## HP-UX Workstation HCL (Hardware Compatibility List) $\rightleftharpoons$ PA-RISC

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## Printing History

This document is cummulative. Each new edition supercedes and replaces all prior revisions for PA-RISC workstations. It is not necessary to archive old editions.

New editions of this manual will incorporate all material updated since the previous edition. The manual data and part number indicate its current edition. The printing data changes when a new edition if printed. (Minor
corrections and updates which are incorporated at reprint do not cause the date to change.) The manual part number changes when extensive technical changes are incorporated.

Printing/Rendering History

| Edition Date | Number | Comments |
| :---: | :---: | :---: |
| 19 Jul 1991 | Edition 1 | First Edition (HP-TAG) |
| 21 Feb 1992 | Edition 2 | Models 705 and 710, HP-UX 8.05/8.07 |
| 10 Aug 1992 | Edition 3 | Upgrades |
| 15 Jan 1993 | Edition 4 | Models 715, 725, 735, 745i and 747i, HP-UX 9.0 |
| 01 Jun 1993 | Edition 5 | HP-UX 9.03, Document converted to Interleaf |
| 16 Jun 1994 | Edition 6 | Models 712, 715-64/80/100, 743i, 748i and 725/100, HP-UX 9.05 |
| 01 Jun 1995 | Edition 7 | Converted back into HP-TAG and revised to HP-UX 10.x. Added: 712/100, J200, J210 |
| 01 May 1996 | Edition 8 | Converted to FrameMaker (to support .PDF). New hardware includes C-Class and B-Class. |
| 01 Mar 1997 | Edition 9 | Added new B-Class, C-Class, J-Class models, K-Class Technical Servers, EPS20, 748i/132L and HP-UX 10.20. All "Series 700" references changed to"PA-RISC Workstation". |
| 14 Apr 1997 | Edition 10 | Added Topical, Product Number and Model Number/Name indicies. |
| 18 Jul 1997 | Edition 11 | Added Appendix A (Product Illustrations) |
| 01 Sep 1997 | Edition 12 | Added Appendix B (I/O card illus.), new processor info, Models B132L+, B180L, C200, C240se, 744/165L, 748/165L |
| 01 Oct 1997 | Edition 13 | Renamed to "HCL". Began adding HP-UX 11.0 support info (not yet complete) |
| 23 Jul 1998 | Edition 14 | Converted to Typel fonts. Re-sized to 8.27-inch wide (for European A4 compatibility). Added J2240, more 11.0 information. Changed email contact. |

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## Introduction

This document summarizes the compatibility of component products available for Hewlett-Packard HP 9000 PA-RISC Workstations, including:

- HP 9000 Series 700, including VME and VXI models
- B-Class
- C-Class
- EPS (K-Class) Clusters
- J-Class
- K-Class Cluster Node
- K-Class Workstations ${ }^{1}$
- MPS Clusters
- TelePACE
- VISUALIZE Workstations ...and excluding:
- HP Kayak X-series
- HP Vectra X-series
- HP 9000 Series 200


## System Support

Unless otherwise stated, supported devices are considered supported by the Workstation System Division (WSY) of Hewlett-Packard.

- HP 9000 Series 300
- HP 9000 Series 400
- HP 9000 Series 500
- HP 9000 Series 700rt
- HP 9000 Series $800^{2}$
- HP 9000 Series 900 .

For detailed support information, consult Installing Peripherals (HP part no. B2355-90006).
To be supported, a device must be qualified on the computer model being considered and have software support on the operating system being considered. This means the device must appear in the appropriate column under Hardware Support and HP-UX Support. For software support, the tables show the earliest system version available for HP 9000 Workstations.

Issues concerning these devices are covered by system hardware support contract, and any questions or
tials of the HP entity supporting the device. Support contact information for those HP entities is given below.

This document lists many HPbranded devices normally sold to OEM customers, but which often find their way into retail channels. A few are considered supported by an ISV/

In general, later versions of the operating system also support the device, until that device exits its own support life. When devices exit their support life, the matrix will document them as "unsupported", but will note their functional status.

The status of configurations "planned" and "under investigation" may change within 30 days. Contact your HP Sales Representative for current information.

This document provide little cabling information and no detailed configuration information, such as switch settings and driver setup.

## Vendor Support

Some devices are not supported by WSY, but are supported by the device supplier, which may be an independent hardware vendor (IHV), independent software vendor (ISV) or another division of Hewlett-Packard. Where this is the case, the tables prefix the support status with "Vendor:" or "HP-ABC:", where "ABC" is the ini-
problems concerning these devices are eligible for resolution by a Hewlett-Packard Response Center.

IHV or the supplying HP division, but most are not supported by WSY, reseller claims to the contrary notwithstanding. This document, to the extent possible, describes what is known about the use of these devices on HP 9000 Workstation systems.

## HP Entity Support

Where a device is not supported by the system (by WSY), but rather by a specific HP division or entity, the following table provides contact information for each listed entity.

HP Entity Support Contacts

| Abbrev. | Entity Name | Devices | Contact Information |
| :--- | :--- | :--- | :--- |
| CPO | Computer Peripherals Operation | DesignJet, DeskJet, JetDirect, LaserJet, OfficeJet, ScanJet | $208-323-2551$ |
| ISG | Information Storage Group | SureStore (CDR, disk, DDS/DAT, MO) | $970-635-1500$ |
| LPO | Local Products Organisation | As required by local market conditions | Region-dependent |
| PCG | Personal Computer Group | PowerWise $e^{\circ}$ UPS - Note: support for this product line transfered to APC, (401) 789- <br> 5735 | 970-635-1500 |

Introduction Footnotes:

1. K-Class Servers may be converted to Graphics Workstation configuration but may first need to be upgraded, as a Server, to the same workstation

Model number). The upgrade and conversion products are not listed in this document.
2. Although certain HP 9000 Models 825, 834,835 and 845 were PA-RISC workstations, all support for them ceased at HP-UX 8.0, and their supported components and devices are not covered by this document.

## Document Links

This document is available electronically, in Acrobat (.PDF, 3.0) form, at URL: ftp://contrib:9unsupp8@hprc.external.hp.com/supguides/workstations/

## System Processors

The following table lists several characteristics of each PA-RISC Workstation processor Model and the minimum operating system supported on each processor type. All later revisions are supported unless a

## Processor Technologies

Support for some devices is linked to processor families.

The following table references the published processor family designation (e.g. PA-7100) to the HP internal code name (e.g. PCX-T) that has appeared in a few prior editions of this document.
range (e.g. 8.0-9.05) is shown. A " $\perp$ " symbol denotes a gap in revision support.
This edition of this document covers only the processor models listed in the following table. The phrase "All

## PA-RISC Processor

## Technology Families

| Processor <br> Model | Internal Code Name |
| :--- | :--- |
| PA-7000 | PCX-S |
| PA-7100, <br> PA-7150 | PCX-T |
| PA-7100LC | PCX-L |
| PA-7200, <br> PA-7250 | PCX-T |
| PA-7300LC | PCX-L2 |
| PA-8000 | PCX-U |
| PA-8200 | PCX-U+ |
| PA-8500 | PCX-W |

## System Processor Support by Model Number

In general, all PA-RISC workstations that are still active products, mature products, or discontinued products (but still within their guaranteed minimum hardware support life) are supported through HP-UX release 10.20.

Workstation Models 825, 834, 835 and 845 have reached the end of their support lives, as have a few Series 700 system processor units.

Models" refers to these processors, and no others.

Make no assumptions about support for any newer systems not listed in this edition.

Refer to the Processor Support by Product Number table for details on specific SPUs.

System Processor Support by Model Number

| SPU Model and <br> [CPU Clock Rate] | PA-RISC <br> Processor | PA-RISC <br> Object <br> Binary <br> Support | HP-UX Stand- <br> Alone Support | HP-UX Diskless ${ }^{3}$ <br> Server Support | HP-UX Diskless <br> Client Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| B132L | $[/ 132]$ | 1 @ PA-7300LC | 1.1 | $10.20-11.0 / 32$ | $10.20 \nabla$ |

## System Processor Support by Model Number

| SPU Model and [CPU Clock Rate] |  | PA-RISC <br> Processor | PA-RISC <br> Object <br> Binary <br> Support | HP-UX StandAlone Support | HP-UX Diskless ${ }^{3}$ <br> Server Support | HP-UX Diskless Client Support |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C100 | [/100] | 1 @ PA-7200 | 1.1 | 9.05 ${ }^{4}-9.07 \perp 10.01-11.0 / 32$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $\mathrm{Cl10}$ | [/120] | 1 @ PA-7200 | 1.1 | 9.05 ${ }^{4}-9.07 \perp 10.01-11.0 / 32$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| C160 | [/160] | 1 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | 10.20V | $10.20 \mathrm{\nabla}$ |
| C160L | [/160] | 1 @ PA-7300LC | 1.1, 2.0 | 10.20-11.0/32 | 10.20V | 10.20 V |
| C180-XP | [/180] | 1 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | 10.20 V | $10.20 \nabla$ |
| C200 | [/200] | 1 @ PA-8200 | 1.1, 2.0 | 10.20-11.0 | 10.20+ACE $\nabla$ | 10.20+ACE $\nabla$ |
| C240 | [/236] | 1 @ PA-8200 | 1.1, 2.0 | 10.20-11.0 | 10.20+ACE $\nabla$ | 10.20+ACE $\nabla$ |
| EPS10 | [/100] | _ @ PA-7200 | 1.1 | 10.01-11.0/32 | 10.01 | N/A |
| EPS20 | [/120] | _ @ PA-7200 | 1.1 | 10.01-11.0/32 | 10.01 | N/A |
| J200 ${ }^{\circ}$ | [/100] | 1,2 @ PA-7200 | 1.1 | 9.054-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| J210 ${ }^{\circ}$ | [/120] | 1,2 @ PA-7200 | 1.1 | 9.05 ${ }^{4}-11.0 / 32$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| J210XC ${ }^{\circ}$ | [/120] | 1,2 @ PA-7200 | 1.1 | 9.05 ${ }^{4}-11.0 / 32$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| J280 ${ }^{\circ}$ | [/180] | 1 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | $10.20 \mathrm{\nabla}$ | 10.20 V |
| J282 | [/180] | 1,2 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | $10.20 \mathrm{\nabla}$ | 10.20 V |
| J2240 | [/240] | 2 @ PA-8200 | 1.1, 2.0 | 10.20-11.0 | 10.20+ACE $\nabla$ | 10.20+ACE $\nabla$ |
| K210 | [/120] | _ @ PA-7200 | 1.1 | 10.01-11.0 | 10.01 | N/A |
| K260-EG | [/180] | 1-4 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | 10.20 | N/A |
| K410 | [/120] | _ @ PA-7200 | 1.1 | 10.01-11.0/32 | 10.01 | N/A |
| K420 <br> Cluster Node | [/120] | 1-4@ PA-7200 | 1.1 | 10.01-11.0/32 | 10.01 | N/A |
| K460-EG | [/180] | 1-4 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | 10.20 | N/A |
| K460-XP | [/180] | 1-4 @ PA-8000 | 1.1, 2.0 | 10.20-11.0 | 10.20 | N/A |
| MPS $10^{5}$ | [/125] | 1 @ PA-7150 | 1.1 | 9.01-9.07 $\perp 10.01-10.10$ | N/A | N/A |
| TelePACE ${ }^{6}$ |  | 1 @ PA-7IOOLC | 1.1 | 9.05 | 9.05 | 9.05 |
| $705^{7}$ | [/33] | 1 @ PA-7000 | 1.1 | $8.07-9.07 \perp 10.01-10.20 \nabla$ | $8.07-9.07 \perp 10.01-10.20 \nabla$ | $8.07-9.07 \perp 10.01-10.20 \nabla$ |
| $710^{\circ 8}$ | [/50] | 1 @ PA-7000 | 1.1 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| 712/60 |  | 1 @ PA-7IOOLC | 1.1 | 9.03-11.0/32 | $9.03-9.07 \perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| $712 / 80^{9}$ |  | 1 @ PA-7IOOLC | 1.1 | 9.03-11.0/32 | 9.03-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| 712/100 |  | 1 @ PA-7I00LC | 1.1 | 9.03-11.0/32 | 9.03-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/33 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| $7155^{10}$ | [/33] | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 0.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| $715{ }^{10}$ | [/33 | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/50 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| $715 s^{10}$ | [/50] | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| $715{ }^{10}$ | [/50] | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/64 ${ }^{\circ}$ |  | 1 @ PA-7100LC | 1.1 | 9.05-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |

## System Processor Support by Model Number

| $\begin{gathered} \text { SPU } \\ \text { ICPU } \end{gathered}$ |  | PA-RISC <br> Processor | PA-RISC <br> Object <br> Binary <br> Support | HP-UX StandAlone Support | HP-UX Diskless ${ }^{3}$ Server Support | HP-UX Diskless Client Support |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 715/75 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | 9.0-10.20 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/80 ${ }^{\circ}$ |  | 1 @ PA-7100LC | 1.1 | 9.05-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/100 ${ }^{\circ}$ |  | 1 @ PA-7IOOLC | 1.1 | 9.05-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| 715/100XC ${ }^{\circ}$ |  | 1 @ PA-7100LC | 1.1 | 9.05-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $720^{\circ}$ | [/50] | 1 @ PA-7000 | 1.1 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| 725/50 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | 9.0-10.20V | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| 725/75 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | $9.0-10.20 \nabla$ | $9.0-9.07 \perp 10.01-10.20 \nabla$ | $9.0-9.07 \perp 10.01-10.20 \nabla$ |
| 725/100 ${ }^{\circ}$ |  | 1 @ PA-7100LC | 1.1 | 9.0-11.0/32 | 9.05-9.07 $\perp 10.01-10.20 \nabla$ | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $730^{\circ}$ | [/66] | 1 @ PA-7000 | 1.1 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $735^{\circ}$ | [/99] | 1 @ PA-7100 | 1.1 | 9.0-10.20V | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| $735 \mathrm{CL}^{\circ}$ | [/99] | 1 @ PA-7100 | 1.1 | 9.01-9.07 $\perp 10.01$ | N/A | N/A |
| 735/125 ${ }^{\circ}$ |  | 1 @ PA-7150 | 1.1 | 9.0-10.20V | 9.03-9.07 $\perp 10.01-10.20 \nabla$ | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| 735CL/125 ${ }^{\circ}$ |  | 1 @ PA-7150 | 1.1 | $9.01-9.07 \perp 10.01$ | N/A | N/A |
| $742{ }^{11}$ | [/50] | 1 @ PA-7100 | 1.1 | $9.05-9.07 \perp 10.10-10.20 \nabla$ | N/A | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| 743il/64 |  | 1 @ PA-7IOOLC | 1.1 | $9.05-9.07 \perp 10.10-11.0 / 32$ | N/A | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| 743il/100 |  | 1 @ PA-7IOOLC | 1.1 | $9.05-9.07 \perp 10.10-11.0 / 32$ | N/A | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| V743 ${ }^{11} / 64$ |  | 1 @ PA-7100LC | 1.1 | $9.05-9.07 \perp 10.10-10.20$ | N/A | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| V743 ${ }^{11 / 100}$ |  | 1 @ PA-7IOOLC | 1.1 | 9.05-9.07 $\perp 10.10-10.20$ | N/A | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| 744/132L |  | 1 @ PA-7300LC | 1.1 | 10.20-11.0/32 | 10.20 V | 10.20 F |
| 744/165L |  | 1 @ PA-7300LC | 1.1 | 10.20-11.0/32 | 10.20 V | 10.20 F |
| 745i/50 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | $9.0-9.07 \perp 10.10-10.20 \nabla$ | 9.0-9.07 $\perp 10.10-10.20 \nabla$ | 9.0-9.07 $\perp 10.10-10.20 \nabla$ |
| 745i/100 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | $9.0-9.07 \perp 10.10-10.20 \nabla$ | $9.0-9.07 \perp 10.10-10.20 \nabla$ | $9.0-9.07 \perp 10.10-10.20 \nabla$ |
| 745/132L |  | 1 @ PA-7300LC | 1.1 | 10.20-11.0/32 | 10.20 - | 10.20 V |
| 747i/50 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | $9.0-9.07 \perp 10.10-10.20 \nabla$ | $9.0-9.07 \perp 10.10-10.20 \nabla$ | $9.0-9.07 \perp 10.10-10.20 \nabla$ |
| 747i/100 ${ }^{\circ}$ |  | 1 @ PA-7100 | 1.1 | $9.0-9.07 \perp 10.10-10.20 \nabla$ | 9.0-9.07 $\perp 10.10-10.20 \nabla$ | $9.0-9.07 \perp 10.10-10.20 \nabla$ |
| 748i/64 |  | 1 @ PA-7IOOLC | 1.1 | $9.05-9.07 \perp 10.10-11.0 / 32 \nabla$ | 9.05-9.07 $\perp 10.10-10.20 \nabla$ | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| 748i/100 |  | 1 @ PA-7IOOLC | 1.1 | 9.05-9.07 $\perp 10.10-11.0 / 32 \nabla$ | 9.05-9.07 $\perp 10.10-10.20 \nabla$ | 9.05-9.07 $\perp 10.10-10.20 \nabla$ |
| 748/132L |  | 1 @ PA-7300LC | 1.1 | 10.20-11.0/32 | 10.20 V | 10.20 V |
| 748/165L |  | 1 @ PA-7300LC | 1.1 | 10.20-11.0/32 | 10.20 - | 10.20 - |
| $750^{\circ}$ | [/66] | 1 @ PA-7000 | 1.1 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $755^{\circ}$ | [/99] | 1 @ PA-7100 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | $9.0-9.07 \perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| 755/125 ${ }^{\circ}$ |  | 1 @ PA-7150 | 1.1 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| $825^{\circ 012}$ | [/25] | 1 @ PN-5 | 1.0 | 1.0-8.0 | N/A | N/A |
| $834 \mathrm{CH}^{\circ 012}$ | [/30] | 1 @ PN-5 | 1.0 | 7.0-8.0 | N/A | N/A |
| $835^{0012}$ | [/30] | 1 @ PN-5 | 1.0 | 2.1-8.0 | N/A | N/A |
| $845^{\text {ool2 }}$ | [/30] | 1 @ PN-10 | 1.0 | 7.1-8.0จ | N/A | N/A |

## Processor Model Notes:

3. Diskless support is via HP-UX Diskless (aka "DUX") through release 9.07, and via NFS Diskless from release 10.01 forward. Release 10.0 does not support diskless operation. Migration from DUX to NFS diskless requires 10.10 .
4. HP-UX 9.05 and 9.07 support singleprocessor operation only on this Model. Symmetric Multi-Processor (SMP) support requires 10.0 or later.
5. Formerly the Model 735CL/125.
6. TelePACE is a 48 Vdc variant of the Model 748i. For device support purposes, it is identical to a $748 \mathrm{i} / 100$.
7. For HP-UX 9.0-9.07, the following configurations require at least 16 Mbytes RAM: Stand-alone, Diskless Server, VUE, Motif, Starbase, PHIGS and with any local mass-storage or
external peripherals. HP-UX 10.01 and later require 16 MB for all configurations.
8. Model $425 \mathrm{e}^{\circ}$ computer upgraded to Model $710^{\circ}$ is treated generally the same as any 710 for hardware support purposes. Model 425e peripherals are supported only for upgraded systems, the processor notation 710 e is used.
9. Formerly known as the 712/80i. Any remaining "80i" models which have not been upgraded to " 80 " may be treated as 712/80 for support purposes.
10. A Model $433 s^{\circ}$ or Model $433 t^{\circ}$ computer upgraded to Model $715^{\circ}$ is treated generally the same as a 715/ $33^{\circ}$ or $715 / 50^{\circ}$ for hardware support purposes. Where existing Model

433s/t peripherals are supported only for upgraded systems, the table entry will specifically list the $715 s^{\circ}$ and $715 t^{\circ}$ Models.
11. The Model 742rt, 743rt, 744rt and their associated HP-RT operating system are not covered by this document.
12. Although certain HP 9000 Models $825,834,835$ and 845 were PA-RISC workstations, all support for them ceased at HP-UX 8.0, and their supported components and devices are not covered by this document.

Model 825, 835 and 845 could be converted to servers; however, the last supported HP-UX for those servers was 10.10 .

## Processor Support by Product Number

"Type" denotes the style of the processor's external cabinetry.
"Desktop" models may be floormounted using the included adaptor base.
"Deskside" models are designed only for operation in vertical orientation.
"Rackable" models are Deskside models for which a support rack is available.
"Server" models include a rack.

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A1926A ${ }^{\circ 0}$ | Model 720 PersonalVRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1927A ${ }^{\circ}$ | Model 720 PersonalVRX, 2x210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1928A ${ }^{\circ 0}$ | Model 720 GRX diskless | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1929A ${ }^{\circ}$ | Model 720 GRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1930A ${ }^{\circ}$ | Model 720 CRX, 2x210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $\mathrm{Al931}^{\circ 0}$ | Model 720 CRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1932A ${ }^{\circ 0}$ | Model 720 CRX diskless | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1933A ${ }^{\circ}$ | Model 720 CRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1935A ${ }^{\circ}$ | Model 720 PersonalVRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1936A ${ }^{\circ 0}$ | Model 720 GRX, 2x210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1937A ${ }^{\circ 0}$ | Model 720 GRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1938A ${ }^{\circ}$ | Model 720 TurboVRX T2, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1939A ${ }^{\circ}$ | Model 720 TurboVRX T4, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1941A ${ }^{\circ 0}$ | Model 720 TurboVRX T2, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1943A ${ }^{\circ 0}$ | Model 720 TurboVRX T4, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1944A ${ }^{\circ}$ | Model 720 Server, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1945A ${ }^{\circ 0}$ | Model 730 GRX, 210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1946A ${ }^{\circ}$ | Model 730 GRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1947A ${ }^{\circ 0}$ | Model 730 CRX, 2x210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1948 ${ }^{\circ 0}$ | Model 730 CRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1949A ${ }^{\circ}$ | Model 730 CRX, 210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $\mathrm{Al}^{\text {1950A }}$ | Model 730 CRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $\mathrm{Al}^{\text {1951A }}{ }^{\circ 0}$ | Model 730 PersonalVRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1952A ${ }^{\circ 0}$ | Model 730 PersonalVRX, 2x210 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1953A ${ }^{\circ 0}$ | Model 730 PersonalVRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1954A ${ }^{\circ}$ | Model 730 TurboVRX T2, 2x420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1955A ${ }^{\circ 0}$ | Model 730 TurboVRX T4, 2x420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1956A ${ }^{\circ 0}$ | Model 730 Server, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1958A ${ }^{\circ 0}$ | Model 730 GRX, 2x210 Mbyte | DeskTop | Any | $8.05-9.07 \perp 10.01-10.20 \nabla$ |
| A1959A $^{\circ 0}$ | Model 730 GRX, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
|  | Model 730 TurboVRX T2, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| $\mathrm{Al}^{\text {1961A }}{ }^{\text {oo }}$ | Model 750 CRX, 660 Mbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1962A ${ }^{\circ}$ | Model 750 CRX, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A1963A ${ }^{\circ 0}$ | Model 750 PersonalVRX, 660 Mbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1964A ${ }^{\circ}$ | Model 750 PersonalVRX, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1965A ${ }^{\circ}$ | Model 730 TurboVRX T4, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1969A $^{\circ 0}$ | Model 750 TurboVRX T2, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1970A $^{\circ}$ | Model 750 TurboVRX T4, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1971A $^{\circ}$ | Model 750 Server, 660 Mbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A1977A $^{\circ}$ | Model 750 Server, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2060A ${ }^{\circ}$ | Model 715/64 TCO | DeskTop | 2.7 | 9.05-11.0/32 |
| ${\mathrm{A} 2061 \mathrm{~A}^{\circ}}$ | Model 715/80 TCO | DeskTop | 2.7 | 9.05-11.0/32 |
| A2062A ${ }^{\circ}$ | Model 715/100 TCO | DeskTop | 2.7 | 9.05-11.0/32 |
| A2063A ${ }^{\circ}$ | Model 715/100XC TCO | DeskTop | 2.7 | 9.05-11.0/32 |
| A2208A ${ }^{\circ}$ | Model 710 grey, diskless | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2209A ${ }^{\circ}$ | Model 710 grey, 420 Mbyte, flex. | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2210A ${ }^{\circ}$ | Model 7101024 color, diskless | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2211A ${ }^{\circ}$ | Model 7101024 color, 420 Mbyte | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2212A ${ }^{\circ}$ | Model 710 grey, 420 Mbyte | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2213A ${ }^{\circ}$ | Model 7101280 color, diskless | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2214A ${ }^{\circ}$ | Model 7101280 color, 420 Mbyte | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2215A ${ }^{\circ}$ | Model 7101280 color, 840 Mbyte | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2222A ${ }^{\circ}$ | Model 7101280 color, 420 Mbyte, DDS | DeskTop | 2.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| ${\mathrm{A} 2260 \mathrm{~A}^{\circ}}^{\circ}$ | Model 742i[/50], 16 MB RAM | VME Board | Any |  |
| A2263A ${ }^{\circ}$ | Model 720 CRX-24, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2264A ${ }^{\circ}$ | Model 720 CRX-24Z, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2265A ${ }^{\circ}$ | Model 730 CRX-24, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2266A ${ }^{\circ}$ | Model 730 CRX-24Z, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2267A ${ }^{\circ}$ | Model 750 CRX-24, 1.3 Gbyte | DeskSide | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2268A ${ }^{\circ 0}$ | Model 750 CRX-24Z, 1.3 Gbyte | DeskSide | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2276A ${ }^{\circ}$ | Model 730 TurboVRX T4, 420 Mbyte | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2277A ${ }^{\circ}$ | Model 730 Dual CRX, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2277B ${ }^{\circ}$ | Model 730 Dual CRX, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2278A ${ }^{\circ}$ | Model 750 CRX, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2279A ${ }^{\circ}$ | Model 720 Dual CRX, 420 Mbyte | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2281A ${ }^{\circ}$ | Model 750 TurboVRX T4, 1.3 Gbyte | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| ${\mathrm{A} 2282 \mathrm{~A}^{\circ}}^{\circ}$ | Model 750 Dual CRX, 1.3 Gbyte | DeskSide | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2282B ${ }^{\circ}$ | Model 750 Dual CRX, 1.3 Gbyte | DeskSide | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2283A ${ }^{\circ}$ | Model 750 Server, 1.3 Gbyte, DDS, CD-ROM | DeskSide | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2284A ${ }^{\circ}$ | Model 730 Server, 2x420 Mbyte, DDS, CD-ROM | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2286A ${ }^{\circ}$ | Model 720 Server, 420 Mbyte, DDS, CD-ROM | DeskTop | Any | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2289A ${ }^{\circ}$ | Model 705 Grayscale | DeskTop | 2.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2551A ${ }^{\circ}$ | Model 755CRX, 19-in. 1280x1024 color, 2.0Gb, 64Mb | DeskSide | 1.1 | 9.0-10.20V |

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A2552A ${ }^{\circ}$ | Model 755CRX-24, 19-in. 1280x1024 color, 2.0Gb, 64Mb | DeskSide | 1.1 | 9.0-10.20 |
| A2553A ${ }^{\circ}$ | Model 755CRX-24Z, 19-in. 1280x1024 color, 2.0Gb, 64Mb | DeskSide | 1.1 | 9.0-10.20V |
| A2600A ${ }^{\circ}$ | Model 735GRX, 19-in. $1280 \times 1024$ gray, $525 \mathrm{Mb}, 32 \mathrm{Mb}$ | Desktop | 1.1 | 9.0-10.20 |
| A2601A ${ }^{\circ}$ | Model 735CRX, 19-in. $1280 \times 1024$ color, $525 \mathrm{Mb}, 32 \mathrm{Mb}$ | Desktop | 1.1 | 9.0-10.20 |
| A2602A ${ }^{\circ}$ | Model 735CRX-24, 19-in. 1280x1024 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2603A ${ }^{\circ}$ | Model 735CRX-24Z, 19-in. 1280x1024 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2607A ${ }^{\circ}$ | Model 735 Dual CRX, 2x19-in. 1280 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2608A ${ }^{\circ}$ | Model 735CRX, 19-in. 1280x1024 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20V |
| A2609A ${ }^{\circ}$ | Model 735CRX-48Z, 19-in. 1280x1024 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2610A ${ }^{\circ}$ | Model 715/33, 19-in. 1280x1024 gray, diskless | DeskTop | 1.1 | 9.0-10.20 |
| A2611A ${ }^{\circ}$ | Model 715/33, 15-in. 1024x768x8 color, 16MB, 525MB | DeskTop | 1.1 | 9.0-10.20V |
| A2612A ${ }^{\circ}$ | Model 715/33, 17-in. 1024x768 color, diskless | DeskTop | 1.1 | 9.0-10.20V |
| A2613A ${ }^{\circ}$ | Model 715/33, 19-in. 1280x1024 color, 525Mb | DeskTop | 1.1 | 9.0-10.20 |
| A2614A ${ }^{\circ}$ | Model 715/33, 19-in. 1280x1024 gray, 525Mb | DeskTop | 1.1 | 9.0-10.20 |
| A2616A ${ }^{\circ}$ | Model 715/33, 17-in. 1024x768 color, 525Mb, floppy | DeskTop | 1.1 | 9.0-10.20 |
| A2617A ${ }^{\circ}$ | Model 715/33, 19-in. 1280x1024 color, 525Mb, 16Mb | DeskTop | 1.1 | 9.0-10.20V |
| A2618A ${ }^{\circ}$ | Model 715/33, 19-in. 1280x1024 color, 525Mb, 32Mb | DeskTop | 1.1 | 9.0-10.20V |
| A2619A ${ }^{\circ}$ | Model 715/33, 19-in. color, 1.0Gb | DeskTop | 1.1 | 9.0-10.20V |
| A2620A ${ }^{\circ}$ | Model 715/33 CRX-24, 19-in. 1280x1024 color, 525 Mb | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2621A ${ }^{\circ}$ | Model 715/33 CRX-24Z, 19-in. 1280x1024 color, 525 Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2625A ${ }^{\circ}$ | Model 715/50, 19-in. 1280x1024 gray, 525Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2627A ${ }^{\circ}$ | Model 715/50, 19-in. 1280x1024 color, 525 Mb , 16Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2629A ${ }^{\circ}$ | Model 715/50, 19-in. 1280x1024 color, 525 Mb , 16Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2630A ${ }^{\circ}$ | Model 715/50, 19-in. 1280x1024 color, 525Mb, 32Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2631A ${ }^{\circ}$ | Model 715/50, 19-in. color, 1.0Gb, 32Mb | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2632A ${ }^{\circ}$ | Model 715/50, 19-in. color, 1.0Gb, DDS-DC | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2633A ${ }^{\circ}$ | Model 715/50 CRX-24, 19-in. 1280 color, $525 \mathrm{Mb}, 16 \mathrm{Mb}$ | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2634A ${ }^{\circ}$ | Model 715/50 CRX-24Z, 19-in. 1280 color, $525 \mathrm{Mb}, 16 \mathrm{Mb}$ | DeskTop | 1.1 | $9.0-10.20 \mathrm{~V}$ |
| A2635A ${ }^{\circ}$ | Model 715/50 CRX-48Z, 19-in. 1280 color, $525 \mathrm{Mb}, 16 \mathrm{Mb}$ | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2637A ${ }^{\circ}$ | Model 745i, 16 MB, 17;-in. color | Rack | Any | $9.0-10.20 \nabla$ |
| A2637B ${ }^{\circ}$ | Model 745i/50 16 MB, 15;-in. color | Rack | Any | $9.0-10.20 \mathrm{~V}$ |
| ${\mathrm{A} 2638 \mathrm{~A}^{\circ}}$ | Model 745i, 16 MB, 15;-in. color | Rack | Any | $9.0-10.20 \mathrm{~V}$ |
| A2638B | Model 745i/50, 16 MB , 15;-in. color | Rack | Any | $9.0-10.20 \mathrm{~V}$ |
| A2639A ${ }^{\circ}$ | Model 747i16 MB, 14;-in. color | Rack | Any | $9.0-10.20 \mathrm{~V}$ |
| A2639B | Model 747i/50 16 MB, 15;-in. color | Rack | Any | 9.0-10.20 |
| A2648A ${ }^{\circ}$ | Model 705 Color 1024, 16-inch | DeskTop | 2.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2648B ${ }^{\circ}$ | Model 705 Color 1024, 16-inch | DeskTop | 2.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2649A ${ }^{\circ}$ | Model 705 Color 1280, 19-inch | DeskTop | 2.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2649B ${ }^{\circ}$ | Model 705 Color 1280, 19-inch | DeskTop | 2.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2649C ${ }^{\circ}$ | Model 705 Color 1280, 19-inch | DeskTop | 2.0 | 8.07-9.07 $\perp$ 10.01-10.20 |

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A2650A ${ }^{\circ}$ | Model 755CRX-48Z, 19-in. 1280x1024 color, 2.0Gb, 64Mb | DeskSide | 1.1 | 9.0-10.20 |
| A2652A ${ }^{\circ}$ | Model 755 Dual CRX, dual 20-in., 1280 color, 2.0Gb, 64Mb | DeskSide | 1.1 | 9.0-10.20V |
| A2659A ${ }^{\circ}$ | Model 735GRX, 19-in. 1280x1024 gray, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2685A ${ }^{\circ}$ | Model 725/50, 19-in. $1280 \times 1024$ gray, $525 \mathrm{Mb}, 32 \mathrm{Mb}$ | Desktop | 1.1 | 9.0-10.20 |
| A2689A ${ }^{\circ}$ | Model 725/50, 19-in. 1280x1024 color, 525Mb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A26914 ${ }^{\circ}$ | Model 725/50 CRX24, 19-in. 1280 color, 1.0Gb, 32Mb | Desktop | 1.1 | 9.0-10.20 |
| A2692A ${ }^{\circ}$ | Model 725/50 CRX24Z, 19-in. 1280 color, 1.0Gb, 32Mb | Desktop | 1.1 | $9.0-10.20 \nabla$ |
| A2693A ${ }^{\circ}$ | Model 725/50 CRX48Z, 19-in. 1280 color, 1.0Gb, 32Mb | Desktop | 1.1 | $9.0-10.20 \nabla$ |
| A2695A ${ }^{\circ}$ | Model 725/50 diskless | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2696A ${ }^{\circ}$ | Model 725/50 SPU only | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2823A ${ }^{\circ}$ | Model 715/33 diskless | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2824A ${ }^{\circ}$ | Model 715/50 diskless | DeskTop | 1.1 | 9.0-10.20 |
| A2825A ${ }^{\circ}$ | Model 715/33 SPU only | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2826A ${ }^{\circ}$ | Model 715/50 SPU only | DeskTop | 1.1 | $9.0-10.20 \nabla$ |
| A2876A ${ }^{\circ}$ | Model J280, OMB, no graphics | DeskSide | Any | 10.20-11.0 |
| A2896A ${ }^{\circ}$ | Model 715/75 SPU, 32 MB RAM | DeskTop | 1.2 | 9.0-10.20 |
| A2897A ${ }^{\circ}$ | Model 725/75 SPU, 32 MB RAM | DeskTop | 1.2 | 9.0-10.20 |
| A3222A | Model K410 Base Node for EPS20 Cluster | Rackable | Any | 10.01 |
| A3409A | EPS20 Base Module | Server |  | 10.01 |
| A3410A | Model K410 Cluster Node for EPS20 | Server |  | 10.01 |
| A3411A | Model K210 Cluster Node for EPS20 | Server |  | 10.01 |
| A3435A | Model K260-EG | Rackable |  | 10.20 |
| A3452A | Model K420 EPS20 Cluster Node | Rackable |  | 10.01 |
| A3489A ${ }^{\circ}$ | Model K460-EG | Rackable |  | $10.20 \mathrm{\nabla}$ |
| A3489B | Model K460-EG | Rackable |  | 10.20 |
| A3533A ${ }^{\circ}$ | Model K460-XP | Rackable |  | $10.20 \mathrm{\nabla}$ |
| A3533B | Model K460-XP | Rackable |  | 10.20 |
| A4010A ${ }^{\circ}$ | Model 712/60, 15-in. $260 \mathrm{MB}^{13}$, 16MB, parchment | DeskTop | Any | 9.03-11.0/32 |
| A4010B ${ }^{\circ}$ | Model 712/60, 15-in. 525 MB , 16MB, parchment | DeskTop | Any | 9.03-11.0/32 |
| A4010C ${ }^{\circ}$ | Model 712/60, 15-in. 1 GB, 16MB, parchment | DeskTop | Any | 9.03-11.0/32 |
| A4010D | Model 712/60, 15-in. 1 GB, 16MB, quartz color | DeskTop | Any | 9.03-11.0/32 |
| A4023A ${ }^{\circ}$ | Model 712/60 Base SPU, parchment | DeskTop | Any | 9.03-11.0/32 |
| A4023D | Model 712/60 Base SPU, quartz | DeskTop | Any | 9.03-11.0/32 |
| A4027A ${ }^{\circ}$ | Model 712/80 ${ }^{14}$ Base SPU, parchment | DeskTop | Any | 9.03-11.0/32 |
| A4027D | Model 712/80 Base SPU, quartz color | DeskTop | Any | 9.03-11.0/32 |
| A4053A ${ }^{\circ}$ | Model 735/125, 32MB | DeskTop | 2.7 | 9.03-9.07 $\perp 10.01-10.20 \nabla$ |
| A4080A ${ }^{\circ}$ | Model J200, OMB, no graphics | DeskSide | Any | $9.05-9.07 \perp 10.01-11.0 / 32$ |
| A4081A ${ }^{\circ}$ | Model J210, OMB, no graphics | DeskSide | Any | $9.05-9.07 \perp 10.01-11.0 / 32$ |
| A4083A ${ }^{\circ}$ | Model 735CL-4 802.3 Cluster | Rack | Any | $9.01-9.07 \perp 10.01-10.10$ |
| A4084A ${ }^{\circ}$ | Model 735CL-8 802.3 Cluster | Rack | Any | $9.01-9.07 \perp 10.01-10.10$ |
| A4085A ${ }^{\circ}$ | Model 735CL-4 FDDI Cluster | Rack | Any | 9.01-9.07 $\perp 10.01-10.10$ |

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A4086A ${ }^{\circ}$ | Model 735CL-8 FDDI Cluster | Rack | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4087A ${ }^{\circ}$ | Model 735 802.3 Cluster Node, 80MB, 1GB | Rack | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4088A ${ }^{\circ}$ | Model 735 FDDI Cluster Node, 80MB, IGB | Rack | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4090A ${ }^{\circ}$ | Model 715/64 SPU, 32 MB RAM | DeskTop | 2.7 | 9.05-11.0/32 |
| A4091A ${ }^{\circ}$ | Model 715/100 SPU, 32 MB RAM | DeskTop | 2.7 | 9.05-11.0/32 |
| A4092A ${ }^{\circ}$ | Model 725/100 SPU, 32 MB RAM | DeskTop | 2.7 | 9.05-11.0/32 |
| A4093A ${ }^{\circ}$ | Model 715/80 SPU, 32 MB RAM | DeskTop | 2.7 | 9.05-11.0/32 |
| A4100A ${ }^{\circ}$ | Model 755/125 SPU, 64 MB RAM | DeskSide | Any | 9.05-10.20 |
| A4152A ${ }^{\circ}$ | Model 735 Terminal Console (for 802.3 735CL) | DeskTop | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4153A ${ }^{\circ}$ | Model 755 Terminal Console (for 802.3 735CL) | DeskSide | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4154A ${ }^{\circ}$ | Model 735 Terminal Console (for FDDI 735CL) | DeskTop | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4155A ${ }^{\circ}$ | Model 755 Terminal Console (for FDDI 735CL) | DeskSide | Any | 9.01-9.07 $\perp 10.01-10.10$ |
| A4157A ${ }^{\circ}$ | Model MPS10 Cluster | Rack | 2.7 | 9.03-9.07 $\perp 10.01-10.10$ |
| A4170A ${ }^{\circ}$ | Model MPS10 735/125 cluster node | Rackable | 2.7 | 9.03-9.07 $\perp 10.01-10.10$ |
| A4172A ${ }^{\circ}$ | Model 735/125 Terminal Console (for MPS10) | DeskTop | 2.7 | 9.01-9.07 $\perp 10.01-10.10$ |
| A4173A ${ }^{\circ}$ | Model 755/125 Terminal Console (for MPS10) | DeskTop | 2.7 | 9.01-9.07 $\perp 10.01-10.10$ |
| A4190A | Model B132L, OMB | DeskTop | Any | 10.20-11.0/32 |
| A4191A | Model B160L, OMB | DeskTop | Any | 10.20-11.0/32 |
| A4200A ${ }^{\circ}$ | Model C100, 100 MHz , 0 MB , no graphics, parchment | DeskTop | Any | $9.05-9.07 \perp 10.01-11.0 / 32$ |
| A4200D | Model C100, 100MHz, 0 MB, no graphics, quartz | DeskTop | Any | $9.05-9.07 \perp 10.01-11.0 / 32$ |
| A4201A ${ }^{\circ}$ | Model C100, 120MHz, 0 MB, no graphics, parchment | DeskTop | Any | $9.05-9.07 \perp 10.01-11.0 / 32$ |
| A4201D | Model C100, 120MHz, 0 MB, no graphics, quartz | DeskTop | Any | 9.05-9.07 $\perp 10.01-11.0 / 32$ |
| A4234A | Model J282, OMB, no graphics | DeskSide | Any | 10.20-11.0จ |
| A4260A | Model 743i, 0 MB | VME 6U | Any | 9.05-9.07 $\perp 10.01-11.0 / 32$ |
| A4261A | Model 743rt | VME 6U | N/A | HP-UX not supported |
| A4290A ${ }^{\circ}$ | Model J200, OMB, no graphics | DeskSide | Any | 9.05-9.07 $\perp 10.01-10.20$ |
| A4310A ${ }^{\circ}$ | Model 748i/64, $32 \mathrm{MB}, 1280 \times 1024 \times 8$, parchment | Rack | Any | 9.05-11.0/32 |
| A4310D | Model 748i/64, $32 \mathrm{MB}, 1280 \times 1024 \times 8$, quartz | Rack | Any | 9.05-11.0/32 |
| A4311A ${ }^{\circ}$ | Model 748i/100, $32 \mathrm{MB}, 1280 \times 1024 \times 8$, parchment | Rack | Any | 9.05-11.0/32 |
| A4311D | Model 748i/100, $32 \mathrm{MB}, 1280 \times 1024 \times 8$, quartz | Rack | Any | 9.05-11.0/32 |
| A4318A | Model C200, OMB, no disk, no graphics | DeskTop | Any | 10.20-11.0/32 |
| $\begin{array}{\|l} \mathrm{A}_{4340 \mathrm{~A}^{\circ}} \\ \mathrm{A}^{\circ} \end{array}$ | Model 715/100XC SPU | DeskTop | Any | 9.05-9.07 $\perp 10.10-11.0 / 32$ |
| A4323A | Model B180L, OMB | DeskTop | Any | 10.20-11.0/32 |
| A4345A ${ }^{\circ}$ | Model 712/100 SPU, parchment | DeskTop | Any | 9.05-11.0/32 |
| A4345D | Model 712/100 SPU, quartz | DeskTop | Any | 9.05-11.0/32 |
| A4458A | Model J2240 SPU, 2 CPUs, no RAM, no disk | DeskSide | Any | 10.20-11.0 |
| A4478A | Second CPU for J210XC | Board | Any | 10.20-11.0/32 |
| A4481A ${ }^{\circ}$ | Model J210XC, OMB, no graphics | DeskSide | Any | 9.05-9.07 $\perp 10.01-11.0 / 32$ |
| A4487A | Model J282 1-way, OMB, no graphics | DeskSide | Any | 10.20-11.0 |
| A4488A | Model J282 2-way, OMB, no graphics | DeskSide | Any | 10.20-11.0 |
| A4491A ${ }^{\circ}$ | Model J210XC, OMB, no graphics | DeskSide | Any | 9.05-9.07 $\perp 10.01-11.0 / 32$ |

Processor Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A4500A | Model 744/132L, OMB, VISUALIZE-EG | VME 6U | Any | 10.20-11.0/32 |
| A4508A | Second CPU for J282 | Board | Any | 10.20-11.0 |
| A4510A | Model 748/132L, 32MB, VISUALIZE-EG | Rack | Any | 10.20-11.0/32 |
| A4511A | Model 744/165L, OMB | VME 6U | Any | 10.20-11.0/32 |
| A4513A | Model 748/165L, OMB, VISUALIZE-EG | Rack | Any | 10.20-11.0/32 |
| A4520A | Model 744rt/132L, OMB, no video | VME 6U | Any | Unsupported |
| A4521A | Model C160L-EG, OMB | DeskTop | Any | 10.20-11.0/32 |
| A4522A | Model C160L, OMB, VISUALIZE-EG | DeskTop | Any | 10.20-11.0/32 |
| A4523A | Model C180-XP, OMB | DeskTop | Any | 10.20-11.0 |
| A4578A | Model B132L+, OMB | DeskTop | Any | 10.20-11.0/32 |
| A4946A | Model C240se, 1GB RAM, 9GB HDD, 12xCD. 20-inch | DeskTop | Any | 10.20-11.0 |
| A4945A | Model C240, 0MB | DeskTop | Any | 10.20-11.0 |
| A4964A | Model 745/132L | Rack | Any | 10.20-11.0/32 |
| B1039A ${ }^{\circ 0}$ | Campus Management Station, (710) 32 MB, 420 MB | DeskTop |  | $8.07-9.07 \perp 10.10-10.20 \nabla$ |
| $\mathrm{BlO}^{\text {1039 }}{ }^{\circ}$ | Campus Management Station, (710) 32 MB, 420 MB | DeskTop |  | $8.07-9.07 \perp 10.10-10.20 \nabla$ |
| B1040A ${ }^{\circ}$ | Enterprise Management Station, (720) 32 MB, 420 MB | DeskTop |  | 8.07-9.07 $\perp 10.10-10.20 \nabla$ |
| B1040B ${ }^{\circ}$ | Enterprise Management Station, (720) 32 MB, 420 MB | DeskTop |  | 8.07-9.07 $\perp 10.10-10.20 \nabla$ |
| C2286A ${ }^{\circ}$ | Model 720 Server, $2 \times 420$ Mbyte, DDS | DeskTop | Any | $8.07-9.07 \perp 10.01-10.20 \nabla$ |
| C2455A ${ }^{\circ}$ | Model 720 Optical Server, 2x420 Mbyte, C1700A, DDS | DeskTop | Any | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| E1497A | v743/64, 0 MB | VXI | Any | 9.05-10.10 |
| E1498A | v743/100, 0 MB | VXI | Any | 9.05-10.10 |
| E4005A ${ }^{\circ}$ | 725/50 (3x7x console) | DeskTop | 1.1 | 9.0-9.07 $\perp 10.01-10.10$ |
| E4005B ${ }^{\circ}$ | 725/50 (3x7x console) | DeskTop | 1.1 | 9.0-9.07 $\perp 10.01-10.10$ |
| E4005C ${ }^{\circ}$ | 725/50 (3x7x console) | DeskTop | 1.1 | 9.0-9.07 $\perp 10.01-10.10$ |
| E4007A ${ }^{\circ}$ | 712/60 (3x7x developer) | DeskTop | Any | 9.03-9.07 $\perp 10.01-10.10$ |
| E4007B | 712/60 (3x7x developer) | DeskTop | Any | 9.03-9.07 $\perp 10.01-10.10$ |
| LI200A | QuickBurst Signal Conversion System (v743/100) | Rack | Any | 10.10 |
| Z7080A | TelePACE, 32MB | Rack | Any | 9.05 |
| Z7655A | Base Station Controller (B-Class) w/ACC card | Rackable | Any | 10.20 |
| Z7718A | Base Station Controller (B-Class) w/o ACC card | Rackable | Any | 10.20 |

## Processor Product Notes:

13. This disk is too small to support selfhosted HP-UX 10.x
14. Formerly known as the 712/80i. Any remaining "80i" models which have not been upgraded to " 80 " may be treated as 712/80i for support purposes.

## Processor Upgrade Support by Product Number

This table includes only upgrades-inplace, and not trade-in upgrades.

System Processor Upgrade Support by Product Number

| Formal Product Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A1957A ${ }^{\circ}$ | Model 730 Upgrade from 720 | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2087A ${ }^{\circ}$ | Model 425e to 710 Upgrade | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2089A ${ }^{\circ}$ | Model 400t/425t to 715t/33 Upgrade | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2090A ${ }^{\circ}$ | Model 400t/425t to 715t/50 Upgrade | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2092A ${ }^{\circ}$ | Model 4xxs to 715s/33 Upgrade | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2093A ${ }^{\circ}$ | Model 4xxs to 715s/50 Upgrade | Parts | 1.0 | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| A2248A ${ }^{\circ}$ | Model 750 to 755/99 Upgrade | Parts | 1.1 | 9.0-10.20 $\overline{7}$ |
| A2248AU ${ }^{\circ}$ | Model 750 to 755/99 Upgrade | Parts | 1.1 | 9.0-10.20 $\overline{7}$ |
| A2605A ${ }^{\circ}$ | Model 720 to 735/99 Upgrade | Parts | 1.1 | 9.0-10.20V |
| A2606A ${ }^{\circ}$ | Model 730 to 735/99 Upgrade | Parts | 1.1 | 9.0-10.20V |
| A2628A | Model 700i50 MHz to 100 MHz Upgrade | Parts | Any | $9.01-9.07 \perp 10.01-10.20 \nabla$ |
| A2647A ${ }^{\circ}$ | Model 705 to 710 Upgrade | Parts | 1.0 | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| A2672A | Model J200 to J280 Upgrade | Parts | Any | 10.20-11.0 |
| A2805A ${ }^{\circ}$ | Model 715/33 to 715/50 Upgrade | Parts | 1.1 | 9.0-10.20 $\overline{\text { d }}$ |
| A2806A ${ }^{\circ}$ | Model 715/33 to 715/75 Upgrade | Parts | Any | $9.0-10.20 \nabla$ |
| A2807A ${ }^{\circ}$ | Model 715/50 to 715/75 Upgrade | Parts | Any | 9.0-10.20 $\overline{\text { d }}$ |
| A2808A ${ }^{\circ}$ | Model 725/50 to 725/75 Upgrade | Parts | Any | 9.0-10.20 $\overline{\text { a }}$ |
| A2835 ${ }^{\circ}$ | Model 705 to 715/50 Upgrade | Parts | 1.1 | 9.0-10.20 |
| A2836A ${ }^{\circ}$ | Model 710 to 715/50 Upgrade | Parts | 1.1 | $9.0-10.20 \nabla$ |
| A2837A ${ }^{\circ}$ | Model 425e to 715/50 Upgrade | Parts | 1.1 | $9.01-10.20 \nabla$ |
| A2992A | Model K420 Memory Extender | Parts |  | 10.01-10.20 |
| A2995A | Model K410 Additional PA-7200 Processor | Parts |  | 10.01-10.20 |
| A3188A | Upgrades to Model K260 from various non-workstation Server models | Parts | N/A | Unsupported as Workstation |
| A4050A ${ }^{\circ}$ | Model 735/99 to 735/125 Upgrade | Parts | 2.7 | $9.01-10.20 \nabla$ |
| A4051A ${ }^{\circ}$ | Model 730 to 735/125 Upgrade | Parts | 2.7 | $9.01-10.20 \mathrm{~V}$ |
| A4052A ${ }^{\circ}$ | Model 720 to 735/125 Upgrade | Parts | 2.7 | $9.01-10.20 \mathrm{~V}$ |
| A4105 ${ }^{\circ}$ | Model 755/99 to 755/125 Upgrade | Parts |  | 9.05-10.20 |
| A4106A ${ }^{\circ}$ | Model 750 to 755/125 Upgrade | Parts |  | $9.05-10.20 \nabla$ |
| A4142A ${ }^{\circ}$ | Model 715/33 to 715/64 Upgrade | Parts |  | 9.05-11.0/32 |
| A4143 ${ }^{\circ}$ | Model 715/33 to 715/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4144 ${ }^{\circ}$ | Model 715/50 to 715/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4145 ${ }^{\circ}$ | Model 715/75 to 715/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4146A ${ }^{\circ}$ | Model 725/50 to 725/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4147 ${ }^{\circ}$ | Model 725/75 to 725/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4148 ${ }^{\circ}$ | Model 715/64 to 715/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4149A ${ }^{\circ}$ | Model 715/80 to 715/100 Upgrade | Parts |  | 9.05-11.0/32 |
| A4150A ${ }^{\circ}$ | Model 735CL to MPS10 Upgrade for 4 nodes | Parts |  | 9.03-9.07 $\perp 10.01$ |
| A4202A | Model C100 to C110 Upgrade | Parts |  | 9.05-9.07 $\perp 10.01-11.0 / 32$ |
| A4221A | Model 712/60 to 712/100 Upgrade | Parts |  | 9.03-11.0/32 |
| A4222A | Model 712/80 to 712/100 Upgrade | Parts |  | 9.03-11.0/32 |

System Processor Upgrade Support by Product Number

| Formal <br> Product <br> Number | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| A4236A | Model 712/60 to 712/80 Upgrade | Parts |  | 9.03-11.0/32 |
| A4237A ${ }^{\circ}$ | Model J280 to J282 (2-way) Upgrade | Parts | Any | 10.20-11.0 |
| A4238A ${ }^{\circ}$ | Model J200/210/210XC to J282 (2-way) Upgrade | Parts | Any | 10.20-11.0 |
| A4277A | Model J200 2nd CPU, PA-7200, 100 MHz | Daughter | Any | 10.01-11.0/32 |
| A4278A | Model J210 2nd CPU, PA-7200, 120 MHz | Daughter | Any | 10.01-11.0/32 |
| A4279A ${ }^{\circ}$ | Model J200 to J210 Upgrade | Parts |  | 9.05-11.0/32 |
| A4299A | Model B132L+ 1MB Level 2 cache | Daughter | Any | 10.20-11.0/32 |
| A4337A ${ }^{\circ}$ | Model 715/64 to 715/100XC Upgrade | Parts |  | 9.05-11.0/32 |
| A4338A ${ }^{\circ}$ | Model 715/80 to 715/100XC Upgrade | Parts |  | 9.05-11.0/32 |
| A4339 ${ }^{\circ}$ | Model 715/100 to 715/100XC Upgrade | Parts |  | 9.05-11.0/32 |
| A4350A | Upgrade Model 748 from fnsSCSI to fwdSCSI | Parts | Any | 9.05-11.0/32 |
| A4476A ${ }^{\circ}$ | Model J200 to 210XC Upgrade | Parts |  | 9.05-11.0/32 |
| A4478A | Model J210XC 2nd CPU, PA-7200, 120 MHz | Daughter | Any | 10.01-11.0/32 |
| A4479A ${ }^{\circ}$ | Model J210 to 210XC Upgrade | Parts |  | 9.05-11.0/32 |
| A4493A ${ }^{\circ}$ | Model J200/210/210XC to J282 (1-way) Upgrade | Parts | Any | 10.20-11.0 |
| A4508A | Second CPU for Model J282 | Parts | Any | 10.20-11.0 |
| $\begin{array}{\|l\|} \hline \text { A4514A } \\ \text { Opt. } 120 \end{array}$ | Upgrade Model 744/132L to 744/165L Upgrade Model 748/132L to 748/165L | Board | Any | 10.20-11.0/32 |
| A4539A | Model B132L/B160L to B180L upgrade | Parts | Any | 10.20-11.0/32 |
| A4580A | Model J210 or J210XC to J280 upgrade | Parts |  | 10.20-11.0 |
| A4943A | Model J282 to J2240 | Exchange | Any | 10.20-11.0 |
| A4947A | Model C200 to C240 upgrade | Parts | Any | 10.20-11.0/32 |

## System Processor Option Support

The following table lists optional features available for one or more HP PA-RISC Workstation processors. Some are also available as fieldupgrade kits, having product numbers, and are listed in the appropriate later sections of this document.

More recent processors have few (or no) formal Options. Optional features for those processors are purchased as separate product numbers. Such products usually also offer an Option 0D1 for factory-installation of that product on a processor.

Unlisted SPU Options below are either transparent to software (e.g. localization) or are supported by all software (e.g. RAM).

