Overview

HP ProBook x360 440 G1 Notebook PC



- 1. Security lock slot (Lock sold separately.)
- 2. Power button
- 3. USB 3.1 Gen 1 (Power port)

- 4. Headphone/microphone combo jack
- 5. SD Card reader

Overview



- 1. Microphones (2)
- 2. Web/IR camera
- 3. Webcam light
- 4. Power connector
- 5. Ethernet port (RJ-R45)
- 6. HDMI port (Cable not included.)

Right

- 7. USB 3.1 Gen 1
- 8. USB Type-C[™] port (DisplayPort + Power Delivery)
- 9. Volume Up/Down
- 10. Fingerprint reader
- 11. Clickpad

Overview

AT A GLANCE

- Preinstalled with Windows 10 versions or FreeDOS 2.0
- Choice of Intel® Core™ processors
- HP's signature linear wedge design converts from a traditional laptop to tablet, media and tent modes for easy creation, presentation, collaboration and sharing at the office and on the go
- Full size HP Premium Keyboard, spill-resistant keyboard with a thin layer of mylar film to prevent minor spills
- Function keys provide control of features including: standby mode, display brightness, external display, microphone mute, volume down, volume up, and backlight toggle for backlit keyboard (Select models only.)
- Large Clickpad with gestures support
- Enhanced security features with preinstalled software and hardware options
- Optional HD webcam or IR camera with dual-microphone array for video conferencing¹
- Choice of displays 35.56 cm (14") diagonal FHD (1920 x 1080) UWVA flat LED backlit Corning® Gorilla® Glass 4 touch; 220 cd/m2, 67% sRGB; or 400 cd/m2, 100% sRGB
- Flexible wireless connectivity options
- Battery life up to 13 hours
- HP 3-cell, 48 WHr Li-ion battery
- Passed MIL-STD testng²
- · Te new optional HP Active Pen

1. Sold separately or as an optional feature.

2. MIL-STD-810G testing is pending and is conducted on select HP products. Testing is not intended to demonstrate fitness of U.S. Department of Defense (DoD) contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.



Features

PRODUCT NAME

HP ProBook x360 440 G1 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

FreeDos 2.0

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.

NOTE: Your product does not support Windows 8 or Windows 7

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

PROCESSORS

Intel® Core™ i7-8550U with Intel® UHD graphics 620 (1.8 GHz base frequency, up to 4 GHz with Intel® Turbo Boost Technology, 8 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-8350U vPro™ processor with Intel® UHD Graphics 620 (1.7 GHz base frequency, up to 3.6 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-8250U with Intel® UHD Graphics 620 (1.6 GHz base frequency, up to 3.4 GHz with Intel® Turbo Boost Technology, 6 MB cache, 4 cores)^{3,4,5}

Intel® Core™ i5-7200U with Intel® HD Graphics 620 (2.5 GHz base frequency, up to 3.1 GHz with Intel® Turbo Boost Technology, 3 MB cache, 2 cores)^{3,4,5}

Intel® Core™ i3-8130U with Intel® UHD graphics 620 (2.2 GHz base frecuency, up to 3.4 GHz with Intel® Turbo Boost Technology, 4 MB cache, 2 cores)^{3,4,5}

Intel® Pentium® Gold 4415U with Intel® HD Graphics 610 (2.3 GHz, 2 MB cache, 2 cores)^{3,4,5}

Intel® Celeron® 3865U with Intel® HD Graphics 610 (1.8 GHz, 2 MB cache, 2 cores)3,4,5

Processor Family

8th Generation Intel® Core™ i7 processor (i7-8550U model) ⁵

8th Generation Intel® Core™ i5 processor (i5-8350U) 5

8th Generation Intel® Core™ i5 processor (i5-8250U model) ⁵

8th Generation Intel® Core™ i3 processor (i3-8130U model) ⁵

7th Generation Intel® Core™ i5 processor (i5-7200U model) 5

Intel® Pentium® Gold processor 5

Intel® Celeron® processor (3865U is Windows 10 only) 5

- 3. 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.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



Features

5. **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.

