Overview

HP EliteBook 865 16 inch G11 Notebook PC

Left

1. Internal Microphone (2)
2. Webcam LED
3. Webcam

4. Camera Shutter
5. Touchpad

Not all configuration components are available in all regions/countries.
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Overview

Sides

1. HDMI 2.1

2. Super Speed USB Type-A 5Gbps signaling rate Power charging

3. Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power Delivery DisplayPort™ 1.4 [1]

4. Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power Delivery DisplayPort™ 1.4 [1]

5. Power Indicator LED

6. Smart Card Reader (Integrated)

7. Nano SIM card slot (Integrated)

8. Security lock slot (Integrated)

9. Super Speed USB Type-A 5Gbps signaling rate

10. Headphone/mic combo jack

1. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.

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PRODUCT NAME

HP EliteBook 865 16 inch G11 Notebook PC

OPERATING SYSTEMS

Preinstalled	Windows 11 Home - HP recommends Windows 11 Pro for business [1]
	Windows 11 Home Single Language - HP recommends Windows 11 Pro for business [1]
	Windows 11 Pro [1]
	Windows 11 Pro Education [1]
	Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing Agreement) [1]
	FreeDOS

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 [2,3,4,5,6]	Cores	Threads	L3 Cache	Max boast Frequency [5]	Base Frequency	Pro	NPU (AMD Ryzen™ AI)
AMD Ryzen™ 7 PRO 8840U	8 cores	16	16 MB	5.10 GHz	3.30 GHz	X	Up to 16 TOPS
AMD Ryzen™ 7 8840U	8 cores	16	16 MB	5.10 GHz	3.30 GHz		Up to 16 TOPS
AMD Ryzen™ 7 PRO 8840HS	8 cores	16	16 MB	5.10 GHz	3.30 GHz	X	Up to 16 TOPS
AMD Ryzen™ 7 8840HS	8 cores	16	16 MB	5.10 GHz	3.30 GHz		Up to 16 TOPS
AMD Ryzen™ 5 PRO 8540U	6 cores	12	16 MB	4.90 GHz	3.20 GHz	X	Not Available
AMD Ryzen™ 5 8540U	6 cores	12	16 MB	4.90 GHz	3.20 GHz		Not Available
AMD Ryzen™ 5 PRO 8640HS	6 cores	12	16 MB	4.90 GHz	3.30 GHz	X	Up to 16 TOPS
AMD Ryzen™ 3 8440U	4 cores	8	8 MB	4.70 GHz	3.00 GHz		Not Available

Processor Family

AMD Ryzen™ 7 PRO processor

AMD Ryzen™ 7 processor

AMD Ryzen™ 5 PRO processor

AMD Ryzen™ 5 processor

AMD Ryzen™ 3 processor

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2. 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. AMD'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.
5. 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 .
6. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors.

GRAPHICS

Integrated
AMD Radeon™ Graphics

Supports
UMA: Support HDMI 2.1 [7]

7. HDMI cable sold separately

DISPLAY

Non-Touch
40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED + Low Blue Light, 1000 nits, sRGB 100%, HP Sure View reflect integrated privacy screen [8, 9, 10, 11]
Non-Touch 40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, + Low Blue Light , 800 nits, sRGB 100%, HP Sure View 5 integrated privacy screen [9,10,11,12]
40.6 cm (16") diagonal, 2.8K (2880 x 1800), Bent, OLED, 120Hz, UWVA, BrightView, OLED + Low Blue Light, 400 nits, DCI-P3 100% [8, 9, 11]
40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED + Low Blue Light, 400 nits, low power, sRGB 100% [8, 9, 11]
40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED, 300 nits, NTSC 45%[9, 11]

Touch
40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, touch, UWVA, anti-glare, WLED, 300 nits, NTSC 45%[8, 9, 11]

Display Size (Diagonal)
30.6 cm (16.0")

Screen to Body Ratio
89.30%

Aspect Ratio
16.10

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Max Hinge Open Angle
172±3°

8. HD content required to view HD images.
9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
10. HP Sure View Reflect available for configuration until Summer/Fall 2024; Sure View 5 available thereafter.
11. Actual brightness will be lower with touchscreen or Sure View.

DOCKING (Sold Separately)

Docking station model #1	HP Thunderbolt™ 120W G4 Dock
Docking station model #2	HP USB-C Dock G5
Docking station model #3	HP USB-C G5 Essential Dock
Docking station model #4	HP USB-C/A Universal Dock G2

STORAGE AND DRIVES

Primary Storage
2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell [12]
1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell [12]
1 TB PCIe® NVMe™ SSD Value [12]
512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell [12]
512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell [12]
512 GB PCIe® NVMe™ SSD Value [12]
256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value [12]
256 GB PCIe® NVMe™ SSD Value [12]

12. 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.

MEMORY

Maximum Memory
64GB DDR5-5600 MT/s (2 x 32 GB) RAM [13]

Memory
64GB DDR5-5600 MT/s (2 x 32 GB) RAM [13]
32GB DDR5-5600 MT/s (2 x 16 GB) RAM [13]
32GB DDR5-5600 MT/s (1 x 32 GB) RAM [13]
16GB DDR5-5600 MT/s (2 x 8 GB) RAM [13]
16GB DDR5-5600 MT/s (1 x 16 GB) RAM [13]
8GB DDR5-5600 MT/s (1 x 8 GB) RAM [13]

Memory Slots

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2 SODIMM
System runs at 5600 MT/s

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.

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NETWORKING/COMMUNICATIONS

WLAN
Realtek 8852CE Wi-Fi 6E Bluetooth® 5.3 wireless card WLAN [14]
Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 wireless card AIM-T WLAN [14]

WWAN
HP 5G Sub-6 Cat 19 WWAN eSIM [15,16]
HP 4G LTE-A Pro Cat16 WWAN eSIM [15]

LPWAN
Qualcomm® 9205 LTE-M (CAT-M1 fSVC) (no Internet)[17]

NFC
NFC NXP NPC300 [18]

Miracast
Native Miracast Support [19]

14. 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.

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.

16. 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.

17. Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.

