Overview

HP Elite c640 14 inch G3 Chromebook



Left

- **1.** Microphones enhanced by AI Noise Reduction (2)
- 2. HP Privacy Camera Shutter
- 3. 5MP camera
- 4. Webcam LED
- 5. Glass Clickpad
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt[™] 4.

- 6. Smart Card Reader (Smart card is not included) (Optional)
- 7. MicroSD memory card reader (Memory card is not included.)
- 8. Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- Super Speed USB Type-A 5Gbps signaling rate (Charging) (USB 3.2 Gen 1)
- 10. HDMI port (Cable not included.)



Overview



Right

- 1. Power Button
- 2. Headphone/Microphone Combo Jack
- 3. Super Speed USB Type-A 5Gbps signaling rate (Charging) (USB 3.2 Gen1)
- **4.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt[™] 4.
- 5. Nano Lock Slot (Lock sold separately)
- 6. SIM card slot (WWAN sku only)
- 7. Fingerprint Sensor (Optional)



Overview

AT A GLANCE

- Bring exceptional clarity and contrast to your images, even in low light environments with the 5MP camera
- Help speed up demanding business applications with the latest Intel[®] processor.
- Coupled with up to 16GB memory and 512GB SSD storage.
- Keep up with the demands of your business with enhanced security supported total memory encryption, long battery life with optional Intel[®] vPro[®] technology.
- Seamlessly connect and charge your Chromebook and USB-C[®] accessories with two Thunderbolt[™] USB-C[®] ports.
- With AI-based noise reduction and HP speakers, custom-tuned in collaboration with experts at B&O, get an enhanced audio and video conferencing experience.
- Attain fast and secure authentication in Chrome or virtualized computing environment with an optional smart card reader and fingerprint sensor.
- Get peace of mind with a built-in HP Privacy Camera that blocks the lens of your camera.
- Instantly block prying eyes by making your screen appear unreadable from the side with HP Sure View Reflect.
- 4G LTE delivers fast data uploads and transfers, while Wi-Fi 6E and Bluetooth[®] connectivity provide speed and stability on crowded networks.

NOTE: See important legal disclosures for all listed specs in their respective features sections.

PRODUCT NAME

HP Elite c640 14 inch G3 Chromebook

OPERATING SYSTEM

Preinstalled Chrome OS

PROCESSORS

Processor 1,2,3,4	Cores	Number of	Number of	Threads	L3 Cache		Furbo Jency		ise Jency	Intel SIPP/vPro®
		P-cores	E-cores			P-	E-	P-	E-	Enterprise
						cores	cores	cores	cores	
Intel [®] Core™	10	2	8	12	12MB	4.8	3.6	1.8 GHz	1.3 GHz	Х
i7-1265U						GHz	GHz			
Intel [®] Core™	10	2	8	12	12MB	4.4	3.3	1.2 GHz	1.2 GHz	Х
i5-1245U						GHz	GHz			
Intel [®] Core™	10	2	8	12	12MB	4.4	3.3	1.3 GHz	0.9 GHz	
i5-1235U						GHz	GHz			
Intel [®] Core™	6	2	4	8	10MB	4.4	3.3	1.2 GHz	0.9 GHz	
i3-1215U						GHz	GHz			
Intel®	5	1	4	6	8MB	4.4	3.3	1.2 GHz	0.9 GHz	
Pentium®						GHz	GHz			
Gold 8505										
Intel®	5	1	4	6	8MB	N/A	N/A	1.1 GHz	0.9 GHz	
Celeron [®] 7305										

1. 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.

Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.
 Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost for more information.

4. Intel vPro[®] requires Chrome OS R99 or after, a vPro supported processor, vPro enabled wired LAN and/or WLAN card, Wi-Fi 6E and H1 Security Chip are required. Some functionality requires additional 3rd party software in order to run. Features of vPro[®] Essentials and Enterprise vary. See http://intel.com/vpro

CHIPSET

Chipset is integrated with processor



GRAPHICS

Integrated

Intel[®] Iris[®] X^e Graphics ^{5,6} Intel[®] UHD Graphics ⁵

Supports

Support HD Decode, DX12, and HDMI 2.0 ⁵

5. HD content required to view HD images.

6. Intel[®] Iris[®] X^e Graphics capabilities require system to be configured with Intel[®] Core[™] i5 or i7 processors and dual channel memory. Intel[®] Iris[®] X^e Graphics with Intel[®] Core[™] i5 or 7 processors and single channel memory will only function as UHD graphics.

DISPLAY

Non-Touch

35.6 cm (14") diagonal FHD (1920 x 1080) HP Sure View Reflect, UWVA anti-glare, micro-edge, eDP1.3+PSR, Low Blue Light, 1000 nits, 72% NTSC with HP Eye Ease ^{5,7,8,9,10}

35.6 cm (14") diagonal FHD IPS anti-glare micro-edge WLED-backlit, eDP1.2, narrow bezel bent, 250 nits, 45% NTSC (1920 x 1080) ^{5,7,8,9}

35.6 cm (14") diagonal FHD IPS anti-glare micro-edge WLED-backlit, Low Power, eDP1.3+PSR , narrow bezel bent, 400 nits, 72% NTSC (1920 x 1080) ^{5,7,8,9}

35.6 cm (14") diagonal HD SVA anti-glare micro-edge WLED-backlit, eDP1.2, narrow bezel bent, 250 nits, 45% NTSC (1366 x 768) ^{5,7,8,9}

Touch

35.6 cm (14") diagonal FHD (1920 x 1080), IPS, anti-glare, touch on panel micro-edge WLED-backlit touch screen, eDP1.2 w/o PSR bent, 250 nits, 45% NTSC ^{5,7,8,9,10}

Displays Support

Support 3 external displays up to 4K resolution.

Size (Diagonal)

14" 35.6 cm

5. HD content required to view HD images.

7. Sold separately or as an optional feature.

8. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

9. HP Sure View Reflect integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

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

DOCKING (Sold Separately)



Docking station model #1 Docking station model #2 HP USB-C Dock G5 HP USB-C/A Universal Dock G2

For additional aftermarket options and docking specs please see page 34.

