Overview

HP EliteBook 1040 14 inch G11 Notebook PC

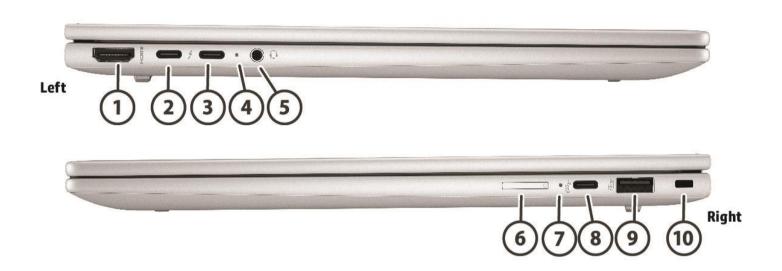


Front

- 1. Webcam LED
- 2. Webcam
- 3. Camera Shutter

4. Touchpad

Overview



Sides

- **1.** HDMI 2.1
- 2. Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power 7. Delivery DisplayPort™ 2.1
- Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power 8. Delivery DisplayPort™ 2.1
- 4. Power Indicator LED
- 5. Headphone/mic combo jack

- 6. Nano SIM card slot (Optional)
- Power Indicator LED
- 8. Super Speed+ USB Type-C® 10Gbps signaling rate USB Power Delivery DisplayPort™ 1.4a
- 9. Super Speed USB Type-A 5Gbps signaling rate Power charging
- **10.** Security lock slot (Integrated)
- 1. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.

PRODUCT NAME

HP EliteBook 1040 14 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	Number of	Number of	Number Of LP	Threads	L3 Cache	Max Turbo	Frequency ⁴	Intel SIPP/ vPro®
		P-cores	E-cores	E-core			P-cores	E-cores	Enterprise
Intel® Core™ Ultra 5 processor 135U	12 cores	2	8	2	12	12 MB	4.40 Ghz	3.60 GHz	х
Intel® Core™ Ultra 7 processor 165H	16 cores	6	8	2	22	24 MB	5.00 GHz	3.80 GHz	Х
Intel® Core™ Ultra 7 processor 155H	16 cores	6	8	2	22	24 MB	4.80 Ghz	3.80 GHz	
Intel® Core™ Ultra 5 processor 125H	14 cores	4	8	2	18	18 MB	4.50 GHz	3.60 GHz	
Intel® Core™ Ultra 5 processor 135H	14 cores	4	8	2	18	18 MB	4.60 GHz	3.60 GHz	х

Processor Family

Intel® Core™ Ultra 5 processor Intel® Core™ Ultra 7 processor

- 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. Intel's numbering, branding and/or naming is not a measurement of higher performance.
- 3. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



- 4. Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.
- 5. Intel vPro® requires Windows 10 Pro 64 bit or higher, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or Wi-Fi 6E WLAN and TPM 2.0. Some functionality requires additional 3rd party software in order to run. Features of vPro® Essentials and Enterprise vary. See http://intel.com/vpro
- 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

Intel® ARC™ Graphics⁷
Intel® Graphics

Supports

UMA: Support DX12, HDMI 2.1 (4K/60Hz only), HDCP 2.3 8

- 7. Intel® Arc™ graphics only available on select Intel® Core™ Ultra H-series processor-powered systems with at least 16GB of system memory
- 8. HDMI cable sold separately

DISPLAY

Non-Touch

35.6 cm (14") diagonal, WUXGA (1920 x 1200), UWVA, Anti-Glare, WLED + Low Blue Light, 800 nits, sRGB 100%, Sure View 5 LCD Panel 9,10,11,12,13

35.6 cm (14") diagonal, WUXGA (1920 x 1200), Bent LCD, UWVA, Anti-Glare, WLED + Low Blue Light, 400 nits, low power, sRGB 100% 9,10,

35.6 cm (14") diagonal, 2.8K (2880 x 1800), Bent OLED, 120Hz (VRR), UWVA, BrightView, OLED+ Low Blue Light, 400 nits, DCI-P3 100% 9,10

Touch

35.6 cm (14") diagonal, WUXGA (1920 x 1200), Bent LCD, Touch, UWVA, Anti-Glare, WLED, 400 nits, sRGB 100% ^{9,10} 35.6 cm (14") diagonal, WUXGA (1920 x 1200), Touch, UWVA, Anti-Glare, WLED + Low Blue Light, 800 nits, sRGB 100%, Sure View 5 LCD Panel ^{11,12,13}

Display Size (Diagonal)

35.6 cm

14"

- 9. HD content required to view HD images.
- 10. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 11. HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 12. Actual brightness will be lower with touchscreen or HP Sure View.



