Overview

HP EliteBook 860 16 inch G11 Notebook PC



- **1.** ACS & ALS
- 2. Internal Microphone (2)
- 3. Webcam LED

- 4. Webcam
- 5. Camera Shutter
- 6. Touchpad



Overview



Sides

- 1. HDMI 2.1
- 2. Super Speed USB Type-A[®] 5Gbps Power charging
- Thunderbolt[™] 4 USB4[™] Type-C[®] 40 Gbps USB Power **9.** Super Speed USB Type-A[®] 5Gbps Power charging 3. Delivery DisplayPort[™] 1.4
- Thunderbolt[™] 4 USB4[™] Type-C[®] 40 Gbps USB Power **10.** Headphone/mic combo jack 4. Delivery DisplayPort[™] 1.4
- **Power Indicator LED** 5.
- Smart Card Reader (Integrated) 6.
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt[™] 4.

- 7. Nano SIM card slot (Integrated)
- 8. Security lock slot (Integrated)



PRODUCT NAME

HP EliteBook 860 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 (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing Agreement) ¹ Windows 11 Pro ¹ Windows 11 Pro Education 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 P-cores	Number of E-cores	Number Of LP E-core	Threads	L3 Cache		o Frequency ⁴	Intel SIPP/ vPro® Enterprise				
		F-LUIES	L-CUIES	L-COIE	1	1	P-cores	E-cores	Litter prise				
Intel [®] Core™	16	6	8	2	22	24 MB	5.00 GHz	3.80 GHz	х				
Ultra7 165H	cores	Ū	0	2	~~~	24110	5.00 012	5.00 0112	^				
Intel [®] Core™	16	6	•	_		24 MD	4.80 Ghz	3.80 GHz					
Ultra7 155H	cores	6	8	2	22	24 MB							
Intel [®] Core™	14	s 4	4	4			•	-	10	10 MD			v
Ultra5 135H	cores		8	2	18	18 MB	4.60 GHz	3.60 GHz	Х				
Intel [®] Core™	14	4					_	10	10.110	4 50 511			
Ultra5 125H	cores		8	2	18	18 MB	4.50 GHz	3.60 GHz					
Intel [®] Core™	12	2	-		0	2	14			2 00 011-	х		
Ultra7 165U	cores		8	2	14	12 MB	4.90 GHz	3.80 GHz	×				
Intel [®] Core™	12	2	0	-	14			2 00 011-					
Ultra7 155U	cores		8	2	14	12 MB	4.80 GHz	3.80 GHz					
Intel [®] Core™	12	2	_	•			40.40	1.40.51		X			
Ultra5 135U	cores		8	2	14	12 MB	4.40 Ghz	3.60 GHz	Х				
Intel [®] Core™	12	2	•			12.45	4.20.51						
Ultra5 125U	cores		8	2	14	12 MB	4.30 Ghz	3.60 GHz					

Processor Family

Intel® Core™ Ultra7 processor Intel® Core™ Ultra5 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. 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. 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

GRAPHICS

Integrated

Intel[®] ARC Graphics ⁷ Intel[®] Graphics

Supports UMA: Support HDMI 2.1 ⁸

7. Intel[®] Arc[™] graphics only available on select Intel[®] Core[™] Ultra H-series processor-powered systems with at least 16GB of system memory in dual channel configuration. 8. 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 ^{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%^{9,10,12}

40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED + Low Blue Light , 400 nits, low power, sRGB 100% ^{9,10,12}

40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED, 300 nits, NTSC 45% 9,10,12

Touch

40.6 cm (16") diagonal, WUXGA (1920 x 1200), Bent, LCD, touch, UWVA, anti-glare, WLED, 300 nits, NTSC 45% [9,10,12

Display Size (Diagonal)

40.6 cm 16"



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.

DOCKING (Sold Separately)

Docking station model #1	HP USB-C Dock G5			
Docking station model #2	HP Thunderbolt 120W G4 Dock			
Docking station model #3	HP 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 44.				



STORAGE AND DRIVES

Primary Storage

2 TB PCIe[®] Gen4x4 NVMe[™] SSD Three Layer Cell ¹³ 1 TB PCIe[®] Gen4x4 NVMe[™] SSD Three Layer Cell ¹³ 1 TB PCIe[®] NVMe[™] SSD Value ¹³ 512 GB PCIe[®] Gen4x4 NVMe[™] Self Encrypted OPAL2 SSD Three Layer Cell ¹³ 512 GB PCIe[®] Gen4x4 NVMe[™] SSD Three Layer Cell ¹³ 512 GB PCIe[®] NVMe[™] SSD Value ¹³ 256 GB PCIe[®] NVMe[™] Self Encrypted OPAL2 SSD Value ¹³ 256 GB PCIe[®] NVMe[™] SSD Value ¹³

13. 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

64GB DDR5-5600 MT/s (2 x 32 GB) RAM ¹⁴

Memory

64GB DDR5-5600 MT/s (2 x 32 GB) RAM ¹⁴ 32GB DDR5-5600 MT/s (2 x 16 GB) RAM ¹⁴ 32GB DDR5-5600 MT/s (1 x 32 GB) RAM ¹⁴ 16GB DDR5-5600 MT/s (2 x 8 GB) RAM ¹⁴ 16GB DDR5-5600 MT/s (1 x 16 GB) RAM ¹⁴ 8GB DDR5-5600 MT/s (1 x 8 GB) RAM ¹⁴

Memory Slots 2 SODIMM System runs at 5600 MT/s

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



NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 vPro WLAN Wireless Card ¹⁵ Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 WLAN Wireless Card ¹⁵

WWAN

HP 5G Sub-6 Cat 19 WWAN eSIM ^{16,17} HP 4G LTE-A Pro Cat16 WWAN eSIM ¹⁶

LPWAN

Qualcomm[®] 9205 ¹⁸

NFC

NFC NXP NPC300 19

Miracast

Native Miracast Support ²⁰

15. 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.

