

NEC Express5800/B120d-h System Configuration Guide



Introduction

This document contains product and configuration information that will enable you to configure your system. The guide will ensure fast and proper configuration of your NEC Express5800 server.

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Technical Specification

Key Features

- High performance with the latest Intel® Xeon® processor E5-2600 product family
- Up to 512 GB of high speed DDR3-1600 memory
- Full manageability by integrated EXPRESSSCOPE Engine 3

Specification

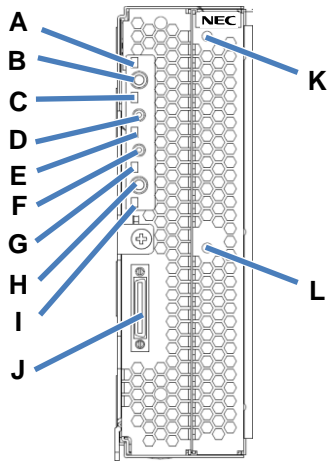
Model		B120d-h			
Part Number		N8400-128F	N8400-127F	N8100-126F	N8400-125F
Processor	Type	Intel® Xeon® processor E5-2630L	Intel® Xeon® processor E5-2640	Intel® Xeon® processor E5-2650	Intel® Xeon® processor E5-2670
	Clock speed	2 GHz	2.5 GHz	2 GHz	2.60 GHz
	Number of Processors	1 to 2			
	Cache	15 MB		20 MB	
	Cores and Threads	6C-12T		8C-16T	
Chipset		Intel® C602-J Chipset			
Memory	Type	DDR3-1333 ECC Unbuffered Low Power DIMM DDR3-1600 and DDR3-1066 ECC Registered Low Power DIMM			
	Standard Capacity	0 GB			
	Maximum Capacity	512 GB (Sixteen 32 GB)			
	Memory protection	ECC, x4 SDDC, Memory Lockstep ¹ , Memory Mirror ¹			
Internal Storage	Standard Capacity	0 GB			
	Maximum Capacity	SATA SSD: 800 GB (Two 400GB)			
	Disk Controller	SATA : 3Gb/s (Integrated)			
	RAID	SATA : RAID 0/1 (Optional ²)			
	Hot Plug	Not supported			
	Disk Drive Bays [free]	2 [2]			
Expansion Slots [free]	Standard	Total: 3 slots available 1[1] Type 1 mezzanine 1[1] Type 2 mezzanine 1[1] PCIe for a flexible integrated NIC			
Video	Controller (VRAM)	Integrated in Server Management Controller (32MB)			
	Resolution / Color	640x480 – 1280x1024 / 16.7M ³			
Interfaces		1 SUV (1 front)			
Server Management		EXPRESSSCOPE Engine 3			
Maximum Power Consumption (VDC)		351 Watt	401 Watt	413 Watt	479 Watt
Dimensions (W x D x H)		51.6 x 515.4 x 180.7 mm / 2.0 x 20.3 x 7.1 in			
Weight (Minimum / Maximum)		2kg / 5 kg, 4.41 / 13.23 lbs.			
Enclosures		Blade Enclosure M, Blade Enclosure-H v2			
Temperature, Relative Humidity (non-condensing)		Operating: 10° to 35° C / 50° to 95° F, 20 to 80% Non-Operating: -10° to 55° C / 14° to 131° F, 20 to 80%			
Regulatory and Safety		FCC, CE, BSMI, CCC, UL, CB, RoHS, WEEE			
Operating Systems		Microsoft® Windows Server® 2003 R2, Standard Edition Microsoft® Windows Server® 2003 R2, Enterprise Edition Microsoft® Windows Server® 2003 R2, Standard x64 Edition Microsoft® Windows Server® 2003 R2, Enterprise x64 Edition Microsoft® Windows Server® 2008 Standard Microsoft® Windows Server® 2008 Enterprise Microsoft® Windows Server® 2008 Standard (x64) Microsoft® Windows Server® 2008 Enterprise (x64)			

