Overview

HP EliteBook 630 13.3 inch G9 Notebook PC



Left

- 1. Internal Microphones (2)
- 2. Webcam LED (Optional)
- 3. Camera Shutter (Only available with webcam)
- 4. HD TNR and IR Camera (Optional)
- 5. IR Camera LED (Optional)
- 6. Clickpad
- 1. RJ-45 port icon may vary.

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

Overview



Right

- 1. Power Button Key
- 2. Power Connector
- **3.** Thunderbolt[™] 4 with USB4 Type-C[®] 40Gbps signaling **6.** rate (USB Power Delivery, DisplayPort[™] 1.4)¹
- 1. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4
- **4.** SuperSpeed USB Type-A 5Gbps signaling rate port (Powered port) (USB 3.2 Gen 1)
- 5. HDMI 2.1 Port (Cable not included)
 - Touch Fingerprint Sensor (Select Models)

Overview

AT A GLANCE

- Preinstalled with Windows 11 versions or FreeDOS
- Choice of 12th generation Intel® Core™ i7, i5 and i3 processors
- 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 redesigned quiet and responsive HP Keyboard with the HP Programmable key and backlit options
- Choice of solid state drives up to 1 TB
- Multi-layered security with HP SureStart Gen7¹, HP Privacy Camera, HP Sure View Gen4², HP Wolf Security (Includes HP Sure Sense³ and HP Sure Click⁴), HP Secure Erase⁵, HP Client Security Manager Gen7 (Includes Sure Run Gen5 ⁶, Sure Recover Gen5 ⁷), Touch Fingerprint reader ⁸, and Tamper Lock ⁹
- Supports fast charging (50% in 30 minutes) with no impact on battery recharge cycles¹⁰
- Designed to support HP docking options
- Passed MIL-STD 810G tests¹¹
- Battery life up to 11 hours 15 minutes
- Optimize your video calls with an HD camera and Temporal Noise Reduction that adjusts to the lighting in your environment.
- 1. HP Sure Start Gen7 is available on select HP PCs.
- 2. HP Sure View integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.
- 3. HP Sure Sense is available on select HP PCs and is not available with Windows11 Home.
- 4. HP Sure Click requires Windows 11. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 5. 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™.
- 6. HP Sure Run Gen4 is available on select Windows 11 based HP Pro, Elite and Workstation PCs with select Intel® or AMD processors.
- 7. HP Sure Recover Gen5 is available on select HP PCs and requires Windows 10 and higher and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.
- 8. Sold separately or as an optional feature
- 9. HP Tamper Lock must be enabled by the customer or your administrator.
- 10. HP notebooks up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 11. MIL STD 810H testing is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

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



Technical Specifications

PRODUCT NAME

HP EliteBook 630 13.3 inch G9 Notebook PC

OPERATING SYSTEM

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 10 Pro (available through downgrade rights from Windows 11 Pro) 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 P-	Number of E-	Threads	L3 Cache	Max Turbo Frequency		Base Frequency		Intel SIPP/ vPro® Enterprise	Intel vPro® Essentials
		cores	cores		Cacile	P-	E-	P-	E-		
						cores	cores	cores	cores		
Intel®	10	2	8	12	12MB	4.8	3.6	1.8	1.3	X	
Core™ i7-						GHz	GHz	GHz	GHz		
1265U											
Intel®	10	2	8	12	12MB	4.7	3.5	1.7	1.2		Х
Core™ i7-						GHz	GHz	GHz	GHz		
1255U											
Intel®	10	2	8	12	12MB	4.4	3.3	1.2	1.2	Х	
Core™ i5-						GHz	GHz	GHz	GHz		
1245U											
Intel®	10	2	8	12	12MB	4.4	3.3	1.3	0.9		Х
Core™ i5-						GHz	GHz	GHz	GHz		
1235U											
Intel®	6	2	4	8	10MB	4.4	3.3	1.2	0.9		
Core™ i3-						GHz	GHz	GHz	GHz		
1215U											



- 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 http://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)

Supports

Support HD decode, DX12, HDMI 2.1b 9

- 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.
- 9. HD content required to view HD images.

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 Eye Ease 9,11,12,13

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 9,11

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 ^{9,11}

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 9,11

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 9,11

33.8 cm (13.3") diagonal, HD (1366x768), SVA eDP, anti-glare, WLED, narrow bezel, 250 nits, 45% for HD camera 9.11



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

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

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 HP Sure View.

DOCKING (Sold Separately)

Docking station model #1 HP USB-C Dock G5

Docking station model #2HP USB-C/A Universal Dock G2Docking station model #3HP Thunderbolt Dock G2Docking station model #4HP TB Dock 120W w/AudioDocking station model #5HP TB Dock 230W w/Combo Cable

For additional aftermarket options and docking specs please see page 38.