18. Sold separately or as an optional feature.

19. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

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AUDIO/MULTIMEDIA

Audio
Audio by Poly Studio
2 Integrated stereo speakers
Discrete Amplifiers
2 Integrated dual array microphones

Speaker Power
1W/8ohm per speaker

Camera
5MP+Infrared camera [18]
5MP camera [18]

Sensors
Ambient Light Sensor
Adaptive Color Sensor
Hall Effect Sensor
Thermal Sensor
HP Tamper Lock [20]
Fingerprint Sensor

18. Sold separately or as an optional feature.
20. HP Tamper Lock must be enabled by the customer or your administrator.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard
HP Premium Keyboard, spill-resistant, with numeric keypad, Privacy, Backlit, Durakey keyboard. [21]
HP Premium Keyboard, spill-resistant, with numeric keypad, Backlit, Durakey keyboard. [21]
HP Premium Keyboard, spill-resistant, with numeric keypad, Durakey keyboard.

Pointing Device
Clickpad with multi-touch gesture support
Microsoft Precision Touchpad Default Gestures Support

Function Keys
ESC: System Information
F1 - Display Switching
F2 - Blank or Privacy
F3 - Brightness Down
F4 - Brightness Up
F5 - Audio Mute
F6 - Volume Down
F7 - Volume Up
F8 - Mic Mute
F9 - Blank or Backlit Toggle
F10 - Insert

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F11 - Airplane Mode
F12 - HP Command Center
Power Button (with LED)
Delete
Home
End
Microsoft Copilot [22]

Hidden Function Keys
Fn+R - Break, Fn+S - Sys Rq, Fn+C - Scroll Lock

21. Backlit keyboard is an optional feature.
22. Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Copilot in Windows is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAIFeatures

SOFTWARE AND SECURITY

Software
Adobe Offer[23]
Bing Search for IE11
Buy Microsoft Office (Sold separately)
HP Connection Optimizer
HP Easy Clean[24]
HP Easy Clean Keyboard Driver
HP Hotkey Support
HP Mac Address Manager
HP Notifications
HP PC Hardware Diagnostics UEFI
HP PC Hardware Diagnostics Windows
HP Power Manager with Battery Health Manager[25]
HP Privacy Settings
HP Services Scan [26]
HP Smart Support [27]
HP Support Assistant [28]
HSA Fusion for Commercial
HSA Telemetry for Commercial
Miro Offer [29]
myHP[30]
Poly Lens[31]

Manageability Features
HP Client Catalog (download)[32]
HP Client Management Script Library (download)[33]
HP Cloud Recovery [34]
HP Connect for Microsoft Endpoint Manager [35]
HP Driver Packs (download)[36]
HP Image Assistant (download)[37]

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HP Manageability Integration Kit (download) [38]
HP Patch Assistant (download) [39]

Security Features
Secured-Core PC Enable [40]
Windows Hello Enhanced Sign-In Security (ESS)
HP Wolf Security for Business which includes:[41]
HP Sure Admin [42]
HP Sure Click [43]
HP Sure Recover [44]
HP Sure Run [45]
HP Sure Sense
HP Sure Start [46]
HP Tamper Lock

Security TPM
Model: Nuvoton NPCT760HABYX
TCG TPM 2.0
Version: 7.2.3.1
FIPS 140-2 Compliant: Yes

Model: Infineon SLB9672VU2.0 FW15.23
TCG TPM 2.0
Version: 15.23
FIPS 140-2 Compliant: Yes

BIOS
Absolute Persistence Module [47]
BIOS Update via Network
HP BIOSphere Gen6 [48]
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor [49]
HP Secure Erase [50]
HP Wake on WLAN

Smartcard Reader
Model number: Alcorlink AK9563
FIPS 201 Compliant: Yes

IPv6 Support
Yes

FirstNet Certified

Does the BIOS implement the ISO/IEC 19678:2015 (formerly NIST 800-147) guidelines?: Yes
UEFI version: 2.7
Class: 3

23. 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.

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24. HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.

25. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store. Depending on what version of HP Battery Health Manager (BHM) is available for your device, HP BHM may look at a number of factors to determine how to adjust battery charging over time to optimize battery health. HP BHM is preset to "Let HP Manage my Battery Charging" to allow the system to balance charging between battery health and battery duration. As Let HP Manage My Battery Charging adjusts charge capacity, the amount of run-time on battery will be reduced over time. HP may utilize BIOS updates to adjust BHM settings on select systems to optimize battery health and reduce exposure to those factors that can accelerate battery degradation. To update or change HP BHM settings and for complete details, see https://support.hp.com/us-en/document/ish_4449597-3519507-16

26. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at http://www.hpdaas.com/requirements. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit http://www.hpdaas.com/requirements. Not available in China.

27. HP Smart Support requires the HP agent to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support. HP Services Scan is provided thru Windows Update and will check entitlement on each hardware device to determine if an HP agent-enabled service has been purchased, and will download applicable software automatically. The HP agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements.

28. HP Support Assistant is available on Windows. For more information, please visit http://www.support.hp.com/help/hp-support-assistants

29. HP customers qualify for a 90 day trail of Miro, this offer ends September 2025. Complete terms and conditions are provided by Miro when accepting the offer.

30. Requires Windows 10 or higher OS.

31. Poly Lens Desktop requires a Windows OS

32. HP Client Catalog can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html

33. HP Client Management Script Library can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html

34. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. **NOTE:** You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Details, please refer to: https://support.hp.com/us-en/document/c05115630.

35. HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.

36. HP Driver Packs can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions/drivers-pack.html

37. HP Image Assistant can be downloaded from https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html

38. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

39. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

40. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.

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41. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.

42. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store

43. HP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.

44. HP Sure Recover is available on select HP PCs and requires Windows 10 or Windows 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on select PCs.

45. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.

46. HP Sure Start is available on select HP PCs and requires Windows 10 and higher45. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.

47. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/

48. HP BIOSphere features may vary depending on the platform and configuration.

49. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.

50. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

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POWER

Power Supply
HP Slim 100W USB Type-C® adapter[51]
HP Standard 65W USB Type-C® adapter[51]
HP Slim 65W USB Type-C® adapter[51]

Battery
HP Long Life 6 cell 76Whr Polymer [52,53]
HP Long Life 3 cell 56Whr Polymer [52,53]

Battery Recharge Time
Supports battery HP Fast Charge: approximately 50% in 30 minutes [54]

Power Cord
3-wire plug - 1m [51]

Battery Life
Up to 20 hours and 15 minutes with 76 whr battery (HP Long Life 6-Cell, 76 Whr Polymer, UMA graphic, AMD Ryzen 7 U15, Display set to 250 nits display, 2*8 GB DDR5 memory, 256 GB SSD) [55]

51. Availability may vary by country.
52. Battery is internal and not replaceable by customer. Serviceable by warranty.
53. 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.
54. 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.
55. MM25 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.

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WEIGHTS & DIMENSIONS

Product Weight

Starting at 1.86 kg (4.1 lb) with 56.00 Wh battery
Weight will vary by configuration. Does not include power adapter.

Product Dimensions (W x D x H) [56]

358.7 (W) x 251.28 (D) x 9.02 mm (front) / 16.35 mm (rear)
(14.12 in x 9.89 in x 0.35 in (front) / 0.64 in (rear))

Pallet Dimensions (W x D x H) [57]

16" to 17" boxes (345mm height): 1200mm x 1000mm x 1200mm

56. 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.
57. 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.

PORTS/SLOTS

Left Side

2 Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power Delivery DisplayPort™ 1.4 [58]
1 Super Speed USB Type-A 5Gbps signaling rate Power charging
1 HDMI 2.1 [6]
1 Smart Card Reader (Integrated)

Right side

1 Super Speed USB Type-A 5Gbps signaling rate
1 Headphone/mic combo jack
1 Nano SIM card slot (Integrated)
1 Security lock slot (Integrated)

58. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.
7. HDMI cable sold separately.

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ENVIRONMENTAL DATA

Eco-Label Certifications & declarations	This product has received or is in the process of being certified to the following approvals and may be labeled with one or more of these marks: • IT ECO declaration • US ENERGY STAR® • US Federal Energy Management Program (FEMP) • EPEAT® Gold registered in the United States. See http://www.epeat.net for registration status in your country. • TCO Certified • China Energy Conservation Program (CECP) • China State Environmental Protection Administration (SEPA) • Taiwan Green Mark • Korea Eco-label • Japan PC Green label*
Sustainable Impact Specifications	• Product Carbon Footprint • Ocean-bound plastic in Speaker • 60% post-consumer recycled plastic • 65% recycled metal • Low halogen • Outside Box and corrugated cushions are 100% sustainably sourced and recyclable • Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable. • Bulk packaging available
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, 50Hz**
Normal Operation (Sort idle)	5.46 W	5.59 W	5.43 W
Normal Operation (Long idle)	1.29 W	1.32 W	1.19 W
Sleep	1.29 W	1.32 W	1.19 W
Off	0.42 W	0.47 W	0.42 W

NOTE: 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, 50Hz**
Normal Operation (Short idle)	18.67 BTU/hr	19.11 BTU/hr	18.57 BTU/hr
Normal Operation (Long idle)	4.41 BTU/hr	4.51 BTU/hr	4.06 BTU/hr
Sleep	4.41 BTU/hr	4.51 BTU/hr	4.06 BTU/hr
Off	1.43 BTU/hr	1.60 BTU/hr	1.43 BTU/hr

***NOTE:** Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.

Declared Noise Emissions (in accordance with ISO 7779 and ISO 9296)	**Sound Power (L_{WAd}, bels)**	**Sound Pressure (L_{pAm}, decibels)**
Typically Configured – Idle	2.6	14.4
Fixed Disk – Random writes	2.8	25.3
Optical Drive – Sequential reads	3.6	33.1

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Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the Spare parts are available throughout the warranty period and or for up to "5" years after the end of production.		
Additional Information	• 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 (EPEAT) standard at the Gold level, see www.epeat.net • Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. • This product is 93.8% recycle-able when properly disposed of at end of life.		
Packaging Materials	External:	PAPER/Corrugated	358 g
		PAPER/Paper	4 g
		PAPER/Molded Pulp	162 g
	Internal:	PLASTIC/Polyethylene low density - LDPE	13 g
	The plastic packaging material contains at least 0.0% recycled content.		
	The corrugated paper packaging materials contains at least 51.8% recycled content.		
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve. To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.		
Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906) • Asbestos • Certain Azo Colorants • Certain Brominated Flame Retardants – may not be used as flame retardants in plastics • Cadmium • Chlorinated Hydrocarbons • Chlorinated Paraffins • Bis(2-Ethylhexyl) phthalate (DEHP) • Benzyl butyl phthalate (BBP)		

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	- Dibutyl phthalate (DBP) - Diisobutyl phthalate (DIBP) - Formaldehyde - Halogenated Diphenyl Methanes - 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 and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198 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: HP Product Disassembly Instruction Website. 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.

HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment:
	
	Sustainable Impact Report
	    https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040843
	Eco-label certifications
	    https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports-=document_type-type_energy_star,type_epeat,type_tcoISO
	  ISO 14001 certificates:
	    https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777932

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footnotes	- Percentage of ocean-bound plastic contained in each component varies by product - Recycled plastic content percentage is based on the definition set in the IEEE 1680.1-2018 standard. - External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers. - Fiber cushions made from 100% recycled wood fiber and organic materials. - Disclaimer: recycled metal is expressed as a percentage of the total weight of the metal according to ISO 14021 definitions for metal parts over 25 grams.

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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. [59]

59. 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.

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SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

Nominal Operating Voltage	20.0V
Max Operating Power	UMA 110W

Temperature

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

Relative Humidity

Operating	10% to 90 % (non-condensing)
Non-operating	0% to 95 %, 38.7° C (101.6° F) maximum wet bulb temperature

Shock

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

Random Vibration

Operating	1.043 grams
Non-operating	3.500 grams

Altitude (unpressurized)

Operating	3048 m (10000 ft)
Non-operating	12192 m (40000 ft)

Planned Industry Standard Certifications

Regulatory Model Number	HSN-I49C-3
CSA/UL 62368-1	Yes
ENERGY STAR®	Yes [60]
EPEAT®	EPEAT® Gold in the United States [61]
FCC/ICES/CISPR/VCCI	Yes
CE MARKING	Yes
GS Mark	Yes
	Related commodity should comply with ISO 9241 Standards.
China CCC/SRRC	Yes
Taiwan BSMI/NCC	Yes
Korea KCC/KC/KES	Yes
Ukraine NSoC/TEC	Yes
EAEU Compliance	Yes
Saudi Arabian Compliance	Yes
TCO	Yes
WW RoHS	Yes
Low Blue Light	Yes
MIL-STD 810H Testing	Yes [62]

60. Configurations of the HP EliteBook 865 G11 that are ENERGY STAR® qualified are identified as HP EliteBook 865 G11 ENERGY STAR on HP websites and on http://www.energystar.gov.
61. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

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62. MIL STD 810H testing 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. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View.