## System Processor Option Support

|  | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| Option ADJ | 20-in. 1280x1024 CRT Monitor | RGB | NA | Any |
| Option ADR | 17-in. 1024x768 CRT Monitor | RGB | NA | Any |
| Option ADV | 20-in. 1280x1024 CRT Monitor | RGB | NA | Any |
| Option ALD | Add EISA slot (non-CRX-24 715, 720 only, std on 730, 4 on 750) | VSC | Any | 8.05-10.20 $\overline{\text { l }}$ |
| Option ALE ${ }^{\circ}$ | Add 25525A 8-bit ndSCSI i/f | EISA | Any | $8.05-10.20 \nabla$ |
| Option ALF ${ }^{\circ}$ | Add 25560A High-Speed HP-IB i/f | EISA | Unsup. | $8.05-10.20 \nabla$ |
| Option ALG ${ }^{\circ}$ | Add 25567A 802.3 10Base2/AUI LAN i/f | EISA | Any | 8.05-10.20 |
| Option ALQ ${ }^{\circ}$ | Add FDDI-single interface | EISA | No | 8.07-10.20 |
| Option AL4 ${ }^{\circ}$ | Add ATR/9000 interface | GIO |  | 9.03-9.07 |
| Option AL9 | Pre-select AUI LAN (vs. 10Base2 Thin) | Jumper | Any | 8.05-11.0/32 |
| Option AMB | Add 31⁄2-in. flexible disk | nsSCSI | Unsup. | 8.05-11.0 |
| Option AMG ${ }^{\circ}$ | Add 2nd 1.3 Gbyte disk | nsSCSI | Any | 8.05-11.0 |
| Option AMH ${ }^{\circ}$ | Add 2nd disk, 420 Mbyte | nsSCSI | Any | 8.05-11.0/32 |
| Option AMK ${ }^{\circ}$ | Add 420 Mbyte disk | nsSCSI | Any | 8.07-11.0/32 |
| Option AMW | Add 2.0Gb DDS tape drive, $31 / 2$ inch bezel | nsSCSI | Any | 8.07-11.0/32 |
| Option AMX | Add 2.0Gb+DC DDS tape drive, $31 / 2$ inch bezel | nsSCSI | Any | 9.0-11.0/32 |
| Option AMY | Add 2.0Gb DDS tape drive, $51 / 4$ inch bezel | nsSCSI | Any | 8.07-11.0/32 |
| Option AMZ | Add 2.0Gb+DC DDS tape drive, $51 / 4$ inch bezel | nsSCSI | Any | 9.0-11.0/32 |
| Option AMO ${ }^{\circ}$ | Add 1st disk, 210 Mbyte | nsSCSI | Any | 8.05-10.20 |
| Option AM7 ${ }^{\circ}$ | Add 1.3Gb DDS tape drive | nsSCSI | Any | 8.05-10.20 |
| Option AM8 | Add CD-ROM drive | nsSCSI | Any | 8.05-10.20 |
| Option ANB ${ }^{\circ}$ | 16 MBytes total RAM ( $2 \times 8$ ) | RAM | Any | $9.03-10.01{ }^{16}$ |
| Option ANC ${ }^{\circ}$ | 32 MBytes total RAM (4x8) | RAM | Any | 9.03-10.20 |
| Option AND | Add 48 Mbytes RAM (64 total) | RAM | Any | $8.05{ }^{15}-11.0 / 32$ |
| Option ANE | 64 Mbytes total ECC RAM | var. | Any | 9.0-11.0/32 |
| Option ANF | 24 MBytes total ECC RAM ( $2 \times 8+2 \times 4$ ) | RAM | Any | $9.03-10.01{ }^{16}$ |
| Option ANN | Add 32 Mbytes RAM (64 total) | RAM | Any | $8.05{ }^{15}-11.0$ |
| Option ANQ | Add 64 Mbytes RAM (128 total) | RAM | Any | 8.05-11.0 |
| Option ANS | Subs. 128 Mbytes ECC RAM | RAM | Any | 9.0-11.0 |
| Option ANW | Add 192 Mbytes RAM (256 total) | RAM | Any | 8.05-11.0 |
| Option ANX | Add 320 Mbytes RAM ( 384 total) | RAM | Any | 8.05-11.0 |
| Option ANY | Add 96 Mbytes RAM (128 total) | RAM | Any | 8.05-11.0 |
| Option AN4 ${ }^{\circ}$ | Add 8 Mbytes RAM (24 total) | RAM | Any | $8.05-10.10^{16}$ |

## System Processor Option Support

|  | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| Option AN8 ${ }^{\circ}$ | Add 16 Mbytes RAM (32 total) | RAM | Any | $8.05^{15}-10.20$ |
| Option AQA ${ }^{\circ}$ | CRX-48Z video and 20-in. 1280 Color CRT Monitor | GSC, RGB | Any | 9.05-10.20 |
| Option AQC ${ }^{\circ}$ | GRX video and 19-in. 1280x1024 Gray CRT Monitor | GSC, BNC | Any | $9.05-10.20 \nabla$ |
| Option AQD ${ }^{\circ}$ | CRX-8 video and 20-in. 1280 Color CRT Monitor | GSC, RGB | Any | $9.05-10.20 \nabla$ |
| Option AQF ${ }^{\circ}$ | HCRX-8 Graphics | E-SGC | Any | 9.05-10.20 |
| Option AQG ${ }^{\circ}$ | HCRX-24 Graphics | E-SGC | Any | 9.05-10.20 |
| Option AQH ${ }^{\circ}$ | HCRX-8Z Graphics | E-SGC | Any | 9.05-10.20 |
| Option AQJ ${ }^{\circ}$ | HCRX-24Z Graphics | E-SGC | Any | 9.05-10.20 |
| Option AQK ${ }^{\circ}$ | CRX-48Z Graphics | E-SGC | Any | 9.05-10.20 |
| Option AQM ${ }^{\circ}$ | Dual CRX-8 Video, two 20-in. Color CRT Monitors | E-SGC, 2xRGB | Any | 9.05-10.20 |
| Option AQ2 ${ }^{\circ}$ | 12-in. 1024x768 Color LCD Monitor | RGB | Any | 9.03-10.20 |
| Option AQ3 ${ }^{\circ}$ | 15-in. 1024×768 Color CRT Monitor | RGB | Any | 9.03-10.20 |
| Option AQ4 ${ }^{\circ}$ | 17-in. 1024×768 Color CRT Monitor | RGB | Any | 9.03-10.20 |
| Option AQ5 ${ }^{\circ}$ | 17-in. 1280x1024 Color CRT Monitor | RGB | Any | 9.03-10.20 |
| Option AQ6 ${ }^{\circ}$ | GRX Video, 19-in. 1280x1024 Gray CRT Monitor | GSC, BNC | Any | 9.03-10.20 |
| Option AQ7 | 20-in. 1280x1024 Color CRT Monitor | RGB | Any | 9.05-10.20 |
| Option AQ8 ${ }^{\circ}$ | CRX-24 video and 20-in. 1280 Color CRT Monitor | GSC, RGB | Any | $9.05-10.20 \nabla$ |
| Option AQ9 ${ }^{\circ}$ | CRX-24Z video and 20-in. 1280 Color CRT Monitor | GSC, RGB | Any | 9.05-10.20 |
| Option AQP ${ }^{\circ}$ | Add Freedomi/f | GSC | Any | 9.05-9.07 $\perp 10.01-10.20 \nabla$ |
| Option AQQ | Add texture map memory | Daughter | Any | 10.20 |
| Option AQR | Add video export | GSC | N/A | 10.20 |
| Option ATA ${ }^{\circ}$ | Add 2.0 Gbyte disk | fwdSCSI | Any | 9.0-10.20 |
| Option ATB | Add 1.4 MB flexible disk | nsSCSI | Unsup. | 9.0-10.20 |
| Option ATK ${ }^{\circ}$ | Add 260 MB disk | nsSCSI | Any | 9.0-10.20 |
| Option ATM ${ }^{\circ}$ | Add second 1.0 GB disk | fwdSCSI | Any | 9.0-10.20 |
| Option AT6 | Add 2.0 Gbyte disk | nsSCSI | Any | 9.05-10.20 |
| Option AT7 ${ }^{\circ}$ | Add 1.0 Gbyte disk | nsSCSI | Any | 9.0-10.20 |
| Option AT8 ${ }^{\circ}$ | Add 1.0 Gbyte disk | fwdSCSI | Any | 9.0-10.20 |
| Option AT9 ${ }^{\circ}$ | Add 525 Mbyte disk | nsSCSI | Any | 9.0-10.20 |
| Option UFB | Add 240 Mbytes RAM (256 total) | RAM | Any | 9.0-11.0 |
| Option UFD | Add 448 Mbytes RAM (512 total) | RAM | Any | 9.0-11.0 |
| Option UFE | Add 704 Mbytes RAM (768 total) | RAM | Any | 9.0-11.0 |
| Option UFK | Add 176 Mbytes RAM (208 total) | RAM | Any | 9.0-11.0 |
| Option UFL | Add 368 Mbytes RAM (400 total) | RAM | Any | 9.0-11.0 |
| Option UFM | Add 112 Mbytes RAM (144 total) | RAM | Any | 9.0-11.0 |
| Option UFN | Add 224 Mbytes RAM (256 total) | RAM | Any | 9.0-11.0 |
| Option UFS | 32 MBytes total ECC RAM (2x16) | RAM | Any | 9.03-10.20 |
| Option UFT | Add 32 MB RAM ( $2 \times 32,64$ total) | RAM | Any | 9.03-11.0 |
| Option UFU | Add 128 MB RAM 208 total) | RAM | Any | 9.03-11.0 |
| Option UFV | Add 320 MB RAM 400 total) | RAM | Any | 9.03-11.0 |
| Option UFW | Add 64 MB RAM 144 total) | RAM | Any | 9.03-11.0 |
| Option UGA | Add second serial port | GIO | Unsup. | 9.03-10.20 |

System Processor Option Support

|  | Abbreviated Product Description | Type | Base <br> Boot <br> ROM | HP-UX Version Support |
| :---: | :---: | :---: | :---: | :---: |
| Option UGB | Add second LAN + 2nd serial port | GIO |  | 9.03-10.20 |
| Option UGC | Add X. 25 port plus 2nd serial port | GIO | Unsup. | 9.03-10.20 |
| Option UKA | 100 MHz CPU | VME 6U |  |  |
| Option 011 | Upgrade 2.0 GB nsSCSI disk to 2.0 GB fwdSCSI | fwdSCSI | 1.1 | 9.0-10.20 |
| Option $013{ }^{\circ}$ | Upgrade 525 Mbyte disk to 1.3Gbyte | nsSCSI | Any | 9.0-10.20 |
| Option 072 | Factory install fwdSCSI and cables | GSC-M | Any | 10.20 |
| Option 073 | Factory install fnsSCSI | cables | Any | 10.20 |
| Option 096 | Add 96 Mbytes RAM (128 total) | RAM | Any | $8.05{ }^{15}-11.0$ |
| Option 110 | Add 4-slot EISA assembly | Card cage | NOP | 10.20-11.0/32 |
| Option 111 | Add 4-slot PCl-32 5v 1x assembly | Card cage | NOP | 10.20 |
| Option 112 | Add 112 Mbytes RAM (128 total) | RAM | Any | $8.05{ }^{15}-11.0$ |
| Option 176 | Add 176 Mbytes RAM (192 total) | RAM | Any | 8.05-11.0 |
| Option 201 ${ }^{\circ}$ | 64 MHz CPU, no video | VME 6U |  | $9.05-9.07 \perp 10.10-10.20$ |
| Option $202^{\circ}$ | 64 MHz CPU, CR8 1280 video | VME 6U |  | $9.05-9.07 \perp 10.10-10.20$ |
| Option 203 ${ }^{\circ}$ | 100 MHz CPU, no video | VME 6U |  | $9.05-9.07 \perp 10.10-10.20$ |
| Option $204^{\circ}$ | 100 MHz CPU, CR8 1280 video | VME 6U |  | 9.05-9.07 $\perp 10.10-10.20$ |
| Option 224 | Add 224 Mbytes RAM (332 total) | RAM | Any | 8.07-11.0 |
| Option 352 | Add 352 Mbytes RAM (384 total) | RAM | Any | 8.07-11.0 |

## Processor Option Notes:

15. Minimum supported revision is 8.07 if these Options delivered 32Mbyte " 2 X " memory boards.
16. HP-UX 10.10 minimum RAM is 32 Mbytes.

## System Processor RAM Support

HP PA-RISC Workstation system processors use several types of dynamic random access memory (DRAM, or simply RAM) for main system memory.

## HP PA-RISC Workstations RAM Designs

In order to provide the memory capacities, performance and reliability required in a workstation, HP workstation RAM SIMMs and DIMMs are not generally identical to those used in PCs

Non-HP RAM is not officially supported. As time permits, information regarding SIMM/DIMM designs is being added to this table, for those who desire to self-support.

## HP PA-RISC Workstations RAM Designs

| SPU <br> Model | RAM Slots | RAM Design | Speed | Comments |
| :---: | :---: | :---: | :---: | :---: |
| B132L | 6,3 pair | ECC EDO DIMM | 50ns | 32MB-768MB, pairs required |
| B132L+ | 6,3 pair | ECC EDO DIMM | 50ns | 32MB-768MB, pairs required |
| B160L | 6,3 pair | ECC EDO DIMM | 50ns | 32MB-768MB, pairs required |
| B180L | 6,3 pair | ECC EDO DIMM | 50ns | 32MB-768MB, pairs required |
| C100 | 12, 6 pair | ECC DIMM |  | 32 MB -1.0GB ${ }^{17}$, pairs required |
| C110 | 12, 6 pair | ECC DIMM |  | 32 MB -1.0GB ${ }^{17}$, pairs required |
| C160 | 12, 6 pair | ECC DIMM |  | $32 \mathrm{MB}-1.5 \mathrm{~GB}$, pairs required |
| C160L | 12, 6 pair | ECC DIMM, FPM or EDO |  | 32MB-1.0GB, pairs required |
| C180-XP | 12, 6 pair | ECC DIMM, FPM or EDO |  | 32MB-1.5GB, pairs required |
| C200 | 12, 6 pair | ECC DIMM, FPM or EDO |  |  |
| C240 | 12, 6 pair | ECC DIMM, FPM or EDO |  |  |
| J200 | 12, 6 pair |  |  | $32 \mathrm{MB}-1 \mathrm{~GB}^{17}$, pairs required |
| J210 | 12, 6 pair |  |  | $32 \mathrm{MB}-1 \mathrm{~GB}^{17}$, pairs required |
| J210XC | 12, 6 pair |  |  | $32 \mathrm{MB}-1 \mathrm{~GB}{ }^{17}$, pairs required |
| J2240 | 16, 8 pair | ECC, DIMM |  | 128MB - 2.0 GB, pairs required |
| J280 | 16,8 pair | ECC, FPM or EDO |  | 32MB -2.0GB, pairs required |
| J282 | 16,8 pair | ECC, DIMM |  | 64MB - 2.0 GB , pairs required |
| K260-EG | 16, 8 pair | ECC SIMM |  | 128-2.0GB, pairs required |
| K460-EG | 32, 16 pair | ECC SIMM |  | 128MB-3.75GB, pairs required |
| K460-XP | 32, 16 pair | ECC SIMM |  | 128MB-3.75GB, pairs required |
| MPS10 ${ }^{\circ}$ |  |  |  |  |
| 705 $\left.{ }^{\circ} / 35\right]$ | 8,2 quads |  |  | Must be used in quads |
| $\left.710^{\circ} / / 50\right]$ | 8,2 quads |  |  | Must be used in quads |
| 712/any | 4,2 pair |  |  | 16-128MB, pairs required |
| 715/33 ${ }^{\circ}$ | 6,3 pair |  |  | 16-192MB, pairs required |
| $\left.715{ }^{\circ} \mathrm{l} / 33\right]$ |  |  |  |  |
| 715e [/50] | 8, 4 pair |  |  | Pairs required |
| 715s $\left.{ }^{\circ} / 50\right]$ |  |  |  |  |
| $715 / 50^{\circ}$ | 8, 4 pair |  |  | 16-256, pairs required |

HP PA-RISC Workstations RAM Designs

| SPU <br> Model | RAM Slots | RAM Design | Speed | Comments |
| :---: | :---: | :---: | :---: | :---: |
| 715/64 | 8, 4 pair |  |  | 32-256MB, pairs required |
| 715/75 | 8, 4 pair |  |  | 32-256MB, pairs required |
| 715/80 | 8, 4 pair |  |  | 32-256MB, pairs required |
| 715/100 | 8, 4 pair |  |  | 32-256MB, pairs required |
| $\left.720^{\circ} / / 33\right]$ | 8, 4 pair |  |  | Pairs required |
| 725/50 ${ }^{\circ}$ | 8, 4 pair |  |  | 32-256MB, pairs required |
| 725/75 | 8, 4 pair |  |  | 32-256MB, pairs required |
| 725/100 | 8, 4 pair |  |  | 32-256MB, pairs required |
| $\left.730^{\circ} / / 50\right]$ | 8, 4 pair |  |  | Pairs required |
| $\left.735^{\circ} / / 99\right]$ | 12, 6 pair |  |  | 32-400MB, pairs required |
| 735CL [/nx99] | 12@ |  |  | 32-400MB@, pairs required |
| 735/125 | 12, 6 pair |  |  | 32-400MB, pairs required |
| 742i $/ / 50]$ | 2, 1 pair |  |  | 16-64MB, pairs required |
| 743i/64, /100 | 2 | Custom daughter |  | 8-256MB |
| 743i/64 | 4 |  |  | 8-256MB |
| 743i/100 | 4 |  |  | 8-256MB |
| 744/132L |  |  |  | --256MB |
| 745i/50, /100 | 4,2 pair |  |  | 16-128MB, pairs required |
| 747i/50, /100 | 4, 2 pair |  |  | 16-128MB, pairs required |
| 748i/64, /100 |  |  |  | 8-256MB |
| 748/132L |  |  |  | --256MB |
| $750^{\circ}$ //66] | 6,3 pair |  |  | Pairs required |
| 755 [/99] | 12, 6 pair |  |  | 64-768MB, pairs required |
| 755/125 | 12, 6 pair |  |  | 64-768MB, pairs required |

## Ram Design Notes:

17. Maximum RAM prior to 10.0 is 768

Kbytes.

## RAM Support by RAM Product Number

HP-UX 10.20 requires a minimum of 16 MB RAM. HP-UX 11.0 requires a minimum of 32 MB .

Unless otherwise specified in the "Comments" column of the following table, HP PA-RISC Workstation system processors require that RAM slots be used in pairs.
"Pairs" means that RAM slots must be used two at a time, and that both adjacent slots must be occupied by a RAM SIMM/DIMM of identical size and design.

This does not generally mean that you must purchase a pair of (quantity 2) of the RAM product number. In gen-
eral, when RAM pairing is required, the RAM SIMM/DIMM product is structured as a pair.

The real significance of "pairs required" is that you cannot usually purchase quantity-one of a single RAM product and split the SIMM/ DIMMs for use in separate comput-
ers.
RAM Product Support

| Formal Product Number | Description | Type | SPU Hardware Support | Comments |
| :---: | :---: | :---: | :---: | :---: |
| A1978A ${ }^{\circ}$ | 8 MB (2, 4MB@) |  | Models 720, 730, 750, 755/99, 755/125 | Quads required |
| A1979A | $16 \mathrm{MB}(2,8 \mathrm{MB@})$ |  | Models 720, 730, 735/[all], 750 |  |
| A1987A | 32 MB (2, 16MB@) |  | Model 750 |  |
| A2201A | 8 Mbyte ECC RAM (one) |  | Model 710e |  |
| A2202A | 16 MB (one) |  | Models 710e, 745i |  |
| A2216A | 8 Mbyte RAM pair (2, 4MB@) |  | Models 705, 710 | Excluding Model 710e. |
| A2217A | 16 Mbyte RAM pair (2, 8MB@) |  | Models 705, 710 | Excluding Model 710e. |
| A2218A | 32 Mbyte RAM pair (2, 16MB@) |  | Models 705, 710 | Excluding Model 710e. |
| A2512A ${ }^{\circ}$ | 32 MB (2, 16MB@), 72-pin |  | Models 720, 730, 735/99, 735/125, 750, 755/99, 755/125 | Note ${ }^{18}$ |
| A2513A ${ }^{\circ}$ | 64 MB (2, 32MB@), 72-pin |  | Models 750, 755/99, 755/125 | Note ${ }^{18}$ |
| A2518A ${ }^{\circ}$ | 128 MB (2, 64MB@), 72-pin |  | Models 755/99, 755/125 |  |
| A2521A | 96Mb Model 720 CPU Upgrade |  | Model 720 | Includes CPU chip and other parts. |
| A2522A | 128Mb Model 720 CPU Upgrade |  | Model 720 | Includes CPU chip and other parts. |
| A2531A ${ }^{\circ}$ | 96Mb Model 730 CPU Upgrade |  | Model 730 |  |
| A2532A | 128Mb Model 730 CPU Upgrade |  | Model 730 | Includes CPU chip and other parts. |
| A2533 ${ }^{\circ}$ | 256Mb Model 750 Upgrade |  | Model 750 |  |
| A2534A ${ }^{\circ}$ | 384Mb Model 750 Upgrade |  | Model 750 |  |
| A2562A | 64Mb Model 720 RAM Upgrade |  | Model 720 |  |
| A2567A | 64Mb Model 730 RAM Upgrade |  | Model 730 |  |
| A2577A | 8 MB (2, 4MB@), 72-pin |  | Models 712/60, 712/80, 712/100, 715/64, 715/80, 715/ 100, 715/100XC, 725/100 |  |
| A2578A | 16 MB (2, 8MB@), 72-pin |  | Models 712/60, 712/80, 712/100, 715/64, 715/80, 715/ 100, 715/100XC, 725/100, v743 |  |
| A2646A ${ }^{\circ}$ | 64 MB (2, 32MB@), 72-pin |  | Models 735/[all], 750/[all], 755/[all] |  |
| A2668A | 32 Mb Model 720 RAM Upgrade |  | Model 720 |  |
| A2669A ${ }^{\circ}$ | 32 Mb Model 730 RAM Upgrade |  | Model 730 | Includes CPU chip and other parts. |
| A2815A | 8 MB (2, 4MB@), 72-pin |  | Models 715/33, 715/50, 715/75, 725/50, 725/75, 742i, 745i/50, 745i/100, 747i/50, 747i/100 | HP-UX 9.0-10.20 |
| A2816A | 16 MB (2, 8MB@), 72-pin |  | Models 715/33, 715/50, 715/75, 725/50, 725/75, 742i, 745i/50, 745i/100, 747i/50, 747i/100 | HP-UX 9.0-10.20 |
| A2827A | 64 MB (2, 32MB@), 72-pin |  | Models 712/60, 712/80, 712/100, 715/33, 715/64, 715/75, 715/80, 715/100, 725/50, 725/75, 725/100, 715/100XC, 742i, v743, 745i, 745i/50, 745i/100, 747i/50, 747i/100 | HP-UX 9.0-11.0/32 |
| A2829A | 2 MB (2, 16MB@), 72-pin |  | Models 712/60, 712/80, 712/100, 715/33, 715/64, 715/75, 715/80, 715/100, 715/100XC, 725/50, 725/75, 725/100, 742i, v743, 745i, 745i/50, 745i/100, 747i/50, 747i/100 |  |
| A2875A | 128 MB (2, 64MB@), 72-pin |  | Models 725/50, 725/75, 725/100, 745i/100, 747i/100 |  |
| A3026A | 32 MB (2, 16MB@) | ECC SIMM | C100, C110, EPS20, J200, J210, J210XC, J280, J282 and K-Class |  |
| A3027A | 128 MB (2, 64MB@) | ECC SIMM | C100, C110, EPS20, J-Class and K-Class |  |

## RAM Product Support

| Formal <br> Product <br> Number | Description | Type | SPU Hardware Support | Comments |
| :---: | :---: | :---: | :---: | :---: |
| A3483A | 256 MB (2, 128MB@) | ECC EDO SIMM | K-Class |  |
| A3543A | 64 MB (2, 32MB@) | ECC SIMM | K-Class |  |
| A3737A | 512 MB (2, 256MB@) | $\begin{aligned} & \text { ECC EDO } \\ & \text { DIMMs } \end{aligned}$ | Model J2240 |  |
| A4177A | 256 MB (2, 128MB@) | 50nS ECC <br> EDO SIMM | Models B132L, B160L, C160, C180-XP, B132L, B160L, J210XC, J282 |  |
| A4207A | 32 MB (2, 16MB@) | ECC FPM DIMM | Models B132L, B160L, C100, C110, C160, C160L, C180XP, J-Class |  |
| A4208A | 128 MB (2, 64MB@) | ECC FPM DIMM | Models B132L, B160L, C160, C160L, C180-XP, J200, J210, J210XC, J280 | J282 for upgrades only |
| A4209A | 64 MB (2, 32MB@) | ECC FPM DIMM | $\begin{aligned} & \text { Models B132L, B160L, C100, C110, C160, C160L, C1800, } \\ & \text { J-Class } \end{aligned}$ | $\begin{array}{\|l\|} \hline \mathrm{C} 100 / 110^{19} \\ \mathrm{~J} 200 / 210 / 210 \mathrm{XC}^{20} \end{array}$ |
| A4263A | 8 MB (1, 8MB@) | Daughter | TelePACE, Models 743i/64, 743i/100, 748i/64, 748i/100 | Max 2 cards |
| A4264A | 16 MB (1, 16MB@) | Daughter | TelePACE, Models 743i/64, 743i/100, 748i/64, 748i/100 | Max 2 cards |
| A4265A | 32 MB (1, 32MB@) | Daughter | TelePACE, Models 743i/64, 743i/100, 748i/64, 748i/100 | Max 2 cards |
| A4266A | 64 MB (1, 64MB@) | Daughter | TelePACE, Models 743i/64, 743i/100, 748i/64, 748i/100 | Max 2 cards |
| A4299A | 1 MB 2nd-level Cache | Daughter | Models B132L+, C160L | Max 1 |
| A4449A | 128 MB (1, 128MB@) | EDO | Models 744/132L, 744/165L, 745/132L, 748/132L, 748/ 165L |  |
| A4501A | 16 MB (1, 16MB@) |  | Model 744rt only |  |
| A4502A | 32 MB (1, 32MB@) | ECC | Models 744/132L, 744/165L, 745/132L, 748/132L, 748/ 165L |  |
| A4503A | 64 MB (1, 64MB@) | ECC | Models 744/132L, 744/165L, 745/132L, 748/132L, 748/ 165L |  |
| A4515A | $64 \mathrm{MB}(2,32 \mathrm{MB@}$ ) | ECC EDO DIMM, 50ns | Models B132L+, B180L |  |
| A4516A | 128 MB (2, 64MB@) | ECC EDO DIMM, 50ns | Models B132L+, B180L, C200, C240, J2240, J282 |  |
| A4517A | 256 MB (2, 128MB@) | ECC EDO DIMM, 50ns | Models B132L+, B180L, C200, C240, J2240, J282 |  |
| A4984A | 512 MB (2, 256MB@) | ECC EDO DIMM | Model J2240 |  |
| 98229x ${ }^{\circ}$ | 4 Mbytes |  | Models 715s/t | $9.0-9.07 \perp 10.01-10.20 \nabla$ |

## RAM Product Support Footnotes

18. CPU board exchange required if SPU
serial number below:
Model s/n
$720 \quad 3217 \mathrm{G} 09042$
730 3218G01093
750 3130G00261 or less than 3130G00102
19. C100/C110 require PDC firmware revision 1.2 or greater.
20. J200/210/210XC require PDC firmware 1.9 or greater.

## Mass Storage Devices

All HP PA-RISC Workstation support some varieties of SCSI (Small Computer Systems Interface) disk interfaces.

Fibre Channel (FC-AL) is available for selected Models.

Depending on processor model, flexible disk drives may be support via nsSCSI or PC-style (FDD) floppy bus.

A CS/80 driver is provided for HP-IB cartridge tape drives, and continuing editions of this matrix will reflect what is known about the use of that software with CS/80 and SS/80 disks. Those known to be non-functional are so noted.

All devices listed as type "CS/80" or "SS/80" employ an HP-IB interface. $\mathrm{CS} / 80$ and $\mathrm{SS} / 80$ devices may be used
only with the 25560A EISA HP-IB card. These drivers are non-functional with the E2070A/B, E2071A, 82335B and other ISA HP-IB cards. No AMIGO disks are listed.

Many disk products are made by Hewlett-Packard for the OEM market A number of these are listed here, and few are officially supported on workstation HP-UX at the system level. The balance may or may not be directly supported on HP-UX directly by HP's Disk Memory Division, as noted.

Retail and OEM disks often have different firmware than supported HP workstation disks, and may not operate at all, or may operate with reduced performance and functionality.

Supported disks are identified by the HP product number used to order them, which normally appears on a physical label on the drive or enclosure. The drive may identify differently to the $\operatorname{scsiinfo}(1 \mathrm{M})$ or diskinfo(1M) command.

The "Min. Boot ROM" column indicates the minimum revision of SPU ROM code required to boot an operating system, recovery system or diagnostic kernel from the device. Booting from HP-IB devices is not possible (no ROM).

## Internal Hard Disks

The product number shown are generally for post-sale upgrade kits, but also cover the same disk when standard or factory-installed.

## Internal Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1440A ${ }^{\circ 0}$ | 200/210 MByte ${ }^{22}$ | nsSCSI | Unsup. | Model 715t | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A1442A ${ }^{\circ 0}$ | 330 MByte | nsSCSI | Unsup. | Model 715s | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A1443A ${ }^{\circ}$ | 660 MByte | nsSCSI | Unsup. | Model 715s | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A1444A ${ }^{\circ}$ | 660 MByte | nsSCSI | Unsup. | Model 715s | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A1980A ${ }^{\circ}$ | 210 MByte, 1st ${ }^{22}$ | nsSCSI | Any | Models 720, 730, 735/99, 735/125 | $8.05-10.20 \nabla$ |
| HP A1981A ${ }^{\circ}$ | 210 MByte, 2nd | nsSCSI | Any | Models 720, 730, 735/99, 735/125 | 8.05-10.20 |
| HP A1982A ${ }^{\circ}$ | 420 MByte, 1st | nsSCSI | Any | Models 720, 730, 735/99, 735/125 | 8.05-10.20 $\overline{\text { d }}$ |
| HP A1983A | 420 MByte, 2nd | nsSCSI | Any | Models 720, 730, 735/99, 735/125 | 8.05-10.20 |
| HP A1988A ${ }^{\circ 0}$ | 660 MByte | nsSCSI | Any | Models 750, 755/99, 755/125 | 8.05-10.20 |
| HP A1989A ${ }^{\circ}$ | 1.3 GByte | nsSCSI | Any | Models 750, 755/99, 755/125 | 8.05-10.20 |
| HP A2071A ${ }^{\circ}$ | s400 210 MByte $^{22}$ | nsSCSI | Any | Model 710e | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2072A | s400 420 MByte | nsSCSI | Any | Model 710e | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2075A ${ }^{\circ}$ | s400 420 MByte | nsSCSI | Unsup. | Model 715t | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2076A ${ }^{\circ}$ | s400 1.3 GByte | nsSCSI | Unsup. | Model 715t | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2219A ${ }^{\circ}$ | 210 MByte $^{22}$ | nsSCSI | Set.A | Models 705, $710^{21}$ | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2221A ${ }^{\circ}$ | 420 MByte | nsSCSI | Set.A | Models 705, $710^{21}$ | 8.07-9.07 $\perp 10.01-10.20 \nabla$ |

Internal Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A2444A ${ }^{\circ}$ | 566 MByte | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A2445A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | K-Class | 10.01-10.20 |
| HP A2446A ${ }^{\circ}$ | 2.0 GByte | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A2251...9A (all ${ }^{\circ}$ ) | Series 300 internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP A2556A ${ }^{\circ}$ | 2.0 GByte 8-bit | nsSCSI | 1.1 | Models 755/99, 755/125 | $9.0-10.20 \nabla$ |
| HP A2563A ${ }^{\circ}$ | 1.0 GByte, 8-bit | nsSCSI | 1.1 | Models 735/99, 735CL, 735/125 | $9.0-10.20 \nabla$ |
| HP A2564A ${ }^{\circ}$ | 2.0 GByte, 16-bit | fwdSCSI | 1.1 | Models 755/99, 755/125 | $9.0-10.20 \nabla$ |
| HP A2565A ${ }^{\circ}$ | 525 MByte | nsSCSI | 1.1 | Models 735/99, 735CL, 735/125 | $9.0-10.20 \nabla$ |
| HP A2566A ${ }^{\circ}$ | 1.0 GByte, 16-bit | nsSCSI | 1.1 | Models 735/99, 735CL, 735/125 | $9.0-10.20 \nabla$ |
| HP A2640A ${ }^{\circ}$ | 525 MByte | nsSCSI | Any | Models 745i, 747i, 748i | 9.0-11.0/32 |
| HP A2641A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | Models 745i, 747i, 748i | 9.0-11.0/32 |
| HP A2800A ${ }^{\circ}$ | 525 MByte | nsSCSI | 1.1 | Models 715/33, 715/50, 715/64, 715/80, 715/100, 725/100 | 9.0-11.0/32 |
| HP A2801A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | IODC 1.1 | Models 715/33, 715/50, 715/64, 715/75, 715/80, 715/100, 715/100XC, 725/100 | 9.0-11.0/32 |
| HP A2809A ${ }^{\circ}$ | 525 MByte | nsSCSI | 1.1 | Model 725 | $9.0-10.20 \nabla$ |
| HP A2813A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | 1.1 | Model 725 | $9.0-10.20 \nabla$ |
| HP A2832A ${ }^{\circ}$ | 1.0 GByte | fwdSCSI | Any | Model 735 | $9.0-10.20 \nabla$ |
| HP A2885A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | Model 715t | 8.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2886A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | Model 735/[all] | 9.0-10.20 |
| HP A2958A ${ }^{\circ}$ | 535 MB | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A3025A ${ }^{\circ}$ | Two 2.0 GByte | nsSCSI | Any | K-Class |  |
| HP A3058A | 1 GB | fwdSCSI | Unsup. | Series 900 | Unsup. |
| HP A3087A ${ }^{\circ}$ | 2 GB | nsSCSI | Unsup. | Series 900 | Unsup. |
| HP A3145A | 2 GB | fwdSCSI | Unsup. | Series 800 | Unsup. |
| HP A3182A | 1 GB | ??SCSI | Any | K-Class | 10.01-10.20 |
| HP A3191A ${ }^{\circ}$ | 2 GB | ??SCSI | Unsup. | Series 800 | Unsup. |
| HP A3304A | 2 GB | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A3349A ${ }^{\circ}$ | 1.0 GB | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A3350A ${ }^{\circ}$ | 1 GB | fwdSCSI | Any | EPS20, K-Class | 10.01-10.20 |
| HP A3351A | 2 GB | fwdSCSI | Any | EPS20, K-Class | 10.01-10.20 |
| HP A3352A | 4 GB | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A3353A | 4 GB | fwdSCSI | Note ${ }^{26}$ | EPS20, K-Class | 10.01-10.20 |
| HP A3629A | 9 GB | fwdSCSI | Unsup. | Unsupported. S800 product. | Unsup. |
| HP A4065A ${ }^{\circ}$ | 260 MByte ${ }^{22}$ | nsSCSI | Any | Model 712 | 9.03-11.0/32 |
| HP A4066A ${ }^{\circ}$ | 525 MByte | nsSCSI | Any | Model 712 | 9.03-11.0/32 |
| HP A4067A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | Model 712 | 9.03-11.0/32 |
| HP A4117A ${ }^{\circ}$ | 1.0 GByte | fwdSCSI | Any | Models 715/100, J200, J210, J210XC, J280, J282 | 9.05-11.0 |
| HP A4118A ${ }^{\circ}$ | 2.0 GByte | nsSCSI | Any | Models 715/64, 715/80, 715/100, 715/ 100XC, 725/100 | 9.03-11.0/32 |
| HP A4119A | 2.0 GByte, 3.5FF, 1-inch high | fwdSCSI | Any | Models C100, C110, 715/100, J200, J210, J210XC, J282 | 9.05-11.0 |

## Internal Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A4137A | Model 362/382 disks | nsSCSI | N/A | Unsupported | Unsup. |
| HP A4213A | 2.0 GByte | nsSCSI | Any | B-Class | 10.20-11.0/32 |
| HP A4214A | 2.0 GByte | fwdSCSI | Any | B132L (not +), B160L, requires A2889A daughter card | 10.20-11.0/32 |
| HP A4272A | 2.0 GByte | nsSCSI | Any | Models 712, 715/64, 735/99, 735/125 | 9.03-11.0/32 |
| HP A4273A ${ }^{\circ}$ | 2.0 GByte | fwdSCSI | Any | Models 735/99, 735/125 | $9.05-10.20 \nabla$ |
| HP A4274A ${ }^{\circ}$ | 2.0 GByte | nsSCSI | Any | Models 735/99, 735/125 | 9.0-10.20 $\overline{7}$ |
| HP A4275A ${ }^{\circ}$ | 2.0 GByte, second | fwdSCSI | Any | Models 735/99, 735/125 | $9.05-10.20 \nabla$ |
| HP A4280A ${ }^{\circ}$ | 525 MB | nsSCSI | Unsup. | Series 300 | Unsup. |
| HP A4321A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | Models 745i, 747i, 748i | 9.03-11.0/32 |
| HP A4322A | 2.0 GByte | nsSCSI | Any | TelePACE, Models 743, 744/[all], 745/50, 745/100, 747i, 748/[all] | $9.03-10.20 \nabla$ |
| HP A4351A | 2.0 GByte | fwdSCSI | Any | TelePACE, Models 743, 744, 748i/[all] | 9.03-11.0/32 |
| HP A4356A | 4.0 GByte, 3.5FF, 1-inch high | fwdSCSI | Note ${ }^{26}$ | J-Class, Model 755/125 | 10.01-11.0/32 |
| HP A4459A | 9.0 Gbyte | fwdSCSI | NOP | Models 743, 744, 748i/64, 748i/100, 748/132L, 748/165L | 10.01-11.0/32 |
| HP A4460A | 2.0 GByte, 1.0-in. FF | fwdSCSI | Any | Model C110, C160, C160L, C180-XP | 10.20-11.0 |
| HP A4461A | 4.0 GByte, 1.6-in. FF | fwdSCSI | Note ${ }^{26}$ | C-Class | 9.05-11.0 |
| HP A4477A | 4.0 Gbyte | fwdSCSI | Note ${ }^{26}$ | B-Class | 10.20-11.0/32 |
| HP A4480A | 4.0 GByte | fwdSCSI | Note ${ }^{26}$ | Model 725/100 | 10.01-11.0/32 |
| HP A4482A | 4.0 GByte | fwdSCSI | Note ${ }^{25}$ | Models 743, 744, 748i/64, 748i/100, 748/132L, 748/165L | 10.01-11.0/32 |
| HP A4483A | 4.0 Gbyte | nsSCSI | Note ${ }^{26}$ | B-Class | 10.01-11.0/32 |
| HP A4484A | 4.0 Gbyte | nsSCSI | Note ${ }^{26}$ | $\begin{aligned} & \text { Models 743, 744, 745/132L, 748/132L, } \\ & \text { 748/165L } \end{aligned}$ | 10.01-11.0/32 |
| HP A4485A | 9.0 Gbyte, 3.5FF | fwdSCSI | Note ${ }^{27}$ | J-Class | 10.01-11.0 |
| HP A4486A | 9.0 Gbyte | fwdSCSI | Note ${ }^{27}$ | C-Class | 10.01-11.0 |
| HP A4568A ${ }^{\circ}$ | 2.0 GB, 3.5x1FF | uwsSCSI | Any | Models B132L+, B180L | 10.20-11.0/32 |
| HP A4569A | 4.0 GB, 3.5x1FF | uwsSCSI | Any | $\begin{aligned} & \text { Models B132L+, B180L, C200, C240, } \\ & \text { J2240 } \end{aligned}$ | 10.20-11.0 |
| HP A4570A | 9.0 GB, 3.5x1.6FF | uwsSCSI | Any | Models B132L+, B180L, C200 (Standard on C240), J2240 | 10.20-11.0 |
| HP A4958A | 2 GB | nsSCSI | Any | Model 712/100 | 9.05-11.0/32 |
| HP C2281 ${ }^{\circ}$, $82 \mathrm{~A}^{\circ}$ | Series 800 Internal | HP-IB | NOP | Mechanically Incompatible | Unsup. |
| HP C2490A ${ }^{\circ}$ | 2.1 GByte 3.5-in. OEM | xxSCSI | Unsup. | Unsupported. Boot failures have been reported. | Unsup. |
| HP C2490D ${ }^{\circ}$ | 2.1 GByte 3.5-in. OEM | ndSCSI | Unsup. | Unsupported | Unsup. |
| HP C2490SE ${ }^{\circ}$ | 2.1 GByte 3.5-in. OEM | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C2490W ${ }^{\circ}$ | 2.1 GByte 3.5-in. OEM | fwdSCSI | Unsup. | Unsupported | Unsup. |
| HP C3010 | 2.0 GB 5.25 mech. | xxSCSI | Note ${ }^{25}$ | Note ${ }^{25}$ | Note ${ }^{25}$ |
| HP D168xA ${ }^{\circ}$ | Hard disks for Vectra | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2075 ${ }^{\circ}$ A/B | 535 MB for PC | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2076 ${ }^{\circ}$ / ${ }^{\text {B }}$ | 1.05 GB, for HP NetServer | nsSCSI | Unsup. | Unsupported | Unsup. |

## Internal Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP D2077A | 2.1 GB, for HP NetServer | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2645A ${ }^{\circ}$ | 1.0GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2653A ${ }^{\circ}$ | 1.0GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2769A | 2 GB , for PC | unsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2797A | 4 GB , for PC | unsSCSI | Unsup. | Unsupported | Unsup. |
| HP D2788A | 2.1 GB | fnsSCSI | Unsup. | Unsupported. PC device. | Unsup. |
| HP D2794A | 4.5 GB | fnsSCSI | Unsup. | Unsupported. PC device. | Unsup. |
| HP D3340A ${ }^{\circ}$ | 2.1 GB, for HP NetServer | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D3341A | 4.0 GB, for HP NetServer | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D3581A ${ }^{\circ}$ | 1.05 GB NetServer removable | fwdSCSI | Unsup. | Unsupported | Unsup. |
| HP D3582A/B | 2.1 GB NetServer removable | fwdSCSI | Unsup. | Unsupported | Unsup. |
| HP D3583A $/$ / | 4.2 GB NetServer removable | fwdSCSI | Unsup. | Unsupported | Unsup. |
| HP D4289A | 9.1 GB NetServer removable | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4884B | 2 GB disk | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4903A | 4 GB Hot-Swap drive | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4910A | 4.2 GB NetServer | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4911A | 9.1 GB NetServer | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4956A | $2 \times 4.2$ GB disk tray | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D4963A | 4.2 GB NetServer | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP D5039A | 18 GB hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D5368A/B | 4.5 GB, low-profile, 7200 rpm | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D5369A | $9 \mathrm{~GB}, 1.6$-inch, 7200 rpm | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D5481A | 4.5 GB, low-profile, 10,000 rpm | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D6019A | 9.1 GB 10,000 rpm hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D6104A | 4.2 GB 7200 rpm hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D6106A | 9.1 GB 7200 rpm hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D6107A | 9.1 GB 10,000 rpm hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP D6108A | 18 GB 7200 rpm hot-swap | uwsSCSI | Unsup. | Unsupported | Unsup. |
| HP E1562A | $\mathrm{ns} / \mathrm{ndSCSI}$ controller, 2.1 GB Mbyte disk and 4 GB DDS, for VXI systems | VXI-C |  | Model v743 | 9.05-10.10 |
| HP E1562B | ns/ndSCSI controller, dual 2.1 GB Mbyte disk and 4 GB DDS, for VXI systems | VXI-C |  | Model v743 | 9.05-10.10 |
| HP E1562C | 2GB Mbyte dual hard, 4GB DDS, for VXI systems | VXI-C, ndSCSI |  | Model v743 | 9.05-10.10 |
| HP E3249A | 2.1 GB hard drive, 4 GB DDS | $\begin{array}{\|l\|} \hline \text { nsSCSI,VXI } \\ -\mathrm{Cx} 2 \\ \hline \end{array}$ |  |  |  |
| HP E4208A ${ }^{\circ}$ | 525 Mbyte hard, and 21 MB floptical for VXI systems | $\begin{aligned} & \text { VXI-C, } \\ & \text { nsSCSI } \end{aligned}$ |  | Model v743 | 9.05-10.10 |
| HP E4208B ${ }^{\circ}$ | 1Gb hard, and 21 MB floptical for VXI systems | $\begin{aligned} & \text { VXI-C, } \\ & \text { nsSCSI } \end{aligned}$ |  | Model v743 |  |
| HP E4208C | 2.1 GB HDD and 1.44MB floppy | $\begin{aligned} & \hline \text { VXI-C, } \\ & \text { nsSCSI } \end{aligned}$ |  | Model v743 |  |

Internal Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP S2375A ${ }^{\circ}$ | 1.0 GB | nsSCSI | 2.0 | Diskless Models 705, 710 | 9.01-9.07 $\perp 10.01-10.10$ |
| HP97650 | 1.3 GB mech. | nsSCSI | Note ${ }^{25}$ | Note ${ }^{25}$ | Note ${ }^{25}$ |
| HP 98433D ${ }^{\circ}$ | Model 345200 Mb | nsSCSI | Unsup. | Unsupported | Unsup. |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| SEJUS |  |  |  |  |  |
| 99318A*C22F | "V/disk" 2-slot VXI peripheral module | VXI |  | Vendor Supported |  |
| \#FDH2000, DTT2 | 1.2 GB hard and 2.0GB 4mm DDS | nsSCSI |  | Vendor Supported |  |
| *FDH2000, CDROMHP | 2.0 GB hard and CD-ROM | nsSCSI |  | Vendor Supported |  |

## Internal Hard Disk Notes:

21. Not supported on Model 710e (upgraded Model 425e).
22. This disk is too small to support the entire HP-UX run-time product.
23. LVM (Logical Volume Manager) is required on the disk when used as boot device.
24. The only supported versions of this device are the A2288-69002 and A2288-69003.
25. The only supported version of this device is the A1095-69008.
26. 4 GB drives are bootable only on 10.01 and later. They may be used as data disks (mounted volumes) on some earlier releases. LVM is required if boot disk.
27. 9 GB drives are bootable and mountable only on 10.01 and later. LVM is required in all cases.

## External Hard Disks

External hard disks are supplied in an an enclosure with their own power supply (except for upgrades to multidrive products).

This section also includes internal hard disk assemblies that are used exclusively in external storage enclosures.

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

## External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1993A ${ }^{\circ}$ | 2@1.4 GB | nsSCSI | Any |  |  |
| HP A2657A ${ }^{\circ}$ | 1.0 GByte | nsSCSI | Any | All Models | 9.0-11.0 |
| HP A3231A ${ }^{\circ}$ | Model 10 High Availability disk array rack | $\begin{aligned} & \text { fwdSCSI, } \\ & \text { RS232 } \end{aligned}$ | Unsup. | EPS20 | 10.01-10.20 |
| HP A3232A ${ }^{\circ}$ | Model 20 High Availability disk array rack | $\begin{array}{\|l\|} \hline \text { fwdSCSI, } \\ \text { RS232 } \end{array}$ | Unsup. | EPS20 | 10.01-10.20 |
| HP A3308A | DeskTop High-availability storage system (HASS) |  |  |  |  |
| HP A3311A | Deskside storage cabinet (HASS) | SCSI ${ }^{28}$ |  | All Models, generally, but depends on devices installed. | $\begin{aligned} & 9.05-9.07 \perp 10.01-10.20, \\ & \text { Note }^{29} \end{aligned}$ |
| HP A3312A/AZ | Rackmount storage cabinet (HASS) | SCSI ${ }^{28}$ |  | All Models, generally, but depends on devices installed. | $\begin{aligned} & 9.05-9.07 \perp 10.01-10.20, \\ & \text { Note }^{29} \end{aligned}$ |
| HP A3317A ${ }^{\circ}$ | 2 GB disk for A3311/12A | nsSCSI | Any | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3318A | 2 GB disk for A3311/12A | fwdSCSI | Any | All fwdSCSI Models | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3319A ${ }^{\circ}$ | 4 GB disk for A3311/12A | nsSCSI | Note ${ }^{40}$ | All Models | 9.05-9.07 Data only 10.01-10.20 Bootable |
| HP A3320A ${ }^{\circ}$ | 4 GB disk for A3311/12A | fwdSCSI | Note ${ }^{40}$ | All fwdSCSI Models | 9.05-9.07 Data only 10.01-10.20 Bootable |
| HP A3388A ${ }^{\circ}$ | Model 10 High Availability disk array rack | $\begin{array}{\|l\|} \hline \text { fwdSCSI, } \\ \text { RS232 } \end{array}$ | Unsup. | EPS20 | 10.01-10.20 |
| HP A3389A ${ }^{\circ}$ | Model 20 High Availability disk array rack | $\begin{array}{\|l\|} \hline \text { fwdSCSI, } \\ \text { RS232 } \end{array}$ | Unsup. | EPS20 | 10.01-10.20 |
| HP A3396A ${ }^{\circ}$ | 4 GB add-on disk | fwdSCSI |  | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3511A/AZ | High-availability storage system |  |  |  |  |
| HP A3515A | AutoRAID Model 12 deskside | fwdSCSI | Note ${ }^{39}$ | C-Class, J-Class, K-Class, Models 725/100, 735/125, 755/125 | 10.10-10.20 |
| HP A3516A | AutoRAID Model 12 rack-mountable | fwdSCSI | Note ${ }^{39}$ | C-Class, J-Class, K-Class, Models 725/100, 735/125, 755/125 | 10.10-10.20 |
| HP A3516AZ | AutoRAID Model 12, factory-racked | fwdSCSI | Note ${ }^{39}$ | C-Class, J-Class, K-Class, Models 725/100, 735/125, 755/125 | 10.10-10.20 |
| HP A3517A ${ }^{\circ}$ | 2.1 GB add-on for HASS | fwsSCSI | $\Rightarrow$ | See hosting AutoRAID | $\Leftarrow$ |
| HP A3539A | HA Disk Array Model 10, deskside | fwdSCSI | Note ${ }^{35}$ | J-Class w/A4107A, all s700 Models with fwdSCSI | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3540A/AZ | HA Disk Array Model 20, rackable | fwdSCSI | Note ${ }^{35}$ | J-Class w/A4107A, all s700 Models with fwdSCSI | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3549A ${ }^{\circ}$ | Model 20/SP620 High Availability array, deskside | fwdSCSI | Note ${ }^{35}$ | J-Class w/A4107A, all Models with fwdSCSI | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3550A ${ }^{\circ}$ | Model 20/SP620 High Availability array, rack-mount | fwdSCSI | Note ${ }^{35}$ | J-Class w/A4107A, all Models with fwdSCSI | 9.05-9.07 $\perp 10.01-10.20$ |
| HP A3628A | 9 GB HDD | fnsSCSI |  | Unsupported |  |
| HP A3646A | 4.3 Gbyte LP | nsSCSI | Note ${ }^{40}$ | All Models supporting A3311/12A | 10.01-10.20 |

External Hard Disks

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

## External Hard Disks

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C2474T ${ }^{\circ}$ | 1.3 GByte upgrade for C2216/17T | nsSCSI | Any | All Models | 8.07-10.20 |
| Series 6000 Differential |  |  |  |  |  |
| HP C2481A ${ }^{\circ}$ | Model 670SX (Tower; 670 MByte) | ndSCSI | Any | Models MPS10, 735/[alll, 755/ [all] | 8.05-10.20 |
| HP C2482A ${ }^{\circ}$ | Model 1350SX (Tower; 1.3 GByte) | ndSCSI | Any | Models MPS10, 735/[alll, 755/ [all] | 8.05-10.20 |
| Series 6000 Differential |  |  |  |  |  |
| HP C24914 ${ }^{\circ}$ | Add-on 670 MByte hard | ndSCSI | Any | All Models w/C2481/82 | 8.05-10.20 $\overline{7}$ |
| HP C2492A ${ }^{\circ}$ | Add-on 1.3 GByte hard | ndSCSI | Any | All Models w/C2481/82 | 8.05-10.20 $\overline{\text { - }}$ |
| HP C2963A ${ }^{\circ}$ | 1.05 GB, parchment, HDTS50 | nsSCSI | Any | All Models | $9.05{ }^{34}-11.0$ |
| HP C2963D | 1.05 GB , quartz, HDTS50 | nsSCSI | Any | All Models | $9.05{ }^{34}-11.0$ |
| HP C2964A ${ }^{\circ}$ | 2.15 GB, parchment, HDTS50 | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C2964D ${ }^{\circ}$ | 2.15 GB, quartz, HDTS50 | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C2966A ${ }^{\circ}$ | 4.0 GB, parchment color, HDTS68 | fwdSCSI | Note ${ }^{35}$ | All fwdSCSI Models | $9.05-9.07 \perp 10.01-11.0$ |
| HP C2966D ${ }^{\circ}$ | 4.0 GB, quartz color, HDTS68 | fwdSCSI | Note ${ }^{35}$ | All fwdSCSI Models | $9.05-9.07 \perp 10.01-11.0$ |
| HP C2967A ${ }^{\circ}$ | 4.0 GB, parchment color, HDTS50 | nsSCSI | Note ${ }^{36}$ | B-Class, C-Class, J-Class, KClass, TelePACE, Models 712, 715, 725, 735, 743, 745, 747, 748, 755 | 9.05-9.07 $\perp 10.01-11.0$ |
| HP C2967D ${ }^{\circ}$ | 4.0 GB, quartz color, HDTS50 | nsSCSI | Note ${ }^{36}$ | B-Class, C-Class, J-Class, KClass, TelePACE, Models 712, 715, 725, 735, 743, 745, 747, 748, 755 | 9.05-9.07 $\perp 10.01-11.0$ |
| HP C2968A ${ }^{\circ}$ | 9.0 GB, 2xHD68, quartz color | fwdSCSI | Note ${ }^{36}$ | All fwdSCSI Models | 10.01-11.0 |
| HP C2969A ${ }^{\circ}$ | 9.0 GB, 2xHD50, quartz color | nsSCSI | Note ${ }^{36}$ | B-Class, C-Class, J-Class, KClass, TelePACE, Models 712, 715, 725, 735, 743, 745, 747, 748, 755 | 10.01-11.0 |
| HP C2995A ${ }^{\circ}$ | 4 GB , desktop, HD68 (90) | uwsSCSI | Any | All uwsSCSI Models | 10.20-11.0 |
| HP C2996A ${ }^{\circ}$ | 9 GB , desktop, HD68 (90) | uwsSCSI | Any | All uwsSCSI Models | 10.20-11.0 |
| HP C3020R ${ }^{\circ}$ | Rack w/ 1.0 Gb hard and 2Gb DDS, LDBL50 | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3020 ${ }^{\circ}$ | Tower w/1.0 Gb hard and 2Gb DDS, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.0-11.0 |
| HP C3021R ${ }^{\circ}$ | Rack w/ 2.0 Gb hard and 2Gb DDS, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.0-11.0 |
| HP C3021T ${ }^{\circ}$ | Tower w/ 2.0 Gb hard and 2Gb DDS, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.0-11.0 |
| HP C3022R ${ }^{\circ}$ | Rack and 1.0 Gb disk, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3022T ${ }^{\circ}$ | Tower, 1.0 GB hard, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3023R ${ }^{\circ}$ | Rack, 2.0 Gb hard, LDBL50 | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |

External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C3023T ${ }^{\circ}$ | Tower w/one 2.0 Gb, LDBL50 |  |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3024R ${ }^{\circ}$ | Rack w/two 2.0 Gb |  |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3024T ${ }^{\circ}$ | Tower w/two 2.0 Gb, LDBL50 |  |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3027U ${ }^{\circ}$ | Add-on 1.0 Gb for C3020...24R/T | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | $\begin{aligned} & \text { Disks C2214B, C2216/17T, } \\ & \text { C302xT } \end{aligned}$ | 9.05-11.0 |
| HP C3028U ${ }^{\circ}$ | Add-on 2.0 Gb for C3020...24R/T | nsSCSI |  |  |  |
| Option 001 | s700 firmware | nsSCSI | Any | $\begin{aligned} & \text { Disks C2214B, C2216/17T, } \\ & \text { C302xT } \end{aligned}$ | 9.05-11.0 |
| HP C3030R ${ }^{\circ}$ | Rack, 1.0 GB disk, 2.0GB DDS | nsSCSI | Any | EPS, K-Class | 9.05-10.20 |
| HP C3031R ${ }^{\circ}$ | Rack, 2.0 GB disk, 2.0GB DDS | nsSCSI | Any | EPS, K-Class | 9.05-10.20 |
| HP C3032T ${ }^{\circ}$ | 1.0 GB Mini-Tower, HDTS68 | fwdSCSI | Any | Models MPS10, 735/[all], 755/ [all] | $9.01-10.20 \nabla$ |
| HP C3033T ${ }^{\circ}$ | 2.0 GB Mini-Tower, HDTS68 | fwdSCSI | Any | Models MPS10, 735/[all], 755/ [all] | $9.01-10.20 \nabla$ |
| HP C3034T ${ }^{\circ}$ | Fast-wide tower, single 2 GByte, HDTS68 | fwdSCSI | 1.1 | Models MPS10, 735/[all], 755/ [all] | 9.0-10.20 |
| HP C3035T ${ }^{\circ}$ | Fast-wide tower, four@1 GByte, HDTS68 | fwdSCSI | 1.1 | Models MPS10, 735/[all], 755/ [all] | 9.0-10.20 |
| HP C3036T ${ }^{\circ}$ | Fast-wide tower, seven@1 GByte, HDTS68 | fwdSCSI | 1.1 | Models MPS10, 735/[all], 755/ [all] | 9.0-10.20 |
| HP C3037U ${ }^{\circ}$ | Add-on 1.0 GByte for C3034...36T | fwdSCSI | 1.1 | C302xT | $9.0-10.20 \nabla$ |
| HP C3038U ${ }^{\circ}$ | Add-on 2.0 GByte for C3034...36T | fwdSCSI | 1.1 | C302xT | 9.0-10.20 $\overline{\text { - }}$ |
| HP C3040R | 2.0 GByte rack, LDBL50 | nsSCSI | Unsup. | EPS, K-Class | 9.05-10.20 |
| HP C3040T ${ }^{\circ}$ | 2.0 GByte tower, LDBL50 | nsSCSI |  | EPS, K-Class | 9.05-10.20 |
| HP C3041R | 4.0 GByte rack, LDBL50 | nsSCSI |  | EPS, K-Class | 9.05-10.20 |
| HP C3041T | 4.0 GByte tower, LDBL50 | nsSCSI |  | All Models | 9.05-11.0 |
| HP C3044U ${ }^{\circ}$ | 2.0 GByte, for s6000 tower | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3045T ${ }^{\circ}$ | 1.0 GByte tower | nsSCSI | Any | All Models | 9.05-11.0 |
| HP C3049U ${ }^{\circ}$ | 1.0 GByte add-on | nsSCSI | Any | C304xT | 9.05-11.0 |
| HP C3304...6A ${ }^{\circ}$ | Add-ons for C3310A-to-21A towers | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C3310A...21A ${ }^{\circ}$ | PC Array Towers | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C3323A ${ }^{\circ}$ | 1.05 GByte, OEM | xxSCSI | NA | Unsupported | Unsup. |
| HP C3323D ${ }^{\circ}$ | 1.05 GByte, OEM | ndSCSI | NA | Unsupported | Unsup. |
| HP C3323SE ${ }^{\circ}$ | 1.05 GByte, OEM | nsSCSI | NA | Unsupported | Unsup. |
| HP C3324 ${ }^{\circ}$ | 1.0 GB 3.5 mech. | xxSCSI | Note ${ }^{37}$ | Note ${ }^{37}$ | Note ${ }^{37}$ |
| HP C3325 ${ }^{\circ}$ | 2.0 GB 3.5 mech. | xxSCSI | Note ${ }^{38}$ | Note ${ }^{38}$ | Note ${ }^{38}$ |
| HP C3550R ${ }^{\circ}$ | 2.0 GByte s800 rack, HDTS68 | fwdSCSI | Unsup. | EPS, K-Class | 9.05-10.20 |
| HP C3550T | 2.0 GByte tower, HDTS68 | fwdSCSI | Any | All fwdSCSI Models | 9.05-11.0 |
| HP C3551R/RZ | 4.0 GByte s800 rack, HDTS68 | fwdSCSI |  | EPS, K-Class | 9.05-10.20 |
| HP C3551T | 4.0 GByte tower, HDTS68 | fwdSCSI |  | EPS, K-Class | 9.05-10.20 |

External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C3553R | 8.0 GByte 8800 rack | fwdSCSI |  | EPS, K-Class | 9.05-10.20 |
| HP C3554U | 2.0 GB add-on for C355x tower | fwdSCSI | All | All fwdSCSI Models | 9.05-11.0 |
| HP C3555T ${ }^{\circ}$ | 1.0 GB tower | nsSCSI | Any | All Models | 9.05-10.20 |
| HP C3559U ${ }^{\circ}$ | 1.0 GB add-on | nsSCSI | Any | C355xT | 9.05-11.0 |
| HP C3578A | AutoRAID rackmount | fwdSCSI | Note ${ }^{39}$ | C-Class, J-Class, K-Class, Models 725/100, 735/125, 755/125 | 10.10-11.0 |
| HP C3579A | AutoRAID deskside | fwdSCSI | Note ${ }^{39}$ | C-Class, J-Class, K-Class, Models 725/100, 735/125, 755/125 | 10.10-11.0 |
| HP C36018 ${ }^{\circ}$ | 1.0 GByte PC tower | nsSCSI | NA | Unsupported | Unsup. |
| HP C3602B ${ }^{\circ}$ | 2.0 GByte PC tower | nsSCSI | NA | Unsupported | Unsup. |
| HP C3660R ${ }^{\circ}$ | 1.0 GByte rack | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 10.01-11.0 |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3660 ${ }^{\circ}$ | 1.0 GByte tower | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 10.01-11.0 |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3661U ${ }^{\circ}$ | 1.0 add-on | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 10.01-11.0 |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3662R ${ }^{\circ}$ | 1.0 GByte rack | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models | 10.01-11.0 |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3662T ${ }^{\circ}$ | 1.0 GByte tower | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models | 10.01-11.0 |
| Option 002 | For Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3663U ${ }^{\circ}$ | 1.0 add-on | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models | 10.01-11.0 |
| Option 002 | For Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C3682A | 4 GB Hard Disk | fwsSCSI | $\Rightarrow$ | See entry for hosting AutoRAID | $\Leftarrow$ |
| HP C3684A | 9.1 GB Hard Disk | fwsSCSI | $\Rightarrow$ | See entry for hosting AutoRAID | $\Leftarrow$ |
| HP C3724D ${ }^{\circ}$ | 1.2 GB | ndSCSI |  | ISG: Models MPS10, 735/[all, 755/[all] | 9.03-9.07 |
| HP C3724S/SC ${ }^{\circ}$ | 1.2 GB | nsSCSI |  | ISG: Models MPS10, 735/[all, 755/[all] | 9.03-9.07 |
| HP C3724T/TC ${ }^{\circ}$ | 1.2 GB | fwsSCSI | NA | No interface | NA |
| HP C3724W/WC ${ }^{\circ}$ | 1.2 GB | fwdSCSI |  | ISG: All fwdSCSI Models | 9.03-9.07 |
| HP C3725D ${ }^{\circ}$ | 2.2 GB | ndSCSI |  | ISG: Models MPS10, 735/[alll, 755/[all] | 9.03-9.07 |
| HP C3725S/SC ${ }^{\circ}$ | 2.2 GB | nsSCSI | Unsup. | ISG: Models MPS10, 735/[alll, 755/[all] | 9.03-9.07 |
| HP C3725T/TC ${ }^{\circ}$ | 2.2 GB | fwsSCSI | NA | No interface | NA |
| HP C3725W/WC ${ }^{\circ}$ | 2.2 GB | fwdSCSI |  | ISG: All fwdSCSI Models | 9.05-9.07 |
| HP C5254R ${ }^{\circ}$ | 2.0GB, rack enclosure | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |

External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C5254T | 2.0GB, tower enclosure | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5255R ${ }^{\circ}$ | Dual 2.0GB, rack enclosure | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5255 ${ }^{\circ}$ | Dual 2.0GB, tower | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models | $9.03-9.07 \perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5257U | 2.0GB, add-on | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All Models w/C525x/6x nsSCSI w/available slot | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5258R ${ }^{\circ}$ | 2.0GB, rack enclosure | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5258 ${ }^{\circ}$ | 2.0GB, tower enclosure | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5259R ${ }^{\circ}$ | Dual 2.0GB, rack enclosure | fwdSCSI |  |  |  |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5259T ${ }^{\circ}$ | Dual 2.0GB,tower enclosure | fwdSCSI |  |  |  |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5261U | 2.0GB, add-on | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM | Any | All fwdSCSI Models w/C525x/6x fwdSCSI w/ available slot | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM | Any | EPS, K-Class | 9.05-10.20 |
| HP C5262R ${ }^{\circ}$ | 4.0GB, rack enclosure | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM |  | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM |  | EPS, K-Class | 9.05-10.20 |
| HP C5262T ${ }^{\circ}$ | 4.0GB, tower enclosure | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM |  | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM |  | EPS, K-Class | 9.05-10.20 |
| HP C5263U | 4.0GB, add-on | nsSCSI |  |  |  |
| Option 001 | for Series 700 | ROM |  | All Models w/C525x/6x nsSCSI w/ available slot | $9.03-9.07 \perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM |  | EPS, K-Class | 9.05-10.20 |
| HP C5264R | 4.0GB, rack | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM |  | All fwdSCSI Models | $9.03-9.07 \perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM |  | EPS, K-Class | 9.05-10.20 |
| HP C5264T | 4.0GB, tower | fwdSCSI |  |  |  |
| Option 001 | for Series 700 | ROM |  | All fwdSCSI Models | $9.03-9.07 \perp 10.01-11.0$ |
| Option 002 | for Series 800 | ROM |  | EPS, K-Class | 9.05-10.20 |

External Hard Disks

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

## External Hard Disks

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP 7908P ${ }^{\text {oo }}$ | 16 Mb Fxd w/ctg tape | CS/80 | NOP | Never supported | Never supported |
| HP 7911 ${ }^{\circ} \mathrm{P} / \mathrm{R}$ | 28 Mb Fxd w/ctg tape | CS/80 | NOP | Unsupported | Unsup. |
| HP 7912 ${ }^{\circ} \mathrm{P} / \mathrm{R}$ | 65 Mb Fxd w/ctg tape | CS/80 | NOP | Unsupported | Unsup. |
| HP 7914CT ${ }^{\circ}$ | 132 Mb Fxd w/ctg tape | CS/80 | NOP | (See 7914P/R, and 9144A in Tapes) |  |
| HP 7914 ${ }^{\circ} \mathrm{P} / \mathrm{R}$ | 132 Mb Fxd w/ctg tape | CS/80 | NOP | Unsupported | Unsup. |
| HP 7914TD ${ }^{\circ 0}$ | 7914R and 7971A package | mixed | NOP | (See 7914R, and 7971A in Tapes) |  |
| HP 7914ST ${ }^{\circ}$ | 7914R and 7974A package | CS/80 | NOP | (See 7914R, and 7974A in Tapes) |  |
| HP $7933 \mathrm{H}^{\circ}$ | 404 MByte, fixed | CS/80 | NOP | Unsupported | Unsup. |
| HP 7933XP ${ }^{\text {oo }}$ | 404 MByte, fixed | CS/80 | NOP | Unsupported | Unsup. |
| HP 7935H ${ }^{\circ}$ | 404 MByte, removable | CS/80 | NOP | Never supported | Never supported |
| HP 7935XP ${ }^{\text {oo }}$ | 404 MByte, removable | CS/80 | NOP | Never supported | Never supported |
| HP 7936H ${ }^{\circ}$ | 308 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7936XP ${ }^{\circ}$ | 308 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7937H ${ }^{\circ}$ | 571 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7937XP ${ }^{\circ}$ | 571 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7941A ${ }^{\circ} /{ }^{\circ} \mathrm{HP7945}{ }^{\circ 0}$ | 24/55 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7942A ${ }^{\circ}$ | 7941A and 9144A package | CS/80 | NOP | Unsupported | Unsup. |
| HP 7946A ${ }^{\circ}$ | 7945A and 9144A package | CS/80 | NOP | Unsupported | Unsup. |
| HP $7957^{\circ} \mathrm{A} / \mathrm{B}$ | 80 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7957S ${ }^{\circ}$ | 107 MByte | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 7958A/B | 131/152 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 79585 ${ }^{\circ}$ | 161 MByte | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 7959B ${ }^{\circ}$ | 304 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7959S ${ }^{\circ}$ | 323 MByte | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 7962B ${ }^{\circ}$ | 152 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 7963B ${ }^{\circ}$ | 304 MByte | CS/80 | NOP | Unsupported | Unsup. |
| HP 97962B ${ }^{\circ}$ | 152 MByte add-on | CS/80 | NOP | Unsupported | Unsup. |
| HP 97963B ${ }^{\circ}$ | 304 MByte add-on | CS/80 | NOP | Unsupported | Unsup. |
| HP 9133 ${ }^{\circ} \mathrm{D} / \mathrm{H} / \mathrm{L}$ | 9134D/H/L+9122S pkg. | SS/80 | NOP | Never Supported | Never Supported |
| HP 9134 ${ }^{\circ} \mathrm{D} / \mathrm{H} / \mathrm{L}$ | 15/20/40 Mbyte | SS/80 | NOP | Never Supported | Never Supported |
| HP 9153 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | 9154A/B+9122S package | SS/80 | NOP | Never Supported | Never Supported |
| HP 9154A/B | 10/20 MByte | SS/80 | NOP | Unsupported | Unsup. |
| HP 9153 ${ }^{\circ} \mathrm{C} / \mathrm{M}$ | 10-40 Mb Modular | SS/80 | NOP | Unsupported | Unsup. |
| HP 92628 ${ }^{\text {o }}$ | Secure 7962B | CS/80 | NOP | Never Supported | Never Supported |
| HP 9263B ${ }^{\circ}$ | Secure 7963B | CS/80 | NOP | Unsupported | Unsup. |
| HP 97902B | 152 MByte add-on | CS/80 | NOP | Unsupported | Unsup. |
| HP 97903B | 304 MByte add-on | CS/80 | NOP | Unsupported | Unsup. |
| HP-Apollo A-200EF ${ }^{\circ}$ | 200 Mb hd \& 51⁄4-in. floppy | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP-Apollo A-660E ${ }^{\circ}$ | 660 Mbyte | nsSCSI | Unsup. | 400 Upgrades | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP-Apollo A-697 ${ }^{\circ}$ | External disk cluster | nsSCSI | Unsup. | Unsupported | Unsup. |

## External Hard Disk Notes

28. The SCSI mode depends on the devices installed in the cabinet, typi-
cally nsSCSI or fwdSCSI.
29. Support depends on the storage devices installed. In particular, 4 and 9 GB hard disks require LVM, and thus are not supported on 9.x.
30. The only supported version of this device is the A1094-69012.
31. The only supported versions of this device are the A2084-69002 and A2095-69001.
32. Although once configured, it is possible to boot from a disk array, a singlespindle disk is required for initial cold-load installation and crash recovery.
33. HP-UX 9.01 or 9.03 also supported w/ C3302A patch.
34. 9.03 also supported with patch.
35. Supported for booting only on 10.01 or later, and only on platforms: BClass, C-Class, J-Class, TelePACE, Models 725/100, 725/100XC, 735/125, $743 i, 748 i, 755 / 125$. Supported as data (mounted) disk only on earlier HPUX releases and all other fwdSCSI platforms (any release). Use on 9.05 and 9.07 requires patch on all platforms.
36. Supported for booting only on 10.01 or later. Supported as data (mounted) disk only on earlier HPUX releases. Use on 9.05 and 9.07 requires patch on all platforms.
37. The only supported versions of this device are the A2084-69013 and A2084-69018.
38. The only supported versions of this device are the A2084-69015 and A2084-69016.
39. Boot supported only on B132L and above, C160 and above, J280 and above and K-Class.
40. 4 GB drives are bootable only on 10.01 and later. They may be used as data disks (mounted volumes) on some earlier releases. LVM is required if boot disk.
41. 9 GB drives are bootable and mountable only on 10.01 and later. LVM is required in all cases.