STORAGE AND DRIVES

Primary M.2 Storage

1 TB PCIe® Gen4x4 NVMe™ M.2 TLC 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™ M.2 SSD 14

256 GB PCIe® Gen4x4 NVMe™ M.2 TLC Self Encrypted OPAL2 Solid State Drive 14

256 GB PCIe® Gen4x4 NVMe™ M.2 TLC single-sided Solid State Drive 14

256 GB PCIe® NVMe™ 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

Memory Slots

2 SODIMM

Both slots are customer accessible / upgradeable DDR4 PC4 SODIMMS (Alder Lake runs at 3200)

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.

NETWORKING/COMMUNICATIONS

WLAN

Intel® AX211 Wi-Fi 6E +Bluetooth® 5.3 M.2 2230 160MHz CNVi World-Wide WLAN ¹⁶
Intel® AX211 Wi-Fi 6E + Bluetooth® 5.3 M.2 2230 vPro 160MHz CNVi World-Wide WLAN ¹⁶

NFC

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

Miracast

Native Miracast Support

Ethernet

Intel® I219-LM 1 Gigabit Network Connection LOM (vPro) ¹⁷ Intel® I219v 1 Gigabit Network Connection LOM (non-vPro) ¹⁷

Wake on WLAN

Support on S3 AC mode only

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. 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

Camera

720p HD camera with Temporal Noise Reduction ⁹
720p HD camera+IR Camera with Temporal Noise Reduction ⁹

9. HD content required to view HD images.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill resistant with optional backlit function 18

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
- 18. Backlit keyboard is an optional feature.



SOFTWARE AND SECURITY

Software

HP Quick Touch

HP Quick Drop 19

myHP

HP Smart Support 20

HP Connection Optimizer

HP Power Manager

HP Hotkey Support

HP Support Assistant 21

HP Notifications

HP Privacy Settings

Buy Microsoft Office (Sold separately)

Manageability Features

HP Manageability Integration Kit Gen4 (download) 22

HP Driver Packs (download)

HP Client Catalog (download)

HP Client Management Script Library (download)

HP Image Assistant (download)

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

HP Wolf Security for Business²³ includes:

HP Sure Click 24

HP Sure Sense 25

HP Sure Run Gen5 26

HP Sure Recover Gen5 27

HP Sure Start Gen7 28

HP Tamper Lock

HP Sure Admin 29

HP Client Security Manager Gen7 30

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

BIOS

HP BIOSphere Gen6 31

HP Secure Erase 32

Absolute Persistence Module 33

HP DriveLock & Automatic DriveLock

BIOS Update via Network

HP Wake on WLAN

HP Fingerprint Sensor 34

Secured-Core PC Enable 35

Security

TPM

Model: Infineon SLB9672VU2.0



Technical Specifications

Version: 15.21 Revision: TPM 2.0

FIPS 140-2 Compliant: Yes

Smartcard Reader

Model number: Alcor AU9560 FIPS 201 Compliant: Yes

IPv6 Support

Yes

FirstNet Certified

No

Is the BIOS on this notebook ISO/IEC 19678:2015 (formerly NIST 800-147) compliant?: Yes

UEFI version: 2.7

Class: 3

- 19. 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.
- 20. HP Smart Support automatically collects the telemetry necessary upon initial boot of the product to deliver device-level configuration data and health insights and is available preinstalled on select products, thru HP Factory Configuration Services; or it can be downloaded. For more information about how to enable HP Smart Support or for download, please visit http://www.hp.com/smart-support.
- 21. HP Support Assistant requires Windows and Internet Access.
- 22. HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.
- 23. 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.
- 24. HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 25. HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.
- 26. HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.
- 27. HP Sure Recover Gen5 is available on select HP PCs and requires Windows 10 and higher and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on PCs with Intel Wi-Fi Module.
- 28. HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher.
- 29. 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.
- 30. HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.
- 31. HP BIOSphere Gen6 features may vary depending on the platform and configuration.
- 32. 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™.
- 33. 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/.
- 34. Fingerprint Reader is an optional feature that must be configured at purchase.



Technical Specifications

35. 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.

POWER

Power Supply

HP Smart 65 W External AC power adapter ³⁶ HP Smart 65 W EM External AC power adapter ³⁶ HP Smart 65 W USB Type-C adapter ³⁶ HP Smart 45 W External AC power adapter ³⁶ HP Smart 45 W USB Type-C adapter ³⁶

Battery

HP Long Life 3-cell, 42.75 Wh Polymer ^{37,38} Compliant with UL 1642 Standard

Power Cord

3-wire plug - 1m ³⁶ 2-wire plug - 1m ³⁶

Battery life

Up to 11 hours 15 minutes with 42whr battery (HP Long Life 3-Cell, 42 Whr Polymer, UMA graphic, Intel U15, display set to 200 nits, 2*4G memory, 256 GB SSD) ³⁹

Battery Weight

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

- 36. Availability may vary by country.
- 37. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 38. 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.
- 39. Windows 10 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 http://www.bapco.com for additional details.