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

16.0 in 2.8K (2880 x 1800) BrightView UWVA OLED+LBL DCI-P3 NBZ2 400 eDP 1.4+PSR 100 48H-120Hz (VRR) bent OLED Panel		
	Outline Dimensions (W x H)	348.078 x 224.19 (max)
	Active Area	344.448 x 215.280 (typ)
	Weight	220 (max)
	Diagonal Size	16
	Surface Treatment	Bright View
	Touch Enabled	No
	Contrast Ratio	100,000:1 (typ)
	Refresh Rate	120 Hz
	Brightness	400 nits[1]
	Pixel Resolution - Format	2880 x 1800 (WQUXGA)
	Backlight	OLED
	Pixel Resolution	RGB
	Color Gamut Coverage	DCI-P3 100%
	Color Depth	8 bits + 2FRC
	Viewing Angle	UWVA 89/89/89/89
	Low Blue Light	Yes
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	N/A (max)/ 7.5 (max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus bent LCD Panel		
	Outline Dimensions (W x H)	349.980 x 225.420 (max)
	Active Area	344.680 x 215.420 (typ)
	Weight	310 (max)
	Diagonal Size	16
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1500:1 (typ)
	Refresh Rate	60 Hz
	Brightness	1000 nits[1]
	Pixel Resolution - Format	1920 x1200 (WUXGA)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	sRGB 100%

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	Color Depth	8
	Viewing Angle	UWVA 85/85/85/85
	Low Blue Light	Yes
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	N/A

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA Low Blue Light sRGB 100 800 eDP 1.4+PSR+IOL Sure View 5 bent LCD Panel	**Outline Dimensions (W x H)**	349.980 x 224.82 (max)
	Active Area	344.680 x 215.420 (typ)
	Weight	310 (max)
	Diagonal Size	16
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1500:1 (typ)
	Refresh Rate	60 Hz
	Brightness	800 nits[1]
	Pixel Resolution - Format	1920 x1200 (WUXGA)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	sRGB 100%
	Color Depth	8
	Viewing Angle	UWVA 89/89/89/89
	Low Blue Light	Yes
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	1.93(max)/2.38(max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2Y 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel	**Outline Dimensions (W x H)**	350.680 x 226.470 (max)
	Active Area	344.678 x 215.424 (typ)
	Weight	330 (max)
	Diagonal Size	16
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1000:1 (typ)
	Refresh Rate	60 Hz
	Brightness	400 nits [1]
	Pixel Resolution - Format	1920 x 1200 (WUXGA)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	sRGB 100%
	Color Depth	8

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	Viewing Angle	UWVA 89/89/89/89
	Low Blue Light	Yes
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	1.60 (max)/ 1.95 (max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED NTSC 45 NB2X 300 eDP 1.2 w/o PSR bent LCD Panel	**Outline Dimensions (W x H)**	350.680 x 226.470 (max)
	Active Area	344.6784x215.424 (typ)
	Weight	390 (max)
	Diagonal Size	16
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1000:1(typ)
	Refresh Rate	60 Hz
	Brightness	300 nits [1]
	Pixel Resolution - Format	1920 x 1280 (WUXGA)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 bits + 2FRC
	Viewing Angle	UWVA 89/89/89/89
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	2.7 (max)/3.4 (max)

16.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED NTSC 45 NB2X 300 TOP eDP 1.2 w/o PSR bent LCD Panel	**Outline Dimensions (W x H)**	350.680 x 226.470 (max)
	Active Area	344.6784x215.424 (typ)
	Weight	390 (max)
	Diagonal Size	16
	Surface Treatment	Anti-Glare
	Touch Enabled	Yes
	Contrast Ratio	1000:1(typ)
	Refresh Rate	60 Hz
	Brightness	300 nits [1]
	Pixel Resolution - Format	1920 x 1280 (WUXGA)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	NTSC 45%
	Color Depth	6 bits + 2FRC
	Viewing Angle	UWVA 89/89/89/89

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Low Blue Light	No
Power Consumption (W, EBL@ 150nits max/ 200nits max))	2.7 (max)/3.24 (max)

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STORAGE AND DRIVES

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.

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell		
	Form Factor	M.2 2280
	Capacity	512GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s ±20%
	Maximum Sequential Write	3500 MB/s ±20%
	Logical Blocks	1,000,215,215
	Features	Pyrite 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell		
	Form Factor	M.2 2280
	Capacity	1TB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s ±20%
	Maximum Sequential Write	5000 MB/s ±20%
	Logical Blocks	2,000,409,264
	Features	Pyrite 2.0; TRIM; L1.2

SSD 2TB 2280 PCIe-4x4 NVMe Three Layer Cell		
	Form Factor	M.2 2280
	Capacity	2TB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s ±20%
	Maximum Sequential Write	5000 MB/s ±20%
	Logical Blocks	4,000,797,360
	Features	Pyrite 2.0; TRIM; L1.2

256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value Solid State Drive		
	Form Factor	M.2 2280
	Capacity	256GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	900 MB/s ±20%
	Logical Blocks	500,118,192
	Features	TCG Opal 2.0; TRIM; L1.2

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512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive		
	Form Factor	M.2 2280
	Capacity	512GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	6400 MB/s ±20%
	Maximum Sequential Write	3500 MB/s ±20%
	Logical Blocks	1,000,215,215
	Features	TCG Opal 2.0; TRIM; L1.2