STORAGE AND DRIVES

Primary Storage 64GB eMMC

Primary M.2 Storage

512 GB 2280 PCIe[®] NVMe[™] M.2 SSD ¹¹ 256 GB 2230 PCIe[®] NVMe[™] M.2 SSD ¹¹ 128 GB 2230 PCIe[®] NVMe[™] M.2 SSD ¹¹

11. For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. For 64GB drive, 5.76GB is not user accessible. For 128GB drive, 8.76GB is not user accessible. For 256GB drive, 17.53GB is not user accessible. For 512GB drive, 48.64GB is not user accessible.

MEMORY

Maximum Memory 16 GB DDR4-4266 MT/s SDRAM

Memory

16 GB LPDDR4X-4266 MT/s SDRAM 8 GB LPDDR4X-4266 MT/s SDRAM

Memory Slots

On-board system memory Supports Dual Channel Memory



NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 Wi-Fi 6E Bluetooth® 5.2 WLAN ¹² Intel® AX211 Wi-Fi 6E Bluetooth® 5.2 vPro WLAN ¹² MU-MIMO supported HP Extended Range WLAN supported

WWAN

Intel® XMM 7360 LTE-Advanced (Cat 9)¹³

Miracast

Chromecast Support 14

12. 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.

13. 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. 14. Chromecast must be purchased separately.

AUDIO/MULTIMEDIA

Audio

Audio by Bang & Olufsen Dual stereo speakers Dual microphone enhanced by AI noise reduction.

Speaker Power

2Watt / 40hms

Camera

5 MP camera HP Privacy Camera



Technical Specifications

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

Full- size island-style 3 coat paint backlit keyboard Full- size island-style 3 coat paint standard keyboard

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

- esc ESC key
- ← Go to the previous page
- **C** Refresh your current page
- **11** Make your page take up the full screen
- Show all open windows
- Take a screenshot
- Decrease screen brightness
- Increase screen brightness
- [for SureView sku]: Turn on SureView
- Ifor SureView sku]: Keyboard backlight on/off
- ▶ I [for non-SureView sku]: Play/pause
- 🗞 🛛 Global microphone mute/unmute
- No. Turn off the sound
- Lower the volume
- Raise the volume
- ල Power button



SOFTWARE AND SECURITY

Chromebook Plus features

This device qualifies for an OS update to include enhanced features found on Chromebook Plus devices.¹⁵ Minimum hardware requirements of Chromebook Plus features:

- CPU: Intel Core i3 12th Gen or above, or AMD Ryzen 3 5000 series or above
- RAM: 8GB+
- Storage: 128GB+
- Web camera: 1080p+ with Temporal Noise Reduction
- Display: Full HD IPS or better display

Preinstalled Software

HP QuickDrop ¹⁶

Manageability Features

Zero Touch Enrollment ¹⁷ Chrome Enterprise Upgrade ¹⁸ Chrome Education Upgrade ¹⁹

NOTE: To enhance brightness, level go to the Intel[®] Graphics Command Center app, click on System and turn off the Display Power Savings function.

Security Management

Titan C security chip Nano lock slot ²⁰ Fingerprint Sensor (Optional)

Smartcard Reader

Model number: Alcor AU9560 FIPS 201 Compliant: No

IPv6 Support

No

FirstNet Certified No

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?: No

15. ChromeOS update may be required.

16. HP Quick Drop requires Internet access and Chrome OS device preinstalled with HP QuickDrop app and either an Android device (phone or tablet) running Android 7 or higher with the Android HP QuickDrop app, and /or an iOS device (phone or tablet) running iOS 12 or higher with the iOS HP QuickDrop app.

17. ZTE requires separately purchased HP Get More Service. 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.

18. Chrome Enterprise Upgrade requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see https://support.google.com/a/topic/1409901.



Chrome Education Upgrade requires one-time setup, subscription, Google Admin Console, and your organization's domain. Please see https://support.google.com/a/answer/60216https://support.google.com/a/answer/60216.
 Sold separately.

Technical Specifications

POWER

Power Supply

AC Adapter 65 Watt nPFC Standard USB type C Straight ²¹ AC Adapter 45 Watt nPFC Standard USB type C Straight ²¹

Battery

HP Long Life 3-cell, 58 Wh Polymer ^{22,23} Support HP Fast Charge Technology (90 mins to 90%) ²⁴

Power Cord

3-wire plug - 1m

Battery Life

Up to 10 hours 45 minutes (Intel i7-1265U/16GB/128GB SSD/FHD touch screen) ²⁵

Battery Weight

227.75g

21. Availability may vary by country.

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

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

24. Recharges up to 90% within 90 minutes when the system is off or in standby mode when used with the power adapter provided with the notebook. After charging has reached 90% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.

25. Testing conducted by HP using Google Chrome OS power_LoadTest. Battery life will vary and the maximum capacity of the battery will naturally decrease with time and usage and battery optimization activation. See http://www.chromium.org/chromium-os/testing/power-testing for test details.

WEIGHTS & DIMENSIONS

Product Weight ²⁶ Starting at 3.4 lb Starting at 1.54 kg

Product Dimensions (W x D x H)

12.71 x 8.7 x 0.77 in 32.3 x 22.1 x 1.98 cm

26. Weight will vary by configuration. Does not include power adapter.



PORTS/SLOTS

2 Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4) ²⁷ 2 Super Speed USB Type-A 5Gbps signaling rate (Charging) (USB 3.2 Gen1)

1 HDMI-in ²⁸

Expansion Slots

1 MicroSD memory card reader ²⁹

27. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

28. HDMI cable sold separately.

29. MicroSD card Sold separately.



SERVICE AND SUPPORT

HP Services offers 1-year or 3-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc. ³⁰

