

1	IR I	LED

- 2 Internal Microphone (2)
- 3 **IR Camera**
- Webcam

- 5 Webcam LED
- Camera Shutter 6
- 7 Touchpad





Sides

- USB Type-C® 40Gbps 1 2
 - USB Type-C® 10Gbps

- Stereo headphone/microphone combo jack 3
- USB-A 3.2 Gen2 (support charging)



HP EliteBook Ultra G1q 14 inch Notebook AI PC

PRODUCT NAME

HP EliteBook Ultra G1q 14 inch Notebook AI PC

OPERATING SYSTEM

Preinstalled Windows® 11 Pro Next Gen Premium¹

Windows® 11 Home NextGen Premium- HP recommends Windows 11 Pro for business

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 is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

PROCESSORS

Processor ^{2,3,4}	Cores	L3 Cache	Max boast Frequency ⁴	Base Frequency
Qualcomm Snapdragon Snapdragon® X Elite X1E-78-100	12 cores	8 MB	3.40 GHz	3.40 GHz
processor				

Processor Family

Qualcomm[®] Snapdragon[™] processor

- 2. Multi-Core 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. Qualcomm's numbering is not a measurement of clock speed.
- 3. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
- 4. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.



HP EliteBook Ultra G1q 14 inch Notebook AI PC

GRAPHICS

Supports

Qualcomm[®] Adreno™ Graphics

DISPLAY

Touch

35.6 cm (14") diagonal, 2.2K (2240 x 1400), Bent, LCD, UWVA, Bright View, WLED + Low Blue Light, 300 nits, low power, sRGB 100% 5,6,7

Display Size (Diagonal)

35.6 cm (14.0")

- 5 HD content required to view HD images.
- 6. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 7. Actual brightness will be lower with touchscreen or Sure View.



DOCKING (Sold Separately)

Docking station model name HP USB-C Dock G5

Total number of supported displays (incl.the

notebook) display)

Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port.

High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @ 60Hz

on HDMI port.

3

Dock Connectors 1x HDMI 2.0, 2x DisplayPort 1.4

Technicallimitations Maximum resolution and display support is dependent on the maximum capability

of the notebook.

Highest resolution with dual displays is two 8K@ 60Hz host in High Resolution

mode.

Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K

UHD@ 30 Hz on HDMI in Multi-function mode.

The highest resolution for a non-Thunderbolt host in Multi-function mode is a single

5K dual cable (using both DP ports) + (1) 4K on HDMI port.



HP EliteBook Ultra G1q 14 inch Notebook AI PC

STORAGE AND DRIVES

Primary Storage

1 TB PCle® Gen4x4 NVMe™ SSD 8 512 GB PCle® Gen4x4 NVMe™ SSD 8 512 GB PCle® NVMe™ QLC 8

8. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.



HP EliteBook Ultra G1q 14 inch Notebook AI PC

MEMORY

Maximum Memory

16GB LPDDR5x-8400 (1 x 16 GB) MT/s RAM 9

Memory

16GB LPDDR5x-8400 (1 x 16 GB) MT/s RAM 9

9. 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

WLAN

Qualcomm FastConnect 6900 Wi-Fi 6E Dual Band Simultaneous (DBS) WiFiCx Network Adapter ^{10,11,12,13} Qualcomm FastConnect 7800 Wi-Fi 7 High Band Simultaneous (HBS) Network Adapter ^{10,11,12,13}

- 10. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- 11. 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.
- 12. Intel® 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- 13. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires Windows 11 24H2, select Intel® processor, and a Wi-Fi 7 router, sold separately. Wi-Fi 7 is backwards compatible with prior 802.11 specs. Available in countries where Wi-Fi 7 is supported. The specification for 802.11BE is a draft specification and is not final. If the final specification differs from the draft specification, it may affect the ability of the device to communicate with other 802.11BE devices.



