Overview

HP EliteBook 630 13.3 inch G10 Notebook PC



- 1. Internal Microphones (2)
- Webcam LED (Optional)
- **3.** Camera Shutter (Only available with webcam)
- 4. HD TNR and IR Camera (Optional)
- 5 IR Camera LED (Optional)
- 6. NFC Sensor

7. Clickpad

Left

- 8. Smartcard Reader (Optional)
- 9. Audio Combo Jack
- 10. SuperSpeed USB Type-A 5Gbps signaling rate port (USB 3.2 Gen 1)
- 11. Ethernet Port (RJ-45)
- 12. Nano Security Lock Slot (Lock sold separately)

Overview



Right

- 1. Power Button Key
- 2. Speakers
- 3. Power Connector
- **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.** SuperSpeed USB Type-A 5Gbps signaling rate port (Powered port) (USB 3.2 Gen 1)
- 6. HDMI 2.1 Port (Cable not included)
- 7. Touch Fingerprint Sensor (Select Models)

Overview

At a Glance

- Choice of 13th generation Intel[®] Core[™] i7, i5 and i3 processors
- Preinstalled with Windows 11 versions or FreeDOS
- Fast and upgradeable dual channel DDR4 SODIMM memory up to 64 GB
- Choice of 33.8 cm (13.3") diagonal HD, Ultra Wide Viewing Angle FHD, Touch or Non-Touch screen, and Privacy Panel
 option
- Features guiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Choice of solid state drives up to 2 TB
- Multi-layered security with HP SureStart Gen7, HP Privacy Camera, HP Sure View, HP Wolf Security (Includes HP Sure Sense and HP Sure Click), HP Secure Erase, Sure Run Gen5, Sure Recover Gen5, Touch Fingerprint reader, and Tamper Lock
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles
- Designed to support HP docking options
- Passed MIL-STD 810H tests ¹
- Battery life up to 11 hours and 30 minutes
- Optimize your video calls with an HD camera and temporal noise reduction that adjusts to the lighting in your environment.
- Can be wiped up to 1000 times with common household cleaning wipes²
- Synchronized hinge allows the EliteBook to ProBook to open to 177° +/- 3° without lifting the keyboard and offers visibility from multiple angles.
- 1. MIL-STD 810GH is not intended to demonstrate fitness of 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.
- 2. See wipe manufacturer's instructions for disinfecting and the HP cleaning guide for HP tested wipe solutions at http://h20195.www.2.hp.com/v2/GetDocument.aspx?docname=4AA7-7610ENW

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



Technical Specifications

PRODUCT NAME

HP EliteBook 630 13.3 inch G10 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 11 Pro ¹

Windows 11 Pro Education 1

Windows 11 Home - HP recommends Windows 11 Pro for Business 1

Windows 11 Home Single Language – HP recommends Windows 11 Pro for Business 1

Windows 11 Pro (Windows 11 Enterprise or Windows 10 Enterprise available with a Volume Licensing

Agreement 1

Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade) 1,2

FreeDOS

- 1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.
- 2. This system is preinstalled with Windows 10 Pro software and also comes with a license for Windows 11 Pro software and provision for recovery software. You may only use one version of the Windows software at a time. Switching between versions will require you to uninstall one version and install the other version. You must back up all data (files, photos, etc.) before uninstalling and installing operating systems to avoid loss of your data.

PROCESSORS

Processor 3,4,5,6,7	Cores	Number of	Number of	Threads	L3	Max Turbo Frequency		Base Frequency		Intel SIPP/vPro® Enterprise	Intel vPro® Essentials
5,7,5,5,		P-cores	E-cores		Cache	P- cores	E- cores	P- cores	E- cores		
Intel® Core™ i7-1365U	10	2	8	12	12 MB	5.2 GHz	3.9 GHz	1.8 GHz	1.3 GHz	Х	
Intel® Core™ i7-1355U	10	2	8	12	12 MB	5.0 GHz	3.7 GHz	1.7 GHz	1.2 GHz		
Intel® Core™ i5-1345U	10	2	8	12	12 MB	4.7 GHz	3.5 GHz	1.6 GHz	1.2 GHz	Х	
Intel® Core™ i5-1335U	10	2	8	12	12 MB	4.6 GHz	3.4 GHz	1.3 GHz	0.9 GHz		Х
Intel® Core™ i3-1315U	6	2	4	8	10 MB	4.5 GHz	3.3 GHz	1.2 GHz	0.9 GHz		_

- 3. 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.
- 4. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



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

CHIPSET

Chipset is integrated with processor

GRAPHICS

Integrated

Intel® Iris® Xe Graphics (Core i5 and Core i7) 8 Intel® UHD Graphics (Core i3)

8. Intel® Iris® Xe Graphics capabilities require system to be configured with Intel® Core™ i5 or i7 processors and dual channel memory. Intel® Iris® Xe Graphics with Intel® Core™ i5 or 7 processors and single channel memory will only function as UHD graphics.



DISPLAY

Non-Touch

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.3+PSR, anti-glare, Low Blue Light, narrow bezel, 1000 nits, sRGB, 100% for HD + IR Camera, HP Sure View Reflect Gen4 integrated privacy screen with HP Eve Ease 9,10,11,12,13

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.4+PSR2 anti-glare, LED, low power, narrow bezel, 400 nits, 72% for HD + IR Camera ^{9,10,11}

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.4+PSR2 anti-glare, LED, low power, narrow bezel, 400 nits, 72% for HD Camera ^{9,10,11}

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR, anti-glare, LED, narrow bezel, 250 nits, 45%, for HD + IR camera ^{9,10,11}

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR, anti-glare, LED, narrow bezel, 250 nits, 45%, for HD camera ^{9,10,11}

33.8 cm (13.3") diagonal, HD (1366 x 768), SVA eDP, anti-glare, WLED, narrow bezel, 250 nits, 45% for HD camera ^{9,10,11} 33.8 cm (13.3") diagonal, HD (1366x768), SVA eDP, anti-glare, WLED, narrow bezel, 250 nits, 45% ^{9,10,11}

Touch

33.8 cm (13.3") diagonal, FHD (1920 x 1080),UWVA eDP 1.2 w/o PSR anti-glare, LED, narrow bezel, touch-on-panel screen, 250 nits, 45% for HD + IR camera 9,10,11,13

33.8 cm (13.3") diagonal, FHD (1920 x 1080), UWVA eDP, anti-glare, LED, narrow bezel, touch-on-panel screen, 250 nits, 45%, for HD camera ^{9,10,11,13}

Display Size (Diagonal)

13.3" diagonal 33.8 cm (13.3") diagonal

- 9. HD content required to view HD images.
- 10. Sold separately or as an optional feature.
- 11. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 12. 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.
- 13. Actual brightness will be lower with touchscreen or Sure View.

