HP EliteBook 8 Flip G1i 13 inch Notebook AI PC



1	ACS	& ALS	Sensor
1	ACS	& ALS	Sensor

- 2 Microphone (2)
- IR Camera (optional) 3
- Web Cam

Front

- Camera Shutter 5
- 6 IR LEDS (optional)
- Web Cam LED 7
- 8 Touchpad





Sides						
1	HDMI 2.1	7	Pen garage (Optional)			
2	Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)	8	Nano SIM card slot (Optional)			
3	Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1)	9	LED Indicator			
4	Power Indicator LED	10	USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)			
5	Headphone/mic combo jack	11	USB Type-A 5Gbps signaling rate (Powered)			
6	Smart Card Reader (Optional)	12	Security lock slot (Integrated)			



PRODUCT NAME

HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

OPERATING SYSTEMS

Preinstalled

FreeDOS

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 available with a Volume Licensing Agreement) ¹

Windows 11 Pro 1

Windows 11 Pro Education 1

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}	Number Cores of	Number of	Number of	Number of LP E-cores Threads	Cache		Max Turbo Frequency		Intel SIPP/vPro®	NPU
		P-cores	E-cores			P-cores	E-cores	Enterprise		
Intel® Core™ Ultra7	12 cores	2	8	2	4	12 MB	5.30	4.20	×	12 TOPS
processor 265U	12 (0163	۷	0	2	4		GHz	GHz		
Intel® Core™ Ultra7	12 cores	2	8	2	14	12 MB	5.20	4.20		12 TOPS
processor 255U	12 (0163	۷	0	2	14	1 Z MD	GHz	GHz		12 1073
Intel® Core™ Ultra5	12 cores	2	8	2	14	12 MB	4.90	4.10	х	12 TOPS
processor 235U	12 (0163	۷	O	2	14		GHz	GHz		
Intel® Core™ Ultra5	12 cores	2	8	2	1/1	14 12 MB	4.80	3.80		12 TOPS
processor 225U	12 (0162		0		14		GHz	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. 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.
- 4. For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/vpro



QuickSpecs

GRAPHICS

Integrated

Intel® Graphics

Supported Protocols

Support HDMI 2.1

Displays supported (including Internal display; dock may be required)

Up to 4



DISPLAY

Actual brightness will be lower with touchscreen or HP Sure View. Availability may vary by country.

Touch

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED, 800 nits, sRGB 100%, HP Sure View 5 ⁵

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, Gorilla Glass 7, WLED, 800 nits, sRGB 100%, 33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100%

HP Sure View 5 5

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, Gorilla Glass 7, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100%

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED, 300 nits, sRGB 62.5%

Display Size (Diagonal)

33.8 cm (13.3")

Screen to Body Ratio

84.8% 6

Aspect Ratio

16:10⁷

Max Hinge Open Angle

360°

- 5. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 6. Screen to body ratio is the percent of active plus nonactive viewing area to active viewing area plus border. Measure with lid vertical to the desk
- 7. All performance specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.



DOCKING (SOLD SEPARATELY)

Docking station model #1

41. -

 ${\bf Total\ number\ of\ supported\ displays\ (incl.\ the}$

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
Technical limitations

1x HDMI 2.0, 2x DisplayPort 1.4

Maximum resolution and display support is dependent on the maximum capability

of the notebook.

HP USB-C™ Dock G5

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

mode.

4

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

UHD@ 30 Hz on HDMI in Multi-function mode

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

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

HP Thunderbolt™ 120W G4 Dock

Docking station model #2

Total number of supported displays (incl. the

notebook) display)

Dock Connectors

Technical limitations

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

2x HDMI 2.0, 2x DisplayPort 1.4, 1x Thunderbolt 4, 1x USB-C 3.2 Gen 2 DisplayPort

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.



STORAGE AND DRIVES

2 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ⁸
1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ⁸
1 TB PCIe® NVMe™ SSD Value ⁸
512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ⁸
512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell ⁸
512 GB PCIe® NVMe™ SSD Value ⁸
256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value ⁸
256 GB PCIe® NVMe™ SSD Value ⁸

8. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.



MEMORY

Maximum Memory

64 GB LPDDR5X-8533 MT/s (onboard) 9

Memory

64 GB LPDDR5X-8533 MT/s (onboard) ⁹
32 GB LPDDR5X-7500 MT/s (onboard) ⁹
16 GB LPDDR5X-7500 MT/s (onboard) ⁹

Memory Slots

No memory slots. Memory soldered down. System runs at 7467 MT/sSupports Dual Channel Memory The memory is non-accessible / non-upgradeable

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



NETWORKING / COMMUNICATIONS

Optional feature.

WLAN

Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 vPro® WW WLAN ¹⁰ Intel® BE201 Wi-Fi 7 Bluetooth® 5.4 non-vPro® WW WLAN ¹⁰ Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 vPro® WW WLAN ¹⁰ Intel® AX211 Wi-Fi 6E Bluetooth® 5.3 non-vPro® WW WLAN ¹⁰

WWAN

HP 5G Sub-6 CAT19 ^{11,12} HP 4G CAT19 ¹³

LPWAN

Qualcomm 9205 LTE-M (CAT-M1 fSVC) 13

NFC

NFC Mirage WNC XRAV-1

Miracast

Native Miracast Support 14

- 10. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported.
- 11. 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.
- 12. 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.
- 13. LPWAN (also called Mobile Narrowband) support HP Protect & Trace with Wolf Connect service through the subscription term, but do not support mobile broadband use.
- 14. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.



AUDIO/MULTIMEDIA

Select product only (Privacy panel SKU).

Audio

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

Speaker Power

1W / 8 ohm per speaker

Camera

5MP + Infrared camera 5MP camera

Sensors

Accelerometer
Ambient Light Sensor
Color Sensor with Ambient Light Sensing
Fingerprint Sensor (optional)
Gyroscope
Hall Effect Sensor
HP Tamper Lock ¹⁵
Magnetometer
Thermal Sensor

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



KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium NB Keyboard, spill-resistant, backlit, Durakey keyboard.

HP Premium NB Keyboard, spill-resistant, Durakey keyboard.

HP Premium NB Keyboard, spill-resistant, Privacy, backlit, Durakey keyboard.

Pointing Device

Clickpad

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 - Blank or Keyboard Backlight

F6 - Audio Mute

F7 - Volume Down

F8 - Volume Up

F9 - Mic Mute

F10 - Play and Pause

F11 – Programmable Key

F12 - HOME

Power Button (with LED)

Insert

Delete End

Page up

Page down

Microsoft Copilot 16

Hidden Function Keys

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

Pen (Select models)

Functions

Wake on Pen

One Step Inking

Pen Loss Alert



QuickSpecs

Charging time

30 seconds

Battery life

60 minutes of use

Dimensions

Pen diameter 6.5 mm (0.258 in) Pen length: 135 mm (5.315 in)

Weight

7 grams (0.015 lb)

16. Copilot in Windows requires Windows 11. Some features require an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Microsoft in Windows is not available, the Copilot key will lead to the Bing search engine. Use of Recall requires customer authentication using Windows Hello Enhanced Sign in Security (ESS) which requires a fingerprint reader or facial recognition camera and may not be supported on all platforms. See http://aka.ms/WindowsAlFeatures



SOFTWARE AND SECURITY

Application Software

Buy Microsoft Office (Sold Separately)