Model	B120d-h
Operating Systems	Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows Server® 2008 R2 Enterprise Microsoft® Windows Server® 2012 Standard ⁴ Microsoft® Windows Server® 2012 Datacenter ⁴ Red Hat Enterprise Linux 5.8 or later (x86) ⁵ Red Hat Enterprise Linux 5.8 or later (EM64T) ⁵ Red Hat Enterprise Linux 6.2 or later (x86) ⁵ Red Hat Enterprise Linux 6.2 or later (x86_64) ⁵ VMware ESX 4.1u2 VMware ESXi 5.0u1 VMware ESXi 5.0u2 VMware ESXi 5.1 VMware ESXi 5.1u1 VMware ESXi 5.5

- ¹ To configure memory mirror and memory lockstep configuration, contact your sales representative.
- ² Embedded SATA RAID controller is supported only on limited OS. For more details, please see OS [Support Matrix for PCI Cards and Embedded Controllers](#).
- ³ Maximum resolution and color available via EXPRESSSCOPE Engine 3 remote console is 1280 x 1024 / 65K colors.
- ⁴ For Windows Server 2012 installation, download the driver kit from the following website and install it after OS installation
<http://www.nec.com/en/global/prod/express/download/>
- ⁵ For Linux support, contact your sales representative or go to the NEC website at:
<http://www.nec.com/global/prod/express/linux/index.html>

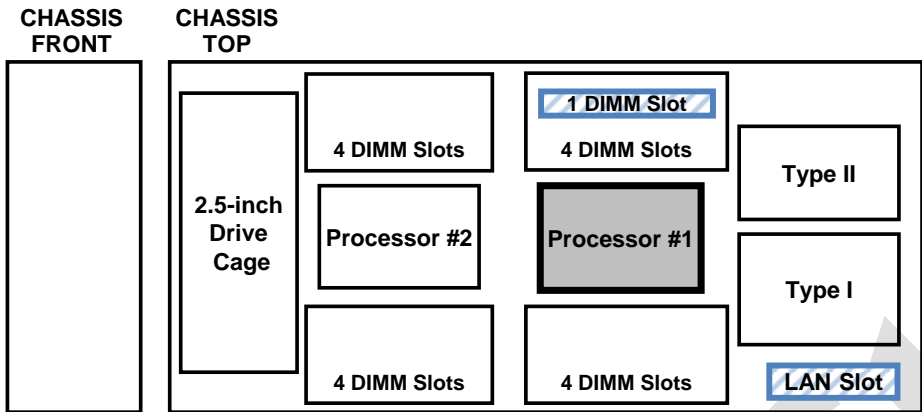
External Views

Front Views



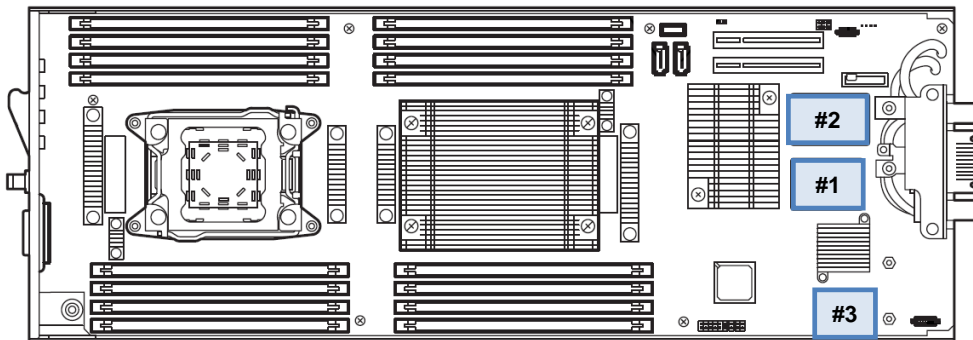
Legend			
A.	Power LED	G.	Data LAN 2 Activity LED
B.	Power Button	H.	UID LED Button
C.	System Status LED	I.	UID LED
D.	Dump (NMI) Switch	J.	SUV Connector
E.	Data LAN 1 Activity LED	K.	SSD0 Activity LED
F.	System Reset Switch	L.	SSD1 Activity LED