DOCKING (Sold Separately)

Docking station model #1HP Thunderbolt 120W G4 DockDocking station model #2HP Thunderbolt 280W G4 Dock

Docking station model #3 HP USB-C Dock G5

Docking station model #4HP USB-C/A Universal Dock G2 **Docking station model #5**HP USB-C G5 Essential Dock

For additional aftermarket options and docking specs please see page 40.



STORAGE AND DRIVES

Primary Storage

2 TB PCIe® NVMe™ TLC 2280 Solid State Drive ¹⁴
1 TB PCIe® NVMe™ TLC 2280 Solid State Drive ¹⁴
1 TB PCIe® NVMe™ TLC 2280 Self Encrypted OPAL2 Solid State Drive ¹⁴
512 GB PCIe® Gen4x4 NVMe™ M.2 TLC Self Encrypted OPAL2 Solid State Drive ¹⁴
512 GB PCIe® Gen4x4 NVMe™ M.2 TLC Solid State Drive ¹⁴
512 GB PCIe® NVMe™ Value M.2 SSD ¹⁴
256 GB PCIe® NVMe™ Value 2280 Self Encrypted OPAL2 Solid State Drive ¹⁴
256 GB PCIe® NVMe™ Value M.2 SSD ¹⁴

14. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

MEMORY

Maximum Memory

64 GB DDR4-3200 SDRAM 15

Memory

64 GB DDR4-3200 SDRAM (2x32GB) ¹⁵
32 GB DDR4-3200 SDRAM (2x16GB) ¹⁵
32 GB DDR4-3200 SDRAM (1x32GB) ¹⁵
16 GB DDR4-3200 SDRAM (2x8GB) ¹⁵
16 GB DDR4-3200 SDRAM (1x16GB) ¹⁵
8 GB DDR4-3200 SDRAM (1x8GB) ¹⁵
8 GB DDR4-3200 SDRAM (2x4GB) ¹⁵

Memory Slots

2 SODIMM
Slot is customer accessible / upgradeable
DDR4 PC4 SODIMMS (Raptor Lake runs at 3200)
Supports Dual Channel Memory

15. 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.



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 160MHz CNVi World-wide WLAN non-vPro® Wireless Card ¹⁶ Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 160MHz CNVi World-wide WLAN vPro® Wireless Card ¹⁶

NFC

NXP NPC300 Near Field Communication Module (NFC Mirage WNC XRAV-1)

Miracast

Native Miracast Support 17

Ethernet

Intel® I219-LM 1 Gigabit Network Connection LOM (vPro) ¹⁸ Intel® I219V 1 Gigabit Network Connection LOM (non-vPro) ¹⁸

16. 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.

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

18. The term "10/100/1000" or "Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.



AUDIO/MULTIMEDIA

Audio

2 Integrated stereo speakers Integrated microphone (Dual Array)

Speaker Power

2W/4ohm Per speaker

Webcam

720p HD camera with Temporal Noise Reduction ^{9,10}
720p HD camera+IR Camera with Temporal Noise Reduction ^{9,10}
5 MP + IR camera for face authentication with Windows Hello

9. HD content required to view HD images.10. Sold separately or as an optional feature.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill resistant with optional backlit function 19

Pointing Device

Clickpad with multi-touch gesture support

Function Keys

- F1 Display Switching
- F2 Blank or SureView On/Off
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Insert
- F11 Wireless
- F12 Programmable key

Hidden Function Keys

- Fn+R Break
- Fn+S Sys Rq
- Fn+C Scroll Lock
- 19. Backlit keyboard is an optional feature.



SOFTWARE AND SECURITY

Preinstalled Software

Software

HP Quick Drop 20

HP PC Hardware Diagnostics Windows

myHP with Video Controls

HP Smart Support 21

HP Services Scan 22

HP Connection Optimizer

HP Hotkey Support

HP Support Assistant 23

HP Notifications

HP Privacy Settings

HP Power Manager

Buy Microsoft Office (Sold separately)

Manageability Features

HP Connect 24

HP Image Assistant Gen5 (download)

HP Manageability Integration Kit (download) 25

HP Client Management Script Library (download)

HP Patch Assistant (download) 26

HP Driver Packs (download)

HP Client Catalog (download)

HP Cloud Recovery

Security Management

HP Wolf Security for Business ²⁷ includes:

HP Sure Click 28

HP Sure Sense 29

HP Sure Run 30

HP Sure Recover 31

HP Sure Start 32

HP Tamper Lock

HP Sure Admin 33

BIOS

HP BIOSphere Gen6 34

HP Secure Erase 35

Absolute Persistence Module 36

BIOS Update via Network

HP Wake on WLAN

Secured-Core PC Enable 37

TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified) (FIPS 140-2 Level 2 Certified)

HP Fingerprint Sensor 38

Security TPM

Model: Nuvoton NPCT760HABYX

Version: 7.2.3.1



Technical Specifications

Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

Smartcard Reader

Model number: Alcor AU9560 FIPS 201 Compliant: Yes

IPv6 Support

Yes

FirstNet Certified

Yes

The BIOS on this notebook implements ISO/IEC 19678:2015 guidelines (formerly NIST 800-147).

UEFI version: 2.7

Class: 3

20. HP Quick Drop requires Internet access and Windows 10 or higher PC 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.

- 21. HP Smart Support requires HP TechPulse to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support.
- 22. HP Services Scan is provided with Windows Update on select products and will check entitlement on each hardware device to determine if an HP TechPulse-enabled service has been purchased, and will download applicable software automatically. HP TechPulse is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP TechPulse follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to TechPulse portal is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements. Not applicable in China.
- 23. HP Support Assistant requires Windows and Internet access.
- 24. 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.
- 25. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 26. HP Patch Assistant available on select HP PCs with the HP Manageability Kit that are managed through Microsoft System Center Configuration Manager. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 27. HP Wolf Security for Business requires Windows 10 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 and OS requirement.
- 28. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 29. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS
- 30. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 31. HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and higher must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module
- 32. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher
- 33. HP Sure Admin requires Windows 10 or higher, HP BIOS, HP Manageability Integration Kit from
- http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store
- 34. HP BIOSphere Gen6 features may vary depending on the platform and configuration.