## Removable Media Magnetic Disks

HP PA-RISC Workstations support both nsSCSI and floppy bus (FDD) interfaced drives. HP-IB SS/80 drives have not been tested with the 25560A EISA HP-IB interface and may not function correctly.

Booting is not supported from floppy drives. Some SPUs, however, may attempt to boot if media is in the drive (the HP-UX install kernel has not been small enough to fit on floppies since release 5.x).

## Floppy File Systems

This table summarizes floppy file system capabilities on supported drives.

Floppy File System Support

| File <br> System | Description | Support |
| :--- | :--- | :--- |
| HFS | HP-UX Native | mediainit, format, mount, and all normal Unix commands |
| FAT | File Allocation Table (native DOS format) | Transparent access via SoftPC and WABI (Windows Application Binary Interface). Outside <br> SoftPC and WABI: mediainit, file manipulation via doscp(1)"dosutil" command suite, but no <br> format or mount. |
| Mac | Apple Macintosh | transparent access for 1.44MB and 720KB CAV (PC format) media via MAE (Macintosh <br> Application Environment). Older Apple native (CLV) media not supported by drives. No <br> Mac FS support outside MAE. |
| LIF | HP Logical Interchange Format | mediainit, file manipulation via lifcp(7) "lifutil" command suite. No format or mount. |
| SDF | HP Structured Directory Format (Series 500) | mediainit, file manipulation via sdfcp(1) "sdfutil" command suite. No format or mount. |
| VFAT | Virtual FAT: Windows 95 and Windows NT long file- <br> name | no support |
| NTFS | Windows NT native | no support |
| HPFS | OS/2 native | no support |

## Removable Media Magnetic Drives

by Product Number
For information on SCSI notation, see
"SCSI Notation" on page 127.
Flexible Disk Drive Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1968A ${ }^{\circ}$ | 1.4 MB 3½-in. internal | nsSCSI | NOP | Models 750, 755/99, 755/ 125 | 8.05-10.20 |
| HP A1984A ${ }^{\circ}$ | 1.4 MB 31/2-in. internal | nsSCSI | NOP | Models 720, 730, 735/99, 735/125 | 8.05-10.20 |
| HP A2073A ${ }^{\circ}$ | 1.4 MB 3¹⁄2-in. internal | nsSCSI | NOP | Model 710e | 8.05-9.07 $\perp$ 10.01-10.20 $\nabla$ |
| HP A2223A ${ }^{\circ}$ | 1.4 MB 3½-in. internal | nsSCSI | NOP | Models 705, $710{ }^{42}$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2645A | 1.4 MB 3½-inch internal | nsSCSI | NOP | $\begin{aligned} & \text { TelePACE, Models 743, 744, } \\ & 745 i, 745 / 132 \mathrm{~L}, 747 i, 748 i, \\ & 748 / 132 \mathrm{~L}, 748 / 165 \mathrm{~L} \end{aligned}$ | 9.03-11.0/32 |

Flexible Disk Drive Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A2802A | 1.4 MB 3¹⁄2-inch internal | nsSCSI | NOP | Models 715/33, 715/50, 715/ 64,715/75, 715/80, 715/100, 725/100 | 9.0-11.0/32 |
| HP A2814A | 1.4 MB 3½-inch internal | nsSCSI | NOP | Model 725 | 9.0-10.20V |
| HP A2942A | 1.4 MB 3½-inch internal |  | NOP | Series 800 | Unsup. |
| HP A4029A | 1.4 MB 3½-inch internal | FDD | NOP | B-Class | 10.20-11.0/32 |
| HP A4068A | 1.4 MB 3½-inch internal | FDD | NOP | Model 712 | 9.03-11.0/32 |
| HP A4178A | 1.4 MB 3½-inch internal | nsSCSI | NOP | Model 735/99, 735/125 | 9.0-10.20 |
| HP A4180A | 1.4 MB 3½-inch internal | FDD | NOP | Models 715/64, 715/80, 715/ 100,715/100XC | 9.05-9.07 $\perp 10.01-11.0 / 32$ |
| HP A4183A | 1.4 MB 3½-inch internal | FDD | NOP | Model 755 | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A4184A | 1.4 MB 3½-inch internal | FDD | NOP | Series 300 | Unsup. |
| HP A4283A | 1.4 MB 31⁄2-in. int., parchment | nsSCSI | NOP | J-Class | 9.05-11.0 |
| HP A4283D | 1.4 MB 31⁄2-inch int., quartz | nsSCSI | NOP | J-Class | 9.05-11.0 |
| HP A4464A ${ }^{043}$ | 1.4 MB 3½-inch internal | FDD | NOP | C-Class | 9.05-11.0 |
| HP A4464D ${ }^{44}$ | 1.4 MB 3½-inch internal | FDD | Unsup. | Models C110, C160, C160L, C180, C200, C240 | 10.20-11.0 |
| HP C5205A | 1.4 MB 3½-inch internal | FDD | Unsup. | Netstations only | Unsup. |
| HP D1667A ${ }^{\circ}$ | 3.5-in. for Vectra | FDD | Unsup. | Unsupported | Unsup. |
| HP D2035A ${ }^{\circ}$ | 1.4 MB 31⁄2-in., w/ Vectra kit | FDD | Unsup. | Unsupported | Unsup. |
| HP D2036A ${ }^{\circ}$ | 1.2 MB 5 $1 / 4$-in., w/ Vectra kit | FDD | Unsup. | Unsupported | Unsup. |
| HP D2881A ${ }^{\circ}$ | 1.2 MB 51/4-in., w/ Vectra kit | FDD | Unsup. | Unsupported | Unsup. |
| HP D4390A | 100MB ZIP Drive | EIDE | N/A | No interface | N/A |
| HP D6650A | 100MB ZIP Drive | EIDE | N/A | No interface | N/A |
| HP 9122C ${ }^{\circ}$ | 1.6 Mbyte 3112 -inch external | SS/80 | NOP | Unsupported | Unsup. |
| HP 9122D ${ }^{\circ 0} / \mathrm{S}^{\circ 0}$ | 788 Kbyte 31⁄2-inch external | SS/80 | NOP | Never Supported | Never Supported |
| HP 9125S ${ }^{\circ}$ | 360 Kbyte $5^{1 / 4}$-inch external | SS/80 | NOP | Never Supported | Never Supported |
| HP 9127A ${ }^{\circ}$ | 360 Kbyte $51 / 4$-inch external | SS/80 | NOP | Never Supported | Never Supported |
| HP-Apollo AADDSFLP ${ }^{\text {º }}$ | 1.2 Mbyte $5^{1 / 4} 4$-inch external | nsSCSI | NOP | Never Supported | Never Supported |

## Flexible Disk Notes:

42. Not supported on Model 710e (upgraded Model 425e).
43. Parchment White color.
44. Quartz Gray color.

## CD-ROM, CDR/CD-WORM and CD-RW Drives

HP PA-RISC Workstations supports only nsSCSI CD-ROM drives. Booting is supported only for drives connected to the built-in nsSCSI interface.

The first table in this section summarizes CD-ROM file system capabilities on supported drives.

No CD-ROM authoring capability is presently available from HP for HPUX, but is available from independent software vendors.

## CD File Systems

Only Single-Session CDs are presently supported.

See footnote ${ }^{47}$ following drive table for suppliers of pre-mastering and CDR software for HP-UX.

CD-ROM File System Support

| File System | Description | Support |
| :--- | :--- | :--- |
| CD-DA | RedBook CD audio | Audio playback supported via HP-UX Audio API and third-party tools. Audio Extraction <br> (read audio as data) not supported. No tools supplied for mastering audio CDs. |
| CDi | CD-ROM Interactive | Not supported. |
| <games» | Various proprietary game formats. | Not supported. |
| HFS | HP-UX Native | Mount and read support for HP-supplied media. Pre-mastering HFS CD-ROMs requires CD <br> Studio or similar 3rd-party product. |
| ISO 9660 | Industry-standard "8.3" CD-ROM filesystem | Mount and read support. Due to strict HP-UX implementation of ISO upper-case names <br> and ";" file version numbers, mounting ISO 9660 CDs via pfs subsystem is recommended. <br> Pre-mastering ISO 9660 CD-ROMs requires CD Studio or similar 3rd-party product. |
| Joliet | Windows 95 8.3 plus 64-char. long filename | Not supported for mount or read. Pre-mastering Joliet CD-ROMs requires CD Studio or <br> similar 3rd-party product. |
| LIF | HP Logical Interchange Format | Used only for bootable HP-UX install media. Not supported for other uses, as the 2048- <br> byte sector size on CD violates the LIF specification and causes errors outside the install <br> process. |
| PhotoCD | Kodak .PCD extensible write-once filesystem | Not supported |
| RockRidge | Industry-standard Unix-like CD-ROM filesys- <br> tem. Has long filename support. | Mount and read support in HP-UX 9.x and later, provided via pfs subsystem that mounts <br> CD via vnode. Pre-mastering RockRidge 9660 CD-ROMs requires CD Studio or similar 3rd- <br> party product. |
| Romeo | Windows 95 128-char. long filename. | Not supported. |
| VideoCD | CD-ROM XA Mode 2 Form 2 disc with ISP <br> $9660 ~ a n d ~ C D i ~ v i d e o . ~$ | Not supported. |

## CD-ROM, CDR, CD-E and CD-RW Drives

For information on SCSI abbreviations, see "SCSI Notation" on page
127.

CD-ROM Drive Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1448A ${ }^{\circ}$ | Internal 1x | nsSCSI | Unsup. | Model 715s ${ }^{45}$ | 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A1985A ${ }^{\circ}$ | Internal 1x | nsSCSI | Any | Models 750, 755/[all] | 8.05-10.20 $\overline{\text { l }}$ |
| HP A1999A ${ }^{\circ}$ | External, 1x and 2x | nsSCSI | Any | Models MPS10, 705, 710, 715/33, 715/50, 715s/t, 720, 725/50, 725/75, 730, 735/(all), 742i, 745i/(all), 747i/(all), 750, 755/(all). Note ${ }^{45}$ | 8.05-10.20 |
| HP A2074A ${ }^{\circ}$ | s400, internal | nsSCSI | Unsup. | Model 710e. Note ${ }^{45}$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2224A ${ }^{\circ}$ | Internal 1x | nsSCSI | Set.A | Models 705, 710 ${ }^{46}$ Note ${ }^{45}$ | 8.05-9.07 $\perp 10.01-10.20 \nabla$ |
| HP A2253A | Internal 1x, s3x2 | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP A2644A | Internal 2 x or 4x | nsSCSI | Any | TelePACE, Models 745i, 747i, 748i | 9.0-11.0/32 |
| HP A2655A ${ }^{\circ}$ | External 2 x | nsSCSI | Any | Models J200, J210, 712/(all), 715/64, 715/ 80, 715/100, 715/100XC, 725/100, 743i/ [all], v743/[alll, 748i/[all] | 9.03-11.0/32 |
| HP A2803A | Internal 1x or 2x | nsSCSI | IODC 1.1 | Models 715/33, 715/50, 715/64, 715/75, 715/ 80,715/100,725/100 | 9.0-11.0/32 |
| HP A2817A | Internal 2x or 4x | nsSCSI | IODC 1.1 | Model 725 | 9.0-10.20 |
| HP A3086A | Internal 2x | nsSCSI | Unsup. | Series 800 | Unsup. |
| HP A3184A ${ }^{\circ}$ | Internal 2x | nsSCSI | Any | EPS20, Model K410 | 10.01-10.20 |
| HP A3416A ${ }^{\circ}$ | Internal 4x | nsSCSI | Any | K-Class | 10.01-10.20 |
| HP A3715A | Internal 12x | nsSCSI | Any | K-Class | 10.01-11.0 |
| HP A4171A | Internal 4x | nsSCSI | Any | B-Class | 10.20-11.0/32 |
| HP A4282A | Internal 4x, parchment | nsSCSI | Any | $\begin{aligned} & \text { Models C100, C110, J200, J210, J210XC, } \\ & \text { J282 } \end{aligned}$ | 9.05-11.0 |
| HP A4325A | Internal 4x, parchment | nsSCSI | Any | Models J200, J210, J210XC, J282, 715/64, 715/80, 715/100, 725/100, 748i//allu, 755/ 125 | 9.03-11.0 |
| HP A4325D | Internal 4x, quartz | nsSCSI | Any | Models J200, J210, J210XC, J282 | 9.03-11.0 |
| HP A4326A | Internal 4x | nsSCSI | Any | Models 715/64, 715/80, 715/100, 715/ 100XC, Upgrades to B-Class | 9.03-11.0/32 |
| HP A4327A | Internal 4x | nsSCSI | Any | Model 725/100 | 9.03-11.0/32 |
| HP A4328A ${ }^{\circ}$ | Internal 4x | nsSCSI | Any | Model 755/125 | $9.03-10.20 \nabla$ |
| HP A $4329 \mathrm{~A}^{\circ}$ | Internal 4x | nsSCSI | Any | TelePACE, Models 748i, 748/132L | $9.05-10.20 \nabla$ |
| HP A4329D | Internal 4x, quartz | nsSCSI | Any | TelePACE, Models 743, 744, 748i, 748/132L | 9.05-10.20 |
| HP A4463A ${ }^{\circ}$ | Internal 4x | nsSCSI | Any | Models C160, C160L. C180 | 10.20-11.0 |
| HP A4463D | Internal 4x | nsSCSI | Any | Models C160, C160L. C180 | 10.20-11.0 |
| HP A4489A | Internal, 12x | nsSCSI |  | Models 715/64, 715/80, 715/100 | 9.03-9.07 $\perp 10.01-11.0 / 32$ |
| HP A4494A | Internal, 12x | nsSCSI |  | Model 725/100 | 9.03-9.07 $\perp 10.01-11.0 / 32$ |
| HP A4495A | Internal, 12x | nsSCSI |  | Models 745, 747 | 9.03-9.07 $\perp$ 10.01-10.20 |

## CD-ROM Drive Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A4496A | Internal, 12x | nsSCSI | Any | Models 743, 744, 745/132L, 748i/64, 748i/ 100, 748i/132L, 748/165L | 9.03-9.07 $\perp$ 10.01-11.0/32 |
| HP A4497A | Internal, 12x | nsSCSI |  | Model 755/125 | 9.03-9.07 $\perp$ 10.01-10.20 |
| HP A4498A | Internal, 12x | nsSCSI | Any | B-Class | 9.03-9.07 $\perp$ 10.01-11.0/32 |
| HP A4506A | Internal, 12x | nsSCSI | Any | C-Class | 9.03-9.07 $\perp 10.01-11.0$ |
| HP A4507A | Internal 12x | nsSCSI | Any | J-Class | 9.03-9.07 $\perp 10.01-11.0$ |
| HP A4953A | Internal 12x | nsSCSI | Any | B-Class, C-Class | 10.20-11.0 |
| HP C1707A ${ }^{\circ}$ | Series 6100 Model 600/A external | CS/80 | NOP | Unsupported | Unsup. |
| Series 6000 for HP-UX |  |  |  |  |  |
| HP C2212A, HP C2213A ${ }^{\circ 0}$ Option 004 | Series 6000 external mass storage enclosure for HP-UX | nsSCSI | Any | See C2293A |  |
| HP C2293A ${ }^{\circ}$ | 1x CD-ROM upgrade for C2212-14 | nsSCSI | Any | Models MPS10, 705, 710, 715/33, 715/50, 715s/t, 720, 725/50, 725/75, 730, 735/(all), 742i, 745i/(all), 747i/(all), 750, 755/(all). Note ${ }^{45}$ | 8.05-10.20 |
| HP C2293 ${ }^{\circ}$ | 1x add-in for C2216/17T | nsSCSI | Any | Models MPS10, 705, 710, 715/33, 715/50, $715 s / t, 720,725 / 50,725 / 75,730,735 /(a l l)$, 742i, 745i/(all), 747i/(all), 750, 755/(all). Note ${ }^{45}$ | 8.07-10.20 |
| HP C2293U | 1x add-in for C3020...24T | nsSCSI | Any | Models MPS10, 705, 710, 715/33, 715/50, 715s/t, 720, 725/50, 725/75, 730, 735/(all), 742i, 745i/(all), 747i/(all), 750, 755/(all). Note ${ }^{45}$ | 9.0-10.20 |
| HP C2943A ${ }^{\circ}$ | 2x external | nsSCSI | Any | All Models | 9.03-11.0/32 |
| HP C2807A | SureStore 32x CD-ROM Drive |  |  |  |  |
| HP C2944A ${ }^{\circ}$ | 4x external, parchment, HDTS50 | nsSCSI | Any | All Models | 9.03-11.0/32 |
| HP C2944D ${ }^{\circ}$ | 4x external, quartz, HDTS50 | nsSCSI | Any | All Models | 9.03-11.0/32 |
| HP C2948A ${ }^{\circ}$ | 12x CD-ROM, External | nsSCSI |  | Unsupported (s800 product) | Unsup. |
| HP C2987A ${ }^{\circ}$ | 8-bay networked CD-ROM tower |  |  |  |  |
| HP C2988A | SureStore CD-ROM Tower. 8bay networked CD-ROM tower | fnsSCSI |  |  |  |
| HP C2989A% ${ }^{\text {B }}$ | SureStore 12x CD-ROM drive, stand-alone | nsSCSI |  |  |  |
| HP C2997A ${ }^{\circ}$ | 12x CD-ROM drive, hot-pluggable | nsSCSI |  | C2987A/88A Towers only |  |
| HP C3560U ${ }^{\circ}$ | 2x CD-ROM for C304xT | nsSCSI | Any | All Models | 9.03-11.0/32 |
| HP C4310A | CD-ROM, 12x, external, desktop | nsSCSI | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| HP C4311A | CD-ROM, 12x, external, rackable | nsSCSI | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| HP C4317RZ \#101 | CD-ROM, 12x, external, rackable | nsSCSI | Any | All Models | 9.03-9.07 $\perp 10.01-11.0$ |

## CD-ROM Drive Support

| Vendor \& Product <br> Number | Abbreviated Product <br> Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| HP C4324A |  |  |  |  |  |

## CD-ROM Notes:

45. Drives which identify as XM3201B do not function correctly on B-Class, CClass, J-Class, Models 712/(all), 715/

64, 715/80, 715/100, 715/100XC, 725/ 100, 743/(all), and 748/(all). Drives which identify as XM3301B do not
function correctly on these models if another CD-ROM drive is present on the same bus.
46. Not supported on Model 710e (upgraded Model 425e).
47. Software available from:

Elektroson BV, The Netherlands +31-
(0)40-2515065
http://www.elektroson.com
T.A.M.S., Loveland CO, 970-669-6553

Young Minds, Inc., 909-335-1350
http://www.ymi.com/

## Magneto-Optic Drives

MO drives are not supported for booting, although booting attempts may occur in some configurations.

Only re-writable media is supported by native HP-UX in Multi-Function (MF) drives. Drives obtained via OEMs or other third-party suppliers may include software that supports MF.

In general, some amount of applica-tion-level support is required to fully utilize all MO, MF and auto-changer features, such as: virtual mount, online drive replacement, etc. Ensure that both system-level and applica-tion-level support is provided for the device intended.

Upgrade kits are available to bring older MO auto-changers up to current technology.

For all other supported operations, MO drives may be connected via LAN (NFS, where supported by device) or to either the built-in or an add-in sin-gle-ended SCSI (nsSCSI) interface.

Wide differential SCSI (fwdSCSI) was planned for support in 7/96.
Single-ended Wide SCSI (fwsSCSI) MO configurations are not supported.

Note: MO auto-changers often have more than one SCSI ID (address), perhaps as many as $1+<$ number of drives in changer>. Unless you are using a recent changer model, with an HP-UX release that supports MO SCSI LUNs
(Logical Unit Numbers), check carefully to ensure that the intended SCSI bus has ample spare SCSI IDs.

HP-UX releases through 9.07 supported logically mounting every surface in an MO auto-changer, via the autoch driver.

Due to the "thrashing" behavior that this can cause during some system operations, HP-UX 10.0 and later, via the ssrfc driver, only support simultaneously mounting as many surfaces as there are drive mechanisms in the autochanger.

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

## Magneto-Optic Disk Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1100A ${ }^{\circ}$ | Model 20XT Optical MF Jukebox | nsSCSI | Unsup. | OEM Supported | $9.03{ }^{48}$-10.10 |
| HP C11008 ${ }^{\circ}$ | Model 20XT Optical MF Jukebox, LDBL50 | xxSCSI ${ }^{49}$ | Unsup. | All Models | $9.03{ }^{48}-11.0, \mathrm{OB}^{52}, \mathrm{OS}^{50}$ |
| HP Cl100F | SureStore 40fx | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CIIOOG | SureStore 40fx | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP Cliooh | SureStore 40fx | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1100J | SureStore 80ex, 83GB, 16-slot, 1-drive |  |  |  |  |
| HP C1101A ${ }^{\circ}$ | Model 20XT Optical MF Jukebox | ndSCSI | Unsup. | All Models | $9.03{ }^{48}$-10.20 |
| HP Cl101F | SureStore 40fx | ndSCSI | Unsup. | Reseller supported | $10.20-11.0, O B^{52}$ |
| HP C1101H | SureStore 40fx | ndSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1102A ${ }^{\circ}$ | SureStore 20XT LAN Jukebox | 802.3, NFS | Unsup. | OEM Supported | $9.03{ }^{48}-10.20$ |
| HP C11028 ${ }^{\circ}$ | SureStore 20XT LAN Jukebox | 802.3, NFS | NOP | All Models | $9.03{ }^{48}$-10.20 |
| HP C1103A ${ }^{\circ}$ | SureStore 20XT | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1104A ${ }^{\circ}$ | SureStore 165st Jukebox, reseller | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1104B ${ }^{\circ}$ | SureStore 165st Jukebox | xxSCSI | Unsup. | All Models | 9.05-10.20, OB $^{52}$, OS $^{50}$ |
| HP C1104F | SureStore 330fx, 2drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1104G | SureStore 330fx, 2drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1104H | Model 330fx, 2drive | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1104J | SureStore 660ex, 665GB, 128-slot, 4-drive |  |  |  |  |
| HP C1105F | SureStore 330fx, 6 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1105G | SureStore 330fx, 6 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1105H | Model 330fx, 6 drive | xxSCSI | Unsup. | OEM Supported | Unsup. |

Magneto-Optic Disk Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1105J | SureStore 660ex, 665GB, 128-slot, 6-drive |  |  |  |  |
| HP C1106A ${ }^{\circ}$ | SureStore 165st Jukebox, OEM | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP C1107A ${ }^{\circ}$ | SureStore 300st jukebox, reseller | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C11078 ${ }^{\circ}$ | SureStore 300st Jukebox | xxSCSI | Unsup. | All Models | $9.05-10.20, O^{52}, \mathrm{OS}^{50}$ |
| HP C1107F | SureStore 600fx, 6 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1107G | SureStore 600fx, 6 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1107H | Model 600fx, 6 drive | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP C1107J | SureStore 1200ex, 1237GB, 238-slot, 6drive |  |  |  |  |
| HP C1108F | SureStore 600fx, 8 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1108G | SureStore 600fx, 8 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1108H | Model 600fx, 8 drive | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP C1109A ${ }^{\circ}$ | SureStore 300st Jukebox, OEM | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP CII10F | SureStore 600fx Jukebox, 10 Dr. | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CII10G | SureStore 600fx Jukebox, 10 Dr. | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP CIIIOH | SureStore 600fx Jukebox, 10 Dr. | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP CIIIOJ | SureStore 1200ex, 1237GB, 238-slot, 10drive |  |  |  |  |
| HP CIIIIJ | SureStore 1200ex, 1237GB, 238-slot, 4drive |  |  |  |  |
| HP CIII2F | SureStore 600fx Jukebox, 12 Dr. | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CIII2G | SureStore 600fx Jukebox, 12 Dr. | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1112H | SureStore 600fx Jukebox, 12 Dr. | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP C1113J | 8x MO drive | fnsSCSI | Unsup. |  |  |
| HP CII14F | SureStore 2600fx 2.6GB drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1114G | SureStore 2600fx 2.6GB drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1114H | Model 2600fx 2.6GB drive | xxSCSI | Unsup. | OEM supported | Unsup. |
| HP Cl114J | SureStore Model 5200ex, 5.2GB, standalone | fnsSCSI | Unsup. |  |  |
| HP CII15F | SureStore 40fx, 2 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CII15G | SureStore 40fx, 2 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1115H | SureStore 40fx, 2 drive | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1115J | SureStore 80ex, 83GB, 16-slot, 2-drive |  |  |  |  |
| HP CII16F | SureStore 40fx, 2 driver | ndSCSI | Unsup. | Reseller supported | Unsup. |
| HP C1116H | SureStore 40fx, 2 driver | ndSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1150A ${ }^{\circ}$ | SureStore 40XT Optical Jukebox | nsSCSI or ndSCSI | Unsup. | OEM Supported | $9.03{ }^{48}$-9.07 |
| HP C11508 ${ }^{\circ}$ | SureStore 40XT Optical Jukebox, HDTS50 | nsSCSI or ndSCSI | Unsup. | All Models | $9.03{ }^{48}-11.0, O B^{52}, \mathrm{OS}^{50}$ |
| HP C1150F | SureStore 80fx, 2 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP Cl150G | SureStore 80fx, 2 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP Cl150H | SureStore 80fx, 2 drive | xxSCSI | Unsup. | OEM Supported | Unsup. |

Magneto-Optic Disk Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1150J | SureStore 160ex, 166GB, 32-slot, 2-drive |  | Unsup. |  |  |
| HP C1152A ${ }^{\circ}$ | SureStore 40ST LAN Jukebox | $\begin{aligned} & \hline 802.3, \\ & \text { NFS } \end{aligned}$ | NOP |  |  |
| HP C1152B ${ }^{\circ}$ | SureStore 40ST LAN Jukebox | $\begin{aligned} & \hline 802.3 \\ & \text { NFS } \end{aligned}$ | NOP |  |  |
| HP C1153A ${ }^{\circ}$ | SureStore 40ST | xxSCSI | Unsup. |  |  |
| HP C1160A ${ }^{\circ}$ | SureStore 80ST Optical Library | $\begin{aligned} & \text { nsSCSI or } \\ & \text { ndSCSI } \end{aligned}$ | Unsup. | OEM Supported | $9.03^{48}-9.07$ |
| HP C1160B ${ }^{\circ}$ | SureStore 80ST Optical Library | $\begin{aligned} & \text { nsSCSI or } \\ & \text { ndSCSI } \end{aligned}$ | Unsup. | All Models | $9.03{ }^{48}-11.0, \mathrm{OB}^{52}, \mathrm{OS}^{50}$ |
| HP C1160F | SureStore 160fx, 4 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CI160G | SureStore 160fx, 4 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP C1160H | SureStore 160fx, 4 drive | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1160J | SureStore 320ex, 332GB, 64-slot, 4-drive |  | Unsup. |  |  |
| HP C1162A ${ }^{\circ}$ | SureStore 80ST LAN Jukebox | $\begin{array}{\|l} \hline 802.3, \\ \text { NFS } \end{array}$ | NOP |  |  |
| HP C1162B ${ }^{\circ}$ | SureStore 80ST LAN Jukebox | $\begin{aligned} & \hline 802.3, \\ & \text { NFS } \end{aligned}$ | NOP |  |  |
| HP C1163A ${ }^{\circ}$ | SureStore 80ST | xxSCSI | Unsup. |  |  |
| HP C1170A ${ }^{\circ}$ | SureStore 100ST Optical Jukebox | $\begin{aligned} & \text { nsSCSI or } \\ & \text { ndSCSI } \end{aligned}$ | Unsup. | OEM Supported | $9.03^{48}-9.07$ |
| HP C1170B ${ }^{\circ}$ | SureStore 100ST Optical Jukebox | $\begin{aligned} & \text { nsSCSI or } \\ & \text { ndSCSI } \end{aligned}$ | Unsup. | All Models | $9.03{ }^{48}-11.0, \mathrm{OB}^{52}, \mathrm{OS}^{50}$ |
| HP CII7OF | SureStore 200fx, 2 drive | xxSCSI | Unsup. | Reseller supported | Unsup. |
| HP CII70G | SureStore 200fx, 2 drive | xxSCSI | Unsup. | All Models | 9.05-11.0, OB ${ }^{52}$ |
| HP Cl170H | SureStore 200fx, 2 drive | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP Cl170J | SureStore 400ex, 395GB, 76 slot, 2-drive |  |  |  |  |
| HP C1172A ${ }^{\circ}$ | SureStore 100ST LAN Jukebox | 802.3, NFS | NOP |  |  |
| HP C11728 ${ }^{\circ}$ | SureStore 100ST LAN Jukebox | 802.3, NFS | NOP |  |  |
| HP C1173A ${ }^{\circ}$ | SureStore 100ST | xxSCSI |  |  |  |
| HP C1700A ${ }^{\circ}$ | Model 20GB/A MO autochanger | nsSCSI | Unsup. | Models J200, J210, 712/(all), 715/ 64, 715/80, 715/100, 715/100XC, 720, 725/100, 730, 743i/(all), 745i/(all), 747i/(all), 748i/(all) 750 and 400 Upgrades | 8.07-10.01 |
| HP C1700C ${ }^{\circ}$ | Model 6300/650C multi-function standalone |  |  |  |  |
| Option 001 | Single-ended | nsSCSI | Unsup. | All Models | 9.03-11.0, OB ${ }^{52}$ |
| HP C1700M ${ }^{\circ}$ | Model 20GB/M multi-function | nsSCSI | Unsup. | AIMS on Series 800 only | Unsup. |
| HP C1700 ${ }^{\circ}$ | Model 40T Optical Jukebox | nsSCSI | Unsup. | All Models | $9.03{ }^{48}-11.0, \mathrm{OB}^{52}, \mathrm{OS}^{50}$ |

Magneto-Optic Disk Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1701A ${ }^{\circ}$ | Model 650/A single MO | nsSCSI | Unsup. | Models J200, J210, 712/(all), 715/ 64, 715/80, 715/100, 715/100XC, 720, 725/100, 730, 743i/(all), 745i/(all), 747i/(all), 748i/(all) 750 and 400 Upgrades | 8.07-11.0, OB ${ }^{52}$ |
| HP C1701C ${ }^{\circ}$ | 650 MB stand-alone multi-function | nsSCSI | Unsup. | All Models | 9.03-11.0 |
| HP C1701M ${ }^{\circ}$ | 650 MB stand-alone multi-function | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1703A ${ }^{\circ}$ | Model 10GB/A MO autochanger | nsSCSI | Unsup. | Models 720, 725/100, 730, 745i/ (all), 747i/(all), 750 and 400 Upgrades | 8.07-10.20 |
| HP C1704A ${ }^{\circ}$ | Model 60GB/A MO autochanger |  |  |  |  |
| Option 001 | Single-ended SCSI | nsSCSI | Unsup. | Models J200, J210, 712/(all), 715/ 64, 715/80, 715/100, 715/100XC, 720, 725/100, 730, 743i/(all), $748 i /($ all $) 750$ and 400 Upgrades | 8.07-10.20 |
| Option 002 | Differential SCSI | ndSCSI | Unsup. | Unsupported | Unsup. |
| HP C1704C ${ }^{\circ}$ | 57 GB multi-function optical library |  |  |  |  |
| Option 001 | Single-ended | nsSCSI | Unsup. | All Models | $9.03^{48}-11.0, O^{52}$ |
| Option 002 | Differential | ndSCSI |  |  |  |
| HP C1704M ${ }^{\circ}$ | Model 60GB/M multi-function | nsSCSI | Unsup. | AIMS on Series 800 only | Unsup. |
| HP C1704T ${ }^{\circ}$ | Model 120T Optical Jukebox, LDBL50 |  |  |  | OS ${ }^{50}$ |
| Option 001 | Single-ended | nsSCSI | Unsup. | All Models | $9.05^{48}$-11.0, OB $^{52}$ |
| HP C1705A ${ }^{\circ}$ | Model 100GB/A MO autochanger |  |  |  |  |
| Option 001 | Single-ended SCSI | nsSCSI | Unsup. | Models 720, 730, 745i/(all), 747i/ (all), 750 and 400 Upgrades | 8.07-10.10 |
| Option 002 | Differential | ndSCSI | Unsup. |  |  |
| HP C1705C ${ }^{\circ}$ | 44 GB multi-function optical library |  |  |  |  |
| Option 001 | Single-ended SCSI | nsSCSI | Unsup. | All Models | $9.05^{48}-11.0, O B^{52}$ |
| Option 002 | Differential | ndSCSI | Unsup. |  |  |
| HP C1705M ${ }^{\circ}$ | Model 100GB/M multi-function | nsSCSI | Unsup. | AIMS on Series 800 only | Unsup. |
| HP C1705T ${ }^{\circ}$ | Model 200T Optical Jukebox, LDBL50 |  |  |  | OS ${ }^{50}$ |
| Option 001 | Single-ended | nsSCSI | Unsup. | All Models | $9.05^{48}$-10.20, OB $^{52}$ |
| HP C1708C ${ }^{\circ}$ | Model 10LC multi-function Optical Library |  |  |  |  |
| Option 001 | Single-ended SCSI | nsSCSI | Unsup. | All Models | $9.05^{48}-10.20, O B^{52}$ |
| Option 002 | Differential | ndSCSI | Unsup. |  |  |
| HP C1708T ${ }^{\circ}$ | 20 GB multi-function optical library |  | Unsup. |  | $10.01-11.0, \mathrm{OB}^{52}, \mathrm{OS}^{50}$ |
| HP C1710A ${ }^{\circ}$ | 20 GB lib (OEM) | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1710C ${ }^{\circ}$ | Model 10C MF lib (distr) | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1710M ${ }^{\circ}$ | (OEM) | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1711C ${ }^{\circ}$ | 650 MB stand-alone MF | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1713C ${ }^{\circ}$ | Model 20C (distr) | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1713M ${ }^{\circ}$ | 10 GB library (OEM) | xxSCSI | Unsup. | Unsupported | Unsup. |

Magneto-Optic Disk Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1714C ${ }^{\circ}$ | Model 60C (57 GB) library (OEM) | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1714 ${ }^{\circ} / \mathrm{T}$ | Model 60 (distr) | xxSCSI | Unsup. | Unsupported | Unsup. |
| HP C1715C ${ }^{\circ}$ | Model 100C (OEM) | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1715 ${ }^{\circ} /{ }^{\text {T }}$ | Model 100 MF (OEM) | xxSCSI | Unsup. | OEM Supported | Unsup. |
| HP C1716C ${ }^{\circ}$ | Drive mechanism | nsSCSI | ? | Supported only as a component of an otherwise supported product. | ' |
| HP C1716F ${ }^{\circ}$ | Drive mechanism | ndSCSI | ? | Supported only as a component of an otherwise supported product. | 「 |
| HP C1718C ${ }^{\circ}$ | 10LC 10 GB MF lib | nsSCSI | Unsup. | OEM Supported |  |
| Option 002 | Differential | ndSCSI | Unsup. | OEM Supported |  |
| HP C1718CA ${ }^{\circ}$ | Model 10LC Optical Jukebox | xxSCSI | Unsup. | Unsupported (PC version) | Unsup. |
| HP C1718T ${ }^{\circ}$ | 20 GB MF (OEM) | nsSCSI | Unsup. | OEM Supported |  |
| $\begin{array}{\|l\|} \hline \text { HP C2212A } \\ \text { Option } 005 \end{array}$ | (see C2294A) |  |  |  |  |
| $\begin{aligned} & \text { HP C2213A }{ }^{\circ \circ} \\ & \text { Option } 005^{\circ} \end{aligned}$ | (see C2294A) |  |  |  |  |
| HP C2294A ${ }^{\circ}$ | Magneto-Optic upgrade for C2212-14 | nsSCSI | Unsup. | C2212/13/14/A/B | 8.05-10.20 |
| HP C2294T ${ }^{\circ}$ | MO add-on for C2216/17T | nsSCSI | Unsup. | C2261/17T | 8.07-10.20 |
| HP C2550A ${ }^{\circ}$ | Model 1300T 1.3 GByte multi-function MO drive | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C2550 ${ }^{\circ} / \mathrm{C}$ | 1.3 GByte multi-function MO drive, LDBL50 | nsSCSI | Uns. ${ }^{51}$ | All Models | $10.01-11.0, O^{52}$ |
| HP C2550 ${ }^{\circ}$ | 1.3 GB multi-function MO drive | nsSCSI | Unsup. | All Models | $9.05{ }^{53}-10.20$ |

## Magneto-Optic Notes:

48. Requires C258xA or C259xA AMASS or OmniBack-II software.
49. Optical auto-changers are usually available with nsSCSI, ndSCSI, fwsSCSI and fwdSCSI. Only nsSCSI is officially supported at this time. fwdSCSI is planned for $7 / 96$. ndSCSI, via the A25525B EISA card is not offi-
cially supported. HP provides no fwsSCSI interface for HP PA-RISC Workstations.
50. Supported by OmniStorage, B197xBA, 9.01 and later.
51. A "direct access" switch on the rear of the drive permits booting, although this is not officially supported, and no bootable media is provided by HP.
52. Supported by OmniBack-II
53. Requires OmniBack-II software. WORM media not supported.

## Magnetic Tape Drives (Internal and External)

HP PA-RISC Workstations presently support only 8-bit single-ended (nsSCSI) SCSI and selected CS/80 (HP-IB) tape drives.

For information on SCSI notation, see the Table on page 127.

A CS/80 driver is provided for two HP-IB cartridge tape drives, and this matrix reflects what is known about the use of that software with other HP-IB devices.

All devices listed as type "CS/80" employ an HP-IB interface. CS/80 and

SS/80 devices may be used only with the 25560A EISA HP-IB card. These drivers are non-functional with the E2070A/B, E2071A, 82355B and other ISA HP-IB cards.

No AMIGO (HP-IB) command set devices are supported. Devices listed as "GSD78" are HP-IB and employ variants of the HP 7978A command language. None are supported. The 7979A and 7980A/XC may be upgraded to 7979S and 7980S/SX versions (kits with HP product number in the range 88703-707x).

The "Min. Boot ROM" column indicates the minimum revision of PDC code required to boot an install system, recovery system or diagnostic kernel from the device. Booting from HP-IB devices is not possible (no ROM), and this capability is not planned.

As of HP-UX release 10.20 , only CDROM is used for software distribution. DAT/DDS, DC600HC and $1 / 2$-inch 9 -track media options are no longer offered.

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :---: | :--- | :--- | :--- | :--- | :--- |

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| HP A4462A |  |  |  |  |  |

Magnetic Tape Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1503C | 4mm DDS, internal. | nsSCSI | $\Rightarrow$ | Refer to Series 700 product number. | $\Leftarrow$ |
| HP C1504B | 4mm DDS, 2GB+DC, internal. | nsSCSI | $\Rightarrow$ | Refer to Series 700 or 800 product number. | $\Leftarrow$ |
| HP C1511A ${ }^{\circ}$ | 4mm DDS, 1.3 Gbyte, stand-alone | GSD78 | NOP | Unsupported | $10.01-11.0,0 B^{57}$ |
| HP C1512A ${ }^{\circ}$ | 4mm DDS, 1.3 Gbyte, stand-alone | nsSCSI | Any | Supported on all Models | 8.05-10.20, $\mathrm{OB}^{57}, \mathrm{OS}^{59}$ |
| HP C1513C | 4mm DDS, internal | nsSCSI | $\Rightarrow$ | Refer to Series 700 or 800 product number. | $\Leftarrow$ |
| HP C1514C | 4mm DDS, internal | nsSCSI | $\Rightarrow$ | Refer to Series 700 or 800 product number. | $\Leftarrow$ |
| HP C1520A ${ }^{\circ}$ | 4mm DDS, 2.0 Gbyte, stand-alone | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1520B ${ }^{\circ}$ | Series 6400 Model 2000 4mm DDS, 2.0 Gbyte, stand-alone | nsSCSI | Any | All Models | 8.07-11.0, OB $^{57}$, OS $^{59}$ |
| HP C1520E ${ }^{\circ}$ | JetStore 2000e 4mm DDS, 2.0 Gbyte, stand-alone | nsSCSI |  |  |  |
| HP C1520F\% ${ }^{\circ}$ \% $/ \mathrm{H}$ | SureStore 2000 e 2 GB 4mm DDS external | nsSCSI | Unsup. | All Models | $10.01-11.0,0 B^{57}$ |
| HP C15218 ${ }^{\circ}$ | Series 6400 Model 2000DC 4mm DDS, 2.0 Gbyte+DC, stand-alone | nsSCSI | Any | All Models | 8.07-11.0, OB $^{57}$, OS $^{59}$ |
| HP C1521E ${ }^{\circ}$ | JetStore 5000 e 4 mm DDS, 2.0GB+DC stand-alone | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1521F\%/G $/$ / ${ }^{\text {l }}$ | JetStore 5000 e 4 mm DDS, 2.0GB+DC stand-alone | nsSCSI | Unsup. | All Models | $10.01-11.0, O B^{57}$ |
| HP C1522A ${ }^{\circ}$ | 4 mm DDS, 2.0GB+DC stand-alone | mcSCSI | Unsup. | Unsupported | Unsup. |
| HP C1522E ${ }^{\circ}$ | JetStore 2000e Mac, stand-alone | mcSCSI | Unsup. | Unsupported | Unsup. |
| HP C1523A ${ }^{\circ}$ | JetStore $2000 e$, Netware |  |  |  |  |
| HP C1523E ${ }^{\circ}$ | JetStore 2000e PC, stand-alone | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1524A ${ }^{\circ}$ | JetStore 5000 e Netware |  |  |  |  |
| HP C1524E ${ }^{\circ}$ | JetStore 5000 e Netware, stand-alone | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1525A ${ }^{\circ}$ | JetStore 2000iPC, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1525F\%/G\% ${ }^{\circ}$ | SureStore 2000i2GB 4mm DDS internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1526A ${ }^{\circ}$ | JetStore 5000iPC, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1526F\%/G\% ${ }^{\circ}$ | SureStore 5000i 4GB 4mm DDS-DC internal | nsSCSI | Unsup. | All Models | $10.01-11.0, O B^{57}$ |
| HP C1527A ${ }^{\circ}$ | JetStore 5000 e PC, stand-alone | nsSCSI | Unsup. | Unsupported | Unsup. |

Magnetic Tape Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C1528A $/ \mathrm{F}^{\circ} / \mathrm{H}$ | JetStore 6000iPC, internal | nsSCSI | Unsup. | All Models | 10.01-11.0, $\mathrm{OB}^{57}$ |
| HP C1529A $/ \mathrm{F}^{\circ} / \mathrm{H}$ | JetStore 6000e, ~8GB(DC), external | nsSCSI |  | All Models | $10.01-11.0, O^{57}$ |
| HP C15308 ${ }^{\circ}$ | Series 6400 Model 4000DC 4mm DDS, $\sim 8$ GB (DC), stand-alone | nsSCSI | Any | All Models | $9.05^{57}-11.0$, OB $^{57}$, OS $^{59}$ |
| HP C1531A ${ }^{\circ}$ | JetStore 6000i Netware, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1533A ${ }^{58}$ | OEM DAT Drive, DDS2-DC, 8GB | nsSCSI | Unsup. | May be supported under other HP product numbers, | Unsup. |
| HP C1536A |  |  |  |  |  |
| HP C1541A ${ }^{\circ}$ | JetStore 6000 e Netware, external | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1549A | SureStore DLT30e | nsSCSI | Unsup. | ISG: All Models | 9.03-9.07 $\perp 10.01-10.20$ |
| HP C1551A ${ }^{\circ} \mathrm{B}^{\circ}$ | SureStore $5000 e \mathrm{U}$ external 4 GB DDS-DC drive | nsSCSI |  | ISG: All Models | 9.01-11.0 w/ OmniBack-2 |
| HP C1552A ${ }^{\circ}$ | SureStore 6000 eU external 8 GB DDS2-DC drive | nsSCSI |  | ISG: All Models | 9.01-11.0 w/ OmniBack-II |
| HP C1553A | OEM DAT Autoloader DDS2-DC, 48GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1555A $/{ }^{\circ}$ | SureStore DAT24i, internal | nsSCSII | TBD | ISG: All Models | 10.10-10.20 |
| HP C1556A $/$ B | SureStore DAT24e for PC | nsSCSI | Unsup. | All Models | $10.01-11.0, \mathrm{OB}^{57}$ |
| HP C1559A $/$ B | SureStore DAT24e, DAT24x6e | nsSCSI | TBD | ISG: All Models | 9.01 $\perp 10.01-10.20$ |
| HP C1560B ${ }^{\circ}$ | Series 6400 Model 48AL DDS-2 autoloader | nsSCSI |  | ISG: All Models; requires dedicated nsSCSI bus | $9.01{ }^{57}-10.20, \mathrm{OB}^{57}, \mathrm{OS}^{59}$ |
| HP C1561A ${ }^{\circ}$ | SureStore 12000 e 48GB 8GB DDS2DC autoloader | nsSCSI | Unsup. | ISG: All Models | 9.01-11.0 w/ OmniBack-II, OS ${ }^{59}$ |
| HP C1562B ${ }^{\circ}$ | Series 6400 Model 48AL DDS-2 autoloader, w/HP NetWorker | nsSCSI |  | ISG: All Models; requires dedicated nsSCSI bus | 9.01-9.07, 10.x planned |
| HP C1565A $/ \mathrm{B}^{\circ}$ | SureStore 12000 e LABS autoloader, NetWare | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1567A $/ \mathrm{B}^{\circ}$ | SureStore 2000e for NetWare | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1568A ${ }^{\circ} \mathrm{B}^{\circ}$ | SureStore 5000e for NetWare | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1569A ${ }^{\circ} \mathrm{B}^{\circ} / \mathrm{C}^{\circ}$ | SureStore 6000e for NetWare | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1579A | SureStore DLT40e | nsSCSI | Unsup. | ISG: All Models | 9.03-9.07 $\perp 10.01-10.20$ |
| HP C1590A ${ }^{\circ}$ | 4¥C1511A-type DDS drives | GSD78 | NOP | Unsupported | No driver |
| HP C1595A $/ \mathrm{B}^{\circ} / \mathrm{C}$ | SureStore DAT8e for Netware | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1596A ${ }^{\text {/ }}$ \% $/ \mathrm{C}$ | SureStore DAT8i for Netware | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1597A $/ \mathrm{B}^{\circ} / \mathrm{C}$ | SureStore DAT8e for NT | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C1598A $/ \mathrm{B}^{\circ} / \mathrm{C}$ | SureStore DAT8i for NT | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP C2212/13/14 ${ }^{\circ}$ | Series 6000 Enclosure |  |  |  |  |
| Option 003 ${ }^{\circ}$ | (DDS: see C2292A) |  |  |  |  |
| Option 006 ${ }^{\circ}$ | (QIC: see C2296D ${ }^{\text {) }}$ |  |  |  |  |
| HP C2224A ${ }^{\circ}$ | 4mm DDS, 2.0 Gbyte, for C226xA | nsSCSI | Unsup. | Never supported | Never supported |
| HP C2224 ${ }^{\circ} \mathrm{B} / \mathrm{C}^{\circ} / \mathrm{M}^{\circ}$ | 4mm DDS, 2.0 Gbyte, for C226xA/E/ M | nsSCSI | Unsup. | Unsupported | Unsup. |

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :---: | :--- | :--- | :--- | :--- | :--- |

Magnetic Tape Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C4317RZ \#103 | 12-24GB DDS3 DAT drive, racked | fnsSCSI | Any | C-Class, J-Class, K-Class, Models 743, 744, 748 | 10.01-11.0 with OmniBack-II. |
| HP C4318RZ \#104 | 6-ctg. 12-24GB DDS3 DAT autoloader, racked | fnsSCSI | Any | B-Class, C-Class, J-Class, KClass, Models 715/100, $715 /$ 100XC, 725/100,735/99,735/ 125, 755/99, 755/125 | $\begin{aligned} & 10.01-11.0 \\ & \text { with OmniBack-II } \end{aligned}$ |
| HP C4318RZ \#105 | HP DLT7000, Racked | fwdSCSI | No | J-Class, K-Class | $\begin{array}{\|l\|} 10.01-11.0 \\ \text { with OmniBack-II } \end{array}$ |
| HP C4318RZ \#107 | DLT4000 | fwdSCSI | No | Unsupported | Unsup. |
| HP C4320A/B/M/R | Colorado T1000 TR-1 \& QIC-80 tape drive, internal | FDD | Unsup. | Unsupported | No driver |
| HP C4322A | Colorado T4000s TR-4/QIC 3095 internal | nsSCSI | NOP | Unsupported | Unsup. |
| HP C4326A/R | Colorado T1000e TR-1 \& QIC-80 tape drive, external | FDD | NOP | Unsupported | No driver |
| HP C4327A ${ }^{\circ}$ | Colorado T4000, TR-4 | nsSCSI | Unsup. | Unsupported | Unsupported |
| HP C4328C | Colorado Jumbo 350, QIC-80, internal | FDD | NOP | Unsupported | No driver |
| HP C4329C | Colorado T1000 TR-1 \& QIC-80 tape drive, internal | FDD | Unsup. | Unsupported | No driver |
| HP C4330C/D | Colorado Jumbo 1400, QIC-3020, internal | FC-20 | NOP | Unsupported | No driver |
| HP C4331C | Colorado Jumbo 350, QIC-80, internal | FDD | NOP | Unsupported | No driver |
| HP C $4341{ }^{\circ} \mathrm{A} / \mathrm{B}$ | Colorado T3000es TR-3/QIC 3095 internal | FDD | NOP | Unsupported | No driver |
| HP C4354A | Colorado 5GB T4i, internal | EIDE | NOP | Unsupported | No driver |
| HP C4355A | Colorado 5GB T4i, internal | EIDE | NOP | Unsupported | No driver |
| HP C4361A | Colorado 5GB T4i, external | Parallel | NOP | Unsupported | No driver |
| HP C4362A | Colorado 5GB T4i, external | Parallel | NOP | Unsupported | No driver |
| HP C4374A | See C4354A |  |  |  |  |
| HP C4386A/87A | HP Colorado 8GB Internal | EIDE |  | NOP | Unsupported |
| HP C4388A/89A | HP Colorado 8GB External | Parallel |  | NOP | Unsupported |
| HP C5150F | SureStore DLT Library 4115e, 1xDLT4000, stand-alone | fwdSCSI or fwsSCSI | NOP |  |  |
| HP C5151F | SureStore DLT Library 4115r, 1xDLT4000, rack-mount | fwdSCSI or fwsSCSI | NOP |  |  |
| HP C5152F | SureStore DLT Library 4215e, 2xDLT4000, stand-alone | fwdSCSI or fwsSCSI | NOP |  |  |
| HP C5153F | SureStore DLT Library 4215r (DLT4000) | fwdSCSI or fwsSCSI | NOP |  |  |

Magnetic Tape Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C5170F | SureStore DLT4000 Model 4115we 15 -slot DLT tape library, stand-alone. | fwdSCSI, <br> fwsSCSI | NOP |  |  |
| HP C5170J | SureStore DLT7000 Model 7115we 15slot DLT tape library, stand-alone. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C517IF | SureStore DLT4000 Model 4215we 15-slot DLT tape library, stand-alone. | fwdSCSI, <br> fwsSCSI | NOP |  |  |
| HP C517] | SureStore DLT7000 Model 7215we 15-slot DLT tape library, stand-alone. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5172F | SureStore DLT4000 Model 4115wr 15slot DLT tape library, rack-mount. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5172J | SureStore DLT7000 Model 7115wr 15slot DLT tape library, rack-mount. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5173F | SureStore DLT4000 Model 4215wr 15-slot DLT tape library, rack-mount. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5173J | SureStore DLT7000 Model 7215wr 15slot DLT tape library, rack-mount. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5175F | SureStore DLT4000 Model 4228w 28 -slot DLT tape library, stand-alone. | fwdSCSI, <br> fwsSCSI | NOP |  |  |
| HP C5177F | SureStore DLT4000 Model 4448w 24-slot DLT tape library, stand-alone. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5175J | SureStore DLT7000 Model 7228w 28 -slot DLT tape library, stand-alone. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5176J | SureStore DLT7000 Model 7248w 28-slot DLT tape library, stand-alone. | fwdSCSI, fwsSCSI | NOP |  |  |
| HP C5177J | SureStore DLT7000 Model 7448w 48 -slot DLT tape library, stand-alone. | fwdSCSI, <br> fwsSCSI | NOP |  |  |
| HP C5644A ${ }^{\circ}$ | $\begin{aligned} & \text { Colorado T4i, 4-8 GB, QIC-3095/TR- } \\ & 4 \end{aligned}$ | nsSCSI | NOP | Unsupported | Unsupported |
| HP C5644B | $\begin{aligned} & \text { SureStore T4i, 4-8 GB, QIC-3095/TR- } \\ & 4 \end{aligned}$ | nsSCSI | NOP | Unsupported | Unsupported |
| HP C5645A | SureStore T4000, TR-4 | nsSCSI | Unsup. | Unsupported | Unsupported |
| HP C5647A | SureStore DLT40i |  |  |  |  |
| HP C5650A ${ }^{\circ}$ /B | SureStore 24x6e, Netware/NT | nsSCSI | Unsup. | Unsupported | Unsupported |
| HP C5651A $/$ / | SureStore 24x6e, NT | nsSCSI | Unsup. | Unsupported | Unsupported |
| HP C5653A | SureStore DAT24eU, external | nsSCSI |  | ISG: All Models | 10.10-10.20 |
| HP C5658A | SureStore DLT70e |  | Unsup. | Unsupported | Unsupported |
| HP C5677A | SureStore DAT24x6i, internal, 5¼inch full-height | nsSCSI | TBD | ISG: All Models | 9.01 $\perp$ 10.01-10.20 |
| HP C6280F | SureStore DLT4000 Model 418 | nsSCSI | NOP | Unsupported. NetServer product. | Unsup. |
| HP C6360A | 2-4GB DDS1 DAT drive, external | fnsSCSI | Any | All Models | 9.01-9.07 $\perp 10.01-10.20$ |
| HP C6362A | 4-8GB DDS2 DAT drive, external | fnsSCSI | Any | B-Class, C-Class, J-Class, KClass, Models 715, 745, 747, 743, 744, 748, 755 | $\mid 9.05-9.07 \perp 10.01-11.0$ <br> with OmniBack-II. |
| HP C6363A | 4-8GB DDS2 DAT drive, external | fnsSCSI | Any | B-Class, C-Class, J-Class, KClass, Models 715, 745, 747, 743, 744, 748, 755 | $9.05-9.07 \perp 10.01-11.0$ <br> with OmniBack-II |

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Magnetic Tape Drives

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP JT35x | Colorado Trakker350, QIC-80, external | Parallel | NOP | Unsupported | No driver |
| HP PD-60x ${ }^{\circ}$ | Colorado PowerDAT6000 | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP PTE-25x ${ }^{\circ}$ | Colorado PowerTape 2400, QIC1000, external | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP PTE-50x ${ }^{\text {oo }}$ | Colorado PowerTape 2400, QIC1000, external | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP PT-10x ${ }^{\circ 0}$ | Colorado PowerTape 1100, QIC-525, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP PT25x ${ }^{\circ 0}$ | Colorado PowerTape 4000, QIC2GB, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP PT-50x ${ }^{\circ 0}$ | Colorado PowerTape 2400, QIC1000, internal | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP QTM4500S | Quantum DLT4500 autochanger | nsSCSI | Unsup. | K-Class. May not be supported in all regions. | 9.04 w/patch - 11.0. Requires OmniBack-II |
| HP STKS9710 | StorageTek 9710 DLT tape library | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP S2323A | 8mm Exabyte | nsSCSI | Unsup. | Factory Special | Factory Special |
| HP 35401A ${ }^{\circ}$ | 1/4-in. 16-trk 536Mbyte HCD-75 autochanger | CS/80 | NOP | Unsupported | Unsup. |
| HP 35450A ${ }^{61}$ | OEM DAT Drive, DDS, 2GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 35470A ${ }^{62}$ | OEM DAT Drive, DDS, 2GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 35480A ${ }^{63}$ | OEM DAT Drive, DDS-DC, 4GB | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP 7970E ${ }^{\text {oo }}$ | 1/2-in. 9-track, 800/1600 bpi | AMIGO | NOP | Never supported | No driver |
| HP 7971A ${ }^{\circ 0}$ | 1/2-in. 9-track, 1600 bpi | AMIGO | NOP | Never supported | No driver |
| HP 7974A ${ }^{\circ 0}$ | 1/2-in. 9-track, 1600/800 bpi | GSD78 | NOP | Never supported | No driver |
| HP 7978A ${ }^{\circ} / \mathrm{B}$ | 1/2-in. 9-track, 1600/6250 bpi | GSD78 | NOP | Unsupported | No driver |
| HP 7979A ${ }^{\circ}$ | 1/2-in. 9-track, 1600/800 bpi | GSD78 | NOP | Unsupported | No driver |
| HP 7980A ${ }^{\circ}$ | 1/2-in. 9-track, 1600/6250 bpi | GSD78 | NOP | Unsupported | No driver |
| HP Option 800 | ...adds 800 bpi NRZI | GSD78 | NOP | Unsupported | No driver |
| HP 7980XC ${ }^{\circ}$ | 7980A with data compression | GSD78 | NOP | Unsupported | No driver |
| HP 79795 ${ }^{\circ}$ | 1600 cpi PE, LDBL50 | nsSCSI | Unsup. | Unsupported | Unsup. ${ }^{64}$ |
| HP 7980S | 6250 cpi GCR, LDBL50 | nsSCSI | Unsup. | All Models ${ }^{64}$ | 8.07-10.20, OB $^{58}$ |
| HP 7980SX | 7890 S with data compression, LDBL50 | nsSCSI | Unsup. | All Models ${ }^{64}$ | 8.07-10.20, OB $^{58}$ |
| HP $88780^{\circ} \mathrm{x}$ | OEM 9-track drives | Varies | NOP | Unsupported | Unsup. |
| HP 9144A ${ }^{\circ}$ | 1/4-in. 16-trk cartridge, HCD-75, 67 Mbyte | CS/80 | NOP | Supported on all EISA Models | 8.05-10.10 |
| HP 9145A ${ }^{\circ}$ | 1/4-in. 32-trk cartridge, XTD-134, 134 Mbyte | CS/80 | NOP | Supported on all EISA Models | 8.05-10.10 |
| HP-Apollo A-6250 ${ }^{\circ}$ | 1/2-in. 9-track (LMS) 1600/6250 bpi | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP-Apollo A-ADDESTC ${ }^{\circ 0}$ | 1/4-in. 60Mb QIC-24 ctg., external | nsSCSI | Unsup. | Formerly supported: Series 400 upgrades only | Formerly supported: 9.0-9.07 $\perp 10.01-10.20 \nabla$ |
| HP-Apollo A-EX- ${ }^{\circ}$ | 8mm 2.3Gb External | nsSCSI | Unsup. | Unsupported | Unsup. |
| HP-Apollo A-XT- ${ }^{\circ}$ | 8mm 2.3Gb Internal | nsSCSI | Unsup. | Unsupported | Unsup. |

Magnetic Tape Drives

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Magnetic Tape Notes:

54. Excludes Model 710e
55. 9.03 and 9.05 support requires patch.
56. A number of HP DDS drives emit a SCSI Product ID of "C1501A". Refer to the product number by which the drive was ordered, or the product number on the enclosure.
57. Supported by OmniBack-II.
58. A number of HP DDS drives emit a SCSI Product ID of "C1533A". Refer to the product number by which the drive was ordered, or the product number on the enclosure.
59. Supported by OmniStorage, B197xBA, 9.01 and later.
60. 9.03 and 9.05 require a patch.
61. A number of HP DDS drives emit a SCSI Product ID of " 35450 A ". Refer to the product number by which the drive was ordered, or the product number on the enclosure.
62. A number of HP DDS drives emit a SCSI Product ID of "35470A". Refer to the product number by which the drive was ordered, or the product number on the enclosure.
63. A number of HP DDS drives emit a SCSI Product ID of "35480A". Refer to the product number by which the drive was ordered, or the product number on the enclosure.
64. A specific firmware version may be required in the tape drive.