13. Sure view 5 with touch availability starting from Summer/Fall, 2024.

DOCKING (Sold Separately)

Docking station model #1 HP Thunderbolt™ 120W G4 Dock

Docking station model #2 HP USB-C Dock G5

Docking station model #3HP USB-C G5 Essential Dock

Docking station model #4

HP USB-C/A Universal Dock G2

For additional aftermarket options and docking specs please see page 42.

STORAGE AND DRIVES

Primary Storage

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell 14

1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell 14

1 TB PCIe® NVMe™ Value 14

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell 14

512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell 14

512 GB PCIe® NVMe™ Value 14

256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value 14

256 GB PCIe® NVMe™ Value 14

14. 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.

MEMORY

Maximum Memory

32GB LPDDR5X-7467 MT/s RAM

Memory

32GB LPDDR5X-7467 MT/s RAM 16GB LPDDR5X-7467 MT/s RAM

Memory Slots

Memory soldered down.
System runs at 7467 MT/s
Supports Dual Channel Memory 15
Slot(s) are non-accessible / non-upgradeable.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® BE200 Wi-Fi 7 Bluetooth® 5.4 wireless card vPro WW WLAN ^{15,16} Intel® BE200 Wi-Fi 7 Bluetooth® 5.4 wireless card non-vPro WW WLAN ^{15,16} Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 wireless card vPro WLAN ¹⁷ Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 wireless card WLAN ¹⁷

WWAN

HP 5000 5G Solution ^{18,19} HP 4000 4G LTE-Advanced Pro ¹⁸

LPWAN

Qualcomm 9205 LTE-M (CAT-M1 fSVC) (No Internet) 20

NFC

NFC Mirage WNC XRAV-1 (optional)

Miracast

Native Miracast Support 21

15. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, 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.

16. Wi-Fi 7 availability starting from Summer/Fall, 2024

17. 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.

18. 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.

19 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.

20. 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.

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



AUDIO/MULTIMEDIA

Audio

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

Speaker Power

1W/8ohm Per speaker

Camera

5MP+Infrared camera

Sensors

Ambient Light Sensor Adaptive Color Sensor Fingerprint Sensor Hall Effect Sensor HP Tamper Lock ²² HP Sure Platform Motion AI LSM6DSOX Thermal Sensor Time of Flight Sensor

22. HP Tamper Lock must be enabled by the customer or your administrator.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill-resistant, Privacy, Backlit, Durakey keyboard. HP Premium Keyboard, spill-resistant, Backlit, 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 - Backlit Toggle

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play Pause



F11 - MyHP

F12 - HOME

End

Insert

Delete

Power Button (with LED) – integrated with Fingerprint sensor (optional)

Microsoft Copilot 23

Hidden Function Keys

Fn+R - Break

Fn+S - Svs Ra

Fn+C - Scroll Lock

23. 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 24

Bing Search for IE11

Buy Microsoft Office (Sold separately)

HP Connection Optimizer

HP Easy Clean²⁵

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 Manager²⁶

HP Privacy Settings

HP Services Scan 27

HP Smart Support 28

HP Support Assistant 29

HSA Fusion for Commercial

HSA Telemetry for Commercial

nsa retemetry for comme

Miro Offer 30

myHP 31

Poly Lens 32

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HP Patch Assistant (download) 40

Security Management

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Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes:42

HP Sure Admin 43

HP Sure Click 44

HP Sure Recover 45

HP Sure Run 46

HP Sure Sense

HP Sure Start 47

HP Tamper Lock

Security-TPM

Model: Nuvoton NPCT760HABYX

TCG TPM 2.0

Firmware Version: 7.2.3.1 FIPS 140-2 Compliant: Yes

Model: Infineon SLB9672VU2.0 FW15.23

TCG TPM 2.0

Firmware Version: 15.23 FIPS 140-2 Compliant: Yes

BIOS

Absolute Persistence Module ⁴⁸
BIOS Update via Network
HP BIOSphere Gen6 ⁴⁹
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor ⁵⁰
HP Secure Erase ⁵¹
HP Wake on WLAN

IPv6 Support

Yes

FirstNet Certified

Yes

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

UEFI version: 2.7

Class: 3

24. 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.