HP Connection Optimizer

Edge Customization

HP Hotkey Support

HP Mac Address Manager

HP Notifications

HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics Windows

HP Privacy Settings

HP Services Scan 17

HP Smart Support 18

HP Support Assistant 19

HSA Fusion for Commercial

HSA Telemetry for Commercial

myHP 20

Poly Camera Pro

Poly Lens 21

Manageability Features

HP Client Catalog (download) 22

HP Client Management Script Library (download) 23

HP Cloud Recovery 24

HP Connect for Microsoft Endpoint Manager 25

HP Driver Packs (download) 26

HP Image Assistant (download) 27

HP Manageability Integration Kit (download) 28

HP Power Manager with Battery Health Manager (download) 29

Security Management

Secured-Core PC Enable 30

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes: 31

HP Sure Admin 32

HP Sure Click 33

HP Sure Recover 34

HP Sure Run 35

HP Sure Sense 36

HP Sure Start 37

HP Tamper Lock 38



QuickSpecs

Security-TPM

Model: Nuvoton NPCT760HACYX Firmware Version: 7.2.4.0

TCG TPM 2.0

FIPS 140-2 Compliant: Yes

BIOS

Absolute Persistence Module ³⁹
Audio Permanent Disable
BIOS Update via Network
HP Bios Recovery
HP BIOSphere_⁴⁰
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor ⁴¹
HP Secure Erase ⁴²
HP Wake on WLAN

Smartcard Reader

Alcorlink AK9563E66-GAF-GR (QFN) FIPS 140-2 Compliant: Yes

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

17. 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 ISO27001, ISO27701, ISO277017 and



SOC2 Type2 certified for Information Security. Not available in China.

18. HP Smart Support requires the HP Insights 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 preinstalled and/or provided thru Windows Update and will check entitlement on each hardware device to determine if an HP Insights agent-enabled service has been purchased, and will download applicable software automatically. 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 is required. For full system requirements or to disable this feature, please visit https://www.hpdaas.com/requirements.

- 19. HP Support Assistant is available on Windows. For more information, please visit http://www.support.hp.com/help/hp-support-assistant
- 20. MyHP requires Windows 10 or higher OS.
- 21. Poly Lens Desktop requires a Windows OS.
- 22. HP Client Catalog not preinstalled, however available for download at https://www.hp.com/us-en/solutions/client-management-solutions.html.
- 23. HP Client Management Script Library https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools
- 24. 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.
- 25. 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.
- 26. HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement.
- 27. HP Image Assistant not preinstalled, however available for download at https://ftp.ext.hp.com/pub/caps-softpaq/cmit/HPIA.html
- 28. HP Manageability Integration Kit not presintalled, however available for downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html#tab=manageability-tools.
- 29. HP Power Manager with Battery Health can be downloaded by entering your system information here: https://support.hp.com/in-en/document/ish_4449597-3519507-16.
- 30. 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.
- 31. 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.
- 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 Click requires Windows 10 and higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 34. 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. HP Sure Recover Gen6 with Embedded Reimaging is an optional feature on select HP PCs which requires Windows 10 or 11 must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data.
- 35. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 36. HP Sure Sense requires Windows 10 and higher. See product specifications for availability. On units with WWAN shipping to China, HP Sure Sense is only available via Softpaq download.
- 37. HP Sure Start is available on select HP PCs and requires Windows 10 and higher.
- 38. HP Tamper Lock must be enabled by the customer or your administrator.



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39. Absolute Persistence 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/

- 40. HP BIOSphere features may vary depending on the platform and configuration.
- 41. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 42. 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™.



POWER

Power supply availability may vary by country. Battery is internal and not replaceable by customer. Serviceable by warranty.

Power Supply (availability may vary by country)

HP 100W Slim USB Type-C® AC power adapter
HP 65W Standard USB Type-C® AC power adapter
HP 65W USB Type-C® Gallium Nitride AC power adapter
HP 65W Slim USB Type-C® AC power adapter
HP 65W Standard USB Type-C® Halogen Free AC power adapter

Power Cord

3-wired plug- 1.0m

Battery

HP Long Life 3 cell, 62Whr Polymer

Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes 43

Up to 17 hours and 45 minutes with 62whr battery (HP Long Life 3-Cell, 62 Whr Polymer, UMA graphic, Intel Intel Ultra 7 265U, Display set to 250 nits display (on a 400-nits display), 2*8G LPDDR5 memory, 256 GB SSD) 44

43. 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.

44. MobileMark 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.



QuickSpecs

WEIGHT & DIMENSIONS

Product Weight

Starting at 1.399kg (3.08lb) with 62.00 Wh battery Weight will vary by configuration. Does not include power adapter.

Product Dimensions (w x d x h)

301.80 mm (W) x 216.10 mm (D) x 11.84 mm (front)/ 15.45 mm (rear) (11.88 in (W) x 8.51 in (D) x 0.47 in (front)/ 0.61 in (rear)) Maximum height 18.95 mm (0.75)

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.

Packaging and Pallet Dimensions

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 x Thunderbolt™ 4 with USB Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 2.1) 45

1 x HDMI 2.1

1 x headphone/mic combo jack

1 x Smart Card Reader (Optional)

Right side

1 x USB Type-C[®] 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)

1 x USB Type-A 5Gbps signaling rate (Powered)

1 x Nano SIM card slot (Optional)

1 x Pen garage (Optional)

1 x Security lock slot (Integrated)

45. USB 20Gbps signaling rate is not available with Thunderbolt™ 4. Actual throughput may vary.



ENVIRONMENTAL DATA

Eco-Label Certifications &	This product has received or is i	n the process of being certifie	d to the following approvals				
declarations	and may be labeled with one or	more of these marks:					
	IT ECO declaration						
	 US ENERGY STAR® 						
		agement Program (FEMP)					
		d in the United States. See htt	p://www.epeat.net for				
	registration status in y	our country.					
	TCO Certified	(55.50)					
	China Energy Conserva China State Environment	tion Program (CECP) ntal Protection Administratio:	(CEDA)				
		ntal Protection Administration	1 (SEPA)				
	Taiwan Green MarkKorea Eco-label						
	Japan PC Green label*						
Sustainable Impact	Product Carbon Footpr	int					
Specifications	•		ınd 30% in Speakers¹				
•		 At least 50% ocean bound plastic in the system fan and 30% in Speakers¹ At least 40% post-consumer recycled plastic² 					
	 At least 80% recycled r 	• •					
	Low Halogen ⁴						
	100% of HP paper-based packaging is from recycled or certified sustainable						
	sources ⁵						
	Bulk packaging available						
System Configuration	The configuration used for the E		ared 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)	3.76 W	3.75 W	3.83 W				
Normal Operation (Long idle)	N/A	N/A	N/A				
Sleep	0.67 W	0.70 W	0.66 W				
Off	0.31 W	0.32 W	0.31 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 syst	em.					
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz				
Normal Operation (Short idle)	13 BTU/hr	13 BTU/hr	13 BTU/hr				
Normal Operation (Long idle)	N/A	N/A	N/A				
Sleep	2.3 BTU/hr	2 BTU/hr	2.3 BTU/hr				
Off	1.1 BTU/hr	1 BTU/hr	1.1 BTU/hr				
		- 1	- •				



	*NOTE: Heat dissipation is calculated based on the measured watts, assuming the service						
	level is attained for one hour						
Declared Noise Emissions		Sound Power	Sound Pressure				
(in accordance with ISO 7779 and ISO 9296)		(L _{WAd} , bels)	(L _{pAm} , decibels)				
Typically Configured – Idle		2.6	13.4				
Fixed Disk – Random writes		2.6	13.8				
Optical Drive – Sequential reads		3.2	2.04				
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 90.0% recycle-able when properly disposed of at end of life. 						
Packaging Materials	External:	PAPER/Corrugated	2	!36 g			
		PAPER/paper	2	.1 g			
		PAPER/Molded Pulp	1	03 g			
	The plastic packaging material contains at least 0.0% recycled content.						
	The corrugated paper packaging materials contains at least 57.2% recycled content.						
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies extend the restrictions in the European Union (EU) Restriction of Hazardous Substance (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to 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 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.						
	regulations co	ntinue to evolve.	nce Statement, see HP RoHS position s				