## Graphics Video

## (Built-in and Card-Based)

This section covers built-in, add-in and plug-in video display hardware (other than monitors) for HP PA-RISC Workstations, for use as boot/ITE console and X-Windows System server.

Unsupported video cards are detailed in the Interfaces section of this document.

HP PA-RISC Workstations support either a bit-map display (with SPUconnected keyboard) or a serial terminal as console, and some Models
are available in a "server" configuration that omits the bit-map video interface.

X-terminals with serial ports and serial terminal emulation are supported as console if that port is connected to the SPU (in addition to the LAN connection).
HP PA-RISC Workstations support only built-in video, SGC (Standard Graphics Connect) and GSC (Graphics System Connect) video cards as console. See the Interfaces section for a description of card types.

EISA, ISA, VXI and VME video cards may not be console. Video import/ export cards are listed in the Interfaces section.

No DIO-family (Series 300/400) cards are listed here, as all are incompatible with HP PA-RISC Workstations.

The "Min. Boot ROM" column indicates the minimum revision of ROM code supporting that device as system or diagnostic console.

See the Graphics Devices section for information on support of internal video, including extra "heads", as graphics peripherals.

## Graphics Video Interface Support

| Vendor \& Product <br> Number | Abbreviated Product <br> Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Graphics Video Interface Support

| Vendor \& Product <br> Number | Abbreviated Product <br> Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Graphics Video Interface Support

| Vendor \& Product <br> Number | Abbreviated Product <br> Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Graphics Video Interface Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A4443A | Upgrade HCRX-8Z/24Z to VISU-ALIZE-8/24, Dsub15 | GSC | Any | C-Class, Models J200, J210, J210XC, J282 | $9.07-11.0^{76}$ |
| HP A4450A ${ }^{\circ}$ | HP VISUALIZE-EG, EVC | GSC | Any | B-Class, Models C160L, C180, C200, C240, J2240, J280, J282 | $10.20-11.0^{75}$ |
| HP A4451A ${ }^{\circ}$ | HP Dual VISUALIZE-EG, EVC | GSC | Any | $\begin{aligned} & \hline \text { B-Class, C160L, C180, C200, } \\ & \text { C240, J2240, J280, J282 } \end{aligned}$ | $10.20-11.0{ }^{75}$ |
| HP A4452A ${ }^{\circ}$ | 2MB Add-on EG Memory | Daughter | Any | A4450A, A4451A | See base video card |
| HP A4455A | HP VISUALIZE-48XP, EVC | HSC Large | Any | Model K460 | $10.20-11.0^{76}$ |
| HP A4552A | HP VISUALIZE-FX2, EVC | $\begin{aligned} & \text { PCI-64, Univ, } \\ & 4 \mathrm{x} \end{aligned}$ | Any | Models B132L+, B180L, C200, J2240 and earlier B-Class and C-Class upgraded to one of these. | $10.20-11.0^{76}$ |
| Option 267 | SPU upgrade components |  | Incl. | Models C160, Cl 180 | $10.20-11.0^{76}$ |
| Option 268 | SPU upgrade components |  | Incl. | Models B132L, B160L, C160L | 10.20-11.0 ${ }^{76}$ |
| HP A4553A | HP VISUALIZE-FX4, EVC | $\begin{aligned} & \text { PCI-64, Univ, } \\ & 4 x \end{aligned}$ | Any | Model B180L, C200, J2240 and earlier B-Class and C-Class upgraded to one of these. | $10.20-11.0^{76}$ |
| Option 267 | SPU upgrade components |  | Incl. | Models C160, C180 | 10.20-11.0 ${ }^{76}$ |
| Option 268 | SPU upgrade components |  | Incl. | Models B132L, B160L, C160L | $10.20-11.0{ }^{76}$ |
| HP A4554A | HP VISUALIZE-FX6, EVC | $\begin{aligned} & \hline \text { PCI-64, Univ, } \\ & 4 \mathrm{x} \\ & \text { PCI-32, Univ, 1x } \end{aligned}$ | Any | Model C200, C240, J2240 and earlier C-Class upgraded to C200 or C240 | $10.20-11.0^{76}$ |
| HP A4455A | VISUALIZE-48XP, EVC | HSC | Any | K-Class | $10.20-11.0^{76}$ |
| HP A4556A | Video Export (NTSC, PAL) card for VISUALIZE-FX. RCA-F, S-Video | Daughter (Note ${ }^{72}$ ) | N/A | All Models supporting underlying FX2 or FX4 card (slot space permitting). | $10.20+A C E-11.0^{74}$ |
| HP A4559A | Texture Map Accelerator for VISU-ALIZE-FX4 | Daughter <br> Note ${ }^{73}$ | N/A | All Models supporting A4553A FX4 card. (slot space permitting). | $10.20+$ ACE-11.0 ${ }^{74,76}$ |
| HP A4560A | Texture Map Accelerator for VISU-ALIZE-FX6 | Daughter Note ${ }^{73}$ | N/A | All Models supporting A4554A FX6 card set. (slot space permitting). | $10.20+$ ACE-11.0 ${ }^{74,76}$ |
| HP A4977A | VISUALIZE-EG/PCI | PCI-32, Univ | Any | Models B132L+, B180, C200, C240 and J2240 | $10.20-11.0^{75}$ |
| HP A4979A | VISUALIZE-EG/PMC | PMC |  | Models 744/132L, 744/165L, 748/132L, 748/165L | $10.20-11.0 / 32^{75}$ |
| HP 98705A ${ }^{\circ}$ | s400 P-VRX P2, RGB BNC | G-Bus | Unsup. | Unsupported | Unsup. |
| HP 98705B ${ }^{\circ}$ | s400 P-VRX P3, RGB BNC | G-Bus | Unsup. | Unsupported | Unsup. |
| HP 98705C ${ }^{\text {70 }}$ | s400 P-VRX P1, RGB BNC | G-Bus | Unsup. | Unsupported | Unsup. |
| HP 98705P ${ }^{\text {70 }}$ | s700 P-VRX P3, RGB BNC | SGC | Any | Models 720, 730, 735/99, 735/ 125, 750, 755/99, 755/125 | 8.05-10.20 |
| HP 98720A ${ }^{\circ}$ | SRX Processor | LGB | NA | No interface | NA |
| HP 98730A ${ }^{\circ}$ | TurboSRX Processor | LGB | NA | No interface | NA |
|  | s400 T-VRX Processors |  |  |  |  |
| HP 98735A ${ }^{\circ}$ | T1 Processor, RGB BNC | G-Bus | Unsup. | Unsupported | Unsup. |
| HP 98736A ${ }^{71}$ | T2 Processor, RGB BNC | G-Bus | Any | Models 720, 730, 735/99, 735/ 125, 750, 755/99, 755/125 | 8.05-10.20 |

Graphics Video Interface Support

| Vendor \& Product <br> Number | Abbreviated Product <br> Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| HP 98736B | T3 Processor, RGB BNC | G-Bus | Unsup. | Unsupported | Unsup. |
| HP 98757A |  |  |  |  |  |

## Graphics Video Notes:

65 . Releases prior to 10.0 require PowerShade.
66. This component product number is listed for reference and is not separately orderable.
67. Card set may occupy $2,2 \frac{1}{2}$ or 3 GSC slots.
68. This card occupies a GSC slot, and the slot is unavailable for other GSC, EISA or PCI cards.
69. Requires A4071B STI ROM date code $96 x x x x$ or later.
70. This component product number is listed for reference and is/was not separately orderable.
71. Product not supported if purchased separately (i.e. not as part of a 700 VRX bundle). Some s 400 revisions are incompatible with PA-RISC HP PA-RISC Workstations.
72. Video export card attaches to underlying VISUALIZE-FX card, and consumes I/O bulkhead to right of that card set. It therefore ostructs any EISA, GSC or PCI slot at that bulkhead.
73. Texture Map card attaches to rear (GSC end) of underlying VISUALIZEFX card, but does not consume bulkhead. It does prevent use of the GSC slot adjacent to the FX card, but does
allow use of the adjacent EISA or PCI slot, if the EISA or PCI has a length, from front of bulkhead to rear edge, of 5.25 inches or less. The A4556A Video Export daughtercard also meets this size criterion.
74. At present, there is no 11.0 support for this feature. The device may be present in an 11.0 system, but is not enabled.
75. Graphics on HP-UX 11.0 limited to 2D/X only.
76. Graphics on HP-UX 11.0 limited to 2D/X only, until Dec. 1998.

## Display Monitors

HP PA-RISC Workstation built-in and plug-in cards, as well as external graphics processors support external RGB analog displays, usually sync-ongreen, and often with BNC connectors at the display side.

Host connectors generally may be BNC, VGA-style D-sub 15-pin or EVC (34-pin VESA). The Model v743 uses a 15-pin micro-D-sub connector and requires an A4304A adaptor to attach to a Dsub-15 cable. The Freedom Series processors are an exception, and employ a 13 W 3 Dsub connector.

Unsupported and unlisted monitors which do not support sync-on-green are likely to not function properly on HP PA-RISC Workstations.

More recent variable sync monitors may not function properly on a nonworkstation system (such as a PC), unless the standard C2300-60005 RGB cable is replaced with a D1191B or equiv. RGBhv cable.
"Size" is the advertised size, and not the maximum size of the active screen area, which tends to be about an inch less.

Resolution" is the [maximum] addressable pixel grid supported by the display, in horizontal by vertical notation. Possible HxV values on workstations are VGA ( 640 x 480 ), SVGA (800x600), 1024x768 and $1280 \times 1024$. Any variable rate monitor can, except as noted, sync to a signal at any of these resolutions smaller than its listed maximum.
"Rate" nomenclature is described in the following table.

## Monitor Scan Rate Nomenclature

| Scan Rate | Meaning | Implication |
| :--- | :--- | :--- |
| $n n \mathrm{~Hz}$ | Vertical refresh rate in frames per second. | Fixed sync/rate, fixed resolution. |
| $n n \mathrm{~Hz}$ max. | Maximum vertical refresh rate at the maximum resolution | Variable sync/rate and resolution. |
| $n n \mathrm{KHz}$ max. | Maximum horizontal scan rate $(\mathrm{S})$. Where V is the desired vertical resolu- <br> tion, the max. screen refresh rate $(\mathrm{R})$ is given by: $\mathrm{R}=\mathrm{SV}$ | Variable scan/sync rate and resolution. |
| $n n n \mathrm{MHz}$ max. | Bandwidth (B). Where H and V are the desired horizontal and vertical reso- <br> lutions, the max. screen refresh rate $(\mathrm{R})$ is given by: $\mathrm{R}=\mathrm{B}(\mathrm{HV})$ | Variable scan/sync rate \& resolution. |

Older video hardware and monitors tend to be fixed-resolution and fixed sync. Newer systems and display support multiple resolutions and scan rates. Except as noted, variable rate monitors can, within their resolution range, sync to a signal slower than the maximum rate (as long as the vertical refresh rate is at or above 60 Hz ).
"Connectors" listed in this table are shown for the display rear panel include, unless the display has a captive cable. Terms are:

RGB BNC discrete 75 W coaxial cables.

| Dsub9 | D-Subminiature CGA/ <br> EGA/VGA old-style 11- <br> pin PC connect. |
| :--- | :--- |
| 13W3 | 13-pin D-sub connector <br> with 3 coaxial elements. |
| Dsub15 | PC Industry standard <br> VGA-style 15-pin D-sub- <br> miniature. |
| Microl5 | Microminiature 15-pin <br> Dsub. <br> EVC |
|  | VESA 34-pin Enhanced <br> Video Connector. |
|  |  |

EGAA/VGA old-style 11 LGAVGA old-style 11 13-pin D-sub connector with 3 coaxial elements. VGA-style 15-pin D-subminiature.

Microminiature 15-pin Dsub. Video Connector.

Normally, a Dsub15 host may connect to an RGB BNC monitor with the appropriate break-out cable.

Adaptors are available for connecting:

- EVC(f) hosts to Dsub15(M) monitors, cable product A4167A.
- $\quad \mathrm{EVC}(\mathrm{m})$ monitors to Dsub15(F) hosts, cable product A4168A.
- Micro15(f) hosts to Dsub15(M) monitors.

For "Min. Boot ROM" and "HP-UX Support", refer to the Graphics Devices section under the video hardware to which the display is connected.

## Monitor Support by Product Number

## Display Monitor Support

| Vendor\& Product Number | Product Description (color, size, technology, resolution) | Scan Rate \& Connector | Hardware Qualification and Support |
| :---: | :---: | :---: | :---: |
| HP A1097${ }^{\text {A/B/C/D }}$ | Color, 19-inch, CRT, 1280x1024, for A1659A and TurboVRX | 72Hz, RGB BNC | Model 745[/alll, all CRX and TurboVRX Models |
| HP A1497* $/$ /B | Color, 16-inch, CRT, 1024x768, for EVRX-1024 | 75Hz, RGB BNC | Model 745[/all] |
| HP A2088A ${ }^{\circ}$ | Monochrome, 19-inch, CRT, 1280x1024 | 72 Hz , BNC | All 1280x1024 monochrome models |
| HP A2094A ${ }^{\circ}$ | Color, 19-inch, CRT, 1280×1024 | 72 Hz , RGB BNC | Per video interface |
| HP A2287A/B/C | Color, 17-inch, CRT, 1024x768 | 75 Hz , Dsub15 | All 1024x768 75 Hz interfaces |
| HP A2828 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | Color, 15-inch, CRT, 800×640 | 72Hz max., Dsub15 | Unsup. |
| HP A2882 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | See SIO1OA |  |  |
| HP A $4032{ }^{\circ} \mathrm{A} / \mathrm{B} / \mathrm{C}$ | Color, 17-inch, CRT, 1280x1024 maximum | 75 Hz max., RGB BNC | All Models |
| HP A4033A/B/C | Color, 19-inch, CRT, 1280x1024 maximum | 75 Hz max., RGB BNC | All Models |
| HP A4251A/B/C | Color, 17-inch, CRT, 1024x768 maximum | 75 Hz max. | Model 712 |
| HP A $4330^{\circ} \mathrm{A} / \mathrm{B} / \mathrm{C}$ | Color, 17-inch CRT, 1280×1024 maximum, parchment white | 75 Hz max., RGB BNC \& Dsub15 | All Models |
| HP A $4330^{\circ} \mathrm{D} / \mathrm{E} / \mathrm{F}$ | Color, 17-inch CRT, 1280x1024 maximum, quartz gray | 75 Hz max., RGB BNC \& Dsub15 | All Models |
| HP A $4331{ }^{\circ} \mathrm{A} / \mathrm{B} / \mathrm{C}$ | Color, 19-inch CRT, 1280x1024 maximum, parchment white | 75 Hz max., Dsub15 | All Models w/Dsub1577 |
| HP A4331D/E/F | Color, 19-inch CRT, 1280x1024 maximum, quartz gray | 75 Hz max., Dsubl5 | All Models w/Dsub15 ${ }^{77}$ |
| HP A4332A ${ }^{\circ}$ | Color, 21-inch CRT, $1600 @ 85 \mathrm{~Hz}, 0.22 \mathrm{~mm}$, quartz gray, EVC | 85 Hz max. | All Models adaptable to EVC |
| HP A4490A | Color, 17/16v-inch, CRT, 1280x1024@75Hz, rear panel Dsub15(F), includes 15F to EVC(M) cable | 100 MHz | All Models adaptable to EVC or Dsub15 |
| HP A4575A | Color, 19-inch/18v, CRT, 1600x1200@75Hz, .26mm, rear panel Dsub15(F), includes 15 F to $\mathrm{EVC}(\mathrm{M})$ cable | 95 KHz | All Models adaptable to EVC or Dsub15 |
| HP A4576A | Color, 21-inch/19.8v, CRT,1600x1200@85Hz .25-.27mm, rear panel Dsub15(F), includes 15 F to $\mathrm{EVC}(\mathrm{M})$ cable | KHz | All Models adaptable to EVC or Dsub15 |
| HP C2746A ${ }^{\circ}$ | Color, 19-inch, CRT, 1280x1204 | 72 Hz max. | Unsup. |
| HP C3483A | Color, 14-inch, CRT, SVGA (800x600) | 60 Hz | Unsup. |
| HP C3486A ${ }^{\circ}$ | Color, 15-inch, CRT, EUVGA (1024x768) | 60 Hz | Unsup. |
| HP C3487A ${ }^{\circ}$ | Color, 17-inch, CRT, EUVGA (1280x1024) | 60 Hz | Unsup. |
| HP C5211A/B | Color, 20-inch |  |  |
| HP D1182 ${ }^{\circ}$ //B | Color, 14-inch, CRT, VGA (640x480) | 60Hz Dsub15 | No interface |
| HP D1187A ${ }^{\circ}$ | Color, 19-inch, CRT VGAÍ1280 | ?_KHz, RGB BNC |  |
| HP Dil188A ${ }^{\circ}$ | Color, 15-inch, CRT, VGAÍl280 | ?_KHz, RGB BNC |  |
| HP DI192 ${ }^{\circ}$ //B | Monochrome, 14-inch, CRT, VGA | 60 Hz , Dsub15 | No interface |
| HP D1193A ${ }^{\circ}$ | Color, 17-inch, CRT, 1024 UltraVGA | Max. 1024ni @ 70Hz, Dsub15 | Unsup. |
| HP D1194A ${ }^{\circ}$ | Color, 14-inch, CRT, VGA \& SVGA | 60 Hz, Dsub15 | No interface |
| HP DI195A ${ }^{\circ}$ | Color, 14-inch, CRT, VGA \& SVGA | 72 Hz , Dsub15 | Model 745/50 (50 MHz only) |
| HP D1196A ${ }^{\circ}$ | Color, 15-inch, CRT, 800x640 max | 72 Hz max., Dsub15 | Models v743, 745/[alll, 747/[alll, 748/ [alll |
| HP D1197A ${ }^{\circ}$ | VGA, Color, 640×480 | 70 Hz max. | No interface |
| HP D1198A ${ }^{\circ}$ | Color, 14-inch, CRT, VGA \& SVGA | 72 Hz , Dsub15 | Model 745/[all] |

## Display Monitor Support

| Vendor\& Product Number | Product Description (color, size, technology, resolution) | Scan Rate \& Connector | Hardware Qualification and Support |
| :---: | :---: | :---: | :---: |
| HP D1199A ${ }^{\circ}$ | Ultra VGA 1600, color, 21-inch, CRT, 1600x1280 max., parchment white | 150 MHz , RGBHV | Unsup. |
| HP D2800A ${ }^{\circ}$ | Ultra VGA 1600, color, 21-inch, CRT, 1600x1280 max., quartz gray | 150 MHz , RGBHV | Unsup. |
| HP D2801A $/$ / | HP Entry-Level SVGA, page-white monochrome, 14-inch, CRT, VGA | 60 Hz | No interface |
| HP D2802A ${ }^{\circ}$ | Color, 14-inch, CRT, SVGA (800x600) | 60 Hz | Unsup. |
| HP D2803A ${ }^{\circ}$ | HP Super VGA 1024i color display, 14-inch, CRT | 28 MHz | Unsup. |
| HP D2804A ${ }^{\circ}$ | Super VGA 1024i, color, 14-inch, CRT, SVGA (800x600) | 72 Hz max. | Unsup. |
| HP D2805A ${ }^{\circ} \mathrm{B}$ | HP Ergo 1024, color, 14-inch, CRT, SVGA (800x600) | 72 Hz max. Dsubl5 | Unsup. |
| HP D2806A%/B | HP Ergo Ultra VGA, color, 15-inch, CRT, (1280x1024 max) | 80 MHz | TelePACE, Models 742, 743i, v743, 745/50, 745/100, 748i, 747/[all] |
| HP D2807A/B ${ }^{\circ}$ | HP Ultra VGA 1280, color, 17-inch, CRT, (1280x1024 max) | 80 MHz | Unsup. |
| HP D2808A/S | HP 1024 Low Emissions 15-inch display | 80 MHz | Unsup. |
| HP D2811A ${ }^{\circ}$ | HP 1024 Color 14-inch display, captive Dsub15 | 47 MHz | Unsup. |
| HP D2813A $/ \mathrm{S}^{\circ}$ | HP 1024 color, 14-inch (13.2 VI), CRT, . 28 mm , Dsub15 | 48.4 kHz | Unsup. |
| HP D2814A ${ }^{\circ}$ | Super VGA 1024i, color, 14-inch, CRT, SVGA (800x600) | 72 Hz max. | Unsup. |
| HP D2815A ${ }^{\circ 0}$ | HP 1024 Low Emissions color, 14-inch (13.2 VI), CRT, .28mm, Dsub15 | 48.4 kHz | Unsup. |
| HP D2818A | HP Ultra VGA 1280 color, 17 -inch ( 15.7 VI), CRT, .28mm, Dsub15 | 64 kHz | Unsup. |
| HP D2819A | HP Ultra VGA 1280 XLE color, 17 -inch ( 15.7 VI), CRT, .28mm, Dsub15 (D2818A with TCO92) | 64 kHz | Unsup. |
| HP D2821A | HP 1024 LE , 14-inch (13.2V) CRT, Color, 1024x769(@60Hz), 0.28 mm , Dsub15 | 54 KHz | Unsup. |
| HP D2825A/S | HP Ultra VGA 1024/1024LE color, 15-inch (13.8 VI), CRT, .28mm, Dsub15 | 48.4 KHz | Unsup. |
| HP D2826A | HP 50, 15-inc(13.7V), Color, CRT, 1024(@60Hz), 0.28mm, Dsub15 | 54 KHz | Unsup. |
| HP D2830A | HP Ergo 1024 color, 15 -inch ( 13.9 VI ), CRT, .28 mm dot pitch, Dsub15 | 69 kHz | Unsup. |
| HP D2831A | HP Ultra VGA 1024, color, 15-inch(13.9v), CRT, .28mm, Dsub15 | 69 KHz | Unsup. |
| HP D2835A ${ }^{\circ}$ | HP Ultra VGA 1280 color, 17 (15.7)-inch, CRT, .28mm, Dsub15 | 69 KHz | Unsup. |
| HP D2836A | HP Ultra VGA 1280 TCO color, 17 (15.7)-inch, CRT, .28mm, Dsub15 | 69 KHz | Unsup. |
| HP D2837A | HP 70, 1280 color, 17 (15.7)-inch, CRT, .28mm, Dsub15 | 70 KHz | Unsup. |
| HP D2837S | HP 70, 1280 color, 17 (15.7)-inch, CRT, .28mm, Dsub15 | 70 KHz | Unsup. |
| HP D2838A | HP M700, 17-inch(16V), Color, CRT, 1280@75Hz, 0.26mm, Dusb15, USB-ready | 86 KHz | Unsup. |
| HP D2840A | HP Ergo 1280 color 17-inch (15.7VI), CRT, .25mm dot pitch, Dsub15 | 92 kHz | Unsup. |
| HP D2843A | HP M900, color, 19-inch/18v, CRT, .26mm, Dsub15 | 95 KHz | Unsup. |
| HP D2845A ${ }^{\circ}$ | HP Ergo 1600 color, 21-inch (20 VI), CRT, . 25 mm dot pitch, 5xBNC | 95 kHz | Unsup. |
| HP D3848A | HP Multiscan 15-inch Color Display |  |  |

## Display Monitor Support

| Vendor\& Product Number | Product Description (color, size, technology, resolution) | Scan Rate \& Connector | Hardware Qualification and Support |
| :---: | :---: | :---: | :---: |
| HP D3857A | HP Pavilion color, 15-inch, CRT, VGA-to-1024, audio amp |  | Unsup. |
| HP D3858A | HP Pavilion, 14-inch multimedia display |  |  |
| HP D3861A ${ }^{\circ}$ | HP Pavilion color, 14-inch, CRT, VGA-to-1024 |  | Unsup. |
| HP D5060A | HP 1024 color, 14-inch (14 VI), 1024, LCD display, .277mm, Dsub15 | 61 kHz | Unsup. |
| HP S1010A ${ }^{\circ}$ | Color, 11.8-inch, LCD, 1024x768 only, 75 Hz only | 72 Hz , RGB BNC | All 102475 Hz interfaces |
| HP 98751A ${ }^{\circ 0}$ | Color, 19-inch, CRT, 1024x768 | 60 Hz , RGB BNC | No 60Hz 1024 video |
| HP 98752A ${ }^{\circ}$ | Color, 19-inch, CRT, 1280x1024 | 60 Hz , RGB BNC | Unsupported |
| HP 98753A ${ }^{\circ 0}$ | Color, 19-inch, CRT, 1024x768 | 60 Hz , RGB BNC | No 60Hz 1024 video |
| HP 98754A ${ }^{\circ 0}$ | Color, 19-inch, CRT, 1280x1024 | 60 Hz , RGB BNC | Supported on P-VRX Models |
| HP 98774A ${ }^{\circ} / \mathrm{B}^{\circ}$ | Gray, 19-inch, CRT, 1280x1024 | 70 Hz , BNC | Supported on A1924A i/f, GRX Models, and Models 705, 710 |
| HP 98778A ${ }^{\circ}$ | Gray, 19-inch, CRT, 1024x768 | 60 Hz , BNC | No 60Hz gray video |
| HP 98785A ${ }^{\circ}$ | Color, 16-inch, CRT, 1024x768 | 60 Hz , RGB BNC | No 60Hz 1024 video |
| HP 98786A ${ }^{\circ}$ | Gray, 17-inch, CRT, 1024×768 | 60 Hz , BNC | No 60Hz 1024 video |
| HP 98788A ${ }^{\circ}$ | Gray, 19-inch, CRT, 1280x1024 | 60 Hz , BNC | No 60Hz gray video |
| HP 98789A ${ }^{\circ}$ | Color, 16-inch, CRT, 1280x1024 | $60 \mathrm{~Hz}, \mathrm{RGB}$ BNC | Unsupported |

## Display Monitor Notes:

77. EVC hosts require an A4168A (81206861) adaptor. BNC hosts require an A4169A (8120-6863) adaptor, plus a Dsub15 to BNC cable, such as C230060005.

## Terminals (Serial and X-Windows System)

HP PA-RISC Workstations support both RS-232C (serial) and networked X-Terminals. All SPUs except Model 712 also support a serial terminal as console. The Model 742i requires a serial terminal as console.

The Model 712 may require that a monitor any PS/2 keyboard be present to configure the system for use with a serial terminal as console on an RS-232C port.

Terminal personality types (termtypes) supportable as system console include "hpterm" (HP 2392A emulation with at least HP "term0" capability set), "vt100" (Digital Equipment VT-100 emulation) and "wyse30" (Wyse 30).

The "Min. Boot ROM" column indicates the minimum revision of PDC code supporting the terminal as system or diagnostic console.

Terminal emulators (such as PCs running datacomm applications) are not supportable as system console, due to the complexity of isolating the source of trouble if the console appears to be inoperative.

See the Graphics Devices section for information on support of terminals as graphics peripherals.

Terminal Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP Vectra | Personal Computer with hpterm emulator | Any term0 | Unsup. | Unsupported | Unsup. |
| HP 700 Family Alpha-Numeric Terminals |  |  |  |  |  |
| HP C1001 ${ }^{\circ}$ | Model 700/92 | RS232, term0 | Any | All Models | 8.05-10.20 |
| HP C1002 ${ }^{\circ}$ | Model 700/94 | RS232, term0 | Any | All Models | 8.05-10.20 |
| HP C1003 ${ }^{\circ}$ | Model 700/41 "ASCII" | RS232, Wyse30 | Unsup. | Never supported | Never supported |
| HP C1004 ${ }^{\circ}$ | Model 700/22 ANSI | RS232, VT100 | Unsup. | Never supported | Unsup. |
| HP C1005 ${ }^{\circ}$ | Model 700/71 IBM 3191 |  | NOP |  |  |
| HP C1006 ${ }^{\circ}$ | Model 700/43 "ASCII" | RS232, Wyse30 | Unsup. | Unsupported | Unsup. |
| HP C1007 ${ }^{\circ}$ | Model 700/44 ANSI/PC | RS232, PCterm | Unsup. | All Models | 8.07-11.0 |
| Localized 700/92 Terminals |  |  |  |  |  |
| HP C1010C ${ }^{\circ}$ | Simplified Chinese | RS232, term0 | Unsup. | Never supported | Unsup. |
| HP C1010 ${ }^{\circ}{ }^{\circ}$ | Japanese | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP C1010K ${ }^{\circ}$ | Korean | RS232, term0 | Unsup. | Never supported | Unsup. |
| HP C1010T ${ }^{\circ}$ | Traditional Chinese | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP C1017 ${ }^{\circ}$ | Model 700/32 ANSI | RS232, VT100 | Unsup. | Unsupported | Unsup. |
| HP C1064 | Model 700/96 alpha terminal | RS232, term0 | Any | All Models | 8.05-11.0 |
| HP C1065 | Model 700/98 alpha terminal | RS232, term0 | Any | All Models | 8.05-11.0 |
| HP C1080x/83W | Model 700/60,60ES terminal | RS232, VT320, Wyse60 |  |  |  |
| HP C1084W | Model 700/96ES alpha terminal | RS232, term0 | Any | All Models | 8.05-11.0 |
| HP C1085W | Model 700/98ES alpha terminal | RS232, term0 | Any | All Models | 8.05-11.0 |
| HP C1093x/94W | Model 700/70, 70ES Windowing terminal | RS232 | Any | K-Class | 10.0-10.20 |

Terminal Support

| $\begin{array}{c}\text { Vendor \& Product } \\ \text { Number }\end{array}$ | $\begin{array}{l}\text { Abbreviated Product Description }\end{array}$ | $\begin{array}{l}\text { Hardware } \\ \text { Type } \\ \text { Qualification and } \\ \text { Support }\end{array}$ | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |$]$| Min. Boot |
| :---: |
| ROM |

Terminal Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C3262A | Entria Plus Graphic Server Console, medium res., 15-inch |  | Any | All Models | $10.01-10.20^{80}$ |
| HP C3264A | Entria Plus Graphic Server Console, highres. |  | Any | All Models | $10.01-10.20^{80}$ |
| HP C3264A | Entria X-Station, color, 1280x1024 Base Unit 4MB | 802.3, X11 |  | All Models | 9.05-10.20 |
| HP C5200A | Envizex-II Netstation base unit, 8 MB, 10BaseT, 100VG | 802.3/12, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP C5201A | Envizex-II Netstation base unit, 8 MB, floppy, 10BaseT, 100VG | 802.3/12, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP C5202A | Envizex-II Netstation base unit, 8 MB, ThinLAN+AUI, 1OBaseT, 100VG | 802.3/12, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP C5203A | Envizex-II Netstation base unit, 8 MB, floppy, telephony, 10BaseT, 100VG | 802.3/12, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP C5850A | Entria-II Netstation 1024 base unit, 8 MB, 10BaseT | 802.3, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP C5851A | Entria-II Netstation 1280 base unit, 8 MB, 10BaseT | 802.3, SLIP/PPP, X11 |  | All Models | $10.01-10.20^{80}$ |
| HP J3591A | Secure Web Console, 10BaseT/RJ45-toRS232C/DB25 HP term0 emulation | 802.3 | Any | All Models | 9.03-11.0 |
| HP 2392A ${ }^{\circ}$ | Alphanumeric terminal | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP 2393A ${ }^{\circ}$ | Graphics terminal | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP 2394A ${ }^{\circ}$ | Data entry terminal | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP 2397A ${ }^{\circ}$ | Color terminal | RS232, term0 | Unsup. | Unsupported | Unsup. |
| HP 2691A ${ }^{\circ}$ | Chinese (Taiwan) Terminal | RS232 |  |  |  |
| HP $45850^{\circ}$ | HP 150 (any) (as HP 2623A) | RS232, term0 | Unsup. | Unsupported | Unsup. |

## Terminals Notes:

78. Requires C2310A server software. These terminals not supported on 9.x or 10.x.
79. Requires C2716A or later server software
80. Requires B3651GA or B3653GA software.

## Human Interface Devices

HP PA-RISC Workstations directly support HP-HIL, IBM PS/2 MiniDIN or selected RS-232C serial devices for human interface. Supported terminals may locally support additional classes of devices.

See the Graphics Devices section for information on support of human interface devices as graphics peripherals.

Console keyboards, mice and trackballs are supported only via $\mathrm{PS} / 2$ or HP-HIL connections (or HP-HIL adaptors), and not via serial.

Button boxes, knob/dial boxes, tablets, digitizers, SpaceBalls are supported only via serial or (full) HP-HIL, and not via PS/2. Some SPU Models
have an HIL port with limited functionality (not "full") and cannot support these devices. See table below.

The HP 46084A ${ }^{\circ}$ ID Module is supported only on (full) HP-HIL ports. Some SPU Models have an HIL port with limited functionality (not "full") and cannot support the ID Module. See table below.

## Human Interface Ports by SPU Model

HP PA-RISC Workstations have phased out HP-HIL on new processors, and presently employ PS/2 MiniDIN and RS-232C serial devices.

Most HP-supplied HP-HIL devices were discontinued December 1, 1996. Only 32-bit HP-UX supports HP-HIL. 64-bit HP-UX does not plan to support HP-HIL.
Some systems have a modular SMD10 connector and employ an external A4022-62005 adaptor with PS/2 or HIL ports.

SPUs having HIL only may use a PS/2 keyboard and/or mouse by connecting a Modular Industrial Computers MICHIL HIL-to-PS/2 adaptor. This device uses 2 link addresses, and does allow use of other HIL devices.
Some newer SPUs implement HIL via the A4022-62005 adaptor, others have a restricted HIL port, and a few have no built-in HP-HIL ports at all.

When the A4022-62005 adaptor is used with any PS/2 device, the HIL capability is not disabled. Conversely,
if the HIL port is used on the A402262005 adaptor, $\mathrm{PS} / 2$ ports are still enabled, but use of PS/2 and HIL devices simultaneously is not supported.

For SPUs that have PS/2 only, limited (keyboard \& mouse only) HIL may be obtained via the HP A4220A/B kit, which includes a PS2-to-HIL converter, and an HIL ITF keyboard.
Audio capabilities are covered in a separate table.

Human Interface Ports by Model

| SPU Model | PS/2 MiniDIN ${ }^{81}$ | HP-HIL | RS-232C Serial |
| :--- | :--- | :--- | :--- |
| Any HIL host with MICHIL PS/2 adaptor | Yes | Yes | No change |
| Model 712 with A4220A/B HIL adaptor | Used for adaptor | Keyboard only. <br> (Mouse remains on PS/2.) | No change |
| B132L | Yes | Factory Special only | 2 DTE DB9M |
| B132L Plus | Yes | Factory Special only | 2 DTE DB9M |
| B160L | Yes | Factory Special only | 2 DTE DB9M |
| B180L | Yes | Factory Special only | 2 DTE DB9M |
| C100 | Yes | Full | 1 DTE DB9M |
| C110 | Yes | Full | 1 DTE DB9M |
| C160 | Yes | Full | 1 DTE DB9M |
| C160L | Yes | Full | 1 DTE DB9M |
| C180-XP | Yes | Factory Special only | 1 DTE DB9M |
| C200 | Yes | Factory Special only | 2 DTE DB9M |
| C240 | Yes | None | 1 DTE DB9M, 1 MDP ${ }^{82}$ |
| EPS20 | Yes |  |  |

Human Interface Ports by Model

| SPU Model | PS/2 MiniDIN ${ }^{81}$ | HP-HIL | RS-232C Serial |
| :---: | :---: | :---: | :---: |
| J200 | Yes | Full | 2 DTE DB9M |
| J210 | Yes | Full | 2 DTE DB9M |
| J210XC | Yes | Full | 2 DTE DB9M |
| J2240 | Yes | None |  |
| J280 | Yes | Full | 2 DTE DB9M |
| J282 | Yes | Full | 2 DTE DB9M |
| K260-EG | Yes | None | 1 DTE DB9M, 1 MDP ${ }^{82}$ |
| K460-EG | Yes | None | 1 DTE DB9M, 1 MDP ${ }^{82}$ |
| K460-XP | Yes | None | 1 DTE DB9M, 1 MDP ${ }^{82}$ |
| MPS10 | Per Console ${ }^{83}$ | Per Console ${ }^{83}$ | Per Console ${ }^{83}$ |
| $705^{\circ}$ | None | Full | 2 DTE DB9M |
| $710^{\circ}$ | None | Full | 2 DTE DB9M |
| 710 e | None | Full | 2 DTE DB9M |
| 712/[all] | Yes | None ${ }^{84}$ | 1 DTE DB9M |
| $715{ }^{\circ}$ | None | Full |  |
| $715{ }^{\circ}$ | None | Full |  |
| 715/33 ${ }^{\circ}$ | None | Full |  |
| 715/50 ${ }^{\circ}$ | None | Full |  |
| 715/64 | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE DB9M |
| 715/75 | None | Full | 2 DTE DB9M |
| 715/80 | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE DB9M |
| 715/100 | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE DB9M |
| 715/100XC | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE DB9M |
| $720^{\circ}$ | None | Full | 2 DTE DB9M |
| 725/50 ${ }^{\circ}$ | None | Full | 2 DTE DB9M |
| 725/75 | None | Full | 2 DTE DB9M |
| 725/100 | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE DB9M |
| $730^{\circ}$ | None | Full | 2 DTE DB9M |
| 735/[all] | None | Full | 2 DTE DB9M |
| 735CL ${ }^{\circ}$ | Per Console ${ }^{83}$ | Per Console ${ }^{83}$ | Per Console ${ }^{83}$ |
| 742i | None | Full | 2 DTE DB9M |
| 743i | Yes | None ${ }^{84}$ | 2 DTE Micro 9F |
| V743 | Yes | None ${ }^{84}$ | 2 DTE Micro 9F |
| 744 | Yes | None ${ }^{84}$ | 2 DTE Micro 9F |
| 745i | None | Full | 2 DTE DB9M |
| 747i | None | Full | 2 DTE DB9M |
| 748i | Yes, if HIL not used | Full, if PS/2 not used | 2 DTE Micro 9F |
| $750^{\circ}$ | None | Full | 2 DTE DB9M |
| 755/(all) | None | Full | 2 DTE DB9M |

## Human Interface Port Notes:

81. For Keyboard and Mouse only.
82. MDP: Modem Distribution PanelUsed as remote Access Port with cable J2085A.
83. Human Interface port available only on console. See entry for console SPU selected.
84. Limited HP-HIL support (keyboard only) available via discontinued A4220A/B kit.

## Audio Input/Output Ports

HP PA-RISC Workstation processors (except Model 742i) provide simple tone generator (beep) output. Most offer analog audio signal input and output.
Legend:
$1.5 \mathrm{~V} \quad 1.5 \mathrm{Vdc}$ phantom power for electret mics provided via 3.5 mm ring.

Audio Ports

| SPU Model | Codec | Mic ln | Mic Bias | Phone Out | Speaker Out | Line In | Line Out |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B132L | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| B132L Plus | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| B160 | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| B160L | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| B180L | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C100 | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C110 | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C160 | CS4215(S) | Front | 1.5V | Front | Internal | Rear | Rear |
| C160L | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C180-XP | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C200 | CS4215(S) | Front | 1.5 V | Front | Internal | Rear | Rear |
| C240 | CS4215(S) | Front | 1.5V | Front | Internal | Rear | Rear |
| $\text { EPS20 }{ }^{85}$ |  |  |  |  |  |  |  |
| J200 | CS4215(S) | Rear | 1.5 V | Rear | Internal | Rear | Rear |
| J210 | CS4215(S) | Rear | 1.5 V | Rear | Internal | Rear | Rear |
| J210XC | CS4215(S) | Rear | 1.5 V | Rear | Internal | Rear | Rear |
| J280 | CS4215(S) | Rear | 1.5 V | Rear | Internal | Rear | Rear |
| J282 | CS4215(S) | Rear | 1.5V | Rear | Internal | Rear | Rear |
| K260-EG | CS4215(S) |  |  |  |  |  |  |
| K460-EG | CS4215(S) |  |  |  |  |  |  |
| K460-XP | CS4215(S) |  |  |  |  |  |  |
| MPS10 ${ }^{\text {o85 }}$ | CS4215(S) | Rear | 1.5V | Rear | Rear,Int. | Rear | Rear |
| $705^{\circ}$ | PSB2160(M) | Rear | none | Rear | Internal | none | none |
| $710^{\circ}$ | PSB2160(M) | Rear | none | Rear | Internal | none | none |
| 712 [/all] | CS4215(S) | Rear | 1.5 V | Rear | Internal | Rear | none |
| $7155^{\circ}$ [/alll | CS4215(S) | Rear ${ }^{86}$ | 1.5 V | Rear ${ }^{86}$ | Rear,Int. | Rear ${ }^{86}$ | Rear ${ }^{86}$ |
| $715{ }^{\text {e }}$ [/all] | CS4215(S) | Rear ${ }^{86}$ | 1.5 V | Rear ${ }^{86}$ | Rear,Int. | Rear ${ }^{86}$ | Rear ${ }^{86}$ |

## Audio Ports

| SPU Model | Codec | Mic ln | Mic Bias | Phone Out | Speaker Out | Line In | Line Out |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 715/33 ${ }^{\circ}$ / $/ 50^{\circ}, / 75$ | CS4215(S) | Front | 1.5V | Front | Internal | Rear,Int. | Rear |
| $\begin{aligned} & \text { 715/64, /80, /100, } \\ & 100 \times C \end{aligned}$ | CS4215(S) | Front | 1.5V | Front | Internal | Rear,Int. | Rear |
| $720^{\circ}$ | Beep | none | NA | none | Internal | none | none |
| 725 [/all] | CS4215(S) | Front | 1.5V | Front | Internal | Rear,Int. | Rear |
| $730^{\circ}$ | Beep | none | NA | none | Internal | none | none |
| 735/99 ${ }^{\circ}$, 125 | CS4215(S) | Rear | 1.5V | Rear | Rear,Int. | Rear | Rear |
| $735 \mathrm{CL}^{85}$ | CS4215(S) | Rear | 1.5V | Rear | Rear,Int. | Rear | Rear |
| 742i | none ${ }^{87}$ | NA | NA | NA | NA | NA | NA |
| 743i [/all] | CS4215(S) | Dsub | 1.5V | Dsub | none | Dsub | none |
| V743 [/all] | CS4215(M) | none | NA | Rear | Rear ${ }^{88}$ | Dsub | none |
| 744i [/all] |  |  |  |  |  |  |  |
| 745i [/all] | PSB2160(M) | Rear | none | Rear | Rear | none | none |
| 747i [/all] | PSB2160(M) | Rear | none | Rear | Rear | none | none |
| 748i[/all] | CS4215(S) | Dsub | 1.5 V | Dsub | none | Dsub | none |
| $750^{\circ}$ | Beep | none | NA | none | Rear ${ }^{89}$,Int. | none | none |
| 755 [/all] | CS4215(S) | Rear | 1.5V | Rear | Rear,Int. | Rear | Rear |

## Audio Port Notes:

85. The audio on the cluster nodes is not generally available to users not accessing specific nodes. The console audio depends on the console SPU model.
86. The audio is provided on the A208966530 video/audio combination SGC card. The former (s400) speaker jack is disabled. The internal speaker (transducer) is also on the SGC card.
87. The Model 742 i is intended to have a serial terminal as console. The terminal presumably responds to ControlG beep codes in the data stream.
88. The V740--series "Speaker" jack requires an external load of at least 30 W .
89. The Model 755 has both speaker-out and phone-out. All ports except phone-out are on an SGC-form-fac-
tor card that occupies the "spare" SGC slot. This card also carries the optional FDDI or 802.3 LAN daughter board. The system can be run without this card, if for example, HIPPI is required. Only Beep-audio will be available in that case (and FDDI/ 802.3 would require an EISA card).

## Human Interface Device Support

Localization keyboard Options are shown only for the current keyboard kits.

HP-HIL ports and HP-HIL devices will not be supported on 64-bit HP-UX.

The "Min. Boot ROM" column indicates the minimum revision of PDC code supporting that device as system or diagnostic console keyboard.

## Human Interface Device Support

Pointing, picking, valuating and digitizing devices are ignored for system boot purposes.

For information on SCSI notation, see the Table on page 127.

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1098A ${ }^{\circ}$ | DOMAIN keyboard kit | RS232 | NA | Keyboard not PC DIN std. | No ROM, No driver |
| HP A1099A ${ }^{\circ} \mathrm{B}^{\circ}$ | HP-ITF layout local kit: (46021B \& 46060B) | HP-HIL | Any | All HIL Models | 8.05-11.0/32 |
| HP A1099C | HP-ITF layout local kit: (46021B \& A2838A) | HP-HIL | Any | All HIL Models | 8.05-11.0/32 |
| HP A2205A ${ }^{\circ}$ | PC-101 layout HIL local kit: (C1429A \& A2838A) | HP-HIL | Any | All HIL Models | 8.05-11.0/32 |
| HP A2205B ${ }^{\circ}$ | PC-101 layout HIL local kit: (C1429B \& A2838A) | HP-HIL | Any | All HIL Models | 8.05-11.0/32 |
| HP A2548A ${ }^{\circ}$ | HP-ITF layout keyboard kit for upgrades | HP-HIL | Any | Models 710e, 715s, $715 t$ | 8.05-10.20 |
| HP A2549A ${ }^{\circ}$ | PC-101/HIL (C1429B) keyboard kit. See A2205B for Options. | HP-HIL | Any | Models 710e, 715s, $715 t$ | 8.05-10.20 |
| HP A2838A ${ }^{\circ}$ | 3-button Mouse | HP-HIL | Any | All HP-HIL Models | 9.0-11.0/32 |
| HP A2839A/B | 3-button Mouse, parchment | PS/2 | Any | All PS/2 Models | 9.0-10.20 |
| HP A2839C | 3-button Mouse, quartz | PS/2 | Any | All PS/2 Models | 9.0-11.0 |
| HP A2840A $/ \mathrm{B}$ | PC-101 keyboard | PS/2 | Any | All PS/2 Models | 9.0-11.0 |
| HP A2880A | Japanese JIS keyboard | PS/2 | Any | All PS/2 Models | 9.0-11.0 |
| HP A2881A ${ }^{90}$ | Japanese JIS keyboard | HP-HIL | Any | All HIL Models | 9.0-11.0/32 |
| HP A4022-62005 <br> w/A4022-62003 <br> cable | SMD-10 to HP-HIL and PS/2 (pair) adaptor | SMD-10 | Any | Required on Models 715/64, 715/80, 715/100, 715/100XC, 725/100. No SMD10 on any other Models. | $\begin{aligned} & \text { HIL: 9.0-11.0/32 } \\ & \text { PS/2: 9.03-11.0 } \end{aligned}$ |
| HP A4030A ${ }^{\circ 0}$ | Local Kit, PC-101 layout, PS/2 MiniDIN. See A4030F for Options | PS/2 | Any | All Models with PS/2 | 9.03-11.0 |
| HP A4030B | Local Kit, PC-101 layout, PS/2 MiniDIN, parchment white. See A4030F for Options. | PS/2 | Any | All Models with PS/2 | 9.03-11.0 |
| HP A4030D | Local Kit, PC-101 layout, PS/2 MiniDIN interface, quartz gray | PS/2 | Any | All Models with PS/2 | 9.05-11.0 |
| HP A4030E | Local Kit, PC-101 layout, PS/2 MiniDIN interface, quartz gray | PS/2 | Any | All Models with PS/2 | 9.05-11.0 |

Human Interface Device Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :---: | :--- | :--- | :--- | :--- | :--- |

Human Interface Device Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type <br> Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

Human Interface Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP C3751A ${ }^{\circ}$ | Vectra Mouse, 2-button, MiniDIN | PS/2 | NOP | Unsupported | Unsup. |
| HP C3753,54,56A | Vectra keyboard PC-101, MiniDIN | PS/2 | NOP | Unsupported | Unsup. |
| HP C3758A | Vectra PC-104 Keyboard, quartz gray, Mini-DIN | PS/2 | Unsup. | Unsupported | Unsup. ${ }^{97}$ |
| HP C4725A | PC-104/105 Keyboard, MiniDIN | PS/2 | Unsup. | Unsupported | Unsup. ${ }^{97}$ |
| HP C5418A | Magellan Space Mouse | RS232 | NOP | All Models |  |
| HP E1016A | Barcode reader (92916A) | HP-HIL | NOP | Model 725 | ${ }^{8.0-9.05}{ }^{100} \nabla$ |
| HP J1460A ${ }^{\circ}$ | Console switch | 2xPS/2, <br> Dsub15 |  | Not supported. Difficulties have been reported |  |
| HP J1493A | Console switch, 4-port, EIA | 2xPS/2, <br> Dsub15 |  | Unsupported. |  |
| HP J1497A | Console switch, 8port, EIA | $2 \times \mathrm{PS} / 2,$ <br> Dsub15 |  | Unsupported. |  |
| HP MST63607 | Microsoft Mouse, 2-button | PS/2 |  |  |  |
| HP M1309A ${ }^{\circ 0}$ | 3-button trackball | HP-HIL | NOP | All HIL Models | 8.05-10.20 |
| HP 286-051-050 | Microsoft Natural keyboard, PC-104, U.S.English | PS/2 | Unsup. | Under investigation. | Inves. ${ }^{97}$ |
| HP 35723A ${ }^{\circ}$ | 12-inch touch bezel | HP-HIL | NA | No interface for required monitor | Unsup. |
| HP 45911 ${ }^{\circ} \mathrm{A} / \mathrm{C}$ | 11x11-in. tablet | HP-HIL | NOP | Unsupported | Unsup. |
| HP 46021A ${ }^{\circ 0}$ | Keyboard, ITF layout | HP-HIL | Any | All HIL Models | 8.0-10.20 |
| HP 46021B ${ }^{\circ}$ | Keyboard, ITF layout (Suggest ordering as A1099C. See A1099C for local Options) | HP-HIL | Any | All HIL Models | 8.0-11.0/32 |
| HP 46060A ${ }^{\circ}$ | Mouse, 2 button | HP-HIL | NOP | Unsupported | Unsup. |
| HP 46060B ${ }^{\circ 0}$ | Mouse, 3 button | HP-HIL | NOP | All HIL Models | 8.0-10.20 |
| HP-HIL Extensions |  |  |  |  |  |
| HP 46080A ${ }^{\circ 0}$ | 2.4m, HP-HIL only (no audio) | HP-HIL | NOP | All full HIL Models | 8.05-10.20 |
| HP 46081A ${ }^{\circ}$ | 2.4 m with audio | HP-HIL | NOP | All full HIL Models | 8.05-11.0/32 |
| HP 46082A ${ }^{\circ}$ | 15 m w/RGB ${ }^{98}$ \& audio | HP-HIL | NOP | All full HIL Models | 8.05-11.0/32 |
| HP 46082B ${ }^{\circ}$ | $30 \mathrm{mw} / \mathrm{RGB}^{98}$ \& audio | HP-HIL | NOP | All full HIL Models | 8.05-11.0/32 |
| HP 46083A ${ }^{\circ}$ | 1-Knob dial set | HP-HIL | NOP | All full HIL Models | 8.05-10.10V |
| HP 46084A ${ }^{\circ}$ | ID Module | HP-HIL | NOP | All full HIL Models | 8.05-11.0/32 |
| HP 46085A ${ }^{\circ}$ | 9-Knob dials set | HP-HIL | NOP | All full HIL Models | $8.05-11.0 / 32^{94}$ |
| HP 46086A ${ }^{\circ}$ | 32-button pad | HP-HIL | NOP | All full HIL Models | $8.05-11.0 / 32^{94}$ |
| HP 46087A $/ \mathrm{B}^{\circ 0}$ | Digitizer, A-size | HP-HIL | NOP | Unsupported | Unsup. |
| HP 46087C ${ }^{\circ}$ | Digitizer, A/A4-size, stylus | HP-HIL | NOP | All full HIL Models | $8.05-$-11.0/32 ${ }^{94}$ |
| HP 46088A ${ }^{\circ} \mathrm{B}^{\circ 0}$ | Digitizer, B-size | HP-HIL | NOP | Unsupported | Unsup. |
| HP 46088C ${ }^{\circ}$ | Digitizer, B/A3-size, stylus | HP-HIL | NOP | All full HIL Models | $8.05-11.0 / 32^{94}$ |
| HP 46090C ${ }^{\circ}$ | Digitizer, A/A4-size, 4b-cursor | HP-HIL | NOP | All full HIL Models | $8.05-11.0 / 32^{94}$ |
| HP 46091C ${ }^{\circ}$ | Digitizer, B/A3-size, 4b-cursor | HP-HIL | NOP | All full HIL Models | $8.05-10.20^{94} \nabla$ |
| HP 46094A ${ }^{\circ}$ | Adaptor, HP-HIL(host) to Honeywell quadrature (device) | HP-HIL | NOP | All full HIL Models | $8.05-11.0 / 32^{94}$ |

Human Interface Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP 46095A ${ }^{\circ 0}$ | Mouse, 3-button | Quad. ${ }^{99}$ | NOP | Formerly supported on HIL Models | 8.05-10.20 |
| HP 7060A ${ }^{\circ}$ | SketchPro 11x11-in tablet | RS232 | NOP | Never supported | Unsup. |
| Barcode Readers |  |  |  |  |  |
| HP 92915A ${ }^{\circ}$ | For HP 2390-series terminals and HP150 PCs | MITF-12 | $\Rightarrow$ | Formerly supported on host terminals | $\Leftarrow$ |
| HP 92916A ${ }^{\circ}$ | For HP 9000 workstations and HP 150-II PCs | HP-HIL | Unsup. | Never supported. See E1016A | Unsup. |
| HP 92917A ${ }^{\circ}$ | For HP 700 family serial terminals | MITF-5 | $\Rightarrow$ | Formerly supported on host terminals | $\Leftarrow$ |
| HP 98016A ${ }^{\circ}$ | MITF-5 keyboard adaptor | HP-HIL | Any | Models 705, 710, 720, 730, 750 | 8.05-10.20 |
| HP 98203C ${ }^{\circ}$ | Large Keyboard, Series 200 layout | HP-HIL | No | Does not function correctly on PA-RISC workstations | Unsup. |
| HP-Apollo A-LPFK- ${ }^{\circ}$ | 32-button pad | RS232 | No | Unsupported | Unsup. |
| HP-Apollo K1388 ${ }^{\circ}$ | 8 knob Dial Set | RS232 | Unsup. | Never supported | Unsup. |
| HP-Apollo K1410 ${ }^{\circ}$ | Mouse, 3-button | Quad. ${ }^{99}$ | NOP | Formerly supported on HIL Models | 8.07-10.20V |
| HP-Apollo K1422 ${ }^{\circ}$ | SpaceBall XYZ, 8-button | RS232 | NOP | Supported as HP A4360A | $\Leftarrow$ |
| HP-Apollo K1424 ${ }^{\circ}$ | Summagraphics Bit Pad Two | RS232 | NOP | Never supported | Unsup. |
| HP-Apollo K1432 ${ }^{\circ}$ | Summagraphics B-size tablet | RS232 | NOP | Never supported | Unsup. |
| HP-Apollo K1434 ${ }^{\circ}$ | Trackball, 3-button Marconi RB2 | Quad. ${ }^{99}$ | NOP | Never supported | Unsup. |
| HP-Apollo K1435 ${ }^{\circ}$ | Trackball, 3-button Itac | Quad. ${ }^{99}$ | NOP | Never supported | Unsup. |
| HP-Apollo SPTL$2003^{\circ}$ | SpaceBall XYZ, 8-button | RS232 | NOP | Supported as HP A4360A | $\Leftarrow$ |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Black Box, (412) 746-5500 |  | http://www.blackbox.com/ |  |  |  |
| SW700 Series | ServSwitch kbd/mouse/monitor switches | $\begin{array}{\|l\|l} \hline 2 \times P S / 2, \\ \text { Dsub15 } \end{array}$ |  | Not officially supported by BlackBox on HP workstations |  |
| ITAC Systems, Inc., 972-494-3073 |  | http://www.mousetrak.com/ |  |  |  |
| BHPSER | Trackball, 3-button | RS232 | NOP | Vendor: All Models except 725 | 8.05-10.01 |
| B5XXMP or BMPIND | Trackball, 3-button | PS/2 | NOP | Vendor: All PS/2 Models | 8.05-10.20 |
| BHPSID | Trackball, 3-button | HP-HIL | NOP | Vendor: All HIL Models | 8.05-10.20 |
| Modular Industrial Computers, 615-499-0700 |  | http://www.mic.com/ |  |  |  |
| MICHIL | HP-HIL (host) to PS/2 (keyboard) adaptor. PC-101 keyboard emulates HP C1429A | HP-HIL | Any | All HIL Models | 9.0-10.20 |
| Rose Electronics, (800) 333-9343 |  | http://www.rosel.com/ |  |  |  |
| SVE Series | ServeView PS/2 and Dsub15 keyboard/ mouse/monitor switches | $\begin{aligned} & \hline 2 \times P S / 2, \\ & \text { Dsub15 } \end{aligned}$ |  | Contact Rose. Some models supported by them for use with HP workstations. |  |

## Human Interface Device Notes:

90. Ordered as product 46021B\#AR0, no longer supplied.
91. Connector/power and driver/patch installation issues on K-Class are currently under investigation.
92. Includes SpaceWare drivers. May require device-specific support in the application software.
93. The A4362A dials and A4363A buttons may "daisy-chain" onto the same serial port, using a C2932A cable, separately ordered.
94. Requires device-specific support in the application software.
95. Use on 9.07 (which uses the 10.0 Xserver) requires a patch to install the 10.0 device drivers.
96. Model 712/100XC has correct firmware. 712/60, 712/80, 712/100, 715/64, $715 / 80,715 / 100$ and 725 may require special firmware or upgrade. 9.05 requires Xserver and kernel patch.
97. Alt-Ctrl-Break, using the Ctrl and Alt keys on the same side of the keybard, may not reset an X-Server on some keyboards. Use Ctrl and Alt from opposite sides of the keyboard. Win-
dows and Menu keycodes are passed through, but presently perform no function in HP-UX.
98. Supplied RGB cables are terminated with BNC connectors on both ends. Use with a Dsub15 host connector requires a Dsub15(male)-to-BNC cable (such as a D1191B) and at least three BNC barrel connectors. Use with a captive Dsub15 cable requires
a two Dsub15(male)-to-BNC cables, plus a female Dusb15-to-Dsub15 adaptor (HP product A4169A).
99. Honeywell Quadrature. Requires HP $46094 \mathrm{~A}^{\circ}$ quadrature adaptor.
100. A defect prevents functioning of this device on HP-UX 9.07 and 10.x. When corrected, this matrix will be revised.
101. HP-UX Euro support pending at time of publication.

## Text Printers

This section refers only to text printing capability of the printer. Refer to the Graphics Devices section (next) for information on support of vector/ raster printing.