CHIPSET

Integrated with processor

GRAPHICS

Integrated

Intel® UHD Graphics 620 ⁶
Intel® HD Graphics 620 ⁶
Intel® HD Graphics 610 ⁶

Discrete

NVIDIA® GeForce® MX130 (2 GB DDR5 dedicated) 7

6. HD content required to view HD images.

7. Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA® Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).



Features

DISPLAY

Touch

35.56 cm (14") diagonal FHD IPS eDP + PSR LED-backlit touch screen, 400 cd/m², 100% sRGB for IR camera and WWAN (1920 x 1080) 8,9,10

35.56 cm (14") diagonal FHD IPS eDP LED-backlit touch screen, 220 cd/m², 67% sRGB for IR camera and WWAN (1920 x 1080) $^{8.9.10}$

35.56 cm (14") diagonal FHD IPS eDP LED-backlit touch screen, 220 cd/m 2 , 67% sRGB for HD camera and WWAN (1920 x 1080)

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

Docking station model	Total number of supported displays (incl. the notebook display)	Max. resolutions supported	Dock Connectors	Technical limitations
HP UltraSlim Docking Station	3	Dual 2.5K @ 60Hz	2xDP, 1xVGA	Dual 2.5k only with both displays into DP
HP Elite 120W TB3 Dock	3	Dual 4K @ 60Hz	2xDP, 1xVGA, 1xTB, 1xUSB-C alt- mode	Dual 4k only with one display in to DP and + TB port or USB-C alt mode + TB port
HP Elite USB-C Dock G4	3	Dual 2K @ 60Hz Single 4K @ 60Hz (3840 x 1440)	1xHDMI, 2xDP	
HP USB-C Universal Dock	3	Dual 4K @ 60Hz Single 5K @ 60Hz	2xDP	
HP USB-C Travel Dock	2	Single 2K @ 60Hz	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time
HP USB-C Mini Dock (2	Single 4K @ 60Hz"	1xHDMI, 1xVGA	Single external display Only HDMI or VGA at the time



Features

STORAGE AND DRIVES

Primary M.2 Storage M.2 2280 SSD (NGFF)

128 GB SATA TLC ¹¹
256 GB PCIe[®] NVMe[™] Value ^{11,12}
256 GB SATA TLC ¹¹
512 GB PCIe[®] NVMe[™] TLC ^{11,12}

11. 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.

12. Not available with Intel® Celeron® processor.

MEMORY

Maximum Memory

16 GB DDR4-2400 SDRAM 13

Memory

16 GB DDR4-2400 SDRAM (1 X 16 GB) ¹³
16 GB DDR4-2400 SDRAM (2 X 8 GB) Dual channel ¹³
12 GB DDR4-2400 SDRAM (8 GB + 4 GB) Dual channel ¹³
8 GB DDR4-2400 SDRAM (1 x 8 GB) ¹³
8 GB DDR4-2400 SDRAM (2 x 4 GB) Dual channel ¹³
4 GB DDR4-2400 SDRAM (1 x 4 GB) ¹³

Memory Slots

2 SODIMM Both slots are upgradeable System runs at 2400 Supports Dual Channel Memory

13. 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.



Features

NETWORKING/COMMUNICATIONS

WWAN

HP lt4132 LTE/HSPA+ with GPS Mobile Broadband Module ¹⁵ Intel® XMM™ 7360 LTE-Advanced ¹⁵

14. 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.