HP EliteBook Ultra G1q 14 inch Notebook AI PC

AUDIO/MULTIMEDIA

Audio

Audio by Poly Studio Integrated dual array microphone

Speaker Power

8 Ohm/1W per dual speaker

Camera

5MP+Infrared camera



KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full-size, backlit, Atmosphere Blue color keyboard HP Imagepad

Pointing Device

Clickpad with Image Sensor

Function Keys

ESC - System information

F1 - Display Switching

F2 - Opens the Calculator

F3 - Brightness Down

F4 - Brightness Up

F5 - Blank or Backlit Toggle

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play and Pause

F11 - HP Programmable Key

F12 - Snipping Mode



SOFTWARE AND SECURITY

Software

Adobe Offer¹⁴ myHP¹⁵ HP Sure Sense¹⁶ Phishing Protection browser plugin

Security Management

HP Wolf Pro Security NGAV

1st Source

Model: sTPM (a.k.a SPU TPM)

To support Pluton TPM (sTPM, uses Qualcomm SPU running Microsoft firmware)

Does the BIOS implement the ISO/IEC 19678:2015 (formerly NIST 800-147) guidelines?: Yess

UEFI version: 2.9

Class: 3

14. Click on Adobe icon in the start menu to take advantage of a 30 day trial membership of select Adobe software. The software is tied to the device and is not transferrable. You may also choose to enter your payment details to auto-renew and continue to use the software beyond the 30 day trial. See Adobe for complete details.

15. myHP requires Windows 10 or higher OS.

16. HP Sure Sense is available on select HP PCs with Windows 10 Pro and higher and is not available with Windows 10 Home.



POWER

Power Supply

HP 65W USB Type-C® Slim Straight adapter 17

Battery

HP Long Life 3 cell, 59Whr Polymer 18,19

Battery Recharge Time

50% in 30 minutes 20

Power Cord

3-wired plug- 1.0m ¹⁷

Battery Life

Up to 26 hours with 59 whr battery (HP Long Life 3-Cell, 59 Whr Polymer, Snapdragon® X Elite X1E-78-100, Display set to 200 nits display, 16GB LPDDR5x memory, 1TB SSD)²¹

- 17. Availability may vary by country.
- 18. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 19. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.
- 20. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode.
- Power adapter minimum of 65 watts required for battery capacities 56Whr or less.
- Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr.
- Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr.

After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

21. Video Playback 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



WEIGHT & DIMENSIONS

Product Weight²²

Starting at 2.97 lbs Starting at 1.349 kg

Product Dimensions (w x d x h) 23

312.9 mm (W) x 223.5 mm (D) x 8.47 mm (front)/ 11.23 mm (rear) Maximum height 14.4 (mm)

Pallet Dimensions (w x d x h) 24

12-15" boxes (305mm height): 1200mm x 1000mm x 1080mm

- 22 Weight will vary by configuration and components.
- 23. Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends.
- 24. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details. For detailed packaging information, access the HP Commercial Notebooks Packaging Guide.



HP EliteBook Ultra G1q 14 inch Notebook AI PC

PORTS/SLOTS

Left side

1 USB Type-C[®] 40Gbps; 1 USB Type-C[®] 10Gbps

Right side

1 USB-A 3.2 Gen2 (support charging)1 stereo headphone/microphone combo jack



HP EliteBook Ultra G1q 14 inch Notebook AI PC

SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. 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/cpc. ²⁵

25. 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 http://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.



SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage 20

Max Operating Power UMA 65W

Temperature

Operating: 5° to 35° C (41° to 95° F)

Non-operating: -20° to 60° C (-4° to 140° F)

Relative Humidity

Operating: 10% to 90 %
Non-operating: 5% to 95 %

Altitude (unpressurized)

Operating: -15m to 3,048 m (-50 ft to 10,000 ft)

Non-operating: -15m to 12,192 m (-50 ft to 40,000 ft)

Planned Industry Standard Certifications

Regulatory Model Number TPN-W163

CSA/UL 62368-1 Yes (UL62368-1 only)

ENERGY STAR® Yes FCC/ICES/CISPR/VCCI Yes **CE MARKING** Yes **GS Mark** No China CCC/SRRC/CEL Yes Taiwan BSMI/NCC No Korea KCC/KC/KES Yes **Ukraine NSoC/TEC** No

EAEU Compliance No
Saudi Arabian Compliance No
TCO Yes
EPEAT Gold Yes
Low Blue Light Yes
WW RoHS Yes



DISPLAYS

1. Actual brightness will be lower with touchscreen.

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

14.0 in 2.2K (2240 x 1400) Anti-Glare UWVA WLED+LBL sRGB 100 300 DBTSP eDP 1.4+PSR2 Low-Power flat VAZ LCD Panel Outline Dimensions (W x H) 306.85 x 197.27 (max) w/o PCB

306.85 x 204.95 (max) w/ PCB

Active Area 301.59 x 188.5 (typ)

Weight 195 (max)