- 35. HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.
- 36. Absolute firmware module is shipped turned off and can only be activated with the purchase a license subscription and full activation of the software agent. License subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. Certain conditions apply. For full details visit: https://www.absolute.com/about/legal/agreements/absolute/
- 37. Secured-Core PC Enable requires an Intel® vPro®, AMD Ryzen™ Pro processor or Qualcomm® processor with SD850 or higher and requires 8 GB or more system memory. Secured-core PC is enabled from the factory.
- 38. HP Fingerprint sensor is an optional feature that must be configured at purchase.



Technical Specifications

POWER

Power Supply

AC Adapter 45 Watt nPFC Standard USB Type-C® Straight 1.8m 39

AC Adapter 45 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m 39

AC Adapter 45 Watt Smart nPFC Standard C8 for 2 prong Barrel 4.5mm Right Angle 39

AC Adapter 65 Watt nPFC Standard USB Type-C® Straight 1.8m 39

AC Adapter 65 Watt Smart nPFC EM Barrel 4.5mm New EM 39

AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m 39

Battery

HP Long Life 3-cell, 42.75 Wh Polymer 40,41 Compliant with UL 1642 Standard

Power Cord

3-wire plug - 1m ³⁹ 2-wire plug - 1m ³⁹

Battery Life

Up to 11 hours and 30 minutes with 42whr battery (HP Long Life 3-Cell, 42 Whr Polymer, UMA graphic, Intel U15, Display set to 200 nits display (on a 400 nit display), 2*4G memory, 256 GB SSD)⁴²

Battery Weight

HP Long Life 3-cell - 42.75 Wh Polymer - .40 lb HP Long Life 3-cell - 42.75 Wh Polymer - 181.83 g

- 39. Availability may vary by country.
- 40. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 41. 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.
- 42. MM18 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.



WEIGHTS & DIMENSIONS

Product Weight

Starting at 2.7 lb ⁴³ Starting at 1.22 kg ⁴³

Product Dimensions (W x D x H)

12.08 x 8.20 x 0.62 in 30.69 x 20.84 x 1.59 cm

Packaging Dimensions (W x D x H) 44

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

- 43. Weight will vary by configuration. Does not include power adapter.
- 44. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.

PORTS/SLOTS

- 1 Thunderbolt™ 4 with USB4™ Type-C® 40 Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) 45
- 2 SuperSpeed USB Type-A 5Gbps signaling rate Port (1 Powered port)
- 1 AC power
- 1 HDMI 2.1 46
- 1 Headphone/microphone combo jack
- 1 RJ-45
- 1 Smart Card Reader (optional)
- 45. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4
- 46. HDMI cable sold separately

SERVICE AND SUPPORT

1-year and 3-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty. Refer to http://www.hp.com/support/batterywarranty/ for additional battery information. On-site service and extended coverage is also available. HP Care Pack Services are optional extended service contracts that go beyond the standard limited warranties. To choose the right level of service for your HP product, use the HP Care Pack Services Lookup Tool at: http://www.hp.com/go/cpc.⁴⁷

47. 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.



Technical Specifications

SYSTEM UNIT

Stand-Alone Power Requirements

(AC Power)

Nominal Operating Voltage 19V
Average Operating Power 3.49W
Integrated graphics Yes
Discrete Graphics N/A
Max Operating Power 45W

Temperature

Operating 32° to 95° F (0° to 35° C)

(No sustained direct exposure to sunlight)

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

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

Relative Humidity

Operating 10% to 90% (non-condensing)

Non-operating 5% to 95%

(38.7° C (101.6° F) maximum wet bulb tempera-ture; non-condensing)

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

Planned Industry Standard

Certifications

Regulatory Model Number HSN-Q33C CSA/UL 62368-1 Yes

ENERGY STAR® Yes 48

EPEAT® Gold in the United States 49

FCC/ICES/CISPR/VCCI Yes
CE MARKING Yes
GS Mark Yes

Related commodity should comply with ISO 9241 Standards.

China CCC/SRRC Yes Taiwan BSMI/NCC Yes Korea KCC/KC/KES Yes Ukraine NSoC/TEC Yes **EAEU Compliance** Yes Saudi Arabian Compliance Yes TC0 Yes Low Blue Light Yes **WW RoHS** Yes



48. Configurations of the HP EliteBook 630 13.3 inch G10 Notebook PC that are ENERGY STAR® qualified are identified as HP HP EliteBook 630 13.3 inch G10 Notebook PC ENERGY STAR on HP websites and on http://www.energystar.gov.

49. Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit http://www.epeat.net for more information.

DISPLAYS

1. Actual brightness will be lower with touchscreen or HP Sure View. **NOTE:** All specifications represent the typical specifications provided by HP's component manufacturers; actual performance may vary either higher or lower.

13.3 in FHD (1920 x 1080) Anti-Glare UWVA Low Blue Light sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacyG4 Plus flat LCD Panel

 Outline Dimensions (W x H x D)
 299.060 x 185.550 (max)

 Active Area
 293.760 x 165.240mm (typ)

Weight 210g (max)
Diagonal Size 13.3 (inch)
Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio 1500:1 (typ)
Refresh Rate 60Hz

Brightness 1000nits 1

Pixel Resolution - Format 1920 x1080 (FHD)

Backlight WLED **Pixel Resolution** RGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light Yes
Power Consumption (W, EBL@ N/A

150nits max/ 200nits max)

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45percent cg 250nits eDP 1.2 w/o PSR slim NWBZ

 Outline Dimensions (W x H x D)
 300.560 x 187.770 mm (max)

 Active Area
 293.760 x 165.240 mm (typ.)

Weight 260g (max)
Diagonal Size 13.3 (inch)
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio600:1 (typ.)Refresh Rate60HzBrightness250 nits 1

Pixel Resolution - Format 1920 x 1080 (FHD)

Backlight LED

Pixel Resolution RGB Stripe
Color Gamut Coverage 45%



Color Depth 6 bits

Viewing Angle UWVA 85/85/85

Low Blue Light No

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

2.40 (max)/ NA

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 45 percent cg 250 nits eDP slim Touch on Panel NWBZ

 Outline Dimensions (W x H x D)
 300.560 x 187.770 mm (max)

 Active Area
 293.760 x 165.240 mm (typ.)