15. WWAN module is an optional feature, requires factory configuration and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

AUDIO/MULTIMEDIA

Audio

Integrated microphone (Mono) - On non-webcam configs only Integrated microphone (Dual Array) - on webcam configs only 2 Stereo Speakers

Camera

720p HD camera ⁸ HD IR webcam ^{8,18}

8. HD content required to view HD images.

18. Internet access required.



Features

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard Full-sized chiclet keyboard Backlit full-sized chiclet keyboard

Pointing Device

Clickpad On/off control by driver Taps enabled as default

Function Keys

ESC: system information F1 - Display Switching

F2 - Blank

F3 - Brightness Down

F4 - Brightness Up

F5 - Speaker Mute

F6 - Volume Down

F7 – Volume Up

F8 - Mic Mute

F9 - Backlight Toggle (for backlit keyboard) or Blank

F10 - NumLock

F11 - Wifi Toggle

F12 - Sleep

Features

SOFTWARE AND SECURITY

Preinstalled Software BIOS

HP BIOSphere Gen4 19

HP DriveLock & Automatic DriveLock

BIOS Update via Network

Master Boot Record Security

Power On Authentication

Secure Erase 20

Absolute Persistence Module 21

Pre-boot Authentication

Software

HP Native Miracast Support 17

HP LAN-Wireless Protection

HP Velocity

HP ePrint + JetAdvantage 22

HP Hotkey Support - CMIT

HP Recovery Manager

HP Jumpstart

HP Support Assistant 23

HP Noise Cancellation Software

HP Host Based MAC Address Manager

HP PhoneWise 24

Buy Office (sold separately)

Manageability Features

HP Driver Packs 25

HP System Software Manager (SSM)

HP Manageability Integration Kit Gen2 26

Ivanti Management Suite 27

Client Security Software

HP Client Security Suite Gen4 including: 28

HP Security Manager ²⁹ (including Credential Manager, HP Password Manager, HP Spare Key)

Power On Authentication

HP Fingerprint Reader 30

HP Device Access Manager

Microsoft Defender 31



Features

Security Management

Secure Erase 20

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

Power-on password (viaBIOS)

Setup password (viaBIOS)

Support for chassis padlocks and cable lock devices

Integrated hood sensor

HP Sure Click 32

Security

TPM

Model:

Version:

Revision:

FIPS 140-2 Compliant:

IPv6 Certification:

Yes / No

MD5 Hash: Please follow the instructions below to access MD5 Hash.

Graphics (Intel Video Driver): TBD

WWAN: TBD WLAN: TBD

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?:

Yes/No

- 17. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.
- 19. HP BIOSphere Gen4 requires Intel® or AMD 8th Gen processors. Features may vary depending on the platform and configurations.
- 20. Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method.
- 21. 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.
- 22. HP ePrint Driver requires an Internet connection to HP web-enabled printer and HP ePrint account registration (for a list of eligible printers, supported documents and image types and other HP ePrint details, see www.hp.com/go/eprintcenter). Print times and connection speeds may vary.
- 23. HP Support Assistant requires Windows and Internet access.
- 24. HP PhoneWise Client may not be available with HP Workwise. For supported platforms and HP PhoneWise system requirements see www.hp.com/qo/HPPhoneWise.
- 25. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 26. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html
- 27. Ivanti Management Suite subscription required.



Features

28. HP Client Security Suite Gen 4 requires Windows and Intel® or AMD 8th generation processors.

29. 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.

30. HP Fingerprint Sensor sold separately or as an optional feature.

31. Microsoft Defender Opt in and internet connection required for updates.

32. HP Sure Click is available on select HP platforms and supports Microsoft® Internet Explorer, Google Chrome, and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode. Check http://h20195.www2.hp.com/v2/GetDocument.aspx?docname=4AA7-0922ENW for all compatible platforms as they become available.