Diagonal Size 14

Surface Treatment Bright View

Touch Enabled Yes

 Contrast Ratio
 1200:1 (typ)

 Refresh Rate
 60 Hz(typ)

 Brightness
 300 nits¹ (typ)

 Pixel Resolution - Format
 2240 x 1400 (2.2K)

BacklightWLEDPixel ResolutionRGBColor Gamut CoveragesRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 1.5 (max) / 1.8 (max)

150nits max/ 200nits max))



STORAGE

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

Three Layer Cell

Form Factor M.2 2280

Capacity 1TB NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read7000 MB/s ±20%Maximum Sequential Write7000 MB/s ±20%Logical Blocks2000, 409, 264FeaturesPyrite 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe

Value

Form Factor M.2 2280

Capacity512 GBNAND TypeQLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read4400 MB/s ±20%Maximum Sequential Write4400 MB/s ±20%Logical Blocks1000, 215, 216FeaturesPyrite 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280

Capacity512GBNAND TypeTLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6600 MB/s ±20%Maximum Sequential Write5100 MB/s ±20%Logical Blocks1000, 215, 216FeaturesPyrite 2.0; TRIM; L1.2



NETWORKING / COMMUNICATION

 Qualcomm Wi-Fi 6E WCN6856 +
 Wireless LAN Standards
 IEEE 802.11a

 BT 5.3¹
 IEEE 802.11ac

 IEEE 802.11ax
 IEEE 802.11b

 IEEE 802.11d
 IEEE 802.11e

 IEEE 802.11a
 IEEE 802.11a

IEEE 802.11g IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11n

Interoperability WFA Certification ID: WFA127487

Frequency Band • 802.11b/g/n/ax

2.402 – 2.482 GHz • 802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz

6.535 – 6.875 GHz 6.895 – 7.115 GHz

Data Rates • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)
 802.11ax: MCS0 ~ MCS13, (20MHz, 40MHz, 80MHz, 160MHz)

• 802.11b: 1, 2, 5.5, 11 Mbps

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

Modulation Direct Sequence Spread Spectrum

4096AM, 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct

Sequence Spread Spectrum, OFDM, QPSK

Security² • 802.1x authentication

• AES-CCMP: 128 bit in hardware

• IEEE 802.11i

• IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g •

mode only
• WAPI

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

WPA2 certification

• WPA3 (personal) certification

Network Architecture Models Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)



 Roaming
 IEEE 802.11 compliant roaming between access points

 Output Power³
 • 802.11b: +18dBm minimum

 • 802.11g: +14.5dBm minimum
 • 802.11a: +14dBm minimum

 • 802.11n HT20(2.4GHz): +16dBm minimum
 • 802.11n HT40(2.4GHz): +13.5dBm minimum

 • 802.11n HT40(5GHz): +13.5dBm minimum
 • 802.11ac VHT80(5GHz): +12.5dBm minimum

 • 802.11ac VHT160(5GHz): +11dBm minimum
 • 802.11ax HE40(2.4GHz): +10.5dBm minimum

802.11ax HE80(5GHz): +8dBm minimum
802.11ax HE160(5GHz): +7.5dBm minimum
802.11ax HE80(6GHz): +8dBm minimum

• 802.11ax HE160(6GHz): +7.5dBm minimum

Power Consumption • Transmit mode: 2.7 W

• Receive mode: 1.6 W

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

· Radio disabled: 8 mW

Power Management Receiver Sensitivity⁴

Antenna type

ACPI and PCI Express compliant power management

802.11b, 1Mbps: -95.75dBm maximum
802.11b, 11Mbps: -87.25dBm maximum
802.11a/g, 6Mbps: -93.75dBm maximum
802.11a/g, 54Mbps: -75.75dBm maximum
802.11n, MCS07: -73.75dBm maximum
802.11n, MCS15: -73.75dBm maximum

802.11ac, MCS0(VHT80): -87.75dBm maximum
802.11ac, MCS9(VHT80): -63.75dBm maximum
802.11ac, MCS9(VHT160): -61.25dBm maximum
802.11ax, MCS11(HE40): -60.25dBm maximum
802.11ax, MCS11(HE80): -55.75dBm maximum
802.11ax, MCS11(HE160): -53.25dBm maximum

Vendor: WNC/HONGBO

Form Factor M.2 2230

Dimensions $22.0 \pm 0.15 \times 30.0 \pm 0.15 \text{ mm/height: } 2.38 \text{ mm (maximum)}$

Weight Type 2230: 2.5 g

Operating Voltage 3.3 v +/- 5 %; 1.8 v +/- 5 %

HP Integrated Module with Bluetooth

4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3 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: 1Mbps data rate and 2Mbps data rate.