25. 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.



Technical Specifications

26. 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

27. 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.

28. HP Smart Suppot 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.

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

- 30. 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.
- 31. MyHP requires Windows 10 or higher OS.
- 32. Poly Lens Desktop requires a Windows OS.
- 33. HP Client Catalog can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html
- 34. HP Client Management Script Library can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools
- 35. 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. Detail please refer to: https://support.hp.com/us-en/computer.
- 36. 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.
- 37. HP Driver Packs can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions/drivers-pack.html
- 38. HP Image Assistant can be downloaded from https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html
- **39.** HP Manageability Integration Kit can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools
- 40. 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.
- 41. 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.
- 42. 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.



- 43. 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.
- 44. HP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 45. HP Sure Recover is available on select HP PCs and requires Windows 10 or 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.
- 46. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 47. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- 48. 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/
- 49. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 50. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 51. 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™.



Technical Specifications

POWER

Power Supply

HP 100W Slim USB Type-C® adapter ⁵² HP Standard 65W USB Type-C® adapter ⁵² HP Slim 65W USB Type-C® adapter ⁵²

Battery

HP Long Life 6 cell, 68Whr Polymer ^{53,54} HP Long Life 3 cell, 56Whr Polymer ^{53,54}

Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes 55

Power Cord

3-wire plug - 1m 52

Battery life

Up to 20hrs with 68Whr battery (Intel U15, UMA graphic, brightness set to 250nits on a 400nits display, 2*8GB LPDDR5x, 256GB SSD, 68Whr Polymer)

Up to 19hrs15mins with 68Whr battery (Intel H28, UMA graphic, brightness set to 250nits on a 400nits display, 2*8GB LPDDR5x, 256GB SSD, 68Whr Polymer)

Up to 16hrs 40mins with 56Whr battery (Intel U15, UMA graphic, brightness set to 250nits on a 400nits display, 2*8GB LPDDR5x, 256GB SSD, 56Whr Polymer)

Up to 15hrs 15mins with 56Whr battery (Intel H28, UMA graphic, brightness set to 250nits on a 400nits display, 2*8GB LPDDR5x, 256GB SSD, 56Whr Polymer)

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



WEIGHTS & DIMENSIONS

Product Weight

Starting at 1.18 kg (2.6 lb) with 56.00 Wh battery Weight will vary by configuration. Does not include power adapter.

Product Dimensions (W x D x H) 56

313.9 mm (W) x 219.9 mm (D) x 10.5 mm (front)/14.9 mm (rear) 12.36 in (W) x 8.66 in (D) x 0.41 in (front)/0.59 in (rear) Maximum height 17.55 mm. (0.69 in)

Pallet Dimensions (W x D x H)57

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

56. 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.

57. 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.

PORTS/SLOTS

Left side

2 Thunderbolt™ 4 USB4™ Type-C® 40 Gbps USB Power Delivery DisplayPort™ 2.1

1 HDMI 2.1

1 Headphone/mic combo jack

Right side

- 1 Super Speed+ USB Type-C® 10Gbps USB signaling rate Power Delivery DisplayPort™ 1.4a
- 1 Super Speed USB Type-A 5Gbps signaling rate Power charging
- 1 Nano SIM card slot (Integrated) optional
- 1 Security lock slot (Integrated)