16. 4G LTE module is optional, must be configured at the factory, requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.

17. 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.

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

19. Sold separately or as an optional feature.

20. 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 2 Integrated stereo speakers Discrete Amplifiers 2 Integrated dual array microphones

Speaker Power

1W/8ohm Per speaker

Camera

5MP+Infrared camera ²¹ 5MP camera ²¹

Sensors

Ambient Light Sensor Adaptive Color Sensor Hall Effect Sensor Thermal Sensor HP Tamper Lock ²² HP Sure Platform Fingerprint Sensor

21. Sold separately or as an optional feature.

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, with numeric keypad, Privacy, Backlit, Durakey keyboard.²³ HP Premium Keyboard, spill-resistant, with numeric keypad, Backlit, Durakey keyboard.²³ HP Premium Keyboard, spill-resistant, with numeric keypad, Durakey keyboard.

Pointing Device

Clickpad with multi-touch gesture support Microsoft Precision Touchpad Default Gestures Support Multi-touch gesture 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 F11 - Airplane Mode F12 - HP Command Center Power Button (with LED) Delete Home End Microsoft Copilot ²⁴

Hidden Function Keys

Fn+R – Break Fn+S - Sys Rq Fn+C - Scroll Lock

23. Backlit keyboard is an optional feature.

24. Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. See http://aka.ms/WindowsAlFeatures

SOFTWARE AND SECURITY

Software

Adobe Offer Bing Search for IE11 Buy Microsoft Office (Sold separately) HP Connection Optimizer HP Easy Clean 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 HP Privacy Settings HP Services Scan ²⁵

HP Support Assistant ²⁶ HSA Fusion for Commercial Miro Offer ²⁷

Manageability Features

HP Client Catalog (download) HP Client Management Script Library (download) HP Cloud Recovery ²⁸ HP Connect for Microsoft Endpoint Manager ²⁹ HP Driver Packs (download) HP Image Assistant (download)



HP Manageability Integration Kit (download) ³⁰ HP Patch Assistant (download) ³¹

Security Features

HP Client Security Manager HP Sure Admin ³² HP Sure Click HP Sure Recover ³³ HP Sure Run ³⁴ HP Sure Sense HP Sure Start ³⁵ HP Tamper Lock HP Wolf Security of Business ³⁶ Secured-Core PC Enable ³⁷ Windows Hello Enhanced Sign-In Security (ESS)

Security

TPM Model[®]

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 ³⁸ BIOS Update via Network HP BIOSphere ³⁹ HP DriveLock & Automatic DriveLock HP Fingerprint Sensor ⁴⁰ HP Secure Erase ⁴¹ HP Wake on WLAN Battery Health Manager ⁴²

Smartcard Reader

Model number: Alcorlink AK9563 FIPS 201 Compliant: Yes

IPv6 Support Yes

FirstNet Certified TBD

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



25. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the HP Insights 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. Select HP Workforce Solutions require an HP Insights agent for Windows, Mac, & Android, available for download at https://admin.hp.com/software. For full system requirements and services that require the agent, please visit https://admin.hp.com/requirements. The agent collects telemetry and analytics around devices and applications that integrate into the Workforce Experience platform and is not sold as a standalone service. Internet access with connection to the Workforce Experience platform is required. HP follows stringent GDPR privacy regulations, and the platform is IS027001, IS027701, IS027017 and SOC2 Type2 certified for Information Security. Not available in China.

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

27. 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.

28. 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/document/c05115630.

29. 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.

30. HP Manageability Integration Kit can be downloaded from

http://www8.hp.com/us/en/ads/clientmanagement/overview.html.

31. 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.

32. 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

33. 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.

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

35. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.

36. 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.

37. 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.

38. 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/

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

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

41. 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™.

42. 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

POWER

Power Supply

HP Slim 100W USB Type-C[®] adapter ⁴³ HP Standard 65W USB Type-C[®] adapter ⁴³ HP Slim 65W USB Type-C[®] adapter ⁴³

Battery

HP Long Life 6 cell 76Whr Polymer ^{44,45} HP Long Life 3 cell 56Whr Polymer ^{44,45}

Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes ⁴⁶

Power Cord

3-wire plug - 1m

Battery life

Up to 19 hours and 15 minutes with 76whr battery (HP Long Life 3-Cell, 76 Whr Polymer, UMA graphic, Intel Ultra 7 U15 vPro, Display set to 250 nits display (on a 400-nit display), 2*8G DDR5 memory, 256 GB SSD)

Up to 17 hours and 15 minutes with 76whr battery (HP Long Life 3-Cell, 76 Whr Polymer, UMA graphic, Intel Ultra 7 H28 vPro, Display set to 250 nits display (on a 400-nit display), 2*8G DDR5 memory, 256 GB SSD) ⁴⁷

Up to 13 hours and 15 minutes with 56whr battery (HP Long Life 3-Cell, 56 Whr Polymer, UMA graphic, Intel Ultra 7 U15 vPro, Display set to 250 nits display (on a 400-nit display), 2*8G DDR5 memory, 256 GB SSD) ⁴⁷

Up to 12 hours and 30 minutes with 56whr battery (HP Long Life 3-Cell, 56 Whr Polymer, UMA graphic, Intel Ultra 7 H28 vPro, Display set to 250 nits display (on a 400-nit display), 2*8G DDR5 memory, 256 GB SSD) ⁴⁷

43. Availability may vary by country.

44. Battery is internal and not replaceable by customer. Serviceable by warranty.

45. 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.