Weight 268 g (max)
Diagonal Size 13.3 (inch)
Surface Treatment Anti-Glare
Touch Enabled Yes 1

Contrast Ratio600:1 (typ.)Refresh Rate60HzBrightness250nits 1

Pixel Resolution - Format 1920 x 1080 (FHD)

Backlight LED

Pixel ResolutionRGB StripeColor Gamut Coverage45%Color Depth6

Viewing Angle UWVA 85/85/85

Low Blue Light No

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

2.70 (max)/ NA

Panel LCD 13.3 inch FHD (1920x1080) Anti-Glare WLED UWVA 72percent cg 400nits eDP 1.4+PSR2 ultraslim LP NWBZ

 Outline Dimensions (W x H x D)
 299.060 x 185.540 mm (max)

 Active Area
 293.76 x 165.24 mm (typ.)

Weight 170 g (max)

Diagonal Size 13.3 (inch)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1200:1 (typ.)Refresh Rate60HzBrightness400 nits 1

Pixel Resolution - Format 1920 x 1080 (FHD)

BacklightLEDPixel ResolutionRGBColor Gamut Coverage72%Color Depth8



Viewing Angle UWVA 85/85/85

Low Blue Light No

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

1.09 (max)/ 1.30 (max)

Panel LCD 13.3-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP NWBZ ultraslim **Outline Dimensions (W x H x D)** 300.560 x 187.770 mm (max)

Active Area 293.830x 165.200 mm

Weight 260 g (max)

Diagonal Size 13.3 (inch)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio300:1 (typ.)Refresh Rate60 HzBrightness250 nits 1

Pixel Resolution - Format 1366 x 768 (HD)

Backlight LED

Pixel Resolution RGB Stripe
Color Gamut Coverage NTSC 45%

Color Depth 6

Viewing Angle SVA 45/45/15/35

Low Blue Light No

Power Consumption (W, EBL@

150nits max/ 200nits max) 1.95 (max) / 2.37 (max)



STORAGE AND DRIVES

For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10 and 11) is reserved for system recovery software.

SSD 256GB 2280 PCIe NVMe $\,$ Form Factor

Value

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

Interface PCIe NVMe

Maximum Sequential Read2000 MB/s ±20%Maximum Sequential Write900 MB/s ±20%Logical Blocks500118192

Features ATA Security; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe Value

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

Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1000 MB/s ±20%Logical Blocks1000215216FeaturesPyrite 2.0, TRIM; L1.2

256GB PCIe 2280 NVMe Self Encrypted OPAL2 Value Solid State Drive Form FactorM.2 2280Capacity256 GBNAND TypeOpal2 Value

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

Features Pyrite 2.0, TRIM; L1.2

512GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive

Form FactorM.2 2280Capacity512 GBNAND TypeOpal2 TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,216FeaturesPyrite 2.0, TRIM; L1.2

1TB PCIe-4x4 2280 NVME Self Encrypted OPAL2

Form Factor M.2 2280
Capacity 1 TB
NAND Type Opal2 TLC



Three Layer Cell Solid State Drive

Maximum Sequential Read Maximum Sequential Write

Logical Blocks Features

Interface

PCIe NVMe Gen4X4 6400 MB/s ±20% 5000 MB/s ±20% 2,000,409,264

Pyrite 2.0, TRIM; L1.2

SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell

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

Maximum Sequential Read Maximum Sequential Write Logical Blocks

Logical Block Features

Interface

Features

Features

6400 MB/s ±20% 3500 MB/s ±20% 1,000,215,216 Pyrite 2.0, TRIM; L1.2

PCIe NVMe Gen4X4

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell

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

Interface Maximum Sequential Read Maximum Sequential Write Logical Blocks

6400 MB/s ±20% 5000 MB/s ±20% 2,000,409,264 Pyrite 2.0; TRIM; L1.2

PCIe NVMe Gen4X4

SSD 2TB 2280 PCIe-4x4 NVMe Three Layer Cell

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

Interface Maximum Sequential Read Maximum Sequential Write Logical Blocks

6400 MB/s ±20% 5000 MB/s ±20% 4,000,797,360 Pyrite 2.0; TRIM; L1.2

PCIe NVMe Gen4X4

NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E + Wireless LAN Standards IEEE 802.11a Bluetooth® 5.3 M.2 IEEE 802.11b 160MHz CNVi World-wide IEEE 802.11q WLAN vPro Wireless Card¹ 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 Wi-Fi certified Interoperability **Frequency Band** •802.11b/g/n/ax 2.402 - 2.482 GHz •802.11a/n/ac/ax 4.9 - 4.95 GHz (Japan) 5.15 - 5.25 GHz 5.25 - 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 ² • IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only AES-CCMP: 128 bit in hardware 802.1x authentication • WPA, WPA2: 802.1x. WPA-PSK, WPA2-PSK, TKIP, and AES. WPA2 certification WPA3 certification • IEEE 802.11i WAPI



Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)



Roaming IEEE 802.11 compliant roaming between access points

Output Power ³ • 802.11b: +17dBm minimum

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

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

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)

802.11ax HE160(5GHz): +10dBm minimum

• Connected Standby 10mW

· Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity ⁴ • 802.11b, 1Mbps: -93.5dBm maximum

802.11b, 11Mbps: -84dBm maximum
802.11a/g, 6Mbps: -86dBm maximum
802.11a/g, 54Mbps: -72dBm maximum
802.11n, MCS07: -67dBm maximum
802.11n, MCS15: -64dBm maximum

802.11ac, MCS0(VHT80): -84dBm maximum
802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
802.11ac, MCS9(VHT160): -57dBm maximum
802.11ax, MCS11(HE40): -54dBm maximum
802.11ax, MCS11(HE80): -54dBm maximum
802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth communications

Form Factor PCI-Express M.2 MiniCard

Dimensions 1. Type 2230 : 2.3 x 22.0 x 30.0 mm

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 3.3v +/- 9%

Temperature Operating 14° to 158° F (-10° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

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

Non-operating 5% to 95% (non-condensing)



Altitude Operating 0 to 10,000 ft (3,048 m)

Non-operating 0 to 50,000 ft (15,240 m)

LED Activity LED Amber – Radio OFF; LED OFF – Radio ON

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

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

Frequency Band 2402 to 2480 MHz

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

Data Rates andLegacy: 3 Mbps data rate; throughput up to 2.17 Mbps **Throughput**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.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth Software

Supported Link Topology Bluetooth Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management Certifications

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

UL, CSA, and CE Mark

Bluetooth Profiles Supported

BT4.1-ESR 5/6/7 Compliance

LE Link Layer Ping LE Dual Mode

LE Link Layer

LE Low Duty Cycle Directed Advertising LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

BT4.2 ESR08 Compliance

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

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2 Headset Profile (HSP) Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

BT5.2

ESR9/10 Compliance

LE Advertisement Extensions



Channel Selection Algo Limited High Duty Cycle Non-Connectable Advertising 2Mbps LE LE Long Range BT5.3

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

- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).