Material Usage	This product does not contain any of the following substances in excess of regulatory limits (refer to the HP General Specification for the Environment at https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c05998906):					
	AsbestosCertain Azo Colorants					
	 Certain Brominated Flame Retardants – may not be used as flame retardants in plastics 					
	CadmiumChlorinated HydrocarbonsChlorinated Paraffins					
	Bis(2-Ethylhexyl) phthalate (DEHP)					
	Benzyl butyl phthalate (BBP)					
	Dibutyl phthalate (DBP)					
	Diisobutyl phthalate (DIBP)					
	Formaldehyde Hala garated Bishamid Mathemas					
	Halogenated Diphenyl Methanes Load sorb protest and sulfates.					
	 Lead carbonates and sulfates Lead and Lead compounds 					
	 Lead and Lead compounds Mercuric Oxide Batteries 					
	Nickel – finishes must not be used on the external surface designed to be					
	frequently handled or carried by the user.					
	Ozone Depleting Substances					
	Polybrominated Biphenyls (PBBs)					
	Polybrominated Biphenyl Ethers (PBBEs)					
	Polybrominated Biphenyl Oxides (PBBOs)					
	Polychlorinated Biphenyl (PCB)					
	Polychlorinated Terphenyls (PCT)					
	 Polyvinyl Chloride (PVC) – except for wires and cables, and certain retail packaging has been voluntarily removed from most applications. 					
	Radioactive Substances					
	Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)					
Packaging Usage	 HP follows these guidelines to decrease the environmental impact of product packaging: 					
	 Eliminate the use of heavy metals such as lead, chromium, mercury and cadmium in packaging materials. 					
	 Eliminate the use of ozone-depleting substances (ODS) in packaging materials. 					
	Design packaging materials for ease of disassembly.					
	 Maximize the use of post-consumer recycled content materials in packaging materials. 					
	 Use readily recyclable packaging materials such as paper and corrugated materials. 					
	 Reduce size and weight of packages to improve transportation fuel efficiency. Plastic packaging materials are marked according to ISO 11469 and DIN 6120 standards. 					



End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: https://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c05403198 or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: HP Product Disassembly Instruction Website. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.		
HP, Inc. Corporate Environmental Information	For more information about HP's commitment to the environment: • Sustainable Impact Report • https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c06040 843 • Eco-label certifications • https://www.hp.com/us-en/sustainable-impact/document-reports.html#filters_documents_reports=document_type-type_energy_star,type_epeat,type_tcolS0 • ISO 14001 certificates • https://h20195.www2.hp.com/v2/GetDocument.aspx?docname=c04777 932		
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product. Ocean Bound plastic is expressed as a percentage of the total weight plastic. Ocean Bound plastic is based on the definition set by the UL2809 standard. Recycled plastic is expressed as a percentage of the total weight plastic. Post-consumer recycled is based on the definition set in the EPEAT standard for computers, IEEE 1680.1-2018 standard. 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. External power supplies, WWAN modules, power cords, cables and peripherals excluded. Service parts obtained after purchase may not be Low Halogen. HP paper and fiber-based packaging for PCs, displays, home and office print, and supplies is reported by suppliers as recycled or certified, with a minimum of 97% by volume verified by HP. Packaging is the box that comes with the product and all paper-based materials inside the box. Packaging for personal systems accessories and spare parts is not included. Plastic cushions are made from >90% recycled plastic. 		



QuickSpecs

SERVICE AND SUPPORT

1-year warranty and 90 day software limited warranty options depending on country. HP Worldwide Limited Warranty for the battery is aligned with the warranty period of the HP Hardware Product. 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. 46

46. 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 UMA 65W

Discrete W

Temperature

Operating 0° to 35° C (32° to 95° F)

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

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

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 grms Non-operating 3.500 grms

Altitude (unpressurized)

Operating 3,048 m (10,000 ft) Non-operating 12,192 m (40,000 ft)

Industry Standard Certifications

Regulatory Model Number HSN-I62C CSA/UL 62368-1 Yes UL 62368-1 Yes ENERGY STAR® Yes ⁴⁷ FCC/ICES/CISPR/VCCI Yes CE MARKING Yes GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC/CEL Yes
Taiwan BSMI/NCC Yes
Korea KCC/KC/KES Yes
Ukraine NSoC/TEC Yes
EAEU Compliance Yes
Saudi Arabian Compliance Yes
TCO Yes

EPEAT Gold EPEAT® Gold in the United States 48

Low Blue Light Yes
WW RoHS Yes
CECP NO

These are requirements from the Category PM, which usually occur after RTP.

At this stage, no requests have been received yet.



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

Medical EMC: IEC 60601-1-2:2014 EN60601-1-2: Yes

2015

NO

SEPA These are requirements from the Category PM, which usually occur after RTP.

At this stage, no requests have been received yet.

MIL-STD Testing MIL-STD 810H⁴⁹

47. Configurations that are ENERGY STAR® qualified are identified as ENERGY STAR on HP websites and on http://www.energystar.gov 48 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.

49. MIL STD testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.



DISPLAYS

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, Gorilla Glass 7, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100% **Active Area** 286.040 x 178.780 mm (typ) **Dimensions (W x H)** 296.08 x 205.32 mm (max)

Weight 280 g (max)
Diagonal Size 13.3 inch
Surface Treatment Anti-Glare
Touch Enabled Yes

Contrast Ratio1,000: 1 (typ)Refresh Rate60 Hz (typ)Brightness400 nits (typ)

Pixel Resolution RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 1.21 W (max) / 1.45 W (max)

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED, 300 nits, sRGB 62.5%

 Active Area
 286.04 x 178.78 mm (typ)

 Dimensions (W x H)
 295.900 x 205.529 mm (max)

Weight 369.47 g (max)
Diagonal Size 13.3 inch
Surface Treatment Bright View

Touch Enabled Yes

Contrast Ratio1,000 : 1 (typ)Refresh Rate60 Hz (typ)Brightness300 nits (typ)

Pixel Resolution RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10

Backlight WLED

Color Gamut Coverage SRGB 62.5%

Color Depth 8 bit

Viewing Angle UWVA 89/89/89/89

Low Blue Light No

Power Consumption 2.28 W (max) / 2.80 W (max)



33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, Anti-Glare, Gorilla Glass 7, WLED, 800 nits, sRGB 100%, HP Sure View 5

 Active Area
 286.041 x 178.776 mm (typ)

 Dimensions (W x H)
 291.340 x 188.180 mm (max)

Weight 230 g (max)
Diagonal Size 13.3 inch
Surface Treatment Anti-Glare
Touch Enabled Yes

Contrast Ratio1,500:1 (typ)Refresh Rate60 Hz (typ)Brightness800 nits (typ)

Pixel Resolution RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 1.61 W (max) / 1.98 W (max)

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED, 800 nits, sRGB 100%, HP Sure View 5 **Active Area** 286.041 x 178.776 mm (typ) **Dimensions (W x H)** 291.340 x 188.180 mm (max)

Weight 230 g (max)
Diagonal Size 13.3 inch
Surface Treatment Bright View
Touch Enabled Yes

Contrast Ratio1,500 : 1 (typ)Refresh Rate60 Hz (typ)Brightness800 nits (typ)

Pixel Resolution RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 1.61 W (max) / 1.98 W (max)



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), LCD, Touch, UWVA, BrightView, Gorilla Glass 7, WLED + Low Blue Light, 400 nits, Low Power, sRGB 100%

 Active Area
 286.040 x 178.780 mm (typ)

 Dimensions (W x H)
 296.08 x 205.32 mm (max)

Weight 280 g (max)
Diagonal Size 13.3 inch
Surface Treatment Bright View

Touch Enabled Yes

Contrast Ratio1,000 : 1 (typ)Refresh Rate60 Hz (typ)Brightness400 nits (typ)

Pixel Resolution RGB

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Aspect Ratio 16:10
Backlight WLED
Color Gamut Coverage SRGB 100%
Color Depth 8 bit

Viewing Angle UWVA 89/89/89

Low Blue Light Yes

Power Consumption 1.21 W (max) / 1.45 W (max)



STORAGE

2 TB PCle® Gen4x4 NVMe™ SSD

Three Layer Cell 1

Form Factor M.2 2280
Capacity 2TB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 4,000,797,360

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

1 TB PCle® Gen4x4 NVMe™ SSD

Three Layer Cell ¹

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

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 5000 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

1 TB PCIe® NVMe™ SSD Value 1

Form Factor M.2 2280
Capacity 1TB
NAND Type Value

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 3500 MB/s ±20%

 Sequential Write
 2700 MB/s ±20%

 Logical Blocks
 2,000,409,264

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell ¹ Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 3500 MB/s ±20%

 Logical Blocks
 1,000,215,215

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.