46. 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.

47. Mobile Mark 25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.



WEIGHTS & DIMENSIONS

Product Weight

Starting at 1.729 kg (3.81 lb) with 56.00 Wh battery Weight will vary by configuration. Does not include power adapter.

Product Dimensions (W x D x H) ⁴⁸

358.81 (W) x 251.30 (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) Maximum height 19.2mm / Maximum height 0.75 in

Pallet Dimensions (W x D x H)⁴⁹

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

48. 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.
49. 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[™] 1.4 ⁵⁰

1 Super Speed USB Type-A 5Gbps Power charging

1 HDMI 2.1 ⁸

1 Smart Card Reader (Integrated)

Right side

1 Super Speed USB Type-A 5Gbps Power charging

1 Headphone/mic combo jack

1 Nano SIM card slot (Integrated)

1 Security lock slot (Integrated)

50. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.
8. HDMI cable sold separately.



SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for HP Long Life batteries which will follow the one or three year warranty of the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.⁵¹

51. 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 D	

(AC Power)	
Nominal Operating Voltage	20.0V
Average Operating Power	W
Max Operating Power	UMA 65W
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	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-145C-4
CSA/UL 62368-1	Yes
ENERGY STAR [®]	Yes 52
EPEAT [®]	EPEAT [®] Gold in the United States ⁵³
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
	Yes
WW RoHS	Yes
Low Blue Light	Yes

52. Configurations of the HP EliteBook 860 16 inch G11 Notebook PC that are ENERGY STAR® qualified are identified as HP EliteBook 860 16 inch G11 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov.
53. 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.

16.0 in 2.8K (2880 x 1800)	Outline Dimensions (W x H)	348.078 x 224.19 (max)
BrightView UWVA	Active Area	344.448 x 215.280 (typ)
OLED+LBL DCI-P3 NBZ2 400 eDP 1.4+PSR 100 48H-	Weight	220 (max)
120Hz (VRR) bent OLED	Diagonal Size	16
Panel	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
	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%
Color Depth	8
Viewing Angle	UWVA 85/85/85/85