Intel® AX211 Wi-Fi 6E +	Wireless LAN Standards	IEEE 802.11a
Bluetooth® 5.3 M.2		IEEE 802.11b
160MHz CNVi World-wide		IEEE 802.11g
WLAN non-vPro Wireless		IEEE 802.11n
Card ¹		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

• IEEE and WiFi compliant 64 / 128 bit WEP encryption for a/b/g mode only Security²

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

Output Power³

Ad-hoc (Peer to Peer)

Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

> 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

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)

802.11ax HE160(5GHz): +10dBm minimum

Connected Standby 10mW

Radio disabled 8 mW

Power Management

ACPI and PCI Express compliant power management

802.11 compliant power saving mode

Receiver Sensitivity⁴

• 802.11b, 1Mbps: -93.5dBm maximum • 802.11b, 11Mbps: -84dBm maximum 802.11a/q, 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, mounted in the display

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Two embedded dual band 2.4/5 GHz antennas are provided to the card to

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Weight 1. Type 2230 : 2.8g

2. Type 1216: 1.3g

Operating Voltage 3.3v +/- 9%

Temperature Operating 14° to 158° F (–10° to 70° C)

Non-operating -40° to 176° F (-40° to 80° C)

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

Non-operating 5% to 95% (non-condensing)

Altitude Operating 0 to 10,000 ft (3,048 m)

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LED Activity LED Amber – Radio OFF; LED OFF – Radio ON

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

Frequency Band 2402 to 2480 MHz

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

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

BLE: 1 Mbps data rate; throughput up to 0.2 Mbps

Legacy: Synchronous Connection Oriented links up to 3, 64 kbps, voice

channels

Legacy: Asynchronous Connection Less links 2178.1 kbps/177.1 kbps

asymmetric (3-DH5) or 864 kbps symmetric (3-EV5)

Transmit Power The Bluetooth component shall operate as a Class II Bluetooth device with

a maximum transmit power of + 9.5 dBm for BR and EDR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth Software

Bluetooth Software

Supported Link Topology

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C, Section 15.247 & 15.249

Power Management

ETS 300 328, ETS 300 826 Low Voltage Directive IEC950

Certifications

UL, CSA, and CE Mark

Bluetooth Software

BT4.1-ESR 5/6/7 Compliance

Supported

LE Link Layer Ping

LE Dual Mode LE Link Layer



LE Low Duty Cycle Directed Advertising

LE L2CAP Connection Oriented Channels

Train Nudging & Interlaced Scan

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LE Secure Connection- Basic/Full

LE Privacy 1.2 -Link Layer Privacy

LE Privacy 1.2 - Extended Scanner Filter Policies

LE Data Packet Length Extension

FAX Profile (FAX)

Basic Imaging Profile (BIP)2

Headset Profile (HSP)

Hands Free Profile (HFP)

Advanced Audio Distribution Profile (A2DP)

BT5.2

ESR9/10 Compliance

LE Advertisement Extensions

Channel Selection Algo

Limited High Duty Cycle Non-Connectable Advertising

2Mbps LE

LE Long Range

BT5.3

Host to Controller Encryption Key Control Enahancements

Compliance to the latest Errata Section 12.3 of BT 5.3 specification

- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.
- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



NFC Mirage module (NXP

NPC300 I2C 10mmx17mm) Dimensions (L x W x H)

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

Module 25 mm by 10 mm by 2.0 mm

ECMA-320 NFCIP-2

NFC Forum Support Reader (PCD-VCD) Mode Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2 ISO/IEC 14443 A

ISO/IEC 14443 B ISO/IEC 15693 MIFARE 1K MIFARE 4K

MIFARE DESFire

FeliCa

Jewel and Topaz cards

Card Emulation (PICC-VICC)

ISO/IEC 14443 A Mode ISO/IEC 14443 B and B'

> MIFARE FeliCa

13.56 MHz **Frequency**

NFC Modes Supported Reader/Writer, Peer-to-Peer **Raw RF Data Rates** 106, 212, 424, 848 kbps

Operating temperature 0°C to 70°C Storage temperature -20°C to 125°C **Humidity** 10-90% operating

5-95% non-operating 4.35 to 5.25 Volts

Supply Operating voltage

I/O Voltage 1.8V or 3.3V

Power Consumption (Booster enable. VBAT= 3.3V, $VCC_BOOST = 5V$)

Mode Power Consumption, Typical

Polling 7.3 mA

Detected Test Tag Type 1 Total 283.8 mA

Net Module 236.8 mA

Detected Test Tag Type 2 Total 288.8 mA

Net Module 241.8 mA

Total 287.7 mA **Detected Test Tag Type 3**

Net Module 240.7 mA

Detected Test Tag Type 4 Total 282.3 mA

Net Module 235.3 mA

Antenna Antenna connector, 0.5mm pitch, 7 connector FPC. Antenna

matching is external to module.

Intel® I219-LM 1 Gigabit Network Connection LOM (vPro) **Connector** RJ-45

System Interface PCI (Intel proprietary) + SMBus

Data rates supported 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)

100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses 21-

30)

1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 8023 clauses 40)

Auto-Negotiation (Automatic Speed Selection)

Full Duplex Operation at all Speeds, Half Duplex operation at 10 and 100

Mbit/s

IEEE Compliance IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q VLAN support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

IEEE 802.3az EEE (Energy Efficient Ethernet)

Performance TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload Receiving Side Scaling (Hash Mode Only)

Jumbo Frame 9K

Power consumption Cable Disconnetion: 25mW

100Mbps Full Run: 450mW 1000bp Full Run: 1000mW WoL Enable(S3/S4/S5): 50mW WoL Disable(S3/S4/S5): 25mW

Power ACPI compliant – multiple power modes

Management Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

Management Interface Auto MDI/MDIX Crossover cable detection

IT Manageability Wake-on-LAN from modern standby or sleep state (Magic Packet and

Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status

Security & Manageability Intel® vPro™ support with appropriate Intel® chipset components

Intel® I219v 1 Gigabit Network Connection LOM (non-vPro) **Connector** RJ-45

System Interface PCI(Intel proprietary) + SMBus

Data rates supported 1. 10 Mbit/s operation (10BASE-T; IEEE 802.3i; IEEE 802.3 clauses 13-14)

2. 100 Mbit/s operation (100BASE-TX; IEEE 802.3u; IEEE 802.3 clauses

21-30)

3. 1000 Mbit/s operation (1000BASE-T; IEEE 802.3ab; IEEE 802.3 clauses

40)

4. Auto-Negotiation (Automatic Speed Selection)



Full Duplex Operation at all Speeds, Half Duplex operation at 10, 100 &

1000 Mbit/s

IEEE Compliance IEEE 802.1p QoS (Quality of Service) Support

IEEE 802.1q VLAN support

IEEE 802.3x Flow Control (IEEE 802.3 clauses 31-32; configurable)

IEEE 802.3az EEE (Energy Efficient Ethernet)

IEEE 802.3i 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BAE-T IEEE 802.3bz 2.5GBASE-T

Performance TCP/IP/UDP Checksum Offload (configurable)

Protocol Offload (ARP & NS)

Large send offload and Giant send offload Receiving Side Scaling (Hash Mode only)

Jumbo Frame 9K

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Power ACPI compliant – multiple power modes

Management Situation-sensitive features reduce power consumption

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consumption

Management Interface Auto MDI/MDIX Crossover cable detection

IT Manageability Wake-on-LAN from modern standby or sleep state (Magic Packet and

Microsoft Wake-Up Frame); Wake-on-LAN from off (Magic Packet only)

PXE 2.1 Remote Boot

Statistics Gathering (SNMP MIB II, Ethernet-like MIB, Ethernet MIB

(802.3x, clause 30))

Comprehensive diagnostic and configuration software suite

Virtual Cable Doctor for Ethernet cable status

Security & Manageability Intel® non-vPro™ support with appropriate Intel® chipset components



POWER

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

AC Adapter 45 Watt nPFC Dimensions (H x W x D) Standard USB Type C® Straight 1.8m

3.701 x 1.693 x 1.071 in (9.4 x 4.3 x 2.72 cm)

Weiaht

Output

(Not including power cord. Power cord varies by country.)

Input 100~240VAC

Input Efficiency

0.44 lb (200 g) max

Average Efficiency of 25%, 50%, 75%, 100%

load condition with 115Vac/230Vac Spec:

5V: 81.5% 9V: 86.7% 12V: 87.4% 15V: 87.8%

Input frequency range

47 ~ 63Hz

Input AC current

Max. 1.4 A at 90 Vac

Output power 5V/15W

9V/27W 12V/36W 15V/45W

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

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

Output current limit <5.0A

Connector

USB Type-C® Operating

Environmental Design

32°F to 95°F (0°to 35°C) temperature

Non-operating (storage)

temperature

-4°F to 185°F (-20°to 85°C)

Altitude

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

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

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

EN62368-1:2014+A11, UL62368-1

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, USB-IF.

Ukraine (CoC+DoC+RoHS+ECO)

AC Adapter 45 Watt Smart Dimensions (H x W x D)

nPFC Standard Barrel 4.5mm Right Angle 1.8m

Weight

3.74 x 1.772 x 1.043 in (9.5x4.5x2.65cm)

0.44 lb (200 g) max

(Not including power cord. Power cord varies by country.)

100~240VAC

Input **Input Efficiency** 87.74 % at 115 Vac and 88.4 % at 230Vac

> Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output **Output power** 45W

> DC output 19.5V

100% load 5ms at 115 Vac input/80% load Hold-up time

10ms at 115 Vac input

Output current limit <8.0A

Connector 4.5mm Barrel Type

Environmental Design Operating

32°F to 95°F (0°to 35°C) temperature

Non-operating (storage)

temperature

-4°F to 185°F (-20°to 85°C)

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

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

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

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EN62368-1:2014+A11, UL62368-1

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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

AC Adapter 65 Watt nPFC Dimensions (H x W x D) Standard USB Type C® Straight 1.8m

3.543 x 2.008 x 1.122 in (9.0x5.1x2.85cm

Weight 0.53 lb (240 g) max

(Not including power cord. Power cord varies by country.)

100~240VAC Input

> **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 ~ 63 Hz

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 100% load 5ms at 115 Vac input

Output current limit <8.0A

USB TYPE C® Connector

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

temperature

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

temperature

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

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

EMI and Safety Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

EN62368-1:2014+A11. UL 62368-1

Agency approvals - C-UL-US, TUV/GS, TUV/PSE, EN55032 Class B, FCC Class B, CISPR32 Class B, CCC and CECP, CU(EAC), EAEU, KCC (Safety+EMC) and K-MEPS, NOM-001 and 029 NYCE, NRcan, NRCS, ISC, SEC, PSB.

Argentina S-mark, Australia RCM, BIS, BSMI, UAE, UKCA DoC

AC Adapter 65 Watt Smart Dimensions (H x W x D)

nPFC EM Barrel 4.5mm

Weight

4.016 x 2.165 x 1.181 in (10.2 x 5.5 x 3 cm)

0.58 lb (265 g) max

(Not including power cord. Power cord varies by country.)

Input 100 ~ 240VAC

> **Input Efficiency** 88.0 % at 115 Vac and 89.0 % at 230Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.7 A at 90 Vac

Output **Output power** 65W

DC output 19.5V

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

Operating temperature 32°F to 95°F (0°to 35°C)

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

temperature

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

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

EMI and Safety

Environmental Design

Certifications

CE Mark - full compliance with LVD and EMC directives

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018.

EN62368-1:2014+A11. UL62368-1

Agency approvals - C-UL-US, TUV/GS, EN55032 Class B, FCC Class B.

CISPR32 Class B, CCC and CECP, BIS, UKCA DoC

AC Adapter 65 Watt Smart Dimensions (H x W x D)

nPFC Standard Barrel 4.5mm Right Angle 1.8m

Weight

3.543 x 2.008 x 1.122 in (9.0 x 5.1 x 2.85 cm)

0.55 lb (250 g) max

(Not including power cord. Power cord varies by country.)

