Overview

HP ProBook x360 11 G4 EE Notebook PC



	Le	ft	
1.	Internal microphones (2)	7.	Volume button
2.	User-facing webcam LED	8.	Power button
3.	User-facing 720p webcam	9.	Headphone / Microphone combo jack
4.	ClickPad	10.	USB 3.1 Gen 1 port
5.	World-facing 5 megapixels webcam (Select models only)	11.	Security lock slot (Nano lock sold separately)
6.	World-facing webcam LED (Select models only)		



Overview



- 1. Power connector
- 2. Ethernet (RJ-45) port
- 3. HDMI port (Cable not included)

Right

- 4. USB 3.1 Gen 1 port
- 5. USB Type-C™ (Data and Power in-out)
- 6. Micro SD card reader



Overview

AT A GLANCE

- Starting at 3.18 lbs (1.44 kg)
- Less than 20 mm (0.79"), this flexible 360° hinge converts to laptop, tablet, tent, or stand mode easily
- Passed MIL-STD 810G testing¹ with rugged features such as co-molded rubber trim, spill- and pick-resistant keyboard. and Corning® Gorilla® Glass 3 touch screen
- Optional dual camera system for project-based learning
- Optional HP Active Pen provides an authentic digital inking experience
- Pre-installed with Windows 10 Pro 64, Windows 10 Pro 64 (National Academic), Windows 10 Home 64, or Windows 10 Pro
 in S mode 64
- Powered by 8th Generation Intel® m3-8100Y or i5-8200Y processors
- Choice of 29.4cm (11.6") diagonal HD UWVA slim LED touch screen (1366 x 768) or 29.4 cm (11.6") diagonal HD SVA slim LED touch screen (1366 x 768) displays
- 128 GB SATA-3 or 256 GB PCIe Solid State Drive storage options
- Up to 8 GB system memory for enhanced memory management
- Reliable connectivity with choice of Intel® Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 5.0 Combo WLAN or Realtek RTL8822BE 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo WLAN for learning and collaboration beyond the classroom
- Built-in ports include: Ethernet (RJ-45), USB 3.1 Gen 1, USB Type-C™, and HDMI 2.0a port for connecting to highresolution displays
- Enhanced security TPM 2.0 discrete chip
- Battery life up to 15 hours

1. MIL STD 810G testing is pending and is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.

NOTE: See important legal disclosures for all listed specs in their respective features sections.



PRODUCT NAME

HP ProBook x360 11 G4 EE Notebook PC

OPERATING SYSTEM

Preinstalled Windows® 10 Pro 64¹

Windows® 10 Pro 64 (National Academic License)²

Windows® 10 Home 641

Windows® 10 Home Single Language 641

Windows 10 Pro in S mode 643

Windows 10 Pro in S mode 64 (National Academic only)^{2,3}

Note: In accordance with Microsoft's support policy, HP does not support the Windows® 8 or Windows® 7 operating system on products configured with Intel® and AMD 7th Generation and forward processors or provide any Windows® 8 or Windows® 7 drivers on http://www.support.hp.com

- 1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.
- 2. Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.
- 3. Windows 10 Pro in S mode 64 works exclusively with apps from the Windows Store. Some accessories and apps compatible with Windows 10 may not work, and performance may vary. Certain default settings, features, and apps cannot be changed. Easily switch to Windows 10 Pro configuration (fee applies). Learn more at Microsoft.com/Windows10S.

PROCESSORS

Intel® Core™ m3-8100Y with Intel® UHD Graphics 615 (1.1 GHz base frequency, up to 2.7 GHz burst frequency, 4 MB cache, 2 cores)^{4,5,6}

Intel® Core™ i5-8200Y with Intel® UHD Graphics 615 (1.3 GHz base frequency, up to 3.2 GHz burst frequency, 4 MB cache, 2 cores)^{4,5,6}

Processors Family

8th Generation Intel® Core™ m3 processor (m3-8100Y)⁶ 8th Generation Intel® Core™ i5 processor (i5-8200Y)⁶

- 4. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 5. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 6. NOTE: In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.