SSD 256GB 2280 PCIe NVMe Value		
	Form Factor	M.2 2280
	Capacity	256 GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	2000 MB/s ±20%
	Maximum Sequential Write	900 MB/s ±20%
	Logical Blocks	500,118,192
	Features	Pyrite 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe Value		
	Form Factor	M.2 2280
	Capacity	512 GB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	2200 MB/s ±20%
	Maximum Sequential Write	1000 MB/s ±20%
	Logical Blocks	1,000,215,215
	Features	Pyrite 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe NVMe Value		
	Form Factor	M.2 2280
	Capacity	1TB
	NAND Type	TLC
	Interface	PCIe NVMe Gen4X4
	Maximum Sequential Read	2200 MB/s ±20%
	Maximum Sequential Write	1600 MB/s ±20%
	Logical Blocks	2,000,409,264
	Features	Pyrite 2.0; TRIM; L1.2

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NETWORKING/COMMUNICATIONS

Realtek 8852CE Wi-Fi 6E Bluetooth® 5.3 wireless card WLAN [1]	**Wireless LAN Standards**	IEEE 802.11a IEEE 802.11ac IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11g IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11n
	Interoperability	Wi-Fi certified

	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 ~ MCS11, (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 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK
	Security[2]	• 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 Power[3]	• 802.11b : +17dBm minimum • 802.11g : +16dBm minimum • 802.11a : +17dBm minimum

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	• 802.11n HT20(2.4GHz) : +14dBm minimum
	• 802.11n HT40(2.4GHz) : +13dBm minimum
	• 802.11n HT20(5GHz) : +14dBm minimum
	• 802.11n HT40(5GHz) : +13dBm minimum
	• 802.11ac VHT80(5GHz) : +10dBm minimum
	• 802.11ac VHT160(5GHz) : +10dBm minimum
	• 802.11ax HE40(2.4GHz) : +12dBm minimum
	• 802.11ax HE80(5GHz) : +10dBm minimum
	• 802.11ax HE160(5GHz) : +10dBm minimum
	• 802.11ax HE80(6GHz) : +10dBm minimum
	• 802.11ax HE160(6GHz) : +10dBm minimum
Power Consumption	• Transmit mode : 2.5 W
	• Receive mode : 2.0 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 Sensitivity[4]	• 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(VHT80) : -84dBm maximum
	• 802.11ac, MCS9(VHT80) : -59dBm maximum
	• 802.11ac, MCS9(VHT160) : -58.5dBm maximum
	• 802.11ax, MCS11(HE40): -57dBm maximum
	• 802.11ax, MCS11(HE80): -54dBm maximum
	• 802.11ax, MCS11(HE160): -53.5dBm maximum
Antenna type	High efficiency antenna with spatial diversity
	Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)
Weight	1. Type 2230: 2.8 g
	2. Type 1216: g
Operating Voltage	3.3 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)
Signaling Data Rate	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

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	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
Bluetooth® Software Supported **Link Topology**	Microsoft Windows Bluetooth® Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
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	2Mbps LE Advanced Audio Distribution Profile (A2DP) Basic Imaging Profile (BIP) Bluetooth® 4.1-ESR 5/6/7 Compliance Bluetooth® 4.2 ESR08 Compliance Bluetooth® 5.2 Bluetooth® 5.3 wireless card Channel Selection Algo Encryption key size control enhancements ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions LE Data Packet Length Extension LE Dual Mode LE L2CAP Connection Oriented Channels LE Link Layer LE Link Layer Ping LE Long Range LE Low Duty Cycle Directed Advertising LE Privacy 1.2 –Extended Scanner Filter Policies LE Privacy 1.2 –Link Layer Privacy LE Secure Connection- Basic/Full Limited High Duty Cycle Non-Connectable Advertising Periodic Advertisement interval Train Nudging & Interlaced Scan Windows Bluetooth® profiles support

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).

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Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 wireless card AIM-T WLAN [1]	Wireless LAN Standards	IEEE 802.11a IEEE 802.11ac IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11g IEEE 802.11h IEEE 802.11i IEEE 802.11j IEEE 802.11k IEEE 802.11mc IEEE 802.11n IEEE 802.11r IEEE 802.11v IEEE 802.11w
	Interoperability	Wi-Fi certified

	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
		  5.925 – 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 ~ MCS11, (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 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK
	Security[2]	• 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 Power[3]	2.4GHz (MIMO, typical): • 802.11b : +18dBm • 802.11g : +16.5dBm

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	• 802.11n/ac/ax (HT20/VHT20/HE20) : +16dBm
	• 802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm
	5GHz (MIMO, typical):
	• 802.11a : +13dBm
	• 802.11n/ac/ax (HT20/VHT20/HE20) : +13.5dBm
	• 802.11n/ac/ax (HT40/VHT40/HE40) : +12.5dBm
	• 802.11ac/ax (VHT80/HE80) : +11.5dBm
	• 802.11ax HE160 : +11.5dBm
	6GHz LPI mode (MIMO, typical):
	• 802.11a : 0dBm
	• 802.11ax HE20 : +1dBm
	• 802.11ax HE40 : +4dBm
	• 802.11ax HE80 : +7dBm
	• 802.11ax HE160 : +7.5dBm
Power Consumption	Transmit mode : 2.5 W
	Receive mode : 2.0 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 Sensitivity[4]	2.4GHz (SISO):
	•802.11b, 11Mbps : -82dBm maximum
	• 802.11g, 54Mbps : -71dBm maximum
	• 802.11n, MCS7 : -64dBm maximum
	• 802.11ac, MCS9 : -52dBm maximum
	•802.11ax, MCS11(HT40): -49dBm maximum
	5GHz (SISO):
	• 802.11a, 54Mbps : -71dBm maximum
	• 802.11n, MCS07 : -64dBm maximum
	• 802.11ac, MCS9 : -52dBm maximum
	•802.11ax, MCS11(HE80/HE160): -46dBm maximum
	6GHz (SISO):
	• 802.11a, 54Mbps : -71dBm maximum
	• 802.11n, MCS7 : -64dBm maximum
	• 802.11ac, MCS9 : -52dBm maximum
	•802.11ax, MCS11(HE160): -46dBm maximum
Antenna type	High efficiency antenna with spatial diversity, mounted in the display enclosure
	Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications
Form Factor	PCI-Express M.2 MiniCard
Dimensions	30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)
Weight	Type 2230: 2.8g
Operating Voltage	3.3v +/- 9%