512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell ¹ Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 6400 MB/s ±20%

 Sequential Write
 3500 MB/s ±20%

 Logical Blocks
 1,000,215,215

Features TCG Opal 2.0; TRIM; L1.2

Not all features are available in all versions.

512 GB PCIe[®] NVMe[™] SSD

Value ¹

Form Factor M.2 2280
Capacity 512 GB
NAND Type Value

 Weight
 10 g (0.02 lb)

 Interface
 PCle NVMe Gen4X4

 Sequential Read
 3500 MB/s ±20%

 Sequential Write
 1600 MB/s ±20%

 Logical Blocks
 1,000,215,215

 Features
 Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.

256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value ¹ Form Factor M.2 2280
Capacity 256 GB
NAND Type Value

 Weight
 10 g (0.02 lb)

 Interface
 PCle NVMe Gen4X4

 Sequential Read
 3100 MB/s ±20%

 Sequential Write
 1200 MB/s ±20%

 Logical Blocks
 500,118,192

Features TCG Opal 2.0; TRIM; L1.2

Not all features are available in all versions.

256 GB PCIe[®] NVMe[™] SSD

Value 1

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

 Weight
 10 g (0.02 lb)

 Interface
 PCIe NVMe Gen4X4

 Sequential Read
 3100 MB/s ±20%

 Sequential Write
 1200 MB/s ±20%

 Logical Blocks
 500,118,192

Features Pyrite 2.0; TRIM; L1.2

Not all features are available in all versions.



QuickSpecs

1. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 32 GB is reserved for system recovery software.



NETWORKING / COMMUNICATION

Intel® AX211 Wi-Fi 6E Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 vPro® WLAN 1 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 • 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps **Modulation Direct Sequence Spread Spectrum** 1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence Spread Spectrum, OFDM, QPSK Security 802.1x authentication • AES-CCMP: 128 bit in hardware • IEEE 802.11i IEEE and WiFi certified 64 / 128 bit WEP encryption for a/b/g

mode only WAPI

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

WPA2 certification

WPA3 (personal) certification

Network Architecture Models Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)



Roaming IEEE 802.11 compliant roaming between access points

Output Power • 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: 2.0 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 Sensitivity 2 • 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 2.30 x 22.00 x 30.00 mm (0.09 x 0.87 x 1.18 inch)

Weight 1. Type 2230: 2.8 g 2. Type 1216: q

3.3 v +/- 9 %

Integrated Bluetooth® specifications

Operating Voltage

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

2402 to 2480 MHz **Frequency Band**



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

BLE: 0~39 (2 MHz/CH)

Data Rates and Throughput Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps

> BLE: 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.

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

Peak (Tx): 330 mW **Power Consumption**

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth® Software Supported Link Topology

Certifications

Microsoft Windows Bluetooth Software

328, ETSI 301 893, ETSI 303 687

Bluetooth® Profiles Supported 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance

Bluetooth 5.2

Bluetooth 5.3 wireless card **Channel Selection Algo** ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP)

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

Headset Profile (HSP)

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

Train Nudging & Interlaced Scan



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.

2. 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 WW WLAN ¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11ax IEEE 802.11b IEEE 802.11d IEEE 802.11e IEEE 802.11g IEEE 802.11h IEEE 802.11h 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
	Data Rates	6.895 – 7.115 GHz
	Dala Rales	• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
		• 802.11b: 1, 2, 5.5, 11 Mbps • 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
	Modulation	Direct Sequence Spread Spectrum
	Piodutation	1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct
		Sequence Spread Spectrum, OFDM, QPSK
	Security	• 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



•	١٨	JΔ	P

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

WPA2 certification

• WPA3 (personal) certification

Network Architecture Models

Ad-hoc (Peer to Peer)

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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
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• Transmit mode : 2.0 W

• Receive mode: 1.6 W

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

Radio disabled: 8 mW

Power Management Receiver Sensitivity ²

ACPI and PCI Express compliant power management

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
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2. Type 1216: g

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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)

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Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth® Software

Supported Link Topology

Certifications

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328, ETSI 301 893, ETSI 303 687

Bluetooth® Profiles Supported 2Mbps LE

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Basic Imaging Profile (BIP)

Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance

Microsoft Windows Bluetooth Software

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.

2. 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® BE201 Wi-Fi 7	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 5.4 non-vPro® WW		IEEE 802.11ac
WLAN ¹		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 802.11k
		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
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• 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 **Direct Sequence Spread Spectrum**

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

Direct Sequence Spread Spectrum, OFDM, QPSK

Security • 802.1x authentication

• AES-CCMP: 128 bit in hardware

• IEEE 802.11i

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

mode only

WAPI

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

WPA2 certification

WPA3 (personal) certification

Network Architecture Models

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming **Output Power** IEEE 802.11 compliant roaming between access points

• 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 ACPI and PCI Express compliant power management

Receiver Sensitivity ² • 802.11b, 1Mbps: -93.5dBm maximum

• 802.11b, 11Mbps: -85dBm maximum

• 802.11a/g, 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

• 802.11ac, MCS9(VHT20) : -88.5dBm maximum

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

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

• 802.11ac, MCS9(VHT160) : -58.5dBm maximum

• 802.11ax, MCS11(HE20)(6GHz) : -59.5dBm maximum

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

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 with CNVi Interface **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 g

2. Type 1216: 0.8 g

Operating Voltage 3.3 v +/- 5 %

Integrated Bluetooth® specifications

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

Frequency Band 2042 to 2480 MHz

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

BLE: 0~39 (2 MHz/CH)

Data Rates and Throughput Legacy: 3 Mbps data rate; throughput up to 2.17 Mbps BLE: 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.