## Printer Interfacing

Standard HP PA-RISC Workstation HP-UX supports only networked (lpd), simplex (output-only) Centronics parallel and RS-232C serial printers.

Unless the device-side interface supports the lpd TCP/IP printer protocol, HP-UX LAN printer support via the JetDirect MIO and XIO cards and
external adaptors is provided by the JetAdmin Print Server (See Glossary).

The HP PA-RISC Workstation Centronics interface does not support input from ECP/EPP/IEEE-1284 BiTronic printers.
The simple HP-IB driver provided for

C16xx-series plotters has not been tested with printers. No HP-IB CIPER driver exists for PA-RISC Workstations.

SCSI printers are presently supported only on K-Class systems. For information on SCSI notation, see the Table on page 127.

Printer Interface Support

| Interface |  |
| :--- | :--- |
| AppleTalk/LocalTalk | Not supported (no interface or driver) |
| HP-IB (IEEE-488) | Not supported (untested) |
| IR (Infra Red) | Not supported (no interface or driver) |
| Network, 802.3 | All Models, output only. Requires J237x JetAdmin software |
| Network, 802.5 | All Models with 802.5 token ring networking installed. Requires J237x JetAdmin software. |
| Parallel, simple | All Models, output only. |
| Paralle, IEEE-1284 (printers) | All Models, output only. |
| RS-232C Serial | All Models, output only, speeds to 460 Kbps (CTS hardware handshake recommended) |
| SCSI | K-Class only, bi-directional |
| USB (Universal Serial Bus) | No support at present. |

## Page Description Languages

The standard spooler models provide limited conversion of plain-text to HP-PCL. Without SharedPrint, PostScript ${ }^{\circledR}$ printing is only supported for applications that generate their own Ps output.

If plaintext-to-PostScript, PostScript-to-PCL or PCL-to-PostScript is desired, order SharedPrint/UX (B1917B, 9.0x only). Printers supported by SharedPrint are noted by [SP] in the HP-UX column.

## SharedPrint for HP-UX 10.x no

 longer includes a PostScript-to-PCL converter. Such a rasterizer ("ARC Press") is available for HP-UX from ESRI, URL:http://www.esri.com

Printer Page Description Language Support

| PDL | Description | Support |
| :--- | :--- | :--- |
| Esc-P | Epson PDL | Supported in the Asian System Environment (ASE). |
| HP-APCL | HP Asian PCL | Supported only with localized HP-UX versions. |
| HP-GL | HP Graphics Language | Not supported for simple text printing. See Graphics Devices for further support information. |
| HP-PCL | HP Printer Command Lan- <br> guage | PCL-2 thru PCL-5e printers are supported, although not all PCL features are implemented. PCL printers imple- <br> menting versions earlier than PCL-2 may provide unsatisfactory results. No PCL-6 features are implemented, <br> but PCL-6 printers are supported in their PCL-5 emulation mode. Asian PCL supported in ASE. |
| HP-PPA | HP Performance Printing <br> Architecture | Unsupported. No driver. |

Printer Page Description Language Support

| PDL | Description | Support |
| :--- | :--- | :--- |
| HP-RTL | HP Raster Transfer Language | Not supported for simple text printing. See Graphics Devices for further support information. |
| KS/KSSM |  | Unsupported |
| QuickDraw | Apple QuickDraw | Unsupported. QuickDraw printers have not been tested, and there is no native HP-UX support for the QD com- <br> mand language. Their functionality in the Maclntosh Application Environment is unknown. There have never <br> been upgrade kits to convert 'Writer (QuickDraw) printers to 'Jet (PCL) printers. |
| PostScript | Adobe PostScript | Level 1 and Level 2 printers are supported. HP OpenSpool can convert PostScript to PCL. |
| PrintGear | Adobe PrintGear | Unsupported (no software support supplied). |

## Text Printer Support Details

SharedPrint [SP] is a graphical user interface to the 'lp' capability of HPUX.

With HP-UX 10.0 , SharedPrint is no longer a separate product, but is an optional non-cost subsystem of standard HP-UX.

This table includes some HP D- and E-size inkjet plotters, as these are being marketed as "Large Format Printers".

Only the PostScript models are presently supportable as text printers on HP-UX, as there are no HP-UX text drivers for HP-GL or HP-RTL devices.

## Text Printer Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- |

Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C1656A ${ }^{\circ}$ | PaintJet XL300/PS | PCL | All Models | 9.0-10.20 [SP] |
|  | Parallel Interface | Centronics | All Models | 9.0 |
| HP C2059T ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | $8.0-10.20^{105}$ |
| HP J $2340 \mathrm{~A}^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | 8.0-10.20, w/JetAdmin ${ }^{102,105}$ |
| HP C1676A ${ }^{\circ}$ | DeskJet 1200C, 300 dpi color |  | All Models | 9.05-10.20 [SP] |
|  | HP-PCL | PCL | All Models | $9.05=\mathrm{w} / \mathrm{C} 2865 \mathrm{~A}$ |
|  | PostScript | Ps-2 | All Models | 9.05-10.20 |
|  | Parallel i/f | Parallel |  | $9.05=w / J 255 \times A^{\circ}$ |
|  | JetDirecti/f | MIO | All Models | 9.05-10.20, w/JetAdmin ${ }^{105}$ |
| HP C1686A ${ }^{\circ}$ | DeskJet 1200C/PS, 300 dpi color |  | Per Interface | 9.05-10.20 [SP] |
|  | HP-PCL | PCL-5 | All Models | 9.05-10.20 |
|  | PostScript | Ps-2 | All Models | 9.05-10.20 |
|  | Parallel i/f | Parallel | All Models | 9.05-10.20 |
|  | JetDirecti/f | MIO | All Models | 9.05-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2001A ${ }^{\circ}$ | LaserJet 4 | PCL-5 | All Models | 9.05-10.20 [SP] |
| HP C2080A | PostScript SIMMs | Ps-2 | All Models | 9.05-10.20 |
|  | Serial Interface | RS232 | All Models | 9.05 |
|  | Parallel interface | Parallel | All Models. Output only. | 9.05 |
| w/ J2340A ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | $9.05,10.20, \mathrm{w} / \mathrm{JetAdmin}{ }^{105}$ |
| HP C2003A ${ }^{\circ}$ | LaserJet 4L | PCL-5 |  | 10.01-10.20 [SP] |
|  | Parallel interface | Parallel | All Models. Output only. |  |
| w/ $\mathrm{J} 238 \times \mathrm{B}^{\circ}, \mathrm{J} 239 \times \mathrm{A}$ | JetDirect external adaptor | 802.3 | All Models | 10.01-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2005A ${ }^{\circ}$ | LaserJet 4P | PCL-5 | All Models | 9.01-10.20 |
|  | Parallel interface |  | All Models | 9.01-10.20 |
| HP C2049A ${ }^{\circ}$ | PostScript Level 2 SIMM for LaserJet 4P | SIMM | All Models | 9.01-10.20 |
| HP C2007A ${ }^{\circ}$ | LaserJet IIP Plus, 4ppm | PCL-4 | All Models | 8.05-10.20 [SP] |
|  | Parallel interface | Parallel | All Models | 8.05-10.20 |
|  | Serial interface | RS232 | All Models | 8.05-10.20 |
| HP C2010A ${ }^{\circ}$ | LaserJel-4si, 17 ppm |  | All Models | 8.05-10.20 [SP] |
|  | HP Printer Command Language | PCL-5 | All Models | 8.05-10.20 |
| w/C2013A | Adobe PostScript Level 2 | Ps2 | All Models | 8.05-10.20 |
|  | Parallel interface | Parallel | All Models | 8.05-10.20 |
| w/J255xA ${ }^{\circ}$ | JetDirect interface | MIO | All Models | 8.05-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2011A ${ }^{\circ}$ | LaserJel-4siMX, 17 ppm |  | All Models | 8.05-10.20 [SP] |
|  | HP Printer Command Language | PCL-5 | All Models | 8.05-10.20 |
|  | Adobe PostScript Level 2 | Ps2 | All Models | 8.05-10.20 |
|  | Parallel interface | Parallel | All Models | 8.05-10.20 |
| w/J255xA ${ }^{\circ}$ | JetDirect interface | MIO | All Models | 8.05-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2015A ${ }^{\circ}$ | LaserJet 4ML | PCL-5 |  | 10.01-10.20 [SP] |
|  | PostScript level 2 | Ps2 |  |  |
|  | Parallel interface | Parallel | All Models. Output only. |  |

## Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2021A ${ }^{\circ}$ | LaserJet 4M | PCL-5 | All Models | 9.01-10.20 [SP] |
|  | PostScript pers. | Ps2 | All Models | 9.01-10.20 |
|  | Parallel i/f | Parallel | All Models | 9.01-10.20 |
| HP C2037A ${ }^{\circ}$ | LaserJet 4 Plus | PCL-5 | All Models | 9.01-10.20 [SP] |
| w/C2080A | PostScript SIMMs | Ps2 | All Models | 9.01-10.20 |
|  | Serial Interface | RS232 | All Models | 9.01-10.20 |
|  | Parallel interface | Parallel | All Models. Output only. | 9.01-10.20 |
| w/ $/ 255 \times A^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | 9.01-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2039A ${ }^{\circ}$ | LaserJet 4M Plus | PCL-5 | All Models | 9.01-10.20 [SP] |
|  | PostScript level 2 | Ps2 | All Models | 9.01-10.20 |
|  | Serial Interface | RS232 | All Models | 9.01-10.20 |
|  | Parallel interface | Parallel | All Models. Output only. | 9.01-10.20 |
| w/J255xA ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | 9.01-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2040A ${ }^{\circ}$ | LaserJet 4MP | PCL-5 | All Models | 9.01-10.20 [SP] |
|  | PostScript level 2 | Ps2 | All Models | 9.01-10.20 |
|  | Parallel interface | Parallel | All Models. Output only. | 9.01-10.20 |
| w/J238xB ${ }^{\circ}$, $2339 \times A$ | JetDirect external adaptor | 802.3 | All Models | 10.01-10.20, w/JetAdmin ${ }^{105}$ |
| HP C2049A ${ }^{\circ}$ | PostScript Level 2 SIMM for LaserJet 4P | SIMM | See |  |
| HP C20597 ${ }^{\circ}$ | JetDirect 10base2/AUI TCP/IP interface | MIO | Per peripheral | 8.05-10.20 ${ }^{\text {, w/JetAdmin }}{ }^{102}$ |
| HP C2071S ${ }^{\circ}$ | JetDirect 10baseT TCP/IP interface | XIO | Per peripheral | 8.05-10.20, w/JetAdmin |
| HP C2071T ${ }^{\circ}$ | JetDirect 10base2 TCP/IP interface | XIO | Per peripheral | 8.05-10.20, w/JetAdmin |
| HP C2088A ${ }^{\circ}$ | PCL-5 cartridge for LaserJet IIP | Font slot | All Models | $8.05-10.20 \nabla$ [SP] |
| HP C2089A ${ }^{\circ}$ | PostScript Plus (level 2) cartridge for LaserJetIII, IIID and IIIP | Font slot | All Models | 8.05-10.20 ${ }^{\text {[SP] }}$ |
| HP C2106A ${ }^{\circ}$ | DeskJet 500, 300 dpi, A-size | PCL-3 | All Models | 8.05-10.20 |
| HP C2113A ${ }^{\circ}$ | DeskWriter C, (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2114A ${ }^{\circ}$ | DeskJet500C, 300 dpi , color | PCL-3 | All Models | 8.07-10.20 [SP] |
|  | Parallel interface | Parallel | All Models | 8.07-10.20 |
|  | Serial interface | RS232 | All Models | 8.07-10.20 |
| HP C2121A ${ }^{\circ}$ | DeskJet550C, 300 dpi , color | PCL-3 | All Models | 8.07-10.20 [SP] |
|  | Parallel interface | Parallel | All Models | 8.07-10.20 |
|  | Serial interface | RS232 | All Models | 8.07-10.20 |
| HP C2124A ${ }^{\circ}$ | DeskWriter 550C, (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2127A ${ }^{\circ}$ | DeskJet 510 | PCL |  |  |
| HP C2128A ${ }^{\circ}$ | DeskWriter 510 (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2145A | DeskJet 850C | PCL, Par. | Unsupported | $\text { Unsup. }{ }^{103}$ |
| HP C2164A | DeskJet 660C | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2165A | DeskWriter 660C (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2168A ${ }^{\circ}$ | DeskJet560C | PCL, Par. | All Models | 9.03-10.20 [SP] |
| HP C2169A ${ }^{\circ}$ | DeskWriter 560C, (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2170A ${ }^{\circ}$ | DeskJet 520,300 dpi, black | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2171A ${ }^{\circ}$ | DeskWriter520 (QuickDraw) | AppleTalk | No interface | No driver |

## Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2184A | DeskJet 600 | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2185A | DeskWriter 600 (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2354A ${ }^{\circ}$ | Series 2300 Model 840 lpm dot-matrix impact | PCL | All Models | 9.0-10.10 |
| Option IAX | Parallel i/f | Parallel | All Models | 9.0-10.10 |
| Option 1AX | Serial i/f | RS232 | All Models | 9.0-10.10 |
| Option UGN | JetDirect EX TCP/IP adaptor | 802.3 | All Models | 9.0-10.10, w/JetAdmin ${ }^{105}$ |
| HP C2356A ${ }^{\circ}$ | Series 2300 Model 1100 lpm dot-matrix impact | PCL | All Models | 9.0-10.10 |
| Option 1AX | Parallel i/f | Parallel | All Models | 9.0-10.10 |
| Option IAX | Serial i/f | RS232 | All Models | 9.0-10.10 |
| Option UGN | JetDirect EX TCP/IP adaptor | 802.3 | All Models | 9.0-10.10, w/JetAdmin ${ }^{105}$ |
| HP C2603A ${ }^{\circ}$ | DeskJet 500J (Japanese) | EscP | Unsupported | Unsup. |
| HP C2605A ${ }^{\circ}$ | DeskJet500K (Korean) | PCL, KS/KSSM | Unsupported | Unsup. |
| HP C2608A ${ }^{\circ}$ | DeskJet 505J (Japanese) | EscP | Unsupported | Unsup. |
| w/C3054A ${ }^{\circ}$ | PCL cartridge | PCL-3 | Unsupported | Unsup. |
| HP C2613A ${ }^{\circ}$ | DeskJet 300J (Japanese) | EscP | Unsupported | Unsup. |
| HP C2614A ${ }^{\circ}$ | DeskJet Portable | PCL, Par. | Unsupported | Unsup. |
| HP C2617A ${ }^{\circ}$ | DeskWriter310 (QuickDraw) | AppleTalk | No interface | No driver |
| HP C2618A ${ }^{\circ}$ | DeskJet505K (Korean) | PCL, KS/KSSM |  |  |
| HP C2620A ${ }^{\circ}$ | DeskJet500Q | $\begin{array}{\|l\|} \hline \text { PCL, APL, } \\ \text { GB2312 } \\ \hline \end{array}$ |  |  |
| HP C2621A ${ }^{\circ}$ | DeskJet 310 | PCL | Unsupported | Unsup. |
| HP C2633 $/ 36^{\circ} \mathrm{A}$ | DeskWriter320 | AppleTalk | No interface | No driver |
| HP C2634 ${ }^{\circ} / 37 \mathrm{~A}^{\circ}$ | DeskJet 320,600x300 dpi portable inkjet | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2642A ${ }^{\circ}$ | DeskJet 400 Printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |
| HP C2643A | DeskJet 660K | KS/KSSM |  |  |
| HP C2644A | DeskJet 600K | KS/KSSM |  |  |
| HP C2655A | DeskJet 340, 600x300 dpi portable inkjet | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2666A ${ }^{\circ}$ | DeskJet 200 | PCL, Par. | Unsupported | Unsup. |
| $\begin{aligned} & \hline \text { HP C2670A } \\ & \text { HP C2673A } \end{aligned}$ | DeskJet 1000Cse DeskJet1000Cxi | PPA | No function | No PPA drivers |
| HP C2675A | DeskJet 1100C | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2678A <br> HP C2679A <br> HP C2680A <br> HP C2681A | DeskJet 1120C <br> DeskJet 1120Cse <br> DeskJet 1120Cxi <br> HP-NEC DeskJet 1120 C | PCL, Par. | Unsupported | Unsup. ${ }^{103}$ |
| HP C2753/ ${ }^{\circ} 4^{\circ} \mathrm{A}^{\circ 0} / \mathrm{B}$ | Model F100 Page Printer | PCL, nsSCSI | K-Class |  |
| HP C2755/ ${ }^{\circ} 56^{\circ} \mathrm{A} / \mathrm{B}$ | Model F135XP Page Printer | PCL, nsSCSI | K-Class |  |
| HP C2772 ${ }^{\circ} / 73^{\circ} \mathrm{A}$ | Model F100XP Page Printer | PCL, nsSCSI | K-Class |  |
| HP C2776/ ${ }^{\circ} 7^{\circ} \mathrm{A}$ | Model F135 Page Printer | PCL, nsSCSI | K-Class |  |
| HP C2865A ${ }^{\circ}$ | PostScript Level 2 for DJ1200C | SIMM | See C1676A |  |

## Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2890A | OfficeJet | PCL, Par. | Unsupported | Unsup. |
| HP C2891A | OfficeJet LX | PCL, Par. | Unsupported | Unsup. |
| HP C3081A | LaserJet 6L/Scanner bundle | IEEE-1284 | Unsupported | No driver for scanner |
| HP C3081A | LaserJet5se | PCL-6 | All Models, PCL-5 mode | 9.05-9.07 $\perp 10.01-10.20$ |
| w/C3918A | PostScript Level 2 | SIMM | All Models |  |
|  | Parallel port | Parallel | All Models |  |
| w/J25xx | JetDirect interface | MIO | All Models | $9.05-9.07 \perp 10.01-10.20^{105}$ |
| HP C3082A | LaserJet5se |  | See C3081A in this section. |  |
| HP C3091A | LaserJet 6P/EX, printer \& JetDirect EX bundle | 802.3 | All Models | 10.20 |
| HP C3094A | LaserJet 4000se, 17ppm, 1200dpi, 500-sheet |  | Per Interface and PDL |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | $9.05-10.20$, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
| HP J311xA | JetDirect interface card | EIO | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3100A ${ }^{\circ}$ | Color LaserJet A/B-size | PCL-5 | All Models | $9.05-10.20^{104}$ |
| w/C3112A | PostScript Level 2 | SIMM | All Models | $9.05-10.20^{104}$ |
|  | Parallel port | Parallel | All Models | $9.05-10.210^{104}$ |
| w/J255xA ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | $9.05-10.20^{104,105}$ |
| HP C3124A | LaserJet 5siHM |  | See C3166A in this section. |  |
| HP C3134A ${ }^{\circ}$ | LaserJet 4PJ | 2-byte PCL |  |  |
| HP C3141A ${ }^{\circ}$ | LaserJet 4V A/B-size | PCL-5 | All Models | 10.01-10.20 |
| w/C3159A | PostScript Level 2 | SIMM | All Models | 10.01-10.20 |
|  | Parallel port | Parallel | All Models | 10.01-10.20 |
| w/ $/ 255 \times A^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | $10.01-10.20^{105}$ |
| HP C3142A ${ }^{\circ}$ | LaserJet 4MV A/B-size | PCL-5 | All Models | 10.01-10.20 |
|  | PostScript Level 2 | Ps2 | All Models | 10.01-10.20 |
|  | Parallel port | Parallel | All Models | 10.01-10.20 |
|  | JetDirect TCP/IP interface | 802.3 | All Models | 10.01-10.20 ${ }^{105}$ |
| HP C3150A ${ }^{\circ}$ | LaserJet 5P, 600 dpi, 6 ppm | PCL-5e | Per Interface |  |
| w/C3152A | PostScript Level 2 | SIMM | Per Interface |  |
|  | Parallel | Parallel |  |  |
|  | InfraRed port | IrDA | No interface | Unsup. |
| w/J238x ${ }^{\circ}, \mathrm{J} 239 \mathrm{xA}$ | JetDirect external adaptor | 802.3 | All Models | 9.05-10.10, w/JetAdmin ${ }^{105}$ |
| HP C3155A ${ }^{\circ}$ | LaserJet 5MP, $600 \mathrm{dpi}, 6 \mathrm{ppm}$ | PCL-5e | Per Interface |  |
|  | PostScript Level 2 |  |  |  |
|  | Parallel | Parallel |  |  |
|  | InfraRed port | IrDA | No interface | Unsup. |
| $w / J 238 \times B^{\circ}, \mathrm{J} 239 \times \mathrm{A}$ | JetDirect external adaptor | 802.3 | All Models | 9.05-10.10, w/JetAdmin ${ }^{105}$ |

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| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3166A | LaserJet 5si, 600 dpi , A/B, 24ppm | PCL | Per interface | $9.05-10.10^{105}$ |
| w/C3169A | PostScript Level 2 | SIMM | All Models | $9.05-10.10^{105}$ |
|  | IEEE-1284 interface | parallel |  |  |
| w/J255xA ${ }^{\circ}$ | JetDirect network interface | MIO | All Models | $9.05-10.10, \mathrm{w} / \mathrm{JetAdmin}{ }^{105}$ |
| HP C3167A | LaserJet 5siMX, 600 dpi , A/B, 24ppm | PCL | Per interface | $9.05-10.10^{105}$ |
|  | PostScript Level 2 | SIMM | All Models | $9.05-10.10^{105}$ |
|  | IEEE-1284 interface | parallel |  |  |
|  | JetDirect network interface | std. | All Models | 9.05-10.10, w/JetAdmin ${ }^{105}$ |
| $\begin{aligned} & \text { HP C3195A } \\ & \text { HP C3196A } \end{aligned}$ | DesignJet 750C, 24-inch DesignJet 750C, 36-inch |  |  |  |
|  | HP-RTL personality | HP-RTL | All Models | No RTL text driver |
|  | Serial interface | RS232 | All Models |  |
|  | Parallel i/f | Parallel | All Models |  |
| w/J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | No RTL text driver |
| HP C3198A $/$ /B | DesignJet 755CM inkjet printer, 300 dpi, A0/ E-size | PCL | All Models | 9.05-10.10 |
|  | PostScript level 2 | Ps2 | All Models | 9.05-10.10 |
|  | Parallel | Parallel | All Models | $9.05-10.10^{105}$ |
|  | Network i/f | 802.3 | All Models | $9.05-10.10, \mathrm{w} / \mathrm{JetAdmin}{ }^{105}$ |
| HP C3201A $/$ B | LP 475 dot-matrix impact |  |  |  |
| HP C3202A $/$ / | LP 475Q quietized |  |  |  |
| HP C3203A ${ }^{\circ}$ | LP 800 |  |  |  |
| HP C3204A ${ }^{\circ}$ \% | LP 800Q quietized |  |  |  |
| HP C3205A $/$ B | LP 1200Q quietized |  |  |  |
|  | HP command lang. | PCL-2 | All Models | 9.03-10.20 |
|  | Parallel interface | Parallel | All Models | 9.03-10.20 |
|  | Serial interface | RS232 | All Models | 9.03-10.20 |
| HP J2593/94x | JetDirectEX+3 | 802.3 | All Models | $9.03-10.20^{105}$ |
| HP C3540A ${ }^{\circ}$ | DeskJet 1600C, 300 dpi color |  | All Models | 10.01-10.20 |
|  | HP-PCL | PCL-5c | All Models | 10.01-10.20 |
| w/C2865A ${ }^{\circ}$ | PostScript | Ps-2 | All Models | 10.01-10.20 |
|  | Parallel i/f | Parallel | All Models | 10.01-10.20 |
| w/J255xA ${ }^{\circ}$ | JetDirect i/f | MIO | All Models | 10.01-10.20 |
| HP C3540 ${ }^{\circ} / \mathrm{N}$ | DeskJet 1600CN, 300 dpi color |  |  | 10.01-10.20 |
|  | HP-PCL | PCL-5c | All Models | 10.01-10.20 |
|  | PostScript | Ps-2 | All Models | 10.01-10.20 |
|  | Parallel i/f | Parallel | All Models | 10.01-10.20 |
|  | JetDirect i/f | MIO | All Models | 10.01-10.20 |

## Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3541A ${ }^{\circ}$ | DeskJet 1600CM, 300 dpi color |  | Per Interface | 9.05-9.07 $\perp 10.01-10.20$ |
|  | HP-PCL | PCL-5c | All Models | $9.05-9.07 \perp 10.01-10.20$ |
| w/C2865A ${ }^{\circ}$ | PostScript | Ps-2 | All Models | $9.05-9.07 \perp 10.01-10.20$ |
|  | Parallel i/f | Parallel | All Models | $9.05-9.07 \perp 10.01-10.20$ |
|  | JetDirect i/f | MIO | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
| $\begin{array}{\|l} \hline \text { HP C3817A, } \\ \text { HP C3819A } \end{array}$ | CopyJet and CopyJet M | IEEE-1284 | Supported as DeskJet 1200C or 1200C/PS. | 9.05-10.10, w/ JetAdmin ${ }^{105}$ |
| HP C3916A | LaserJet 5 | PCL-6 | All Models, PCL-5 mode | 9.05-9.07 $\perp 10.01-10.20$ |
| w/C3918A | PostScript Level 2 | SIMM | All Models |  |
|  | Parallel port | Parallel | All Models |  |
| w/J25xx | JetDirect interface | MIO | All Models | $9.05-9.07 \perp 10.01-10.20^{105}$ |
| HP C3917A | LaserJet5M | PCL-6 | All Models, PCL-5 mode | 9.05-9.07 $\perp 10.01-10.20$ |
|  | PostScript Level 2 | SIMM | All Models |  |
|  | Parallel port | Parallel | All Models |  |
| w/J25xx | JetDirect interface | MIO | All Models | $9.05-9.07 \perp 10.01-10.20^{105}$ |
| HP C3941A ${ }^{\circ}$ | LaserJet5L | PCL-5 |  |  |
|  | Parallel interface | Parallel | Output only. Input non-functional |  |
| HP C3941B/C | LaserJet 5L-Xtra | PCL-5 | All Models |  |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3948A | LaserJet 3100, printer, fax, copier, scanner | IEEE-1284 | Unsupported | No drivers |
| HP C3952A | LaserJet 5N | PCL-6 | All Models, PCL-5 mode | 9.05-9.07 $\perp 10.01-10.20$ |
| w/C3918A | PostScriptLevel 2 | SIMM | All Models |  |
|  | Parallel port | Parallel | All Models |  |
|  | JetDirect interface | MIO | All Models | $9.05-9.07 \perp 10.01-10.20^{105}$ |
| HP C3961A | Color LaserJet 5 |  |  |  |
| w/C3963A | PostScriptLevel 2 | SIMM | All Models |  |
|  | Parallel port | Parallel | All Models |  |
|  | JetDirect interface | MIO | All Models | $9.05-9.07 \perp 10.01-10.20^{105}$ |
| HP C3962A | Color LaserJet 5M |  |  |  |
|  | PostScript Level 2 | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
|  | JetDirect interface | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3980A | LaserJet 6P | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |

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| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3982A | LaserJet 6MP | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3998A | LaserJet 6L/Scanner bundle | IEEE-1284 | Unsupported | No driver for scanner |
| HP C3990A | LaserJet 6L | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3994A | LaserJet 6Lse | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C3996A | LaserJet 6Lxi | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C4000\% $/ 01 A^{\circ}$ | HP 5000 Model C30, 300 dpi, 30ppm | Any | Unsupported | Unsup. |
| HP C4002 ${ }^{\circ} 03 \mathrm{~A}^{\circ}$ | HP 5000 Model C30D, 300 dpi, 30ppm | Any | Unsupported | Unsup. |
| HP C4076A HP C4077A HP C4176A | LaserJet 5si Mopier, 600 dpi, 24ppm, A/B, PostScript, 802.3 | PCL | Per interface | $9.05-10.20^{105}$ |
|  | PostScript Level 2 | SIMM | All Models | $9.05-10.20^{105}$ |
|  | IEEE-1284 interface | parallel | Unsupported |  |
|  | JetDirect network interface | std. | All Models | 9.05-10.20 w/JetAdmin |
| HP C4085A HP C4086A HP C4086A | LaserJet 8000, 8000N, 8000DN, 1200 dpi, 24ppm |  |  |  |
|  | Parallel Interface | IEEE-1284 | Unsupported | Unsup. |
|  | Network Interface | 802.3 | All Models | 9.05-11.0, w/ JetAdmin ${ }^{105}$ |
|  | HP Printer Command Language | PCL-5, -6 |  |  |
|  | PostScript emulation | Level 2 | All Models | 9.05-11.0, w/ JetAdmin ${ }^{105}$ |
| HP C4110A | LaserJet 5000 |  | Per Interface and PDL |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | $9.05-10.20$, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
| HP J311xA | JetDirect interface card | EIO | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C4111A | LaserJet 5000N |  | Per Interface and PDL |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | $9.05-10.20$, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
|  | JetDirect interface card | EIO | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |

Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C4112A | LaserJet 5000GN |  | Per Interface and PDL |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
|  | JetDirect interface card | EIO | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C4118A HP C4119A | LaserJet 4000, 17ppm, 1200dpi, 500-sheet LaserJet 4000T, 2x250-sheet |  | Per Interface and PDL |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
| HP J311xA | JetDirect interface card | EIO | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| $\begin{aligned} & \text { HP C4120A } \\ & \text { HP C4121A } \end{aligned}$ | LaserJet 4000N, EIO LAN, 500-sheet LaserJet 4000TN, 2x250-sheet |  | Supported on all models via JetDirect i/f |  |
|  | HP Printer Command Language | PCL-6 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | PostScript Level 2 emulation | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | IEEE-1284 interface | Parallel | Unsupported. | Unsup. |
|  | RS-232C serial interface | Serial | Unsupported. | Unsup. |
| HP C4175A, C4177A | LaserJet 3100, printer, fax, copier, scanner | IEEE-1284 | Unsupported | No drivers |
| HP C4212A | LaserJet 6Pse | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C4213A | LaserJet 6Pxi |  |  |  |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{105}$ |
| HP C4228A | HP Mopier 240 (LaserJet 5si bundle) |  | See C3166A in this section. |  |
| HP C4530A-G | HP 2000Cxi, color inkjet | PCL-3, <br> IEEE-1284 | Unsupported | Unsup. |
| HP C4531A | DeskJet 820Cxi | PPA, IEEE-1284 | Unsupported | No driver ${ }^{106}$ |
| HP C4547A ${ }^{\circ}$ | DeskJet 600C | $\begin{aligned} & \text { PCL-3, IEEE- } \\ & 1284 \end{aligned}$ | Unsupported | Unsup. ${ }^{103}$ |
| HP C4548A ${ }^{\circ}$ | DeskJet 660Cse | PCL-3 | Unsupported | Unsup. ${ }^{103}$ |
| HP C4551A ${ }^{\circ}$ | DeskJet 855C, 300 dpi color | PCL, Parallel QuickDraw/LT | Unsupported | Unsup. ${ }^{103}$ |
| HP C4555A ${ }^{\circ}$ | DeskJet 870Cxi Printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |
| HP C4562A-F/K | DeskJet 690C printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |
| HP C4562B | DeskJet 695C printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |

Text Printer Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- |
| HP C4562C | DeskJet697C printer | IEEE-1284 | Unsupported | Unsup. $^{103}$ |
| HP C4562E | DeskJet 695Cci | IEEE-1284 | Unsupported | Unsup. $^{103}$ |
| HP C4565A |  |  |  |  |

Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C4713A | DesignJet 430 Monochrome |  |  |  |
| HP C4715A | DesignJet 450C Color |  |  |  |
|  | HP-RTL personality | HP-RTL | All Models | No RTL text driver |
|  | Serial interface | RS232 | All Models |  |
|  | Parallel i/f | Parallel | All Models |  |
| J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | No RTL text driver |
| HP C4723A | DesignJet 3000CP |  | Unsupported as text printer. | No RTL or HP-GL text driver. |
| HP C4724A | DesignJet3500CP |  |  |  |
|  | PostScript personality | Level 3 | All Models |  |
|  | HP-RTL personality | HP-RTL | Unsupported as text printer. | No RTL text driver |
|  | HP-GL/2 personality | HP-GL/2 | Unsupported as text printer. | No HP-GL text driver |
|  | Network Interface | 10BaseT | All Models |  |
|  | Parallel i/f | IEEE-1284 | Unsupported |  |
| $\begin{aligned} & \text { HP C5300A } \\ & \text { HP C5301A } \end{aligned}$ | OfficeJet 1150C OfficeJet 1150Cse | IEEE-1284 | Unsupported | No drivers. |
| $\begin{aligned} & \hline \text { HP C5324A } \\ & \text { HP C5325A } \\ & \text { HP C5326A } \end{aligned}$ | Printer/Scanner/Copier base unit PSC 370 <br> PSC 380 | IEEE-1284 | Unsupported | No drivers |
| HP C5313A <br> HP C5314A <br> HP C5315A <br> HP C5317A | OfficeJet 600 <br> Office etet 610 <br> OfficeJet 630 <br> OfficeJet 635 <br> Color printer, color copier, color scanner, B\&W FAX | IEEE-1284 | Unsupported | No drivers |
| HP C5364A <br> HP C5365A <br> HP C5366A <br> HP C5367A <br> HP C5368A <br> HP C5369A | OfficeJet 1170Cse OfficeJet 1175Cse OfficeJet 1170Cxi OfficeJet 1175Cxi OfficeJet 1170C OfficeJet 1175 C | IEEE-1284 | Unsupported | No drivers |
| HP C5620A/B | HP 5000 D640 Printer | PCL-5e |  |  |
| C5630A | PostScript Level 2 | PS lve 2 |  |  |
|  | Parallel interface | IEEE-1284 |  |  |
| w/J2x9x | JetDirect-EX LAN interface | 802.3/5 |  |  |
| HP C5640B | LPQ 1400 printer |  |  |  |
|  | HP command lang. | PCL-2 | All Models | 9.03-10.20 |
|  | Parallel interface | Parallel | All Models | 9.03-10.20 |
|  | Serial interface | RS232 | All Models | 9.03-10.20 |
| HP J2593/94x | JetDirectEX+3 | 802.3 | All Models | $9.03-10.20^{105}$ |
| HP C5870/71A | DeskJet 720C/722C printer | IEEE-1284, PPA | Unsupported | Unsup. ${ }^{103}$ |
| HP C5876A | DeskJet 890C printer | $\begin{aligned} & \text { IEEE-1284, PCL- } \\ & 5 \end{aligned}$ | Unsupported | Unsup. ${ }^{103}$ |
| HP C5877A | DeskJelt 890Cse printer | $\begin{aligned} & \text { IEEE-1284, PCL- } \\ & 5 \end{aligned}$ | Unsupported | Unsup. ${ }^{103}$ |
| HP C5884A/A-F | DeskJet 670C printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |
| HP C5885A | DeskJet670K printer | IEEE-1284 | Unsupported | Unsup. ${ }^{103}$ |

## Text Printer Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- |

Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP $2235{ }^{\circ}$ | RuggedWriter, 480 cps , 14-in. | any | Unsupported | Unsup. |
| HP 2276A ${ }^{\circ}$ | DeskJet, 300 dpi, A-size | either | Unsupported | Formerly supported by [SP] |
| HP 2277A ${ }^{\circ}$ | DeskJet Plus, 300 dpi, A-size | either | Unsupported | Formerly supported by [SP] |
| HP 2278A ${ }^{\circ}$ | DeskWriter (QuickDraw) | RS232 | Never supported | No driver |
| HP 2279A ${ }^{\circ}$ | DeskWriter Plus, (QuickDraw) | Apple | No interface | No driver |
| $\begin{aligned} & \text { HP } 25578120001^{\circ} \\ & \text { HP } 25578140001^{\circ} \end{aligned}$ | TI Model 8920 printer TI Model 8930 printer | RS232 | Unsupported | No driver (MPE/iX devices) |
| HP 256xA ${ }^{\circ} \mathrm{B}^{\circ}$ | ...series printers | PCL | Unsupported | Unsup. |
| HP $2562 \mathrm{C}^{\circ}$ | 420 lpm impact, 16-in. | PCL | All Models | 8.05-10.10 |
| HP $2563 \mathrm{C}^{\circ}$ | 420 lpm impact, 16-in. | PCL | All Models | 8.05-10.10 |
| HP $2564 \mathrm{C}^{\circ}$ | 840 lpm impact, 16-in. | PCL | All Models | 8.05-10.10 |
| HP 2565A ${ }^{\circ}$ | 600 lpm impact, 18-in. | PCL | Never supported | Unsup. |
| HP $2566 \mathrm{C}^{\circ}$ | 1200 lpm impact, 18 -in. | PCL | All Models | 8.05-10.10 |
| HP 2567C ${ }^{\circ}$ | 1600 lpm impact, 18 -in. | PCL | All Models | 8.05-10.10 |
| Option 046 | CIPER or simple | HP-IB | Unsupported | No HP-IB printer drivers |
| Option 049 | Serial interface | RS232 | All Models | 8.05-10.10 |
| Option 053 | Parallel Interface | Parallel | All Models | 8.05-10.10 |
| HP 2603A ${ }^{\circ}$ | 45 cps daisywheel | RS232 | Never supported | Unsup. |
| HP $2684^{\circ} \mathrm{A} / \mathrm{D} / \mathrm{P}$ | LaserJet/2000 | PCL | Unsupported | Unsup. |
| HP 2686A ${ }^{\circ}$ | LaserJet, 8 ppm | any | Never supported | Unsup. |
| HP 2686D ${ }^{\circ}$ | LaserJet 500 | any | Never supported | Unsup. |
| HP 2932A ${ }^{\circ}$ | 200 cps impact | RS232 | Unsupported | Unsup. |
| HP 2933A ${ }^{\circ}$ | 200 cps "Factory Printer" | any | Never supported | Unsup. |
| HP 2934A ${ }^{\circ}$ | 200 cps "Office Printer" | any | Unsupported | Unsup. |
| HP 33439P ${ }^{\text {oo }}$ | PostScript Level 1 cartridge for LaserJet-IID, IIP and -III | Font slot | Formerly supported: All Models | Formerly supported 8.05-10.10 [SP] |
| HP 334390 ${ }^{\circ}$ | PostScript Level 1 cartridge for LaserJet-IID, IIP, -III, IIID and IIIP | Font slot | All Models | 8.05-10.210 [SP] |
| HP 33440A ${ }^{\circ}$ | LaserJet-II, 8 ppm single | PCL-3 | Per interface | 8.0-10.01 $\nabla$ [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| w/C20715 ${ }^{\circ}$ | JetDirect 10baseT TCP/IP interface | XIO | Formerly supported | 8.0-10.01 $\nabla$, w/JetAdmin |
| w/C2071 ${ }^{\circ}$ | JetDirect 10base2 TCP/IP interface | XIO | Formerly supported | 8.0-10.01 $\nabla$, w/JetAdmin |
| HP 33447A ${ }^{\circ 0}$ | LaserJet-IID, 8 ppm double | PCL-3 | All Models | 8.05-10.20 [ [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| w/C20715 ${ }^{\circ}$ | JetDirect 10baseT TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |
| w/C2071 ${ }^{\circ}$ | JetDirect 10base2 TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |
| HP 33449A ${ }^{\circ}$ | LaserJet-III, 8 ppm single | PCL-4 | All Models | 8.05-10.20 [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| w/C20715 ${ }^{\circ}$ | JetDirect 10baseT TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |
| w/C2071 ${ }^{\circ}$ | JetDirect 10base2 TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |

## Text Printer Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: |
| HP 33459A ${ }^{\circ}$ | LaserJet-IIID, 8 ppm double | PCL-4 | All Models | 8.05-10.20 [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| w/C20715 ${ }^{\circ}$ | JetDirect 10baseT TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |
| w/C2071T ${ }^{\circ}$ | JetDirect 10base2 TCP/IP interface | XIO | All Models | 8.0-10.20, w/JetAdmin |
| HP 33471A ${ }^{\circ}$ | LaserJet-IIP, 4 ppm single | PCL-4 | All Models | 8.05-10.20 [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| HP 33481A ${ }^{\circ}$ | LaserJet-IIIP, 4 ppm single | PCL-5 |  | 8.05-10.20 [SP] |
|  | Parallel interface | Parallel | Unsupported | Unsup. |
|  | Serial interface | RS232 | Unsupported | Unsup. |
| HP 33491A ${ }^{\circ}$ | LaserJet-IIIsi, 17 ppm double |  |  |  |
|  | HP Printer Command Language | PCL-5 |  | 8.05-10.20 [SP] |
| HP $33494{ }^{\circ} \mathrm{B} / \mathrm{C}$ | Adobe PostScript | Ps | All Models | 8.05-10.20 |
| HP $33494{ }^{\circ} \mathrm{B} / \mathrm{C}$ | PCL/Ps autoswitching | PCL/Ps | All Models | 9.0-10.20 |
|  | Parallel interface | Parallel | All Models | 8.05-10.20 |
|  | Serial interface | RS232 | All Models | 8.05-10.20 |
| w/C2059 ${ }^{\circ}$ | JetDirect 10base2/AUI TCP/IP interface | MIO | All Models | 8.05-10.20 $\overline{\text {, w/JetAdmin }}$ |
| w/ J2340A ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models | 8.05-10.20 F , w/JetAdmin |
| HP 3630A ${ }^{\circ}$ | PaintJet 180 dpi color graphics | PCL |  | Formerly Supported: 8.05-10.10 [SP] |
| Option 001 | Serial interface | RS232 | Formerly Supported: All Models | Formerly Supported: \| 8.05-10.10 |
| Option 002 | IEEE-488 interface | HP-IB | Unsupported | No HP-IB printer drivers |
| Option 004 | Parallel interface | Parallel | All Models | Formerly Supported: \| 8.05-10.10 |
| HP $41063^{\circ} \mathrm{A} / \mathrm{B}$ | Asian Workstation printer | PCL | Formerly Supported: All Models | Formerly Supported: 8.05-10.10 |
|  | Serial interface | RS232 | Formerly Supported: All Models | Formerly Supported: 8.05-10.10 $\nabla$ |
|  | HP-IB interface | HP-IB | Unsupported | No HP-IB printer drivers |
| HP 82906A ${ }^{\circ 0}$ | 160 cps impact | HP-IB | Unsupported | No HP-IB printer drivers |
| HP 9876A ${ }^{\circ}$ | 480 lpm thermal | HP-IB | Unsupported | No HP-IB printer drivers |
| HP-Apollo HCD-MMP ${ }^{\circ}$ | (Genicom) impact | RS232 | Never supported | Unsup. |
| HP-Apollo K1626 ${ }^{\circ}$ | "PTR-2106" PostScript, 6 ppm | RS232 | Never supported | Unsup. |
| HP-Apollo K1627 ${ }^{\circ}$ | "PTR-2115" PostScript, 15 ppm | RS232 | Never supported | Unsup. |
| HP-Apollo K2132 ${ }^{\circ 0}$ | Tek Phasor Ps | RS232 | Never supported | Unsup. |
| HP-Apollo LP26-SPE ${ }^{\circ}$ | LP/26 PostScript | ISA | Never supported | No driver |
| HP-Apollo LP26-S ${ }^{\circ}$ | LP/26 PostScript | RS232 | Never supported | Unsup. |
| HP-Apollo LP80010 ${ }^{\circ}$ | LP 800 PostScript | Parallel | Never supported | Unsup. |

## Text Printer Notes:

102. Card may require firmware upgrade for use with JetAdmin or later.
103. There is no HP-UX native equivalent of the DeskJet Status Monitor, which is required to perform key administrative tasks on this printer.

In particular, HP-UX has no way to align the black and CYM cartridges; however, the alignment data is stored in NVRAM in the printer, so it is pos-
sible to perform the alignment on a PC , then connect the printer to a workstation.
104. Color support requires a patch prior to 10.10 .
105. Optimal printer/feature support is provided only via JetAdmin software (JetAdmin) and JetDirect network connection.
106. PPA (Performance Printing Architecture) printers are "Windows-only" printers (host RIP) and non-functional without a driver.

## Graphics Devices

In general, the graphics libraries rely on the Starbase device handlers for support. HP-PHIGS, however, cannot link Starbase hardcopy device handlers. Hardcopy from PHIGS applications is limited to native application hardcopy support (if any), the capture(1) command, and the screenpr(1) command.

For monitors (i.e. graphics interfaces and processors), graphics package software support is limited to X-windows unless noted (see footnote table).
For some devices, separate matrix rows document hardware and software support. This is because software support is principally dependent on command set (device personality) and hardware support is dependent on the physical interface.

## Software Support Notes

cadplt2 - The cadplt2 HP-GL/2 device handler emits the correct PCL-5 instruction to place devices in HP-GL/ 2 mode, but does not place them back in PCL mode upon completion.
pcltrans - Devices supported by pcltrans are also supported by screenpr. Other than for screen-copies, output to these devices requires generating a Starbase bitmap file, and then translating that file to HP Printer Command Language with the pcltrans(1) command. Both mono-

The B1917B SharedPrint product can convert CGM to HPGL/2, and can convert any of the following formats to HP-PCL, PostScript and HP-RTL:
Starbase, TIFF, JPEG, LZW, Packbits, GIF, JFIF, XWD and XBM. Devices supported by SharedPrint are noted [SP].
For most devices, this table refers only to the graphics capability. Refer to the Graphics Video, Text Printers and Interfaces tables for information on non-graphics support of these devices. This table addresses only support of graphics capabilities, irrespective of connect method (unless the connect method affects graphics support).
Printers which are not supported as text devices (e.g. most Apple-specific models) are also not supported for
chrome and color printing are supported. A Gescape is required to create a Starbase bitmap file from HP-GKS.
screenpr - Output to devices is limited to capturing a copy of an image appearing on the video screen. Resolution is therefore limited by the CRT. The screenpr (1) command line may also appear in the hardcopy output unless clipping options are specified. Both monochrome and color printing are supported.
graphics, and to conserve space, are not listed here. See the Text Printers section to confirm lack of support.
HP PA-RISC Workstation HP-UX supports networked (JetDirect), RS-232C and Centronics parallel serial printers and plotters. LAN support requires JetAdmin JetDirect Print Manager (See Glossary) Read-back from ECP, EPP and IEEE-1284 devices is not yet supported. The simple HP-IB driver provided for C16xx-series plotters has not been tested with printers. No HP-IB CIPER driver exists for PARISC Workstations.

## Graphics Device Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Hardware Qualification and <br> Support | Software Subsystem Support |
| :--- | :--- | :--- | :--- | :--- |$|$| HP A1439A | CRX-24 video interface |
| :--- | :--- |
| HP A1454A | CRX-24Z daughter board |
| HP A1471A |  |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP A1924A ${ }^{107}$ | GRX 1280¥1024, 72 Hz monochrome interface | SGC | See Graphics Video section | PHIGS 2.11, Starbase 8.05-10.10, X-11 8.05-10.10 |
| HP A2091A | CRX-48Z processor, 1280¥1024¥48, 72 Hz | SGC-ext | See Graphics Video section |  |
| HP A2262A | Dual CRX Graphics | SGC | See Graphics Video section |  |
| HP A2269A ${ }^{\circ}$ | Dual CRX Upgrade | +1 SGC | See Graphics Video section | $\begin{aligned} & \text { PHIGS 2.2, Starbase 8.07-10.10, X-11 } \\ & \text { 8.07-10.10 } \end{aligned}$ |
|  | Dual to quad CRX Upgrade | +1 SGC | See Graphics Video section | $\begin{aligned} & \text { PHIGS 2.2, Starbase 8.07-10.10, X-11 } \\ & \text { 8.07-10.10 } \end{aligned}$ |
| HP A2270A | CRX-24 to Dual CRX-24 Upgrade | SGC | See Graphics Video section | PHIGS 2.2, Starbase 8.07-10.10, X-11 8.07-10.10 |
|  | or CRX-->CRX-24 Upgrade | SGC | See Graphics Video section | $\begin{aligned} & \text { PHIGS 2.2, Starbase 8.07-10.10, X-11 } \\ & \text { 8.07-10.10 } \end{aligned}$ |
| HP A2271A | CRX to CRX-24 Upgrade | SGC | See Graphics Video section | $\begin{aligned} & \text { PHIGS 2.2, Starbase 8.07-10.10, X-11 } \\ & \text { 8.07-10.10 } \end{aligned}$ |
| HP A2272A | PVRX to CRX--> Upgrade | SGC | See Graphics Video section | PHIGS 2.2, Starbase 8.07-10.10, X-11 8.07-10.10 |
| HP A2666A | CRX-24Z to CRX-48Z Upgrade | SGC | See Graphics Video section | 9.0-10.10 |
| HP A2667A | PVRX to CRX-48Z Upgrade | SGC | See Graphics Video section | Starbase 9.05-10.10 X-11 9.0-10.10 |
| HP A2673A | CRX-24, interface only | SGC | See Graphics Video section | Starbase 9.05-10.10 X-11 9.0-10.10 |
| HP A2674A | CRX-24Z upgrade | SGC | See Graphics Video section | Starbase 9.05-10.10 X-11 9.0-10.10 |
| HP A2675A | CRX-48Z, interface only | SGC | See Graphics Video section | Starbase 9.05-10.10, X-11 9.0-10.10 |
| HP A2838A ${ }^{\circ}$ | 3-button Mouse | HP-HIL | All HP-HIL Models | 8.05-10.10 |
| HP A2839A\% $/ \mathrm{B}$ | 3-button Mouse | PS/2 | All PS/2 Models | 9.03-10.20 |
| HP A2839C | 3-button Mouse, quartz | PS/2 | All PS/2 Models | 9.03-10.20 |
| HP A2878A | Second 712 video | GIO | See Graphics Video section | 9.03-10.20 |
| HP A4025A | Hi-res graphics upgrade | VRAM | See Graphics Video section | 9.03-10.20 |
| HP A4070A ${ }^{\circ}$ | HyperCRX8 graphics adaptor | GSC | See Graphics Video section |  |
| HP A4070B | HyperCRX8 graphics adaptor | GSC | See Graphics Video section |  |
| HP A4071A ${ }^{\circ}$ | HyperCRX24 graphics adaptor | GSC | See Graphics Video section |  |
| HP A4071B | HyperCRX24 graphics adaptor | GSC | See Graphics Video section |  |
| HP A4072A | HCRX 3D Accelerator | Daughter | See Graphics Video section |  |
| HP A4073A ${ }^{\circ}$ | HyperCRX48Z graphics adaptor | GSC | See Graphics Video section |  |
| HP A4073B | HyperCRX48Z graphics adaptor | GSC | See Graphics Video section |  |
| HP A4077A | CR 2D color video | GSC | See Graphics Video section |  |
| HP A4077B | CR 2D color video | GSC | See Graphics Video section |  |
| HP A4078A | Dual CR video | GSC | See Graphics Video section |  |
| HP A4079A ${ }^{\circ}$ | HCRX-8Z | GSC | See Graphics Video section |  |
| HP A4079B | HCRX-8Z (A4070B plus A4072A bundle) | GSC | See Graphics Video section |  |
| HP A4126A ${ }^{\circ}$ | VRAM \& 17-in. CRT | 712 | Model 712/100 |  |
| HP A4211A | HP VISUALIZE-48 | GSC | See Graphics Video section |  |
| HP A4217A | Dual head, dual LAN | $\begin{array}{\|l\|} \hline \text { GIO+ } \\ \text { TSIO } \end{array}$ | See Graphics Video section | 9.03 |
| HP A4220A $/$ B | PS/2 (host) to HP-HIL (keyboard only) adaptor | PS/2 | Model 712 |  |
| HP A 4244A | HP VISUALIZE-48 (formerly HCRX-48Z) | GSC | See Graphics Video section |  |
| HP A4245A | Texture Memory for VISUALIZE-48 | Daughter | See Graphics Video section |  |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP A4246A | HP VISUALIZE-48XP | 2xGSC, EVC | See Graphics Video section |  |
| HP A4244A | HP VISUALIZE-48 (formerly HCRX-48Z) | GSC | See Graphics Video section |  |
| HP A4247A | 48XP Texture Memory | Daughter | See Graphics Video section |  |
| HP A4248A | Video export card | GSC daugh- <br> ter | See Graphics Video section |  |
| HP A4253A | Freedom S3150 graphics accelerator | GSC | See Graphics Video section | 9.05 |
| HP A4254A | Freedom S3250 graphics accelerator | GSC | See Graphics Video section | 9.05 |
| HP A4255A | Freedom S 3400 graphics accelerator | GSC | See Graphics Video section | 9.05 |
| HP A4267A | 8-plane graphics video | GSC-M | Model 743 w/A4262A | 9.05 |
| HP A4315A | HCRX-8VME | $\begin{aligned} & \text { Large GSC- } \\ & \text { M } \end{aligned}$ | See Graphics Video section |  |
| HP A4316A | HCRX-24VME | $\begin{aligned} & \text { Large GSC- } \\ & \text { M } \end{aligned}$ | See Graphics Video section |  |
| HP A4333A | HP VISUALIZE-IVX | GSC daugh- <br> ter | See Graphics Video section |  |
| HP A4360A ${ }^{\circ}$ | SpaceBall 2003 3D XYZ |  | See the Human Interface Devices section |  |
| HP A4361A ${ }^{\circ}$ | SpaceBall 3003 3D XYZ |  | See the Human Interface Devices section |  |
| HP A4361C | SpaceBall 3003FLX |  | See the Human Interface Devices section |  |
| HP A4362A | 8-Dial Box |  | See the Human Interface <br> Devices section |  |
| HP A4363A | 32-Button Box |  | See the Human Interface Devices section |  |
| HP A4364A | 12"¥12" Tablet |  | See the Human Interface Devices section |  |
| HP A4365A | 12"\#18" Tablet |  | See the Human Interface <br> Devices section |  |
| HP A4441A | HP VISUALIZE-8 (aka HCRX-8Z, A4070B+A4242A) | GSC | See Graphics Video section |  |
| HP A4442A | HP VISUALIZE-24 (aka HCRX-24Z, A4071B + A4242A) | GSC | See Graphics Video section |  |
| HP A4443A | Upgrade HCRX-8Z/24Z to VISUALIZE-8/24 | GSC | See Graphics Video section |  |
| HP A4450A | HP VISUALIZE-EG | GSC, EVC | See Graphics Video section |  |
| HP A4451A | HP Dual VISUALIZE-EG | GSC, EVC | See Graphics Video section |  |
| HP A4452A | 2MB Add-on EG Memory | Daughter | See Graphics Video section |  |
| HP A4455A | HP VISUALIZE-48XP | HSC Large, EVC | See Graphics Video section |  |
| HP A4552A | HP VISUALIZE-FX2, EVC | PCI-64 | See Graphics Video section |  |
| HP A4553A | HP VISUALIZE-FX4, EVC | PCI-64 | See Graphics Video section |  |
| HP A4554A | HP VISUALIZE-FX6, EVC | PCI-64 | See Graphics Video section |  |
| HP A4559A | Texture Map Accelerator for VISUALIZEFX4 | Daughter | See Graphics Video section |  |
| HP A4560A | Texture Map Accelerator for VISUALIZEFX6 | Daughter | See Graphics Video section |  |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP A4959A | HP SpaceBall 2003FLX |  | See the Human Interface Devices section |  |
| HP A4977A | VISUALIZE-EG/PCI | PCI-32, Univ | See Graphics Video section |  |
| HP CI120A ${ }^{107}$ | ScanJet 4s, mechanism | RS232 | Unsupported | No software |
| HP C1127A | ScanJet 4s, PC | RS232 | Unsupported | No software |
| HP C1129A | ScanJet 4s, Mac | RS232 | Unsupported | No software |
| HP C1135A | ScanJet Office (4p, w/ADF and ISA card) | mcSCSI | Under Investigation |  |
| HP C1137A | ScanJet 4p (w/ISA card) | mcSCSI | All Models ${ }^{114}$. ISA card not used. | $9.07 \perp 10.01-11.0^{114}$ |
| HP C1138A | ScanJet 4p (w/MCA card) | mcSCSI | All Models ${ }^{114}$. MCA card not used. | $9.07 \perp 10.01-11.0^{114}$ |
| HP CII39A | ScanJet 4p (w/Mac software) | mcSCSI | All Models ${ }^{114 .}$. Mac s/wnot used. | $9.07 \perp 10.01-11.0^{114}$ |
| HP CI200A ${ }^{\circ}$ | Asian System Printer | RS232, APCL | All Models |  |
| HP C1202A | Asian Serial Printer | APCL | All Models |  |
| Option 1AA | Parallel interface | Parallel | All Models |  |
| Option 1A8 | IEEE-488 interface | HP-IB |  |  |
| Option 1A9 | Serial interface | RS232 | All Models |  |
| HP C1205A | Asian System Printer | RS232, APCL | All Models |  |
| HP C1302A ${ }^{\circ}$ | ScanJet 4si, Ethernet, RJ45 | 802.3 | Unsupported | Unsupported (no GUI) |
| HP C1302A ${ }^{\circ}$ | ScanJet 4si, Token Ring, DB9, RJ45 | 802.5 | Unsupported | Unsupported (no GUI) |
| HP C1307A | Network ScanJet 5 10BaseT | $\begin{aligned} & \hline 802.3, \\ & \text { RJ45 } \end{aligned}$ | Unsupported | Unsupported (no GUI) |
| HP C1308A | Network ScanJet 5 TokenRing | $\begin{array}{\|l\|} \hline 802.5, \\ \text { DB9 } \end{array}$ | Unsupported | Unsupported (no GUI) |
| HP C1309A | Network ScanJet 5 100VG | $\begin{array}{\|l} \text { 802.12, } \\ \text { RJ45 } \end{array}$ | Unsupported | Unsupported (no GUI) |
| HP C1310A | Network ScanJet 5 100BaseT | $\begin{array}{\|l} \hline 802.3 u, \\ \text { RJ45 } \end{array}$ | Unsupported | Unsupported (no GUI) |
| HP C1600A ${ }^{\circ 0}$ | 7600 Model 240D plotter | HP-GL/2 | Unsupported | Unsupported |
| HP C1601A ${ }^{\circ 0}$ | 7600 Model 240E plotter | HP-GL/2 | Unsupported | Unsupported |
| HP C1602A ${ }^{\circ}$ | PaintJet XL, A/A4,B/A3-size color inkjet | PCL | Per interface | pcltrans 8.05, screenpr 8.05 |
| Option 1AX | Serial/parallel interface | Parallel | All Models | pcltrans 8.05, screenpr 8.05 |
| Option 1AX | Serial/parallel interface | RS232 | All Models | pcltrans 8.05, screenpr 8.05 |
| Option 1A8 | IEEE-488/serial interface | HP-IB | Unsupported | Unsupported |
| w/C1608A | HP-GL/2 cartridge | HP-GL/2 | Per interface | cadplt2 8.05 |
| HP C1620A ${ }^{\circ}$ | Series 7600 Model 355, E-size color electrostatic plotter/printer | HP-GL/2 | Per interface | Starbase 8.05 |
|  | IEEE-488 Interface | HP-IB | Unsupported |  |
|  | Serial Interface | RS232 | All Models | Starbase 8.05 |
|  | Parallel Interface | Parallel | All Models | Starbase 8.05 |
| $\begin{aligned} & \text { HP C1625Aㅇㅇㅏ } \\ & \mathrm{C} 1629 \mathrm{~A}^{\circ} \end{aligned}$ | Series 7600 Model 250, D-size monochrome electrostatic plotter/printer | HP-GL/2 | Per interface | Starbase 8.05 [SP] |
|  | IEEE-488 Interface | HP-IB | Unsupported | Starbase 8.05 |
|  | Serial Interface | RS232 | All Models | Starbase 8.05 |
|  | Parallel Interface | Parallel | All Models | Starbase 8.05 |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \mathrm{HP} \mathrm{C1627A}^{\circ \circ}, \mathrm{HP} \\ & \mathrm{C} 1631 \mathrm{~A}^{\circ \circ} \end{aligned}$ | Series 7600 Model 255, E-size monochrome electrostatic plotter/printer | HP-GL/2 | Per interface | Starbase 8.05 [SP] |
|  | IEEE-488 Interface | HP-IB | Unsupported | Starbase 8.05 |
|  | Serial Interface | RS232 | All Models | Starbase 8.05 |
|  | Parallel Interface | Parallel | All Models | Starbase 8.05 |
| HP C1633 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | DesignJet inkjet plotter |  |  |  |
|  | Vector language | HP-GL/2 | All Models | Starbase, [SP] |
|  | Raster language | HP-RTL | All Models | 8.07 |
|  | Serial Interface | RS232 | All Models |  |
|  | Parallel Interface | Parallel | All Models |  |
| w/C1642A ${ }^{\circ}$ | HP-IB Interface | MIO |  |  |
| w/C2059T ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO |  |  |
| HP C1645A ${ }^{\circ}$ | PaintJet XL300 color inkjet printer |  |  |  |
|  | Vector language | HP-GL/2 | All Models | 8.07 [SP] |
|  | Raster language | PCL or HPRTL | All Models | SharedPrint 8.07 |
| w/C1651A ${ }^{\circ}$ | PostScript | Font | All Models | SharedPrint 9.0 |
| w/C1656A ${ }^{\circ}$ | PaintJet XL300/PS, w/PostScript | Any | All Models | 8.07 [SP] |
| HP C1676A ${ }^{\circ}$ | DeskJet 1200C | Any | All Models | 9.05 [SP] |
|  | HP-PCL | PCL-5c | All Models | 9.05 |
| W/C2865A ${ }^{\circ}$ | PostScript | PS-2 | All Models | 9.05 |
| HP C1686A ${ }^{\circ}$ | DeskJet 1200C/PS | Any | All Models | 9.05-10.01 [SP] |
|  | HP-PCL | PCL-5c | All Models | 9.05 |
|  | PostScript | PS-2 | All Models | 9.05 |
| HP C1742A | LaserJet FAX | Any | Unsupported | No software |
| $\begin{aligned} & \text { HP C1750Aㅇ } \mathrm{HP} \\ & \mathrm{Cl}^{\circ} 757 \mathrm{~A}^{\circ} \end{aligned}$ | ScanJet-IIC color scanner (see also C1788BAㅇ) | nsSCSI ${ }^{108}$ | All Models ${ }^{109,114}$ Early Ilc scanners require dedicated SCSI bus. | $9.05-9.07 \perp 10.01-11.0^{110,114}$ |
| HP C1788A ${ }^{\circ}$ | ScanJet-IIC color scanner | nsSCSI ${ }^{108}$ | All Models ${ }^{114}$ Early Ilc scanners require dedicated SCSI bus. | $9.05-9.07 \perp 10.01-11.0^{110,114}$ |
| HP C1788BA ${ }^{\circ}$ | MPower ScanJet Ilcx or 3c color scanner | nsSCSI ${ }^{108}$ | All Models ${ }^{114}$ | $9.05-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C1790A ${ }^{\circ}$ | ScanJet-IIP scanner, w/ ISA card | mcSCSI | Requires dedicated SCSI bus. ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |
| HP C1797A/B | ScanJet-IIP scanner w/ISA card | mcSCSI | Requires dedicated SCSI bus. ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |
| HP C1799 ${ }^{\circ}$ / ${ }^{\text {B }}$ | ScanJet-IIP scanner for MacIntosh | mcSCSI | Requires dedicated SCSI bus. ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |
| HP C2001A ${ }^{\circ}$ | LaserJet 4 | PCL-5 | See Text Printers section. |  |
| w/C2080A ${ }^{\circ}$ | PostScript SIMM | Ps2 | See Text Printers section. |  |
| HP C2003A ${ }^{\circ}$ | LaserJet 4L | PCL-5 | See Text Printers section. |  |
| HP C2005A ${ }^{\circ}$ | LaserJet 4P | PCL-5 | See Text Printers section. |  |
| w/C2049A ${ }^{\circ}$ | PostScript Level 2 | Ps2 | See Text Printers section. |  |
| HP C2007A ${ }^{\circ}$ | LaserJet-IIP Plus, 4 ppm single | PCL-4 | All Models | pcltrans 8.05, screenpr 8.05, SharedPrint 9.0 |
| w/C2088A ${ }^{\circ}$ | PCL-5 ctg. | Font slot | All Models | cadplt2 8.05, pcltrans 8.05, screenpr 8.05, SharedPrint 8.05 |

Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2010A ${ }^{\circ}$ | LaserJet-4si, 17 ppm |  | Per interface |  |
|  | HP Printer Command Language | PCL-5 | All Models | cadplt2 8.07, pcltrans 8.07, screenpr 8.07, SharedPrint 8.07 |
|  | HP-GL/2 | HP-GL/2 | All Models | cadplt2 8.07, screenpr 8.07 |
| w/C2013A ${ }^{\circ}$ | PostScript Level 2 | Ps2 | All Models | SharedPrint 9.0 |
| HP C2011A ${ }^{\circ}$ | LaserJet-4si MX, 17 ppm |  |  |  |
|  | HP Printer Command Language | PCL-5 | All Models | cadplt2 8.07, pcltrans 8.07, screenpr 8.07, SharedPrint 8.07 |
|  | HP-GL/2 | HP-GL/2 | All Models | cadplt2 8.07, screenpr 8.07 |
|  | PostScript Level 2 | Ps2 | All Models | SharedPrint 9.0 |
| HP C2015A ${ }^{\circ}$ | LaserJet 4ML |  | See Text Printers section |  |
|  | PostScript Ivl 2 | Ps2 |  |  |
|  | HP-PCL-5 | PCL-5 |  |  |
| HP C2021A ${ }^{\circ}$ | LaserJet 4/M |  | See Text Printers section |  |
|  | PostScript lv 2 | Ps2 |  |  |
|  | HP-PCL-5 | PCL-5 |  |  |
| HP C2037A ${ }^{\circ}$ | LaserJet 4 Plus | PCL-5 | See Text Printers section |  |
| w/C2080A ${ }^{\circ}$ | PostScript SIMM | Ps2 |  |  |
| HP C2039A ${ }^{\circ}$ | LaserJet 4M Plus |  | See Text Printers section |  |
|  | HP-PCL | PCL-5 |  |  |
|  | PostScript | Ps2 |  |  |
| HP C2089A ${ }^{\circ}$ | PostScript Level 2 ctg. for LaserJet-III, IIID \& IIIP | Font slot | All Models | SharedPrint 8.05 |
| HP C2106A ${ }^{\circ}$ | DeskJet 500, 300 dpi A-size | RS232 | All Models | pcltrans 8.05, screenpr 8.05 |
|  | Parallel i/f | Parallel | All Models | As above. |
| HP C2114A ${ }^{\circ}$ | DeskJet 500C, 300 dpi color | PCL-3 | All Models | pcltrans 8.07, screenpr 8.07, SharedPrint 8.07 |
| HP C2121A ${ }^{\circ}$ | DeskJet 550C, 300 dpi color | PCL-3 | All Models | pcltrans 8.07, screenpr 8.07, SharedPrint 8.07 |
| HP C2145A ${ }^{\circ}$ | DeskJet 850C | PCL | Unsupported | Unsup. |
| HP C2170A ${ }^{\circ}$ | DeskJet 520, 300 dpi black | PCL-3 |  |  |
|  | X-Terminals |  |  |  |
| HP C2301 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | Base unit | 802.3, X-11 | All Models | Starbase 8.05-8.07 X-11 8.05-8.07 |
| HP C2302A ${ }^{\circ}$ | Monochrome, 17-in. | 802.3, X-11 | All Models | Starbase 8.05-8.07, X-11 8.05-8.07 |
| HP C2303 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | VGA color, 14-in. | 802.3, X-11 | All Models | Starbase 8.05-8.07, X-11 8.05-8.07 |
| HP C2304 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | Hi-res color, 16-in. | 802.3, X-11 | All Models | Starbase 8.05-8.07 X-11 8.05-8.07 |
| HP C2305 ${ }^{\circ} \mathrm{A} / \mathrm{B}$ | Gray Scale, 19-in. | 802.3, X-11 | All Models | Starbase 8.05-8.07, X-11 8.05-8.07 |
| HP C23078 ${ }^{\circ 0}$ | Color, Japan, 19-in. | 802.3, X-11 | All Models | Starbase 8.05-8.07, X-11 8.05-8.07 |
| HP C2354A ${ }^{\circ}$ | 840 lpm dot-matrix impact printer | PCL | Per Interface |  |
| HP C2356A ${ }^{\circ}$ | 1100 lpm dot-matrix impact printer | PCL | Per Interface |  |
| $\begin{aligned} & \text { HP C2500A }{ }^{107} \\ & \text { HP C2500B } \end{aligned}$ | ScanJet-Ilcx scanner, mech. | mcSCSI | All Models ${ }^{114}$ | $9.01-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C2505B | ScanJet-4c scanner, w/NEC i/f | mcSCSI | All Models ${ }^{114}$ (NEC card not used) | $9.05-9.07 \pm 10.01-11.0{ }^{110,114}$ |
| HP C2507${ }^{\circ} / \mathrm{B}$ | ScanJet-Ilcx scanner, w/ISA card | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.01-9.07 \perp 10.01-11.0^{110,114}$ |

Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2514B/D | ScanJet-4c scanner, w/ISA card. | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.05-9.07 \perp 10.01-11.0^{110,114}$ |
| HP C2516B | ScanJet-4c scanner, w/Mac cable | mcSCSI | All Models ${ }^{114}$ | $9.05-9.07 \perp 10.01-11.00^{110,114}$ |
| HP C2520A ${ }^{107}$ | ScanJet-3c scanner, mechanism | mcSCSI | All Models ${ }^{114}$ | $9.01-9.07+10.01-11.00^{110,114}$ |
| HP C2520B ${ }^{107}$ | ScanJet-4c scanner, mechanism | mcSCSI | All Models ${ }^{114}$ | $9.05-9.07 \perp 10.01-11.00^{110,114}$ |
| HP C2520C ${ }^{107}$ | ScanJet-4c scanner, mechanism | mcSCSI | All Models ${ }^{114}$ | $9.05-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C2527A ${ }^{\circ}$ | ScanJet-3c scanner, w/ISA card (if already owned - otherwise order C1788BAㅇ) | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.01-9.07 \perp 10.01-11.0^{110,114}$ |
| HP C2527B/C | ScanJet-4c scanner, w/ISA card. | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.05-9.07 \perp 10.01-11.00^{110,114}$ |
| HP C2527D | ScanJet-4Cse scanner, w/ISA card. | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.05-9.07 \perp 10.01-11.00^{110,114}$ |
| HP C2528A ${ }^{\circ}$ | ScanJet-3c scanner, w/MCA card (if already owned - otherwise order C1788BÁ) | mcSCSI | All Models ${ }^{114}$ (MCA card not used) | $9.01-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C2528B | ScanJet-4c scanner, w/MCA card | mcSCSI | All Models ${ }^{114}$ (MCA card not used) | $9.05-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C2529A ${ }^{\circ}$ | ScanJet-3c scanner, w/Mac cable (if already owned - otherwise order C1788BÁ) | mcSCSI | All Models ${ }^{114}$ | $9.01-9.07 \perp 10.01-11.0{ }^{110,114}$ |
| HP C2529B | ScanJet-4c scanner, w/Mac cable | mcSCSI | All Models ${ }^{114}$ | $9.05-9.07 \perp 10.01-11.0^{110,114}$ |
| $\begin{aligned} & \text { HP C2572A/HP } \\ & \text { C2777A } \end{aligned}$ | ScanJet-3p scanner, w/ISA card | mcSCSI | All Models ${ }^{114}$ (ISA card not used) | $9.07 \perp 10.01-11.0^{110,114}$ |
|  | 700/RX Family X-Terminals |  |  |  |
| HP C2701A ${ }^{\circ 0} \mathrm{~B}^{\circ}$ | Mi base unit, mono. | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2702A ${ }^{\circ} / \mathrm{B}^{\circ}$ | 19MiX-station, mono. | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2704A ${ }^{\circ}$ | Ci base unit, color | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2705A ${ }^{\circ}$ | 14 Ci X-station, color | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2706A ${ }^{\circ}$ | 16CiX-station, color | $\mathrm{X}-11$ | All Models | Starbase 8.05, X-118.05 |
| HP C2709A ${ }^{\circ}$ | Ca base unit, color | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2711A ${ }^{\circ}$ | 19 CaX X-station, color | X-11 | All Models | Starbase 8.05, X-118.05 |
| HP C2730A ${ }^{\circ}$ | Envizex i base X-Station | 802.3 | All Models |  |
| HP C2731A ${ }^{\circ}$ | Envizex a base X-Station | 802.3 | All Models |  |
| HP C2847A ${ }^{\circ}$ | DesignJet 600, D-size, monochrome |  | All Models |  |
|  | Vector language | HP-GL/2 | All Models |  |
|  | Raster language | HP-RTL | All Models |  |
|  | Parallel interface | Parallel | All Models |  |
|  | Serial interface | RS232 | All Models |  |
| w/C2059 ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models |  |
| w/ J2340A ${ }^{\circ}$ | JetDirect TCP/IP interface | MIO | All Models |  |
| HP C2847A ${ }^{\circ}$ | DesignJet 600, D-size, monochrome |  | All Models |  |
|  | Vector language | HP-GL/2 | All Models |  |
|  | Raster language | HP-RTL | All Models |  |
|  | Parallel interface | Parallel | All Models |  |
|  | Serial interface | RS232 | All Models |  |
| w/J255xA | JetDirect TCP/IP interface | MIO | All Models |  |

Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C2848A ${ }^{\circ}$ | DesignJet 600, E-size, monochrome |  | All Models |  |
|  | Vector language | HP-GL/2 | All Models |  |
|  | Raster language | HP-RTL | All Models |  |
|  | Parallel interface | Parallel | All Models |  |
|  | Serial interface | RS232 | All Models |  |
| w/J255xA | JetDirect TCP/IP interface | MIO | All Models |  |
| HP C2858A $/ \mathrm{B}$ | DesignJet 650C, D-size, color |  | All Models | SharedPrint |
|  | Vector language | HP-GL/2 | All Models |  |
|  | Raster language | HP-RTL | All Models |  |
| w/C2882A | PostScript lang. for C2858A | Ps2 | All Models |  |
| w/C3545A | PostScript lang. for C2858B | Ps2 | All Models |  |
|  | Parallel interface | Parallel | All Models |  |
|  | Serial interface | RS232 | All Models |  |
|  | JetDirect TCP/IP interface | MIO | All Models |  |
| HP C2859A\% ${ }^{\text {/ }}$ | DesignJet 650C, E-size, color |  | All Models | SharedPrint |
|  | Vector language | HP-GL/2 | All Models |  |
|  | Raster language | HP-RTL | All Models |  |
| w/C2882A | PostScript lang. for C2858A | Ps2 | All Models |  |
| w/C3545A | PostScript lang. for C2858B | Ps2 | All Models |  |
|  | Parallel interface | Parallel | All Models |  |
|  | Serial interface | RS232 | All Models |  |
|  | JetDirect TCP/IP interface | MIO | All Models |  |
| HP C3079A | LaserJet Companion | IEEE-1284 | Unsupported | No drivers |
| HP C3091A | LaserJet 6P/EX, printer \& JetDirect EX bundle | 802.3 | All Models | 10.20 |
| HP C3100A ${ }^{\circ}$ | Color LaserJet A/B-size | PCL-5 | All Models | 9.01-10.20. [SP] Requires patch prior to 9.07 |
| w/C3112A | PostScript Level 2 | SIMM | All Models | 9.05-10.20 |
|  | Parallel port | Parallel | All Models | 9.05-10.20 |
| w/J255xA | JetDirect TCP/IP interface | MIO | All Models | 9.05-10.20 |
| HP C3141A | LaserJet 4V A/B-size | PCL-5 | All Models | 10.01-10.20 |
| w/C3159A | PostScript Level 2 | SIMM | All Models | 10.01-10.20 |
|  | Parallel port | Parallel | All Models | 10.01-10.20 |
| w/J255xA | JetDirect TCP/IP interface | MIO | All Models | 10.01-10.20 |
| HP C3142A | LaserJet 4MV A/B-size | PCL-5 | All Models | 10.01-10.20 |
|  | PostScript Level 2 | Ps2 | All Models | 10.01-10.20 |
|  | Parallel port | Parallel | All Models | 10.01-10.20 |
|  | JetDirect TCP/IP interface | 802.3 | All Models | 10.01-10.20 |
| HP C3150A ${ }^{\circ}$ | LaserJet 5P, 600 dpi , 6ppm | PCL5e | See Text Printers section |  |
| HP C3170A | DraftPro pen plotter, D-size | HP-GL/2 | Per Interface |  |
|  | Serial interface | RS232 |  |  |
|  | Parallel interface | Parallel |  |  |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3171A | DraftPro pen plotter, E-size | HP-GL/2 | Per Interface |  |
|  | Serial interface | RS232 |  |  |
|  | Parallel interface | Parallel |  |  |
| HP C3180A ${ }^{\circ}$ | DesignJet 200 (A1/D) | $\begin{aligned} & \text { HP-GL/2, } \\ & \text { HP-RTL } \end{aligned}$ | All Models | SharedPrint |
|  | Serial interface | RS232 |  |  |
|  | Parallel interface | Parallel |  |  |
| HP C3181A ${ }^{\circ}$ | DesignJet 200 (AO/E) | HP-GL/2, HP-RTL | All Models | SharedPrint |
|  | Serial interface | RS232 |  |  |
|  | Parallel interface | Parallel |  |  |
| HP C3187A | DesignJet 220 inkjet plotter, 600 dpi, Dsize | HP-GL/2, HP-RTL | All Models | SharedPrint |
|  | Serial interface | RS232 | Not functional | N/A |
|  | Parallel interface | Parallel | Via J238x/9x | N/A |
| J238x/9x | JetDirect EX network adaptor | 802.3/5 | All Models | 9.03-9.07 $\perp 10.01-10.20 \mathrm{w} / \mathrm{JetAdmin}$ software |
| HP C3188A | DesignJet 220 inkjet plotter, 600 dpi, E-size | HP-GL/2, <br> HP-RTL | All Models | SharedPrint |
|  | Serial interface | RS232 | Not functional | N/A |
|  | Parallel interface | Parallel | Via J238x/9x | N/A |
| J238x/9x | JetDirect EX network adaptor | 802.3/5 | All Models | 9.03-9.07 $\perp 10.01-10.20 \mathrm{w} / \mathrm{JetAdmin}$ software |
| HP C3190A | DesignJet 250C inkjet plotter, 600 dpi, Dsize | $\begin{aligned} & \hline \text { HP-GL/2, } \\ & \text { HP-RTL } \end{aligned}$ | All Models | 9.05-10.01 |
|  | Serial interface | RS232 |  |  |
|  | Parallel interface | Parallel |  |  |
| J238x ${ }^{\circ} 9 \mathrm{xA}$ | Network i/f | 802.3 | All Models | 9.05-10.10, w/JetAdminJetAdmin |
| HP C3191A | DesignJet 230 inkjet plotter, 600 dpi, E-size | $\begin{aligned} & \text { HP-GL/2, } \\ & \text { HP-RTL } \end{aligned}$ | All Models | 9.05-10.10 |
| w/C3199A | PostScript | Ps2 | All Models | 9.05-10.10 |
|  | Serial interface | RS232 |  |  |
|  | Parallel i/f | Parallel |  |  |
| J238x ${ }^{\circ} 9 \mathrm{xA}$ | Network i/f | 802.3 | All Models | 9.05-10.10, w/JetAdmin |
| $\begin{aligned} & \hline \text { HP C3195A } \\ & \text { HP C3196A } \end{aligned}$ | DesignJet 750C inkjet plotter, 600 dpi , AO/ E-size | $\begin{aligned} & \hline \text { HP-GL/2, } \\ & \text { HP-RTL } \end{aligned}$ | All Models | 9.05-10.10 |
| w/C3199A | PostScript | Ps2 | All Models | 9.05-10.10 |
|  | Serial interface | RS232 |  |  |
|  | Parallel i/f | Parallel |  |  |
| J238x $/ 9 x$ A | Network i/f | 802.3 | All Models | 9.05-10.10, w/JetAdmin |

Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3198A $/$ / | DesignJet 755CM inkjet printer, 300 dpi , AO/E-size, HP-GL/2, HP-RTL, PostScript level | $\begin{aligned} & \hline \text { HP-PCL, HP- } \\ & \text { RTL } \end{aligned}$ | All Models | 9.05-10.10 |
|  | PostScript | Ps2 | All Models | 9.05-10.10 |
|  | Serial interface | RS232 |  |  |
|  | Parallel i/f | Parallel |  |  |
|  | Network i/f | 802.3 | All Models | 9.05-10.10, w/JetAdmin |
| HP C3226A ${ }^{\circ}$ | 19CsX-station, color | X-11 | All Models | Starbase 8.07, X-118.07 |
| HP C3230A ${ }^{\circ}$ | Entria base X-Station, color | 802.3 | All Models |  |
| HP C3231A ${ }^{\circ}$ | Entria base X-Station, mono | 802.3 | All Models |  |
| HP C3232A ${ }^{\circ}$ | Entria base X-Station, color, 1280¥1024 | 802.3 | All Models |  |
| HP C3233A ${ }^{\circ}$ | Entria X-Station, mono, 1280¥1024, 14-inch. | 802.3 | All Models |  |
| HP C3234A ${ }^{\circ}$ | Entria base X-Station, color, 1280¥1024 | 802.3 | All Models |  |
| HP C3235A ${ }^{\circ}$ | Entria base X-Station, color | 802.3 | All Models |  |
| HP C3253A | Envizex $p$ base X-Station | 802.3 | All Models |  |
| HP C3540A | DeskJet 1600C, 300 dpi color |  | All Models | 10.01-10.20 |
|  | HP-PCL | PCL-5c | All Models | 10.01-10.20 |
| w/C2865A ${ }^{\circ}$ | PostScript | Ps-2 | All Models | 10.01-10.20 |
|  | Parallel i/f | Parallel | All Models | 10.01-10.20 |
| w/J255xA | JetDirect i/f | MIO | All Models | 10.01-10.20 |
| HP C3540J/N | DeskJet 1600CN, 300 dpi color |  |  | 10.01-10.20 |
|  | HP-PCL | PCL-5c | All Models | 10.01-10.20 |
|  | PostScript | Ps-2 | All Models | 10.01-10.20 |
|  | Parallel i/f | Parallel | All Models | 10.01-10.20 |
|  | JetDirect i/f | MIO | All Models | 10.01-10.20 |
| HP C3541A | DeskJet 1600CM, 300 dpi color |  | Per Interface | 9.05-9.07 $\perp 10.01-10.20$ |
|  | HP-PCL | PCL-5c | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
| w/C2865A ${ }^{\circ}$ | PostScript | Ps-2 | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
|  | Parallel i/f | Parallel | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
|  | JetDirect i/f | MIO | All Models | 9.05-9.07 $\perp 10.01-10.20$ |
| $\begin{aligned} & \text { HP C3791A } \\ & \text { HP C3792A } \end{aligned}$ | DesignJet 650C/PS ('91: 24-in.) ('92: 36-in.) |  | All Models | SharedPrint |
|  | HP-RTL personality | RTL | All Models |  |
|  | PostScript pers. | PS-2 | All Models |  |
|  | Serial interface | RS232 | All Models |  |
|  | Parallel i/f | Parallel | All Models |  |
|  | Network i/f | 802.3 | All Models |  |
| HP C3804A | PhotoSmart printer | $\begin{array}{\|l\|} \hline \text { IEEE-1284, } \\ \text { I-PCL } \end{array}$ | Unsupported | No driver. |
| HP C3980A | LaserJet 6P | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C3982A | LaserJet 6MP | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |
|  | PostScript Level 2 | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{108}$ |
| HP C3989A | LaserJet Companion se, scanner | IEEE-1284 | Unsupported | No drivers |
| HP C4076A HP C4077A HP C4176A | LaserJet 5si Mopier, 600 dpi, 24ppm, A/B, PostScript, 802.3 | PCL | Per interface | 9.05-10.20 |
|  | PostScript Level 2 | SIMM | All Models | 9.05-10.20 |
|  | IEEE-1284 interface | parallel | Unsupported |  |
|  | JetDirect network interface | std. | All Models | 9.05-10.20 w/JetAdmin |
| $\begin{aligned} & \hline \text { HP C4085A } \\ & \text { HP C4086A } \\ & \text { HP C4086A } \end{aligned}$ | LaserJet 8000, 8000N, 8000DN, 1200 dpi, 24ppm |  |  |  |
|  | Parallel Interface | IEEE-1284 | Unsupported | Unsup. |
|  | Network Interface | 802.3 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
|  | HP Printer Command Language | PCL-5, -6 |  |  |
|  | PostScript emulation | Level 2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
| HP C4106A | LaserJet Companion xi, scanner | IEEE-1284 | Unsupported | No drivers |
| HP C4212A | LaserJet 6Pse | PCL-6 | All Models (as PCL 5) | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
| HP C4213A | LaserJet 6Pxi |  |  |  |
| w/HP C3987A | PostScript Level 2 SIMM | Ps2 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
|  | Parallel interface | IEEE-1284 | Unsupported |  |
| w/J259xA | JetDirect-EX print server | 802.3/.5 | All Models | 9.05-10.20, w/ JetAdmin ${ }^{112}$ |
| HP C4641A | OfficeJet 500 | IEEE-1284 | Unsupported | No drivers |
| HP C4642A | OfficeJet 520 | IEEE-1284 | Unsupported | No drivers |
| HP C4643A | OfficeJet 570 | IEEE-1284 | Unsupported | No drivers |
| HP C4645A | OfficeJet 590 | IEEE-1284 | Unsupported | No drivers |
| HP C4699A ${ }^{\circ}$ <br> HP C4700A <br> HP C4701A ${ }^{\circ}$ <br> HP C4702A ${ }^{\circ}$ | DesignJet 350C, 24-inch DesignJet 350C, 36-inch DesignJet 330C, 24-inch DesignJet 330C, 36-inch |  |  |  |
|  | HP-GL/2 personality | HP-GL/2 | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
|  | HP-RTL personality | HP-RTL | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
|  | Serial interface | RS232 | All Models | TBD |
|  | Parallel i/f | Parallel | All Models | TBD |
| w/J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |

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| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP C4703A | DesignJet 2000CP |  | All Models |  |
|  | HP-GL/2 personality | HP-GL/2 | All Models | 9.05-9.07 $\perp 10.01-10.20, \mathrm{w} / \mathrm{JetAdmin}$ |
|  | HP-RTL personality | HP-RTL | All Models | 9.05-9.07 $\perp 10.01-10.20, \mathrm{w} / \mathrm{JetAdmin}$ |
|  | Parallel i/f | Parallel | TBD | TBD |
| w/J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
| HP C4704A | DesignJet 2500CP |  | All Models, per interface |  |
|  | PostScript Level 2 personality | PS2 | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
|  | HP-GL/2 personality | HP-GL/2 | All Models | 9.05-9.07 $\perp 10.01-10.20, \mathrm{w} / \mathrm{JetAdmin}$ |
|  | HP-RTL personality | HP-RTL | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
|  | Parallel i/f | Parallel | TBD | TBD |
| w/J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | 9.05-9.07 $\perp$ 10.01-10.20, w/JetAdmin |
| HP C4705A ${ }^{\circ}$ B <br> HP C4706A%B <br> HP C4708A우 <br> HP C4709A/B | DesignJet 700C, 24-inch DesignJet 700C, 36-inch DesignJet 750C Plus, 24-inch DesignJet 750C Plus, 36-inch |  |  |  |
| w/C4707A | PostScript Level 2 personality | PS Ivl 2 | All Models | 9.05-10.10, w/JetAdmin |
|  | HP-GL/2 personality | HP-GL/2 | All Models | 9.05-10.10, w/JetAdmin |
|  | HP-RTL personality | HP-RTL | All Models | 9.05-10.10, w/JetAdmin |
|  | Serial interface | RS232 | All Models |  |
|  | Parallel i/f | Parallel | All Models |  |
| w/J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | 9.05-10.10, w/JetAdmin |
| HP C4713A <br> HP C4714A <br> HP C4715A <br> HP C4716A | DesignJet 430 Monochrome, 24-inch DesignJet 430 Monochrome, 36 -inch DesignJet 450C Color, 24-inch DesignJet 450C Color, 36-inch |  | Supported w/JetDirect Ex adaptor |  |
|  | HP-RTL personality | HP-RTL | All Models | 9.05-10.10, w/JetAdmin |
|  | Serial interface | RS232 | All Models |  |
|  | Parallel i/f | Parallel | All Models |  |
| J238x $/ 239 \mathrm{x}$ | JetDirect Ex Network adaptor | 802.3/5 | All Models | 9.05-10.10, w/JetAdmin |
| HP C4723A | DesignJet 3000CP |  | Supported w/JetDirect Ex adaptor |  |
|  | HP-RTL personality | HP-RTL |  |  |
|  | HP-GL/2 personality | HP-GL/2 |  |  |
|  | Parallel i/f | IEEE-1284 | Unsupported |  |
| HP C4724A | DesignJet 3500CP |  |  |  |
|  | PostScript personality | Level 3 | All Models |  |
|  | HP-RTL personality | HP-RTL |  |  |
|  | HP-GL/2 personality | HP-GL/2 |  |  |
|  | Network Interface | 10BaseT | All Models |  |
|  | Parallel i/f | IEEE-1284 | Unsupported |  |
| HP C5100A | PhotoSmart scanner | nsSCSI | Unsupported | No driver |
| HP C5116A | ScanJet 5Pse scanner for PC | nsSCSI | All Models ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |
| HP C5117A | ScanJet 5P scanner for PC | nsSCSI | All Models ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |
| HP C5119A | ScanJet 5P scanner for Mac | nsSCSI | All Models ${ }^{114}$ | $9.07 \perp 10.01-11.0^{114}$ |

Graphics Device Support

| Vendor \& Product <br> Number | Abbreviated Product Description | Type | Hardware Qualification and <br> Support | Software Subsystem Support |
| :--- | :--- | :--- | :--- | :--- |
| HP C5160A |  |  |  |  |

Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP 33449A ${ }^{\circ}$ | LaserJet-III, 8 ppm single | PCL-5 | All Models | cadplt2 8.05, pcltrans 8.05, screenpr 8.05, SharedPrint 8.05 |
| HP 33459A ${ }^{\circ}$ | LaserJet-IIID, 8 ppm double | PCL-5 | All Models | cadplt2 8.05, pcltrans 8.05, screenpr 8.05, SharedPrint 8.05 |
| HP 334714 ${ }^{\circ}$ | LaserJet-IIP, 4 ppm single | PCL-4 | All Models | cadplt2 8.05, pcltrans 8.05, screenpr 8.05, SharedPrint 8.05 |
| HP 33481A ${ }^{\circ}$ | LaserJet-IIIP, 4 ppm single | PCL-5 | All Models | cadplt2 9.0, pcltrans 9.0, screenpr 9.0, SharedPrint 9.0 |
| HP 33491A ${ }^{\circ}$ | LaserJet-IIIsi, 17 ppm |  |  |  |
|  | HP Printer Command Language | PCL-5 | All Models | cadplt2 8.07, pcltrans 8.07, screenpr 8.07, SharedPrint 8.07 |
|  | HP-GL/2 | HP-GL/2 | All Models | cadplt2 8.07, screenpr 8.07 |
| w/33494B | PostScript Level 2 | Ps2 | All Models | SharedPrint 9.0 |
| HP 35723A ${ }^{\circ}$ | 12-inch touch bezel | HP-HIL | 2393/97A terminals only | Untested |
| HP 3630A ${ }^{\circ}$ | PaintJet 180 dpi color graphics printer | PCL | See Text Printers section | pcltrans 8.05, screenpr 8.05, SharedPrint 8.05 |
| HP $41063^{\circ} \mathrm{A} / \mathrm{B}$ | Asian Workstation printer | PCL | All Models | Untested |
| HP $45850^{\circ}$ | HP150 PC, in HP2623A emulation | RS232 | Unsupported | Starbase 8.0 |
| HP 45911 ${ }^{\circ} \mathrm{A} / \mathrm{C}$ | 11¥11-in. tablet | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46060A ${ }^{\circ}$ | Mouse, 2 button | HP-HIL | Unsupported | PHIGS 2.11, Starbase 8.05 |
| HP 46060B ${ }^{\circ 0}$ | Mouse, 3 button | HP-HIL | All HP-HIL Models | PHIGS 2.11, Starbase 8.05, X. 118.05 |
| HP 46083A ${ }^{\circ}$ | 1-Knob dial set | HP-HIL | Unsupported | PHIGS 2.11, Starbase 8.05 |
| HP 46085A ${ }^{\circ}$ | 9-Knob dial set | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46086A ${ }^{\circ}$ | 32-button pad | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP $46087^{\circ} \mathrm{A} / \mathrm{B}$ | Digitizer, A-size | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46087C ${ }^{\circ}$ | Digitizer, A/A4-size, stylus | HP-HIL | All full HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP $46088^{\circ} \mathrm{A} / \mathrm{B}$ | Digitizer, B-size | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46088C ${ }^{\circ}$ | Digitizer, B/A3-size, stylus | HP-HIL | All full HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 460900 ${ }^{\circ}$ | Digitizer, A-size | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46091C ${ }^{\circ}$ | Digitizer, B-size | HP-HIL | All full HP-HIL Models | PHIGS 2.11, Starbase 8.05 |
| HP 46094A ${ }^{\circ}$ | Honeywell Quadrature adaptor | HP-HIL | Unsupported | \{per device\} |
| HP 46095A ${ }^{\circ}$ | 3-button mouse | Quad. | Unsupported | Starbase 8.05 |
| HP 7060A ${ }^{\circ}$ | SketchPro 11¥11-in. tablet | RS232 | Unsupported | No driver |
| HP 7090A ${ }^{\circ}$ | Graphics Measurement Plotter | HP-IB | Unsupported | Unsup. |
| HP 7440A ${ }^{\circ}$ | ColorPro 8-pen A-size plotter | HP-GL | Per interface | Starbase 8.05 |
| Option 001 | Serial interface | RS232 | All Models |  |
| Option 002 | IEEE-488 interface | HP-IB | Unsupported |  |
| HP 7440B ${ }^{\circ}$ | ColorPro, HP-GL | HP-IB | Unsupported |  |
| HP 7475A ${ }^{\circ}$ | B-size, 6-pen plotter | HP-GL | Per interface | Starbase 8.05 |
| Option 001 | Serial interface | RS232 | All Models |  |
| Option 002 | IEEE-488 interface | HP-IB | Unsupported |  |
| HP 7475B ${ }^{\circ}$ | Plotter, bus only, HP-GL | HP-IB | Unsupported |  |
| HP 7550A ${ }^{\circ}$ | B-size, 8-pen plotter | HP-GL | Per interface | Starbase 8.05 |
|  | Serial interface | RS232 | Unsupported |  |
|  | IEEE-488 interface | HP-IB | Unsupported |  |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP 7550B ${ }^{\circ}$ | B-size, 8-pen plotter | HP-GL/2 | Per interface | Starbase 8.05 |
| Option 005 | Eavesdrop serial interface | RS232 | All Models |  |
| Option 005 | IEEE-488 interface | HP-IB | Unsupported |  |
| Option 006 | Single serial interface | RS232 | All Models |  |
| Option 006 | Parallel interface | Parallel | Unsupported |  |
| HP 7570A ${ }^{\circ}$ | DraftPro C/D-size, 8-pen plotter, HP-GL | RS232 | All Models | Starbase 8.05 |
| HP 7575A ${ }^{\circ}$ | DraftPro DXL A...D-size, 8-pen plotter, HPGL | RS232 | All Models | Starbase 8.05 |
| HP 7576A ${ }^{\circ}$ | DraftPro EXL A...E-size, 8-pen plotter, HPGL | RS232 | All Models | Starbase 8.05 |
| w/17570A | IEEE-488 interface | HP-IB | Unsupported |  |
| HP 7580A ${ }^{\circ} / \mathrm{B}^{\circ}$ | D-size, 8-pen plotter, HP-GL | Any | Unsupported | Untested |
| HP $7585{ }^{\circ}$ | E-size, 8-pen plotter, HP-GL | Any | Unsupported | Untested |
| HP 7586B ${ }^{\circ}$ | E-size, 8-pen, roll-feed, HP-GL | Any | Unsupported | Untested |
| HP 7595A ${ }^{\circ}$ | DraftMaster E-size, 8-pen plotter | HP-GL | Unsupported | Untested |
| HP 7596A ${ }^{\circ}$ | DraftMaster E-size, 8-pen, roll-feed | HP-GL | Unsupported | Untested |
| HP 7595 ${ }^{\circ} / \mathrm{C}$ | DraftMaster SX E-size, 8-pen plotter | HP-GL/2 | Per interface | Starbase 8.05, SharedPrint |
| HP 7596 ${ }^{\circ} / \mathrm{C}$ | DraftMaster RX E-size, 8-pen, roll-feed | HP-GL/2 | Per interface | Starbase 8.05, SharedPrint |
| HP $7599{ }^{\circ} \mathrm{A} / \mathrm{B}$ | DraftMaster MX E-size, 8-pen, roll-feed, spooled | HP-GL/2 | Per interface | Starbase 8.05, SharedPrint |
|  | Serial interface | RS232 | All Models |  |
|  | IEEE-488 interface | HP-IB | Unsupported |  |
| HP 9190A ${ }^{\circ}$ | ScanJet, SCL | Custom parallel | Never supported. May not function on some Models | No software |
| HP 9195A ${ }^{\circ}$ | ScanJet Plus, SCL | Custom parallel | Unsupported. May not function on Models other than 720, 730 and 750. | No software |
| HP 9666A ${ }^{\circ}$ | Ruggedized 2397A | RS232 | Unsupported | Untested |
| HP 98705A ${ }^{\circ}$ | s400 PVRX P2 processor | LGB | Unsupported | No function |
| HP 98705B ${ }^{\circ 0}$ | s400 PVRX P3 processor | LGB | Unsupported | No function |
| HP 98705C ${ }^{0107}$ | s400 PVRX Pl processor | LGB | Unsupported | No function |
| HP 98705P ${ }^{\text {0107 }}$ | s700 PVRX P3 processor | LGB | Models 720, 730, 750 | PHIGS 2.1 Starbase 8.05 X-118.05 |
| HP 98720A ${ }^{\circ}$ | SRX Processor | LGB | No SGC or GSC interface for this product. | NA |
| HP 98730A ${ }^{\circ}$ | TurboSRX Processor | LGB | No SGC or GSC interface for this product. | NA |
| HP 98735A ${ }^{\circ 0}$ | s400 Turbo VRX T1 Processor | G-Bus | Must upgrade to 98757A | No |
| HP 98736A ${ }^{\circ}$ | s400 Turbo VRX T2 Processor | G-Bus | Must upgrade to 98757A | No |
| HP 98736B ${ }^{\circ 0}$ | s400 Turbo VRX T3 Processor | G-Bus | Must upgrade to 98757A | No |
| HP 98757A ${ }^{\circ}$ | Upgrade from Series 400 TurboVRX | SGC | Models 720, 730, 750 | PHIGS 2.1 Starbase 8.05 X-118.05 |
| Option 001 | 400/T1 to 700/T2 | SGC | Models 720, 730, 750 | PHIGS 2.1 Starbase $8.05 \mathrm{X}-118.05$ |
| Option 002 | 400/T2 to 700/T2 | SGC | Models 720, 730, 750 | PHIGS 2.1 Starbase 8.05 X-118.05 |
| Option 003 | 400/T3 to 700/T4 | SGC | Models 720, 730, 750 | PHIGS 2.1 Starbase 8.05 X-118.05 |
| HP 98765A ${ }^{\text {¹07 }}$ | Turbo VRX T2 Processor | SGC | Models 720, 730, 747i, 750 | PHIGS 2.11 Starbase 8.05 X-118.05 |

## Graphics Device Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Hardware Qualification and Support | Software Subsystem Support |
| :---: | :---: | :---: | :---: | :---: |
| HP 98766A ${ }^{\text {0107 }}$ | Turbo VRX T4 Processor | SGC | Models 720, 730, 747i, 750 | PHIGS 2.11 Starbase 8.05 X-11 8.05 |
| HP 98767A ${ }^{\circ}$ | TurboVRX T2ÍT4 upgrade | TVRX | Models 720, 730, 747i, 750 | PHIGS 2.11 Starbase 8.05 X-118.05 |
| HP 98768A | 700 CRX upgrade | SGC | Models 720, 730, 747i, 750 | PHIGS 2.11 Starbase 8.05 X-118.05 |
| HP-Apollo A-LPFK ${ }^{\circ}$ | 32-button pad | RS232 | Unsupported | No software |
| HP-Apollo CGP ${ }^{\text {oo }}$ | CP300 (Tek 4693DX) | Parallel ${ }^{111}$ | No supported i/f | No software |
| HP-Apollo HCDMMP ${ }^{\circ}$ | (Genicom) impact printer | RS232 | Unsupported | No software |
| HP-Apollo K1388 ${ }^{\circ 0}$ | 8 knob Dial Set | RS232 | Unsupported | No software |
| HP-Apollo K1410 ${ }^{\circ}$ | Mouse, 3-button | Quad. ${ }^{113}$ | All full HP-HIL Models | Starbase 8.05 |
| HP-Apollo K1422 ${ }^{\circ}$ | SpaceBall XYZ, 8-button | RS232 | \{see HP A4360A\} | \{see HP A4360A\} |
| HP-Apollo K1424 ${ }^{\circ}$ | Summagraphics Bit Pad Two | RS232 | Unsupported | No software |
| HP-Apollo K1432 ${ }^{\circ 0}$ | Summagraphics B-tablet | RS232 | Unsupported | No software |
| HP-Apollo K1434 ${ }^{\circ}$ | Marconi RB2 3-Button Trackball | Quad. ${ }^{113}$ | Unsupported | Untested |
| HP-Apollo K1435 ${ }^{\circ}$ | Itac 3-Button Trackball | Quad. ${ }^{113}$ | Unsupported | Untested |
|  | Shinko printers |  |  |  |
| HP-Apollo K1603 ${ }^{\circ}$ | Shinko CHC-335, 200 dpi color | Parallel | Unsupported | No software |
| HP-Apollo K1604 ${ }^{\circ}$ | Shinko CHC-336, 200 dpi color, HP-GL, CGI/CGM | Parallel | Unsupported | No software |
| HP-Apollo K1605 ${ }^{\circ}$ | Shinko CHC-345, 300 dpi color | Parallel | Unsupported | No software |
| HP-Apollo K1606 ${ }^{\circ}$ | Shinko CHC-645B, 300 dpi color | Parallel | Unsupported | No software |
| HP-Apollo LP26 ${ }^{\circ}$ | LP/26 PostScript printer | Any | Unsupported | Untested |
| HP-Apollo LP80010 ${ }^{\circ}$ | LP 800, PostScript printer | Any | Unsupported | Untested |
| HP-Apollo SPTL$2003^{\circ}$ | SpaceBall XYZ, 8-button | RS232 | \{see HP A4360A\} | \{see HP A4360A\} |

## Graphics Device Notes:

107. This product number is for reference purposes only. The device is not separately sold.
108. Must be last device on a single-ended SCSI bus. Not recommended for use on same bus as "/root" disc.
109. Scanners with serial number prefix lower than 3226 require a firmware upgrade.
110. ScanJet support requires A2226A ${ }^{\circ}$, A2229BA or HP MPower on 9.x releases. Support after 10.20 is provided via third parties, such as those listed in footnote 114.
111. The CP-300 (aka 4693DX) is incompatible with the built-in parallel interface. The former "KIT-CENT-CP" ISA card is not supported.
112. Optimal printer/feature support is provided only via JetAdmin software (JetAdmin) and JetDirect network connection.
113. Requires HP 46094A quadrature adaptor. May function correctly only on full HP-HIL host SPUs.
114. HP-UX support for this device is available from:

Mentalix (Pixel!FX)
1700 Alma Drive, Suite 110
Plano, TX 75075
800 636-8259, 214 423-1145
http://www.pfx.com
Vividata, Inc. (ScanShop)
1250 Addison Street, Suite 213A
Berkeley, CA 94702
510 841-6400
http://www.vividata.com/

## Networking Devices

This section lists all external local area network (LAN) and wide area network (WAN) devices. Plug-in and internal network link and adaptor cards care covered in the Interfaces section of this document.

Apollo Token Ring is no longer supported after release 9.07.

In general, the "HP-UX Support" column indicates whether or not HP-UX can transparently connect to or through the device. For devices described as "Managed", HP OpenView NodeManager software (J2317A) is required to directly discover, configure and monitor the device.

The "Min. Boot ROM" column indicates the minimum revision of Boot code required to boot an operating system, recovery system or diagnostic kernel from or through the device. "Transp." means that the device is transparent to software.

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | Apollo Token Ring |  |  |  |  |
| HP A2544A ${ }^{\circ}$ | ATR/9000 Link | EISA |  | See Interfaces section | 8.05-9.07 $\overline{7}$ |
| HP A2545A ${ }^{\circ}$ | ATR/9000 Link \& EISA slot | EISA |  | See Interfaces section | 8.05-9.07 $\bar{\nabla}$ |
| HP A2654A | FDDI Single, Daughter i/f | 755 |  | See Interfaces section |  |
| HP A2658A | 802.3 AUI Daughter | 735 |  | See Interfaces section |  |
| HP A2665A | FDDI Daughter i/f | 735 |  | See Interfaces section |  |
| HP A2670A | 10Base2 ThinLAN transceiver | AUI | Any | All Models w/AUI ${ }^{115}$ | 8.05-11.0 |
| HP A2671A | 10BaseT EtherTwist transceiver | AUI | Any | All Models w/AUII ${ }^{115}$ | 8.05-11.0 |
| HP A2991-60013 | Line I/O, Japan | CHAMP14RI2 | Any | All Models w/ Access Port | -10.20 |
| HP A2991-60016 | Line I/O, North America | CHAMP14RJ12 | Any | All Models w/ Access Port | -10.20 |
| HP A3495AA | 100BaseT Interface | HP-PB |  | See Interfaces section |  |
| HP A3502A | Model 266 Fibre Channel Switch | FC-PH 4.3 | N/A | EPS20, Model K420 | 10.01-10.20 |
| HP A3658A | 100BaseT interface | EISA |  | See Interfaces section |  |
| HP A3659A | FDDI interface | EISA |  | See Interfaces section |  |
| HP A3724A | FC-AL (Fibre Channel Arbitrated Loop) 10 port hub, 1063 Mbps | FC-AL | No | EPS, K-Class | 10.20 |
| HP A4011A | 802.5 Token Ring interface | GIO |  | See Interfaces section |  |
| HP A4011B | 802.5 Token Ring interface | GIO |  | See Interfaces section |  |
| $\begin{aligned} & \text { HP A4012A, } \\ & \text { HP A4012AJ } \end{aligned}$ | TeleShare POTS i/f, analog RJIIC | GIO |  | See Interfaces section |  |
| HP A4014A | Second LAN plus 2nd serial | GIO |  | See Interfaces section |  |
| HP A4015A | X. 25 Link | GIO |  | See Interfaces section |  |
| HP A4031A ${ }^{\circ}$ | Fibre Channel/9000 interface | EISA |  | See Interfaces section |  |
| HP A4217A | Dual head/dual LAN | GIO+TSIO |  | See Interfaces section |  |
| HP A4308A | 100BaseT interface | EISA |  | See Interfaces section |  |
| HP A4839A | Fibre Channel 10 port hub, 1063 Mbps | $\begin{aligned} & \text { FC-SW \& - } \\ & \text { LW } \end{aligned}$ | No | EPS, K-Class | 10.20 |
| HP A4891A | HyperFabric $160 \mathrm{MB} / \mathrm{sec}$ switch | Myrinet |  |  |  |
| HP B5502AA | FDDI interface | EISA |  | See Interfaces section |  |
| HP C2059T ${ }^{\circ}$ | JetDirect 10BaseT/AUI TCP/IP | MIO, 802.3 | NOP | See Text Printers section |  |
| HP C20715 ${ }^{\circ}$ | JetDirect 10BaseT TCP/IP | XIO, 802.3 | NOP | See Text Printers section |  |
| HP C2071T ${ }^{\circ}$ | JetDirect 10Base2 TCP/IP | XIO, 802.3 | NOP | See Text Printers section |  |

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { HP C2970A } \\ & \text { HP C2971A } \end{aligned}$ | PrinterPal | RS232 | Unsup. | Unsupported | Unsup. |
| HP CODX-3350 | Codex modems | RS232 | Unsup. | Unsupported | Unsup. |
| HP CODX-3380A/B | Codex modems | RS232 | Unsup. | Unsupported | Unsup. |
| HP CODX-35009 | Codex DSU/CSU | RS232 | Unsup. | Unsupported | Unsup. |
| HP E2050A | LAN to HP-IB instrument controller, 10BaseT RJ45 \& 10Base2 BNC | 802.3 | NOP | All Models | $\begin{aligned} & \mid \text { SICL }^{116} 9.0- \\ & 9.07 \perp 10.01 \perp 10.20 \end{aligned}$ |
| HP J2060 ${ }^{\circ} \mathrm{A} / \mathrm{AZ}$ | DTC-16TN LAN Terminal Server | 802.3 | NOP | Unsupported | 10.01-11.0 |
| HP J2062A/AZ | DTC-16iX LAN Terminal Server | 802.3 | NOP | Unsupported | Unsup. ${ }^{118}$ |
| HP J2063A/AZ | DTC-16MX LAN RS-232 Server | 802.3 | NOP | Unsupported | 10.01-11.0 |
| HP J2064A/AZ | DTC-16RX LAN Routable RS-232 Server | 802.3 | NOP | All Models, w/J2496A software | 9.03-9.07 $\perp$ 10.01-10.20 |
| HP J2069A ${ }^{\circ}$ | HIPPI (High Perf. Parallel) Link | SGC | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2070A/AZ | DTC-72MX LAN Async. Server | 802.3 | NOP | Unsupported | 10.01-11.0 |
| HP J $2104 \mathrm{~A}^{\circ}$ | ISDN Basic Rate Interface | ISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2109A ${ }^{\circ}$ | ISDN BRI (USA) | ISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2156A ${ }^{\circ}$ | FDDI-single MIC interface | EISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2159A | X. 25 interface | EISA |  | See Interfaces section | $\Leftarrow$ |
| HP J2165A | IEEE 802.5 token ring i/f | EISA |  | See Interfaces section | $\Leftarrow$ |
| HP J2226A | SNAplus Link (interface) | EISA |  | See Interfaces section | $\Leftarrow$ |
| HP J2340A ${ }^{\circ 0}$ | JetDirect 10BaseT,10Base2 | MIO, 802.3 | NOP | See Text Printers section |  |
| HP J2355A ${ }^{\circ}$ | EtherTwist Hub Plus/24 | 802.3 | Any | All Models | 8.05-11.0 |
| HP J2371A ${ }^{\circ}$ | JetDirect 10BaseT | MIO, 802.3 | NOP | See Text Printers section |  |
| HP J2372A ${ }^{\circ}$ | JetDirect 10BaseT, 10Base2 | MIO, 802.3 | NOP | See Text Printers section |  |
| HP J2373A ${ }^{\circ}$ | JetDirect Token Ring | MIO, 802.5 | NOP | See Text Printers section |  |
| $\begin{aligned} & \hline \text { HP J2382A }{ }^{\circ} \\ & \text { HP J2383A } \end{aligned}$ | Novell-only JetDirect EX | Parallel, 802.3 | NOP | Unsupported | Unsup. |
| HP J2382B ${ }^{\circ}$ | JetDirect EX adaptor, Ethernet | Parallel, <br> 802.3 | NOP | See Text Printers section |  |
| HP J23838 ${ }^{\circ}$ | JetDirect EX adaptor, Token Ring | Parallel, 802.5 | NOP | See Text Printers section |  |
| HP J2410A ${ }^{\circ}$ | AdvanceStack 100VG Hub-15 | 802.12 | NOP | All Models w/100VG LAN | 9.0-10.20 |
| HP J $2413 A^{\circ}$ | AdvanceStack 100VG Hub-7M | 802.12 | NOP | All Models w/100VG LAN | 9.0-10.20 |
| HP J2415A | AdvanceStack 100VG Hub-14 | 802.12 | NOP | All Models w/100VG LAN | 9.0-10.20 |
| HP J2418A ${ }^{\circ}$ | HP EtherTwist LAN switch, 1 AUI, 1 BNC. 4 UTP | 802.3 | NOP | All Models | Transp. |
| HP J2430A ${ }^{\circ}$ | AdvanceStack Router 650, managed | Various | NOP | All Models w/selected network types | 9.0-11.0 |
| HP J2458A | ISDN BRI (Integrated Services Digital Network, Basic Rate interface) | nsSCSI | NOP | EPS, K-Class. Use J2460A for other workstations. | 10.01-10.20 w/J2455A |
| HP J2460A | ISDN BRI Link | nsSCSI | NOP | All nsSCSI Models | $\begin{aligned} & \text { 9.03-9.07 } \perp \text { 10.01- } \\ & 10.20 \nabla \end{aligned}$ |
| HP J2496A | DTC 16RX Datacomm Terminal Controller (routable 16MX) | 802.3 | NOP | All Models | 9.05-9.07 $\perp 10.01-11.0$ |
| HP J2498A | ATM adaptor, OC3/155 | EISA |  | See Interfaces section |  |

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP J2540A $/$ B $^{\circ}$ | AdvanceStack Router 230, managed | 802.3 | NOP | All Models | 9.0-11.0 |
| HP J2543A ${ }^{\circ}$ | AdvanceStack Router 245, 1 Token Ring, 1 WAN | 802.5 | NOP | All Models w/802.5 NIC | Transp. |
| HP J2550A ${ }^{\circ}$ | JetDirect 10BaseT | MIO, 802.3 | NOP | See Text Printers section |  |
| HP J2552A ${ }^{\circ}$ | JetDirect 10BaseT, 10Base2 | MIO, 802.3 | NOP | See Text Printers section |  |
| HP J2555A ${ }^{\circ}$ | JetDirect Token Ring | MIO, 802.5 | NOP | See Text Printers section |  |
| HP J2591A | JetDirect EX Plus | 802.3, Par. | NOP | See Text Printers section |  |
| HP J2593A | JetDirect EX+3 adaptor, 802.3 (BNC, RJ45) \& 3 parallel | 802.3, <br> Parallel | NOP | See Text Printers section |  |
| HP J2594A | JetDirect EX+3 adaptor, 802.5 (DB9, RJ45) \& 3 parallel | 802.5, Parallel | NOP | See Text Printers section |  |
| HP J2600A | AdvanceStack 10BaseT Hub-12 | 802.3 | Any | All Models w/10BaseT | Transp. |
| w/J2603B | SNMP management | SNMP | NA | All Models | 9.0-10.20 |
| HP J2601A $/ \mathrm{B}^{\circ}$ | AdvanceStack 10BaseT Hub-24 | 802.3 | Any | All Models | Transp. |
| w/J2603B | SNMP management | SNMP | NA | All Models | 9.0-10.20 |
| HP J2602A ${ }^{\circ}$ | AdvanceStack 10BaseT Hub-48 | 802.3 | Any | All Models | Transp. |
| w/J2603B | SNMP management | SNMP | NA | All Models | 9.0-10.20 |
| HP J2610A $/$ / | AdvanceStack 10BaseT Hub-8U | 802.3 | Any | All Models | Transp. |
| w/J2612A | SNMP management | SNMP | NA | All Models | 9.0-10.20 |
| HP J26113 ${ }^{\circ}$ | AdvanceStack Hub-16U | 802.3 | Any | All Models | 9.0-10.20 |
| HP J2628A | Router 210, 12 10BaseT, 1 WAN, managed | 802.3 | Unsup. ${ }^{120}$ | All Models w/10BaseT | 9.0-10.20 |
| HP J2630A | AdvanceStack 10BaseT Hub-12, managed | 802.3 | Any | All Models w/10BaseT | 9.0-10.20 |
| HP J2631A $/$ B | AdvanceStack 10BaseT Hub-24, managed | 802.3 | Any | All Models w/10BaseT | 9.0-10.20 |
| HP J 2632 A $^{\circ}$ / ${ }^{\text {a }}$ | AdvanceStack 10BaseT Hub-48, managed | 802.3 | Any | All Models w/10BaseT | 9.0-10.20 |
| HP J2645AA | 10/100VG LAN Link | EISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2794A | X.25, high performance | EISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2802A $/$ / | ATM adaptor, OC3/155 Mbps | EISA | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2803A $/$ B | ATM adaptor, OC3/155 | HSC | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J2980A | AdvanceStack 10/100 LAN Switch-16 | $\begin{array}{\|l} \hline 802.3, \\ 802.12 \\ \hline \end{array}$ | Any | All Models | 9.0-10.20 |
| $\begin{array}{\|l\|} \hline \text { HP J3100A } / \text { B } \\ \text { HP J3101A } \end{array}$ | AdvanceStack Switch 2000 | Various | Any | All Models | 9.0-10.20 |
| HP J3110A | JetDirect 600N, 10BaseT RJ45 | EIO | $\Rightarrow$ | See Text Printers section | $\Leftarrow$ |
| HP J3111A | JetDirect 600N, 10BaseT RJ45, 10Base2 BNC | EIO | $\Rightarrow$ | See Text Printers section | $\Leftarrow$ |
| HP J3112A | JetDirect 600N, Token Ring 802.5 RJ45 and DB9 | EIO | $\Rightarrow$ | See Text Printers section | $\Leftarrow$ |
| HP J3113A | JetDirect 600N, 10BaseT and 100BaseTX RJ45 | EIO | $\Rightarrow$ | See Text Printers section | $\Leftarrow$ |
| HP J3125A | AdvanceStack Switch 200 | 802.12 | Any | All Models w/100VG LAN | 9.0-10.20 |
| HP J3126A ${ }^{\circ}$ | AdvanceStack Switch 100 | 802.12 | Any | All Models w/100VG LAN | 9.0-10.20 |
| HP J3127A | AdvanceStack 10BaseT Hub-8E | 802.3 | Any | All Models | 9.03-11.0 |

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP J3137A ${ }^{\circ}$ | AdvanceStack 100VG Hub-7E | 802.12 | Any | All Models w/100VG LAN | 9.0-10.20 |
| HP J3175A | AdvanceStack Switch 208T | 802.3 u |  | All Models w/100bT LAN | 9.0-10.20 |
| HP J3177A | AdvanceStack Switch 224T | 802.3u |  | All Models w/100bT LAN | 9.0-10.20 |
| HP J3188A | Hub 16M, 10BaseT | 802.3 |  |  | Requires Cisco software |
| HP J3200A | AdvanceStack Switching Hub-12R, 10BaseT | 802.3 |  | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| HP J3202A | AdvanceStack Switching Hub-24R, 10BaseT | 802.3 |  | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| HP J3204A | AdvanceStack Switching Hub-24T, 10BaseT | 802.3 |  | All Models | 9.03-9.07 $\perp 10.01-11.0$ |
| HP J3233A $/$ / ${ }^{\text {a }}$ | AdvanceStack 100BaseT Hub-12TXM | 802.3u |  | All Models w/100bT LAN | 9.0-10.20 |
| HP J3234A $/$ / | AdvanceStack 100BaseT Hub-12TX | 802.3u |  | All Models w/100bT LAN | 9.0-10.20 |
| HP J3235A | AdvanceStack 100BaseT Hub-8TXE | 802.3u |  | All Models w/100bT LAN | 9.0-11.0 |
| HP J3245A | AdvanceStack Switch 800T |  |  |  |  |
| HP J3263A | JetDirect300X, 10BaseT and 100BaseTX, one RJ45, one parallel | $\begin{aligned} & 802.3, \\ & 802.3 u \end{aligned}$ | NOP | See Text Printers section |  |
| HP J3272A | AdvanceStack 100BaseT Hub 24TX, 24 RJ45, one RJ45 cascade. | 802.3u |  | All Models w/100bT LAN | 9.0-11.0 |
| HP J3298A | ProCurve Switch 212M | 802.3 |  |  |  |
| HP J3299A | ProCurve Switch 222M | 802.3 |  |  |  |
| HP J3300A | AdvanceStack 10BaseT Hubl2, 12 RJ45, MDI switch, transceiver slot. | 802.3 | Any | All Models | 9.07-11.0 |
| HP J3301A | AdvanceStack 10BaseT Hub12M, managed | 802.3 | Any | All Models | 9.07-11.0 |
| HP J3302A | AdvanceStack 10BaseT Hub24, 24 RJ45, MDI switch, transceiver slot. | 802.3 | Any | All Models | 9.07-11.0 |
| HP J3303A | AdvanceStack 10BaseT Hub24M, managed | 802.3 | Any | All Models | 9.07-11.0 |
| HP J3420A | ATM adaptor | GSC-M | $\Rightarrow$ | See Interfaces section | $\Leftarrow$ |
| HP J3457A | Quad Ethernet LanProbe | 802.3 | NOP | All Models | w/NetMetrix Software |
| HP J4110A | ProCurve Switch 8000M | 802.3u | Any | All Models | 9.05-9.07 $\perp 10.01-11.0$ |
| HP J4120A | ProCurve Switch 1600M, $16 \times 10 / 100$ | 802.3 u | Any | All Models | $9.05-9.07 \perp 10.01-11.0$ |
| HP J4121A | ProCurve Switch 4000M | 802.3u | Any | All Models | $9.05-9.07 \perp 10.01-11.0$ |
| HP J4122A | ProCurve Switch 2400M, $24 \times 10 / 100$ | 802.3u | Any | All Models | 9.05-9.07 $\perp 10.01-11.0$ |
| HP L1025A ${ }^{\circ}$ | QuickBurst cable modem | 802.3 | Note ${ }^{119}$ | All Models w/10BaseT | 9.03-10.20 |
| HP L1100A ${ }^{\circ}$ | OmniShare Conferencer | $\begin{aligned} & \text { RS232, } \\ & \text { POTS } \end{aligned}$ | NOP | Never supported | Unsup. |
| HP 2334A ${ }^{\circ}$ | X. 25 Cluster controller | RS232 | NOP | Unsupported | Unsup. |
| HP $2335 \mathrm{~A}^{\circ}$ | X. 25 Cluster controller | RS232 | NOP | Unsupported | Unsup. |
| HP 2340A ${ }^{\circ}$ | DTC-16 LAN Terminal Server | 802.3 | NOP | Unsupported | 10.01-11.0 |
| HP $2342 A^{\circ}$ | TS-8 terminal controller | 802.3 | NOP | Never supported | $\text { Unsup. }{ }^{121}$ |
| HP $2345 A^{\circ}$ | DTC LAN Terminal Server | 802.3 | NOP | Unsupported | $\text { Unsup. }{ }^{121}$ |
| HP 25567A ${ }^{\circ 0}$ | LAN, IEEE-802 Thin/AUI | EISA |  | See Interfaces section |  |
| HP 25567B ${ }^{\circ}$ | LAN, IEEE-802 Thin/AUI | EISA |  | See Interfaces section |  |

## Networking Devices Support

| Vendor \& Product <br> Number | Abbreviated Product Description <br> Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| HP 2717x |  |  |  |  |

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP 30241A | 10Base5 ThickLAN MAU, 1 AUI/m, 1 Type N tap | AUI | Any | All Models w/AUI ${ }^{115}$ | Transp. |
| HP 37212A ${ }^{\circ 0}$ | 1200 baud HP modem | RS232 | NOP | Unsupported | 8.05-9.03 $\overline{\text { P }}$ |
| HP 372128 ${ }^{\circ}$ | 2400 baud HP modem | RS232 | NOP | Unsupported | 8.05-9.03 $\nabla$ |
| HP 39301A ${ }^{\circ}$ | Optical 8/16-channel repeater | RS232 | Unsup. | Unsupported | Unsup. |
| HP 4985A | LanProbe III Plus/ Token RingMonitor, RJ-45 UTP, DB9 STP, RS-232C (SLIP) | 802.5 | Unsup. | All Models | w/NetMetrix software |
| HP 4986A | LanProbe III Plus/ Ethernet Monitor, RJ45 10BaseT, BNC 10Base2, RS-232C (SLIP) | 802.3 | Unsup. | All Models | w/NetMetrix software |
| HP 4991A ${ }^{\circ}$ | LanProbe Network Monitor | 802.3 | NOP | All Models | 8.03 w/4998A |
| HP 4992A ${ }^{\circ}$ | LanProbe Node Locator | 802.3 | NOP | All Models | 8.03 w/4998A |
| HP 4995 $/ 6 A^{\circ}$ | LanProbe Il Network Monitor | 802.3 | NOP | All Models | 8.03 w/4998A |
| HP 50759A ${ }^{\circ}$ | Remote Support modem | RS232, AT | Unsup. | Unsupported | Unsup. |
| HP 921785 ${ }^{\circ}$ | ABC switch | RS232 | Transp. | Unsupported | Transp. |
| HP 92203A ${ }^{\circ}$ | Codex 2264 V. 32 modem | RS232 | NOP | Unsupported | Unsup. |
| HP 92205 ${ }^{\circ} \mathrm{A} / \mathrm{C}$ | Hayes Smartmodem 1200 | RS232, AT | NOP | Unsupported | 8.05 |
| HP 92205B ${ }^{\text {oo }}$ | Hayes Smartmodem 2400 | RS232, AT | NOP | Unsupported | 8.05 |
| HP-Apollo A-NET-ITR ${ }^{\circ}$ | IBM token ring i/f | ISA |  | See Interfaces section |  |
| HP-Apollo K1095 ${ }^{\circ}$ | "ETH-RPTR-FIBER" AFR-1 Fiber Optic Repeater; 2 SMA, 1 AUI/f | 802.3 | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1096 ${ }^{\circ}$ | "ETH-RPTR-MR2" MR-2000C Multiport Thinnet repeater; 2 BNC | 802.3 | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1097 | "ETH-RPTR-2C" AMR-9C Multiport repeater; 2 AUI/f | 802.3 | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1098 ${ }^{\circ}$ | "ETH-RPTR-9C" AMR-9C Multiport repeater; $8 \mathrm{BNC}, 1 \mathrm{AUI} / \mathrm{F}$ | 802.3 | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1112 ${ }^{\circ}$ | "ETH-XCVR-MP8" AMT-8 Multiport MAU; $8 \mathrm{AUI} / \mathrm{m}, \mathrm{l}$ AUI/m? | 802.3 | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1115 ${ }^{\circ}$ | "ETH-XCVR-TMS3" MAU, 10Base2; 1 AUI/ m, 1 BNC | AUI/m | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1116 ${ }^{\circ}$ | "ETH-XCVR-O3DIAG" MAU, 10Base2; 1 AUI/m, 1 BNC | AUI/m | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1117 ${ }^{\circ}$ | "ETH-XCVR-O2DIAG" MAU, 10Base5; 1 AUI/m, 1 N-type | AUI/m | Transp. | OEM Vendor supported | Unsup. |
| HP-Apollo K1118 ${ }^{\circ}$ | "ETH-XCVR-3C" MAU, 10Base5; 1 AUI/m, 1 N-type | AUI/m | Transp. | OEM Vendor supported | Unsup. |
|  | MultiTech modems |  |  |  |  |
| HP-Apollo K1489 ${ }^{\circ}$ | MT212AH3 1200 bps | RS232, AT | NOP | Unsupported | Unsup. |
| HP-Apollo K1492 ${ }^{\circ}$ | MT224AH 2400 bps | RS232, AT | NOP | Unsupported | Unsup. |
| HP-Apollo K1494 ${ }^{\circ}$ | MT224EH (MNP5) | RS232, AT | NOP | Unsupported | Unsup. |
| HP-Apollo K1498 ${ }^{\circ}$ | MT932EA V. 32 | RS232, AT | NOP | Unsupported | Unsup. |
| HP-Apollo K1769 ${ }^{\circ}$ | "RNS-ATR" Rem. Net. Switch | ATR | Unsup. | Unsupported | Unsup. |
| HP-Apollo TBIT-02500 ${ }^{\circ}$ | Telebit T2500 modem | RS232, AT | NOP | OEM Vendor supported | Vendor |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |

Networking Devices Support

| Vendor \& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Central Data, +1 (217) 359-8010 |  | http://www.cd.com/ |  |  |  |
| <various» | RS-232C multiplexers | nsSCSI | N/A | B-Class, C-Class, J-Class, all 700 Models, K-Class (single-processor only, and with dedicated 28655A card) | 9.03-9.07 $\perp 10.01-10.20$ |
| Interphase, (214) 654-5000 |  | http://www.iphase.com/ |  |  |  |
| 4811 | FDDI interface | EISA | NOP | See Interfaces section |  |
| Telebit, +1.508.441.2181 |  | http://www.telebit.com/ |  |  |  |
| TrailBlazer ${ }^{\circ}$ | Modem | RS232, AT | NOP | Unsupported | 8.05 |
| U.S.Robotics, (800) 342-5877 |  | http://www.usr.com/index.html |  |  |  |
| HST/V. 32 dual std. ${ }^{\circ}$ | Modem | RS232, AT | NOP | Unsupported | 8.05 |
| USR Courier $2400^{\circ}$ | Modem | RS232, AT | NOP | Unsupported | 8.05 |
| USR Courier HST ${ }^{\circ}$ | Modem | RS232, AT | NOP | Unsupported | 8.05 |

## Networking Device Notes:

115. Requires 15 -pin D-sub connector. Systems with 15-pin Micro D-sub connectors, such as Models 743 and 748 require an A4303A adaptor.
116. See Glossary for further information on SICL.
117. LAN servers require access to a Series 800 system or DOS PC for execution of their network management software.
118. DTC LAN terminal servers require access to a an HP 3000 system for execution of their network management software.
119. Although cable modems are transparent 802.3 nodes, booting is not recommended due to performance considerations.
120. Booting and diskless operation through bridges, gateways and routers is not supported, and placing diskless nodes beyond the LAN segment of the server is not recommended.
121. The 2340A and 2345A LAN terminal servers require access to a Series 800 system or DOS PC for execution of their network management software.