Legacy: Synchronous Connection Oriented links, 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 I Bluetooth

device with a maximum transmit power of + 14 dBm for BR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth Software Supported

Link Topology

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI

Certifications FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300

328, ETSI 301 893, ETSI 303 687

Bluetooth Profiles Supported Based on Microsoft Windows Bluetooth Software

Qualcomm Wi-Fi 7 WCN7851 + BT5.4

Wireless LAN Standards

IEEE 802.11a
IEEE 802.11ax
IEEE 802.11be
IEEE 802.11b
IEEE 802.11d
IEEE 802.11e
IEEE 802.11q

IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11n

Interoperability WFA Certification ID: WFA129484

Frequency Band • 802.11b/g/n/ax/be

2.402 – 2.482 GHz • 802.11a/n/ac/ax/be 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.925 – 7.125 GHz

Data Rates • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)
 802.11ax: MCS0 ~ MCS13, (20MHz, 40MHz, 80MHz, 160MHz)



802.11be: MCS0 ~ MCS13, (20MHz, 40MHz, 80MHz, 160MHz,

320MHz)

• 802.11b: 1, 2, 5.5, 11 Mbps

• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

• 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)

Modulation Direct Sequence Spread Spectrum

4096QAM, 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK,

Direct Sequence Spread Spectrum, OFDM, QPSK

Security² 802.1x authentication

AES-CCMP: 128 bit in hardware

IEEE 802.11i

IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g mode

only WAPI

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

WPA2 certification
WPA3 certification

Network Architecture Models Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

RoamingIEEE 802.11 compliant roaming between access points **Output Power³**2.4GHz (MIMO, typical):

• 802.11b: +18dBm • 802.11g: +16dBm

802.11n/ac/ax (HT20/VHT20/HE20): +13dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +11.5dBm

5GHz (MIMO, typical): • 802.11a: +15dBm

802.11n/ac/ax (HT20/VHT20/HE20): +11dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +11dBm

• 802.11ac/ax (VHT80/HE80): +11dBm

802.11ax HE160: +11dBm
6GHz (MIMO, typical)::
802.11ax HE20: +10dBm
802.11ax HE40: +10dBm
802.11ax HE80: +10dBm
802.11ax HE160: +10dBm
802.11be EHT320: +9dBm

Power Consumption

• Transmit mode : 4.2 W

• Receive mode : 2.5 W

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

• Radio disabled: 8 mW

Power Management ACPI and PCI Express compliant power management



Receiver Sensitivity⁴ 2.4GHz (SISO):

802.11b, 11Mbps: -89.25dBm maximum
802.11g, 54Mbps: -75.75dBm maximum
802.11n, MCS7: -72.75dBm maximum
802.11ac, MCS9: -67.25dBm maximum
802.11ax, MCS11(HE40): -60.75dBm maximum

5GHz (SISO):

802.11a, 54Mbps: -74.75dBm maximum
802.11n, MCS07: -71.75dBm maximum
802.11ac, MCS9: -60.25dBm maximum

•802.11ax, MCS11(HE80/HE160): -53.75dBm maximum

6GHz (SISO):

•802.11ax, MCS13: -46.75dBm maximum

•802.11be, MCS13(EHT320): -44.25dBm maximum

Antenna type Vendor: WNC/HONGBO

Form Factor M.2 2230

Dimensions 22.0 \pm 0.15 \times 30.0 \pm 0.15 mm/height: 2.38 mm (maximum)

Weight Type 2230: 2.6 g

Operating Voltage 3.3 v +/- 5 %; 1.8 v +/- 5 %

HP Integrated Module with Bluetooth

4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Technology

Bluetooth Specification 4.0/4.1/4.2/5.0/5.1/5.2/5.3/5.4 Compliant

Frequency Band

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

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2402 to 2480 MHz

BLE: 1Mbps data rate and 2Mbps data rate.

Legacy: Synchronous Connection Oriented links, 64 kbps, voice

channels.

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps asymmetric (3-DH5) or 864 kbps symmetric (3-EV5) The Bluetooth component shall operate as a Class I Bluetooth device with a maximum transmit power of + 14 dBm for BR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW.