Technical Specifications

WEIGHTS & DIMENSIONS

Product Weight

Starting at 2.82 lb ⁴⁰ Starting at 1.28 kg ⁴⁰

Product Dimensions (W x D x H)

12.08 x 8.2 x 0.62 in 30.69 x 20.84 x 1.59 cm

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

PORTS/SLOTS

- 1 Thunderbolt[™] 4 with USB4[™] Type-C[®] 40 Gbps signaling rate (USB Power Delivery, DisplayPort[™] 1.4)⁴¹
- 2 SuperSpeed USB Type-A 5Gbps signaling rate Port includes 1 Powered port (USB 3.2 Gen 1)
- 1 AC power
- 1 HDMI 2.1 42
- 1 Headphone/microphone combo jack
- 1 RJ-45 43

Expansion Slots

Smart Card Reader (optional)

- 41. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4
- 42. HDMI cable sold separately.
- 43. RJ-45 port icon may vary.



Technical Specifications

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. 44

44. 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.

CERTIFICATION AND COMPLIANCE

Energy Efficiency Compliance: ENERGY STAR® certified
Energy Efficiency Compliance: EPEAT® registered 45
Environmental Specifications: Low halogen 46
Environmental Specifications: TCO 9.0 Certification

45. 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.

46. External power supplies, power cords, cables and peripherals are not Low Halogen. Service parts obtained after purchase may not be Low Halogen.



SYSTEM UNIT

Stand-Alone Power Requirements (AC Power)

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

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))

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

Relative Humidity

Operating 10% to 90% (non-condensing)

5% to 95% Non-operating

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

Shock

40 G, 2 ms, half-sine Operating Non-operating 200 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) 40,000 ft (12,192 m) Non-operating

Planned Industry Standard Certifications

Regulatory Model Number HSN-Q33C UL Yes CSA Yes **FCC Compliance** Yes **ENERGY STAR®**

EPEAT® EPEAT® Gold in the United States 48

Yes⁴⁷

ICES Australia / Yes NZ A-Tick Compliance Yes Yes Japan VCCI Compliance Yes кſ Yes **BSMI** Yes **CE Marking Compliance** Yes **BNCI or BELUS** Yes CIT Yes GOST Yes Saudi Arabian Compliance (ICCP) Yes **SABS** Yes



UKRSERTCOMPUTER

Yes

47. All configurations of the HP Elitebook 630 G9 are Energy Star® certified and identified as HP Elitebook 630 G9 Energy Star on HP websites and on http://ww.energystar.gov.

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

DISPLAYS

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

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

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)
 299.060 x 185.550 (max)

 Active Area
 293.760 x 165.240 (typ)

Weight 210 (max)
Diagonal Size 13.3

Thickness 2.2 / 3.9 (max)
Interface eDP 1.3
Surface Treatment Anti-Glare
Touch Enabled No

Contrast Ratio1500:1 (typ)Refresh Rate60 HzBrightness1000 nits

Pixel Resolution - Format 1920 x1080 (FHD)

BacklightWLEDPixel ResolutionRGBColor Gamut Coverage\$RGB 100%

Color Depth 8

Viewing Angle UWVA 85/85/85

Low Blue Light Yes

Power Consumption (W, EBL@

150nits max/ 200nits max) N/A

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) 300.56 x 187.77 mm (max) (w/ PCB & w/o bracket)

Active Area 293.76 x 165.24 mm (typ.)

Weight 260 g (max)

Diagonal Size 13.3 inch

Thickness 3.0 mm (max)

Interface eDP 1.2 (2 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 nitsPixel Resolution - FormatRGB Stripe

Backlight LED



Pixel ResolutionRGB StripeColor Gamut Coverage45%Color Depth6 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 45percent cg 250nits eDP slim Touch on Panel NWBZ

 Outline Dimensions (W x H)
 300.56 x 187.77 mm (max)

 Active Area
 293.76 x 165.24 mm (typ.)

 Weight
 268 α (max)

Weight 268 g (max)

Diagonal Size 13.3 inch

Thickness 3.2 mm (max)
Interface eDP 1.2

Surface Treatment Anti-Glare On-cell

Touch Enabled Yes¹

Contrast Ratio600:1 (typ.)Refresh Rate60 HzBrightness250 nits1

Pixel Resolution - Format 1920 x 1080 (FHD)

BacklightLEDPixel ResolutionRGB StripeColor Gamut Coverage45%Color Depth6 bits

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)
 299.06 x 185.54 mm (max)

 Active Area
 293.76 x 165.24 mm (typ.)

Weight170 g (max)Diagonal Size13.3 inchThickness2.0 mm (max)

Interface eDP 1.4 + PSR2 (2 lane)

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1200:1 (typ.)Refresh Rate60 HzBrightness400 nits

Pixel Resolution - Format 1920 x 1080 (FHD)

Backlight LED



Pixel ResolutionRGB StripeColor Gamut Coverage72%Color Depth8 bits

Viewing Angle UWVA 85/85/85

Low Blue Light No

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

1.09 (max)/ 1.30 (max)

1.95 (max) / 2.37 (max)

Panel LCD 13.3-in HD (1366x768) Anti-Glare WLED SVA 45percent cg 250nits eDP NWBZ ultraslim Outline Dimensions (W x H) 300.56 x 187.77 mm (max) (w/ PCB & w/o bracket)

Active Area 293.83 x 165.20 mm (typ.)

