Overview

HP EliteBook 835 13 inch G11 Notebook PC

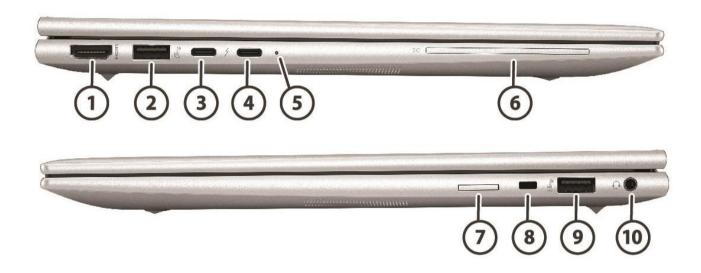


Front

- 1. Internal Microphone (2)
- 2. Webcam LED
- 3. Webcam

- 4. Camera Shutter
- 5. Touchpad

Overview



Sides

- 1. HDMI 2.1
- **2.** Super Speed USB Type-A 5Gbps signaling rate Power **8.** charging
- 3. Thunderbolt[™] 4 USB4[™] Type-C[®] 40 Gbps USB Power 9. Delivery DisplayPort[™] 1.4 ¹
- **4.** Thunderbolt[™] 4 USB4[™] Type-C[®] 40 Gbps USB Power **10.** Delivery DisplayPort[™] 1.4 ¹
- 5. Power Indicator LED
- **6.** Smart Card Reader (Integrated)

- 7. Nano SIM card slot (Integrated)
- **8.** Security lock slot (Integrated)
 - Super Speed USB Type-A 5Gbps signaling rate Power charging
 - Headphone/mic combo jack
- 1. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.

PRODUCT NAME

HP EliteBook 835 13 inch G11 Notebook PC

OPERATING SYSTEMS

Preinstalled Windows 11 Home - HP recommends Windows 11 Pro for business ¹

Windows 11 Home Single Language - HP recommends Windows 11 Pro for business 1

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

Agreement) ¹
Windows 11 Pro ¹

Windows 11 Pro Education 1

FreeDOS

1. Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows is automatically updated and enabled. High speed internet and Microsoft account required. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

PROCESSORS

Processor 2,3,4,5,6	Cores	Threads	L3 Cache	Max boast Frequency ⁵	Base Frequency	Pro
AMD Ryzen™ 7 PRO 8840U	8 cores	16	16 MB	5.10 GHz	3.30 GHz	х
AMD Ryzen™ 7 8840U	8 cores	16	16 MB	5.10 GHz	3.30 GHz	
AMD Ryzen™ 5 PRO 8540U	6 cores	12	16 MB	4.90 GHz	3.20 GHz	х
AMD Ryzen™ 5 8540U	6 cores	12	16 MB	4.90 GHz	3.20 GHz	
AMD Ryzen™ 3 8440U	4 cores	8	8 MB	4.70 GHz	3.00 GHz	

Processor Family

AMD Ryzen™ 7 PRO processor

AMD Ryzen™ 7 processor

AMD Ryzen™ 5 PRO processor

AMD Ryzen™ 5 processor

AMD Ryzen™ 3 processor

- 2. Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. AMD's numbering is not a measurement of clock speed.
- 3. Processor speed denotes maximum performance mode; processors will run at lower speeds in battery optimization mode.



- 4. Max Boost clock frequency performance varies depending on hardware, software and overall system configuration.
- 5. In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
- 6. Features and software that require a NPU may require software purchase, subscription or enablement by a software or platform provider, and third party software may have specific configuration or compatibility requirements. Performance varies by use, configuration, and other factors

GRAPHICS

Integrated

AMD Radeon™ Graphics

Supports

UMA: Support HDMI 2.1 7

7. HDMI cable sold separately

DISPLAY

Non-Touch

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED + Low Blue Light, 1000 nits, sRGB 100%, HP Sure View reflect integrated privacy screen ^{8, 9, 10,11}

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED + Low Blue Light, 400 nits, low power, sRGB 100% ^{8, 9, 11}

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), Bent, LCD, UWVA, anti-glare, WLED, 300 nits, NTSC 45% 8, 9, 11

Touch

33.8 cm (13.3") diagonal, WUXGA (1920 x 1200), Bent, LCD, touch, UWVA, anti-glare, WLED, 300 nits, NTSC 45% 8,9,11

Display Size (Diagonal)

33.8 cm (13.3")

- 8. HD content required to view HD images.
- 9. Resolutions are dependent upon monitor capability, and resolution and color depth settings.
- 10. HP Sure View Reflect available for configuration until Summer/Fall 2024; Sure View 5 available thereafter.
- 11. Actual brightness will be lower with touchscreen or Sure View.