Technical Specifications CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics 6157

7. HD content required to view HD images

DISPLAY

Internal

Touch

29.46 cm (11.6") diagonal HD SVA eDP WLED-backlit slim touch screen with HD camera, 220 cd/m 2 , 67% sRGB (1366 x 768) 7,8,9

29.46 cm (11.6") diagonal HD IPS eDP WLED-backlit slim touch screen with HD camera, 220 cd/m 2 , 50% sRGB (1366 x 768) 7,8,9

HDMI

Port supports resolutions up to 3840 x 2160 external resolution @60 Hz

- 7. HD content required to view HD images.
- 8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 9. Sold separately or as an optional feature.

STORAGE AND DRIVES

Primary Storage

128 GB SATA-3 TLC Solid State Drive¹⁰ 256 GB PCIe Value Solid State Drive¹⁰

10. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.

MEMORY

Standard Maximum Memory 8 GB LPDDR3-1866 SDRAM¹¹



Memory

4 GB LPDDR3-1866 SDRAM (on-board)¹¹ 8 GB LPDDR3-1866 SDRAM (on-board)¹¹

11. Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed.

NETWORKING/COMMUNICATIONS

Broadband Wireless (WWAN)^{1,2,3} WLAN

Intel® Dual Band Wireless-AC 9260 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo, non-vPro™12 Realtek 802.11a/b/g/n/ac (2x2) and Bluetooth® 4.2 Combo¹¹

Miracast

Miracast Support¹⁴

Ethernet

Realtek RTL8111HSH-CG 10/100/1000 GbE NIC13

- 12. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
- 13. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.
- 14. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

AUDIO/MULTIMEDIA

Audio

HP Audio 2 Integrated stereo speakers Headphone / microphone in combo jack

Camera

User-facing 720p HD camera⁷ Located on display

Webcam

World-facing 5 MP secondary camera⁹ Located on keyboard deck

NOTE: Both webcams are fix focus.

- 7. HD content required to view HD images.
- 9. Sold separately or as an optional feature.



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS/PEN

Keyboard

Full-sized keyboard, spill and pick resistant

Pointing Device

Clickpad with multi-touch gesture support, taps enabled as default Default on: 2-finger scroll, pinch Support Windows 10 modern Trackpad gestures

Function Keys

- F1 Blank
- F2 ClickPad Enable/Disable
- F3 Sleep
- F4 Display Switching
- F5 Audio Mute/Unmute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute/Unmute
- F9 Brightness Down
- F10 Brightness Up
- F11 Blank
- F12 Wireless On/Off

Pen

Optional HP Active Pen9

9. Sold separately or as an optional feature.

SOFTWARE AND SECURITY

BIOS

HP BIOSphere Gen4¹⁵
HP DriveLock & Automatic DriveLock¹⁶
BIOS Update via Network
Secure Erase¹⁷
Absolute Persistence Module¹⁸
Pre-boot Authentication
HP Wireless Wakeup

Software

HP Native Miracast Support¹⁴ HP Connection Optimizer HP 3D DriveGuard HP Hotkey Support - CMIT

HP Jumpstart

HP Support Assistant¹⁹

HP Noise Cancellation Software

HP School Pack



Technical Specifications

HP Host Based MAC Address Manager Buy Office (sold separately)

Manageability Features

HP Driver Packs²¹

HP System Software Manager (SSM)

HP BIOS Config Utility (BCU)

HP Client Catalog

HP Manageability Integration Kit Gen2²²

Ivanti Management Suite²³

Client Security Software

HP Client Security Suite Gen4²⁴ including:

HP Security Manager (including Credential Manager, HP Password Manager²⁵, HP Spare Key)

HP Device Access Manager²⁶

HP Power On Authentication

Windows Defender²⁷

Security Management

Secure Erase²⁸

TPM 2.0 Embedded Security Chip shipped with Windows 10 (Common Criteria EAL4+ Certified)²⁹

SATA 0,1 port disablement (viaBIOS)

RAID configurations³⁰

Serial, USB enable/disable (viaBIOS)

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

HP Sure Click³¹

- 14. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 15. HP BIOSphere Gen4 requires Intel(R) or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- 16. HP Drive Lock & Automatic Drive Lock is not supported on NVMe drives
- 17. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
- 18. Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement. Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- 19. HP Support Assistant requires Windows and Internet access.
- 21. HP Driver Packs not preinstalled, however available for download at

http://www.hp.com/go/clientmanagement.