Weight 260 g (max)

Diagonal Size 13.3 inch

Thickness 3.0 mm (max)

Interface eDP 1.2 (1 lane)

Surface Treatment Anti-Glare

Touch Enabled No

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

Pixel Resolution - Format 1366 x 768 (HD)

BacklightLEDPixel ResolutionRGB StripeColor Gamut CoverageNTSC 45%Color Depth6 bits

Viewing Angle SVA 45/45/15/35

Low Blue Light No

Power Consumption (W, EBL@

150nits max/ 200nits 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-4x4 NVMe Three Layer Cell

Drive WeightM.2 2280Rotation speed256 GBCache BufferTLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 0.02 lb (10 g)

 Transfer Rate
 PCIe NVMe Gen4

 Seek Time
 Up to 6,400 MB/s

 Logical Blocks
 Up to 2,700 MB/s

 Operating Temperature
 500,118,192

Security Features 32° to 158°F (0° to 70°C) [ambient temp]

Features Pyrite 2.0; TRIM; L1.2

256GB PCIe-4x4 2280 NVME Self Encrypted OPAL2 Three Layer Cell Solid State Drive Drive WeightM.2 2280Rotation speed256GBCache BufferTLCNAND Type/SizeNA

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 0.02 lb (10 g)

 Transfer Rate
 PCIe NVMe Gen4

Seek Time 6400 Logical Blocks 2700 Operating Temperature 500,118,192

Security Features 32° to 158°F (0° to 70°C) [ambient temp]

Features ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

SSD 512GB 2280 PCIe NVMe Value

Drive WeightM.2 2280Rotation speed512GBCache BufferValue

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Interface 0.02 lb (10 g)
Transfer Rate PCIe NVMe Gen3
Seek Time Up to 3500 MB/s
Logical Blocks up to 3000 MB/s
Operating Temperature 1,000,215,216

Security Features 32° to 158°F (0° to 70°C) [ambient temp]

Features TRIM; L1.2



SSD 512GB 2280 PCIe-4x4 NVMe Three Layer Cell Drive WeightM.2 2280Rotation speed512GBCache BufferTLC

 Height
 0.09 in (2.3 mm)

 Width
 0.87 in (22 mm)

 Interface
 0.02 lb (10 g)

 Transfer Rate
 PCIe NVMe Gen4

 Seek Time
 Up to 6,600 MB/s

 Logical Blocks
 Up to 5,100 MB/s

 Operating Temperature
 1,000,215,216

Security Features 32° to 158°F (0° to 70°C) [ambient temp]

Features Pyrite 2.0; TRIM; L1.2

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

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Weight 0.02 lb (10 g)
Interface PCIe NVMe Gen4
Maximum Sequential Read Up to 6,600 MB/s
Maximum Sequential Write Up to 5,100 MB/s
Logical Blocks 1,000,215,216

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp] **Features** ATA Security (Option); TCG Opal 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

Height 0.09 in (2.3 mm)
Width 0.87 in (22 mm)
Weight 0.02 lb (10 g)
Interface PCIe NVMe Gen4
Maximum Sequential Read Up to 7,100 MB/s
Maximum Sequential Write Up to 5,200 MB/s
Logical Blocks 2,000,409,264

Operating Temperature 32° to 158°F (0° to 70°C) [ambient temp]

Features Pyrite 2.0; TRIM; L1.2

NETWORKING/COMMUNICATIONS

Intel® AX211 Wi-Fi 6E + Wireless LAN Standards IEEE 802.11a
Bluetooth® 5.3 M.2 IEEE 802.11b
160MHz CNVi WW WLAN IEEE 802.11g
vPro¹ IEEE 802.11n

IEEE 802.11n
IEEE 802.11ac
IEEE 802.11d
IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k
IEEE 802.11r
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

Security³ •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 certificationWPA3 certificationIEEE 802.11iWAPI

Network Architecture Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power² • 802.11b: +17dBm minimum



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

• 802.11n HT20(2.4GHz): +14dBm minimum

• 802.11n HT40(2.4GHz) : +13dBm minimum

• 802.11n HT20(5GHz): +14dBm minimum

• 802.11n HT40(5GHz): +13dBm minimum

• 802.11ac VHT80(5GHz): +10dBm minimum

802.11ac VHT160(5GHz): +10dBm minimum

• 802.11ax HE40(2.4GHz): +12dBm minimum

• 802.11ax HE80(5GHz): +10dBm minimum

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

Power Consumption •Transmit mode2.0 W

•Receive mode1.6 W

Idle mode (PSP)180 mW(WLAN Associated)
 Idle mode50 mW(WLAN unassociated)

Connected Standby 10mW

Radio disabled8 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/g, 6Mbps: -86dBm maximum
 802.11a/g, 54Mbps: -72dBm maximum

• 802.11n, MCS07 : -67dBm maximum

• 802.11n, MCS15 : -64dBm maximum

• 802.11ac, MCS0(VHT80) : -84dBm maximum

• 802.11ac, MCS9(VHT80) : -59dBm maximum

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

802.11ax, MCS11(HE40): -57dBm maximum

• 802.11ax, MCS11(HE80): -54dBm maximum

• 802.11ax, MCS11(HE160): -53.5dBm maximum

Antenna type High efficiency antenna with spatial diversity, 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)

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 Technology

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.