## Interfaces

These tables list all card cages, addon slots and interface cards about which supports are likely to arise, as well as selected VME and VXI devices.

## PA-RISC Workstation Slots

The support status of cards for each of the following slots types is described in a separate table for each card type.
ISA cards are listed in the EISA table.

GSC-M and HSC cards are in the GSC table.

Processor-specific "other" cards, including Model 712 GIO and TSIO cards, are in the Processor-Specific table.

All other cards, and devices often confused with card, are in a final Miscellaneous table

## PA-RISC Workstation Available Slots

| SPU Model | EISA | GSC | HP-PB | HSC | PCl | SGC | VME, VXI | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| B132L | $1^{122,123}$ | $2^{122}$ | None | None | $2^{123} \mathrm{PCI}-32,3.3 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| B132L+ | $1^{122,123} \mathrm{Opt}$. | $2^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,5 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| B160L | 122,123 | $2^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,3.3 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| B180L | $1^{122,123}$ Opt. | $2^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,5 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| C100 | $3^{122}$ | $4^{122}$ | None | None | None | None | None | None |
| C 110 | $3^{122}$ | $4^{122}$ | None | None | None | None | None | None |
| C160 | $3^{122,123}$ | $4^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,3.3 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| C160L | $3^{122,123}$ | $4^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,3.3 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| C180-XP | $3^{122,123}$ | $4^{122}$ | None | None | $2^{123} \mathrm{PCl}-32,3.3 \mathrm{~V}, 1 \mathrm{x}$ | None | None | None |
| C200 | $1^{122,123} \mathrm{Opt}$. | $4^{122}$ | None | None | $\begin{aligned} & 2^{123} \mathrm{PCI}-64,3.3 \mathrm{v}, 4 \mathrm{x} \\ & 2^{123} \mathrm{PCl}-32,5 \mathrm{v}, 1 \mathrm{x} \end{aligned}$ | None | None | None |
| C240 | 122,123 | $4^{122}$ | None | None | $\begin{aligned} & 2^{123} \mathrm{PCI}-64,3.3 \mathrm{v}, 4 \mathrm{x} \\ & 2^{123} \mathrm{PCI}-32,5 \mathrm{v}, 1 \mathrm{x} \end{aligned}$ | None | None | None |
| EPS20 |  |  |  |  |  |  |  |  |
| J200 | $4^{124}$ | $3^{124}$ | None | None | None | None | None | None |
| J210 | $4^{124}$ | $3^{124}$ | None | None | None | None | None | None |
| J210XC | $4^{124}$ | $3^{124}$ | None | None | None | None | None | None |
| J2240 | $1^{137}$ | $3^{138}$ | None | None | $\begin{aligned} & 2 \text { PCI- } 64^{138}, 3.3 \mathrm{v}, 4 \mathrm{x}, \\ & 3 \text { PCI- } 32^{138}, 5 \mathrm{v}, 1 \mathrm{x} \end{aligned}$ | None | None | None |
| J280 | $4^{124}$ | $3^{124}$ | None | None | None | None | None | None |
| J282 | $4^{124}$ | $3^{124}$ | None | None | None | None | None | None |

## PA-RISC Workstation Available Slots

| SPU Model | EISA | GSC | HP-PB | HSC | PCI | SGC | VME, VXI | Other |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| K260-EG | None | None | 2 double <br> 2 single | None ${ }^{125}$ | None | None | None | None |
| K460-EG | None | None | 2 double 2 single | 4 opt. ${ }^{125}$ | None | None | None | Note ${ }^{126}$ |
| K460-XP | None | None | 2 or 4 dbl . <br> 2 or 4 sngl. | 2 | None | None | None | None |
| MPS10 | Varies ${ }^{127}$ | Per Console | None | None | None | Per Console | None | None |
| TelePACE |  |  | None | None | None |  |  |  |
| $705^{\circ}$ | None | None | None | None | None | None | None | None |
| $710^{\circ}$ | None | None | None | None | None | None | None | None |
| 712 [/anyl | None | $1 \mathrm{GIO}^{128}$ | None | None | None | None | None | $1 \mathrm{TSIO}^{129}$ |
| 715s [/anyl | 4 | None | None | None | None | 2 | None | None |
| 715t [/anyl | 1 | None | None | None | None | 1 | None | None |
| 715/33,$/ 50^{\circ}$ | $1^{130,131}$ max. | None | None | None | None | $1^{131}$ E-SGC max. | None | None |
| 715/64, /80 | $1^{131}$ | $1^{131}$ | None | None | None | None | None | None |
| $\begin{array}{\|l\|l\|l\|l\|l\|l\|l\|l\|} \hline 7100 \\ \hline \end{array}$ | $1^{131}$ | $1^{131}$ | None | None | None | None | None | None |
| $720^{\circ}$ | 1 max. | None | None | None | None | 1 | None | None |
| 725/50 ${ }^{\circ} / 75^{\circ}$ | $4^{131,132}$ max. | None | None | None | None | $1^{131}$ E-SGC | None | None |
| 725/100 | $4^{133}$ | $3^{133} \mathrm{GSC}$ | None | None | None | None | None | None |
| 730 [/50] | 1 max. | None | None | None | None | 1 | None | None |
| 735 [/99] | 1 | None | None | None | None | 1 | None | None |
| 735CL ${ }^{\circ}$ | Varies | Per Console | None | None | None | Per Console | None | None |
| 735/125 | 1 | None | None | None | None | 1 | None | None |
| 742i | None | None | None | None | None | None | $\begin{array}{\|l\|} \hline \text { vme6Ux2 }^{13} \\ 4 \end{array}$ | None |
| 743i [/anyl | None | 2 GSC-M | None | None | None | None | vme6Ux1 ${ }^{135}$ | None |
| V743 [/anyl | None | 2 GSC-M | None | None | None | None | Cx1 ${ }^{136}$ | None |
| 744/132L |  |  |  |  |  |  |  |  |
| 745i [/anyl | 4 max. | None | None | None | None | None | None | None |
| 747i [/anyl | 2 max. | None | None | None | None | 1 | 6 VME | None |
| 748i [/anyl | 4 | 2 GSC-M | None | None | None | None | 6 VME | None |
| $750^{\circ}$ | 4 max. | None | None | None | None | 2 | None | None |
| 755 //anyl | 4 | None | None | None | None | 2 | None | None |

## Available Slots Notes:

122. Each EISA slot is co-located with a GSC slot. Each PCI slot is co-located with a GSC slot. Once a slot is used for one card type, it becomes unavailable any other card type.
123. One of the EISA slots shares a bulkhead with one of the PCI slots.
124. 2 slots are shared EISA/GSC
125. The HSC slot on the multi-function I/ O card is occupied by the standard VISUALIZE-EG graphics adaptor. This slot is available if the configuration permits removal of that card.
126. One dedicated system bus slot is available for VISUALIZE-48XP graphics or the optional 4 HSC slots.
127. The 802.3 cluster has one EISA slot available. The FDDI cluster has none.
128. The "GIO" (General I/O) slot is a Model 712-specific GSC slot and accepts only 712-specific cards, including the A4011A, A4013A, A4014A, A4015A, and A2878A.
129. The "TSIO" (TeleShare I/O) slot in the Model 712 accepts only the A4012AA card.
130. Slot not available if HCRX graphics installed.
131. This slot supports co-located EISA and GSC or SGC, which share the bulkhead. Use of the slot for one type of card prevents use of the slot for any other card.
132. Reduced to 3 slots in the CRX24Z or CRX48Z configuration.
133. 3 of the EISA slots are co-located with the 3 GSC slots. 1 GSC (and EISA) slot is lost if a fast-wide disk Option is specified. Another GSC (and EISA) is lost if HCRX graphics is specified.
134. The 742 i is a 2 -slot VME 6 U card.
135. The 743 i is a 1 -slot VME 6 U card.
136. The V743 is a 1 -slot C-size VXI card.
137. Requires purchase of A4955A\#0D1 kit $w /$ original purchase of processor.
138. Two GSC slots co-located with PCI64 slots, one GSC slot co-located with a PCI-32 slot.

## Workstation SCSI

Although workstation SCSI conforms to ANSI SCSI-2 or SCSI-3, these notations are insufficiently precise to indicate compatibility.

The tables in this document use the notation "<rbv>SCSI", where:

```
<r>=Data Rate, max.
"" 5 Mbytes/sec
"f" "fast" (10 or 20 MB/sec)
```

"u" "Ultra" (20 or $40 \mathrm{Mb} / \mathrm{sec}$ )
$<\mathrm{w}>=$ Bus Width:
"n" 8-bit narrow
"w" 16-bit "Wide"
$<\mathrm{v}>=$ Signalling Voltage Mode
"s" Single-ended 5V
"d" Differential 5V
"l" Low voltage 3.3V

Bus width (8- or 16-bit) and line drivers (single-ended, differential or lowvoltage differential signalling voltage) are the critical criteria.

Connector styles are also significant, but are presently beyond the scope of this document. Refer to the Workstations Configuration and Order Guides for a SCSI cable matrix.

## SCSI Notation

| Abbreviation | Description | Comment |
| :--- | :--- | :--- |
| fnsSCSI <br> nsSCSI | 8-bit, single-ended | nsSCSI is standard on all workstations, and some add-on cards are available. Some mcSCSI <br> and most UltraSCSI devices are compatible with an nsSCSI interface. |
| fndSCSI <br> ndSCSI | 8-bi,t differential | Only the 25525A\%/B EISA interface supports ndSCSI. External converters (unsupported) are <br> available to interconnect nsSCSI and ndSCSI. |
| fwsSCSI | Fast, 16-bit, single-ended | (Ultra) fwsSCSI interfaces are available on new B- and C-Class systems. No add-in card is pres- <br> ently available from HP for workstations. Cards are available from Complementary Hardware <br> Vendors. |
| fwdSCSI | Fast, 16-bit, differential | Built-in and plug-in fwdSCSI is available in several forms. Wide-to-narrow external cables and <br> converters are not supported. |
| unsSCSI | UltraSCSI, 8-bit, Single-Ended | No unsSCSI interface presently available from HP for workstations. unsSCSI devices may gen- <br> erally be used with an nsSCSI interface (although not at full performance). |
| uwsSCSI | UttraSCSI, 16-bit, Single-Ended | uwsSCSI interfaces are available on new B- and C-Class workstations. |$|$| UwdSCSI | UltraSCSI, 16-bit, Differential |
| :--- | :--- |
| uwdSCSI devices are generally compatible with an fwdSCSI interface (although not at full per- |  |
| formance). |  |

Wide (host) to narrow (device) cables are not supported on workstations.

Signal converters (such as nsSCSIndSCSI) exist, but none are presently supported on workstations.

As long as the bus width and signalling match, the interface and device can negotiate the fastest mutually supported data rate. It is possible to use an "ultra" device on a "fast" interface, and vice-versa.

Devices which supported only the 1.5 $\mathrm{MB} / \mathrm{sec}$ asynchronous mode may be used with any interface having compatible width and line drivers.

All workstation "narrow" SCSI interfaces are "fast"-capable.

The only penalties for using a device that is faster than the interface are: a. reduced max cable length, and b. the device will not operate at full speed.

For customers desiring to connect unsupported SCSI devices, an ioctllevel API is provided, but software driver source is not presently available.

## I/O Slots/Cages/Expanders

Some processor models accept expansion kits to add I/O slots.

Where such kits are not available, an external EISA or PCI expander may be a possible solution.

There are no external GIO, GSC, HSC or SGC expanders.

Backplanes, Slots/Adaptors \& Card Cages

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX <br> Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1401A ${ }^{\circ}$ | DIO-II to DIO slot adaptor | DIO-II | NA | No DIO-II slots | NA |
| HP A1460A ${ }^{\circ}$ | Add 4 EISA slots | s400 | NA | Incompatible | NA |
| HP A1467A ${ }^{\circ}$ | VMEbus expander | s400 | NA | Incompatible. <br> Select Model 74xi. | NA |
| HP A1828A | 14 slot expansion | HP-PB | Unsup. | Unsupported | Unsup. |
| HP A2804A | EISA slot | SGC | IODC 1.1 | Model 715/33 (without CRX-24) | 9.0-10.20 |
| HP A2943A | Upgrade from 2 to 4 slots | HP-PB | Unsup. | E-Class device | Unsup. |
| HP A2990A | 4-Slot HSC Expansion Kit | HP-PB |  | K400-Series Models | 10.20 |
| HP A3185A | 4-Slot HP-PB Expansion Kit | HP-PB |  | EPS20 | 10.01 |
| HP A3186A | 2-Slot HSC Expansion Kit | HP-PB |  | EPS20, K400-Series Models | 10.20 |
| HP A4000A ${ }^{\circ}$ | 7-slot VME cage | VME | NOP | Model 742i | 9.05-9.07 |
| HP A4001A ${ }^{\circ}$ | 22-slot VME cage | VME | NOP | Model 742i | 9.05-9.07 |
| HP A4219A | Model 744 expansion kit | GSC-M | Any | Models 743, 744, 748/64, 748/100, 748/132L, 748/165L | 10.20-11.0/32 |
| HP A4262A | Model 743 expansion kit (required for GSCM cards, adds 2 GSC-M slots) | 743 | Any | TelePACE, Models 743, 748/64, 748/ 100 | 9.05-11.0/32 |
| HP A4269A | PCMCIA Type II adaptor | 743 |  | Models 743, 748 |  |
| HP A4350A | Mass Storage tray upgrade. | Tray | Any | TelePACE, Model 748/[all] | 9.03-11.0/32 |
| HP A4504A | PMC Bridge Board | Daughter |  | Models 743, 744, 745/132L, 748/[all] | 10.20-11.0/32 |
| HP A4505A | 4 Slot PCI Module upgrade. Adds 4 PCl slots (5V), disables EISA and HIL. | Tray |  | Models 748/[all] | 10.10-11.0/32 |
| HP A4509A | PMC Bridge Board Expansion | Daughter |  | Models 743, 744, 745/132L, 748/[all] | 10.20-11.0/32 |
| HP A4542A ${ }^{\circ}$ | EISA slot for B132L+ or B180L, factory-integrated only | Backplane | NOP | Models B132L+ and B180L | 10.20-11.0/32 |
| HP A4546A ${ }^{\circ}$ | EISA slot for C200, factory-integrated only. Standard on C240. | Backplane | NOP | Model C200 | 10.20-11.0/32 |
| HP A4955A | EISA slot for J2240, factory-integrated only. | Backplane | NOP | Model J2240 | 10.20-11.0/32 |
| HP A4980A | 4-slot PCI Module | Daughter |  | Model 745/132L | 10.20-11.0/32 |
| HP E1300/01A $/$ / | VXI A-size mainframe, 3-slot | VXI | NOP |  |  |
| HP E1302A | VXI B-size mainframe, 20-slot | VXI | NOP |  |  |
| HP E1401A ${ }^{\circ}$ | VXI C-size mainframe, 13-slot, P1/P2 | VXI | NOP | Model V743 | 9.05 |
| HP E1401T | VXI C-size devel. mainframe, 11-slot | VXI | NOP | Model V743 | 9.05 |
| HP E1421A ${ }^{\circ}$ | VXI C-size mainframe, 6-slot | VXI | NOP | Model V743 | 9.05 |
| HP E2910A | PCI Bus Exerciser | ISA | N/A | Unsupported | None |
| HP E4220A ${ }^{\circ}$ | VXI C-size cage, w/color VGA CRT, PS2 and HIL ports | VXI |  |  |  |
| HP E8401A | VXI C-size mainframe, 13-slot | VXI-C |  |  |  |
| HP E8402-04A | VXI C-size mainframes, 13-slot with Enhanced Monitor | VXI-C |  |  |  |
| HP S2295A | Full 7-slot EISA Expander | EISA | Any | Models 715 [/alll, 720, 730 | 9.03-9.07 |

Backplanes, Slots/Adaptors \& Card Cages

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX <br> Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP S2399A ${ }^{\circ}$ | Limited 6-slot EISA expander | EISA | Some | All Models | Transp. |
| HP Z5177A | PCMCIA slot adaptor | GSC-M | N/A | Model 743 | Unsup. |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Bit3 Computer Corporation, Minneapolis MN, +01 612-881-6955 |  | http://www.bit3.com |  |  |  |
| 2101 | PCI-PCI Expansion Unit, 7 slot | PCI-5 | Unsup. | See Note ${ }^{139}$ | 10.20 |
| MDL Corp., |  | http://www.mdlcorp.com |  |  |  |
| EX700 | EISA Expander | EISA |  | Models 715, 720, 730 or 735 |  |

139. This unit is not supported on PARISC workstations by HP or by Bit3, but has been used in PCI development testing. Because 4 of the 7 slots are bridged off the first 3 slots, which are bridged off the host computer's PCI bus, any cards in the last 4 slots
are at the present HP-UX limit of 2 bridges.Any cards in the final 4 slots must be single-function, as multifunction cards are commonly implemented via an on-card additional bridge.

## Interface and Host Adaptor Cards

These tables list all EISA, GIO, GSC, GSC-M, HP-PB, HSC, ISA, PCI, SGC, E-SGC, TSIO cards and add-on slots about which support questions are likely to arise, as well as selected VME and VXI devices.

## Processor-Specific Cards

(Including GIO, TSIO)
Details on supported video cards are cross-referenced to the Graphics Video section of this document.

Standard GSC cards have an EISA form factor.

Details on supported video cards are cross-referenced to the Graphics Video section of this document.

Test \& measurement VME and VXI cards, for use with the 740-series SPUs, in general are not listed, as they are beyond the scope of this document.

GIO (General I/O) and TSIO (TeleShare I/O) are GSC form factors specific to the Model 712.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an

An HP-IB connection is also available via the E2050A external LAN adaptor (see Networking Devices section).
operating system, recovery system or diagnostic kernel from or through the device, or use that device as console. "Transp." means that the device is transparent to software.

## Processor-Specific Cards (Including GIO, TSIO)

| Vendor\& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |
| HP A1986A | EISA slot for Model 720 | SGC | $\Rightarrow$ | See SGC (and DIO-II) Cards | $\Leftarrow$ |
| HP A2089-66530 | Video/Audio for 715s/t | SGC | $\Rightarrow$ | See SGC (and DIO-II) Cards | $\Leftarrow$ |
| HP A2654A | FDDI Single, Daughter i/f | 755 | NOP | Model 755 140 | $9.0-10.10$ |
| HP A2658A | 802.3 AUI Daughter | 735 | IODC 1.1 | Model 735 | $9.0-10.10$ |
| HP A2665A | FDDI Daughter i/f | 735 | NOP | Model 735 | $9.0-10.10$ |
| HP A2831A | 802.3 10Base2 ThinLAN Daughter | 735 | IODC 1.1 | Model 735 | $9.0-10.10$ |

Processor-Specific Cards (Including GIO, TSIO)

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A2878A | 712 2nd video | GIO | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A2889A | fwdSCSI interface | Daughter | Any | Models B132L and B160L only (not B132L+) | 10.20-11.0/32 |
| HP A2991-60001 | Access Port modem | Daugher | Any | Models C160, C180, C200 and C240 only (excludes C160L) | 10.20 |
| HP A3262-69211 | Access Port (consumes topmost combined GSC+EISA slot) | Custom +GSC | Any | Models C160, C180, C200 and C240 only (excludes C160L) | 10.20 |
| HP A4011A | 802.5 Token Ring interface | GIO | Any | Model 712 | 9.03-9.07 |
| HP A4011B | 802.5 Token Ring interface | GIO | Any | Model 712 | 10.01-10.10 |
| HP A4012A, HP A4012AJ ${ }^{\circ}$ | TeleShare POTS interface, analog RJIC | GIO | Any | Model 712 | 9.05-9.07 $\overline{7}$ |
| HP A4013A ${ }^{\circ}$ | Second serial port interface | GIO | Any | Model 712 | 9.03-11.0/32 |
| HP A4014A | Second LAN (802.3, AUI and 10BaseT) plus 2nd serial port interface | GIO | Any | Model 712 | 9.03-11.0/32 |
| HP A4015A | 2nd serial \& X. 25 Link w/DB9M RS-232C connects | GIO | Any | Model 712 | $\begin{array}{\|l\|} \hline 9.03(\mathrm{w} / \mathrm{J} 2232 \mathrm{~A} \\ \text { Streams)-10.20 } \end{array}$ |
| HP A4217A ${ }^{\circ}$ | Dual head/dual LAN | GIO+TSIO | Any | Model 712 | 9.03-10.20 |
| HP A4625A | Hi-Res kit | VRAM | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hard ware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Test and Measurement Systems, Loveland CO, 970-669-6553 |  | http://www.tamsinc.com/ |  |  |  |
| TAMS 50488 | HP-IB interface | GIO | N/A | Model 712 | $\begin{aligned} & 9.01-9.07 \perp 10.01- \\ & 10.20 \end{aligned}$ |

Processor-Specific Card Notes:
140. Not supported on Dual CRX24 or Quad CRX CRX systems. Use an EISA FDDI card.

## EISA and Selected ISA Cards

Note: HP-UX 10.20 is the final release of workstation HP-UX that supports EISA cards.

An EISA slot may be used for any supported ISA card. Note that EISA slots are optional on some recent SPUs, and may only be ordered with the original system purchase.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the
device, or use that device as console. "Transp." means that the device is transparent to software.

Note: The HP PA-RISC Device I/O Library [DIL] is not fully implemented on PA-RISC Workstation HP-UX. In particular HP-IB support is limited to simple (non-AMIGO, non-CIPER) I/O for printers and plotters, and only via the 25560A EISA interface.

A Standard Instrument Control Library [SICL, HP E2091D, see Glossary] is available but it does not sup-
port non-instrument computer peripherals, and supports only the E2070A/B, E2071A ISA HP-IB and E2074A ISA GPIO cards, and does not support the 25560A EISA HP-IB interface.

An HP-IB connection is also available via the E2050A external LAN adaptor (see Networking Devices section).

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

## EISA and Selected ISA Cards

| Vendor\& Product <br> Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

EISA and Selected ISA Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP D1677A ${ }^{\circ}$ | ESDI controller | ISA | Unsup. | Never supported | No driver |
| HP D1681A ${ }^{\circ}$ | SCSI Host Adaptor (PC) | EISA | NOP | Unsupported | No driver |
| HP D1682A ${ }^{\circ}$ | SCSI Host Adaptor (PC) | ISA | NOP | Unsupported | No driver |
| HP D2040A ${ }^{\circ}$ | Terminal multiplexer | ISA | NOP | Unsupported | No driver |
| HP D2078A/B | Fast SCSI-2 host adaptor for HP NetServer | EISA | NOP | Unsupported | No driver |
| HP D2378A ${ }^{\circ}$ | 802.5 Token Ring | ISA | NOP | Unsupported | No driver |
| HP D2325A ${ }^{\circ}$ | Ultra VGA interface | ISA | NOP | Unsupported | No driver |
| HP D2382A ${ }^{\circ}$ | Super VGA interface | ISA | NOP | Unsupported | No driver |
| HP D2410A ${ }^{\circ 0}$ | AID interface | ISA | NOP | Never supported | No driver |
| HP D2649A ${ }^{\circ}$ | SCSI Host Adaptor (PC) | EISA | NOP | Unsupported | No driver |
| HP D5182A | Audio card | ISA | NOP | Unsupported | No driver |
| HP E1483A ${ }^{\circ}$ | VXlink interface | ISA |  | Unsupported | No driver |
| HP E1489C HP E14891 $/{ }^{\circ 00}$ | MXI interface | EISA | NOP | All EISA Models | $\begin{aligned} & \text { SICL }{ }^{141} 8.05- \\ & 9.07 \perp 10.01 \perp 10.20 \nabla \end{aligned}$ |
| $\begin{aligned} & \hline \text { HP E2070C } \\ & \text { HP E2070A } / \text { B }^{\circ} \end{aligned}$ | HP-IB Interface, std.speed, for instruments | ISA | NOP | All EISA Models | $\begin{aligned} & \text { SICL }^{141} 8.05- \\ & 9.07 \perp 10.01 \perp 10.20 \nabla \end{aligned}$ |
| HP E2071A/B/C/I | HP-IB Interface, high speed, for instruments | EISA | NOP | All EISA Models | $\begin{aligned} & \text { SICL }{ }^{141} 8.05- \\ & 9.07 \perp 10.01 \perp 10.20 \nabla \end{aligned}$ |
| HP E2074A $/$ / | GPIO Interface | EISA | NOP | All EISA Models | $\begin{aligned} & \text { SIC }^{141} \mathrm{~L} 8.05- \\ & 9.07 \perp 10.01 \perp 10.20 \nabla \end{aligned}$ |
| HP E2075A | GPIO Interface for Win95 | ISA | NOP | Unsupported. Use E2074A | Unsupported |
| HP E2777A | FDDI interface for HP 83000 | EISA | NOP | Supported in HP 83000 IC test config only |  |
| HP E2790A | GPIO interface for HP 83000 | EISA | NOP | Supported in HP 83000 IC test config only |  |
| HP FC20 | Jumbo 250 controller | ISA | NOP | Unsupported | No driver |
| HP J2102A ${ }^{\circ}$ | ISDN BRI | ISA | NOP | Unsupported | Unsup. |
| HP J2104A ${ }^{\circ}$ | ISDN Basic Rate Interface | ISA | NOP | All EISA Models | 8.07 w/J2105A |
| HP J2109A ${ }^{\circ}$ | ISDN BRI (USA) | ISA | NOP | All EISA Models | 9.03-9.07 |
| HP J2156A ${ }^{\circ}$ | FDDI-single MIC interface (suggested replacement is B5502AA) | EISA | NOP | All EISA Models, subject to HP-UX version limits. | 8.07-9.07 |
| HP J2159A | X. 25 interface | EISA | NOP | All EISA Models ${ }^{142}$ | 8.07-10.20 $\overline{\text { - }}$ |
| HP J2165A ${ }^{\circ}$ | IEEE 802.5 token ring i/f | EISA | NOP | All EISA Models | 8.07-9.07 $\perp 10.01-11.0 / 32$ |
| HP J2220B \#002 | EISA PSI (programmable serial interface - protocol depends on software) | EISA | NOP | All EISA Models | 10.10-11.0/32 |
| HP J2226A \#UG3 | SNAplus Link (interface) Option required (supplies card) | EISA | NOP | All EISA Models | $\begin{aligned} & \hline 8.07-11.0 / 32 \\ & 9.0 x \text { requires J2232A } \\ & \text { Streams } \end{aligned}$ |
| HP J2260A | 802.3 interface | ISA | NOP | Unsupported | Unsup. |
| HP J2261A | 802.5 interface | ISA | NOP | Unsupported | Unsup. |
| HP J2405A ${ }^{\circ}$ | LAN Adaptor NC/16 | ISA | NOP | Unsupported | Unsup. |
| HP J2482A | 8-Port RS-232C Multiplexer | EISA | NOP | All EISA Models (per NCD) | $10.01{ }^{143}-11.08$ |

EISA and Selected ISA Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP J2483A | 64-Port RS-232C Multiplexer | EISA | NOP | ESY: D-Class servers. Not officially supported on workstations. | $10,01{ }^{143}-11.08$ |
| HP J2573A ${ }^{\circ}$ | 10/100VG LAN Adaptor | ISA | NOP | Unsupported | Unsup. |
| HP J2577A | 10/100VG LAN Adaptor | EISA | NOP | Unsupported | Unsup. |
| HP J2615A | LAN interface | ISA | NOP | Unsupported | Unsup. |
| $\begin{aligned} & \hline \text { HP J2645AA } \\ & \text { Notes }^{144,150} \end{aligned}$ | 10/100VG LAN Link | EISA | NOP | All EISA Models | $\begin{aligned} & \text { 9.0-11.0/32, requires } \\ & \text { J2655AA } \end{aligned}$ |
| HP J2794A | X.25, high performance | EISA | NOP | All EISA Models | 10.01-11.0/32 |
| HP J2802A ${ }^{\circ}$ | ATM adaptor, OC3/155 Mbps | EISA | NOP | 700 EISA Models. Cannot be used with J2498A. | 9.0-9.07 w/J2806Ax |
| HP J2802B ${ }^{\circ}$ | ATM adaptor, OC3c/STS-3c/155 Mbps | EISA | NOP | 700 EISA Models. Cannot be used with J2498A. | 10.01-10.20 w w/J2806Bx |
| HP J2815A | Dual Port PSI card (protocol depends on software purchased) | EISA | NOP | All EISA Models | 10.01-11.0/32 |
| HP J3239A ${ }^{\circ}$ | DeskDirect EL-10, LAN Combo | ISA | NOP | Unsupported | No driver |
| HP S2399A | Limited 6-slot EISA expander | EISA |  | See Backplanes, Slots/Adaptors \& Card Cages table |  |
| HP SC-50 ${ }^{\circ}$ | PowerTape nsSCSI i/f | ISA | Unsup. | Unsupported | Unsup. |
| HP TC-15 ${ }^{\circ}$ | Jumbo i/f with compression | ISA | Unsup. | Unsupported | Unsup. |
| HP Z1100A ${ }^{\circ}$ | RasterOps VideoLive | EISA | NOP | All EISA Models | 8.07 (no 10.0) |
| HP Z7048A\#001 | Dialogic D/240SC-T1 | ISA | NOP | All EISA Models | 9.05-9.07 $\perp 10.20$ |
| HP Z7048A\#002 | Dialogic D/320SC+DTI/212 | ISA | NOP | All EISA Models | 9.05-9.07 $\perp 10.20$ |
| HP Z7048A\#003 | Dialogic D/300SCTE1 | 2xEISA | NOP | All EISA Models | 9.05-9.07 $\perp 10.20$ |
| HP Z7400A | ACC, 8-channel, card only | EISA | NOP | All EISA Models | 10.01-10.20 |
| HP Z7401/02A | ACC, 8-channel | EISA | NOP | All EISA Models | 10.01-10.20 $\overline{\text { - }}$ |
| HP 24540B ${ }^{\circ}$ | Serial/parallel i/f | ISA | NOP | Unsupported | Unsup. |
| HP $24541 \mathrm{~B}^{\circ}$ | Dual Serial i/f | ISA | NOP | Unsupported | Unsup. |
| HP 24550A ${ }^{\circ 0}$ | 1200 bps modem | ISA | NOP | Never supported | Unsup. |
| HP $24551^{\circ} \mathrm{A} / \mathrm{B}$ | 2400 bps modem | ISA | NOP | Never supported | Unsup. |
| HP 25523A ${ }^{\circ}$ | 8-bit Single-Ended SCSI-II (nsSCSI-II). Special product - replaced by A2679A | EISA |  | Factory Special | Factory Special |
| HP 25525A ${ }^{\circ}$ | 8-bit Differential SCSI-II (ndSCSI) interface | EISA |  | Models 720, 730, 735 [/alll, 750, 755 [/all] | 8.05-10.20 |
| HP 25525B ${ }^{\circ}$ | 8-bit Differential SCSI-II (ndSCSI) interface | EISA |  | All EISA Models except J-Class | 8.05-11.0/32 |
| HP 25560A ${ }^{\circ}$ | HP-IB, high speed | EISA | NOP | All EISA Models | 8.05-10.20 |

EISA and Selected ISA Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP 25567A ${ }^{\circ}$ | LAN, IEEE-802 Thin/AUI | EISA |  | EISA Models MPS10, 715 [/allu, 720, 725/33, 725/50, 725/75, 730, 735 [/ alll, 745 [/alll, 747 [/alll, 750, 755 [/ all] Non-functional on C-Class. | 8.05-10.20 |
| HP $25567{ }^{\circ}$ | LAN, IEEE-802 Thin/AUI | EISA |  | TelePACE, EISA Models MPS10, 715 // all, 720, 725/33, 725/50, 725/75, 730,735 [/alll, 745 l/alld, 747 [/alll, 748i, 748/132L, 748/165L, 750, 755 // all] Non-functional on C-Class. | 8.05-11.0/32 |
| HP 27209A ${ }^{\circ}$ | HP-IB (aka 88990A) | ISA | NOP | Never supported - Use E2070x | Unsup. |
| HP 27210 ${ }^{\circ}$ | ThinLAN interface | ISA | NOP | Never supported | No driver |
| HP 27236A ${ }^{\circ}$ | StarLAN 10 interface | ISA | NOP | Never supported | No driver |
| HP 27245/47A/B ${ }^{\circ}$ | EtherTwist 8/16 interface | ISA | NOP | Unsupported | No driver |
| HP 27248A ${ }^{\circ}$ | EtherTwist interface | EISA | NOP | Unsupported | No driver |
| HP 27250A ${ }^{\circ}$ | ThinLAN interface | ISA | NOP | Unsupported | No driver |
| HP 27252A ${ }^{\circ}$ | ThinLAN interface | ISA | NOP | Unsupported | No driver |
| HP 78360B | SDN (Medical) i/f | ISA | NOP |  |  |
| HP 82300 ${ }^{\circ}$ | BASIC Lang. proc. | ISA | NOP | Unsupported | No driver |
| HP 82306A | GPIO for 82300 | ISA-DIO | NOP | Not functional | No I/O path |
| HP 82324A | BASIC Lang. proc. | ISA | NOP | Unsupported | No driver |
| HP 82328A ${ }^{\circ 0}$ | Intelligent Graphics Card | ISA | NOP | Never supported | No driver |
| HP 82335A ${ }^{\circ} / \mathrm{B}$ | HP-IB-II interface | ISA | NOP | Never supported - Use E2070x | Unsup. |
| HP $82340^{\circ \circ} \mathrm{A} / \mathrm{B}$ | HP-IB interface | ISA | NOP | Unsupported - Use E2070x | Unsup. |
| $\begin{aligned} & \text { HP 82341A }{ }^{\circ} / \text { B }^{\circ} \\ & \text { HP 82341C } \end{aligned}$ | HP-IB interface, high-speed | EISA | NOP | Unsupported - Use E2071x | Unsup. |
| HP 88141A ${ }^{\circ}$ | JetScript i/f for LaserJet-II | ISA | NOP | Unsupported | No driver |
| HP 88295A ${ }^{\circ}$ | ScanJet-interface | ISA | NOP | Unsupported | No driver |
| HP $88500^{\circ} \mathrm{A} / \mathrm{B}$ | CS/80 HP-IB interface | ISA | NOP | Never supported. Use 25560A. | No driver |
| HP-Apollo A-ADD-PCC ${ }^{\circ}$ | DOS co-processor | ISA | NOP | Never supported | No driver |
| HP-Apollo A-ADD-SPE ${ }^{\circ}$ | Apollo serial/par | ISA | NOP | Never supported | No driver |
| HP-Apollo A-ADD-SWFC | nsSCSI controller | ISA | NOP | Unsupported | No driver |
| HP-Apollo A-ADD-WFC ${ }^{\circ}$ | ESDI controller | ISA | NOP | Unsupported | No driver |
| HP-Apollo A-NET-ATR ${ }^{\circ}$ | Apollo Token Ring | ISA | NOP | 400 Upgrades only. Use A2544A or A2545A | 8.07-9.07 $\overline{\text { V }}$ |
| HP-Apollo A-NET-ETH ${ }^{\circ}$ | IEEE-802.3 i/f | ISA | NOP | Unsupported | No driver |
| HP-Apollo A-NET-ITR ${ }^{\circ}$ | IBM token ring i/f | ISA | NOP | 400 Upgrades only. Use J2165A | ${ }^{9.0-9.07}{ }^{145} \nabla$ |
| HP-Apollo APLR-386 ${ }^{\circ}$ | 386 Co-processor | ISA | NOP | Unsupported | No driver |
| HP-Apollo COM-PCI-RGB ${ }^{\circ}$ | ATR host adaptor | ISA | NOP | Never supported. Use AA2544A or A2545A | No driver |
| HP-Apollo KIT-CENTx | Parallel interface | ISA | NOP | User supported | Sample ${ }^{146}$ |
| HP-Apollo K1094 ${ }^{\circ}$ | "ETH-LINK-II" 3COM i/f | ISA | NOP | Unsupported. Use A25567B or J2645AA | No driver |

EISA and Selected ISA Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. <br> Boot <br> ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP-Apollo K1493 ${ }^{\circ 0}$ | 224PC modem + MNP5 compr. | ISA | NOP | Unsupported | No driver |
| HP-Apollo K1496 ${ }^{\circ}$ | 2400/1200/300 bps modem | ISA | NOP | Unsupported | No driver |
| HP-Apollo K1623 ${ }^{\circ}$ | "PTR-PAR-BOARD" | ISA | NOP | Unsupported | No driver |
| HP-Apollo SCAT10N/R- | X. 25 interface | ISA | NOP | Unsupported. Use J2159A | No driver |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Bit3 Computer Corporation, Minneapolis MN, +01 612-881-6955 |  | http://www.bit3.com |  |  |  |
| 487-1 | EISA-to-VME Adaptor | EISA | Unsup. | All EISA Models | Note ${ }^{149}$ |
| Cisco |  | http://www.cisco.com/ |  |  |  |
| <various> | FDDI/CDDI adaptors | EISA | NOP | See Interphase |  |
| Interphase, (214) 654-5000 |  | http://www.iphase.com/ |  |  |  |
| $\begin{aligned} & \text { WA-C32IT-UX } \\ & \text { WA-C323T-UX } \\ & \text { WA-C326T-UX } \\ & \text { WA-C328T-UX } \end{aligned}$ | (formerly CISCO products) FDDI single-attach adaptor CDDI single-attach adaptor FDDI dual-attach adaptor CDDI dual-attach adaptor | EISA | NOP | Vendor: All EISA Models | 8.x, 9.x, 10.0 |
| 4811 | FDDI interface, X3T9.5, single MIC, single/dual UTP, single/dual STP | EISA | NOP | Vendor: All EISA Models | 9.03 $\perp 10 . \mathrm{x}$ |
| 4824 | 100BaseT/10BaseT Adaptor | EISA | NOP | Vendor: All EISA Models | 10.x |
| MDL Corp, (425) 861-6700 |  | http://www.mdlcorp.com |  |  |  |
| FAWS, single-ended | fwsSCSI interface | EISA |  | All EISA Models |  |
| FAW, differential | fwdSCSI | EISA |  | All EISA Models |  |
| Parallax |  | http://www.parallax.com/home.html |  |  |  |
| XVideo700 | Video export/import | EISA | NOP | Vendor supported | 9.05-9.07 $\perp 10.10$ |
| Qualix (Icon West), (415) 572-0200 |  | http://www.qualix.com/ |  |  |  |
| IW-H100- | Phobos 100BaseT | EISA | NOP | Vendor supported |  |
| SBE |  | http://www.sbei.com/marketng |  |  |  |
| WSU-432D | Fast Wide SCSI differential interface (fwdSCSI) | EISA | NOP | Vendor: All EISA Models | 9.01- |
| WSU-432S | Fast Wide SCSI single-ended interface (fwsSCSI) | EISA | NOP | Vendor: All EISA Models | 9.01- |
| TransERA |  | http:// |  |  |  |
| - | GPIO card | EISA | NOP |  |  |

## EISA/ISA Card Notes:

141. See SICL in Glossary for detailed support information.
142. Not supported on SMP Models configured with more than one processor (e.g. J210, J282).
143. Requires driver software product $\mathrm{J} 2467 \mathrm{~A}^{\circ}$ (10.01) or J2467B (\#APH for 10.01, \#APS for 10.10).
144. This card is not supported for use in a system that also has a J2498A (GSC) or J2803B (HSC) ATM 155 card installed.
145. Must replace with alternate hardware at 10.0. B5502AA recommended for 10.20 and later.
146. The source code for an unsupported sample driver is provided in the SelfPaced Driver Training kit, HP part number A1421-67901.
147. Requires B5503AA license.
148. Requires B5500AA license.
149. Requires Bit3 Model 933 software. HP-UX version support unspecified.
150. Although the interface card supplied with product J2645AA is still available in the A3402A product, the necessary J2655A software is no longer available.

## GSC, GSC-Mezzanine and HSC Cards

Details on supported video cards are cross-referenced to the Graphics Video section of this document.

Standard GSC cards have an EISA form factor.

GSC-M (GSC Mezzanine) cards have a 3 x 5 -inch form factor with a VME Mezzanine cover plate. An adaptor kit may be required to use any GSC-M cards.

HSC cards are identical to GSC-M card except for the cover plate (they are not interchangable, however).

HSC cards are presently supported only on EPS and K-Class PA-RISC Workstations.

HP-PB (HP Precision Bus, aka "HPNIO") cards have a form-factor genrally similar to VME 3U (single-high HP-PB) or VME 6U (double-high HPPB ) cards. A double-high HP-PB slot accomodates only one single-high HP-PB card.

GIO (General I/O) and TSIO (TeleShare I/O) are GSC form factors specific to the Model 712, and are described in a table on page 129.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the device, or use that device as console. "Transp." means that the device is transparent to software.
Note: The HP PA-RISC Device I/O Library [DIL] is not fully implemented on PA-RISC Workstation HP-UX. In particular HP-IB support is limited to simple (non-AMIGO, non-CIPER) I/O for printers and plotters, and only via the 25560A EISA interface.

GSC, GSC-Mezzanine and HSC Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | $\begin{gathered} \text { Min. Boot } \\ \text { ROM } \end{gathered}$ | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A2874-66005 | Fast Wide SCSI See A4107A | GSC | $\Rightarrow$ | See A4107A | $\Leftarrow$ |
| HP A2969A | fwdSCSI Interface, HD68 | HSC 3x5 | Any | EPS20, K400-Series | 10.01-10.20 |
| HP A2999A | Graphics Adaptor | HSC 3x5 | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A3262-69211 | Access Port (consumes topmost combined GSC+EISA slot) |  | $\Rightarrow$ | See Processor-Specific Cards section | $\Leftarrow$ |
| HP A3404A | Fibre Channel, 1063 Mbps (Mass Storage only) | HSC 3x5 | No | EPS, K-Class | 10.20 |
| HP A3406A | Fibre Channel Model 266 (Datacomm only) | HSC 3x5 | No | EPS20, Model K420, maximum of 5 cards per SPU | $\begin{aligned} & \hline 10.10-11.0 \mathrm{w} / \\ & \text { J2390AA } \\ & \hline \end{aligned}$ |
| HP A3519A | HP VISUALIZE-EG | HSC, EVC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A3591A | HFC Fibre Channel, 1063Mbps | GSC | $\Rightarrow$ | Unsupported. D-Class only. | $\Leftarrow$ |
| HP A3636A | 1 GB Fibre Channel interface | HSC | $\Rightarrow$ | Unsupported. T-Class only | $\Leftarrow$ |
| HP A3638A | 266 Mbps Fibre Channel interface | HSC | $\Rightarrow$ | Unsupported. T-Class only | $\Leftarrow$ |
| HP A3644A | fwdSCSI Interface, HD68 | HSC | $\Rightarrow$ | Unsupported. T-Class only | $\Leftarrow$ |
| HP A3699A | HSC to HP-PB bus converter | HSC |  | K-Class |  |
| HP A3722A | FDDI interface | HSC 3x5 | N/A | K-Class | 10.20, w/J3701AA |
| HP A3723A | FDDI interface | GSC | N/A | All GSC (EISA FF) Models | $\begin{array}{\|l} \text { 10.20-11.0/32, w/ } \\ \text { J3629AA } \end{array}$ |
| HP A4070A ${ }^{\circ} \mathrm{B}^{\circ}$ | HyperCRX8 video adaptor | GSC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4071A $/$ / | HyperCRX24 video adaptor | GSC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A $4073 \mathrm{~A}^{\circ} \mathrm{B}^{\circ}$ | HyperCRX48Z video adaptor | GSC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4077A $/$ B | CR8 2D video adaptor | GSC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4107A | Fast Wide SCSI-2 host adaptor | GSC |  | B-Class, C-Class, J-Class, Models 715/100XC ${ }^{151}$, 725/100 | 9.05-11.0 |
| HP A4246A | HP VISUALIZE-48XP | GSC ${ }^{152}$, EVC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4248A | Video Export Board | GSC Daugh- <br> ter | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4253-69001 | Freedom interface | GSC | Any | Models 715/80, 715/100, J200, J210 | 9.05 |

## GSC, GSC-Mezzanine and HSC Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A4267A | 8-plane graphics | GSC-M | $\Rightarrow$ | See Graphics Video section | $=$ |
| HP A4268A | Fast Wide SCSI | GSC-M | Any | TelePACE, Models $743^{153}, 744,748$; 748/132L, 748/165L | 9.05-11.0/32 |
| HP A4315A | HCRX-8VME | Large GSC-M | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4316A | HCRX-24VME | Large GSC-M | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4333A | HP VISUALIZE-IVX | GSC daughter | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4450A | HP VISUALIZE-EG | GSC, EVC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4451A | HP Dual VISUALIZE-EG | GSC, EVC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4455A | HP VISUALIZE-EG | HSC-Large, EVC | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4920A | HyperFabric 160 MB/sec adapter | HSC |  | K-Class | 10.20-11.0 |
| HP A4924A | 1000BaseSX | HSC |  | K-Class | 10.20-11.0 |
| HP A4926A | 1000BaseSX | GSC |  |  | 10.20-11.0 |
| HP J2468A | ATM/622 adaptor, OC12c/MMF | HSC | NOP | K-Class |  |
| HP J2469A | ATM/155 adaptor, OC3c | HSC | NOP | K-Class |  |
| HP J24988 ${ }^{154}$ | ATM adaptor, 155 | GSC | NOP | B-Class, C-Class, J-Class. Cannot also be used with J2802A/B. | $\begin{array}{\|l} \hline 10.01-11.0 / 32 \mathrm{w} / \\ \mathrm{J} 2806 \mathrm{Bx} \\ \hline \end{array}$ |
| HP J2499A \#001 | ATM/155 OC3c | GSC | NOP | B-Class, C-Class, J-Class | 10.20-11.0/32 |
| HP J2803A ${ }^{\circ}$ | ATM adaptor, OC3/155 Mbps | HSC | NOP | K-Class 4xx Models | 9.0-9.07 |
| HP J2803B ${ }^{154}$ | ATM adaptor, OC3/UTP5/155 Mbps | HSC | NOP | K-Class 4xx Models | $\begin{aligned} & \text { 10.01-10.20 w/ } \\ & \text { J2806A } \% \text { BA } \end{aligned}$ |
| HP J3420A | ATM adaptor, OC3/UTP5/155 Mbps | GSC-M | Rev. J | Models 743/132L, 744, 748/132L, 748/165L Cannot be used with A4315A or A4316A HCRX-VME cards. | $\begin{aligned} & \text { 10.20-11.0/32 } \\ & \text { w/J2806BA } \end{aligned}$ |
| HP J3514A | 100BaseT/10BaseT dual-port adaptor | HSC | NOP | K-Class | 10.20-11.0 |
| HP J3515A | 100BaseT/10BaseT/AUI adaptor | GSC | NOP | D-Class, J210XC, J282 | 10.20-11.0 |
| HP J3516A | 100BaseT/10BaseT dual-port adaptor | GSC | NOP | B-Class, C-Class, J-Class | 10.20-11.0 |
| HP J3573A | ATM/622 adaptor, OC12c/MMF | GSC | NOP |  |  |
| HP Z5117A | PCMCIA adaptor for 743rt | GSC-M | $\Rightarrow$ | Unsupported | No driver |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Essential Communications, 505-344-0080 |  | http://www.esscom.com |  |  |  |
| Model | Desc | Type | Boot | Hdw | HP-UX |
| EC-340-SF | Serial HIPPI NIC | PCI, 5V | NOP | <TBD> | <TBD> |

## GSC/HSC Card Notes:

151. External device support only. Installation requires removal of EISA capability, relocation of SCSI termination resistors, and separate purchase of parts: A4071-62001, A4071-40001,

A4071-40003. Unsupported on 715/ 100, but /100 may be upgraded to 100XC configuration.
152. Card set may occupy $2,2^{1 / 2}$ or 3 GSC slots.
153. Model 743 requires A4262A Expansion Kit if not already present.
154. This card is not supported for use in a system that also has a J2645AA EISA 100VG LAN card installed.

## HP-PB (HP-NIO) Cards

Topic HP-PB (HP Precision Bus, aka "HP-NIO") cards have a form-factor genrally similar to VME 3U (singlehigh HP-PB) or VME 6U (double-high HP-PB) cards. A double-high HP-PB slot accomodates only one singlehigh HP-PB card.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the
device, or use that device as console. "Transp." means that the device is transparent to software.

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

## HP-PB (HP-NIO) Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1748A | HP-FL Interface | HP-PB | Unsup. | Unsupported | Unsup. |
| HP A1749A | HP-FL Interface | HP-PB | Unsup. | Unsupported | Unsup. |
| HP A3495AA | 100BaseT Interface | HP-PB | Unsup. | K-Class | 10.20-11.0 |
| HP B5426AA | 100VG 803.12 interface | HP-PB |  | MPE product | Unsup. |
| HP B5427AA | 100BaseTX 803.2u interface | HP-PB |  | MPE product | Unsup. |
| HP C2430SC | HP-FL to fwdSCSI Upgrade Kit | HP-PB | $\Rightarrow$ | See 28696A | Ô |
| HP J2092A | RS-232C MUX, direct, 16-ch. | HP-PB | N/A | K-Class | 8.02-10.20 |
| HP J2093A | RS-423 MUX, direct, 16-channel | HP-PB | N/A | K-Class | 8.02-10.20 |
| HP J2094A | RS-232C MUX, modem, 16-ch. | HP-PB | N/A | K-Class | 8.02-10.20 |
| HP J2096A | RS-232C MUX, direct, 32-ch. | HP-PB | N/A | K-Class | 8.02-10.20 |
| HP J2146A | 802.3 Network Interface | HP-PB |  | EPS20, Model K410 | 8.02-10.01 |
| HP J2157A | FDDI Interface | HP-PB | NOP | EPS20, K-Class | $\begin{aligned} & \text { 9.04-10.20 w/ } \\ & \text { J2658AA } \end{aligned}$ |
| HP J2166A | IEEE 802.5 Token Ring Interface | HP-PB |  | EPS20 | 10.01 |
| HP J2220B \#001 | PSI: Programmable Serial I/F card (protocol depends on software) | HP-PB | N/A |  |  |
| HP J2792A | PSI card (protocol depends on software purchased) | HP-PB | N/A | K-Class | 10.01-10.20 |
| HP J2804A | ATM adaptor | HP-PB | N/A | Unsupported | Unsup. |
| HP Z7126A | Datakit-II VCS Fiber Optic Interface and COMKIT 4.0 software | 2H HP-PB | N/A | K-Class | 10.01-10.10 |
| HP Z7127A | Additional Datakit-II VCS I/F | 2H HP-PB | N/A | K-Class | 10.01-10.10 |
| HP Z7200A | 8ch ACC ${ }^{155}$, card only | HP-PB |  | K-Class | Depends on software ordered. |
| HP Z7239A | 8ch ACC ${ }^{155} 2.2 \mathrm{x}$ for HP-UX 9.x |  | N/A | Unsupported |  |
| HP Z7240A | $8 \mathrm{ch} \mathrm{ACC}{ }^{155} 2.2 \mathrm{x}$ for HP-UX $10 . \mathrm{x}$ |  |  | K-Class |  |
| HP Z7249A | 8ch ACC ${ }^{155} 2.2 \mathrm{x}$ for HP-UX 9.x |  | N/A | Unsupported |  |
| HP Z7250A | 8ch ACC ${ }^{155}$ 2.2x for HP-UX 10.x | HP-PB |  | K-Class |  |
| HP Z7300A | , card only | HP-PB |  | K-Class |  |
| HP Z7350A | 2ch ACC ${ }^{155}$ Interface, card only | HP-PB |  | K-Class | Depends on software ordered. |
| HP Z7351A | X.25/ACC ${ }^{155}$ Interface, 2-channel | HP-PB |  | K-Class | 10.01 |
| HP Z7352A | ACC Multi-Protocol i/f, 2-channel, base | HP-PB |  | K-Class | 10.01 |
| HP Z7301A | X.25/ACC ${ }^{155}$ Interface, 4-channel | HP-PB |  | K-Class |  |
| HP Z7302A | T1/El ACC ${ }^{155}, 4$-channel, base | HP-PB |  | K-Class |  |

HP-PB (HP-NIO) Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP 27251A | SCSI Host Adaptor | HP-PB |  | K-Class |  |
| HP Z7350A | 2-Port ACC Interface (protocol depends on software ordered) | HP-PB |  | K-Class |  |
| HP 28615A | HP-FL Interface | HP-PB | Any | K-Class | 10.01-10.20 |
| HP 28616A | HP-FL Interface | HP-PB | Unsup. | Unsupported | MPE/iX Device |
| HP 28642A | nsSCSI/Parallel Host Adaptor | HP-PB | N/A | Unsupported (MPE only) | Unsup. |
| HP 28655A | nsSCSI/Parallel Host Adaptor, 1xHD50SL/TS, 1xDB25F | HP-PB | Any | K-Class | 10.0-10.20 |
| HP 28696A | fwdSCSI interface | HP-PB | Any | EPS20, K-Class | 10.01-10.20 |
| HP 36960A | X.25/9000 Link for Series 800 | HP-PB |  |  |  |
| HP 36967A | 802.3 Interface | 2xHP-PB | Unsup. | Unsupported | Unsup. |
| HP 40299A/B | RS-232C MUX, 8-channel | HP-PB |  |  | 7.0-10.20 |
| HP 92203MB/RB | ACC ${ }^{155}$ | HP-PB | N/A | Unsupported | $9.04 \nabla$ |
| HP 93302PD | Datakit-II VCS Fiber Optic Interface and COMKIT 3.2 software | 2H HP-PB | N/A | K-Class | 10.01-10.10 |
| HP 94181A | Real-Time Interface card | HP-PB |  |  |  |

## HP-PB(NIO) Card Notes:

155. Advanced Communications Control-
ler - a programmable serial interface
card. Capabilities depend on card
product number and supporting soft-
ware package selected.

## PCI Cards

See the PCI (Peripheral Component Interconnect) section of page B-194, Appendix B: I/O Card Illustrations for illustrations of PCI cards.

Recent and new PA-RISC workstations may have combinations of: 32 -bit 3.3 v PCI slots,
32-bit 5v PCI slots, and/or 64 -bit 3.3 v " 4 x " speed PCI slots.

PCI is a 32- or 64-bit I/O bus operating at 33 or 66 MHz and 3.3 V or 5 V signalling levels. PCI slots are gradually replacing EISA slots on PA-RISC workstations.

PCI cards may be $5 \mathrm{~V}, 3.3 \mathrm{~V}$ or both ("Universal"). Universal cards are common, but universal slots are impractical. Most extant PCI cards are either universal or 5 V . 3.3 V -only cards are rare.

No PA-RISC workstations have PMC (PCI Mezzanine) slots, although Sand X-Class may.PCI Card/Slot Compatibility

The slot types shown in gray (PCI-32 2 x 3.3 v , PCI-64 1x 3.3v and PCI-64 5v) are shown for reference and are not supplied on PA-RISC workstations.