- 22. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
- 23. Ivanti Management Suite subscription required.
- 24. HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.



25. HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.

26. HP Device Access Manager requires HP Client Security Suite Gen4

27. Windows Defender Opt in and internet connection required for updates.

28. HP Secure Erase - For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. Supported on ProBook 400 G4 platforms under Hared Drive utilities within F10 BIOS.

29. Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).

30. RAID configuration is optional and does require a second hard drive.

31. HP Sure Click is available on most HP PCs and supports Microsoft® Internet Explorer and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or Adobe Acrobat are installed.

POWER

Power Supply

HP Smart 45 W External AC power adapter³² HP Smart 65 W EM External AC power adapter³² HP Smart 45 W USB Type-C™ adapter³²

Primary Battery

3-cell, 48 Wh Long Life Li-ion (90% in 90 minutes)^{33,34}

Power Cord

3-wire plug - 1m

Battery life

Up to 15 hours35

- 32. Availability may vary by country.
- 33. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 34. Recharges the battery up to 90% within 90 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 35. Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.

WEIGHTS & DIMENSIONS

Product Weight

Starting at 3.18 lb (touch)³⁶ Starting at 1.44 kg (touch)³⁶

Product Dimensions (w x d x h)

11.8 x 8.11 x 0.78 in 30 x 20.59 x 1.99 cm

36. Weight will vary by configuration.



Technical Specifications **PORTS/SLOTS**

Ports

2 USB 3.1 Gen 1 Port 1 USB Type-C™ (Data transfer and Power delivery) 1 HDMI 2.0a³⁷ 1 AC power connector 1 RJ-45 1 headphone/microphone combo jack

Expansion Slots

1 multi-format digital media reader Supports SD, SDHC, SDXC

39. HDMI cable sold separately.

SERVICE AND SUPPORT

HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc³⁸

38. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



Technical Specifications

ENVIRONMENTAL & INDUSTRY

Eco-Label Certifications & declarations This product has received or is in the process of being certified to the following appropriate be labeled with one or more of these marks:				
	•IT ECO declaration			
	•US ENERGY STAR®			
	•EPEAT® Silver registered in the United States. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country. Visit http://www.epeat.net for more information.			
	•TC0			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a Typically Configured Notebook.			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	4.28 W	4.34 W	4.12 W	
Normal Operation (Long idle)	1.86W	1.92 W	1.88W	
Sleep	0.42 W	0.44 W	0.42 W	
Off	0.34 W	0.37 W	0.34 W	
	Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S. Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a Microsoft Windows® operating system.			
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 60Hz	
Normal Operation (Short idle)	15 BTU/hr	15 BTU/hr	14 BTU/hr	
Normal Operation (Long idle)	6 BTU/hr	7 BTU/hr	6 BTU/hr	
Sleep	1 BTU/hr	2 BTU/hr	1 BTU/hr	
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr	