30. 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

STSTEP UNT	
Stand-Alone Power Requirements (AC Power)	USB-C 45W and 65W adapter
Nominal Operating Voltage	5V/9V/12V/15V
Average Operating Power	< 45W
Integrated graphics	Yes
Discrete Graphics	N/A
Max Operating Power	UMA < 45W
Temperature	
Operating	32° to 95° F (0° to 35° C)
Non-operating	41° to 95° F (5° to 35° C)
Relative Humidity	
Operating	10% to 90%
Non-operating	5% to 95%
Shock	
Operating	40 G, 2 ms, half-sine
Non-operating	240 G, 2 ms, half-sine
Random Vibration	
Operating	1.043 grams
Non-operating	3.5 grams
Altitude (unpressurized)	
Operating	-50 to 10,000 ft (-15 to 3,048 m)
Non-operating	-50 to 40,000 ft (-15 to 12,192 m)
Planned Industry Standard Certifications	
Regulatory Model Number	TPN-Q276
UL	Yes
CSA	No
FCC Compliance	Yes
ENERGY STAR [®] 8.0	Yes ³¹
EPEAT [®]	Yes, EPEAT [®] Gold in United States ³²
TCO certified	Yes
ICES	Yes
Australia / NZ A-Tick Compliance	Yes
CCC	Yes
Japan VCCI Compliance	Yes
КС	Yes
BSMI	Yes
CE Marking Compliance	Yes
BNCI or BELUS	No
CIT	No
EAC Certificate	Yes
GOST	Yes (EAC)
Saudi Arabian Compliance (ICCP)	Yes
SABS	
	Yes
	No
31. Configurations of the HP Elite c640 G3 Chrome	book that are ENERGY STAR [®] gualified are identified as

31. Configurations of the HP Elite c640 G3 Chromebook that are ENERGY STAR[®] qualified are identified as HP Elite c640 G3 Chromebook ENERGY STAR on HP websites and on http://www.energystar.gov.
32. Based on US EPEAT[®] registration according to IEEE 1680.1-2018 EPEAT[®]. EPEAT[®] status varies by country. Visit

http://www.epeat.net for more information.



DISPLAYS

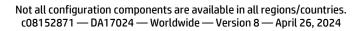
NOTE: Actual brightness will be lower with touchscreen or sure view.

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

Panel LCD 14 inch FHD	Outline Dimensions (W x H x D)	316.170 x 186.400 max.
(1920x1080) Anti-Glare WLED	Active Area	310.170 x 186.400 max. 309.37 x 174.02
UWVA 45percent cg 250nits eDP		
1.2 w/o PSR bent Touch on Panel	Weight Diagonal Size	<305g max. 14"
NWBZ	Thickness	3.0mm/ 5.0mm (w/PCB) max.
	Interface	eDP 1.2 (2lane)
	Surface Treatment	Anti-Glare
	Touch Enabled	Yes ¹
	Contrast Ratio	600:1 (typ)
	Refresh Rate	60Hz
	Brightness	250 nits ¹
	Pixel Resolution - Format	
		1920 x 1080 (FHD)
	Backlight Bivel Becolution	WLED
	Pixel Resolution	
	Color Gamut Coverage	NTSC 45%
	Color Depth	6bits
	Viewing Angle	UWVA 85/85/85
	Low Blue Light	
	Power Consumption (W, EBL@ 150nits max/ 200nits max)	2.7W max./3.1W max.
	1 Sunts max/ 200mts max/	
Panel LCD 14-in FHD	Outline Dimensions (W x H x D)	316.170 x 186.400 max
(1920x1080) Anti-Glare WLED	Outline Dimensions (W x H x D) Active Area	316.170 x 186.400 max 309.37 x 174.02
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	····· · · · · · ·	
(1920x1080) Anti-Glare WLED	Active Area	309.37 x 174.02
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight	309.37 x 174.02 300g
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size	309.37 x 174.02 300g 14"
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max.
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane)
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ)
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits 1920 x 1080 (FHD)
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format Backlight	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits 1920 x 1080 (FHD) WLED
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format Backlight Pixel Resolution	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits 1920 x 1080 (FHD) WLED RGB
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format Backlight Pixel Resolution Color Gamut Coverage	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits 1920 x 1080 (FHD) WLED RGB NTSC 45%
(1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP	Active Area Weight Diagonal Size Thickness Interface Surface Treatment Touch Enabled Contrast Ratio Refresh Rate Brightness Pixel Resolution - Format Backlight Pixel Resolution Color Gamut Coverage Color Depth	309.37 x 174.02 300g 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (2lane) Anti-Glare No 600:1 (typ) 60Hz 250nits 1920 x 1080 (FHD) WLED RGB NTSC 45% 6bits

Technical Specifications

Anti-Glare WLED SVA 45percent cg 250nits eDP 1.2 w/o PSR NWBZ bent Dia Thi Inte Sur Tou Cor Ref Bri Pix Bac Pix Col Col Col Col Col Col Col Col Col Col	tline Dimensions (W x H x D) tive Area sight agonal Size ickness erface rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness tel Resolution - Format	316.110x186.370mm(max) 309.4 x 173.95 300g Max 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (1 lane) Anti-Glare No 300:1 (typ) 60Hz
cg 250nits eDP 1.2 w/o PSR We NWBZ bent Dia Thi Intr Sur Tor Cor Ref Brig Pix Bac Pix Col Vie Lov Pot 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	right agonal Size ickness erface rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness	300g Max 14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (1 lane) Anti-Glare No 300:1 (typ) 60Hz
NWBZ bent Dia Thi Intr Sur To Cor Ref Bri Pix Bac Pix Bac Pix Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out	agonal Size ickness erface rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness	14" 3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (1 lane) Anti-Glare No 300:1 (typ) 60Hz
Thi Thi Int Sur To Cor Ref Brig Pix Bac Pix Bac Pix Col Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	ickness erface rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness	3.0mm/ 5.0mm (w/PCB) max. eDP 1.2 (1 lane) Anti-Glare No 300:1 (typ) 60Hz
Int Sur Tou Cor Ref Brig Pix Bac Pix Bac Pix Col Col Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	erface rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness	eDP 1.2 (1 lane) Anti-Glare No 300:1 (typ) 60Hz
Sur Tou Cor Ref Bri Pix Bac Pix Bac Pix Col Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light	rface Treatment uch Enabled ntrast Ratio fresh Rate ghtness	Anti-Glare No 300:1 (typ) 60Hz
Tou Cor Ref Brig Pix Bac Pix Col Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	uch Enabled ntrast Ratio fresh Rate ghtness	No 300:1 (typ) 60Hz
Cor Ref Brig Pix Bac Pix Col Col Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	ntrast Ratio fresh Rate ghtness	300:1 (typ) 60Hz
Ref Bri Pix Bac Pix Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	fresh Rate ghtness	60Hz
Brig Pix Bac Pix Col Col Col Vie Lov Pox 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	ghtness	
Pix Bac Pix Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	-	
Bac Pix Col Col Vie Lov Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	el Resolution - Format	250nits
Pix Col Col Vie Lov Pou 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act		1366 x 768 (HD)
Col Col Vie Lov Por 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	cklight	WLED
Col Vie Lov Pou 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	el Resolution	RGB
Vie Lov Por 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	lor Gamut Coverage	NTSC 45%
Lov Pov 15(14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	lor Depth	6 bits
Pov 150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	ewing Angle	SVA 45/45/15/30
150 14.0 in FHD (1920 x 1080) Out Anti-Glare UWVA Low Blue Light Act	w Blue Light	No
Anti-Glare UWVA Low Blue Light Act	wer Consumption (W, EBL@ Onits max/ 200nits max)	2.52W max/2.86W max
	tline Dimensions (W x H x D)	314.612 x 184.900 (max)
	tive Area	309.312 x 173.990 (typ.)
	ight	230 g (max)
100 PrivacyG4 Plus bent LCD Dia	ngonal Size	14 (inch)
Panel Thi	ickness	2.2mm / 3.9mm (w/PCB) (max)
Inte	erface	eDP1.4
Sur	rface Treatment	Bright View
Τοι	uch Enabled	No
Cor	ntrast Ratio	1500:1 (typical)
Ref	fresh Rate	60Hz
Brig	ghtness	1000 nits
Pix	el Resolution - Format	1920 x 1080 (FHD)
Bac	cklight	WLED
	el Resolution	RGB
Col	lor Gamut Coverage	sRGB 100%
	lor Depth	8
	ewing Angle	UWVA 85/85/85/85