1200) Anti-Glare UWVALE NTSC 45 NB2X 300 GPDT A (bightActive Area344.6784x215.424 (typ)Weight300 (max)Jagonal Size16Jagonal SizeAtti-GlareJufter TertamentNoJufter Tertament100:1(typ)Jufter Tertament60 H2Jufter Tertament300 ints ¹ Jufter State100 ints ¹ Jufter State	rechnical Specifications			
150.tis max/ 200nits max)) N/A 16.0 in WUX6A (1920 x 12000 Anti-Clare UWVA WLED+LBL sk68 NB2Y 400 Digonal Size 350.680 x 226.470 (max) Active Area 344.678 x 215.424 (typ) Weight 330 (max) Digonal Size 16 Digonal Size 16 Outrice Enabled No Contrast Ratio 1000:1 (typ) Refresh Rate 60 Hz Pixel Resolution - Format 1920 x 1200 (WUXGA) Backlight WLED Pixel Resolution - Format 1920 x 1200 (WUXGA) Backlight WLED Pixel Resolution - Format 1920 x 1200 (WUXGA) Backlight WLED Pixel Resolution - Format 1920 x 1200 (WUXGA) Bocklight WLED Pixel Resolution - Format 1920 x 1200 (WUXGA) Bocklight WLED Pixel Resolution Sige SGB 100% Color Gamut Coverage SGGB 100% Color Gamut Coverage SGGB 100% Low Blue Light Yes Power Consumption (W, EBL Mctice Area Yeight 390 (max) 11gonal Size 16 Suffer Trace Treatment Anti-Glare Touch Enabled No Contrast Ratio So0 Its ¹³ <		Low Blue Light	Yes	
1200) Anti-Glare UWVA WEDP-IBL: sRGB ME27 400 GDT 1.4.PSEZ Low-Powr 100 bent LCD PanelActive Area Weight 330 (max)100 bent LCD PanelNati-Glare Surface TreatmentAnti-Glare 1000:1 (typ)100 contrast Ratio1000:1 (typ)Refresh Rate60 Hz Brightness400 nits!100 contrast Ratio1000:1 (typ)Refresh Rate60 Hz Brightness400 nits!100 contrast Ratio1000:1 (typ)Refresh Rate60 Hz 			N/A	
1200) Anti-Glare UWVA WLED-LBL sRGB ME2Y 400 Depart 1.4F952 Low-Power 100 bent LCD PanelActive Area Weight Digonal Size330 (max) 330 (max)100 bent LCD PanelNa Contrast Ratio1000:1 (typ) Refresh RateKo Contrast Ratio100 contrast Ratio1000:1 (typ)Refresh Rate60 HzBrightness400 nits'Pixel Resolution - Format1920 x 1200 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut Coverage Color Depth8Viewing AngleUWVA 89/89/89/89Low Blue LightYesYSC 45 ME2X 300 eDP 1.2 W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in WUXGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUXSGA (1920 x W/O PSR bent LCD PanelOutline Dimensions (W x H) Active Area150.0 in SUX ANA Color Earth Earth <td>16 0 in WIIYGA (1920 y</td> <td>Autline Dimensions (W x H)</td> <td>250 680 v 226 470 (mav)</td>	16 0 in WIIYGA (1920 y	Autline Dimensions (W x H)	250 680 v 226 470 (mav)	
WLED-LBL SRGB NB2Y 400 eDP 1.a+PSR2 Low-Power 100 bent LCD Panel 9 Uright 330 (max) 100 bent LCD Panel 9 Garta C Treatment Anti-Glare 1000:1 (typ) 1000:1 (typ) 1	-			
BDP 1.4.PSR2 Low-Power Diagonal Size 16 100 bent LCD Panel 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 Viewing Angle UWVA 89/89/89/89 Low Blue Light Yes Power Consumption (W, EBL@ 150.680 x 226.470 (max) T200) Anti-Glare UWVA LED Active Area 344.6784x215.424 (typ) Wieight 390 (max) Weight 390 (max) Diagonal Size 16 Surface Treatment Anti-Glare No Contrast Ratio 1000:1(typ) Refresh Rate 60 Hz Surface Treatment No Contrast Ratio 1000:1(typ) Refresh Rate 60 Hz Surface Treatment No Contrast Ratio 1000:1(typ)				
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1200 Anti-Glare UWVALE NTSC 45 NB2X 300 GPDTActive Area344.6784x215.424 (typ)Wight300 (max)Jagonal Size16Jarace TratmentArti-GlareJufte TratmentNoContrast Ratio001 (typ)Brightness00 nits1Jufter Signal Contrast1200 nits1Jack RationNEJack RationNeBrightnessNeJufter Signal ContrastNeJufter Signal ContrastNe </td <td></td> <td></td> <td>1.60 (max)/ 1.95 (max)</td>			1.60 (max)/ 1.95 (max)	
NTSC 45 NB2X 300 eDP 1.2 w/o PSR bent LCD Panel Veight 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 Pixel Resolution RGB Color Gamut Coverage NTSC 45% Color Depth 6 bits + 2FRC Viewing Angle UWVA 89/89/89	16.0 in WUXGA (1920 x	Outline Dimensions (W x H)	350.680 x 226.470 (max)	
Weight390 (max)Diagonal Size16Surface TreatmentAnti-GlareTouch EnabledNoContrast Ratio1000:1(typ)Refresh Rate60 HzBrightness300 nits1Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightKeBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWA 89/89/89/89		Active Area	344.6784x215.424 (typ)	
Diagonal Size16Surface TreatmentAnti-GlareTouch EnabledNoContrast Ratio1000:1(typ)Refresh Rate60 HzBrightness300 nits1Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Viewing AngleUWVA 89/89/89/89		Weight	390 (max)	
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Contrast Ratio1000:1(typ)Refresh Rate60 HzBrightness300 nits1Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89		Surface Treatment	Anti-Glare	
Refresh Rate60 HzBrightness300 nits1Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89		Touch Enabled	No	
Brightness300 nits1Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89		Contrast Ratio	1000:1(typ)	
Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89/89		Refresh Rate	60 Hz	
Pixel Resolution - Format1920 x 1280 (WUXGA)BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89/89		Brightness	300 nits ¹	
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Color Gamut CoverageNTSC 45%Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89		-	RGB	
Color Depth6 bits + 2FRCViewing AngleUWVA 89/89/89				
Viewing Angle UWVA 89/89/89		-		
		-		
		Low Blue Light	Νο	



QuickSpecs

	Power Consumption (W, EBL@ 150nits max/ 200nits max))	2.7 (max)/3.4 (max)
16.0 in WUXGA (1920 x	Outline Dimensions (W x H)	350.680 x 226.470 (max)
1200) Anti-Glare UWVA LED	Active Area	344.6784x215.424 (typ)
NTSC 45 NB2X 300 TOP eDP 1.2 w/o PSR bent LCD Panel	Weight	390 (max)
1.2 W/U FSK Delit LCD Fallet	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
	Low Blue Light	No
	Power Consumption (W, EBL@ 150nits max/ 200nits max))	2.7 (max)/3.24 (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	Form Factor	M.2 2280		
IVMe Three Layer Cell	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	Form Factor	M.2 2280		
NVMe Three Layer Cell	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	Form Factor	M.2 2280		
NVMe Three Layer Cell	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	Form Factor	M.2 2280		
Self Encrypted OPAL2	Capacity	256GB		
Value Solid State Drive	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		



512GB PCIe-4x4 2280	Form Factor	M.2 2280		
NVME Self Encrypted	Capacity			
OPAL2 Three Layer Cell	NAND Type	512GB TLC		
Solid State Drive	Interface			
	Maximum Sequential Read	PCIe NVMe Gen4X4		
	Maximum Sequential Write	6400 MB/s ±20% 3500 MB/s ±20%		
	Logical Blocks	1,000,215,215		
	Features	TCG Opal 2.0; TRIM; L1.2		
SSD 256GB 2280 PCIe	Form Factor	M.2 2280		
NVMe Value	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	Form Factor	M 2 2200		
NVMe Value	Capacity	M.2 2280		
NVIIC Value		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	Form Factor	M.2 2280		
Value	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		