Technical Specifications

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				
Sustainable Impact Specifications	 Japan PC Green label* Product Carbon Footprint Ocean-bound plastic in SPEAKER, CPU 48.2% post-consumer recycled plastic 80% 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 Notebook model is based on		n and Declared Noise Emissions data for ured Notebook".		
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50	Hz 100VAC, 50Hz		
Normal Operation (Short idle)	5.12 W	4.75 W	4.71 W		
Normal Operation (Short idle) Normal Operation (Long idle)	5.12 W 0.95 W	4.75 W 0.67 W	4.71 W 0.68 W		
Normal Operation (Long idle)	0.95 W	0.67 W	0.68 W		
Normal Operation (Long idle) Sleep Off	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARG for a typically configured PC featuring Microsoft Windows® operating systems.	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a		
Normal Operation (Long idle) Sleep Off Heat Dissipation*	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARGE for a typically configured PC featuring Microsoft Windows® operating systems.	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura g a hard disk drive, a	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle)	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARS for a typically configured PC featuring Microsoft Windows® operating systems of the	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation*	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARGE for a typically configured PC featuring Microsoft Windows® operating systems.	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura g a hard disk drive, a	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr ar 2.32 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STAR for a typically configured PC featurin Microsoft Windows® operating system of the system of t	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/h 2.28 BTU/h	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle)	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARG for a typically configured PC featurin Microsoft Windows® operating system 115VAC, 60Hz 17.46 BTU/hr 3.24 BTU/hr	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/I	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARGE for a typically configured PC featurin Microsoft Windows® operating system of the system of	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/h 1.02 BTU/h	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STAR for a typically configured PC featurin Microsoft Windows® operating system of the system of t	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/h 1.02 BTU/h	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr nr 1.02 BTU/hr		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STARS for a typically configured PC featurin Microsoft Windows® operating system 115VAC, 60Hz 17.46 BTU/hr 3.24 BTU/hr 2.69 BTU/hr 1.06 BTU/hr *NOTE: Heat dissipation is calcullevel is attained for one hour.	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/h 1.02 BTU/h	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr nr 1.02 BTU/hr measured watts, assuming the service		
Normal Operation (Long idle) Sleep Off Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long idle) Sleep Off Declared Noise Emissions (in accordance with	0.95 W 0.79 W 0.31 W NOTE: Energy efficiency data listed model family. HP computers marked U.S. Environmental Protection Agen family does not offer ENERGY STAR for a typically configured PC featurin Microsoft Windows® operating system of the system of t	0.67 W 0.67 W 0.30 W is for an ENERGY STA d with the ENERGY STA cy (EPA) ENERGY STA compliant configura ng a hard disk drive, a em. 230VAC, 50 16.20 BTU/ 2.28 BTU/h 1.02 BTU/h	0.68 W 0.62 W 0.30 W R® compliant product if offered within the AR® Logo are compliant with the applicable R® specifications for computers. If a model ations, then energy efficiency data listed is a high efficiency power supply, and a Hz 100VAC, 50Hz hr 16.06 BTU/hr nr 2.32 BTU/hr nr 2.11 BTU/hr nr 1.02 BTU/hr measured watts, assuming the service		



Optical Drive – Sequential reads	3.0 19.5					
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 IS011469 and IS01043. 					
	This product is 93.2% recycle-able when properly disposed of at end of life.					
Packaging Materials	External:	PAPER/Corrugated		4 g		
		PAPER/Molded pulp	114	1 g		
	Internal:	PAPER/PAPER				
	PLASTIC/Polyethylene low density-LDPE			g		
	The plastic packaging material contains at least 0% recycled content.					
D. 110.0	ntains at least 57.9% recycled conte					
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.					
	ldwide compliance with the new EU s by July 2013, and we will continue e further restricted substances as					
	tatement, see HP RoHS position sta	tement.				
Material Usage	(refer to the HI	P General Specification for the E	wing substances in excess of regulat nvironment at environment/supplychain/gen_spec	•		
	 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) 					



- Teeninear Specification	
	 Benzyl butyl phthalate (BBP) 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: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: Global Citizenship Report http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates: http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf



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.
	 Plastic cushions are made from >90% recycled plastic.
	 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.



Technical Specifications

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. 58

58. 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 20.0V Max Operating Power 100W

Temperature

Operating 0° to 35° C (32° to 95° F) No sustained direct exposure to sunlight, System performance

may be reduced above 32°C (89.6°F)

Non-operating -20° to 60° C (-4° to 140° F) No sustained direct exposure to sunlight, System

performance may be reduced above 32°C (89.6°F)

Relative Humidity

Operating 10% to 90 % (non-condensing)

Non-operating 5% 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-I60C CSA/UL 62368-1 Yes ENERGY STAR® Yes 59

EPEAT® Gold in the United States⁶⁰

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 TC0 Yes **WW RoHS** Yes Low Blue Light Yes

59. Configurations of the HP EliteBook 1040 14 inch G11 Notebook PC that are ENERGY STAR® qualified are identified as HP EliteBook 1040 14 inch G11 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov.
60. 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.



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.