Technical Specifications

recillical Specific				
	Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.			
Declared Noise		Sound Power	So	und Pressure
Emissions				_{pAm} , decibels)
(in accordance with		(LWAG, DECS)	(-	pam, decibets/
-				
ISO 7779 and ISO 9296)				
Typically Configured –		2.5		14.3
Idle				
Fired Disk. Danden.		2.6		14.4
Fixed Disk – Random		2.6		14.4
writes				
Longevity and Upgrading Batteries	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the product may include: 3 USB ports 1 PC card slot (type I/II) 1 ExpressCard/54 slot 1 IEEE 1394 Port 2 SODIMM memory slots Optional expansion base docking station 1 multi-bay II storage port Interchangeable HDD Spare parts are available throughout the warranty period and or for up to "5" years after the end of production. This battery(s) in this product comply with EU Directive 2006/66/EC Batteries used in the product do not contain: Mercury greater the1ppm by weight Cadmium greater than 20ppm by weight			
	Battery size: CR2032 (coin cell)			
Additional Information		: lithium/manganese dioxide ct is in compliance with the Restricti	ons of Hazardous Subst	ances (RoHS) directive -
	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680.1 (EPEAT) standard at the Silver level, see http://www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. 			
	 This product contains 2.5% post-consumer recycled plastic (by wt.) This product is 96.7% recycle-able when properly disposed of at end of life. 			of life
Packaging Materials	External:	PAPER/Corrugated	ary disposed of at ella o	237 g
	Internal:	PLASTIC/EPE (Expanded Polyethy	ylene)	27 g
		PLASTIC/Polyethylene low density	ty	13 g
		PLASTIC/Polypropylene - PP	-	3 g
		,		



Technical Specifications

Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer
material usage	to the HP General Specification for the Environment at
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/gse.pdf):
	• Asbestos
	Certain Azo Colorants
	 Certain Brominated Flame Retardants – may not be used as flame retardants in plastics
	• Cadmium
	Chlorinated Hydrocarbons
	Chlorinated Paraffins
	• Formaldehyde
	Halogenated Diphenyl Methanes Load sarbonates and sulfates.
	 Lead carbonates and sulfates Lead and Lead compounds
	Mercuric Oxide Batteries
	Nickel – finishes must not be used on the external surface designed to be frequently handled or
	carried by the user.
	Ozone Depleting Substances
	Polybrominated Biphenyls (PBBs)
	Polybrominated Biphenyl Ethers (PBBEs)
	Polybrominated Biphenyl Oxides (PBBOs)
	Polychlorinated Biphenyl (PCB)
	Polychlorinated Terphenyls (PCT)
	• Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been
	voluntarily removed from most applications.
	Radioactive Substances
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
Packaging Usage	HP follows these guidelines to decrease the environmental impact of product packaging:
	• Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials.
	• Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
	Design packaging materials for ease of disassembly.
	Maximize the use of post-consumer recycled content materials in packaging materials.
	Use readily recyclable packaging materials such as paper and corrugated materials.
	Reduce size and weight of packages to improve transportation fuel efficiency.
	 Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management	HP Inc. offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP
	sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible
	manner.
	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for
	each product type for use by treatment facilities. This information (product disassembly
	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers.
	These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM
	customers who integrate and re-sell HP equipment.
UD Inc Corporate	For more information about UD's commitment to the equirenment:
HP Inc. Corporate	For more information about HP's commitment to the environment:
Environmental	For more information about HP's commitment to the environment:
=	For more information about HP's commitment to the environment:



Technical Specifications

Global Citizenship Report

http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html

Eco-label certifications

http://www8.hp.com/us/en/hp-information/environment/ecolabels.html

ISO 14001 certificates:

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/PC_GBU_Product_Design_ISO_14K _Certificate.pdf

and

http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf

SYSTEM UNIT

Stand-Alone Power Requirements (AC

Power)

Nominal Operating Voltage 19V
Average Operating Power Win 10
Integrated graphics Yes
Max Operating Power UMA<45W

Temperature

Operating 32° to 95° F (0° to 35° C) Non-operating -4° to 140° F (-20° to 60° C)

Relative Humidity

Operating 10% to 90%, non-condensing

Non-operating 5% to 95%, 101.6° F (38.7° C) maximum wet bulb temperature

Shock

Operating 40 G, 2 ms, half-sine Non-operating 240 G, 2 ms, half-sine

Random Vibration

Operating 0.75 grms Non-operating 1.50 grms

Altitude (unpressurized)

Operating -50 to 10,000 ft (-15.24 to 3,048 m) Non-operating -50 to 40,000 ft (-15.24 to 12,192 m)