Configuration Diagram



Legend: Mandatory components Standard Components

Expansion Slot



Legend

- #1 Type-I mezzanine card slot
- #2 Type-II mezzanine card slot
- #3 Flexible integrated NIC card slot

Server Configuration

1 Base Models

Product Name / Description	Part Number
NEC Express5800 B120d-h (6C/E5-2630L) no RAM, no Drive Cage, no Network Controller Including: One Intel Xeon processor E5-2630L, EXPRESSBUILDER DVD	N8400-128F
NEC Express5800 B120d-h (6C/E5-2640) no RAM, no Drive Cage, no Network Controller Including: One Intel Xeon processor E5-2640, EXPRESSBUILDER DVD	N8400-127F
NEC Express5800 B120d-h (8C/E5-2650) no RAM, no Drive Cage, no Network Controller Including: One Intel Xeon processor E5-2650, EXPRESSBUILDER DVD	N8400-126F
NEC Express5800 B120d-h (8C/E5-2670) no RAM, no Drive Cage, no Network Controller Including: One Intel Xeon processor E5-2670, EXPRESSBUILDER DVD	N8400-125F

2 2nd Processor

Available sockets: 1

Product Name / Description	Part Number
Xeon E5-2630L 2nd Processor Kit Intel® Xeon® Processor E5-2630L (2 GHz, 6C/12T, 10 MB)	N8401-063F
Xeon E5-2640 2nd Processor Kit Intel® Xeon® Processor E5-2640 (2.50 GHz, 6C/12T, 10 MB)	N8401-062F
Xeon E5-2650 2nd Processor Kit Intel® Xeon® Processor E5-2650 (2 GHz, 8C/16T, 20 MB)	N8401-061F
Xeon E5-2670 2nd Processor Kit Intel® Xeon® Processor E5-2670 (2.60 GHz, 8C/16T, 20 MB)	N8401-060F

NOTE:

- The 2nd processor must be the same with what is used in the base model

3 Memory

3.1 Memory Configuration

Available slots: 8 per processor

Category	Product Name / Description	Part Number
Unbuffered DIMM (UDIMM)	4GB DDR3-1333 UNB Memory Kit One 4GB Unbuffered ECC DIMM, DDR3L-1333(PC3L-10600) NOTE: The x4 SDDC is not supported.	N8402-109F
Registered DIMM (RDIMM)	2GB DDR3-1600 REG Memory Kit One 2GB Registered ECC DIMM, DDR3L-1600(PC3L-12800) NOTE: The x4 SDDC is not supported.	N8402-125F
	4GB DDR3-1600 REG Memory Kit One 4GB Registered ECC DIMM, DDR3L-1600(PC3L-12800)	N8402-126F
	8GB DDR3-1600 REG Memory Kit One 8GB Registered ECC DIMM, DDR3L-1600(PC3L-12800)	N8402-153F
	16GB DDR3-1066 REG Memory Kit One 16GB Registered ECC DIMM, DDR3L-1066(PC3L-8500)	N8402-128F
	32GB DDR3-1066 REG Memory Kit One 32GB Registered ECC DIMM, DDR3L-1066(PC3L-8500)	N8402-096F

NOTE:

- Minimum one memory kit per processor must be installed.
- It is recommended to install three identical memory kits for triple-channel symmetric memory configurations to increase memory transfer speed.
- Mix configurations of UDIMM/RDIMM are not supported.

Maximum Memory Speed

See the table below for the actual maximum memory transfer speed in Independent Channel / Memory Sparing Configuration.