PCI Slot/Card Compatibility

|  | PCI-32 Slot Type |  |  | PCI-64 Slot Type |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PCI Card Type | 3.3 v | 5v | " $2 x$ "(3.3v) | 3.3 v | 5 v | " $4 x^{\prime \prime}$ (3.3v) |
| PCI-32 5v | No | Yes | No | No | Yes | No |
| PCI-32 Universal | Yes | Yes | Yes ${ }^{156}$ | Yes | Yes | Yes ${ }^{156}$ |
| PCI-32 "2x" | Yes ${ }^{157}$ | No | Yes | Yes ${ }^{157}$ | No | Yes |
| PCI-64 5v | No | Yes ${ }^{158}$ | No | No | Yes | No |
| PCI-64 Universal | Yes ${ }^{158}$ | Yes | Yes ${ }^{158}$ | Yes | Yes | Yes ${ }^{156}$ |
| PCI-64 " 4 x " | Yes ${ }^{158}$ | Yes ${ }^{158}$ | Yes ${ }^{158}$ | Yes ${ }^{157}$ | Yes ${ }^{157}$ | Yes |

156. Using a standard ( 1 x ) speed card in a 2 x or 4 x slot limits the speed of all cards to 1 x on all slots connected to the same PCI bridge or bus controller.
157. Using a high ( 2 x or 4 x ) speed card in a 1 x slot limits the speed of that individual card to 1 x .
158. Using a 64 -bit card in a 32 -bit slot limits that individual card to 32-bit transfers, potentially reducing its performance by $50 \%$ (plus another $50 \%$ if the card is $66 \mathrm{MHz}(4 \mathrm{x})$ and the slot is a $33 \mathrm{MHz}(1 \mathrm{x})$ speed slot.

## PCI Card Support

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an
operating system, recovery system or diagnostic kernel from or through the device, or use that device as
console. "Transp." means that the device is transparent to software.

## PCI Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A3738A | 100Base-TX | PCI-32 | $\Rightarrow$ | Unsupported. V-Class and SPP2200 only | $\Leftarrow$ |
| HP A3739A | FDDI, SC-MIC, dual-attach | PCI-32 |  | Unsupported. V-Class only | 11.0 |
| HP A3740A | Fiber channel, MM SC | PCI-32, 5V |  | V-Class | 11.0 |
| HP A4552A | HP VISUALIZE-FX2 | PCI-64, Univ, 4x | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4553A | HP VISUALIZE-FX4 | PCI-64, Univ, 4x | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4554A | HP VISUALIZE-FX6 | $\begin{aligned} & \hline \text { PCI-64, Univ, 4x } \\ & \text { PCI-32, Univ, 1x } \end{aligned}$ | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP A4705A | UltraSCSI card, internal devices |  | N/A | S- and X-Class device | Unsup. |
| HP A4706A | UltraSCSI card, external devices |  | N/A | S- and X-Class device | Unsup. |

## PCI Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A4712A | 802.3 EtherNet card |  | N/A | S- and X-Class device | Unsup. |
| HP A4713A | 100 Mbps Fibre Optic i/f |  | N/A | S- and X-Class device | Unsup. |
| HP A4714A | HIPPI card |  | N/A | S- and X-Class device | Unsup. |
| HP A4715A | ATM card |  | N/A | S- and X-Class device | Unsup. |
| HP A4800A | fwdSCSI card |  |  | V-Class |  |
| HP A4926A | 1000Base-SX Gigabit Ethernet adaptor |  | N/A | V-Class | 10.20-11.0 |
| HP A4930A | 802.5 Token Ring | PCI | N/A | V-Class | 11.0 |
| HP A4974A | fwsSCSI card | PCI-32, Univ. |  | All PCI Models | 10.20-11.0 |
| HP A4975A | Cu FibreChannel | PCI-32, Univ. |  | All PCI Models | 10.20-11.0 |
| HP A4976A | fwdSCSI Interface | PCI-32, Univ. |  | All PCI Models | 10.20-11.0 |
| HP A4979A | VISUALIZE-EG/PMC | PMC | $\Rightarrow$ | See Graphics Video section. | $\Leftarrow$ |
| HP A4990A | FibreChannel | PCI-32, Univ. |  | All PCI Models | 10.20-11.0 |
| HP A4999A | uwsSCSI interface | $\mathrm{PCl}-32$, Univ. |  | All PCI Models | 10.20-11.0 |
| HP B5509A $/$ BA | 100BaseTX / 10BaseT (RJ45) | PCI-32, Univ, 1 x | No | All PCI Models | 10.20-11.0 |
| HP C1578A | SCSI-II Host Adaptor (Adaptec AHA2940C) | PCI-32, 5v, 1x | N/A |  | No |
| HP C3610A | SCSI-II Dual-Channel Disk Array Controller | PCI-32, 5v, 1x | N/A |  | No |
| HP C5207A | 100BaseT for Envizex |  | N/A | Unsupported | No driver |
| HP C5209A | 100BaseT for Envizex |  | N/A | Unsupported | No driver |
| HP A4919A | HyperFabric 160 MB/sec. adapter | PCl | N/A | V-Class | 10.20-11.0 |
| HP D4943A | HP NetRAID uwsSCSI controller |  | N/A | Unsupported | No driver |
| HP D4992A | NetRAID uwsSCSI controller | PCl | N/A | Unsupported | No driver |
| HP D5013A | NetServer 10/100TX PCI LAN | PCl | N/A | Unsupported | No driver |
| HP D5025A | Wide Ultra SCSI host adaptor | PCI-32 | N/A | Unsupported. Netserver | No driver |
| HP D5429A | 10BaseT LAN (aka D5430A) | PCI-32 | N/A | Unsupported | No driver |
| HP D5955A | NetRAID 3si | PCl | N/A | Unsupported | No driver |
| HP D6500A | HP 10/100-TX 3COM NIC | PCI | N/A | Unsupported | No driver |
| HP D6507A | HP 10/100 Intel Ether Express Pro/100+ | PCI-32 | N/A | Unsupported | No driver |
| HP E8491A \#001 | IEEE-1394 PC Link | PCI-32 | NOP | Unsupported | No driver |
| HP G1480/82A | 802.3 10BaseT and 10Base2 adaptor | PCI-32, 5v, 1x | N/A |  | No |
| HP J2585A | DeskDirect 10BaseT/100VG LAN i/f | PCI-32, 5v, 1x | N/A |  | No |
| HP J2585B | DeskDirect 10BaseT/100VG LAN i/f | PCI-32, 5v, 1x | Unsup. | All 5v PCI Models | 10.20+ACE |
| HP J2970A ${ }^{\circ}$ | DeskDirect 10BaseT LAN combo I/F | PCI-32, 5v | Unsup. | Unsup. | Unsup. |
| HP J2973A ${ }^{\circ}$ | DeskDirect 10BaseT LAN Interface | PCI-32, 5v | Unsup. | Unsup. | Unsup. |
| HP J3171A ${ }^{\circ}$ | DeskDirect 10BaseT/100Tx LAN i/f | $\mathrm{PCI}-32,5 \mathrm{v}$ | Unsup. | Unsup. | Unsup. |
| HP J3242A | DeskDirect EL-10, 10BaseT, AUI, BNC | PCl | Unsup. | Unsup. | Unsup. |
| HP J3525A | Dual-port Synchronous Adaptor | PCI-32, Univ., 1x | NOP | B-Class, C-Class | 10.20 |
| HP J3526A | 4-port synchronous adaptor (X. 25 or Frame Relay, depending on software) | $\mathrm{PCl}-32$, Univ. |  | B-Class, C-Class | 10.20 |
| HP J3575A | ATM 622 | PCl |  |  | 10.20-11.0 |
| HP J3593A | PCI Mux 64-port | PCI-32 |  | V-Class device | 10.20-11.0 |
| HP J3557A | ATM/155, SONET/SDH, OC3c/MMF | PCI-32 | N/A | V-Class device | 10.20-11.0 |
| HP Z7330A | T1/E1 ACC, 4 channel | PCI-32, 5V | N/A | B-Class special product | 10.20 |

## PCI Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP Z7332A | T1/E1 ACC | PCI-32, 5 V | N/A | B-Class special product | 10.20 |
| HP Z7749A | Dual-port LAN card | PCl-32, 5V | N/A | B-Class special product | 10.20 |
| HP 83450A | HP-IB interface | PCI | N/A | Unsupported |  |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Bit3 Computer Corporation, Minneapolis MN, +01 612-881-6955 |  | http://www.bit3.com |  |  |  |
| 2101 | PCI-PCI Expansion Unit, 7 slot | PCI-5 |  | See Backplanes, Slots/Adaptors \& Card Cages section |  |
| Test and Measurement Systems, Loveland CO, 970-669-6553 |  | http://www.tamsinc.com/ |  |  |  |
| TAMS 60488 | HP-IB interface | PCI-32, 1x, Univ. | N/A | All PCI Models | $\begin{aligned} & 9.01-9.07 \perp 10.01- \\ & 10.20 \end{aligned}$ |
| TAMS 70622 | GPIO Interface | PCI-32, 1x, Univ. | N/A | All PCI Models | $\begin{aligned} & 9.01-9.07 \perp 10.01- \\ & 10.20 \end{aligned}$ |

## SGC (and DIO-II) Cards

Standard SGC cards have a DIO-II form factor. SGC-E cards are EISA form factor.

Some DIO-II cards are also listed. Although no DIO-II cards are supported, they have the same approximate form factor as SGC, and support questions may arise.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the device, or use that device as console. "Transp." means that the device is transparent to software.

## SGC (and DIO-II) Cards

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1096A ${ }^{\circ}$ | Monochrome VRX | DIO-II | NA | No DIO slots | NA |
| HP A1416A ${ }^{\circ}$ | Color VRX | DIO-II | NA | No DIO slots | NA |
| HP A1439A | CRX-24 interface | SGC | Any | See Graphics Video section |  |
| HP A1454A | 24-bit Z Buffer | CRX-24 | NOP | See Graphics Video section |  |
| HP A1471A ${ }^{\text {0159 }}$ | s700 Personal VRX i/f | SGC | Any | See Graphics Video section |  |
| HP A1472A ${ }^{\text {0159 }}$ | s700 Turbo VRX i/f | SGC | Any | See Graphics Video section |  |
| HP A1659A ${ }^{\circ}$ | CRX video card, 1280¥1024¥8 | SGC | Any | See Graphics Video section |  |
| HP A1924A ${ }^{\text {0159, } 160}$ | GRX video card, 1280¥1024¥1 | SGC | Any | See Graphics Video section |  |
| HP A1940A ${ }^{\text {0159 }}$ | EVRX Color card 1024¥768 | SGC | Unsup. | Unsupported | Unsup. |
| HP A1956A ${ }^{\circ}$ | EVRX Color card 1280¥1024 | SGC | Unsup. | Unsupported | Unsup. |
| HP A1986A | EISA slot for Model 720 | SGC |  | Model 720 (Required for upgrade to 730.) | 8.05-10.10 |
| HP A2089-66530 | Video/Audio for 715s/t | SGC | Any | Upgraded Models 433s/t only | 8.05 |
| HP A2091-66580 | CRX48Z Interface | SGC |  | See Graphics Video section |  |
| HP A2262A | Dual CRX Graphics | SGC | Any | See Graphics Video section |  |
| HP A2269A ${ }^{\circ}$ | Dual or dual-to-quad CRX Upgrade | SGC | Any | See Graphics Video section |  |
| HP A2270A | CRX-24 or Dual CRX-24 Upgrade | SGC | Any | See Graphics Video section |  |
| HP A2271A | CRX to CRX-24 Upgrade | SGC | Any | See Graphics Video section |  |
| HP A2272A | PVRX to CRX-24 Upgrade | SGC | Any | See Graphics Video section |  |
| HP A2666A | CRX-24Z to CRX48Z | SGC | Any | See Graphics Video section |  |
| HP A2667A | PVRX to CRX-48Z Upgrade | SGC |  | See Graphics Video section |  |
| HP A2673A | CRX-24 interface | SGC |  | See Graphics Video section |  |
| HP A2674A | CRX-24Z upgrade | A2673A |  | See Graphics Video section |  |
| HP J2069A ${ }^{\text {o }}$ | HIPPI (High Performance Parallel) Link | SGC ${ }^{160}$ | NOP | Models 720, 730, 735, 735/125, 755/ \| [all] | 9.03-10.01 |
| HP 98556A ${ }^{\circ}$ | CHX Accelerator | DIO-II | NA | Incompatible | NA |
| HP 98768A | CRX Upgrade Kit | SGC | Any | See Graphics Video section |  |

## SGC Card Notes:

159. Product number for reference only.

Device not sold separately.
160. Only Models 750 and 755 have a spare SGC slot. All other supporting SGC models must remove graphics
card and use a terminal as console. Model 715s not supported. Incompatible with daughter FDDI on 755.

## Selected VME and VXI Cards

Test \& measurement VME and VXI cards, for use with the 740-series SPUs, in general are not listed, as they are beyond the scope of this document.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the
device, or use that device as console. "Transp." means that the device is transparent to software.

Note: The HP PA-RISC Device I/O Library [DIL] is not fully implemented on PA-RISC Workstation HP-UX. In particular HP-IB support is limited to simple (non-AMIGO, non-CIPER) I/O for printers and plotters, and only via the 25560A EISA interface.

A Standard Instrument Control Library [SICL, HP E2091D, see Glossary] is available but it does not support non-instrument computer peripherals, and supports only the E2070A/B, E2071A ISA HP-IB and E2074A ISA GPIO cards, and does not support the 25560A EISA HP-IB interface.

An HP-IB connection is also available via the E2050A external LAN adaptor (see Networking Devices section).

Selected VME and VXI Cards

| Vendor\& Product <br> Number | Abbreviated Product Description | Type | Min. Boot <br> ROM | Hardware Qualification and <br> Support | HP-UX Support |
| :--- | :--- | :--- | :--- | :--- | :--- |

## VME/VXI Notes:

161. See SICL in Glossary for detailed support information.

## Miscellaneous Cards and I/O Devices

This table lists devices which are either often confused with I/O cards, or are functionally similar to I/O cards.

See also the Processor-Specific Cards section on page 129.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or diagnostic kernel from or through the device, or use that device as console.
"Transp." means that the device is transparent to software.

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

Miscellaneous Cards \& I/O Devices

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A1450/51A | Add std.spd HP-IB | s400 | N/A | Incompatible. Use E2050A, E2070x/B or E2071x | $\Leftarrow$ |
| HP A2229BA | MPower interface kit for ScanJet-Ilcx, 3c and -4c. Includes LD50BL to DB25P mcSCSI cable. | mcSCSI | NOP | Cable and DB25M terminator only. Requires available SCSI address and LDBL connector on upstream device or SPU. | 9.01-9.07 $\perp 10.01-10.10$ |
| HP A4248A | Video Export Board | Daughter |  | See Graphics Video section | $\Leftarrow$ |
| HP A4556A | Video Export (NTSC, PAL) card for VISUALIZE-FX. | $\Rightarrow$ | $\Rightarrow$ | See Graphics Video section | 10.20+ACE |
| HP A4559A | Texture Map Accelerator for VISUAL-IZE-FX4 | $\Rightarrow$ | $\Rightarrow$ | See Graphics Video section | 10.20+ACE |
| HP A4625A | Hi-Res kit | VRAM | $\Rightarrow$ | See Graphics Video section | $\Leftarrow$ |
| HP J2460A | ISDN Basic Rate Interface | nsSCSI | $\Rightarrow$ | See Networking Devices section | $\Leftarrow$ |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| Central Data, +1 (217) 359-8010 |  | http://www.cd.com/ |  |  |  |
| <various> | RS-232C multiplexers | nsSCSI |  | See Networking Devices section. |  |

## Miscellaneous Devices

This tables lists all device which do not fit into any of the major categories, such as AC power accessories, racks, and mechanical switches.

The "Min. Boot ROM" column indicates the minimum revision of PDC/ IODC ROM code required to boot an operating system, recovery system or
diagnostic kernel from or through the device, or use that device as console. "Transp." means that the device is transparent to software.

## I/O Converters, Adaptors, Extenders and Switches

This table includes devices not generally used for Local or Wide Area Networking. See the Networking

Devices section for LAN and WAN devices (including some fibre channel devices).

For information on SCSI abbreviations, see "SCSI Notation" on page 127.

Misc: Converters, Adaptors, Extenders \& Switches

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX <br> Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A3308A | FC-SCSI Mux Fibre Channel multiplexer, desktop | FC | No | K-Class | 10.20 |
| HP A3511A/AZ | FC-SCSI Mux Fibre Channel multiplexer, rackmount | FC | No | K-Class | 10.20 |
| HP C1740A ${ }^{\circ}$ | LaserJet FAX modem adaptor | RS232(2), Par. | NA | Unsupported | Unsup. |
| HP CEDT1002 | nsSCSI to parallel converter | nsSCSI | NOP |  |  |
| HP CURR-FSO2 ${ }^{\circ}$ | Isolated RS-232C line driver | RS232 | Unsup. | Never supported | Unsup. |
| HP C4109A | Serial-to-Parallel converter for LaserJet 6L and 6P | RS232 | NOP | Unsupported | Unsup. |
| HP C4316A | fwdSCSI to fwsSCSI converter | fwdSCSI |  |  |  |
| HP D4990A | HP Cluster SCSI Extender, rackable IU | uwsSCSI, lvdSCSI | Unsup. | Unsupported. NetServer product. | Unsup. |
| HP D5957A | HP Cluster Adaptor lactive terminator) |  | N/A | Unsupported. NetServer product. | Unsup. |
| HP E2050A | LAN to HP-IB controller | 802.3 | NOP | See Networking Devices section |  |
| HP J1460A ${ }^{\circ}$ | Console switch | 2xPS/2, Dsub15 |  | See Human Interface Devices section |  |
| HP J1493/97A | Console switch | 2xPS/2, Dsub15 |  | See Human Interface Devices section |  |
| HP 26075A ${ }^{\circ 0}$ | ABC Switch | HP-IB | NOP | Formerly supported: All PA-RISC 1.0 Models | Transp. |
| HP 28643A | nsSCSI Extender | nsSCSI | NOP | K-Class | Transp. |
|  | HP-IB Extenders |  |  |  |  |
| HP 37201A ${ }^{\circ}$ | Serial/twisted-pair | HP-IB | NOP | Unsupported | Unsup. |
| HP 37204A | Coax/Fibre Optic | HP-IB | NOP | Unsupported | Transp. |
| HP 82169A ${ }^{\circ}$ | HP-IL Converter | HP-IB | NOP | Never supported | Unsup. |
| HP 921785 ${ }^{\circ}$ | ABC switch | RS232 | Transp. | Unsupported | Transp. |
| HP 92203 ${ }^{\text {J/K }}$ | HP-IB to Centronics converter | HP-IB, Par. | Unsup. | Unsupported | Unsup. |
| HP 92205E ${ }^{\circ}$ | ABC switch | RS232 | Transp. | Unsupported | Transp. |
| HP 92205F ${ }^{\circ}$ | Dual ABC switch | RS232 | Transp. | Unsupported | Transp. |
| HP 92205Y ${ }^{\circ}$ | ABC switch | HP-IB | NOP | Unsupported | Transp. |
| HP-Apollo K1015 ${ }^{\circ}$ | Convert 13 port | 25-pin | NA | See K2292 | NA |
| HP-Apollo K2292 | Convert 13 port | 25-pin | NA | Models 710e, 715s/t only | Transp. |

Misc: Converters, Adaptors, Extenders \& Switches

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX <br> Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| AEON Communications, +44(0) 1425472472 |  |  | http:// |  |  |
| SD4 | SCSI Converter | fnsSCSI Û <br> fndSCSI |  | Vendor: HP DDS drives |  |
| Black Box, (412) 746-5500 |  | http://www.blackbox.com/ |  |  |  |
| SW700 Series | ServSwitch keyboard/mouse/monitor switches | $\begin{aligned} & \text { 2xPS/2, } \\ & \text { Dsubl5 } \end{aligned}$ |  | See Human Interface Devices section |  |
| Rose Electronics, (800) 333-9343 |  | http://www.rosel.com/ |  |  |  |
| SV Series | ServeView keyboard/mouse/monitor switches | $\begin{aligned} & \text { 2xPS/2, } \\ & \text { Dsubl5 } \end{aligned}$ |  | See Human Interface Devices section |  |

## Racks and Cabinets

See the Rack Solutions Catalog catalog at URL:
http://www.tmo.hp.com/tmo/catalogs/RSCtoc.html
for more information about HP racks and cabinets.

Misc: Racks and Cabinets

| Vendor\& Product Number | Abbreviated Product Description | Hardware Qualification and Support |
| :---: | :---: | :---: |
| HP A1896A | 1.1m EIA-19 rack |  |
| HP A1987A | 1.6m EIA-19 rack | EPS20, K-Class, PowerTrust UPS Models |
| HP A4160A | 1.6m 735CL/MPS10 rack | Model 735 [/all] |
| HP C2785A, HP C2786A | 1.1m EIA-19 rack 1.6m EIA-19 rack | Peripherals C225xB/HA C243xR, C2439JA, C2440JA, C246xR, C302xR, J2060A, J2062A, J2070A, 2340A, 2345A, 7979x, 7980x |
| HP C2977B |  | Peripherals C2968A, C2969A, C2984A, C2995A, C2996A |
| HP C4317A, C4317RZ | 2U Rack Enclosure | All Models supporting one or more internal devices. |
| HP C4318A $/$ /B, C4318RZ | 3 U Rack Enclosure | All Models supporting one or more internal devices. |
| HP C6212A | 1.6 m rack | A4820A, A4821A |
| HP E3660A, HP E3661A, HP E3662A | 1.1m EIA-19 rack 1.6m EIA-19 rack 2.0m EIA19 rack | Models 742i (in VME cage), 7431 (in VME cage), v743 (in VXI cage), 745 [/alll, 747 //alll, 748 [/all] |
| HP E3905A | 1.32 m rack |  |
| HP E5920A | .72m EIA rack |  |
| HP J1500A HP J1501A HP J1502A | $\begin{array}{\|l} \hline 2.0 \mathrm{~m}, 41 \mathrm{U} \\ 1.6 \mathrm{~m}, 33 \mathrm{U} \\ 1.25 \mathrm{~m}, 25 \mathrm{U} \end{array}$ |  |
| HP 46298A ${ }^{\circ}$ | .72m rack |  |

## Power Management

All HP PowerWise UPS models were discontinued on 1997/04/01. All support for these models was transferred to American Power Conversion (APC; see CHV section for URL). The PowerTrust product line was not affect by this transition.

Except on K-Class, HP-UX support for power management devices is provided by the UPS supplier.

## Misc: Power Management

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| HP A2941A | PowerTrust 600 UPS, 600VA | RS232 | NA |  |  |
| $\begin{aligned} & \hline \text { HP A2994A } \\ & \text { HP A2996A } \end{aligned}$ | PowerTrust 1300 UPS, 1300VA | RS232 | NA |  |  |
| HP A2997A | PowerTrust UPS, 1.8KVA | RS232 | NA | EPS20, K-Class | 10.01-10.20 |
| HP A2998A | PowerTrust UPS, 3.0KVA | RS232 | NA | K-Class | 10.20 |
| HP C4275 ${ }^{\circ} /$ /B | PowerWise 1000 UPS, 1000VA 700W, 120 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4276 ${ }^{\circ} /{ }^{\text {/ }}$ | PowerWise 2100 UPS, 2100VA 1500W, 120 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4277*A/B | PowerWise 1000 UPS, 1000VA 700W, 230 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4278 ${ }^{\circ} /{ }^{\text {/B }}$ | PowerWise 2100 UPS, 2100VA 1500W, 230 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4520A ${ }^{\circ}$ | SNMP 10BaseT card for C4275/76A | 802.3 | NA | All Models | w/C4627A ${ }^{\circ}$ software |
| HP C4620A ${ }^{\circ}$ | SNMP 10BaseT card for PowerWise UPS units | 802.3 | NA | All Models | w/C4627B software |
| HP C4692A ${ }^{\circ}$ | SNMP 10BaseT and 10Base2 card for PowerWise UPS units | 802.3 | NA | All Models | w/C4627A/B software |
| HP C4775 ${ }^{\circ} / \mathrm{B}$ | PowerWise L600 UPS, 600VA 400W, 120 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4776 ${ }^{\circ}$ / ${ }^{\text {B }}$ | PowerWise L900 UPS, 900VA 600W, 120 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4777 ${ }^{\circ}$ A/B | PowerWise L600 UPS, 600VA 400W, 230 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C4778 ${ }^{\circ} /{ }^{\text {/B }}$ | PowerWise L900 UPS, 900VA 600W, 230 Vac | 802.3 | NA | All Models | w/C4627B software |
| HP C5225B ${ }^{\circ}$ | PowerWise L1250 UPS, 1250 VA 850W |  |  |  |  |
| HP GSMCS20A | Merlin Gerin 2000VA 10 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMCS30A | Merlin Gerin 3000VA 10 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMC115C | Merlin Gerin 5000VA 30 min . 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMC310B | Merlin Gerin 10KVA 10 min . 230 V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMC310C | Merlin Gerin 10KVA 30 min . 230 V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMC317B | Merlin Gerin 7500VA 10 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEV05A | Merlin Gerin 450VA 5 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEV08A | Merlin Gerin 750VA 6 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEV13A | Merlin Gerin 1250VA 6 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEX15A/B | Merlin Gerin 1500VA 13 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEX20A/B | Merlin Gerin 2000VA 9 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEX30A/B | Merlin Gerin 3000VA 6 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP GSMEX40A/B | Merlin Gerin 7000VA 7 min. 230V | 802.3 | NA | LPO: All Models | w/B415xA UPS mgr |
| HP Z7611A | Dual redundant AC power supply |  |  | TelePACE |  |
| HP Z7615A | Dual redundant DC power supply | - | - | TelePACE |  |

Misc: Power Management

| Vendor\& Product Number | Abbreviated Product Description | Type | Min. Boot ROM | Hardware Qualification and Support | HP-UX Support |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Complementary Hardware Vendors |  | Note: Listing of CHV devices implies no endorsement or support of them by HP. All hardware and software support claims are drawn from information published by the CHV device supplier. |  |  |  |
| APC, (401) 789-5735 |  | http://www.apcc.com/index2.htm |  |  |  |
| APCC-600UX ${ }^{\circ}$ APCC-1250UX ${ }^{\circ}$ | 600VA and 1.25KVA UPS | 802.3 | NA | Vendor supported |  |
| Deltec |  | http:// |  |  |  |
| $\begin{aligned} & \hline \text { DELT-202x }{ }^{\circ} \\ & \text { DELT-203x } \end{aligned}$ | 2.4 and 3.6 KVA UPS | 802.3 | NA | HP-UX software supported by Deltec |  |

## Glossary

$\square$ (blank) in a table box indicates that information was not available at time of publication.
${ }^{\circ}$ (discontinued) ${ }^{\circ}$ The degree ${ }^{\circ}$ superscript denotes a product which is no longer supplied, and is listed for reference purposes. Discontinued products maintain their system support status during their individual product support life. Discontinued products may be available for purchase from HP's Finance and Remarketing Division or from third-party equipment brokers and re-sellers.

## ${ }^{\circ}$ <beyond support life> ${ }^{\circ}$

Unsupported per se. The double degree $\left(^{\circ \circ}\right)$ symbols denotes a product which is not only no longer supplied (new or remarketed) but is also beyond its guaranteed minimum support life. Support for such devices is provided on a "best effort" time \& material basis, if available at all. Once beyond support life, stand-alone and system support under support contract is no longer available. The matrix does note if the device was formerly supported.
$\perp$ <support coverage break> $\perp$ The inverted "T" $\perp$ symbol denotes a gap in software support for the device, for example 8.05-9.07 $\perp 10.01-10.20$. Any release numbers in the gap do not support the device.
$\nabla<$ final support version $>\nabla$ The $\operatorname{grad} \nabla$ symbol denotes that the highest software revision shown is the final version that supports the device, for example 9.01-10.20
8.05-10.20 Denotes the earliest (e.g. 8.05) and latest (e.g 10.20) versions of PA-RISC Workstation software which might support the device. Note: many devices show software support, but no hardware support. This means that the software is present in the PA-RISC Workstation release, and may imply that this same software supports the device on a Server (Series 800) system. The software revision is listed as a convenience to those customers who already own the device, and wish to use it at their own risk on the PARISC Workstation.
11.0 Supported on both the 32-bit and 64-bit configurations of HP-UX 11.0.
11.0/32 Supported only on the 32bit configuration of HP-UX 11.0.

CPO HP's Computer Peripherals Group provides HP-UX support for this device. See "HP Entity Support Contacts" on page 5. for further information.

EISA Extended ISA. A 32-bit extension to the ISA standard. EISA slots can accept ISA cards.
fwdSCSI - Fast Wide SCSI (16-bit differential, 10 MHz )

GIO General I/O - a GSC slot in a Model 712 requiring a specific card form factor.

HSC High Speed system Connect A version of GSC used in K-Class workstations and servers. HSC cards are usually the same form factor as GSC-M, but have a different bulkhead plate.

GSC Graphics System Connect - A very high performance HP proprietary system bus used primarily for graphics cards. Replaced "SGC" beginning with systems introduced in 1994. "E-GSC", so simply "GSC", cards are EISA form factor. "GSC-M" and HSC cards are VME Mezzanine form factor. "GIO" cards are a form factor specific to the Model 712.
HP-FL ${ }^{\circ}$ Hewlett-Packard Fibre Link - a 5 Mbyte/sec (max.) duplex fiber-optic interface for external mass storage devices. Replaced by SCSI and FC-AL.
HP-IB Hewlett-Packard Interface Bus - a 1 Mbyte/sec (max.) 8-bit, 24pin, parallel duplex bus. HP's implementation of IEEE-488 1978. Still in use for instrumentation and measurement devices, but replaced as a peripheral interface by SCSI, IEEE1294 and LAN.

IEEE-1284 A formal standard version of the traditional "Centronics" 25- or 36-pin parallel interface which adds optional duplex modes. PA-RISC workstation parallel ports do not presently support IEEE-1284 enhanced modes.
IEEE-1394 An industry standard version of the "FireWire" 6-pin tieredstar 100/200/400 Mbit/sec bus developed by Apple Computer. HP does not presently offer IEEE-1396 ports for PA-RISC workstations.
Inves. or "Under Investigation": HP desires to support this device or feature, but such support is contingent on resolution of outstanding technical issues.
ISA Industry Standard Architecture. The 8 - and 16 -bit internal bus and plug-in card standard derived from the IBM PC-AT design. EISA slots can accept ISA cards.

ISG HP's Information Storage Group provides HP-UX support for this device. See "HP Entity Support Contacts" on page 5. for further information.

JetAdmin HP's networked peripheral management software. Aold as media product $\mathrm{J} 2559 \mathrm{E}^{\circ}$ (also formerly J2374A/B/C), and also vailable at no charge from HP's ftp site, url: http:// www.hp.com:80/cposupport/ indexes $1 /$ wjwinnts.html
lvdSCSI - 16-bit "wide" low voltage differential SCSI.

NA "not applicable".
ndSCSI - 8-bit differential SCSI, 10 MHz

No or "Does not function" Indicates that the device is not supported by the mainframe or operating system shown in that column and does not work. "Does not function" in a hardware column indicates that the device has no interface or cable. "Does not function" in a software column indicates that the device either has no supporting software or cannot perform all functions required for support.

NOP No Operation. The device is ignored by the boot ROM or driver.
nsSCSI - 8-bit "narrow" single-ended SCSI (5 or 10 MHz )
PCG HP's Personal Computer Group provides HP-UX support for this device. See "HP Entity Support Contacts" on page 5. for further information.

Planned Testing was in progress at time of publication and HP plans to support the configuration indicated by that entry. Contact your HP Sales Representative for current information.

Qualified (under Hardware Support) The peripheral is not formally supported by Hewlett-Packard, but that a representative sample was tested for EMI/RFI and functionality. An entry of "Vendor:" or "HP-ABC:"
under "Hardware Support" means that the peripheral is supported on the PA-RISC Workstation by the peripheral vendor or by the division of HP that supplies the device. "Qualified" peripherals may or may not be distributed by Hewlett-Packard.

SCSI Small Computer Systems Interface - A medium performance 8or 16 -bit bus for internal and external computer peripherals. There are three major variations of SCSI (nsSCSI, ndSCSI and fwdSCSI), depending on bus width, line driver electronics and clock rate. There are also several different connector styles in use, a topic beyond the scope of this document.

A device of any given variety can only be connected to a bus of the same variety. Damage may result from interconnections of se/df (and narrow/wide without appropriate cables). PA-RISC Workstation "nsSCSI" busses are rated as "fast" when connected only to internal devices.

SGC System Graphics Connect - A very high performance HP proprietary system bus used primarily for graphics cards. Replaced by "GSC" beginning with systems introduced in 1994. Standard SGC cards are HP

DIO-II form factor. "E-SGC" cards are EISA form factor.

SICL Standard Instrument Control Library.

SICL support for devices on HP-UX release 8.x requires SICL product E2019C ${ }^{\circ}$, no longer supplied.

SICL support for devices on HP-UX releases $9 . \mathrm{x}$ and 10.01 requires current SICL product E2091D.
SICL support for 10.10 is not planned. The next scheduled release, product E2091E, supports 10.20
Use of SCPI (Standard Commands for Programmable Instruments) devices may also require the E1582B run-time tool, or the E1572B C-SCPI Development tool and a C compiler.

Supported (under "Hardware Support") The peripheral complies with at least FCC Class A and at least VDE/ FTZ Level A in a system configuration. These classifications refer to the electromagnetic interference (EMI/ RFI) properties of the system. It also means that configuration documentation, and a diagnostic or exerciser program exists for that mainframe and HP offers on-site service of a system in this configuration.
T.B.D. To Be Determined

TSIO TeleShare I/O - a GSC-subset slot in a Model 712 that supports only the A4012AA TeleShare card.

Unsupported "Unsup." and "Uns." the device is untested and no testing is planned. They are, however, "not known to not work" (otherwise they would be "No"). These devices should not be purchased for use with the mainframe/operating system under which the "Unsupported" appears.

USB Universal Serial Bus - a 4-wire tiered-star $12 \mathrm{Mbit} / \mathrm{sec}$ bus developed by Intel. HP does not presently offer USB ports for PA-RISC workstations.
uwsSCSI - 16-bit "wide" single-ended Ultra SCSI.

Vendor: Although referenced or distributed by HP, this product is supported by the original equipment vendor, and not by HP.

## Appendix A: Product Illustrations

## B-Class Desktop Workstations

The B-Class is an active line of desktop single-processor workstations.

## B-Class Front View



B132L+, B180L Rear Panel
HD50 8-bit Single-ended SCSI
HD68 16-bit Ultra wide sin-


## B-Class Mass Storage Module



## B-Class Mass Storage Devices




Model B132Lplus and B180L I/O SlotsB-Class RAM


## C-Class Desktop Workstations

The C-Class is an active line of power desktop single-processor workstations.

C-Class Front View


Model C100 and C110 Rear Panel


Model C160L, C180 and C180-XP Rear Panel


Model C200 and C240 Rear PanelC-Class Storage Tray \& Components


C-Class Storage Tray Bays
CD-ROM or DDS.
5.25-inch Half-Height

External Bay.

1-inch high hard drive. 3.5-inch Low-Profile Internal Bay. Not available if a 1.6 " device is in bay A


Floppy or 1-inch high hard drive. 3.5-inch Low-Profile External Bay.

## RAM



C160L, C180, C200 and C240 RAM


Model C160L, C180 and C180-XP I/O Slots


Model C200 and C240 I/O SlotsC100, C110, C160

## EPS Enterprise Parallel Servers

EPS is an active line of rack-mount technical servers based on multiple K-Class SPUs.

## EPS Front View



EPS RAM and I/O Slots (see K-Class)

## EPS Rear Panel

## J-Class Deskside Workstations

The J-Class is an active line of desktop single- and dualprocessor deskside workstations.

## J-Class Front View



Model J200, J210, J210XC, J280 \& J282 Rear Panel


## J-Class Mass Storage



Model J2240 Rear Panel


Model J200, J210, J210XC, J280 and J282 I/O Slots (Card cage shown rotated $90^{\circ}$ right)


## Model J2240 I/O Slots



## J-Class RAM



## K-Class SMP Super Workstations

The K-Class is an active line of deskside single and multiprocessor SPUs. A few K-Class models are available in a workstation configuration (with integrated high-performance graphics).

K-Class Front Photo (All Models)


## K-Class Front Slots and Bays



K-Class Rear Slots and Bays


| 1. | HP-PB |
| :--- | :--- |
| 2. | Core I/O |

(see next figure)
3. HSC

Expansion
$4 . \quad$ Processor Bulkhead, rear
5. Power

Supply
6. AC

Power
7.

Rear fan access

K-Class Core I/O


K-Class HP-PB and HSC I/O Slots


## K-Class Storage



## K-Class RAM



## MPS10 (and 735CL)

The MPS10 (formerly named the 735 CL ) are discontinued rack-mount parallel technical servers based on the Model 735 SPU. The MPS10 was replaced by the EPS.

For individual SPU configuration information, see the Model 735 sections of this Appendix.

MPS10/735CL Front View


## MPS10 Rear Panels

## TelePACE

TelePACE is a rackable industrial workstation configured specifically for the telecommunications industry. It is a derivative of the Model 748, with the major differences being dual-redundant 48 Vdc power, 8 EISA slots (vs. 4) and 4 VME slots (vs. 8).

## TelePACE Front Photo



TelePACE Rear Panel

(see Model 748 Standard Tray)
TelePACE 8-Slot EISA Card Cage


TelePACE Processor Panel
(see Model 743 or 744)

## TelePACE Storage Tray

## Model 705 and 710

The Model 705 and 710 are discontinued single-processor desktop workstations. They provide no I/O slots.

Some Model 710 SPUs may have been upgraded from the MC68040-based Model 425e. This document refers to these upgraded systems as Model 710e, and it is physically indentical to a standard Model 710, except for using 425e RAM and storage devices.

## Model 705 and 710 Front View



## Model 705/710 Rear Panel

Model 710
(See Model 705)


Model 705/710 Mass Storage


Model 705/710 RAM Slots


## Model 712

The Model 712 is a current single-processor desktop workstation. The 712 provides a single general I/O slot, for which several 712-specific I/O cards are available, and a single TeleShare I/O slot.

Model 712 Front View


Model 712 Rear Panel


TeleShare I/O Slot
Model 712 I/O Slots
Optional VRAM

General I/O Slot

## Model 712 Storage



## Model 712/60 and 712/80 RAM Slots



## Model 712/100 RAM Slots



## Model 715s

## (Upgraded Model 425s or 433s)

The Model 715s is a single-processor deskside workstation upgraded from an MC68040-based Model 425s or 433s. The upgrade kit is discontinued. The 715 s is more similar to a Model 750 than to a standard (as-built) Model 715.

## Model 715s Front View



## Model 715s Rear Panel



Model 715s Storage


## Model 715s RAM



## Model 715t

## (Upgraded Model 425t or 433t)

The Model 715t is a single-processor deskside workstation upgraded from an MC68040-based Model 425t or 433t. The upgrade kit is discontinued. The Model 715t is not similar to any standard (as-built) Model 715. The closest standard Series 700 SPU would be the Model 730 .

## Model 715t Front View



Model 715t ISA Slot


Model 715t RAM


## Model 715t Storage



Models 715/33, 715/50, 715/75 (SGC-Based Models)

The SGC-based standard 715 Models are discontinued sin-gle-processor desktop workstations. They provided a single I/O slot that could be occupied by an EISA card or an EISA-form-factor SGC graphics card.

## Model 715 (SGC) Front View



## Model 715 (SGC) Rear Panel



## Model 715 (SGC) Storage

## Model 715 (SGC) I/O Slot

Use of an EISA card requires an A2804A adaptor kit. Use of either an EISA card or SGC (EISA FF) card occupies the sole bulkhead opening and prevents use of the other card

type.


## Model 715 (SGC) RAM



The GSC-based 715 Models are discontinued single-processor desktop workstations. All provided a single I/O slot that could be occupied by an EISA card or an EISA-formfactor GSC graphics card.

## Model 715 (GSC) Front View



## Model 715 (GSC) Rear Panel

The SMD-10 connector cables to an external A4022-62005 adaptor which provides HP-HIL and PS/2 ports.


## Model 715 (GSC) Storage



Model 715 (GSC) I/O Slot
Use of an EISA card requires an A2804A adaptor kit. Use of either an EISA card or GSC card occupies the sole bulkhead opening and prevents use of the other card type.


## Model 715 (GSC) RAM



## Models 720 and 730

The Model 720 and 730 are single-processor desktop workstations. They are discontinued and several product instances are now off support life.

## Model 720/730 Front View



Model 720/730 Rear Panel
The EISA slot is optional on the Model 720


Model 720/730 Storage


Model 720/730 I/O Slot


## Model 720/730 RAM



Models 725/50, 725/75
(SGC-Based Models)
The SGC-based 725 Models are discontinued single-processor desktop workstations.

Model 725 (SGC) Front View


Model 725 (SGC) Rear Panel


Model 725 (SGC) Storage


## Model 725 (SGC) RAM



Model 725 (SGC) I/O Slots


The 725/100 is a discontinued GSC-based single-processor desktop workstation.

## Model 725/100 Front View



Model 725/100 Rear Panel


Model 725/100 Storage


## Model 725/100 I/O Slots



## Model 725/100 RAM



## Model 730

(See Model 720)

## Model 735

The Model 735 is a discontinued single-processor desktop workstation. The SPU was also supplied as a processor node in the 735CL and MPS10 clusters.

## Model 735 Front View



## Model 735 Rear Panel and I/O Slot

HD50 (se) or HD68 (fwd) SCSI to/from


## Model 735 Storage

May be 8-bit single-ended SCSI or 16-bit fast wide differential SCSI


## Model 735CL

(See MPS10)

## Model 742i

The Model 742 i is a current VME-based single-processor, single-board computer. It has no graphics capability and requires a serial terminal or terminal emulator as console.

There is also a Model 742rt version of this product for use with the HP-RT operating system. The 742rt is not covered by this document.

Model 742i Photo


Model 735 RAM


## Model 742 i Panel



## Model 742i RAM



## Model 743i

The Model 743i is a current VME-based single-processor, single-board computer. It has built-in and optional GSC-M graphics capability.

There is also a Model 743rt version of this product for use with the HP-RT operating system. The 743rt is not covered by this document.

## Model 743i Processor Photo



Model 743i Daughter Cards and RAM


## Model 743i Multi-Slot Configurations



## Model V743

The Model V743 is a current VXI-based single-processor single-board computer. There is also a V743rt version of this product, which is not covered by this document.

## Model V743 Photo



## Model V743 Panel



## Model V743 Top View



## Model 744

The Model 743i is an active VME-based single-processor, single-board computer. It has built-in and optional GSC-M graphics capability.

There is also a Model 744rt version of this product for use with the HP-RT operating system. The 744rt is not covered by this document.

## Model 744 Photo



## Model 744 RAM (Single-Slot)



Model 744 RAM and Daughter Cards (Multi-Slot)


Model 743/744 PMC Bridge


Model 743/744 PMC Expander


## Model 745

The Model 745 is an active ${ }^{1}$, rackable, single-processor industrial computer.

## Model 745/132L Front View



Model 745/50-745/100 Front Photo


Model 745/132L Rear View


## Model 745/50 and 745/100 Rear Photo



1. Models 745/50 and 745/100 are discontinued.

## Model 745/132L Internal View



Model 745/132L Processor Panel
(see Model 744/132L)
Model 745/50, 745/100 and 747 Processor Panel


## Model 745/50 and 745/100 Storage

External bays may be oriented to provide access to devices on front or rear panels (but not both)


Model 745/50, $745 / 100$ and 747 RAM


## Model 747

The Model 747 is a discontinued, rackable, single-processor industrial computer. It offered VME, EISA and SGC slots.

## Model 747 Front Photo



Model 747 Rear Panel
See Model 745 for Processor Panel


## Model 747 Storage

External bays may be oriented to provide access to devices on front or rear panels (but not both)


Model 747 RAM
(See Model 745)

Model 747 Processor Panel
(See Model 745)

## Model 748

The Model 748 is an active, rackable, single-processor industrial computer, based on either the Model 743i or 744i single-board VME computer.

Model 748 Front View


## Model 748 Rear Photo



Model 748 Standard 8-bit Single-Ended (se) SCSI Storage Tray Components


Model 748 se Tray Device Locations


Model 748 Optional 16-bit Wide Differential (wd) and


Model 748 fwd Tray Device Locations


Model 748 4-Slot PCI (5v) Tray


Model 748 4-Slot EISA Tray


Model 748 Daughter Cards and RAM
(See Model 743 or 744)

## Model 750

The Model 750 is a discontinued single-processor deskside workstation. Some product instances are now off support life.

## Model 750 Front View



## Model 750 Rear Panel



## Model 750 Storage



## Model 750 RAM



## Model 755

The Model 755 is a discontinued single-processor deskside workstation.

## Model 755 Front View



Model 755 Rear Panel


## Model 755 Storage



## Model 755 RAM



## Appendix B: I/O Card Illustrations

This section describes the major types of I/O cards listed in this document. Not all card types are supported on PARISC Workstations.

Images are to-scale by view. Oblique views are shown at $33 \%$ of actual size, profile views at $25 \%$ and connectors at $38 \%$.

## DIO (Direct I/O)

Although no PA-RISC workstations support DIO, DIO-System or DIO-II cards, the latter two forms are sometimes confused with SGC (which is supported on older Series 700 systems).

DIO is a 16- or 32-bit bus used on HP 9000 Series 200, 300 and 400 systems. Some Series 400 Models (425e, 425s, 425t, $433 \mathrm{~s}, 433 \mathrm{t}$ ) were upgradeable to Series 700, but any DIO and DIO-II slots would have been converted to EISA and SGC slots, respectively. No PA-RISC workstations support and DIO cards.

## DIO(-I) Slot/Card Summary

| Slot Accepts Card Types | DIO |
| :--- | :--- |
| Cards May Be Used in Slots | DIO, DIO-II (with adaptor) |
| Data Width | 16 bits |
| Maximum Transfer Rate | 12 Mbytes/sec. |
| Signalling Voltage | 5 V |
| Card Connector | $100-$ pin (50x2) edge, male |
| Typical Card Length | 6.75 inches |
| Typical Card Width | 7.75 inches |
| Typical Card Height | 1.15 inches |
| Bulkhead Offset | Above card |

## DIO Card Connector


"Bulkhead Offset" is the position of the bulkhead with respect to the card as viewed from the exterior of the computer or card cage in the most common orientation.

## DIO Card Profile



DIO-II and DIO-System Card/Slot Summary

| DIO-System Slot Accepts Card Types | DIO-System, <br> DIO (w/adaptor) |
| :--- | :--- |
| DIO-II Slot Accepts Card Types | DIO-II, DIO-System, <br> DIO (w/adaptor) |
| DIO-System Cards May Be Used in <br> Slots | DIO-System, DIO-II |
| DIO-II Cards May Be Used In | DIO-II |
| Data Width | 16 bits (DIO-System) <br> 32 -bits (DIO-II) |
| Maximum Transfer Rate | 24 Mbytes/sec. |
| Signalling Voltage | 5 V |
| Card Connectors | $96-$-pin (32x3) male pin\&socket, <br> plus, on DIO-II: <br> $48-$-pin (16x3) female |
| Typical Card Length | 12.5 inches |
| Typical Card Width | 6.2 inches |
| Typical Card Height | 1.15 inches |
| Bulkhead Offset | Above card |

DIO-II and DIO-System cards are the same size as standard SGC cards. The primary obvious physical difference is the sex and pin count of the main connector, as well as the presence of the secondary 48-pin connector on DIO-II cards.

## DIO-System/II Connectors



## EIO (Enhanced I/O)

EIO, based on PCI 2.1, is a standard I/O card for many HP hardcopy peripheral devices, such as plotters, large format printers and workgroup laser and inkjet printers. EIO is replacing MIO.

EIO Slot/Card Summary

| Slot Accepts Card Types | EIO |
| :--- | :--- |
| Cards May Be Used in Slots | EIO |
| Data Width | 32 -bits |
| Maximum Transfer Rate | 133 Mbytes/sec |
| Signalling Voltage | 3.3 V |
| Card Connectors: | 48 -pin (16x3) pin\&socket, female |
| Typical Card Length | _inches |
| Typical Card Width | _inches |
| Typical Card Height | _-_ inches |
| Bulkhead Offset | Above card |

No PA-RISC workstations have EIO slots, but most EIO cards are supported when used for host connections between the peripheral and workstation.

## DIO-II Card Profile



## Typical EIO Card

(not to scale)


## EISA (Extended ISA)

EISA is a 32 -bit 8 MHz bus evolved from ISA. EISA slots are standard or optional on many PA-RISC workstations.

EISA Slot/Card Summary

| Slot Accepts Card Types | EISA, 16-bit ISA, 8-bit ISA |
| :--- | :--- |
| Cards May Be Used in Slots | EISA only |
| Data Width | 32 bits |
| Maximum Transfer Rate | 33 Mbytes/sec. |
| Signalling Voltage | 5 V |
| Card Connector | $200-$ pin (50x2x2) edge, male |
| Typical Card Length | 6.5 to 14 inches |
| Typical Card Width | 0.75 inches |
| Typical Card Height | 4.8 to 5.6 inches |
| Bulkhead Offset | Left of card (vertical slot) |

## EISA Host and Card Connectors

EISA connectors are normally brown in color. They are usually slightly deeper than ISA slots (to accommodate the second row of connector pads), but otherwise have the same length, width and major keying as 16 -bit ISA slots.


When an EISA slot is occupied by an EISA card, the bulkhead is obstructed for use by any GSC or SGC-EISA slot co-located on that bulkhead.


Shown: A2679A single-ended SCSI and J2156Aº FDDI.


EISA Card Profile


## GIO

## (See Model 712 at end of this Section)

## GSC (General System Connect)

GSC slots are supplied in two speeds (standard and " 2 x "), and a variety of form-factors. The standard form-factor is EISA-size. This section also lists the Mezzanine form-factor. See other sections for the "HSC" form-factor and the various 712 form-factors.

GSC-2x cards may be used in GSC-1x slots (at reduced performance). GSC-1x cards may be used in GSC-2x slots, but will reduce the performance of all slots on that bus controller.

## GSC Slot/Card Summary

| Slot Accepts Card Types | GSC (EISA form-factor) |
| :--- | :--- |
| Cards May Be Used in Slots | GSC (EISA form-factor) |
| Data Width | 32 bits |
| Maximum Transfer Rate | 142 or 250 (2x) Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connector | $100-$ pin (50x2) female EBBI |
| Typical Card Length | 11.5 to 14 inches |
| Typical Card Width | 0.75 inches |
| Typical Card Height | 4.8 to 5.6 inches |
| Bulkhead Offset | Left of card (vertical slot) |

GSC slots are normally co-located with an EISA and/or PCI-32 or PCI-64 slot.


## GSC-M (Mezzanine)

GSC Mezzanine cards are used primarily with the 740series of industrial workstations. With a different bulkhead (external connector plate), they are also used in HSC slots.

GSC-M Slot/Card Summary

| Slot Accepts Card Types | GSC-M |
| :--- | :--- |
| Cards May Be Used in Slots | GSC-M |
| Data Width | 32 bits |
| Maximum Transfer Rate | 142 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connector | $100-$ pin (50x2) male pin\&socket with <br> groundplane |
| Typical Card Length | 5.9 inches |
| Typical Card Width | 3.4 inches |
| Typical Card Height | 0.65 inches |
| Bulkhead Offset | Below card |

The GSC slot is provided by a riser card at the VMEbus end of the processor board.


The card and host connector color is usually white.
GSC-M Card Connector


Most GSC-M cards appear as illustrated below (the cards are mounted component side down on the mezzanine assembly of a 740-series processor board).


Rear Panel

VME Backplane
VME

Typical GSC-M Card Profile.


An exception to this form-factor are some high-end graphics video cards.


## HP-PB (HP Precision Bus)

(Also Known as NIO)
HP-PB Slot/Card Summary

| Slot Accepts Card Types | HP-PB of same or smaller form-fac- <br> tor |
| :--- | :--- |
| Cards May Be Used in Slots | HP-PB of same or larger form-fac- <br> tor |
| Data Width | 32 bits |
| Maximum Transfer Rate | 23 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connector | 96 -pin (32x3) female pin\&socket |
| Typical Card Length | 9.5 inches |
| Typical Card Width | 5.1 inches (single) <br> 10.3 inches (double) |
| Typical Card Height | 1.15 inches |
| Bulkhead Offset | Above card |

## Single HP-PB

Formerly referred to as "half NIO", this is now the standard size for HP-PB cards. Illustrated is the 28655A SCSI/parallel card

HP-PB Card Connector


Typical HP-PB Card.

Typical Standard
(Half-Size) HP-PB (NIO) Card


## HP-PB Card profile.



## Typical Double-High HP-PB Card



Double HP-PB Card Profile.


## HSC

## (High-speed System Connect)

## HSC 3x5 Form-Factor

HSC 3x5 form-factor, also known as "GSC+", is identical to GSC-M except for mechanical details of the cover plate at the bulkhead end.


HSC $3 \times 5$ cards actually measure $3.5 \times 6$ inches including the bulkhead.


The $3 \times 5$ HSC card and host connectors are identical to GSC-M, except that the host connection is not adjacent to a VME bus on HSC systems. See the GSC-M section for illustrations.

## Large HSC

## ISA (Industry Standard Architecture)

ISA is the generic designation for the 16 -bit 8 MHz bus first introduced by IBM on the PC-AT computer. ISA also includes the earlier 8-bit 8 MHz implementation on the IBM PC and PC-XT.

ISA Slot/Card Summary

| Slot Accepts Card Types | 16-bit ISA, 8-bit ISA |
| :--- | :--- |
| Cards May Be Used in Slots | Any ISA or EISA (see note) |
| Data Width | 8 - or 16-bits |
| Maximum Transfer Rate | 8 or 16 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors: <br> 8-bit <br> 16-bit | 62-pin (31x2) edge, male <br> 98-pin (49x2) edge, male |
| Typical Card Length | 4.5 to 14 inches |
| Typical Card Width | 0.75 inches |
| Typical Card Height | 4.8 inches |
| Bulkhead Offset | Left of card (vertical slot) |
| Note:Although not an issue for PA-RISC workstations, using a 16-bit ISA <br> card in an 8-bit slot reduces performance and resources available, even if <br> supported. |  |

Although many PA-RISC workstations have EISA slots (which accept supported ISA cards), only the Model 715t has a true ISA(16) slot.

(Large) ISA Card Profile.


## MIO (Modular I/O)

MIO is a standard I/O card for many HP hardcopy peripheral devices, such as plotters, large format printers and workgroup laser and inkjet printers.

MIO Slot/Card Summary

| Slot Accepts Card Types | MIO |
| :--- | :--- |
| Cards May Be Used in Slots | MIO |
| Data Width | 8 -bits |
| Maximum Transfer Rate | $-\quad$ Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors: | 48 -pin (16x3) pin\&socket, female |
| Typical Card Length | 6 inches |
| Typical Card Width | 6 inches |
| Typical Card Height | 1.15 inches |
| Bulkhead Offset | Above card |

No PA-RISC workstations have MIO slots, but most MIO cards are supported when used for host connections between the peripheral and workstation.

## Typical MIO Card



MIO Card Profile and Connector.


## PCI (Peripheral Component Interconnect)

PCI is a 32 - or 64 -bit $\mathrm{I} / \mathrm{O}$ bus operating at 33 or 66 MHz and 3.3 V or 5 V signalling levels. PCI slots are gradually replacing EISA slots on PA-RISC workstations.
See the PCI Cards section on page 178 for a table of card and slot compatibility.

PCI Slot/Card Summary

| Slots Accept Card Types | See Table |
| :--- | :--- |
| Cards May Be Used in Slots | See Table |
| Data Width | 32 or 64-bits |
| Maximum Transfer Rate | 132,264 or 530 Mbytes/sec |
| Signalling Voltage | 3.3 or 5 V |
| Card Connectors: <br> 32-bit <br> 64-bit | $124-$ pin (62x2) edge, male <br> $188-p i n ~(94 \times 2) ~ e d g e, ~ m a l e ~$ |
| Typical Card Length <br> PCI-32: <br> PCI-64: | 5 to 14 inches <br> 7 to inches |
| Typical Card Width | 0.75 inches |
| Typical Card Height | 4.8 to 5.2 inches |
| Bulkhead Offset | Right of card (vertical slot) |

PCI cards may be $5 \mathrm{~V}, 3.3 \mathrm{~V}$ or both ("Universal"). Universal cards are common, but universal slots are impractical. Most extant PCI cards are either universal or 5 V . 3.3 V -only cards are rare (except in PCI-64 form).


Slot signalling voltage is determined by the barrier key (above). 66 MHz operation requires 3.3 V signalling.


PCI cards employ ISA-style bulkheads, except that the card is mounted at the left side of the bulkhead as viewed from the exterior. This allows a single bulkhead opening to serve a co-located PCI and EISA slot.
Typical PCI-32 Card and Profile


## Typical PCI-64 Card

The offset handle at the internal end of the card is optional, but common. It inserts in the EISA/ISA card guide for that bulkhead opening.


PCI-64 Card Profile


## SGC (System Graphics Connect)

SGC was the standard graphics and system-level I/O bus on Series 700 computers prior to GSC. Some Models (715, 725) were offered with both buses, and care must be taken when upgrading graphics to ensure that the system actually has the bus type of the new card.

Some non-graphics I/O cards (e.g. J2069A HIPPI) were offered in SGC form.

SGC Slot/Card Summary

| Slots Accept Card Types | SGC |
| :--- | :--- |
| Cards May Be Used in Slots | SGC |
| Data Width | 32 -bits |
| Maximum Transfer Rate | 100 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors: <br> Standard | $176-$ pin (44x4) pin\&socket, female <br> $160-$ pin (40x4) EBBI, male |
| EISA Form factor | 12.7 inches <br> 12.8 to 13.9 inches |
| Typical Card Length <br> Standard: <br> EISA Form Factor: | 8.6 inches <br> 0.75 inches |
| Typical Card Width <br> Standard: <br> EISA Form Factor: | 1.15 inches <br> 4.8 to 5.9 inches |
| Typical Card Height <br> Standard: <br> EISA Form Factor: | Above Card <br> Right of card (vertical slot) |
| Bulkhead Offset <br> Standard: <br> EISA Form Factor: |  |

## SGC Card Connectors



Typical SGC Card Profile


SGC-EISA slots may be co-located with an EISA slot, sharing a common bulkhead opening. SGC-EISA cards have a cut-out to clear any EISA slot present. If the slot is occupied by either an EISA or SGC-EISA card, it cannot be occupied by the other type card.
SGC (EISA Form Factor)


SGC (EISA FF) Card Profile


## TeleShare

## (See Model 712 at end of this Section)

## VME (IEEE-1014-1987)

Although VME specifies a single-high card size, PA-RISC industrial computers are all in the double-high form factor. They also occupy between one and three slots, depending on Model and configuration.

VME Slot/Card Summary

| Slots Accept Card Types | VME, VME-64 |
| :--- | :--- |
| Cards May Be Used in Slots | VME, VME-64, VXI |
| Data Width | 8 -, 16- or 32-bits |
| Maximum Transfer Rate | 40 or 80 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors | One or two -96-pin (32x2) <br> pin\&socket, male |
| Card Length | 7.4 inches (including bulkhead and <br> extractors) |
| Card Width | 0.8 inches |
| Card Height <br> Single-Height: <br> Double-Height: | (Including bulkhead) <br> 5.1 inches <br> 10.3 inches |
| Bulkhead Offset | Right of card (vertical slot) |

VME P1 and P2 Card Connectors


VME Double-High Oblique and Profile Views


## VXI (VME eXtensions for Instrumentation)

VXI is an extension to the VME standard for instrumentation. It standardizes what were undefined, user-defined or vendor-defined pins in VME, adds new larger physical card sizes, provision for shielded card enclosures, power and cooling specifications, additional backplane voltages and communications protocols.

The only VXI product in the PA-RISC industrial workstation product line is the V743, a C-size VXI card.

VXI C-Size Slot/Card Summary

| Slots Accept Card Types | VXI, VME |
| :--- | :--- |
| Cards May Be Used in Slots | VXI |
| Data Width | 16-bits |
| Maximum Transfer Rate | 40 Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors | Two or three - 96-pin (32x2) <br> pin\&socket, male |
| Card Length (C-size) | 14.3 inches (including bulkhead and <br> extractors) |
| Card Width | 0.8 inches |
| Card Height (C-Size) | 10.3 inches |
| Bulkhead Offset | Right of card (vertical slot) |

## VXI Connectors



Typical VXI Card (C-Size) Profile


Typical VXI Card (C-Size)


## XIO (Extended I/O)

XIO was an optional I/O card standard for HP LaserJet Series II and LaserJet-III printers, usually providing a direct network connection.

XIO Slot/Card Summary

| Slot Accepts Card Types | XIO |
| :--- | :--- |
| Cards May Be Used in Slots | XIO |
| Data Width | 8 -bits |
| Maximum Transfer Rate | $-\quad$ Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors: | 34 -pin (17x2) edge, male |
| Typical Card Length | 6.75 inches |
| Typical Card Width | 3.2 inches |
| Typical Card Height | 1.05 inches |
| Bulkhead Offset | Below card |
|  |  |

## Model 712

The Model 712 provides two optional I/O slots. These slots are a version of GSC specific to the Model 712. One is a General I/O (GIO) slot for which several cards are available. The second is a TeleShare I/O (TSIO) slot, for which only one card was ever produced, the A4012AA/AJ TeleShare card.

Model 712Slot/Card Summary

| Slot Accepts Card Types <br> GIO <br> TSIO | GIO only <br> TSIO only |
| :--- | :--- |
| Cards May Be Used in Slots <br> GIO <br> TSIO | GIO <br> TSIO |
| Data Width | 32 -bits |
| Maximum Transfer Rate | __ Mbytes/sec |
| Signalling Voltage | 5 V |
| Card Connectors: <br> GIO <br> TSIO | $80-$-pin (20x4) EBBI, female <br> TBD |
| Typical Card Length | 8 inches |
| Typical Card Width | 0.9 inches |
| Typical Card Height | 2.4 inches |
| Bulkhead Offset | Right of card |

No PA-RISC workstations have XIO slots, but most XIO cards are supported when used for host connections between the peripheral and workstation.
Typical XIO Card


Model 712 General I/O


Model 712 TeleShare

A
ACC
Access Port
133, 139, 140 117, 130, 137
Advanced Communications Controller. See ACC.
AdvanceStack
Hub
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