- 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. 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® 5.3 M.2 160MHz CNVi WW WLAN

non-vPro1

Wireless LAN Standards IEEE 802.11a

IEEE 802.11b

IEEE 802.11n
IEEE 802.11ac

IEEE 802.11ax
IEEE 802.11d
IEEE 802.11e
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k

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802.11ac VHT150(5GHz): +10dBm minimum

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802.11ac, MCS9(VHT80): -59dBm maximum
802.11ac, MCS9(VHT160): -58.5dBm maximum
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Operating 0 to 10,000 ft (3,048 m)

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



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- 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).

Near Field
Communications
Controller (optional)

Dimensions (L x W x H)

NFC RF standards

Chipset

Module 17 mm by 10 mm by 2.0 mm

NPC300

System interface

I2C

ISO/IEC 14443 A ISO/IEC 14443 B

ISO/IEC 15693 ISO/IEC 18092

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support Reader (PCD-VCD)

Tag Type 1, Type 2, Type3 and Type 4, NFCIP-1 and NFCIP-2

Mode(1)

ISO/IEC 14443 B ISO/IEC 15693

ISO/IEC 14443 A

MIFARE 1K MIFARE 4K MIFARE DESFire

FeliCa

Jewel and Topaz cards

Card Emulation (PICC-

ISO/IEC 14443 A

VICC) Mode(1) ISO/IEC 14443 B and B'

> **MIFARE** FeliCa

Frequency 13.56 MHz



NFC Modes Supported Raw RF Data Rates Operating temperature Reader/Writer, Peer-to-Peer 106, 212, 424, 848 kbps 0°C to 70°C

Storage temperature

-20°C to 125°C 10-90% operating

Humidity

5-95% non-operating 2.97 to 5.5 Volts

Supply Operating

voltage

1.8V or 3.3V

I/O Voltage Dimensions (L x W x H)

Module 17 mm by 10 mm by 2.0 mm

Power Consumption

(Booster enable, VBAT= 3.3V, VCC_BOOST = 5V)

Power Consumption, Typical

Polling Detected Test Tag Type 7.3 mA 32.9 mA

1

Detected Test Tag Type 70.7 mA

2

Detected Test Tag Type 79.2 mA

3

Detected Test Tag Type

64.9 mA

4

Antenna

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

external to module.

Intel® I219-LM 1 Gigabit Network Connection LOM (vPro) **Ethernet Features**

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

Power Management

ACPI compliant - multiple power modes

Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

Performance Features

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

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

Interface

NIC Device Driver Name

Intel(R) Ethernet Connection (13) I219-LM

PCI(Intel proprietary) + SMBus



Intel® 1219v 1 Gigabit Network Connection LOM (non-vPro) **Ethernet Features**

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

Power Management ACPI compliant – multiple power modes

Situation-sensitive features reduce power consumption

Advanced link down power saving for reducing link down power

consumption

Performance Features 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

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

Interface PCI (Intel proprietary) + SMBus

NIC Device Driver Name Intel(R) Ethernet Connection I219-V



POWER

AC Adapter 45 Watt nPFC Standard USB type C Straight 1.8m **Dimensions** 94.0 mm x 40.0 mm x 26.5 mm

Weight 192.5g +/-10% **Input** 100~240 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 to 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output

Output power 5V/15W

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

DC output 5V/9V/12V/15V Hold-up time 5ms at 115 Vac input

Output current limit <5.0A
Connector USB Type-C

Environmental Design

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

temperature

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

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Eg.

Certifications *CE Mark - full compliance with LVD and EMC directives

*Worldwide safety standards - IEC60950, EN60950, UL60950, 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.

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

 Dimensions
 95 x 45 x 26.5 mm

 Weight
 unit: 200g +/- 10g

 Input
 100~240 VAC

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

Input frequency range 47 ~ 63 Hz

Input AC current Max. 1.4 A at 90 Vac

Output

Output power 45W **DC output** 19.5V

Hold-up time 5ms at 115 Vac input



Output current limit <8.0A

Connector 4.5mm Barrel Type

Environmental Design

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

temperature

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

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Eg:

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* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1,

Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Standard USB type C Straight 1.8m

 Dimensions
 90.0 x 51 x 28.5mm

 Weight
 unit: 250g +/- 10g

 Input
 100~240 VAC

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 1.6 A at 90 VAC and maximum load

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

Environmental Design

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

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Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

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

 Dimensions
 102 x 55 x 30mm

 Weight
 unit: 250g +/- 10g

 Input
 100~240 VAC

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

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 5ms at 115 Vac input

Output current limit <11.0A

Connector 4.5mm Barrel Type

Environmental Design

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)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Eq:

Certifications *CE Mark - full compliance with LVD and EMC directives

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Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.