DDR3 memory speed depends on the type of DIMMs, the native memory bus speed of the memory controller and memory configuration. All memory buses operate at the clock frequency of the DIMM with the lowest frequency.

Processor Type	Populated DIMMs	Memory Power Setting	DIMM Speed
E5-2630L	UDIMM: 4GB	-	1333 MHz
E5-2640	RDIMM: 2 GB, 4 GB, 8 GB, 16 GB	-	1333 MHz
	RDIMM: 32 GB	-	800 MHz
E5-2650	UDIMM: 4GB	-	1333 MHz
E5-2670	RDIMM: 2 GB, 4 GB, 8 GB, 16 GB	Low (1.35V)	1333 MHz
		Normal (1.5V)	1600 MHz
	RDIMM: 32 GB	-	800 MHz

Maximum Available Memory

See the table below for the maximum memory size that you can actually use on your system.

The maximum available memory is less than the maximum physical memory supported by your system because some chipsets require PCI resource space of about 750MB. PCI resource requirements vary depending on the type and the number of PCI cards you are using.

Maximum Memory Size Supported by Operating Systems		Maximum Available Memory
Microsoft Windows Server 2003 R2, Standard Edition	4 GB	4 GB (HW-DEP enabled)
Microsoft Windows Server 2008 Standard		App. 3.6 GB (HW-DEP disabled)
Microsoft Windows Server 2003 R2, Standard x64 Edition	32 GB	32 GB
Microsoft Windows Server 2008 Standard (x64)		
Microsoft Windows Server 2008 R2 Standard		
Microsoft Windows Server 2003 R2, Enterprise Edition	64 GB	64 GB
Microsoft Windows Server 2008 Enterprise		
Microsoft Windows Server 2003 R2, Enterprise x64 Edition	1 TB	512 GB
Microsoft Windows Server 2008 Enterprise (x64)	2 TB	512 GB
Microsoft Windows Server 2008 R2 Enterprise		
Microsoft Windows Server 2012 Standard	4 TB	512 GB
Microsoft Windows Server 2012 Datacenter		
Red Hat Enterprise Linux 5	16 GB	16 GB
Red Hat Enterprise Linux 6		
Red Hat Enterprise Linux 5 (EM64T)	1 TB	512 GB
Red Hat Enterprise Linux 6 (x86_64)	2 TB	512 GB
VMware ESX 4.1 ¹	256 GB or 1 TB	256 GB or 512 GB
VMware ESXi 5.0 ² , 5.0 ²	2 TB	512 GB

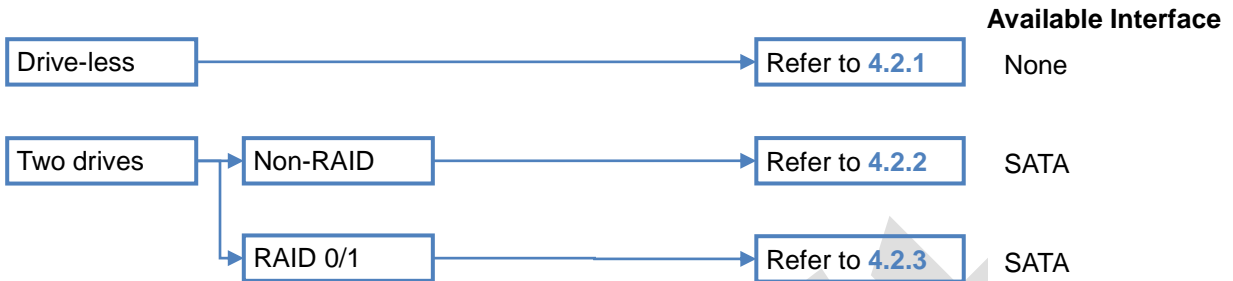
¹ Up to 255 GB of the main memory is available to each virtual machine

² Up to 1 TB of the main memory is available to each virtual machine.