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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)
Signaling Data Rate	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
Bluetooth® Software Supported **Link Topology**	Microsoft Windows Bluetooth® Software
Power Management	Microsoft Windows ACPI, and USB Bus Support
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	2Mbps LE Advanced Audio Distribution Profile (A2DP) Basic Imaging Profile (BIP) Bluetooth® 4.1-ESR 5/6/7 Compliance Bluetooth® 4.2 ESR08 Compliance Bluetooth® 5.2 Bluetooth® 5.3 wireless card Channel Selection Algo Encryption key size control enhancements ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions LE Data Packet Length Extension LE Dual Mode LE L2CAP Connection Oriented Channels LE Link Layer LE Link Layer Ping LE Long Range LE Low Duty Cycle Directed Advertising LE Privacy 1.2 –Extended Scanner Filter Policies LE Privacy 1.2 –Link Layer Privacy LE Secure Connection- Basic/Full Limited High Duty Cycle Non-Connectable Advertising Periodic Advertisement interval Train Nudging & Interlaced Scan Windows Bluetooth® profiles support

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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).

HP 5G Sub-6 Cat 19 WWAN eSIM	Technology/Operating bands	WCDMA/HSPA+ operating bands:
		Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
		Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
		Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)
		Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
		Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
		LTE FDD/TDD operating bands:
		Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
		Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)
		Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)
		Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)
		Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)
		Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)
		Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)
		Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
		Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
		Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
		Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)
		Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
		Band 29: 717 to 728 MHz (DL)
		Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
		Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
		Band 32: 1452 to 1496 MHz (DL)
		Band 34: 2010 to 2025 MHz (UL/DL)
		Band 38: 2570 to 2620 MHz (UL/DL)
		Band 39: 1880 to 1920 MHz (UL/DL)
		Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)
		Band 40: 2300 to 2400 MHz (UL/DL)
		Band 41: 2496 to 2690 MHz (UL/DL)
		Band 42: 3400 to 3600 MHz (UL/DL)
		Band 43: 3400 to 3800 MHz (UL/DL)
		Band 46: 5150 to 5925 MHz (DL)
		Band 48: 3550 to 3700 MHz (UL/DL)
		Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
		Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
		Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
		Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
		Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
		5GNR Sub 6GHZ:
		n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
		n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
		n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
		n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
		n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

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	n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
	n38: 2570 to 2620 MHz (UL/DL)
	n40: 2300 to 2400 MHz (UL/DL)
	n41: 2496 to 2690 MHz (UL/DL)
	n48: 3550 to 3700 MHz (UL/DL)
	n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
	n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
	n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
	n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
	n77: 3300 to 4200 MHz (UL/DL)
	n78: 3300 to 3800 MHz (UL/DL)
	n79: 4400 to 5000 MHz (UL/DL)
	n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
Wireless protocol standards	NR Sub6G rel15 200MHz 2 DLCA, 256 QAM 200MHz 2 ULCA, 256 QAM 15KHz/30KHz SCS for FDD/TDD LTE Rel15 100MHz 5 DLCA, 256 QAM 40MHz 2 ULCA, 256 QAM UMTS Rel8
GPS	GPS only support L1 C/A
GPS bands	GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)
Maximum data rates	Sub-6 SA Peak DL 4.67Gbps/UL 1.25Gbps Sub-6 NSA Peak DL 3.74Gbps/UL 835Mbps LTE Peak DL 1.6Gbps (CAT19)/UL 211Mbps (CAT18) UMTS/HSPA+ DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)
Maximum output power	NR : 23 dBm in all band except (n30 = 22dBm & n48=21dBm & n77=25dBm & n41/n77/n78 = 26dBm) LTE : 23 dBm in all band except (B30 = 22dBm & B48=21dBm & B41=26dBm) UMTS : 23.5 dBm
Maximum power consumption	3500 mA (peak); 1674mA (average)
Form Factor	M.2, 3052-S3 Key B
Weight	8.7 g (0.307 oz)
Dimensions (Length x Width x Thickness)	52.00 x 30.00 x 2.30 mm (2.05 x 1.18 x 0.09 inch)
embedded eSIM	Support

1. 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

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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.

HP 4G LTE-A Pro Cat16 WWAN eSIM	**Technology/Operating bands**	WCDMA/HSPA+ operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) LTE FDD/TDD operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL) Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL) Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL) Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL) Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL) Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL) Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL) Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) Band 29: 717 to 728 MHz (DL) Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL) Band 32: 1452 to 1496 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL) Band 38: 2570 to 2620 MHz (UL/DL) Band 39: 1880 to 1920 MHz (UL/DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 40: 2300 to 2400 MHz (UL/DL) Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHz (UL/DL) Band 43: 3400 to 3800 MHz (UL/DL) Band 48: 3550 to 3700 MHz (UL/DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
	Wireless protocol standards	3GPP LTE Rel15 LTE Specification, 100MHz 5 DLCA, 256 QAM, DL 1.0Gbps (CAT16)/ 40MHz 2 ULCA, 256 QAM, UL 211Mbps (CAT18) WCDMA 3GPP Release 8 UMTS Specification, DL UMTS: 384 kbps/UL 384 kbp, DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7) WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	GPS	Standalone, A-GPS (MS-A, MS-B)
	GPS bands	GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

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Maximum data rates	LTE: ue-CategoryDL 16, (DL : 1 Gbps) ue-CategoryUL 18 , (UL: 211Mbps) DC-HSPA+: 42 Mbps (Download), 11.5 Mbps (Upload)
Maximum output power	HPUE: Not supported LTE: 23 dBm in all band except (B30= 22dBm& B48= 21dBm) UMTS: 23.5 dBm
Maximum power consumption	LTE: 1300 mA (peak); 1100 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
Form Factor	M.2, 3052-S3 Key B
Weight	8.0 g (0.282 oz)
Dimensions (Length x Width x Thickness)	52.00 x 30.00 x 2.30 mm (2.05 x 1.18 x 0.09 inch)
embedded eSIM	Support

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.