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth® Software

Microsoft Windows Bluetooth Software

Supported Link Topology Certifications

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

328, ETSI 301 893, ETSI 303 687

Bluetooth® Profiles Supported 2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

Bluetooth 4.1 -ESR 5/6/7 Compliance Bluetooth 4.2 ESR08 Compliance

Bluetooth 5.2

Bluetooth 5.3 wireless card Channel Selection Algo

Encryption key size control enhancements

ESR9/10 Compliance FAX Profile (FAX)

Hands Free Profile (HFP) Headset Profile (HSP)

LE Advertisement Extensions LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer LE Link Layer Ping LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Privacy 1.2 –Link Layer Privacy LE Secure Connection- Basic/Full

Limited High Duty Cycle Non-Connectable Advertising

Periodic Advertisement interval Train Nudging & Interlaced Scan Windows Bluetooth profiles support

1. Wi-Fi 7 requires a Wi-Fi 7 router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 7 is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 7 is supported. Wi-Fi 7 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. 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® BE201 Wi-Fi 7	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 5.4 vPro® WW		IEEE 802.11ac
WLAN ¹		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 802.11k
		IEEE 802.11n
		IEEE 802.11r
		IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	• 802.11b/g/n/ax
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		4.9 – 4.95 GHz (Japan)
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		 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	Direct Sequence Spread Spectrum
		1024QAM, 16-QAM, 256-QAM, 4096QAM, 64-QAM, BPSK, CCK,
		Direct Sequence Spread Spectrum, OFDM, QPSK
	Security	 802.1x authentication
		 AES-CCMP: 128 bit in hardware
		1000 000 111



• 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.
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- WPA3 (personal) certification

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Infrastructure (Access Point Required)

IEEE 802.11 compliant roaming between access points

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- 802.11n, MCS7(HT40): +13.5dBm minimum
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- 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
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- 802.11ac, MCS9(VHT40) : -65.5dBm maximum
- 802.11ac, MCS9(VHT80) : -60.5dBm maximum



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802.11ac, MCS9(VHT160): -58.5dBm maximum

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Frequency Band 2042 to 2480 MHz
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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

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Selective Suspend: 17 mW

Bluetooth® Software Supported Link Topology

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HP 5G Sub-6 CAT19 1

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 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 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)

Wireless protocol standards

GPS bands

Maximum data rates

5GNR Air Interface

3GPP Rel15 5G NR sub-6

LTE Rel15

3GPP Release 8 UMTS Specification

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

> GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

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

Maximum output power HSPA+: 23.5 dBm ()

> LTE (all bands except B41): 23.0 dBm (Not support HPUE) NR (all band except n41, n77, n78, n79): 23.0 dBm (Not support

NR n41, n77, n78, n79 HPUE: 26.0 dBm (Support HPUE)

Maximum power consumption 5G Sub 6: 3,500 mA

LTE: 2,500 mA (peak); mA (average)

Form Factor M.2; 3052-S3 Key B Weight 8.6 q (0.303 oz)

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

(Length x Width x Thickness)

embedded eSIM Yes



HP 4G CAT19 ¹

Technology/Operating bands

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Band 48: 3550 to 3700 MHz (UL/DL)

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Wireless protocol standards

LTE Rel15

3GPP Release 8 UMTS Specification Standalone/A-GPS (MS-A, MS-B)

GPS bands

GPS

GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1 (1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)



Maximum data rates UE Category DL 19 (1.6 Gbps Download), UE Category UL 18 (211

Mbps Upload)

Maximum output power LTE (all bands except B41): 23.0 dBm (Not support HPUE)

Maximum power consumptionLTE: 2,500 mA (peak)Form FactorM.2; 3052-S3 Key BWeight8.4 g (0.296 oz)

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

(Length x Width x Thickness)

embedded eSIM Yes

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) 17.00 x 10.00 x 2.00 mm (0.67 x 0.39 x 0.08 inch)

Chipset NPC300 System interface I2C

NFC RF standards ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support 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 ISO/IEC 14443 A

Mode ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

Card Emulation (PICC-VICC)

NFC Modes Supported Reader/Writer, Peer-to-Peer

Raw RF Data Rates 106 kbps, 212 kbps, 424 kbps, 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

I/O Voltage

4.35 to 5.25 Volts 1.8V or 3.3V

Power Consumption

(Booster enable, VBAT = 3.3V,

VCC_BOOST = 5V)

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

Total 288.8 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 (CAT-M1 fSVC) ¹ **Technology/Operating bands**

FDD LTE:

1700/2100 (Band 4), 1700/2100 (Band 66), 1800 (Band 3), 1900 (Band 2), 1900 (Band 25), 2100 (Band 1), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 28), 700 (band 85), 800 (Band 20), 800 (Band 27), 850 (Band 18 lower), 850 (Band

19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8) MHz

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



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

3GPP TS 51.010-1 V10.5.0: Mobile Station (MS) conformance

specification; Part 1: Conformance specification

3GPP TS 51.011 V4.15.0: Specification of the Subscriber Identity

Module - Mobile Equipment (SIM-ME) interface

GPS Standalone GPS/Beidou/GLONASS/A-GPS (XTRA)

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: 151 mA(peak), 16 mA(average)

Form Factor M.2

Weight 4.0 g (0.141 oz)

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

(Length x Width x Thickness)

embedded eSIM Support

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



POWER

Power supply availability may vary by country.

HP 100W Slim USB Type-C® AC

power adapter

Weight (DC Cable Included)

340g ± 10g (Not including power cord. Power cord varies by

country.)

Input 100 ~ 240 Vac

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/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 Over Current Protection 5V/9V/12V/15V<125% max current, 20V<135% max current

AC Inlet Type (

C6 USB type C

DC Cable Connector USB
DC Cable Material PVC

Connector

Connector C6

Environmental Design

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

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

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

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

Worldwide safety standards - IEC60950-1, IEC 62368-1:2014 and

IEC62368-1:2018, EN62368-1:2020+A11, UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC, CU(EAC), KCC(Safety+EMC), NOM-001 NYCE, NRcan, NRCS, ISC, SEC, PSB, Argentina S-mark,

Australia RCM, BIS, BSMI, UAE, UKCA DoC,

Ukraine(CoC+DoC+RoHS+ECO)

HP 65W Standard USB Type-C® AC power adapter Weight (DC Cable Included)

220g ± 10g (Not including power cord. Power cord varies by

country.)



Input 100 ~ 240 Vac

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 Over Current Protection < 8.0A AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material PVC

Connector

Connector C6

Environmental Design

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

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

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 USB Type-C® Gallium Nitride AC power adapter

Weight (DC Cable Included) 105g ± 10g (Not including power cord. Power cord varies by

country.)

Input 100 ~ 240 Vac

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

86.70% min at 115 Vac / 230 Vac @9.00V



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 15V/65W 20V/65W

DC output 5V/9V/15V/20V

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

Output Over Current Protection 115% ~ 125%

AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material PVC

Connector

Connector C6

Environmental Design

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

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

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 Type-C® AC power adapter

Weight (DC Cable Included)

200g ± 10g (Not including power cord. Power cord varies by

country.)

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

Input AC current

Output

47 ~ 63Hz

Max. 1.6 A at 90 Vac



Output power 5V/15W

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

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

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

Output Over Current Protection < 8.0A AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material PVC

Connector

Connector C6

Environmental Design

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

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

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 Standard USB Type-C® Halogen Free AC power adapter Weight (DC Cable Included)

220g ± 10g (Not including power cord. Power cord varies by

country.)

Input 100 ~ 240 Vac

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 Over Current Protection < 8.0A AC Inlet Type C6

DC Cable Connector USB type C
DC Cable Material Halogen Free

Connector

Connector C6

Environmental Design

Operating temperature 0° to 35° C (32° to 95° F) Non-operating (storage) -20° to 85° C (-4° to 185° F)

temperature

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

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

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

HP Long Life 3 cell, 62Whr Polymer Weight Max 236.0 g (0.52 lb)

3 cell Lithium-Ion Polymer cell

Cells/Type **Energy**

Voltage 11.58 V

Amp-hour capacity 5355 mAh / 5086 mAh

Watt-hour capacity 62 Whr

Temperature

Operating (Charging) 0° C ~ 40° C (32° to 104° F)
Operating (Discharging) -10° C ~ 40° C (14° to 104° F)

Optional Travel Battery No

Available



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

AUDIO

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



QuickSpecs

FINGERPRINT READER

Sensor vendorSYNAPTICSSensor typeCapacitiveDPI resolution363 DPI

Scan area 104 x 86 pixels

Operating Temperature $5^{\circ}\text{C} \sim 60^{\circ}\text{C} (41^{\circ}\text{F} \sim 140^{\circ}\text{F})$

Current Consumption Image100 mA maxLow Latency Wait For Finger260 uACapture Rate50 frames/sec

ESD Resistance IEC 61000-4-2 4B (+15KV)