4 Internal Drives

4.1 Drive and RAID Configuration

Refer to the section in accordance with your drive configuration.



NOTE:

- Hot plug insertion/removal are not supported in the Embedded SATA configuration.
- Embedded SATA RAID controller is supported only on limited OS. For more details, please see OS [Support Matrix for PCI Cards and Embedded Controllers](#).
- All hard drives within a RAID array should be of the same capacity and rotation speed.
- Mixing SAS and SATA hard drives in the same system is not supported.

4.2 Internal Drive Configuration

4.2.1 Drive-less

Category	Product Name / Description	Part Number
Drive Cage Required	Drive-less Blade Kit Stiffener	N8403-042F

4.2.2 Embedded SATA non-RAID Controller

Category	Product Name / Description	Part Number
Drive Cage Required	SSD Drive Cage Kit Two 2.5-inch non-hot plug hard drive bays, one internal SATA cable	N8403-043F
Drive 2 slots available	SATA SSD 100GB Non-hot Plug 2.5-inch SATA SSD One 100 GB, 2.5-inch, eMLC, SATA	N8450-706
	SATA SSD 400GB Non-hot Plug 2.5-inch SATA SSD One 400 GB, 2.5-inch, eMLC, SATA	N8450-708

NOTE:

- Hot plug insertion/removal is not supported.

4.2.3 Embedded SATA RAID Controller

Category		Product Name / Description	Part Number
Drive Cage Required		SSD Drive Cage Kit Two 2.5-inch non-hot plug hard drive bays, one internal SATA cable	N8403-043F
Drive 2 slots available	SATA SSD	100GB Non-hot Plug 2.5-inch SATA SSD One 100 GB, 2.5-inch, eMLC, SATA	N8450-706
		400GB Non-hot Plug 2.5-inch SATA SSD One 400 GB, 2.5-inch, eMLC, SATA	N8450-708
Drive 2 slots available	SATA SSD	100GB Non-hot Plug 2.5-inch SATA SSD One 100 GB, 2.5-inch, eMLC, SATA	N8450-706
		400GB Non-hot Plug 2.5-inch SATA SSD One 400 GB, 2.5-inch, eMLC, SATA	N8450-708

NOTE:

- All hard drives within a RAID array should be of the same capacity.
- Embedded SATA RAID controller is supported only on limited OS. For more details, please see OS [Support Matrix for PCI Cards and Embedded Controllers](#).

5 I/O Expansion Card

5.1 Network Interface Controller

Category		Product Name / Description	Part Number
Riser	GbE	Dual Port 1GBASE Riser Card Kit	N8403-061F
	10GbE	Dual Port 10GBASE Riser Card Kit	N8403-062F
		Dual Port 10GBASE Riser Card Kit iSCSI boot supported	N8403-064F
Adapter Type I	GbE	1000BASE (2ch) Adapter Intel® 82571EB Gigabit Ethernet Adapter	N8403-021
		Dual Port 1000BASE Adapter Intel® Ethernet Controller I350-AM2	N8403-076F
	10GbE	10GBASE-KR LAN interface card Intel® 82599ES 10Gigabit Ethernet Adapter	N8403-035
		NOTE: - Connect to 10Gb Pass-Through Card or N8406-051F 10Gb Intelligent L3 Switch. - NEC Storage connection is not supported with RHEL6.	
		Dual Port 10GBASE Adapter Broadcom BCM57810	N8403-065F
		Dual Port 10GBASE Adapter Broadcom BCM57810, iSCSI boot supported	N8403-067F
	CNA	10Gb CNA Card 2Ch Dual Port 10Gb Converged Network Adaptor	N8403-072F
	NOTE: - For external FCoE Switch connection, connect via N8406-035/036 10Gb Pass-Through Card.		
Adapter Type II	GbE	1000BASE-T(4ch) Adapter Intel® 82571EB Gigabit Ethernet Adapter	N8403-022
		Quad Port 1000BASE Adapter Intel® Ethernet Controller I350-AM4	N8403-077F

NOTE:

- One riser card kit must be installed.
- Wake on LAN feature is supported only on the LAN riser cards.