AC Adapter 65 Watt Smart nPFC Standard Barrel 4.5mm Right Angle 1.8m $\begin{array}{ll} \textbf{Dimensions} & 90 \times 51 \times 28.5 \text{mm} \\ \textbf{Weight} & \text{Unit: } 230 \text{g +/-} 10 \% \\ \textbf{Input} & 100 \sim 240 \text{ VAC} \end{array}$

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

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 5 ms at 115 Vac input

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Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

AC Adapter 65 Watt nPFC Slim USB type C Straight 1.8m

 Dimensions
 88 x 53.5 x 21 mm

 Weight
 unit: 220g +/- 10g

 Input
 100~240 VAC

Input Efficiency 81.5% min at 115 Vac/ 230Vac @ 5V/3A

86.7% min at 115 Vac/ 230Vac @ 9V/3A 88% min at 115 Vac/ 230Vac @ 12V/5A 89% min at 115 Vac/ 230Vac @ 15V/4.33A 89% min at 115 Vac/ 230Vac @ 20V/3.25A

Input frequency range 47 ~ 63 Hz

Input AC current 1.7 A at 90 VAC and maximum load

Output

Output power 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

Environmental Design



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)

Humidity5% to 95%Storage Humidity5% to 95%

EMI and Safety Eg:

Certifications *CE Mark - full compliance with LVD and EMC directives

* Worldwide safety standards - IEC60950-1 and/or IEC62368-1, EN60950-1 and/or EN62368-1, UL60950-1 and/or UL62368-1,

Class1, SELV;

Agency approvals - C-UL-US, NORDICS, DENAN, EN55032 Class B, FCC

Class B, CISPR32 Class B, CCC, NOM-001 NYCE.

* MTBF - over 200,000 hours at 25°C ambient condition.

RH 42Whr¹ Long Life Polymer Fast Charge² 3 cell Battery **Dimensions (H x W x L)** 6.2 x 76.25 x 249.50 mm (0.244 x 3.002 x 9.823 inch)

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 capacity 42.75Wh

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 Follow Product Spec.

Optional Travel Battery No.

Available

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.

2. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter with a minimum capacity of 65 watts is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.



AUDIO

HD Stereo Codec Realtek ALC3247-CG

Audio I/O Ports Headset: CTIA only and Headphone-out

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.

Following MSFT Behavior

Sampling DAC:44.1k/48kHz

ADC:48kHz

Wavetable Syntheses NA

Analog Audio Support 3.5mm Headset: CTIA only and Headphone-out

of Channels on Line-Out NA
Internal Speaker Yes

FINGERPRINT READER

Sensor vendorElan efsa80STSensor typeCapacitiveDPI resolution508 dpiScan area80*80 pixels

False Rejection Rate <3%
False Acceptance Rate 1/100K
Mobile Voltage Operation 2.7V to 3.6V

Operating Temperature $-4-175^{\circ}\text{F} (-20^{\circ} \sim +80^{\circ}\text{C})$

Current Consumption

Image 50mA peak

Low Latency Wait For

Finger 900uA
Capture Rate 30 frame/sec
ESD Resistance +15KV

Detection Matrix 80*80 pixels/ 508 dpi / 4*4mm sensor area



Technical Specifications

ENVIRONMENTAL DATA

ENVIRONMENTAL DATA						
Eco-Label Certifications &	This product has received or is in the process of being certified to the following approvals and may					
declarations	be labeled with one or n	nore of these marks:				
	IT ECO declaration					
	US ENERGY STA	NR®				
	 US Federal Ene 	rgy Management Program (I	FEMP)			
	EPEAT [®] Gold re-	gistered in the United States	s. See http://www.epeat.net for registration			
	status in your o	=				
	 TCO Certified 					
	China Energy Co	onservation Program (CECP)				
	China State Env	vironmental Protection Adm	inistration (SEPA)			
	Taiwan Green N	1ark				
	Korea Eco-labe	l				
	Japan PC Green					
Sustainable Impact	Ocean-bound plastic in					
Specifications	• 10% post-consumer re					
_	• Low halogen					
	_	gated cushions are 100% su	stainably sourced and recyclable			
		=	tainably sourced and recyclable			
	Bulk packaging availat		•			
System Configuration	The configuration used for the Energy Consumption and Declared Noise Emissions data for the					
	Notebook model is based on a "Typically Configured Notebook".					
Energy Consumption						
(in accordance with US						
ENERGY STAR® test						
method)	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Sort						
idle)	5.06 W	5.29 W	5.34 W			
Normal Operation (Long						
idle)	0.95 W	1.03 W	0.93 W			
Sleep	0.95 W	1.03 W	0.93 W			
Off	0.28 W	0.31 W	0.28 W			
	NOTE:					
	Energy efficiency data listed is for an ENERGY STAR® compliant product if offered within the model					
	family. HP computers marked with the ENERGY STAR® Logo are compliant with the applicable U.S.					
	Environmental Protection Agency (EPA) ENERGY STAR® specifications for computers. If a model					
	family does not offer ENERGY STAR® compliant configurations, then energy efficiency data listed					
	is for a typically configured PC featuring a hard disk drive, a high efficiency power supply, and a					
	Microsoft Windows® operating system.					
Heat Dissipation*	115VAC, 60Hz	230VAC, 50Hz	100VAC, 50Hz			
Normal Operation (Short idle)	17.3 BTU/hr	18.1 BTU/hr	17.3 BTU/hr			
Normal Operation (Long						
idle)	3.2 BTU/hr	3.5 BTU/hr	3.2 BTU/hr			
Class	3.2 BTU/hr	4.7 BTU/hr	3.2 BTU/hr			
Sleep	3.2 010/111	4.7 DTO/III	J.E D10/111			