Detection Matrix 363 dpi / 7.4 x 6.0 mm sensor area

Sensor vendorELANSensor typeCapacitiveDPI resolution363 DPIScan area56 x 56 pixelsFalse Rejection Rate< 3%</th>

False Rejection Rate < 3%
False Acceptance Rate < 0.001%
Mobile Voltage Operation 2.8 V ~ 3.6 V

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

Current Consumption Image100 mA maxLow Latency Wait For Finger300 uACapture Rate50 frames/sec

ESD Resistance IEC 61000-4-2 4B (+15KV)

Detection Matrix 363 dpi / 4.0 x 4.0 mm sensor area



PTIONS		
Category	Description	Part Number
Adapters	HP HDMI to VGA Adapter	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio - Earbuds	Poly Voyager Free 60 UC Carbon Black Earbuds +BT700 USB-C	7Y8H4AA
	Adapter +Basic Charge Case - New AMO	
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-A	7Y8L7AA
	Adapter +Basic Charge Case - New AMO	
	Poly Voyager Free 60 UC M Carbon Black Earbuds +BT700 USB-C	7Y8L8AA
	Adapter +Basic Charge Case - New AMO	
	Poly Voyager Free 60/60+ Black Earbuds (2 Pieces) - New AMO	8L649AA,8L5A6A
	Poly Voyager Free 60/60+ Microsoft Teams Certified Black Earbuds	8L5A8AA
	(2 Pieces) - New AMO	
	Poly Voyager Free 60+ UC Carbon Black Earbuds +BT700 USB-C	7Y8G4AA,7Y8H2 <i>I</i>
	Adapter +Touchscreen Charge Case - New AMO	
	Poly Voyager Free 60+ UC M Carbon Black Earbuds +BT700 USB-C	7Y8H0AA
	Adapter +Touchscreen Charge Case - New AMO	
Audio - Headset	Poly Blackwire 3210 Monaural USB-C Headset +USB-C/A Adapter	8X214AA
	Batch 2 - New AMO	
	Poly Blackwire 3215 Monaural USB-C Headset +3.5mm Plug +USB-	8X227AA
	C/A Adapter Batch 2 - New AMO	
	Poly Blackwire 3220 Stereo USB-C Headset +USB-C/A Adapter	93S87AA,8X228 <i>F</i>
	Batch 2 - New AMO	
	Poly Blackwire 3310 Monaural Microsoft Teams Certified USB-C	8X216AA
	Headset +USB-C/A Adapter Batch 2 - New AMO	
	Poly Blackwire 3310 Monaural USB-C Headset +USB-C/A Adapter	8X215AA
	Batch 2 - New AMO	
	Poly Blackwire 3315 Monaural Microsoft Teams Certified USB-C	8X218AA
	Headset +3.5mmPlug+USB-C/AAdapterBatch2 - New AMO	
	Poly Blackwire 3315 Monaural USB-C Headset +3.5mm Plug +USB-	8X217AA
	C/A Adapter Batch 2 - New AMO	
	Poly Blackwire 3320 Stereo Microsoft Teams Certified USB-C	8X220AA
	Headset +USB-C/A Adapter Batch 2 - New AMO	
	Poly Blackwire 3320 Stereo USB-C Headset +USB-C/A Adapter	8X219AA
	Batch 2 - New AMO	
	Poly Blackwire 3325 Stereo Microsoft Teams Certified USB-C	8X222AA
	Headset +3.5mm Plug +USB-C/A Adapter - New AMO	
	Poly Blackwire 3325 Stereo USB-C Headset +3.5mm Plug +USB-	8X221AA
	C/A Adapter Batch 2 - New AMO	



Poly Blackwire 5210 Monaural USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X230AA
Poly Blackwire 5220 Stereo USB-C Headset +3.5mm Plug +USB-C/A Adapter Batch 2 - New AMO	8X231AA,93S88AA
Poly Blackwire 8225 Stereo Microsoft Teams Certified USB-C	8X225AA
Headset +USB-C/A Adapter Batch 2 - New AMO Poly Blackwire 8225 Stereo USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8X223AA
Poly EncorePro 310 Monaural USB-A Headset TAA Batch 1 - New AMO	767G1AA
Poly EncorePro 310 Monoaural with Quick Disconnect Headset TAA Batch 1 - New AMO	77T43AA
Poly EncorePro 310 USB-C Monoaural Headset TAA Batch 1 - New AMO	760Q8AA
Poly EncorePro 320 Stereo USB-A Headset TAA Batch 1 - New AMO	767G0AA
Poly EncorePro 320 Stereo USB-C Headset TAA Batch 1 - New AMO	767F9AA
Poly EncorePro 320 with Quick Disconnect Binaural Headset TAA Batch 1 - New AMO	77T26AA
Poly EncorePro 510 Monaural Headset +Quick Disconnect Batch 1 - New AMO	783Q2AA
Poly EncorePro 515 Microsoft Teams Certified Monoaural with USB-A Headset Batch 1 - New AMO	783R1AA
Poly EncorePro 515 Monoaural with USB-A Headset Batch 1 - New AMO	783R0AA
Poly EncorePro 520 Binaural Headset +Quick Disconnect - New AMO	783P7AA
Poly EncorePro 525 Microsoft Teams Certified Stereo with USB-A Headset Batch 1 - New AMO	783R2AA
Poly EncorePro 525 USB-A Stereo Headset Batch 1 - New AMO	783R3AA
Poly EncorePro 530 Headset +Quick Disconnect Batch 1 - New AMO	783P3AA
Poly EncorePro 540 Convertible Headset +Quick Disconnect Batch 1 - New AMO	783P1AA
Poly EncorePro 715 USB-A Monoaural Headset TAA Batch 1 - New AMO	783N5AA
Poly EncorePro 720 Binaural Headset +Quick Disconnect - New AMO	8R707AA
Poly EncorePro 725 USB-A Stereo Headset TAA Batch 1 - New AMO	783M6AA
Poly EncorePro HW710 Single Ear Headset +Carry Case +Quick Disconnect - New AMO	8R708AA
Poly Savi 7310 Office DECT 1880-1900 MHz Single Ear Headset - New AMO	8D3G3AA
Poly Savi 7310 Office Monaural DECT 1920-1930 MHz Headset Batch 2 - New AMO	7S430AA



Poly Savi 7310 UC Monaural DECT 1880-1900 MHz Headset - New AMO	8L561AA
Poly Savi 7310 UC Monaural DECT 1920-1930 MHz Headset - New AMO	8L570AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1880- 1900 MHz Headset - New AMO	8L575AA
Poly Savi 7310 UC Monaural Microsoft Teams Certified DECT 1920- 1930 MHz Headset - New AMO	8L585AA
Poly Savi 7310-M Office DECT 1880-1900 MHz Single Ear Headset - New AMO	8D3K7AA
Poly Savi 7310-M Office DECT 1920-1930 MHz Single Ear Headset Batch 2 - New AMO	7S439AA
Poly Savi 7320 Office Stereo DECT 1880-1900 MHz Headset - New AMO	8D3F7AA
Poly Savi 7320 Office Stereo DECT 1893-1906 MHz Headset - New AMO	8D3F8AA
Poly Savi 7320 Office Stereo DECT 1910-1920 MHz Headset - New AMO	8D3G0AA
Poly Savi 7320 Office Stereo DECT 1920-1930 MHz Headset Batch 2 - New AMO	7S429AA
Poly Savi 7320 UC Stereo DECT 1880-1900 MHz Headset - New AMO	8L545AA
Poly Savi 7320 UC Stereo DECT 1893-1906 MHz Headset - New AMO	8L546AA
Poly Savi 7320 UC Stereo DECT 1920-1930 MHz Headset - New AMO	8L549AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1880- 1900 MHz Headset - New AMO	8L553AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1893- 1906 MHz Headset - New AMO	8L555AA
Poly Savi 7320 UC Stereo Microsoft Teams Certified DECT 1920- 1930 MHz Headset - New AMO	8L559AA
Poly Savi 7320-M Office Stereo DECT 1880-1900 MHz Headset - New AMO	8D3J6AA
Poly Savi 7320-M Office Stereo DECT 1893-1906 MHz Headset - New AMO	8D3K2AA
Poly Savi 7320-M Office Stereo DECT 1910-1920 MHz Headset - New AMO	8D3K0AA
Poly Savi 7320-M Office Stereo DECT 1920-1930 MHz Headset Batch 2 - New AMO	7S435AA
Poly Savi 7410 Office Monaural DECT 1880-1900 MHz Headset - New AMO	8L589AA
Poly Savi 7410 Office Monaural DECT 1893-1906 MHz Headset - New AMO	8L591AA