The types and number of available NICs when installing 10GBASE Riser Card Kits

See the table below for the types and number of available NICs when a Dual Port 10GBASE Riser Card Kit is installed on Windows Server 2008 or Windows Server 2008 R2 or Windows Server 2012.

The condition depends on interruption processing resulting from a processor and an operating system and insufficient interruption processing resources may lead to system boot process requiring long time.

Processor Type	Number of Processor	Types and Number of Available NICs
E5-2670 E5-2650	1 to 2	All of the NICs can be installed into any slots
E5-2640 E5-2630L	2	All of the can be installed into any slots
	1	Either N8403-067F Dual Port 10GBASE Adapter or N8403-067F Dual Port 10BGASE Adapter can be installed. All of the NICs excluding Dual Port 10GBASE Adapters can be installed into any slots.

NIC Teaming feature

When using NIC teaming, please note the following:

- Any of the network teaming must be processed in a single LAN controller.
- Teaming feature is not supported on iSCSI interfaces.
- To configure NIC bonding, please contact your sales representatives.

NIC Partitioning feature

N8403-062F/064F 10GBASE riser cards and N8403-065F/067F 10GBASE adapters support NIC partitioning (NPAR.) To use NIC Partitioning, please note the following:

- NIC Partitioning is supported on Windows Server 2008/2008R2 64bit OS and 64bit Linux OS only.

Using iSCSI Boot

To configure iSCSI boot system, please contact your sales representatives.

5.2 External Storage Controller

5.2.1 Fibre Channel Controller

Category	Product Name / Description	Part Number
Adapter Type I	Fibre Channel Controller(4Gbps/2ch) Emulex LightPulse LPe1105-N Host Bus Adapter	N8403-018
	Fibre Channel Controller(8Gbps/2ch) Emulex LightPulse LPe1205-N Host Bus Adapter	N8403-034F

NOTE:

- Link speed of two ports in one cards should be used with the same link speed.

6 Other Add-in Components

6.1 Trusted Platform Module Kit

Product Name / Description	Part Number
Trusted Platform Module Kit TPM 1.2 module	N8415-002F

NOTE:

- The kit is not available in China.
- The kit is not removable after attachment.
- "TPM Support" in BIOS setup menu must be activated prior to use of this product.
- To use Windows BitLocker drive encryption, be sure to keep the "recovery password" of BitLocker function. The recovery password is required to restore data for hardware replacement during a system error.

6.2 Internal Flash Memory

Available socket: 1

Product Name / Description	Part Number
Internal Flash Memory Internal flash memory to enable software and tools in the EXPRESSBUILDR DVD without DVD media NOTE: Before use, software and tools must be copied from the EXPRESSBUILDER DVD to the flash memory. The following operations can be performed with the flash memory: <ul style="list-style-type: none"> - Installation of Windows server with express setup - Installation of Starter Pack—the package of NEC qualified drivers and system setting tools - Installation of NEC ESM PRO Agent and Universal RAID Utility - Performance of the Test and Diagnosis Tool 	N8415-003F

References

Server Management

The EXPRESSSCOPE Engine 3, integrated into the server, provides superior remote control and system management features listed in the table below.