NETWORKING/COMMUNICATIONS

	+BT Wireless LAN Standards	IEEE 802.11a
5.3 M.2 160MHz CNVi		IEEE 802.11b
World-wide WLAN vP	ro	IEEE 802.11g
Wireless Card ¹		IEEE 802.11n
		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		IEEE 802.11r IEEE 802.11v
	Interesershility	
	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
		5.15 – 5.25 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 Datas	
	Data Rates	• 802.11b: 1, 2, 5.5, 11 Mbps
		• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11n: max 300Mbps
		• 802.11ac : 1733Mbps
		• 802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum
	modulation	
		OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
		, 1024QAM
	Security ²	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
		AES-CCMP: 128 bit in hardware
		802.1x authentication
		 WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
		WPA2 certification
		WPA3 certification
		• IEEE 802.11i
		• WAPI
	Network Architecture	Ad-hoc (Peer to Peer)
	Models	
		lafa atmost and (A and a Daint Damain d)

Infrastructure (Access Point Required)

Roaming	IEEE 802.11 com	IEEE 802.11 compliant roaming between access points		
Output Power ³	• 802.11b : +17dBm minimum			
	• 802.11g : +16d	• 802.11g : +16dBm minimum		
	• 802.11a : +17d			
		(2.4GHz) : +14dBm minimum		
		(2.4GHz) : +13dBm minimum		
		(5GHz) : +14dBm minimum		
		(5GHz) : +13dBm minimum 80(5GHz) : +10dBm minimum		
		60(5GHz) : +10dBm minimum		
		0(2.4GHz) : +12dBm minimum		
)(5GHz) : +10dBm minimum		
	• 802.11ax HE16	50(5GHz) : +10dBm minimum		
Power Consumption	• Transmit mode	2.0 W		
	• Receive mode ?			
	· · · · · · · · ·) 180 mW (WLAN Associated)		
		W (WLAN unassociated)		
	 Connected Star Radio disabled 	-		
Device Mene comout		-		
Power Management		ress compliant power management nt power saving mode		
Receiver Sensitivity⁴	-			
Receiver Jensitivity		• 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			
		11(HE80): -54dBm maximum		
		11(HE160): -53.5dBm maximum		
Antenna type	High efficiency a	ntenna with spatial diversity		
	Two embedded t	tri-band 2.4/5/6 GHz antennas are provided to the card to		
	support WLAN M	IMO communications and Bluetooth communications		
Form Factor	PCI-Express M.2 MiniCard			
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm			
Weight	Type 2230 : 2.8g			
Operating Voltage	3.3v +/- 9%			
Temperature	Operating	14° to 158° F (–10° to 70° C)		
	Non-operating	–40° to 176° F (–40° to 80° C)		
Humidity	Operating	10% to 90% (non-condensing)		
	Non-operating	5% to 95% (non-condensing)		
Altitude	Operating	0 to 10,000 ft (3,048 m)		
	Non-operating	0 to 50,000 ft (15,240 m)		
LED Activity	LED Amber – Ra	dio OFF; LED OFF – Radio ON		

Not all configuration components are available in all regions/countries. c08880576— DA17311 — Worldwide — Version 6 — June 6, 2024



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

		1/5.1/5.2/5.3 Wireless Lard Technology
Blı	uetooth Specification	4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
Fre	equency Band	2402 to 2480 MHz
-	mber of Available annels	Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
Sig	gnaling 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)
Tra	ansmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.
Ро	wer Consumption	Peak (Tx): 330 mW
		Peak (Rx): 230 mW
		Selective Suspend: 17 mW
	uetooth Software pported Link Topology	1. Microsoft Windows Bluetooth Software 2. Linux/Chrome OS Bluetooth Software.
Po	wer Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode
Ce	rtifications	FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407
		ETSI 300 328, ETSI 301 893, ETSI 303 687
Riu	uetooth Software	BT4.1-ESR 5/6/7 Compliance
	pported	LE Link Layer Ping
		LE Dual Mode
		LE Link Layer
		LE Low Duty Cycle Directed Advertising
		LE L2CAP Connection Oriented Channels
		Train Nudging & Interlaced Scan
		BT4.2 ESR08 Compliance
		LE Secure Connection- Basic/Full
		LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies
		LE Data Packet Length Extension
		FAX Profile (FAX)
		Basic Imaging Profile (BIP)2
		Headset Profile (HSP)
		Hands Free Profile (HFP)
		Advanced Audio Distribution Profile (A2DP)
		BT5.2
		ESR9/10 Compliance
		LE Advertisement Extensions Channel Selection Algo
		Limited High Duty Cycle Non-Connectable Advertising



2Mbps LE LE Long Range BT5.3 Host to Controller Encryption Key Control Enahancements Compliance to the latest Errata Sectipn 12.3 of BT 5.3 specification

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 +BT	Wireless LAN Standards	IEEE 802.11a
5.3 M.2 160MHz CNVi		IEEE 802.11b
World-wide WLAN non-		IEEE 802.11g
vPro® Wireless Card ¹		IEEE 802.11n
		IEEE 802.11ac
		IEEE 802.11ax
		IEEE 802.11d
		IEEE 802.11e
		IEEE 802.11h
		IEEE 802.11i
		IEEE 802.11k
		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	• 802.11b: 1, 2, 5.5, 11 Mbps
	Dala Nales	• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11n: max 300Mbps
		-
		• 802.11ac : 1733Mbps • 802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum
		OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM
		, 1024QAM
	Security ²	• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only
	-	AES-CCMP: 128 bit in hardware
		• 802.1x authentication
		• WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES.
		WPA2 certification
		WPA3 certification
		• IEEE 802.11i
		• WAPI
	Network Architecture	Ad-hoc (Peer to Peer)
	Models	
		Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points