Off	1 BTU/hr	1.1 B	TU/hr		1 BTU/hr	
	* NOTE: Heat dissipation is calculated based on the measured watts, assuming the service level is attained for one hour.					
Declared Noise Emissions	Sound	d Power		Sound Pr	ressure	
(in accordance with		, bels)		(L _{pAm} , de		
ISO 7779 and ISO 9296)	LWAC	, 0013/		(Ерип, ас	cibcis)	
Typically Configured – Idle	Ž	2.6		13.	.2	
Fixed Disk – Random writes	3	3.5		32.7		
Optical Drive — Sequential	3	3.5		32.	7	
reads						
Longevity and Upgrading	-	e upgraded, possibl omponents containe	-	useful life by sev	veral years. Upgradeable	
	of production.	_			p to " <mark>5"</mark> years after the end	
Additional Information	 This product is in compliance with the Restrictions of Hazardous Substances (RoHS) directive - 2011/65/EC. This HP product is designed to comply with the Waste Electrical and Electronic Equipment (WEEE) Directive – 2002/96/EC. This product is in compliance with California Proposition 65 (State of California; Safe Drinking Water and Toxic Enforcement Act of 1986). This product is in compliance with the IEEE 1680 (EPEAT) standard at the Gold level, see www.epeat.net Plastics parts weighing over 25 grams used in the product are marked per ISO11469 and ISO1043. This product is 92,8% recycle-able when properly disposed of at end of life. 					
Packaging Materials	External: PAI	PER/Corrugated			281 g	
	PAI	PER/Molded Pulp			144 g	
	Internal: PLA	ASTIC/Polyethylene l	ow density - L[PE	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.					
RoHS Compliance	HP Inc. complies fully with materials regulations. We were among the first companies to extend the restrictions in the European Union (EU) Restriction of Hazardous Substances (RoHS) Directive to our products worldwide through the HP GSE. HP has contributed to the development of related legislation in Europe, as well as China, India, and Vietnam. We believe the RoHS directive and similar laws play an important role in promoting industry-wide elimination of substances of concern. We have supported the inclusion of additional substances—including PVC, BFRs, and certain phthalates—in future RoHS legislation that pertains to electrical and electronics products. We met our voluntary objective to achieve worldwide compliance with the new EU RoHS requirements for virtually all relevant products by July 2013, and we will continue to extend the scope of the commitment to include further restricted substances as regulations continue to evolve.					





	To obtain a copy of the HP RoHS Compliance Statement, see ¡Error! Referencia de hipervínculo
	no válida. HP RoHS position statement
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 (DBP) - Diisobutyl phthalate (DBP) - 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 Oxides (PBBOs) - 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)
Danka ali a Par	
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	For more information about HP's commitment to the environment:
Environmental	
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)

DOCKING (Sold Separately)

Docking station model #1

HP USB-C Dock G5

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dual 5K@ 30Hz + 1 4K UHD (multi-function mode) 5120x2880

Dock Connectors 1xHDMI. 2xDP

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

mode.

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

4K UHD@ 30 Hz on HDMI in Multi-function mode

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

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

Docking station model #2

HP USB-C/A Universal Dock G2

Total number of supported displays

(incl. the notebook display) 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

Docking station model #3

HP Thunderbolt Dock G2

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

Max. resolutions supported

Dual 4K @30Hz or dual 4K UHD @ 60Hz is supported

Dual 8K@ 60Hz for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode

2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode

Dock Connectors
Technical limitations

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

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

multi-function mode is

Non-Thunderbolt hosts:

(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 multifunction mode the maximum resolution for (3) displays is (2) 5K single cable

@ 30Hz + (1) 4K UHD @ 30Hz.

Docking station model #4

Total number of supported displays

(incl. the notebook display)

HP TB Dock 120W w/Audio

4



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

Max. resolutions supported

Dock Connectors
Technical limitations

Dual 4K @30Hz or dual 4K UHD @ 60Hz is supported

Dual 8K@ 60Hz for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode

2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode

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 multifunction mode the maximum resolution for (3) displays is (2) 5K single cable

@ 30Hz + (1) 4K UHD @ 30Hz.