		Standard
Hardware monitoring	Temperature, voltage, power, drives, degeneration (memory, hard drive)	✓
	Hardware event log collection	✓
Boot monitoring	Booting, BIOS/POST stall, OS stall, shutdown	✓
Alerting	HW error, Boot error and OS panic (by SNMP, E-Mail)	✓
Remote KVM (via LAN)	POST/BIOS setup, DOS utility	✓
	Panic screen, Boot screen	✓
	Text-based screen (OS console)	✓
	GUI-based screen (OS console)	✓
Remote control (via LAN)	Remote reset/power on-off/ dump	✓
	Power control	✓
	BIOS and BMC Firmware update	✓
	BIOS setting ¹	✓
	OS shutdown	✓
	Remote media (CD/DVD, FD, USB Key)	✓
	Server Management Command Line Protocol (DMTF compliant)	✓
	Remote control via Web browser (without dedicated app)	✓
	Remote batch	✓
	Scheduling (without UPS)	✓
Others	Set automatic IP address via DNS/DHCP	✓
Remote wakeup	Wake On LAN, Wake On Ring	✓
Centralized management	Monitoring and control of multiple servers	✓
Industry standard	IPMI	2.0

¹ Some setting items can only be changed.

OS Support Matrix for PCI Cards and Embedded Controllers

Part number	Product Name	WS 2012	WS 2008R2	WS 2008	WS 2008 x64	WS 2003R2	WS 2003R2 x64	RHEL 6	RHEL 6 x64	RHEL 5	RHEL 5 x64	ESXi 5.5	ESXi 5.1	ESXi 5.0	ESX 4.1
N8403-043F	SSD Drive Cage Kit - Embedded SATA non-RAID controller	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-043F	SSD Drive Cage Kit - Embedded SATA RAID controller	-	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-
N8403-061	Dual Port 1GBASE Riser Card Kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-062	Dual Port 10GBASE Riser Card Kit	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-064	Dual Port 10GBASE Riser Card Kit	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
N8403-021	1000BASE-T(2ch) adapter	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-076F	Dual Port 1000BASE Adapter	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-
N8403-022	1000BASE-T(4ch) adapter	-	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-077F	Quad Port 1000BASE Adapter	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
N8403-035	10GBASE-KR LAN interface card	✓	✓	-	✓	-	✓	-	✓	-	✓	✓	✓	✓	✓
N8403-065F	Dual Port 10GBASE Adapter	-	✓	-	✓	-	✓	-	✓	-	✓	✓	✓	✓	✓
N8403-067F	Dual Port 10GBASE Adapter	-	✓	-	✓	-	✓	-	✓	-	✓	-	-	-	-
N8403-072F	10Gb CNA Card 2Ch	-	✓	-	-	-	-	-	-	-	-	-	-	-	-
N8403-018	Fibre Channel Controller(4Gbps/2ch)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
N8403-034	Fibre Channel Controller(8Gbps/2ch)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Support Matrix for Adapters and Network Interconnect Devices

Network Adapter

Part number	Product Name	N8406-051F	N8406-035	N8406-036	N8406-029	N8406-044	N8460-023	N8460-023A
		10Gb Intelligent L3 Switch	10Gb Pass-Through	1Gb Pass-Through Card	1/10Gb Intelligent L3 Switch	1Gb Intelligent L3 Switch		
N8403-061F	Dual Port 1GBASE Riser Card Kit	✓	✓ ²	✓	✓	✓	✓	✓
N8403-062F	Dual Port 10GBASE Riser Card Kit	✓	✓	✓	✓	✓	✓	✓
N8403-064F	Dual Port 10GBASE Riser Card Kit	✓	✓	✓	✓	✓	✓	✓
N8403-065F	Dual Port 10GBASE Adapter	✓	✓	✓	✓	✓	✓	✓
N8403-067F	Dual Port 10GBASE Adapter	✓	✓	✓	✓	✓	✓	✓
N8403-021	1000BASE-T(2ch) adapter	✓ ¹	✓ ²	✓	✓	✓	✓	-
N8403-076F	Dual Port 1000BASE Adapter	✓ ¹	✓ ²	✓	✓	✓	✓	-
N8403-022	1000BASE-T(4ch) adapter	✓	✓ ²	✓	✓	✓	✓	-
N8403-077F	Quad Port 1000BASE Adapter	✓	✓ ²	✓	✓	✓	✓	-
N8403-035	10GBASE-KR LAN interface card	-	✓	✓	✓	✓	✓	✓
N8403-072F	10Gb CNA Card 2Ch	-	✓	✓	✓	✓	✓	-