Output Power ³	• 802.11b : +17d		
	• 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		
	-	5GHz) : +13dBm minimum	
	• 802.11ac VHT80(5GHz) : +10dBm minimum		
	• 802.11ac VHT160(5GHz) : +10dBm minimum		
)(2.4GHz) : +12dBm minimum	
)(5GHz) : +10dBm minimum	
		60(5GHz) : +10dBm minimum	
Power Consumption	• Transmit mode		
	Receive mode ²	1.6 W) 180 mW (WLAN Associated)	
	-	NW (WLAN Associated)	
	Connected Star		
	Radio disabled		
Power Management	ACPI and PCI Exp	ress compliant power management	
-	-	it power saving mode	
Receiver Sensitivity ⁴	• 802.11b, 1Mbp	s : -93.5dBm maximum	
	• 802.11b, 11Mbps : -84dBm maximum		
		bps : -86dBm maximum	
		1bps : -72dBm maximum	
		7 : -67dBm maximum	
		5 : -64dBm maximum 0(VHT80) : -84dBm maximum	
		9(VHT80) : -59dBm maximum	
		9(VHT160) : -58.5dBm maximum	
		11(HE40): -57dBm maximum	
	• 802.11ax, MCS	11(HE80): -54dBm maximum	
	• 802.11ax, MCS	11(HE160): -53.5dBm maximum	
Antenna type		ntenna with spatial diversity	
		ri-band 2.4/5/6 GHz antennas are provided to the card t	
		IMO communications and Bluetooth communications	
Form Factor	PCI-Express M.2 MiniCard		
Dimensions	Type 2230 : 2.3 x 22.0 x 30.0 mm		
Weight	Type 2230 : 2.8g		
Operating Voltage	3.3v +/- 9%		
Temperature	Operating	14° to 158° F (–10° to 70° C)	
	Non-operating	–40° to 176° F (–40° to 80° C)	
Humidity	Operating	10% to 90% (non-condensing)	
A1.1. I	Non-operating	_	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
	Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity	LED Amber – Rac	lio OFF; LED OFF – Radio ON	



to

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

4.0/4.1/4.2/5.0/5.1/5.2/5.3 Compliant
2402 to 2480 MHz
Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
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)
The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.
Peak (Tx): 330 mW Peak (Rx): 230 mW Selective Suspend: 17 mW
1. Microsoft Windows Bluetooth Software 2. Linux/Chrome OS Bluetooth Software.
ACPI and PCI Express compliant power management 802.11 compliant power saving mode
FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407
ETSI 300 328, ETSI 301 893, ETSI 303 687 BT4.1-ESR 5/6/7 Compliance
LE Link Layer Ping LE Dual Mode LE Link Layer LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels Train Nudging & Interlaced Scan BT4.2 ESR08 Compliance LE Secure Connection- Basic/Full LE Privacy 1.2 –Link Layer Privacy LE Privacy 1.2 –Extended Scanner Filter Policies LE Data Packet Length Extension FAX Profile (FAX) Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP) Advanced Audio Distribution Profile (A2DP) BT5.2 ESR9/10 Compliance LE Advertisement Extensions Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range



BT5.3

Host to Controller Encryption Key Control Enahancements Compliance to the latest Errata Sectipn 12.3 of BT 5.3 specification

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	Technology/Operating	WCDMA/HSPA+ operating bands:
WWAN eSIM ¹	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 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
		Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
		Band 8: 880 to 915 MHz (UL), 925 to 960 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 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 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 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 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
		Band 71: 663 to 698 MHz (UL), 617 to 652 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)
		n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL)
		n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL)
		n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)
		n20: 832 to 862 MHz (UL), 925 to 960 MHz (DL)
		n25: 1850 to 1915 MHz (UL), 191 to 821 MHz (DL)
		n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)
		n30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)
		n38: 2570 to 2620 MHz (UL/DL)



QuickSpecs

Technical Specifications	
	n40: 2300 to 2400 MHz (UL/DL) n41: 2496 to 2690 MHz (UL/DL)
	n48: 3550 to 3700 MHZ (UL/DL)
	n66: 1710 to 1800 MHz (UL), 2110 to 2200 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)
Wireless protocol standard	
	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)
	BeidouB1(1561.098MHz)
	Galileo E1 (1575.42)
	QZSS(1575.42 MHz)
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	3500 mA (peak); 1674mA (average)
consumption	
-	
Form Factor	M.2, 3052-S3 Key B
Weight	8.7g
Dimensions	52 mm × 30 mm × 2.3 mm
(Length x Width x Thicknes	
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 4G LTE-A Pro Cat16	Technology/Operating	WCDMA/HSPA+ operating bands:
WWAN eSIM ¹	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 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
		Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 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 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL)
		Band 8: 880 to 915 MHz (UL), 925 to 960 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 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 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 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 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL)
		Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL)
	Wireless protocol	3GPP LTE Rel15
	standards	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	
C.D.C	• • •	
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	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	LTE: 1300 mA (peak); 1100 mA (average)	
consumption	HSPA+: 1,100 mA (peak); 800 mA (average)	
Form Factor	M.2, 3052-S3 Key B	
Weight	8 g	
Dimensions	52 mm × 30 mm × 2.3 mm	
(Length x Width x		
Thickness)		
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.