Docking station model #5

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Dock Connectors

Technical limitations

HP TB Dock 230W w/Combo Cable

4

Dual 4K @30Hz or dual 4K UHD @ 60Hz is supported

Dual 8K@ 60Hz for TB hosts or USB-C hosts DP 1.4 with DSC in high res mode

2xDP, 1xVGA, 1xTB, 1xUSB-C alt-mode

Thunderbolt Hosts:

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

Thunderbolt host.

 ${\it Maximum resolution possible is dual 8K displays @ 60Hz running Thunderbolt}$

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 multifunction mode the maximum resolution for (3) displays is (2) 5K single cable

@ 30Hz + (1) 4K UHD @ 30Hz.



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

Category	Description	Part Number
Audio/Video	HP Wired USB-A Stereo Headset	428K6AA
	HP Wired 3.5mm Stereo Headset	428K7AA
Cases	HP Business 14.1 Sleeve	2UW01AA
	HP Business Slim 17.3 Top Load	2UW02AA
	HP Executive 14.1 Tote	6KD10AA
	HP Executive 15.6 Backpack	6KD07AA
	HP Executive 15.6 Top Load	6KD06AA
	HP Executive 17.3 Backpack	6KD05AA
	HP Executive 17.3 Top Load	6KD08AA
	HP Executive Leather 15.6 Top Load	6KD09AA
	HP Executive Slim 14.1 Top Load	6KD04AA
	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,2E6V0AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 17.3 Laptop Backpack	3E2U5AA
	HP Renew Business 17.3 Laptop Bag	3E2U6AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Reversible 13.3 Sleeve	7ZE82A6
Docking	HP USB-C Dock G5	5TW10AA
	HP USB-C/A Universal Dock G2	5TW13AA
	HP Thunderbolt Dock 120W G2	2UK27AA
	HP TB Dock 120W w/Audio	3YE87AA
	HP TB Dock w/Combo Cable (230W)	3TR87AA
	HP Thunderbolt Dock 120W G4	4J0A2AA
	HP Thunderbolt 280W Dock G4 w/Combo Cable	4JOG4AA
Hub	HP USB-C Mini Dock	1PM64AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C Travel Dock G2	7PJ38AA
	HP USB-C to USB-A Hub	Z6A00AA
Adapter	HP HDMI to DVI Adapter	F5A28AA
	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





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

Keyboard/Combo	HP 975 USB+BT Dual-Mode Wireless Keyboard	3Z726AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 125 WD USB Keyboard	266C9AA
	HP 320K WD USB Keyboard	9SR37AA
	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 225 Wired Mouse and Keyboard Combo	286J4AA
	HP 235 Wireless Mouse and Keyboard Combo	1Y4D0AA
	HP Slim Wireless Keyboard and Mouse	T6L04AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
Mouse	HP USB Premium Wireless Mouse	1JR31AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	HP 125 USB-A Wired Mouse	265A9AA
	HP 128 USB Laser Wired Mouse	265D9AA
	HP 320M USB-A Wired Mouse	9VA80AA
	HP Creator USB-A+Bluetooth 935 Wireless Mouse Black	1D0K8AA
	HP USB-A+Bluetooth Multi-Device 635 Wireless Mouse Black	1D0K2AA
	HP USB-A+Bluetooth Travel Bluetooth Mouse	6SP30AA
Power	HP 65W USB-C Auto Chevy AC Power Adapter	5TQ76AA
	HP 45W 4.5 mm Smart AC Power Adapter	H6Y88AA
	HP 45W USB-C G2 Zeus AC Power Adapter	1HE07AA
	HP 45W USB-C LC Dali AC Power Adapter	1MZ01AA
	HP 65W 4.5 mm LC Smart non-EM India Only AC Power Adapter	3FF84AA#ACJ
	HP 65W 4.5 mm Smart AC Power Adapter	H6Y89AA
	HP 65W 4.5 mm wDongle 7.4 mm Slim AC Power Adapter	H6Y82AA
	HP 65W USB-C Hades AC Power Adapter	1HE08AA
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



Summary of Changes

Date of change:	Version History:	Updated	Description of change:
April 4, 2022	V1 to V2	Added	Environmental Data
April 11,2022	V2 to V3	Added	Reference for USB ports
May 13, 2022	V3 to V4	Updated	Battery Life
June 6, 2022	V4 to V5	Added	RJ-45 disclaimer in overview and ports section; Manageability disclaimer
July 20, 2022	V5 to V6	Added	Input value in Power section
August 25, 2022	V6 to V7	Updated	Energy Star disclaimer in System Unit section
October 19, 2022	V7 to V8	Updated	Bluetooth version
November 4, 2022	V8 to V9	Updated	HDMI port
December 7, 2022	V9 to V10	Updated	Windows OS
December 19, 2022	V10 to V11	Updated	Battery Life section
	V11 to V12		

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