¹ Existing 1Gb Intelligent L3 Switch installed for embedded NIC can be shared with embedded NIC and the optional NIC if N8406-013 1Gb Inter-link Expansion Card is installed in Blade Enclosure M system

² N8406-037 10GBASE-SR SFP+ module is not supported

Fibre Channel Controller

Part number	Product Name	N8406-040	N8406-021	N8406-020	N8406-042	N8406-030
		8G FC switch (12 ports)	2/4G FC Pass-Through Card (12 port) ¹	4G FC Switch (24port) ²	8G FC switch (24 ports) ²	2/4G FC Pass-Through Card (24 port) ²
N8403-018	Fibre Channel Controller(4Gbps/2ch)	✓	✓	✓	✓	✓
N8403-034	Fibre Channel Controller(8Gbps/2ch)	✓	-	-	✓	-

¹ Supported for Blade Enclosure M only

² Supported for Blade Enclosure H v2 only

Supporting PCI Cards and Installable Slots

Part Number	Product Name	Slots		
		#1	#2	#3
	Slot # :	Type I	Type II	NIC
	Slot type:	Type I	Type II	NIC
N8403-061F	Dual Port 1GBASE Riser Card Kit	-	-	✓
N8403-062F	Dual Port 10GBASE Riser Card Kit	-	-	✓
N8403-064F	Dual Port 10GBASE Riser Card Kit	-	-	✓
N8403-065F	Dual Port 10GBASE Adapter	✓	✓	-
N8403-067F	Dual Port 10GBASE Adapter	✓	✓	-
N8403-021	1000BASE-T(2ch) adapter	✓	✓	-
N8403-076F	1000BASE(2ch) adapter	✓	✓	-
N8403-022	1000BASE-T(4ch) adapter	-	✓	-
N8403-077F	1000BASE(4ch) adapter	-	✓	-
N8403-035	10GBASE-KR LAN interface card	✓	✓	-
N8403-072F	10Gb CNA Card 2Ch	✓	✓	-
N8403-018	Fibre Channel Controller(4Gbps/2ch)	✓	✓	-
N8403-034	Fibre Channel Controller(8Gbps/2ch)	✓	✓	-

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For hard drive capacity measurements, 1 GB = 1 billion bytes. Actual formatted capacity is less.

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Revision History

Revision	Date	Description
5.0	January 16, 2014	<p>New products added: 8GB DDR3-1600 REG Memory Kit / N8402-153F</p> <p>Discontinued products removed: 8GB DDR3-1600 REG Memory Kit / N8402-127F</p> <p>Others: Add VMware ESXi 5.5 to the list of operating system supported Update OS support matrix</p>
4.0	July 17, 2013	<p>New products added: 100GB Non-hot Plug 2.5-inch SATA SSD / N8450-706 400GB Non-hot Plug 2.5-inch SATA SSD / N8450-708 Dual Port 1000BASE Adapter / N8403-076F Quad Port 1000BASE Adapter / N8403-077F</p> <p>Discontinued products removed: 100GB Non-hot Plug 2.5-inch SATA SSD / N8450-703</p>
3.0	January 15, 2013	<p>Part number changed: Trusted Platform Module Kit / N8415-002F</p> <p>Others: Add Windows Server 2012 to the list of operating system supported Update OS support matrix</p>
2.0	October 26, 2012	<p>VMware ESXi5.1 supported. N8403-065F/067F Dual Port 10GBASE Adapter added. N8403-072F 10Gb CNA Card added.</p>
1.0	June 26, 2012	Initial release