QuickSpecs

•		
NFC NXP NPC300	Dimensions (L x W x H)	17 x 10 x 2.0 mm
	Chipset	NPC300
	System interface	12C
	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 cards
	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	0°C to 70°C
	Storage temperature	-20°C to 125°C
	Humidity	10-90% operating
		5-95% non-operating
	Supply Operating voltage	
	I/O Voltage	1.8V or 3.3V
	Power Consumption (Booster enable, VBAT= 3.	3V V((B00ST = 5V)
	Mode	Power Consumption, Typical
	Polling	7.3 mA
	Detected Test Tag Type 1	
		Net Module 236.8 mA
	Detected Test Tag Type 2	Total 288.8 mA
		Net Module 241.8 mA
	Detected Test Tag Type 3	
		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 ¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1900 (Band 25), 850 (Band 26), 800 (Band 27), 700 (Band 28), 1700/2100 (Band 66), 700 (band 85) MHz. GSM/GPRS/EGPRS: 850, 900, 1800, 1900MHz.
	Wireless protocol standards	 3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance specification; Part 1: Conformance specification 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing 3GPP TS 21.111 V10.0.0: USIM and IC card requirements 3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity Module -Mobile Equipment (SIM-ME) interface 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 27.007 V10.0.8: AT command set for User Equipment (UE) 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)
	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 Kbps (Download), 1119 Kbps (Upload) GSM: - GPRS: 107 Kbps (Download), 85.6 Kbps (Upload) - EGPRS: 296 Kbps (Download), 236.8 Kbps (Upload)
	Maximum output power	LTE: 21.5 dBm in all band GSM:34dBm
	Maximum power	LTE: 1,200 mA (peak); 900 mA (average)
	consumption	HSPA+: 1,100 mA (peak); 800 mA (average)
	Form Factor	М.2, 2242-S3 Кеу В
	Weight	5.5 g
	Dimensions (Length x Width x Thickness)	22 x 42 x 2.3 mm
	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	240g ± 10g	
Standard USB type C	Input	100-240Vac	
Straight 1.8m		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 65W Slim USB-C Straight AC Power	Weight Input	220g ± 10g 100-240Vac	
Adapter		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	



Technical Specifi	cations			
HP 100W Slim USB-C	Weight	380g ± 10g		
Straight AC Power	Input	100-240Vac		
Adapter		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 @12.00 89.00% min at 115 Vac/ 230 Vac @15.00 89.00% min at 115 Vac/ 230 Vac @15.00 89.00% min at 115 Vac/ 230 Vac @20.00 89.00% min at 115 Vac/ 230 Vac @20.00		
		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/75W 20V/100W	
		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	Worldwide safety standar IEC62368-1 : 2018, EN623 Agency approvals - C-UL-I Class B, CISPR32 Class B, C NYCE, NRcan, NRCS, ISC, S	with LVD and EMC directives ds - IEC60950-1, IEC 62368-1:2014 and 368-1:2020+A11, UL 62368-1 JS, TUV/GS, TUV/PSE, EN55032 Class B, FCC CCC, CU(EAC), KCC(Safety+EMC), NOM-001 EC, PSB, Argentina S-mark, Australia RCM, BIS, aine(CoC+DoC+RoHS+ECO)	

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	Νο	
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	Νο	
	Cells/Type Energy Temperature Weight Cells/Type Energy	Cells/Type 3cell Lithium-Ion Polymer Energy Voltage Amp-hour capacity Watt-hour capacity ¹ Temperature Operating (Charging) Optional Travel Battery Available Weight 0.357kg +/- 10g(0.787 lb) Cells/Type 6cell Lithium-Ion Polymer Energy Voltage Mmp-hour capacity Matt-hour capacity Optional Travel Battery Available Voltage Amp-hour capacity Energy Voltage Amp-hour capacity Matt-hour capacity Operating (Charging) Operating (Discharging) Operating (Discharging) Operating (Discharging) Operating (Discharging) Operating (Discharging) Operating (Discharging) Operating (Discharging)	

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: 48.0 kHZ to 48.0 kHz
	ADC: 8.0 kHZ to 48.0 kHz
Wavetable Syntheses	N/A
# of Channels on Line-Out	N/A
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	3.0V ~ 3.6 V
Operating Temperature	0°C ~ 60°C (32°F ~ 140°F)
Current Consumption	100 mA max
Image	
Low Latency Wait For	260 uA
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

Sensor vendor	ELAN
Sensor type	Capacitive
DPI resolution	508 DPI
Scan area	80 x 80 pixels
False Rejection Rate	< 3%
False Acceptance Rate	< 0.001%
Mobile Voltage Operation	2.7 V ~ 3.6 V
Operating Temperature	-20°C ~ 80°C (-4°F ~ 176°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

ENVIRONMENTAL DATA

ENVIRUNMENTAL 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 		
Custoinable lena	Japan PC Green la		
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)	4.61 W	4.45 W	4.40 W
Normal Operation (Long idle)	1.96 W	2.79 W	2.68 W
Sleep	1.10 W	1.15 W	1.17 W
Off	0.37 W	0.39 W	0.38 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)	16 BTU/hr	15 BTU/hr	15 BTU/hr
Normal Operation (Long idle)	7 BTU/hr	10 BTU/hr	9 BTU/hr
Sleep	4 BTU/hr	4 BTU/hr	4 BTU/hr
Off	1 BTU/hr	1 BTU/hr	1 BTU/hr
	* NOTE: Heat dissipation is attained for one hour.	s calculated based on the me	asured watts, assuming the service level is