Poly Savi 7410 Office Monaural DECT 1920-1930 MHz Headset - New AMO	8L7D5AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO	8L593AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1893-1906 MHz Headset - New AMO	8L594AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1910-1920 MHz Headset - New AMO	8L597AA
Poly Savi 7410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO	8L7D7AA
Poly Savi 7420 Office Stereo DECT 1880-1900 MHz Headset - New AMO	8L560AA
Poly Savi 7420 Office Stereo DECT 1893-1906 MHz Headset - New AMO	8L563AA
Poly Savi 7420 Office Stereo DECT 1910-1920 MHz Headset - New AMO	8L564AA
Poly Savi 7420 Office Stereo DECT 1920-1930 MHz Headset - New AMO Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1880-	8L567AA 8L574AA
1900 MHz Headset - New AMO Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1893-	8L576AA
1906 MHz Headset - New AMO Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1910-	8L579AA
1920 MHz Headset - New AMO Poly Savi 7420 Office Stereo Microsoft Teams Certified DECT 1920-	8L583AA
1930 MHz Headset - New AMO Poly Savi 8210 Office DECT 1880-1900 MHz Single Ear Headset -	8D3K5AA
New AMO Poly Savi 8210 Office DECT 1910-1920 MHz Single Ear Headset -	8D3K6AA
New AMO Poly Savi 8210 Office DECT 1920-1930 MHz Single Ear Headset	7S445AA
TAA Batch 2 - New AMO Poly Savi 8210 UC DECT 1880-1900 MHz USB-A Headset - New	8D3E9AA
AMO Poly Savi 8210 UC DECT 1920-1930 MHz USB-A Headset - New AMO	77T29AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset - New AMO	8D3F1AA
Poly Savi 8210 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset - New AMO	77T31AA
Poly Savi 8210-M Office DECT 1880-1900 MHz Single Ear Headset - New AMO	8D3J8AA
Poly Savi 8210-M Office DECT 1910-1920 MHz Single Ear Headset - New AMO	8D3K1AA



Poly Savi 8210-M Office DECT 1920-1930 MHz Single Ear Headset TAA Batch 2 - New AMO	7S447AA
Poly Savi 8220 Office Stereo DECT 1880-1890 MHz Headset - New AMO	8D3J1AA
Poly Savi 8220 Office Stereo DECT 1880-1900 MHz Headset - New AMO	8D3J2AA
Poly Savi 8220 Office Stereo DECT 1910-1920 MHz Headset - New AMO	8D3J4AA
Poly Savi 8220 Office Stereo DECT 1920-1930 MHz Headset TAA Batch 2 - New AMO	7S4B5AA
Poly Savi 8220 Stereo DECT 1880-1900 MHz Top +Charging Cradle - New AMO	8Y9C4AA
Poly Savi 8220 UC DECT 1880-1900 MHz USB-A Headset - New AMO	8D3F2AA
Poly Savi 8220 UC DECT 1920-1930 MHz USB-A Headset - New AMO	77T33AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset - New AMO	8D3F5AA
Poly Savi 8220 UC Microsoft Teams Certified DECT 1920-1930 MHz USB-A Headset - New AMO	77Y82AA
Poly Savi 8220-M Office Stereo DECT 1880-1900 MHz Headset - New AMO	8D3H8AA
Poly Savi 8220-M Office Stereo DECT 1910-1920 MHz Headset - New AMO	8D3J0AA
Poly Savi 8220-M Office Stereo DECT 1920-1930 MHz Headset TAA Batch 2 - New AMO	7S4B6AA
Poly Savi 8245 DECT 1880-1900 MHz Headset +USB-A to USB-C Cable +D400 - New AMO	8D3H2AA
Poly Savi 8245 Office DECT 1880-1900 MHz USB-A Headset - New AMO	8D3H1AA
Poly Savi 8245 Office DECT 1920-1930 MHz USB-A Headset TAA - New AMO	7W6D1AA
Poly Savi 8245-M Microsoft Teams Certified DECT 1880-1900 MHz USB-A Headset +D200 - New AMO	8D3F4AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1880- 1900 MHz USB-A Headset - New AMO	8D3H7AA
Poly Savi 8245-M Office Microsoft Teams Certified DECT 1920- 1930 MHz USB-A Headset TAA - New AMO	7W069AA
Poly Savi 8410 Office Monaural DECT 1880-1900 MHz Headset - New AMO	8L5A7AA
Poly Savi 8410 Office Monaural DECT 1920-1930 MHz Headset - New AMO	8L7E6AA
Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1880-1900 MHz Headset - New AMO	8L5A9AA



Poly Savi 8410 Office Monaural Microsoft Teams Certified DECT 1920-1930 MHz Headset - New AMO	8L7E9AA
Poly Savi 8420 Office Stereo DECT 1880-1900 MHz Headset - New AMO	8L5B2AA
Poly Savi 8420 Office Stereo DECT 1920-1930 MHz Headset - New AMO	8L7F2AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1880- 1900 MHz Headset - New AMO	8L5B3AA
Poly Savi 8420 Office Stereo Microsoft Teams Certified DECT 1920- 1930 MHz Headset - New AMO	8L7F5AA
Poly Savi 8445 Office DECT 1880-1900 MHz Convertible Headset - New AMO	8L5B4AA
Poly Savi 8445 Office DECT 1920-1930 MHz Convertible Headset - New AMO	8L7F8AA
Poly Savi 8445 Office Microsoft Teams Certified DECT 1880-1900 MHz Convertible Headset - New AMO Poly Savi 8445 Office Microsoft Teams Certified DECT 1920-1930	8L5B6AA 8L7F1AA
MHz Convertible Headset - New AMO Poly Voyager 4310 Microsoft Teams Certified Headset +BT700	77Y93AA
dongle +Charging Stand - New AMO Poly Voyager 4310 Microsoft Teams Certified USB-A Headset	77Y91AA
+BT700 dongle Batch 1 - New AMO Poly Voyager 4310 Microsoft Teams Certified USB-C Headset	77Y95AA
+BT700 dongle Batch 1 - New AMO Poly Voyager 4310 UC Monaural Headset +BT700 USB-A Adapter	77Y92AA
+Charging Stand - New AMO Poly Voyager 4310 USB-A Headset +BT700 dongle Batch 1 - New	76U48AA
AMO Poly Voyager 4310 USB-C Headset +BT700 dongle +Charging	77Y96AA
Stand Batch 1 - New AMO Poly Voyager 4310 USB-C Headset +BT700 dongle Batch 1 - New	77Y94AA
AMO Poly Voyager 4310-M Microsoft Teams Certified USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Y97AA
Poly Voyager 4310-M UC Headset +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO	7Y210AA
Poly Voyager 4320 Microsoft Teams Certified Headset +BT700 dongle +Charging Stand - New AMO	77Z00AA
Poly Voyager 4320 Microsoft Teams Certified USB-A Headset +BT700 dongle Batch 1 - New AMO	77Y98AA
Poly Voyager 4320 Microsoft Teams Certified USB-C Headset +BT700 dongle Batch 1 - New AMO	77Z30AA
Poly Voyager 4320 UC Stereo USB-A Headset +BT700 USB-A Adapter +Charging Stand - New AMO	77Y99AA