Planned Industry Standard

Certifications

UL Yes
CSA Yes
FCC Compliance Yes



ENERGY STAR® Yes⁴¹

EPEAT® 2019 Yes, Silver in U.S.⁴²

ICES Yes Australia Yes **NZ A-Tick Compliance** Yes CCC Yes Japan VCCI Compliance Yes KC Yes **BSMI** Yes CE Marking Compliance Yes **BNCI or BELUS** Yes CIT Yes **GOST** Yes Saudi Arabian Compliance (ICCP) Yes SABS Yes **UKRSERTCOMPUTER**

41. Configurations of the HP ProBook x360 11 G4 is ENERGY STAR® qualified are identified as HP ProBook

x360 11 G4 ENERGY STAR on HP websites and on http://www.energystar.gov.

Yes

42. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. Status varies by country.

Visit http://www.epeat.net for more information.

DISPLAYS

Note: All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

Panel LCD 11.6 HD AG WLED SVA 45%cq 220 nits eDP Slim

Outline Dimensions

278.5 x 168.5 mm (max)

 $(W \times H \times D)$

Active Area 256.125 x 144 mm

Weight 210g max **Diagonal Size** 11.6 (inches) **Thickness** 3.0 mm (max)

Interface eDP1.2

Surface Treatment BrightView Glass

Touch Enabled Yes

Contrast Ratio 400:1 (typical)

Refresh Rate 60Hz

Brightness 220 nit typical (panel only)

Pixel Resolution 1366x768 (HD)



Technical Specifications

Format RGB
Backlight LED
Color Gamut Coverage 45%
Color Depth 6 bits

Viewing Angle SVA 45/45/15/35

Panel LCD 11.6 inch HD AG WLED UWVA 50percent cg 220 nits eDP slim

Outline Dimensions

(W x H x D)
Active Area

256.125 x 144 mm

278.5 x 168.5 mm (max)

Weight 200g max

Diagonal Size 11.6 (inches)

Thickness 3.2 mm max
Interface eDP1.2

Surface Treatment BrightView Glass

Touch Enabled Yes

Contrast Ratio 800:1 (typical)

Refresh Rate 60Hz

Brightness 220 nit typical (panel only)

Pixel Resolution 1366x768 (HD)

Format RGB
Backlight LED
Color Gamut Coverage 50%
Color Depth 6 bits

Viewing Angle UWVA 85/85/85

STORAGE AND DRIVES

128 GB 2280 M2 SATA-3 TLC Solid State Drive Form Factor M.2 2280
Capacity 128 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 ATA-8, SATA 3.0

Seek Time Sequential Read Sequential Write

Up to 520 MB/s Up to 450 MB/s

Logical Blocks 250,069,680

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]



Technical Specifications

Features DIPM; TRIM; DEVSLP

256 GB 2280 PCIe NVMe Value Solid State Drive Form Factor M.2 2280
Capacity 256GB
NAND Type TLC

Height0.09 in (2.3 mm)Width0.87 in (22 mm)InterfacePCIe NVMe Gen3X4

Seek Time Sequential Read Sequential Write

Up To 1700 MB/s

Up To 600 MB/s

Logical Blocks 500,118,192

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features TRIM; L1.2

NETWORKING/COMMUNICATIONS

Realtek 802.11a/b/g/n/ac (2x2) WiFi® and Bluetooth® 4.2 Combo
 Wireless LAN
 IEEE 802.11a

 Standards
 IEEE 802.11b

 IEEE 802.11g
 IEEE 802.11n

IEEE 802.11ac
Interoperability Wi-Fi® certified
Frequency Band 802.11b/g/n

•2.402 - 2.482 GHz

802.11a/n

•4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz •5.825 – 5.850 GHz

Data Rates • 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: MCS 0 ~ MCS 15, (20MHz, and 40MHz)

802.11ac: MCS0 ~ MCS9, (1SS, and 2SS)

(20MHz, 40MHz, and 80MHz)

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security³
• IEEE and WiFi[®] compliant 64 / 128 bit WEP encryption for a/b/g

mode only

• AES-CCMP: 128 bit in hardware

• 802.1x authentication

• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.