Yes

Low Blue Light

(III)

Technical Specifications

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

1.6 (max)/2.0(max)

Panel LCD 14 inch FHD	Outline Dimensions (W x H x D)	315.370 x 186.900 (max)
(1920x1080) Anti-Glare WLED	Active Area	309.370 x 174.020 mm (typ.)
UWVA sRGB 100percent cg	Weight	200 g (max)
400nits eDP 1.4+PSR2 bent LP	Diagonal Size	14.0 (inch)
NB2X	Thickness	2.0 mm / 4.0 mm (w/PCB) (max)
	Interface	eDP1.4 (4 lane)
	Surface Treatment	Anti-Glare
	Touch Enabled	No
	Contrast Ratio	1200:1 (typical)
	Refresh Rate	60Hz
	Brightness	400 nits
	Pixel Resolution - Format	1920 x 1080 (FHD)
	Backlight	WLED
	Pixel Resolution	RGB
	Color Gamut Coverage	sRGB 100% (NTSC 72%)
	Color Depth	6+2 FRC
	Viewing Angle	UWVA 85/85/85/85

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

No

1.04 (max)/ 1.25 (max)

Low Blue Light



STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. Actual formatted capacity is less. For 64GB drive, 5.76GB is not user accessible. For 128GB drive, 8.76GB is not user accessible. For 256GB drive, 17.53GB is not user accessible. For 512GB drive, 48.64GB is not user accessible.

64 GB eMMC	Form Factor	eMMC
	Capacity	64GB
	NAND Type	MLC/TLC
	Height	1.4mm
	Width	11.5x13mm
	Weight	0.2g
	Interface	MMC protocal
	Maximum Sequential Read	Up to 250MB/s
	Maximum Sequential Write	Up to 70MB/s
	Logical Blocks	64GB (62,537,072,640 Bytes)
	Operating Temperature	64GB (62,537,072,640 Bytes)
	Features	HS400
SSD 128GB 2230 PCIe NVMe Value	Form Factor	M.2 2230
(SSD 128GB 2230 PCIe NVMe	Capacity	128GB
Value)	NAND Type	Value
		0.09 in (2.3 mm)
	Height Width	
		0.87 in (22 mm)
	Weight	0.01 lb (6 g) ~ 0.02 lb (10 g)
	Interface Maximum Sequential Boad	NVMe
	Maximum Sequential Read	3000 Up to MB/s
	Maximum Sequential Write	1400 Up to MB/s
	Logical Blocks	250,069,680
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	Pyrite
SSD 256GB 2230 PCIe NVMe Value	Form Factor	M.2 2230
(256GB 2230 PCIe NVMe Value 2nd Solid State Drive)	Capacity	256GB
	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	NVMe
	Maximum Sequential Read	3000 Up to MB/s
	Maximum Sequential Write	1800 Up to MB/s
	Logical Blocks	500,118,192
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	Pyrite

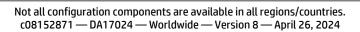


SSD 512GB 2280 PCIe NVMe Value	Form Factor	M.2 2280
(512GB 2280 PCIe NVMe Value	Capacity	512GB
2nd Solid State Drive)	NAND Type	Value
	Height	0.09 in (2.3 mm)
	Width	0.87 in (22 mm)
	Interface	NVMe
	Maximum Sequential Read	3200 Up to MB/s
	Maximum Sequential Write	2700 Up to MB/s
	Logical Blocks	1,000,215,216
	Operating Temperature	32° to 158°F (0° to 70°C) [ambient temp]
	Features	Pyrite



NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E + Bluetooth® 5.2 M.2 160MHz CNVi World-wide WLAN vPro ¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz
	Data Rates	 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: max 300Mbps 802.11ac : 1733Mbps 802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security ³	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 certification IEEE 802.11i WAPI
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power ²	• 802.11b : +17dBm minimum • 802.11g : +16dBm minimum