POWER

Power Supply

HP Smart 45 W External AC power adapter ³⁴ HP Smart 65 W External AC power adapter ³⁴

Primary Battery

HP Long Life 3-cell, 48 Wh Li-ion prismatic 35,36

Power Cord

3-wire plug (C5), 1.8m, Sticker, Conventional 3-wire plug (C5), 1.0m, Sticker, Conventional

Battery Life

Up to 13 hours 37

- 34. Availability may vary by country.
- 35. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 36. Supports HP Fast Charging.
- 37. 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

Weight

Starting at 3.8 lb ³⁸ Starting at 1.72 kg ³⁸

Dimensions ($w \times d \times h$)

12.99 x 9.13 x 0.78 in 33 x 23.2 x 1.99 cm

38. Weight will vary by configuration.



Features

PORTS/SLOTS

Ports

1 USB 3.1 Type-C[™] Gen 1 (Power delivery, DisplayPort[™]) 1 USB 3.0 (charging) 1 USB 3.0 1 HDMI 1.4b ³⁹ 1 RJ-45 ³⁹ 1 headphone/microphone combo 1 AC power

Expansion Slots

1 SD Media Reader Slot Supports SDXC

39. Cables are not included.

SERVICE AND SUPPORT

HP Services offers 3-year and 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. 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/cpc. 40

40. 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.

CERTIFICATION AND COMPLIANCE

ENERGY STAR® certified EPEAT® Gold ⁴¹ Low halogen ⁴² TCO 5.0 Certified

41. EPEAT® registered where applicable. EPEAT registration varies by country. See http://www.epeat.net for registration status by country. Search keyword generator on HP's 3rd party option store for solar generator accessories at www.hp.com/go/options.
42. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Nominal Operating 19V

Requirements (AC Power) Voltage

Average Operating PowerWin 10Integrated graphics5.71WDiscrete Graphics6.78W

Max Operating Power Discrete < 65W

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 200 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 UL Yes Certifications CSA Yes

FCC Compliance Yes

ENERGY STAR 6.0[®] Selected models [34]

EPEAT Registered Gold in United States [32]

ICES Yes
Australia / Yes
NZ A-Tick Compliance Yes
CCC Yes

Yes CCC **Japan VCCI Compliance** Yes KC Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes GOST Yes

Saudi Arabian Compliance Yes

(ICCP)

SABS Yes UKRSERTCOMPUTER Yes



Technical Specifications

DISPLAYS

Panel LCD 14 inch FHD (1920x1080) WLED UWVA 45% cg 220nits eDP slim NB Touch

Outline Dimensions (W x H) 316.112 x 197.98 max.

Active Area 309.312 x 173.988

Weight <413g max.

Diagonal Size 14.0"

Thickness 3.2mm max.

Interface eDP 1.2

Surface Treatment Bright-View

Touch Enabled Yes

Contrast Ratio 600:1 (typical)

Refresh Rate 60Hz

Brightness 220 nits typical (Panel Only

Pixel Resolution 1920 x 1080 (FHD)

Format RGB
Backlight LED
Color Gamut Coverage 45%

Color Depth 6 bits + Hi FRC

Viewing Angle UWVA 85/85/85

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

Panel LCD 14 inch FHD Ou (1920x1080) WLED UWVA 72% D) cg 400nits eDP 1.3 + PSR slim Ac

Outline Dimensions (W x H x 316.11 x 197.98 max.

Active Area 309.31 x 173.99

Weight <285g max.

Diagonal Size 14.0"

Thickness 3.0mm max.

Interface eDP 1.3 + PSR (2 lane)

Surface Treatment Bright-View

Touch Enabled Yes

Contrast Ratio 600:1 (typical)

Refresh Rate 60Hz

Brightness 400 nits typical (Panel Only)

Pixel Resolution 1920 x 1080 (FHD)



Technical Specifications

Format RGB

Backlight LED

Color Gamut Coverage 72%

Color Depth 6 bits + Hi FRC

Viewing Angle UWVA 85/85/85

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

STORAGE

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

 Maximum Sequential Read
 Up To 520 MB/s

 Maximum Sequential Write
 Up To 450 MB/s

 Logical Blocks
 250,069,680

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

Features DIPM; TRIM; DEVSLP

256 GB 2280 PCIe NVMe Value Form Factor Solid State Drive

Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

 Interface
 PCIe NVMe Gen3X4

 Maximum Sequential Read
 Up To 1700 MB/s

 Maximum Sequential Write
 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



Technical Specifications

512 GB 2280 M2 PCIe NVMe TLC Solid State Drive Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Weight
 0.02 lb (10 g)