Technical Specifications

• WPA2 certification

• IEEE 802.11i

• Cisco Certified Extensions, all versions through CCX4 and CCX Lite

WAPI

Network Architecture Ad-hoc (Peer to Peer)

Models Roaming

Output Power²

Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points
• 802.11b: +14dBm minimum

• 802.11g: +12dBm minimum

• 802.11a: +12dBm minimum

802.11n HT20(2.4GHz): +12dBm minimum
802.11n HT40(2.4GHz): +12dBm minimum
802.11n HT20(5GHz): +10dBm minimum
802.11n HT40(5GHz): +10dBm minimum
802.11ac VHT80(5GHz): +10dBm minimum

Power Consumption • Transmit mode 2.0 W

•Receive mode 1.6 W

•Idle mode (PSP) 180 mW (WLAN Associated) •Idle mode 50 mW (WLAN unassociated)

Connected Standby 10mWRadio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity³ 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum 802.11a/g, 6Mbps: -86dBm maximum 802.11a/g, 54Mbps: -72dBm maximum 802.11n, MCS07: -67dBm maximum 802.11n, MCS15: -64dBm maximum 802.11ac, MCS0: -84dBm maximum 802.11ac, MCS9: -59dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the

display enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth

communications

Form FactorPCI-Express M.2 MiniCardDimensionsType 2230: 2.3 x 22.0 x 30.0 mm

Weight Type 2230: 2.8g
Operating Voltage 3.3v +/- 9%

Altitude

Temperature Operating 14° to 158° F (–10° to 70° C)

Non-operating —40° to 176° F (–40° to 80° C)

Humidity Operating 10% to 90% (non-condensing)

Non-operating 5% to 95% (non-condensing)
Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)



LED Activity LED Amber – Radio OFF; LED White – Radio ON

- 1. Check latest software/driver release for updates on supported security features.
- 2. Maximum output power may vary by country according to local regulations.
- 3. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/q (OFDM modulation).

HP Integrated Module with Bluetooth 4.0/4.1/4.2 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2 Compliant Frequency Band 2402 to 2480 MHz

Number of Available Channels Legacy: 0~79 (1 MHz/CH)

BLE: 0~39 (2 MHz/CH)

Data Rates and Throughput Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps,

voice channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth

device with a maximum transmit power of + 4 dBm for BR and EDR.

Power Consumption Peak (Tx) 330 mW

Peak (Rx) 230 mW

Selective Suspend 17 mW

Electrical Interface USB 2.0 compliant

Bluetooth Software Supported Microsoft Windows Bluetooth Software

Link Topology

Power Management Microsoft Windows ACPI, and USB Bus Support **Certifications** FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management ETS 300 328, ETS 300 826 **Certifications** Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles Supported BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full

LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free

Profile (HFP) Advanced Audio Distribution Profile (A2DP)

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b
IEEE 802.11g
IEEE 802.11n
IEEE 802.11ac

(hp

Intel® 9260

802.11a/b/q/n/ac (2x2)

WiFi® and Bluetooth®

5.0 Combo¹ Non-vPro

Technical Specifications

IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r
IEEE 802.11v
Wi-Fi® certified

Interoperability Wi-Fi® certific 802.11b/g/n

•2.402 - 2.482 GHz

802.11a/n/ac

•4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz •5.825 – 5.850 GHz 802.11b/g/n

Data Rates 802.11b/

•2.402 – 2.482 GHz 802.11a/n/ac

•4.9 – 4.95 GHz (Japan) •5.15 – 5.25 GHz •5.25 – 5.35 GHz •5.47 – 5.725 GHz •5.825 – 5.850 GHz

Modulation Direct Sequence Spread Spectrum

BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM

Security³ •IEEE and WiFi® compliant 64 / 128 bit WEP encryption for

a/b/g mode only

•AES-CCMP: 128 bit in hardware

•802.1x authentication

•WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.