14.0 in WUXGA (1920 x 1200) Anti-Glare UWVA LED sRGB 100 NB2Y 400 TOP eDP 1.4+PSR bent LCD Panel

 Outline Dimensions (W x H)
 306.590x197.600(max)

 Active Area
 301.59 X 188.50 (tvp)

Weight 220(max)

Diagonal Size 14

Surface Treatment Anti-Glare

Touch Enabled Yes

Contrast Ratio 1500: 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

Viewing Angle UWVA 89/89/89

Low Blue Light No

Power Consumption (W, EBL@ 150nits max/ 200nits max))

1.35(max)/1.66(max)

14.0 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2X 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel
 Outline Dimensions (W x H)
 307.590 x 199.550 (max)

 Active Area
 301.590 x 188.500 (tvp)

Weight 210 (max)

Diagonal Size 14

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1000:1(typ)Refresh Rate60 HzBrightness400 nits 1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Backlight WLED **Pixel Resolution** RGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89



Low Blue Light Yes

Power Consumption (W, EBL@

150nits max/ 200nits max)) 1.29 (max) / 1.66 (max)

14.0 in 2.8K (2880 x 1800) BrightView UWVA

OLED+LBL DCI-P3 100 NBZ2 400 eDP 1.4+PSR 120Hz (VRR) bent OLED Panel Outline Dimensions (W x H)

Active Area 301.824x188.640 (typ)

Weight 165(max)

Diagonal Size 14

Surface Treatment Bright View

Touch Enabled No

Contrast Ratio 100,000:1(typ)
Refresh Rate 48~120Hz
Brightness 400 nits 1

Pixel Resolution - Format 2880 x 1800 (UWVA)

Backlight OLED Pixel Resolution RGB

Color Gamut CoverageDCI-P3 100%Color Depth8 bit + FRC 2 bitViewing AngleUWVA 89/89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 4.4 150nits max/ 200nits max))

4.42(max)/4.09(max)

305.450x197.850(max)



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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,215

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264FeaturesPyrite 2.0; TRIM; L1.2

SSD 2TB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280
Capacity 2TB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks4,000,797,360FeaturesPyrite 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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2000 MB/s ±20%Maximum Sequential Write900 MB/s ±20%Logical Blocks500,118,192

Features TCG Opal 2.0; TRIM; L1.2

512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,215

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2000 MB/s ±20%Maximum Sequential Write900 MB/s ±20%Logical Blocks500,118,192FeaturesPyrite 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 512 GB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1000 MB/s ±20%Logical Blocks1,000,215,215FeaturesPyrite 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe NVMe Value

Form Factor M.2 2280
Capacity 1TB
NAND Type TLC
Interface PCIe NVM

Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1600 MB/s ±20%Logical Blocks2,000,409,264FeaturesPyrite 2.0; TRIM; L1.2

PCIe NVMe Gen4X4



NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 Wireless Card vPro® 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 IEEE 802.11r

IEEE 802.11v

Interoperability Wi-Fi certified

Frequency Band • 802.11b/g/n/ax

2.402 – 2.482 GHz • 802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz

5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz

• 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, 4096QAM, 64-QAM, BPSK, CCK, 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

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power³ • 802.11b: +17dBm minimum



• 802.11g: +16dBm minimum

• 802.11a: +17dBm minimum

• 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

Power Consumption

Transmit mode: 2.3 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

ACPI and PCI Express compliant power management

Receiver Sensitivity⁴

•802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum

• 802.11a/q, 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 3.3v +/- 9%

HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology

Bluetooth® Specification

Frequency Band 2402 to 2480 MHz

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

Channels 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® Software

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).

Intel® AX211 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

IEEE 802.11r IEEE 802.11v

Interoperability

Wi-Fi certified

Frequency Band

• 802.11b/g/n/ax

2.402 – 2.482 GHz • 802.11a/n/ac/ax

4.9 – 4.95 GHz (Japan)

5.15 – 5.25 GHz

5.25 – 5.35 GHz

5.47 – 5.725 GHz 5.825 – 5.850 GHz

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

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

WΔPI

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

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• WPA3 (personal) certification

Network Architecture Ad-hoc (Peer to Peer)



Models Infrastructure (Access Point Required)

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• 802.11g: +16dBm minimum • 802.11a: +17dBm minimum

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

Power Consumption • Transmit mode: 2.3 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 ACPI and PCI Express compliant power management

Receiver Sensitivity⁴ •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
 Type 2230: 2.8g

 Operating Voltage
 3.3v +/- 9%

HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology

Bluetooth® Specification 0

Frequency Band 2402 to 2480 MHz

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

Channels 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® Software

Supported

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

2Mbps LE

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).