		_	
	 802.11a: +17d 802.11n HT20 	IBm minimum '2.4GHz) : +14dBm minimum	
		(2.4GHz) : +14dBm minimum	
		SGHz) : +14dBm minimum	
		(5GHz) : +13dBm minimum	
	• 802.11ac VHT8	30(5GHz) : +10dBm minimum	
	• 802.11ac VHT1	60(5GHz) : +10dBm minimum	
	• 802.11ax HE40)(2.4GHz) : +12dBm minimum	
)(5GHz) : +10dBm minimum	
	• 802.11ax HE16	50(5GHz) : +10dBm minimum	
Power Consumption	Transmit mode		
	Receive mode		
) 180 mW (WLAN Associated)	
	 Idle mode 50 m Connected Stal 	nW (WLAN unassociated)	
	Radio disabled	-	
Power Management		oress compliant power management	
i onci i lanagement		nt power saving mode	
Receiver Sensitivity ⁴	•802.11b, 1Mbp	s : -93.5dBm maximum	
-	•802.11b, 11Mb	ps : -84dBm maximum	
	• 802.11a/g, 6M	bps : -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 		
		9(VHT160) : -58.5dBm maximum	
		11(HE40): -57dBm maximum	
		11(HE80): -54dBm maximum	
		11(HE160): -53.5dBm maximum	
Antenna type High efficiency antenna with spatial diversity		ntenna with spatial diversity, mounted in the display	
	enclosure		
		dual band 2.4/5 GHz antennas are provided to the card to	
		IIMO communications and Bluetooth communications	
Form Factor	PCI-Express M.2		
Dimensions		3 x 22.0 x 30.0 mm	
M	2. Type 1216: 1.67 x 12.0 x 16.0 mm		
Weight	1. Type 2230 : 2.8g 2. Type 1216: 1.3g		
Operating Voltage	2. Type 1216. 1.3g 3.3v +/- 9%		
Temperature	Operating 14° to 158° F (–10° to 70° C)		
Temperature	Non-operating	-40° to 176° F (-40° to 80° C)	
Humidity	Operating	10% to 90% (non-condensing)	
,	Non-operating	5% to 95% (non-condensing)	
Altitude	Operating	0 to 10,000 ft (3,048 m)	
	. J Non-operating	0 to 50,000 ft (15,240 m)	
LED Activity LED Amber – Radio OFF; LED Off – R			
		· · · · · · · · · · · · · · · · · · ·	



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

Bluetooth Specification Frequency Band Number of Available Channels	4.0/4.1/4.2/5.0/5.1/5.2 Compliant 2402 to 2480 MHz 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 + 9.5 dBm for BR and EDR.

 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.
 The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

3. Check latest software/driver release for updates on supported security features.

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Intel® AX211 Wi-Fi 6E + Bluetooth® 5.2 M.2 160MHz CNVi World-wide WLAN non-vPro ¹	Wireless LAN Standards	IEEE 802.11a IEEE 802.11b IEEE 802.11g IEEE 802.11n IEEE 802.11ac IEEE 802.11ax IEEE 802.11d IEEE 802.11e IEEE 802.11h IEEE 802.11i IEEE 802.11k IEEE 802.11r IEEE 802.11v
	Interoperability	Wi-Fi certified
	Frequency Band	•802.11b/g/n/ax 2.402 – 2.482 GHz •802.11a/n/ac/ax 4.9 – 4.95 GHz (Japan) 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz
	Data Rates	 802.11b: 1, 2, 5.5, 11 Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: max 300Mbps 802.11ac : 1733Mbps 802.11ax : max 2.4Gbps
	Modulation	Direct Sequence Spread Spectrum OFDM, BPSK, QPSK, CCK, 16-QAM, 64-QAM, 256-QAM, 1024QAM
	Security ³	 IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 certification IEEE 802.11i WAPI
	Network Architecture Models	Ad-hoc (Peer to Peer) Infrastructure (Access Point Required)
	Roaming	IEEE 802.11 compliant roaming between access points
	Output Power ²	 802.11b : +17dBm minimum 802.11g : +16dBm minimum 802.11a : +17dBm minimum



Technical Specifications

		 802.11n HT40(2 802.11n HT20(9 802.11n HT40(9 802.11ac VHT89 802.11ac VHT19 802.11ac HE40 802.11ax HE40 	2.4GHz) : +14dBm minimum 2.4GHz) : +13dBm minimum 5GHz) : +14dBm minimum 5GHz) : +13dBm minimum 0(5GHz) : +10dBm minimum 60(5GHz) : +10dBm minimum (2.4GHz) : +12dBm minimum (5GHz) : +10dBm minimum 0(5GHz) : +10dBm minimum	
	Power Consumption		.6 W 180 mW (WLAN Associated) W (WLAN unassociated) Idby 10mW	
	Power Management	ACPI and PCI Express compliant power management 802.11 compliant power saving mode		
	Receiver Sensitivity ⁴ Antenna type	 802.11b, 11Mbj 802.11a/g, 6Mb 802.11a/g, 54M 802.11n, MCS07 802.11n, MCS17 802.11ac, MCS17 802.11ac, MCS17 802.11ax, MCS17 	5 : -93.5dBm maximum ps : -84dBm maximum pps : -86dBm maximum lbps : -72dBm maximum 7 : -67dBm maximum 5 : -64dBm maximum 0(VHT80) : -84dBm maximum 0(VHT80) : -59dBm maximum 0(VHT160) : -59dBm maximum 11(HE40): -57dBm maximum 11(HE40): -57dBm maximum 11(HE160): -53.5dBm maximum ntenna with spatial diversity, mounted in the display	
			ual band 2.4/5 GHz antennas are provided to the card to MO communications and Bluetooth communications	
	Form Factor	PCI-Express M.2	MiniCard	
	Dimensions		3 x 22.0 x 30.0 mm 57 x 12.0 x 16.0 mm	
	Weight	1. Type 2230 : 2.8g 2. Type 1216: 1.3g		
	Operating Voltage	3.3v +/- 9%		
	Temperature	Operating Non-operating	14° to 158° F (–10° to 70° C) –40° to 176° F (–40° to 80° C)	
	Humidity	Operating Non-operating	10% to 90% (non-condensing) 5% to 95% (non-condensing)	
	Altitude	Operating	0 to 10,000 ft (3,048 m)	
		Non-operating	0 to 50,000 ft (15,240 m)	
		• •		
	LED Activity		lio OFF; LED Off – Radio ON	
.:+!	th Rivetooth 4 0/4 1/4 2/5 0/5 1/5 2 Wireless Technology			

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



Bluetooth Specification Frequency Band Number of Available Channels	4.0/4.1/4.2/5.0/5.1/5.2 Compliant 2402 to 2480 MHz Legacy : 0~79 (1 MHz/CH) BLE : 0~39 (2 MHz/CH)
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Transmit Power	The Bluetooth component shall operate as a Class II Bluetooth device with a maximum transmit power of + 9.5 dBm for BR and EDR.