Poly Voyager 4320 USB-A Headset +BT700 dongle Batch 1 - New AMO	76U49AA
Poly Voyager 4320 USB-C Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Z31AA
Poly Voyager 4320 USB-C Headset +BT700 dongle Batch 1 - New AMO	76U50AA
Poly Voyager 4320-M +USB-A to USB-C Cable +BT700 dongle Batch 2 - New AMO	7Y211AA
Poly Voyager 4320-M Microsoft Teams Certified Headset +BT700 dongle +Charging Stand Batch 1 - New AMO	77Z32AA
Poly Voyager Focus 2 Microsoft Teams Certified USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO	9T9J6AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter (Tactical 6316) - New AMO	9T9J3AA
Poly Voyager Focus 2 USB-C-C Headset +USB-C/A Adapter +Charging Stand (Tactical 6316) - New AMO	9T9J5AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Black Headset +USB-C/A Adapter - New AMO	9D452AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8H2G3AA,8G7U0AA
Poly Voyager Surround 80 UC Microsoft Teams Certified USB-C Headset +USB-C/A Adapter Demo - New AMO	9C6W5AA
Poly Voyager Surround 80 UC USB-C Headset +USB-C/A Adapter Batch 2 - New AMO	8G7T9AA
Poly Voyager Surround 85 UC Microsoft Teams CertifiedUSB- CHeadset+USB-C/AAdapter+ChargingStandBatch2 - New AMO	8G7T8AA
Poly Voyager Surround 85 UC USB-C Headset +USB-C/A Adapter +Charging Stand Batch 2 - New AMO	8G7T7AA
Poly Sync 10 Microsoft Teams Certified USB-A Speakerphone - New AMO	77P34AA
Poly Sync 10 Speakerphone +USB-A to USB-C Cable Batch 2 - New AMO	7S4M6AA
Poly Sync 10 USB-A USB-C Speakerphone - New AMO	772C3AA
Poly Sync 20 Microsoft Teams Certified USB-A Speakerphone - New AMO	772C8AA
Poly Sync 20 USB-A Speakerphone - New AMO	772D2AA
Poly Sync 20 USB-C Speakerphone Batch 1 - New AMO	7F0J7AA
Poly Sync 20+ Microsoft Teams Certified USB-A Speakerphone Batch 1 - New AMO	772C9AA
Poly Sync 20+ Microsoft Teams Certified USB-C Speakerphone Batch 1 - New AMO	772D1AA
Poly Sync 20+ USB-A Speakerphone Batch 1 - New AMO	772C6AA
Poly Sync 20+ USB-C Speakerphone Batch 1 - New AMO	772D0AA
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Audio - Speaker phone

Poly Sync 20+M Speakerphone +USB-A to USB-C Cable +BT700 dongle +Pouch Batch 2 - New AMO	7Y215AA
Poly Sync 20-M Microsoft Teams Certified USB-C Speakerphone Batch 1 - New AMO	7F0J8AA
Poly Sync 20-M Speakerphone +USB-A to USB-C Cable Batch 2 - New AMO	7S4M1AA
Poly Sync 40 Microsoft Teams Certified USB-A Speakerphone - New AMO	77P35AA
Poly Sync 40 USB-A USB-C BT Speakerphone - New AMO	772C4AA
Poly Sync 40+ Microsoft Teams Certified USB-A USB-C	7723-777 77P36AA
Speakerphone +BT700 USB-A Adapter - New AMO	771 30111
Poly Sync 40+ USB-A USB-C Speakerphone +BT700 USB-A Adapter - New AMO	772C5AA
Poly Sync 60 Microsoft Teams Certified Speakerphone Batch 1 - New AMO	77P41AA
Poly Sync 60 Speakerphone - New AMO	772C2AA
HP 625 Webcam	6Y7L1AA
HP USB-A 325 Webcam	53X27AA,53X27UT
HP 14 Convertible Laptop Backpack Tote	9C2H1AA
HP 14 Modular Laptop Sleeve	9J499AA
HP 15.6 Modular Laptop Backpack	9J496AA
HP 15.6 Modular Laptop Bag	9J497AA
HP 15.6 Modular Laptop Sleeve	9J498AA
HP Campus blue Backpack	7K0E5AA
HP Campus green Backpack	7K0E4AA
HP Campus XL Marble Stone Backpack	7K0E2AA
HP Campus XL Tie Dye Backpack	7K0E3AA
HP Convertible Laptop Stand	9C2H2AA
HP Prelude 15.6 Backpack	1E7D6UT,50P32AA
HP Prelude 15.6 Top Load	1E7D7AA,50P31AA
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	3E2U5UT
HP Renew Business 17.3 Laptop Bag	3E2U6AA
HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
HP Renew Executive 16 Laptop Backpack	6B8Y1AA,6B8Y1UT
HP Renew Executive 16 Laptop Bag	6B8Y2AA
HP Travel 18 Liter 15.6 iron gray Laptop Backpack	6H2D9AA
HP Travel 25 Liter 15.6 iron gray Laptop Backpack	6H2D8AA
HP USB DVD-Writer External ODD	F2B56AA
HP Combination Nano Cable Lock	63B28AA



Commodity

Camera

Cases

	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
Do aldin a		
Docking	HP Thunderbolt™ 120W G4 Dock	4J0A2AA
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4JOG4AA
	HP USB-C™ 120W G5 Dock	5TW10AA
	HP USB-C™/A 120W G2 Universal Dock	5TW13AA
Hub	HP 4K USB-C Multiport Hub	6G843AA,6G843UT
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55UT
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA,86S97UT
Keyboard	HP 125 Wired Keyboard	266C9AA
	HP 320K USB Wired Keyboard	9SR37AA,9SR37UT
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA,7N7C1UT
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA,7N7B9UT
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 685 Comfort Dual-Mode Keyboard	8T6L9UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard	9T5B2AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+Bluetooth Wireless Keyboard	3Z726AA
Keyboard & Mouse Combo	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 225 Wired Mouse and Keyboard Combo White	86J24AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA, 4R009UT
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7UT
	HP 725 Multi-Device Rechargeable Wireless Keyboard and Mouse	9T5B0UT
	Combo	
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA,9SR36UT
Mouse	HP 105 Mouse Pad	8X595AA
	HP 125 Wired Mouse	265A9UT
	HP 128 Laser Wired Mouse	265D9AA
	HP 205 Desk Mat	8X597AA
	HP 320M Wired Mouse	9VA80AA
	HP 685 Comfort Dual-Mode Mouse	8T6M0UT
	HP 695 Qi-Charging Wireless Mouse	8F1Y4AA
	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
Pen	HP 705 Rechargeable Multi Pen	93Z28AA
	HP Active Rechargeable AES 2 G3 Pen	6SG43AA



HP EliteBook 8 Flip G1i 13 inch Notebook AI PC

Assy Pen HP Garaged AES P18926-001

Power HP 110W USB-C Laptop Charger 8B3Y2AA, 8B3Y2UT

HP 65W LC USB-C AC power adapter 1P3K6AA

HP 65W GaN USB-C Laptop Charger 600Q8UT

HP 65W USB-C Laptop Charger 671R3AA, 671R3UT



QuickSpecs

CHANGELOG

Date of change	Version History		Description of change
April 1, 2025	V1 to V2	Added	Battery Life
		Updated	Overview and Ports Section
April 7, 2025	V2 to V3	Added	Environmental Section
May 8, 2025	V3 to V4	Added	Pen Section

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