Intel® BE200 Wi-Fi 7
Bluetooth® 5.4 wireless
card non-vPro® WW
WLAN ¹

Wireless LAN Standards	IEEE 802.11a
	IEEE 802.11ac
	IEEE 802.11ax
	IEEE 802.11b
	IEEE 802.11be
	IEEE 802.11d
	IEEE 802.11e
	IEEE 802.11g
	IEEE 802.11h
	IEEE 802.11i

IEEE 802.11n IEEE 802.11r IEEE 802.11v Wi-Fi certified

IEEE 802.11k

Interoperability Frequency Band

802.11b/g/n/ax
 2.402 – 2.482 GHz
 802.11a/n/ac/ax
 4.9 – 4.95 GHz (Japan)
 5.15 – 5.25 GHz

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

802.11be: MCS0~13, (20MHz, 40MHz, ,80MHz, 160MHz, 320MHz)

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

Modulation

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

Sequence Spread Spectrum, OFDM, QPSK

Security² • 802.1x authentication

• AES-CCMP: 128 bit in hardware

Direct Sequence Spread Spectrum

• 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, 1Mbps: +17dBm minimum

• 802.11g, 6Mpbs: +16dBm minimum

• 802.11a, 6Mbps: +17dBm minimum

802.11n, MCS7(HT20): +14dBm minimum
 802.11n, MCS7(HT40): +13.5dBm minimum

• 802.11ac MCS9(VHT20): 13.5dBm minimum

• 802.11ac MCS9(VHT40): +13.5dBm minimum

• 802.11ac MCS9(VHT80): +12.5dBm minimum

• 802.11ac MCS9(VHT160): +10.5dBm minimum

• 802.11ax MCS11(HE20) (6GHz): +11.5dBm minimum

• 802.11ax MCS11(HE40) (6GHz): +7.5dBm minimum

• 802.11ax MCS11(HE80) (6GHz): +7.5dBm minimum

• 802.11ax MCS11(HE160) (6GHz): +7.5dBm minimum

• 802.11be MCS13(EHT20) (6GHz): 11.5dBm

• 802.11be MCS13(EHT40) (6GHz): 7.5dBm

• 802.11be MCS13(EHT80) (6GHz): 7.5dBm

• 802.11be MCS13(EHT160) (6GHz): 6.5dBm

• 802.11be MCS13(EHT320) (6GHz): 4.5dBm

Power Consumption

Transmit mode: 3.4 W

• Receive mode: 1.8 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

ACPI and PCI Express compliant power management

•802.11b, 1Mbps: -93.5dBm maximum

•802.11b, 11Mbps: -85dBm maximum

• 802.11a/q, 6Mbps: -90.5dBm maximum

• 802.11a/g, 54Mbps: -72.5dBm maximum

• 802.11n. MCS0(HT20): -90dBm maximum

• 802.11n, MCS7(HT20): -71.5dBm maximum

• 802.11n, MCS0(HT40): -88.5dBm maximum

• 802.11n, MCS7(HT40): -68.5dBm maximum

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802.11ac, MCS9(VHT40): -65.5dBm maximum
 802.11ac, MCS9(VHT80): -60.5dBm maximum

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• 802.11ax, MCS11(HE40) (6GHz): -56.5dBm maximum

• 802.11ax, MCS11(HE80) (6GHz): -53.5dBm maximum

802.11ax, MCS11(HE160) (6GHz): -51.5dBm maximum



 802.11be, MCS13(EHT20) (6GHz): -55.5dBm maximum • 802.11be, MCS13(EHT40) (6GHz): -53.5dBm maximum • 802.11be, MCS13(EHT80) (6GHz): -51.5dBm maximum 802.11be. MCS13(EHT160) (6GHz): -48.5dBm maximum • 802.11be, MCS13(EHT320) (6GHz): -45.5dBm maximum

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> 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: 3.1 q 2. Type 1216: 0.8 g

3.3 v +/- 5 %

Operating Voltage

HP Integrated Module with Bluetooth® 4.0/4.1/4.2/5.0/5.1/5.2/5.3 Wireless Card Technology

Bluetooth® Specification

Frequency Band 2402 to 2480 MHz

Number of Available Legacy: 0~79 (1 MHz/CH) **Channels** BLE: 0~39 (2 MHz/CH)

Signaling Data Rate Legacy: 3 Mbps data rate: throughput up to 2.17 Mbps

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Power Consumption Peak (Tx): 330 mW

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Selective Suspend: 17 mW

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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,

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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

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1. Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 7 (802.11BE) functionality requires compatible Windows OS, 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.