 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.
 The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.

3. Check latest software/driver release for updates on supported security features.

4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



Intel® XMM™ 7360 LTE- Advanced CAT9¹	Technology/Operating bands	FDD LTE: 2100 (Band 1), 1900 (Band 2), 1800 (Band 3), 1700/2100 (Band 4), 850 (Band 5), 2600 (Band 7), 900 (Band 8), 1400 (Band 11), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 17 lower), 850 (Band 18 lower), 850 (Band 19 upper), 800 (Band 20), 1400 (Band 21), 850 (Band 26), 700 (Band 28), 700 (Band 29 RX only), 2300 (Band 30), 1700/2100 (Band 66). TDD LTE: 2600 (Band 38), 1900 (Band 39), 2400 (Band 40), 2500 (Band 41). HSPA+: 2100 (Band 1), 1900 (Band 2), 1700/2100 (Band 4), 850 (Band 5), 900 (Band 8) MHz
	Wireless protocol standards	3GPP Release 11 LTE Specification CAT.9, DL 60MHz BW throughput up to 450Mbps; UL 20MHz throughput up to 50Mbps WCDMA R99, 3GPP Release 5, 6, 7 and 8 UMTS Specification
	Maximum data rates	LTE: 450 Mbps (Download), 50 Mbps (Upload) DC-HSPA+: 42 Mbps (Download), 5.76 Mbps (Upload) HSPA+: 21Mbps (Download), 5.76 Mbps (Upload)
	Maximum output power	LTE: 23 dBm HSPA+: 23.5 dBm
	Maximum power consumption	LTE: 1,200 mA (peak); 900 mA (average) HSPA+: 1,100 mA (peak); 800 mA (average)
	Form Factor	M.2, 3042-S3 Key B
	Weight	5.8 g
	Dimensions (Length x Width x Thickness)	42 x 30 x 2.3 mm

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.



POWER

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

45 W AC adapter	Dimensions	3.74 x 1.69 x 1.08in (9.5 x 4.3 x 2.75 cm)
	Weight	200g +/-10%
	Input	100 to 240 VAC
	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5% 9V : 86.7% 12V : 87.41% 15V : 87.8%
	Input frequency range	47 ~ 63Hz
	Input AC current	Max. 1.4 A at 90 Vac
	Output	
	Output power	45W
	DC output	5V/15W 9V/27W 12V/36W 15V/45W
	Hold-up time	5ms at 115 Vac input
	Output current limit	<5.0A
	Connector	USB Type-C [®]
	Operating temperature	32°F to 95°F (0°to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)
	Altitude	0 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety	Eg:
	Certifications	 * CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards -IEC60950, EN60950, UL60950, UL62368, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.



Technical Specifications

HP 65W USB TYPE-C PD	Dimensions	3.54 x 2.0 x 1.12 in (9.0cm x 5.1cm x 2.85cm)
adapter	Weight	0.55 lb (250 g) max (Not including power cord. Power cord varies by country)
	Input	country,
	Input Efficiency	Average Efficiency of 25%, 50%, 75%, 100% load condition with 115Vac/230Vac Spec: 5V : 81.5%
		9V : 86.7%
		12V : 88%
		15V:88%
		20V : 89%
	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/60W
		20V/65W
	DC output	5V/9V/12V/15V/20V
	Hold-up time	5ms at 115 Vac input
	Output current limit	<8.0A
	Connector	USB Type-C [®]
	Operating temperature	32°F to 95°F (0°to 35°C)
	Non-operating (storage) temperature	-4°F to 185°F (-20° to 85°C)
	Altitude	1 to 16,400 ft (0 to 5000m)
	Humidity	20% to 95%
	Storage Humidity	10% to 95%
	EMI and Safety	Eg:
	Certifications	 * CE Mark - full compliance with LVD and EMC directives * Worldwide safety standards -IEC60950, EN60950, UL60950, UL62368, Class1, SELV; Agency approvals - C-UL-US, NORDICS, DENAN, EN55022 Class B, FCC Class B, CISPR22 Class B, CCC, NOM-1 NYCE. * MTBF - over 200,000 hours at 25°C ambient condition.



HP 3 -cell Long Life Li-	Dimensions (H x W x L)	4.7 x 249 x 103.07 mm (0.185 x 9.8 x 4.06 inch)
lon (58Wh) ¹	Weight	0.23 kg (0.506 lb)
	Cells/Type	3cell Lithium-Ion Polymer cell / 407792
	Energy	
	Voltage	11.55V
	Amp-hour capacity	5.095A
	Watt-hour capacity	58.84Wh
	Temperature	
	Operating (Charging)	32° to 113° F (0° to 45° C)
	Operating (Discharging)	14° to 122° F (-10° to 60° C)
	Fuel Gauge LED	NA
	Warranty	1-year
	Optional Travel Battery	No
	Available	



Technical Specifications

AUDIO

HD Stereo Codec	Realtek ALC5682I-VS
Audio I/O Ports	Headset connector supports both CTIA and OMTP style headset
Internal Speaker Amplifier	Maxim MAX98360D x2, up to 3W class-D mono smart amplifier
Multi-streaming Capable	Follow ChromeOS behavior
	(NOT SUPPORT in current version)
Sampling	Follow ChromeOS behavior
Wavetable Syntheses	N/A
Analog Audio	Stereo headphone out by 3.5mm audio jack only.
# of Channels on Line-Out	Headphone L/R, No Line-Out
Internal Speaker	Yes

FINGERPRINT READER

Sensor vendor	Model: FINGERPRINTS FPC1025
Sensor type	Capacitive
DPI resolution	508 dpi
Scan area	160x160
False Rejection Rate	CLKfreq 8kHz~19kHz
False Acceptance Rate	N/A
Mobile Voltage Operation	1.62V to 1.98V (Typical 1.8V)
Operating Temperature	-40° to +85°C
Current Consumption	< 6 mA
Image	
Low Latency Wait For	2.1 mA
Finger	
ESD Resistance	+/- 30kV
Detection Matrix	160 x 160 pixels