NFC NXP NPC300	**Dimensions (L x W x H)**	17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)
	Chipset	NPC300
	System interface	I2C
	NFC RF standards	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092 ECMA-340 NFCIP-1 Target and Initiator ECMA-320 NFCIP-2
	NFC Forum Support	Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2
	Reader (PCD-VCD) Mode	ISO/IEC 14443 A ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K MIFARE DESFire FeliCa Jewel and Topaz
	Card Emulation (PICC-VICC) Mode	ISO/IEC 14443 A ISO/IEC 14443 B and B' MIFARE FeliCa
	Frequency	13.56 MHz
	NFC Modes Supported	Reader/Writer, Peer-to-Peer
	Raw RF Data Rates	106, 212, 424, 848 kbps
	Operating temperature	Operating: 0 °C to 70 °C (32 °F to 158 °F) Storage: -20 °C to 125 °C (-4 °F to 257 °F)
	Humidity	Operating: 10% - 90% (non-condensing) Non-Operating: 5% - 95% (non-condensing)
	Supply Operating voltage	4.35 to 5.25 Volts

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I/O Voltage	1.8V or 3.3V
Power Consumption **(Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)**	
Mode	Power Consumption, Typical
Polling	7.3 mA
Detected Test Tag Type 1	Total 283.8 mA Net Module 236.8 mA
Detected Test Tag Type 2	Total 288.8 mA Net Module 241.8 mA
Detected Test Tag Type 3	Total 287.7 mA Net Module 240.7 mA
Detected Test Tag Type 4	Total 282.3 mA Net Module 235.3 mA
Antenna	Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna matching is external to module.

Qualcomm® 9205	**Technology/Operating bands**	FDD LTE: 1700/2100 (Band 4), 1700/2100 (Band 66), 1800 (Band 3), 1900 (Band 2), 1900 (Band 25), 2100 (Band 1), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 28), 700 (band 85), 800 (Band 20), 800 (Band 27), 850 (Band 18 lower), 850 (Band 19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8) MHz
	Wireless protocol standards	GSM/GPRS/EGPRS: 1800, 1900, 850, 900 MHz 3GPP TS 21.111 V10.0.0: USIM and IC card requirements 3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS) 3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE) 3GPP TS 31.102 V10.11.0: Characteristics of the Universal Subscriber Identity Module (USIM) application 3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module (USIM) Application Toolkit (USAT) 3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing 3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance specification; Part 1: Conformance specification 3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity Module -Mobile Equipment (SIM-ME) interface
	GPS	Standalone GPS/Beidou/Glonass, 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 FDD: 375.00 Kbps (Download), 1119.00 Kbps (Upload) GPRS: 107.00 Kbps (Download), 85.60 Kbps (Upload) EGPRS: 296.00 Kbps (Download), 236.80 Kbps (Upload)
	Maximum output power	LTE (all bands except B41): 21.5 dBm GSM: 34.0 dBm

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Maximum power consumption	LTE: 147 mA(peak), 18 mA(average)
Form Factor	M.2
Weight	4 g
Dimensions (Length x Width x Thickness)	22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)
embedded eSIM	Support

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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

AC Adapter 65 Watt nPFC Standard USB type C Straight 1.8m	Dimensions		3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm)
	Weight		240g ± 10g
	Inpuvt		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	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 current limit	< 8.0A
		AC Inlet Type	C6
		DC Cable Connector	USB type C
		DC Cable Material	PVC
	Connector		C6
	Environmental Design	Operating temperature	32˚ F to 95˚ F (0˚ to 35˚ C)
		Non-operating (storage) temperature	-4˚ F to 185˚ F (-20˚ to 85˚ C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% 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

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HP 65W Slim USB-C Straight AC Power Adapter	Dimensions		3.819 x 2.106 x 0.827 in (9.7 x 5.35 x 2.1cm)
	Weight		220g ± 10g
	Input		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	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 current limit	< 8.0A
		AC Inlet Type	C6
		DC Cable Connector	USB type C
		DC Cable Material	PVC
	Connector		C6
	Environmental Design	Operating temperature	32˚ F to 95˚ F (0˚ to 35˚ C)
		Non-operating (storage) temperature	-4˚ F to 185˚ F (-20˚ to 85˚ C)
		Altitude	0 to 16,400 ft (0 to 5000m)
		Humidity	20% to 95%
		Storage Humidity	10% 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 100W Slim USB-C Straight AC Power Adapter	Dimensions		5.354 x 2.362 x 0.866 in (13.6x6.0x2.2cm)
	Weight		380g ± 10g
	Input		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

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	Input frequency range	47-63Hz
	Input AC current	Max. 1.6 A at 90 Vac
Output	**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 /80% load 10ms at 115 Vac input
	Output current limit	5V/9V/12V/15V<125% max current, 20V<135% max current
	AC Inlet Type	C6
	DC Cable Connector	USB type C
	DC Cable Material	PVC
Connector	C6	
Environmental Design	**Operating temperature**	32˚ F to 95˚ F (0˚ to 35˚ C)
	Non-operating (storage) temperature	-4˚ F to 185˚ F (-20˚ to 85˚ C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
EMI and Safety Certifications	CE Mark - full compliance with LVD and EMC directives Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and IEC62368-1 : 2018, EN62368-1:2020+A11, UL 62368-1 Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC, Ukraine(CoC+DoC+RoHS+ECO)	

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HP 3-cell Long Life Li-Ion (56Wh)[1]	Weight	0.205kg +/- 10g (0.474 lb)	
	Cells/Type	3cell Lithium-Ion Polymer cell / 586075	
	Energy	Voltage	11.58V
		Amp-hour capacity	4.84Ah
		Watt-hour capacity[1]	56.04Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Optional Travel Battery Available	No

HP 6-cell Long Life Li-Ion (76Wh)[1]	Weight	0.357kg +/- 10g(0.787 lb)	
	Cells/Type	6cell Lithium-Ion Polymer cell / 564975	
	Energy	Voltage	11.58V
		Amp-hour capacity	6.565Ah
		Watt-hour capacity[1]	76Wh
	Temperature	Operating (Charging)	32° to 113° F (0° to 45° C)
		Operating (Discharging)	14° to 140° F (-10° to 60° C)
		Optional Travel Battery Available	No