Bluetooth Software Supported

Link Topology

Transmit Power

Microsoft Windows Bluetooth Software

Power Management Microsoft Windows ACPI

Certifications FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300

328, ETSI 301 893, ETSI 303 687

Bluetooth Profiles Supported Based on Microsoft Windows Bluetooth Software



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- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. 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/g (OFDM modulation).



POWER

1. Actual battery Watt-hours (Wh) will vary from design capacity. Battery capacity will naturally decrease with shelf life, time, usage, environment, temperature, system configuration, loaded apps, features, power management settings and other factors.

HP 65W USB Type-C® Slim Straight adapter **Dimensions** 3.819 x 2.106 x 0.827 in (9.7 x 5.35 x 2.1 cm)

Weight 200g(+/-10g) (Not including power cord. Power cord varies by

country.)

Input Voltage 100-240Vac

Input Efficiency 81.50% min at 115 Vac/ 230 Vac @5.00V

86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V 89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V

Input Frequency Range 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output Power 5V/15W

9V/27W 12V/60W 15V/65W 20V/65W

DC Output 5V/9V/12V/15V/20V

Hold-up Time 100% load 5ms at 115 Vac input

Output Over Current < 8.0A

Protection

AC Connector C6

DC Connector USB type C

DC Cable Material PVC

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)

Humidity20% to 95%Storage Humidity10% to 95%

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

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

EN62368-1:2014+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC(Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI,

UAE, UKCA DoC



HP EliteBook Ultra G1q 14 inch Notebook AI PC

HP 3-cell Long Life Li-Ion (59WHr)

Weight 0.215 kg +/-10 g (0.473 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 448078

Energy

Voltage 11.58V Amp-hour capacity 5.11Ah Watt-hour capacity 59.19Wh

Temperature

Operating (Charging) 32° to 113 °F (0°C ~ 45°C) Operating (Discharging) 14° to 140 °F (-10°C ~ 60°C)

Optional Travel Battery

Available

No

AUDIO

Codec Qualcomm WCD9385
Audio I/O Ports 3.5mm Headset: CTIA only
Internal Speaker Amplifier Qualcomm Agstic WSA8845 x 2

Multi-streaming Capable Yes

Sampling 48KHz/16 bits

Internal Speaker Yes



OPTIONS AND ACCESSORIES (SOLD SEPARATELY AND AVAILABILITY MAY VARY BY COUNTRY)

Category	Description	Part Number
Cases	HP 115 15.6 Laptop Backpack	8DV45AA
	HP 215 15.6 Laptop Backpack	35L98AA
	HP 225 15.6 Laptop Backpack	2P7U6AA
	HP 235 15.6 Laptop Backpack	35M00AA
	HP 315 15.6 Laptop Backpack	35L97AA
	HP Campus blue Backpack	7K0E5AA
	HP Campus green Backpack	7K0E4AA
	HP Campus XL Marble Stone Backpack	7K0E2AA
	HP Campus XL Tie Dye Backpack	7K0E3AA
	HP Prelude 15.6 Backpack	1E7D6AA
	HP Prelude 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Travel 25 Liter 15.6 Iron Gray Laptop Backpack	6H2D8AA
	HP Travel 18 Liter 15.6 Iron Gray Laptop Backpack	6H2D9AA
Commodity	HP USB DVD-Writer External ODD	F2B56AA
Docking	HP USB-C Dock G5	5TW10AA
Keyboard/Combo	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP 125 Wired Keyboard	266C9AA
	HP 320K USB Wired Keyboard	9SR37AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
Mouse	HP 125 Wired Mouse	265A9AA
	HP 320M Wired Mouse	9VA80AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP 128 Laser Wired Mouse	265D9AA
Adapter	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA



HP EliteBook Ultra G1q 14 inch Notebook AI PC

	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to VGA Adapter	N9K76AA
Hub	HP USB-C Travel Hub G3	86S97AA
	HP 4K USB-C Multiport Hub	6G843AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C™ G2 Travel Dock	7PJ38AA
Power	HP USB-C 65W Laptop Charger	671R3AA
Video	HP USB-A 325 Webcam	53X27AA
	HP Streaming 965 Webcam	695J5AA
	HP 625 Webcam	6Y7L1AA



HP EliteBook Ultra G1q 14 inch Notebook AI PC

CHANGELOG

Date of change	Version History	Description of change
	V1	

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