•WPA2 certification
•IEEE 802.11i

Cisco Certified Extensions, all versions through CCX4 and CCX

Lite
•WAPI

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +18.5dBm minimum

• 802.11g: +17.5dBm minimum • 802.11a: +18.5dBm minimum

802.11n HT20(2.4GHz): +15.5dBm minimum
802.11n HT40(2.4GHz): +14.5dBm minimum
802.11n HT20(5GHz): +15.5dBm minimum
802.11n HT40(5GHz): +14.5dBm minimum



• 802.11ac VHT80(5GHz): +11.5dBm minimum

• 802.11ac VHT160(5GHz): +11.5dBm minimum

Power Consumption •Transmit mode: 2.0 W

•Receive mode: 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)
 Idle mode: 50 mW (WLAN unassociated)
 Connected Standby/Modern Standby: 10mW

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Form Factor PCI-Express M.2 MiniCard

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2. Type 1216: 1.67 x 12.0 x 16.0 mm

Weight 1. Type 2230: 2.8g

2. Type 126: 1.3g

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LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

POWER

HP 45W Smart AC adapter Dimensions (H x W x D) 3.74 x 1.57 x 1.04 in (9.5 x 4.0 x 2.65 cm)

 Weight
 0.386 lb (175g) max

 Input
 90 to 265 VAC

Input Efficiency 87.74% at 115Vac and 88.4% at 230Vac

Input frequency range 47 to 63 Hz **Input AC current** 1.4 A at 90 VAC



Output Output power 45W

DC output 19.5V

Hold-up time 5ms at 115 VAC input

Output current protection <8.0A

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating 32° to 95° F (0° to 35° C)

temperature

Non-operating (storage) -4° to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16,400 ft (0 to 5000m)

Humidity 20% to 95% Storage Humidity 10% to 95%

EMI and Safety CE Mark - full compliance with LVD and EMC directives

Certifications Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class

B, CISPR22 Class B, CCC, NOM-1 NYCE.

MTBF - over 200,000 hours at 25°C ambient condition.

HP 65W EM Smart AC adapter

 Dimensions
 102x55x30mm

 Weight
 270g +/- 10g

Input Input Efficiency 87% min at 115V/230V

Input frequency range 47 to 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

Output DC output 65W(19.5V/3.33A)

Hold-up time 5 msec at 115 VAC input

Output current limit <11A, Over voltage protection- 29V max

automatic shutdown

Connector 4.5mm Barrel Type, 3 pin/grounded, mates with interchangeable cords

Environmental Design Operating 0° to 35° C

temperature

Non-operating (storage) -20° to 85° C

temperature

Altitude 0 to 5,000 m Humidity 0% to 95% Storage Humidity 0% to 95%

EMI and Safety CE Mark - EMC directives; Worldwide safety standards - IEC60950.

Certifications EN60950, UL60950, Class1, SELV; Agency approvals - C-UL-US, NORDICS,

DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE; Reliability - failure rate of less than 0.1% annually within the first three

years of operation.

HP 45W USB type C Dimensions 94.0mm*40.0mm*26.5mm

Straight 1.8m AC Adapter Weight 192.5g +/-10%



Output

Input Efficiency Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 87.41% 15V: 87.8%

Input frequency range 47 ~ 63Hz

Input AC current Max. 1.4 A at 90 Vac

Output power 5V/15W

9V/27W 12V/36W 15V/45W

DC output 5V/9V/12V/15V
Hold-up time 5ms at 115 Vac input

Output current limit <5.0A

Connector USB Type-C

Environmental Design Operating 32°F to 95° F (0° to 35° C)

temperature

Non-operating (storage) 4°F to 185° F (-20° to 85° C)

temperature

Altitude 0 to 16.400 ft (0 to 5000m)

Humidity 20% to 95% **Storage Humidity** 10% to 95%

EMI and Safety CE Mark - full compliance with LVD and EMC directives

Certifications Worldwide safety standards - IEC60950, EN60950, UL60950, Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class

B, CISPR22 Class B, CCC, NOM-1 NYCE.