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Technical Specifications

AUDIO

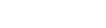|	
HD Stereo Codec	Realtek ALC3315
Audio I/O Ports	3.5mm Headset: CTIA only; Headphone-out
Internal Speaker Amplifier	Cirrus Logic High-Efficiency Boosted Class D Amplifier
Multi-streaming Capable	Playback multi-streaming can be enabled in the audio control panel to allow independent audio streams to be sent to/from the front jacks or integrated speaker., Following MSFT Behavior
Sampling	DAC: Supports resolutions from -bit to -bit;48.0 kHZ to 48.0 kHz ADC: Supports resolutions from -bit to -bit;48.0 kHZ to 48.0 kHz
Internal Speaker	Yes

FINGERPRINT READER

Sensor vendor	SYNAPTICS
Sensor type	Capacitive
DPI resolution	363 DPI
Scan area	104 x 86 pixels
False Rejection Rate	< 3%
False Acceptance Rate	< 0.001%
Mobile Voltage Operation	2.7 V ~ 3.6 V
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Current Consumption Image	100 mA max
Low Latency Wait For Finger	260 uA
Capture Rate	50 frames/sec
ESD Resistance	IEC 61000-4-2 4B (+15KV)
Detection Matrix	363 dpi / 7.4 x 6.0 mm sensor area

Sensor vendor	ELAN
Sensor type	Capacitive
DPI resolution	508 DPI
Scan area	80 x 80 pixels
False Rejection Rate	< 3%
False Acceptance Rate	< 3.000%
Mobile Voltage Operation	2.7 V ~ 3.6 V
Operating Temperature	-20°C ~ 80°C (-4°F ~ 176°F)
Current Consumption Image	35 mA max
Low Latency Wait For Finger	300 uA
Capture Rate	50 frames/sec
ESD Resistance	IEC 61000-4-2 4B (+15KV)
Detection Matrix	508 dpi / 4.0 x 4.0 mm sensor area

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

DOCKING (Sold Separately)

Docking station model #1	HP Thunderbolt™ 120W G4 Dock
Total number of supported displays (incl. the notebook display)	4
Max. resolutions supported	Quad 4K @60Hz
	Dual 8K single cable@30 for Thunderbolt hosts or USB-C hosts DisplayPort 1.4 with Display Stream Compression in High-Resolution Mode
Dock Connectors	2 x HDMI 2.0, 1 x USB-C Alt Mode, 1 x Thunderbolt 4, 2 x DisplayPort 1.4
Technical limitations	**Maximum resolution and display support is dependent on the maximum capability of the notebook.**
	Thunderbolt Hosts: Maximum of (4) displays with maximum resolution of 5K@ 30Hz running Thunderbolt host. Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz. Non-Thunderbolt hosts: The highest resolution for dual displays running a non-Thunderbolt host in multi-function mode is (1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port. Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz + (1) 4K UHD @ 30Hz.
Docking station model #2	HP USB-C Dock G5
Total number of supported displays (incl. the notebook display)	3
Max. resolutions supported	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
Dock Connectors	1x HDMI 2.0, 2x DisplayPort 1.4
Technical limitations	**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.
Docking station model #3	HP USB-C G5 Essential Dock
Total number of supported displays (incl. the notebook display)	3
Max. resolutions supported	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

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

Dock Connectors	1x HDMI 2.0, 2x DisplayPort 1.4
Technical limitations	**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.
Docking station model #4	HP USB-C/A Universal Dock G2
Total number of supported displays (incl. the notebook display)	3
Max. resolutions supported	Multi-Function Mode: (3) 4K DCI @ 30Hz on any port
	High-Resolution Mode: (3) 4K DCI @ 30Hz on any port
Dock Connectors	1x HDMI 2.0, 2x DisplayPort 1.2
Technical limitations	**Maximum resolution and display support is dependent on the maximum capability of the notebook.**
	The best resolution for dual or triple displays is 4K UHD@ 60Hz.
	For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host.

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

Type	Description	Part Number
Adapter	HP HDMI to VGA Adapter	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio	HP Bluetooth™ 365 Speaker	567D3AA
	HP USB G2 Stereo Headset	428K6AA
	HP 3.5mm G2 Stereo Headset	428K7AA
Cases	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
Commodity	HP USB DVD-Writer External ODD	F2B56AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Docking	HP Thunderbolt™ 120W G4 Dock	4J0A2AA
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4J0G4AA
	HP USB-C™ 120W G5 Dock	5TW10AA
	HP USB-C™ G2 Travel Dock	7PJ38AA
	HP USB-C™ G5 Essential Dock	72C71AA
	HP USB-C™/A 120W G2 Universal Dock	5TW13AA
Hub	HP 4K USB-C Multiport Hub	6G843AA
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA

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QuickSpecs

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

Keyboard/Combo	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
	HP 320K USB Wired Keyboard	9SR37AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 685 Comfort Dual-Mode Keyboard	8T6L9AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+ Bluetooth® Wireless Keyboard	3Z726AA
Mouse	HP 235 Slim Wireless Mouse	4E407AA
	HP 320M Wired Mouse	9VA80AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA
	HP 685 Comfort Dual-Mode Mouse	8T6M0AA
	HP 715 Rechargeable Multi-Device Bluetooth® Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP Multi-Device Black 635 Wireless Mouse	1D0K2AA
	HP Premium Wireless Mouse	1JR31AA
	HP Travel Bluetooth® Mouse	6SP30AA
Power	HP 110W USB-C Laptop Charger	8B3Y2AA
	HP 65W LC USB-C AC power adapter	1P3K6AA
	HP 65W USB-C Laptop Charger	600Q7AA
Video	HP USB-A 325 Webcam	53X27AA
	HP Streaming 965 Webcam	695J5AA
	HP 625 Webcam	6Y7L1AA

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Change Log

Date of change:	Version History:		Description of change:
May 20, 2024	V1 to V2	Updated	Environmental Section
June 7, 2024	V2 to V3	Added	NPU in Processor Section
June 10, 2024	V3 to V4	Added	System unit Section
June 11, 2024	V4 to V5	Added	Display Section
June 20, 2024	V5 to V6	Removed	Ports/ Slots Section
July 4, 2024	V7 to V8	Added	Display Section
July 9, 2024	V8 to V9	Added	Display Section
July 15, 2024	V9 to V10	Updated	Weight and Dimensions Section

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