DOCKING (Sold Separately)

Docking station model #1 HP Thunderbolt™ 120W G4 Dock

Docking station model #2 HP USB-C Dock G5

Docking station model #3HP USB-C G5 Essential DockDocking station model #4HP USB-C/A Universal Dock G2

For additional aftermarket options and docking specs please see page .37



STORAGE AND DRIVES

Primary Storage

2 TB PCIe $^{\odot}$ Gen4x4 NVMe $^{\rm TM}$ SSD Three Layer Cell $^{\rm 12}$

1 TB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell 12

1 TB PCIe® NVMe™ SSD Value 12

512 GB PCIe® Gen4x4 NVMe™ Self Encrypted OPAL2 SSD Three Layer Cell 12

512 GB PCIe® Gen4x4 NVMe™ SSD Three Layer Cell 12

512 GB PCIe® NVMe™ SSD Value 12

256 GB PCIe® NVMe™ Self Encrypted OPAL2 SSD Value 12

256 GB PCIe® NVMe™ SSD Value 12

12. For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30GB of disk is reserved for system recovery software.

MEMORY

Maximum Memory

32 GB LPDDR5x-7500 MT/s RAM

Memory

32 GB LPDDR5x-7500 MT/s RAM 16 GB LPDDR5x-7500 MT/s RAM 8GB LPDDR5-6400 MT/s RAM

Memory Slots

Memory soldered down System runs at 6400 Supports Dual Channel Memory



Technical Specifications

NETWORKING/COMMUNICATIONS

WLAN

Realtek 8852CE Wi-Fi 6E Bluetooth® 5.3 wireless card WLAN ¹⁴
Mediatek RZ616 Wi-Fi 6E Bluetooth® 5.3 wireless card AIM-T WLAN ¹⁴

WWAN

HP 5G Sub-6 Cat 19 WWAN eSIM ^{15, 16} HP 4G LTE-A Pro Cat16 WWAN eSIM ¹⁵

LPWAN

Qualcomm® 9205 LTE-M (CAT-M1 fSVC) (no Internet)17

NFC

NFC NXP NPC300 18

Miracast

Native Miracast Support 19

- 14. 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.
- 15. WWAN module is an optional feature, requires factory configuration and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products, in all regions.
- 16. 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.
- 17. Cat M1 LPWAN (Mobile Narrowband) cards support select platforms with the HP Protect & Trace with Wolf Connect service, but do not support mobile broadband/Internet use.
- 18. Sold separately or as an optional feature.
- 19. Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.



AUDIO/MULTIMEDIA

Audio

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

Speaker Power

1W/8ohm per speaker

Camera

5MP+Infrared camera ¹⁸ 5MP camera ¹⁸

Sensors

Ambient Light Sensor Adaptive Color Sensor Hall Effect Sensor Thermal Sensor HP Tamper Lock ²⁰ Fingerprint Sensor

- 18. Sold separately or as an optional feature.
- 20. HP Tamper Lock must be enabled by the customer or your administrator.

KEYBOARDS/POINTING DEVICES/BUTTONS & FUNCTION KEYS

Keyboard

HP Premium Keyboard, spill-resistant, Privacy, Backlit, Durakey keyboard. ²¹ HP Premium Keyboard, spill-resistant, Backlit, Durakey keyboard. ²¹ HP Premium Keyboard, spill-resistant, Durakey keyboard.