Input 100 ~ 240VAC

> **Input Efficiency** 88.0 % at 115 Vac and 89.0 % at 230Vac

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.7 A at 90 Vac

Output **Output power** 65W

> DC output 19.5V

Hold-up time 100% load 5ms at 115 Vac input/80% load

10ms at 115 Vac input

Output current limit <11.0A

4.5mm Barrel Type Connector

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

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

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

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

Worldwide safety standards - IEC60950-1 and IEC62368-1: 2018,

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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 GEMS and RCM, BIS, BSMI, UAE, UKCA DoC

RH 42Whr Long Life Polymer Fast Charge 3 cell Battery 1

Weight 0.18 kg (0.397 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 545974

Energy **Voltage** 11.4V

> Amp-hour capacity 3.752Ah Watt-hour capacity¹ 42.75Wh

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

> Operating (Discharging) 14° to 122° F (-10° to 60° C)

Optional Travel Battery

Available

No

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

AUDIO

HD Stereo Codec Realtek ALC3247

Audio I/O Ports Headset connector supports a CTIA style headset and is re-taskable as a Microphone-in or

Headphone-out port

Internal Speaker Amplifier

ALC 3247 has Embedded Class-D 2W Stereo Amplifier

Multi-streaming Capable

Playback multi-streaming can be enabled in the audio control panel to allow independent audio

Sampling streams to be sent to/from the front and rear jacks or integrated speaker.

Independent sampling rates for DAC's and ADC's; supports resolutions from 16 to 24-bit; 44.1 **Wavetable Syntheses**

Internal SPK/Headphone/External MIC

24bit,48000Hz: Digital MIC

Analog Audio

Support 3.5mm Headset: CTIA only and Headphone-out

of Channels on Line-Out

We do not support Line-Out

Internal Speaker Yes

FINGERPRINT READER

Sensor vendor **ELAN 80ST** Capacitive Sensor type 508 DPI **DPI** resolution 80x80 pixels Scan area

<3% **False Rejection Rate False Acceptance Rate** < 0.001% **Mobile Voltage Operation** 2.7~3.6V -20°C - +80°C **Operating Temperature**

Current Consumption

Image

Low Latency Wait For

Finger

900uA

35mA peak

Capture Rate Capture Rate: 50 frame/sec IEC 61000-4-2 4B (+15KV) **ESD Resistance** 508 dpi / 4x4mm sensor area **Detection Matrix**



Technical Specifications

ENVIRONMENTAL DATA

Heat Dissipation* Normal Operation (Short idle) Normal Operation (Long	115VAC, 60Hz 18.1 BTU/hr	230VAC, 50Hz 18.3 BTU/hr	100VAC, 50Hz 18.1 BTU/hr			
Normal Operation (Short	115VAC, 60Hz	230VAC, 50Hz				
Heat Dissipation*	·		100VAC, 50Hz			
	Microsoft Windows® opera	ating system.				
NOTE: Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within to family. HP computers marked with the ENERGY STAR® Logo are compliant with the application Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a family does not offer ENERGY STAR® compliant configurations, then energy efficiency data for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and Microsoft Windows® operating system.						
Off	0.396 W	0.42 W	0.396 W			
Sleep	0.948 W	0.984 W	0.96 W			
Normal Operation (Long idle)		0.984 W				
Normal Operation (Sort idle)	5.292 W 0.948 W	5.34 W	5.304 W 0.96 W			
Energy Consumption (in accordance with US ENERGY STAR® test method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the Notebook model is based on a "Typically Configured Notebook".					
Sustainable Impact Specifications	 Ocean-bound plastic in speaker 5% post-consumer recycled plastic 50% recycled metal Low halogen Outside Box and corrugated cushions are 100% sustainably sourced and recyclable Molded Paper Pulp Cushion inside box is 100% sustainably sourced and recyclable Bulk packaging available 					
	status in your country. TCO Certified China Energy Conservation Program (CECP) China State Environmental Protection Administration (SEPA) Taiwan Green Mark Korea Eco-label Japan PC Green label*					
	 US ENERGY STAR® US Federal Energy Management Program (FEMP) EPEAT^a Gold registered in the United States. See http://www.epeat.net for registration 					
declarations	be labeled with one or more of these marks: • IT ECO declaration					
ENVIRONMENTAL DATA Eco-Label Certifications &		•	certified to the following approvals and may			



Technical Specifications

Sleep	3.2 BT	U/hr	3.4 BT	U/hr		3.3 BTU/hr
Off	1.4 BT	1.4 BTU/hr 1.4 B				1.4 BTU/hr
		dissipation is			easured watts, as:	suming the service level is
Declared Noise Emissions		Sound Powe	r		Sound P	ressure
(in accordance with		(L _{WAd} , bels)			(L _{pAm} , de	
ISO 7779 and ISO 9296)				(=p,iii), 0.000,000,		
Typically Configured – Idle		2.6		13.3		
Fixed Disk – Random writes		2.9			21	.5
Optical Drive – Sequential reads		3.5			29	0.6
Longevity and Upgrading	This product	can be upgra	ided, possibly e	ktending its	useful life by seve	eral years. Upgradeable
	features and	or compone/	nts contained ir	the		
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive - 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. 				al and Electronic Equipment tate of California; Safe dard at the Gold level, see marked per ISO11469 and	
Dackaging Materials				te when pro	perly disposed of	<u></u>
Packaging Materials	External:	PAPER/Coi				230 g
		PAPER/ Pa	<u> </u>			51 g
	PAPER/Molded Pulp				72 g	
	Internal: PLASTIC/Polyethylene low density - LDPE 9 g					
	The plastic packaging material contains at least 0.0% recycled content.					
	The corrugated paper packaging materials contains at least 53.1% recycled content. HP Inc. complies fully with materials regulations. We were among the first companies to extend					
RoHS Compliance	the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—					
	including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the					



Technical Specifications

scope of the commitment to include further restricted substances as regulations continue to evolve.
To obtain a copy of the HP RoHS Compliance Statement, see HP RoHS position statement.
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) Tributyl Tin (TBT), Triphenyl Tin (TPT), Tributyl Tin Oxide (TBTO)
 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.



End-of-life Management and Recycling	HP offers end-of-life HP product return and recycling programs in many geographic areas. To recycle your product, please go to: http://www.hp.com/go/reuse-recycle or contact your nearest HP sales office. Products returned to HP will be recycled, recovered or disposed of in a responsible manner. The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at: http://www.hp.com/go/recyclers. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.
HP, Inc. Corporate Environmental	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. Plastic cushions are made from >90% recycled plastic. 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.