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Intel® BE200 Wi-Fi 7 Bluetooth® 5.4 wireless card vPro® WW WLAN ¹ Wireless LAN Standards IEEE 802.11a

IEEE 802.11ac

IEEE 802.11ax

IEEE 802.11b

IEEE 802.11be

IEEE OUZ. I IUE

IEEE 802.11d IEEE 802.11e

IEEE 802.11g

IEEE 802.11h

IEEE 802.11i

IEEE 802.11k

IEEE 802.11n

IEEE 802.11r

IEEE 802.11v

Interoperability Wi-Fi certified

Frequency Band • 802.11b/g/n/ax

2.402 - 2.482 GHz

• 802.11a/n/ac/ax

4.9 - 4.95 GHz (Japan)

5.15 – 5.25 GHz



5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz

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802.11be: MCS0~13, (20MHz, 40MHz, ,80MHz, 160MHz, 320MHz)

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

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

Sequence Spread Spectrum, OFDM, QPSK

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

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

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802.11n, MCS7(HT40): +13.5dBm minimum
 802.11ac MCS9(VHT20): 13.5dBm minimum

• 802.11ac MCS9(VHT40): +13.5dBm minimum

802.11ac MCS9(VHT80): +12.5dBm minimum
 802.11ac MCS9(VHT160): +10.5dBm minimum

• 802.11ax MCS11(HE20) (6GHz): +11.5dBm minimum

• 802.11ax MCS11(HE40) (6GHz): +7.5dBm minimum • 802.11ax MCS11(HE80) (6GHz): +7.5dBm minimum

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• 802.11ac, MCS9(VHT80): -60.5dBm maximum

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• 802.11be, MCS13(EHT80) (6GHz): -51.5dBm maximum

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2Mbps LE

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HP 5000 5G Solution¹

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)

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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)

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n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Wireless protocol standards 3GPP Rel15 5G NR sub-6

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)

Maximum data rates SA 5G/NR sub-6 Peak: 4.67 Gbps (Download), 1.25 Gbps (Upload)

Maximum output power LTE (all bands except B41): 23.0 dBm

LTE B41 HPUE: 26.0 dBm

Maximum power consumption

5G Sub 6: 3,500 mA

Form Factor M.2

Weight 8.7 g (0.307 oz)

 Dimensions
 52.00 x 30.00 x 2.30 mm

 (Length x Width x Thickness)
 (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 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 4000 4G LTE-Advanced Pro ¹ Technology/Operating bands

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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)
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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)

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

GPS bands GPS: L1 (1575.42MHz)

GLONASS: L1 (1602MHz) BeidouB1(1561.098MHz) Galileo E1 (1575.42) QZSS (1575.42 MHz)

Maximum data rates DC-HSPA+: 42.00 Mbps(Download), 11.50 Mbps(Upload)

Maximum output power HSPA+: 23.5 dBm

LTE (all bands except B41): 23.0 dBm

Maximum powerLTE: 1,300 mA (peak); 1,100 mA (average)consumptionHSPA+: 1,100 mA (peak); 800 mA (average)

 Form Factor
 M.2; 3052-S3 Key B

 Weight
 8.0 g (0.282 oz)

52.00 x 30.00 x 2.30 mm 52.00 x 30.00 x 2.30 mm (2.05 x 1.18 x 0.09 inch) (2.05 x 1.18 x 0.09 inch)

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 Mirage WNC XRAV-1 Dimensions (L x W x H) 17 x 10 x 2.0 mm

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 Type 1, Type 2, Type 3 / Type 4, NFCIP-1 / 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-

ISO/IEC 14443 A

VICC) Mode

ISO/IEC 14443 B and B'

MIFARE FeliCa

13.56 MHz **Frequency**

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)

Storage temperature Operating: 10% - 90% (non-condensing)

Non-Operating: 5% - 95% (non-condensing)

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

Non-Operating: 5% - 95% (non-condensing)

Supply Operating voltage 4.35 to 5.25 Volts

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 LTE-M 1 Technology/Operating (no Internet)*

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 GSM/GPRS/EGPRS: 1800, 1900, 850, 900 MHz

Wireless protocol standards

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

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

Maximum power

consumption

LTE: 147 mA(peak), 60 mA(average)

Weight 4.0 q (0.141 oz)

Dimensions

(Length x Width x

Thickness)

22.00 x 42.00 x 2.30 mm (0.87 x 1.65 x 0.09 inch)

eSIM Support

1.LPWAN (also called Mobile Narrowband) supports HP Protect & Trace with Wolf Connect service through the subscription term, but does not support mobile broadband use.