Interface PCIe NVMe Gen3X4
Maximum Sequential Read Up To 2600 MB/s
Maximum Sequential Write Up To 1400 MB/s
Logical Blocks 1,000,215,216

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

Features TRIM; L1.2



Technical Specifications

NETWORKING/COMMUNICATIONS

HP lt4132 LTE/HSPA+ Mobile Broadband Module (Macan)¹

HP lt4132 LTE/HSPA+ 4G Technology/Operating

bands

LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3) MHz,

850 (Band 5), 2600 (Band 7), 900 (Band 8) MHz,

800 (Band 20), 700 (Band 28) MHz.

HSPA+: 2100 (Band 1), 1900 (Band 2), 850 (Band 5), 900 (Band 8) MHz E-GPRS: 1900 (Band 2), 1800 (Band 3), 850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 10 LTE Specification CAT.4, 20MHz BW

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

E-GPRS: Class B, Multi-slot class 12, coding schemes CS1 - CS4

and MSC1 - MSC9

GPS Standalone, A-GPS (MS-B and LTO)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz

Maximum data rates LTE: 150 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload) EDGE: 236.8 kbps (Download), 236.8 kbps (Upload) GPRS: 85.6 kbps(Download), 85.6 kbps (Upload)

Maximum output power

LTE: 23 dBm

HSPA+: 23.5 dBm

E-GPRS 1900/1800: 26 dBm E-GPRS 900/850: 27 dBm GPRS 1900/1800: 29.5 dBm GPRS 900/850: 32.5 dBm

Maximum power consumption

LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average) E-GPRS: 2,600 mA (peak); 500 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 6 g

Dimensions 42 x 30 x 2.3 mm

(Length x Width x

Thickness)

1. Wireless access point and Internet service is required. Availability of public wireless access point is 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



Technical Specifications

Intel® XMM™ 7360 LTE-Advanced CAT9 (Pandora) ¹ Technology/Operating

bands

FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3),

1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30),

1700/2100 (Band 66).

TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41).

HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4),

850 (Band 5), 900 (Band 8) MHz

Wireless protocol

standards

3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to

450Mbps; UL 20MHz throughput up to 50Mbps

WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification

GPS Standalone, A-GPS (MS-A, MS-B)

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou 1561.098

MHz

Maximum data rates LTE: 450 Mbps (Download), 50 Mbps (Upload)

DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)

Maximum output power LTE: 23 dBm

HSPA+: 23.5 dBm

Maximum powerLTE: 1,200 mA (peak); 900 mA (average)consumptionHSPA+: 1,100 mA (peak); 800 mA (average)

Form Factor M.2, 3042-S3 Key B

Weight 5.8 q

Dimensions 42 x 30 x 2.3 mm

(Length x Width x

Thickness)

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.



Technical Specifications

POWER

HP 45W Smart AC adapter Dimensions 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 5 msec at 115 VAC input

Output current limit <8.0A

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

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

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

temperature

Altitude 0 to 16,400 ft (0 to 5,000 m)

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. UL6

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 Smart AC adapter Dimensions 107.0x47.0x30.0mm

Weight unit: 250g +/- 10g

Input Efficiency 88.0 % at 115 Vac and 89.0 % at 230 Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.7 A at 90 Vac

Output Output power 65W

DC output 19.5V

Hold-up time 5ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

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

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,

Technical Specifications

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-On Dimensions (H x W x L) (48 WHr)

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

Energy

Voltage 11.4V

Amp-hour capacity

4.212Ah

Watt-hour capacity

48Wh

Temprature

Operating (Charging)

32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 122° F (-10° to 60° C)