ENVIRONMENTAL DATA

Eco-Label Certifications &			to the following approvals and may
declarations	be labeled with one or more of t	these marks:	
	IT ECO declaration		
	US ENERGY STAR [®]		
	US Federal Energy Man	agement Program (FEMP)	
	• EPEAT ^D Gold registered in the United States. See http://www.epeat.net for registration		
	status in your country.		
	TCO Certified		
	China Energy Conserva	tion Program (CECP)	
		ntal Protection Administration	(SEPA)
	Taiwan Green Mark		
	Korea Eco-label		
	Japan PC Green label*		
Sustainable Impact	Ocean-bound plastic in Speak	er	
Specifications	 5% post-consumer recycled p 		
Specifications	Low halogen		
	 Outside Box and corrugated cu 	ishions are 100% sustainably s	ourced and recyclable
	Molded Paper Pulp Cushion in		-
	Bulk packaging available		
System Configuration		Energy Consumption and Decl	ared Noise Emissions data for the
System comigaration	Notebook model is based on a "		
		Typically configured notebook	•
Energy Consumption			
(in accordance with US			
-			
ENERGY STAR® test	115VAC 60H7	230VAC 50H7	100VAC 50Hz
ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz
ENERGYSTAR®testmethod)NormalOperation(Sort			
ENERGY STAR® test method) Normal Operation (Sort idle)	115VAC, 60Hz 5.88 W	230VAC, 50Hz 5.98 W	100VAC, 50Hz 5.89 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Long	5.88 W	5.98 W	5.89 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)	5.88 W 3.32 W	5.98 W 3.44 W	5.89 W 3.26 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W	5.98 W 3.44 W 0.42 W	5.89 W 3.26 W 0.39 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)	5.88 W 3.32 W	5.98 W 3.44 W	5.89 W 3.26 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W	5.98 W 3.44 W 0.42 W	5.89 W 3.26 W 0.39 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W NOTE:	5.98 W 3.44 W 0.42 W 0.22 W	5.89 W 3.26 W 0.39 W 0.2 W
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W NOTE: Energy efficiency data listed is f	5.98 W 3.44 W 0.42 W 0.22 W or an ENERGY STAR® compliant	5.89 W 3.26 W 0.39 W 0.2 W product if offered within the model
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W NOTE: Energy efficiency data listed is f family. HP computers marked w	5.98 W 3.44 W 0.42 W 0.22 W or an ENERGY STAR® compliant <i>i</i> th the ENERGY STAR® Logo are	5.89 W 3.26 W 0.39 W 0.2 W product if offered within the model compliant with the applicable U.S.
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W NOTE: Energy efficiency data listed is f family. HP computers marked w Environmental Protection Agen	5.98 W 3.44 W 0.42 W 0.22 W or an ENERGY STAR® compliant <i>v</i> ith the ENERGY STAR® Logo are ncy (EPA) ENERGY STAR® specif	5.89 W 3.26 W 0.39 W 0.2 W product if offered within the model compliant with the applicable U.S. ications for computers. If a model
ENERGYSTAR®testmethod)NormalOperation(Sortidle)NormalOperation(Longidle)Sleep	5.88 W 3.32 W 0.39 W 0.2 W NOTE: Energy efficiency data listed is f family. HP computers marked w Environmental Protection Ager family does not offer ENERGY S	5.98 W 3.44 W 0.42 W 0.22 W or an ENERGY STAR® compliant vith the ENERGY STAR® Logo are incy (EPA) ENERGY STAR® specif TAR® compliant configurations	5.89 W 3.26 W 0.39 W 0.2 W product if offered within the model compliant with the applicable U.S. ications for computers. If a model , then energy efficiency data listed
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Technical Specifications

	Sound Power (L _{WAd} , bels)	Sound Pr (L _{pAm} , de	
	2.7	23.	0
	2.7		
	-	-	
-			ral years. Upgradeable
		the warranty period and or for up	to " <mark>5</mark> " years after the end
dire • This Equ • This Drir • This www • Plas ISO • This	ctive - 2011/65/EC. 5 HP product is designed to ipment (WEEE) Directive 5 product is in compliance oking Water and Toxic Enfo 5 product is in compliance w.epeat.net 5 stics parts weighing over 1043. 5 product is 96.6% recycle	to comply with the Waste Electrica – 2002/96/EC. with California Proposition 65 (St forcement Act of 1986). with the IEEE 1680 (EPEAT) stand 25 grams used in the product are	al and Electronic tate of California; Safe dard at the Gold level, see marked per ISO11469 and at end of life.
External:	-		230 g
	PAPER/Paperboard		51 g
	PAPER/Molded Pulp		100 g
Internal:	PLASTIC/Polyethylene	low density - LDPE	9 g
		-	
The corrugated paper packaging materials contains at least 35.6% recycled content.			
the restriction to our product legislation in We believe the elimination of substances pertains to end We met our work requirement scope of the evolve.	ons in the European Unior cts worldwide through the Europe, as well as China he RoHS directive and sin of substances of concern. —including PVC, BFRs, and lectrical and electronics p voluntary objective to ach s for virtually all relevant commitment to include f	e (EU) Restriction of Hazardous Su e HP GSE. HP has contributed to th , India, and Vietnam. hilar laws play an important role in We have supported the inclusion d certain phthalates—in future Ro products. hieve worldwide compliance with t products by July 2013, and we wi urther restricted substances as re	bstances (RoHS) Directive he development of related n promoting industry-wide of additional oHS legislation that the new EU RoHS ill continue to extend the egulations continue to
	features and Spare parts a of production This dire This Equ This Drir This VWW Plas ISO This External: The plastic The plastic The plastic The corruga HP Inc. comp the restrictic to our produ legislation in We believe the elimination of substances- pertains to e We met our v requirement scope of the evolve.	 This product can be upgraded, possibl features and/or components contained Spare parts are available throughout of production. This product is in complianced directive - 2011/65/EC. This HP product is designed the Equipment (WEEE) Directive - This product is in complianced Drinking Water and Toxic Enfield Toxic Toxic Enfield To	- - This product can be upgraded, possibly extending its useful life by severe features and/or components contained in the Spare parts are available throughout the warranty period and or for up of production. • This product is in compliance with the Restrictions of Hazardou directive - 2011/65/EC. • This product is designed to comply with the Waste Electricat Equipment (WEEE) Directive - 2002/96/EC. • This product is in compliance with California Proposition 65 (St Drinking Water and Toxic Enforcement Act of 1986). • This product is in compliance with the IEEE 1680 (EPEAT) stand www.epeat.net • Plastics parts weighing over 25 grams used in the product are IS01043. • This product is 96.6% recycle-able when properly disposed of PAPER/Molded Pulp Internal: PLASTIC/Polyethylene low density - LDPE The plastic packaging material contains at least 100.0% recycled contors the corrugated paper packaging materials contains at least 35.6% recycle contors the corrugated paper packaging materials contains at least 35.6% recycled contors the restrictions in the European Union (EU) Restriction of Hazardous Su to our products worldwide through the HP GSE. HP has contributed to the legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in elimination of substances of concern. We have supported the inclusion substances—including PVC, BFRs, and certain pthalates—in future Rc pertains to electrical and electronics products.