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 Weight Standard USB type C

Straight 1.8m

240a ± 10a 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

5V/15W Output **Output power**

> 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 **C6 AC Inlet Type**

DC Cable Connector USB type C

DC Cable Material PVC

C6 Connector

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

temperature

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

temperature

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

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

EMI and Safety 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 65W Slim USB-C Straight AC Power Adapter **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 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 32°F to 95°F (0° to 35°C)

temperature

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

temperature

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

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

EMI and Safety Certifications

Output

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 **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

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/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 32°F to 95°F (0° to 35°C)

temperature

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

temperature

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

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications

Output

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)

HP 3-cell Long Life Li-Ion Weight

(56WHr) 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 capacity¹ 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 No

Available

HP 6-cell Long Life Li-Ion Weight

(68WHr) 1

Weight 0.255kg +/- 10g(0.562 lb)

Cells/Type 6cell Lithium-Ion Polymer cell /594461

Energy Voltage 11.58V

Amp-hour capacity 5.88Ah Watt-hour capacity 68Wh

Temperature Operating (Charging) 32° to 113° F (0° to 45° C)

Operating (Discharging) 14° to 140° F (-10° to 60° C)

Optional Travel Battery No

Available

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 16-bit to 24-bit;48.0 kHz to 48.0 kHz

ADC: Supports resolutions from 16-bit to 24-bit;44.1 kHZ to 48.0 kHz

Internal Speaker Yes

FINGERPRINT READER

Sensor vendorSYNAPTICSSensor typeCapacitiveDPI resolution363 DPI

Scan area 104 x 86 pixels

False Rejection Rate < 3%False Acceptance Rate < 0.001%Mobile Voltage Operation $2.7 \text{ V} \sim 3.6 \text{ V}$

Operating Temperature 5°C ~ 60°C (41°F ~ 140°F)

Current Consumption 100 mA max

Image

Low Latency Wait For

Finger

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

260 uA

Sensor vendorELANSensor typeCapacitiveDPI resolution508 DPIScan area80 x 80 pixels

False Rejection Rate < 3%False Acceptance Rate < 0.001%Mobile Voltage Operation $2.7 \text{ V} \sim 3.6 \text{ V}$

Operating Temperature $-20^{\circ}\text{C} \sim 80^{\circ}\text{C} (-4^{\circ}\text{F} \sim 176^{\circ}\text{F})$

Current Consumption 35 mA max

Image

Low Latency Wait For 300 uA

Finger

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



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)

Ouad 4K @60Hz

4

Max. resolutions supported

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
Technical limitations

 $2 \times HDMI \ 2.0, 1 \times USB-C \ Alt \ Mode, 1 \times Thunderbolt \ 4, 2 \times DisplayPort \ 1.4$ 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

3

Total number of supported displays (incl. the notebook display)

Max. resolutions supported

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.

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

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



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)
Max. resolutions supported

3

Multi-Function Mode: (3) 4K DCI @ 30Hz on any port High-Resolution Mode: (3) 4K DCI @ 30Hz on any port

1x HDMI 2.0, 2x DisplayPort 1.2

Dock Connectors

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.



QuickSpecs

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

Туре	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
Cases	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 15.6 iron gray Laptop Backpack	6H2D8AA
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	9Н0Н9АА



QuickSpecs

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

	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA
Keyboard/Combo	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+ Bluetooth® Wireless Keyboard	3Z726AA
Mouse	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	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
Power	HP 110W USB-C Laptop Charger	8B3Y2AA
	HP 65W USB-C Laptop Charger	600Q8AA
Video	HP USB-A 325 Webcam	53X27AA
	HP Streaming 965 Webcam	695J5AA
	HP 625 Webcam	6Y7L1AA



QuickSpecs

HP EliteBook 1040 14 inch G11 Notebook PC

Change Log

Date of change:	Version History:	Description of change:	
	V1 to V2		

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