Declared Noise Emissions		Sound Power	Sound Pr	essure
(in accordance with	(L _{wad} , bels) (L _{pAm} , decil		cibels)	
ISO 7779 and ISO 9296)				
Typically Configured – Idle		2.8	16.	8
Fixed Disk – Random writes		3.1	21.	1
Optical Drive – Sequential		3.9	29.	8
reads				
Longevity and Upgrading	This product can be upgraded, possibly extending its useful life by several years. Upgradeable features and/or components contained in the			ral years. Upgradeable
	Spare parts a of production	_	e warranty period and or for up	to "5" years after the end
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 			
	ISO" • This	1043. 5 product is 94% recycle-ab	le when properly disposed of at	end of life.
Packaging Materials	External:	PAPER/Corrugated		358 g
		PAPER/Molded Pulp		162 g
		PAPER/Paper		4 g
	Internal:	PLASTIC/Polyethylene lo	ow density - I DPF	13 g
	The plastic packaging material contains at least 0.0% recycled content.			
The corrugated paper packaging materials contains at least 0.0% recycled content.				
RoHS Compliance	 HP Inc. complies fully with materials regulations. We were among the first companies to externation of Hazardous Substances (RoHS) Direct to our products worldwide through the HP GSE. HP has contributed to the development of reliegislation in Europe, as well as China, India, and Vietnam. 		irst companies to extend bstances (RoHS) Directive	
	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 c	opy of the HP RoHS Compli	ance Statement, see HP RoHS p	osition statement.
Material Usage		does not contain any of th HP General Specification fo	e following substances in excess or the Environment at	s of regulatory limits



 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) 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
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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
 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
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 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
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 Nickel – finishes must not be used on the external surface designed to be frequently handled or carried by the user. Ozone Depleting Substances
handled or carried by the user.Ozone Depleting Substances
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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)
• mbatyt fin (151), filphenyt fin (171), filbatyt fin Oxide (1510)
Packaging Usage HP follows these guidelines to decrease the environmental impact of product packaging:
Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in
packaging materials.
 Eliminate the use of ozone-depleting substances (ODS) in packaging materials.
 Design packaging materials for ease of disassembly.
 Maximize the use of post-consumer recycled content materials in packaging materials.
 Use readily recyclable packaging materials such as paper and corrugated materials.
 Reduce size and weight of packages to improve transportation fuel efficiency.
 Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards.
End-of-life Management HP offers end-of-life HP product return and recycling programs in many geographic areas. To
and Recycling recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest
HP sales office. Products returned to HP will be recycled, recovered or disposed of in a
responsible manner.
The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information
for each product type for use by treatment facilities. This information (product disassembly



	instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	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. 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.



DOCKING (Sold Separately)	
Docking station model #1	HP USB-C Dock G5
Total number of supported displays	3
(incl. the notebook display)	
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 #2	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	2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort
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 #3	HP USB-C G5 Essential Dock
Total number of supported displays	3
(incl. the notebook display)	-
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 #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.		
	105t.		

QuickSpecs

Туре	Description	Part Number
Adapter	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
	HP USB-C to DisplayPort Adapter	N9K78AA
Audio	HP BluetoothTM 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 Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Docking	HP USB-C™ G2 Travel Dock	7PJ38AA
Hub	HP Universal USB-C Multiport Hub	50H55AA
	HP 4K USB-C Multiport Hub	6G843AA
	HP USB-C Travel Hub G3	86S97AA
	HP Universal USB-C Hub and Laptop Charger Combo	9Н0Н9АА
	HP USB-C to USB-A Hub	Z6A00AA
Keyboard/Combo	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	3Z726AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA



QuickSpecs

	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 320K USB Wired Keyboard	9SR37AA
Maura	UD Multi Device Plack C25 Wireless Meuro	100/244
Mouse	HP Multi-Device Black 635 Wireless Mouse	1DOK2AA
	HP Creator Black 935 Wireless Mouse	1DOK8AA
	HP Premium Wireless Mouse	1JR31AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	HP 235 Slim Wireless Mouse	4E407AA
	HP 715 Rechargeable Multi-Device Bluetooth Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Travel Bluetooth Mouse	6SP30AA
	HP 320M Wired Mouse	9VA80AA
Power	HP 65W LC USB-C AC power adapter	1P3K6AA
	HP 65W USB-C Laptop Charger	600Q8AA
	HP 65W USB-C Laptop Charger	671R3AA
	HP 110W USB-C Laptop Charger	8B3Y2AA
Video		
Video	HP USB-A 325 Webcam	53X27AA
	HP Streaming 965 Webcam	695J5AA
	HP 625 Webcam	6Y7L1AA



QuickSpecs

Change Log

Date of change:	Version History:		Description of change:
March15, 2024	V1 to V2	Added	Battery Health Manager
		Removed	HP Smart Support
		Updated	HP Sure Recover Footnote
		Updated	HP Wolf Security Footnote
		Added	Battery Life
		Updated	Dimensions and Weight
March 25, 2024	V2 to V3	Updated	Image
April 23, 2024	V3 to V4	Updated	Battery Life
April 29, 2024	V4 to V5	Updated	Battery Life
June 6, 2024	V5 to V6	Updated	Weight and Dimensions Section

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