COUNTRY OF ORIGIN

China



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

DOCKING (Sold Separately)

Docking station model #1 HP Thunderbolt 120W G4 Dock

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Quad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

Dock Connectors 2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running

Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in

multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz +

(1) 4K UHD @ 30Hz.

Docking station model #2

HP Thunderbolt 280W G4 Dock

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

Max. resolutions supported

Quad 4K @60Hz

Dual 8K single cable@30 for TB hosts or USB-C hosts DP 1.4 with DSC in high res

mode

Dock Connectors

2xDP, 1xHDMI, 1xTB, 1xUSB-C Alt Mode

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

Thunderbolt Hosts:

Maximum of (4) displays with maximum resolution of 5K@ 30Hz running

Thunderbolt host.

Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt host or running a non-Thunderbolt host in high resolution mode @30Hz

Non-Thunderbolt hosts:

The highest resolution for dual displays running a non-Thunderbolt host in

multi-function mode is

(1) 5K dual cable (using both DP ports) +(1) 4K on USB-C DP port

Non-Thunderbolt hosts support (3) displays with a maximum resolution of (2) 5K single cable + (1) 4K UHD @ 60 Hz in high resolution mode. In multi-function mode the maximum resolution for (3) displays is (2) 5K single cable @ 30Hz +

(1) 4K UHD @ 30Hz.

Docking station model #3

HP USB-C Dock G5



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

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dock Connectors

Technical limitations

3

Dual 5K@ 30Hz + (1) 4K UHD (multi-function mode)

1xHDMI, 2xDP

Maximum resolution and display support is dependent on the maximum

capability of the notebook.

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

mode.

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

UHD@ 30 Hz on HDMI in Multi-function mode

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

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

Docking station model #4

Total number of supported displays

(incl. the notebook display) Max. resolutions supported

Dock Connectors

HP USB-C/A Universal Dock G2

3

Dual 4K @ 60Hz

Single 5K @ 60Hz

1xHDMI, 2xDP

Technical limitations Maximum resolution and display support is dependent on the maximum

capability of the notebook.

The best resolution for dual or triple displays is 4K UHD@ 60Hz.

For use with the USB-A adapter that comes in the box the maximum number of displays supported is (2) 4k x 60 Hz on the Type-A Gen 1 connection from the

host.



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

Туре	Description	Part Number
Audio	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
	HP 365 BT Speaker	567D3AA#ACJ
Video	HP 325 FHD USB-A Webcam	53X27AA
	HP 965 4K USB-A STR Webcam	695J5AA
Cases	HP Prelude G2 15.6 Backpack	1E7D6AA
	HP Prelude G2 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew 14 Laptop Sleeve	2E6U9AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Executive 14.1 Laptop Sleeve	6B8Y3AA
	HP Renew Executive 16 Laptop Backpack	6B8Y1AA
	HP Renew Executive 16 Laptop Bag	6B8Y2AA
	HP Reversible 13.3 Sleeve	7ZE82AA
Docking	HP USB-C 120W G5 Dock	5TW10AA
	HP USB-C/A 120W G2 Universal Dock	5TW13AA
	HP Thunderbolt 120W G4 Dock	4J0A2AA
	HP Thunderbolt 280W G4 Dock	4J0G4AA
Hub	HP 4K USB-C Multiport Hub	6G842AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adapter	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP HDMI to VGA Adapter	H4F02AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Keyboard/Combo	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 355 Compact Multi-Device BT Keyboard	692S9AA





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

HP 225 Wired Mouse and Keyboard Combo HP 235 Wireless Mouse and Keyboard Combo HP 655 Wireless Keyboard and Mouse Combo HP Wired Desktop 320MK Mouse and Keyboard HP Wireless Rechargeable 950MK Mouse and Keyboard Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	3Z726AA 5B8C0AA#ACJ 286J4AA
HP 225 Wired Mouse and Keyboard Combo HP 235 Wireless Mouse and Keyboard Combo HP 655 Wireless Keyboard and Mouse Combo HP Wired Desktop 320MK Mouse and Keyboard HP Wireless Rechargeable 950MK Mouse and Keyboard Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	286J4AA
HP 235 Wireless Mouse and Keyboard Combo HP 655 Wireless Keyboard and Mouse Combo HP Wired Desktop 320MK Mouse and Keyboard HP Wireless Rechargeable 950MK Mouse and Keyboard Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	
HP 655 Wireless Keyboard and Mouse Combo HP Wired Desktop 320MK Mouse and Keyboard HP Wireless Rechargeable 950MK Mouse and Keyboard Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 358 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	
HP Wired Desktop 320MK Mouse and Keyboard HP Wireless Rechargeable 950MK Mouse and Keyboard Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	1Y4D0AA
Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	4R009AA
Mouse HP 125 USB-A Wired Mouse HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	9SR36AA
HP 128 USB Laser Wired Mouse HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	3M165AA
HP 155 USB-A Wired Mouse HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	265A9AA
HP 235 Wireless 2.4GHz Slim Wireless Mouse HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	265D9AA
HP 320M USB-A Wired Mouse HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	B8B7AA#ACJ
HP 435 Bluetooth 5.0 + Wireless 2.4GHz Multi-Device Wireless Mouse HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	4E407AA
HP 715 Rechargeable Multi-Device Bluetooth 5.0 + Wireless 2.4GHz Bluetooth Mouse HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	9VA80AA
HP 925 Ergonomic Vertical Bluetooth 5.0 + Wireless 2.4GHz Wireless Mouse	3B4Q5AA
-	6E6F0AA
	6H1A5AA
HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
HP USB Premium Wireless Mouse	1JR31AA
HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power HP 45W USB-C LC AC Power Adapter	1MZ01AA
HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
HP 65W GaN USB-C Laptop Charger	600Q7AA
HP 65W USB-C Laptop Charger	671R3AA
HP 65W USB-C LC AC Power Adapter	1P3K6AA
HP 90W 4.5 mm Smart AC Power Adapter	H6Y90AA
Commodity HP USB DVD-Writer EXT ODD	F2B56AA
HP Nano Keyed Cable Lock	1AJ39AA
HP Nano Master Keyed Cable Lock	1AJ40AA
HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
HP Combination Nano Cable Lock	C2B2044
HP Essential Combination Nano Cable Lock	63B28AA



Change Log

Date of change:	Version History:		Description of change:
March 30, 2023	V1 to V2	Added	Battery life and updated At a Glance section
	V2 to V3		

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