Fuel Gauge LED

N/A

COUNTRY OF ORIGIN

China

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

•			•
Туре	Description		Part #
Cases	HP Essential Top Load Case	H2W17AA#xxx	
	HP Essential Backpack (up to 15.6")	H1D24AA	
	HP Essential Messenger Case (up to 17.3")	H1D25AA	
Docking	HP USB-C Dock G4	3FF69AA#xxx	
	HP USB-C Universal Dock	1MK33AA#xxx	
	HP USB-C Universal Dock NF	3DV65AA#xxx	
	HP USB-C Mini Dock	1PM64AA	
	HP USB Travel Dock	TOK30AA	
	HP Thunderbolt Dock 120W G2	2UK37AA#xxx	
	HP TB Dock G2 w/ Combo Cable	3TR87AA#xxx	
	HP TB Dock 120W G2 w/ Audio	3YE87AA#xxx	
	HP Thunderbolt Dock Audio Module	3AQ21AA	
	HP TB Dock 120W G2 cable	3XB94AA	
	HP TB Dock G2 combo cable	3XB96AA	
	HP Adjustable Display Stand	AW663AA	
Input/Output	HP Slim USB Keyboard and Mouse	T6T83AA#xxx	
	HP Slim Wireless Keyboard and Mouse	T6L04AA#xxx	
	HP USB Collaboration Keyboard	Z9N38AA#xxx	
	HP Wireless Collaboration Keyboard	Z9N39AA#xxx	
	HP USB Essential Keyboard and Mouse	H6L29AA	
	HP Ultra Mobile Wireless Mouse	H6F25AA#xxx	
	HP USB Premium Mouse	1JR32AA	
	HP Wireless Premium Mouse	1JR31AA	
	HP Elite Presenter Mouse	2CE30AA	
	HP Comfort Grip Wireless Mouse	H2L63AA	
	HP 3-Button USB Laser Mouse	H4B81AA	
	HP USB Travel Mouse	G1K28AA	
	HP HDMI to DVI Adapter	F5A28AA	
	HP USB-C to DP	N9K78AA	
	HP USB-C to USB-A Hub	Z6A00AA	
	HP Stereo 3.5mm Headset	T1A66AA	
	HP Stereo USB Headset	T1A67AA	
	HP Active Pen with Spare tips	1FH00AA	
Power	HP 45W Smart AC Adapter 4.5mm	H6Y88AA#xxx	
	HP 65W Smart AC Adapter	H6Y89AA#xxx	
	HP 65W Slim AC Adapter	H6Y82AA#xxx	
	HP Notebook Power Bank	N9F71AA#xxx	
	HP 45W 4.5mm Smart AC Adapter (Japan Only)	L6F60AA#ABJ	
Storage	HP External USB Optical Drive	F2B56AA	



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

	HP 500GB 7200rpm HDD	F3B97AA	
Security	HP Essential Combination Lock	TOY16AA	
	HP Combination Lock	TOY15AA	
	HP Keyed Cable lock	TOY14AA	
	HP Keyed Cable Lock 10mm	T1A62AA	
UCC	HP Conferencing Keyboard	K8P74AA#xxx	
	HP Speaker Phone	K7V16AA	
	HP Wired Headset	K7V17AA	
	HP UC Wireless Mono Headset	W3K08AA	
	HP UC Wireless Duo Headset	W3K09AA	
Displays	HP EliteDisplay E243 23.8-inch Monitor	1FH47AA	
	HP EliteDisplay E243i 23.8-inch Monitor	1FH49AA	
	HP EliteDisplay E273 27-inch Monitor	1FH50AA	
	HP EliteDisplay E273m 27-inch Monitor	1FH51AA	
	HP EliteDisplay E273m 27-inch Monitor	1FH51AA	



Summary of Changes

Date of change:	Version History:		Description of change:
June 14, 2018	v1 to v2	Update	Memory, display and displays sections updated according to current MAT
July 2, 2018	v2 to v3	Update	At a glance and storage section
July 4, 2018	v3 to v4	Update	Input/Output
July11, 2018	V4 to v5	Update	HP Active Pen with Spare tips added to Options section

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