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Technical Specifications

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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				
	http://www.hp.com/hpinfo/globalcitizenship/environment/supplychain/gen_specifications.html				
):				
	Asbestos				
	Certain Azo Colorants				
	• Certain Brominated Flame Retardants – may not be used as flame retardants in plastics				
	Cadmium				
	Chlorinated Hydrocarbons				
	Chlorinated Paraffins				
	Bis(2-Ethylhexyl) phthalate (DEHP)				
	Benzyl butyl phthalate (BBP)				
	Dibutyl phthalate (DBP)				
	Diisobutyl phthalate (DIBP)				
	Formaldehyde				
	Halogenated Diphenyl Methanes				
	Lead carbonates and sulfates				
	Lead and Lead compounds				
	Mercuric Oxide Batteries				
	• Nickel – finishes must not be used on the external surface designed to be frequently				
	handled or carried by the user.				
	Ozone Depleting Substances				
	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	HP offers end-of-life HP product return and recycling programs in many geographic areas. To				
and Recycling	recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest				
	HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible				
	manner.				



	The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental	For more information about HP's commitment to the environment:
Information	Global Citizenship Report
	http://www.hp.com/hpinfo/globalcitizenship/gcreport/index.html Eco-label certifications
	http://www8.hp.com/us/en/hp-information/environment/ecolabels.html ISO 14001 certificates:
	http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=c04755842 and
	http://www.hp.com/hpinfo/globalcitizenship/environment/pdf/cert.pdf
footnotes	 Percentage of ocean-bound plastic contained in each component varies by product Recycled plastic content percentage is based on the definition set in the IEEE 1680.1- 2018 standard.
	 External power supplies, WWAN modules, power cords, cables and peripherals excluded. 100% outer box packaging and corrugated cushions made from sustainably sourced certified and recycled fibers.
	• Fiber cushions made from 100% recycled wood fiber and organic materials.

COUNTRY OF ORIGIN

China

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

KING (Sold Separately)	
Docking station model #1	HP USB-C Dock G5
Total number of supported displays (incl. the notebook display)	3
Max. resolutions supported	Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)
Dock Connectors	1xHDMI, 2xDP
Technical limitations	Highest resolution with dual displays is two 8K@ 60Hz host in High Resolutio mode.
	Three maximum displays supported are two 5K@ 30 Hz on DP ports plus one 4K UHD@ 30 Hz on HDMI in Multi-function mode
	The highest resolution for a non-Thunderbolt host in Multi-function mode is
	single 5K dual cable (using both DP ports) + (1) 4K on HDMI port.
Docking station model #2	HP USB-C/A Universal Dock G2
Total number of supported displays (incl. the notebook display)	3
Max. resolutions supported	Triple 4K UHD@ 60Hz 3840x2160
Dock Connectors	1xHDMI, 2xDP
Technical limitations	The best resolution for dual or triple displays is 4K UHD@ 60Hz. For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the host

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

Audio/Video HP Wired USB-A Stereo Headset 428KGAA Audio/Video HP Wired USB-A Stereo Headset 428KGAA Cases HP Executive 15.6 Backpack 6K007AA HP Executive 51.6 Top Load 6K004A HP Executive 51.6 Top Load 6K004A HP Executive 51.6 Top Load 6K004A HP Pretude 62 15.6 Backpack 1E7D5AA HP Pretude 62 15.6 Top Load 1K644AA HP Pretude 70 Recycted 15.6 Top Load 1K644AA HP Pretude 70 Recycted 15.6 Top Load 1K644AA HP Pretude 62 15.6 Top Load 1K644AA HP Pretude 70 Recycted 15.6 Top Load 1K644AA HP Renew Business 17.3" Backpack 3E2U7AA HP Renew Business 17.3" Backpack 3E2U7AA HP Renew Business 17.3" Bag 3E2U7AA HP USB-C Lock 65 5TW10AA HP USB-C Lock 62 7T913AA Hub HP USB-C Multiport Hub 50H55AA HP USB-C to USB-A Hub Z6A00AA Adopter HP USB-C to USB 3.0 Adopter H7026A HP USB-C to USB 3.0 Adopter H7026A 1931AA HP USB-C to USB 3.0 Adopter H70258-Adopter 17831AA </th <th>Category</th> <th>Description</th> <th>Part Number</th>	Category	Description	Part Number
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		HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA



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

Power	HP 45W USB-C G2 AC Power Adapter	1HE07AA
	HP 45W USB-C LC AC Power Adapter	1MZ01AA
	HP 65W USB-C AC Power Adapter	1HE08AA
	HP 65W USB-C LC AC Power Adapter	1P3K6AA
	HP 65W USB-C Travel Slim AC Power Adapter	3PN48AA
Commodity	HP Nano Keyed Cable Lock	1AJ39AA 1AJ40AA
	HP Nano Master Keyed Cable Lock HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA



Summary of Changes

Date of change:	Version History:	Updated	Description of change:
May 17, 2022	V1 to V2	Added	Battery life
May 26, 2022	V2 to V3	Added	Environmental Data
June 15, 2022	V3 to V4	Added	Added note in Manageability Feature
September 26, 2022	V4 to V5	Removed	GPS data
December 21, 2023	V5 to V6	Added	Software and Security Section
February 20, 2024	V6 to V7	Removed	Processor Section
April 26, 2024	V7 to V8	Update	MT/s units to memory speeds

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