MTBF - over 200,000 hours at 25°C ambient condition.

HP 3-cell Long Life Li-Ion (48 WHr) Dimensions (H x W x L)

7.3*94*184.47mm (0.287*3.7*7.263 inch)

Weight 0.215kg

Cells/Type 3cell Lithium-Ion Prismatic cell / 596080

3cell Lithium-Ion Polymer cell / 606072

Voltage 11.4V Amp-hour capacity 4.212Ah Watt-hour capacity 48Wh

Operating (Charging) 32° to 113° F (0° to 45° C)
Operating (Discharging) 14° to 122° F (-10° to 60° C)

Optional Travel Battery

Available

No

COUNTRY OF ORIGIN



HP ProBook x360 11 G4 EE Notebook PC

Technical Specifications

China



Options and Accessories (sold separately and availability may vary by country)

Туре	Description	Part Number
Cases	HP Essential Top Load Case	H2W17AA#xxx
	HP Essential Backpack	H1D24AA
	HP Slim Ultrabook Top Load	F3W15AA
	HP Slim Ultrabook Backpack	F3W16AA
	HP Slim Ultrabook Messenger	F3W14AA
	HP Black 11.6 Always On Case	2MY57AA
Docking	HP USB-C Universal Dock	1MK33AA
	HP USB Travel Dock	TOK30AA
	HP USB-C Travel Dock	TOK29AA
	HP USB-C Universal Dock w/4.5mm Adapter	2UF95AA
	HP 3005pr USB3 Port Replicator	Y4H06AA
	HP USB-C Universal Dock	1MK33AA
	HP USB-C / A Universal Dock G2	5TW13AA
Input/Output	HP Comfort Grip Wireless Mouse	H2L63AA
•	HP Slim USB Keyboard & Mouse Bundle	T6T83AA#xxx
	HP 3-Button Laser Mouse	H4B81AA#xxx
	HP USB Premium Mouse	1JR32AA
	HP Wireless Premium Mouse	1JR31AA
	HP Essential USB Mouse	2TX37AA#xxx
	HP USB Travel Mouse	G1K28AA
	HP Slim Bluetooth Mouse	F3J92AA#xxx
	HP Slim Wireless keyboard and mouse	T6L04AA#xxx
	HP USB-C to USB 3.0 Adapter	N2Z63AA#xxx
	HP USB-C to 3 and 4.5mm Adapter	N2Z65AA#xxx
	HP USB-C to RJ45 Adapter	V7W66AA#xxx
	HP HDMI to VGA Adapter	H4F02AA
	HP Stereo USB Headset	T1A67AA
	HP Stereo 3.5mm Headset	T1A66AA
	HP Active Pen with Spare Tips	1FH00AA#xxx
	HP Active Pen Nib Set	3RV57AA
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx
rowei	HP 45W USB-C Power Adapter	1HE07AA#xxx
	HP 65W USB-C Power Adapter	1HE07AA#XXX
	HP Notebook Powerbank	N9F71AA#xxx
	65W Smart AC Adapter	
	65W Siliart Ac Adapter	H6Y89AA#xxx
Storage	HP External USB Optical Drive	F2B56AA
Security	HP Nano Keyed Cable Lock	1AJ39AA
Displays	HP ProDisplay P240VA 23.8-inch Monitor	N3H13AA
	HP ProDisplay P232 23-inch Monitor	K7X31AA
	• •	



HP ProBook x360 11 G4 EE Notebook PC

Options and Accessories (sold separately and availability may vary by country)

HP EliteDisplay E243m 23.8-Inch Collaboration Monitor1FH48AAHP EliteDisplay E230t 23-Inch Touch MonitorW2Z50AAHP EliteDisplay S14 14-inch USB-C Portable Monitor3HX46AA



Summary of Changes

Date of change:	Version History:		Description of change:
March 26, 2019	V1 to V2	Added	Environmental Section
June 13, 2019	V2 to V3	Updated	EPEAT
November 15, 2019	V3 to V4	Added	Dock in accerories section

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