Pointing Device

Clickpad with multi-touch gesture support Microsoft Precision Touchpad Default Gestures Support

Function Keys

ESC: System Information

- F1 Display Switching
- F2 Blank or Privacy
- F3 Brightness Down
- F4 Brightness Up
- F5 Audio Mute
- F6 Volume Down
- F7 Volume Up
- F8 Mic Mute
- F9 Blank or Backlit Toggle
- F10 Insert



F11 - Airplane Mode

F12 - HP Command Center

Power Button (with LED)

Delete

Home

End

Microsoft Copilot 22

Hidden Function Keys

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

21. Backlit keyboard is an optional feature.

22. Requires Windows 11 and an NPU. Timing of feature delivery and availability varies by market and device. Requires Microsoft account to log in. Where Copilot in Windows is not available, the Copilot key will lead to the Bing search engine. See http://aka.ms/WindowsAlFeatures

SOFTWARE AND SECURITY

Software

Adobe Offer²³

Bing Search for IE11

Buy Microsoft Office (Sold separately)

HP Connection Optimizer

HP Easy Clean²⁴

HP Easy Clean Keyboard Driver

HP Hotkey Support

HP Mac Address Manager

HP Notifications

HP PC Hardware Diagnostics UEFI

HP PC Hardware Diagnostics Windows

HP Power Manager with Battery Health Manager²⁵

HP Privacy Settings

HP Services Scan 26

HP Smart Support ²⁷

HP Support Assistant 28

HSA Fusion for Commercial

HSA Telemetry for Commercial

Miro Offer 29

M_VHP³⁰

Poly Lens³¹

Manageability Features

HP Client Catalog (download)32

HP Client Management Script Library (download)33

HP Cloud Recovery³⁴

HP Connect for Microsoft Endpoint Manager³⁵

HP Driver Packs (download)36

HP Image Assistant (download)³⁷



HP Manageability Integration Kit (download) 38 HP Patch Assistant (download) 39

Security Features

Secured-Core PC Enable 40

Windows Hello Enhanced Sign-In Security (ESS)

HP Wolf Security for Business which includes:41

HP Sure Admin 42

HP Sure Click 43

HP Sure Recover 44

HP Sure Run 45

HP Sure Sense

HP Sure Start 46

HP Tamper Lock

Security TPM

Model: Nuvoton NPCT760HABYX

TCG TPM 2.0 Version: 7.2.3.1

FIPS 140-2 Compliant: Yes

Model: Infineon SLB9672VU2.0 FW15.23

TCG TPM 2.0 Version: 15.23

FIPS 140-2 Compliant: Yes

BIOS

Absolute Persistence Module ⁴⁷
BIOS Update via Network
HP BIOSphere Gen6 ⁴⁸
HP DriveLock & Automatic DriveLock
HP Fingerprint Sensor ⁴⁹
HP Secure Erase ⁵⁰
HP Wake on WLAN

Smartcard Reader

Model number: Alcorlink AK9563 FIPS 201 Compliant: Yes

IPv6 Support

Yes

FirstNet Certified

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

Class: 3

23. Click on Adobe icon in the start menu to take advantage of a 30 day trial membership of select Adobe software. The software is tied to the device and is not transferrable. You may also choose to enter your payment details to auto-renew and continue to use the software beyond the 30 day trial. See Adobe for complete details.



Technical Specifications

- 24. HP Easy Clean requires Windows 10 RS3 and higher and will disable the keyboard, touchscreen, and clickpad only. Ports are not disabled. See user guide for cleaning instructions.
- 25. HP Power Manager requires Windows 10 and higher and can be downloaded from the Microsoft Store. Depending on what version of HP Battery Health Manager (BHM) is available for your device, HP BHM may look at a number of factors to determine how to adjust battery charging over time to optimize battery health. HP BHM is preset to "Let HP Manage my Battery Charging" to allow the system to balance charging between battery health and battery duration. As Let HP Manage My Battery Charging adjusts charge capacity, the amount of run-time on battery will be reduced over time. HP may utilize BIOS updates to adjust BHM settings on select systems to optimize battery health and reduce exposure to those factors that can accelerate battery degradation. To update or change HP BHM settings and for complete details, see https://support.hp.com/us-en/document/ish_4449597-3519507-16
- 26. HP Services Scan is preinstalled and/or provided thru Windows Update and checks for service entitlement on each hardware device and downloads the applicable software agent automatically. To disable this feature, please follow the instructions at http://www.hpdaas.com/requirements. The HP Insights agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access with connection to the HP Insights agent is required. For full system requirements, please visit http://www.hpdaas.com/requirements. Not available in China.
- 27. HP Smart Support requires the HP agent to be installed. For more information about how to enable or to download HP Smart Support, please visit http://www.hp.com/smart-support. HP Services Scan is provided thru Windows Update and will check entitlement on each hardware device to determine if an HP agent-enabled service has been purchased, and will download applicable software automatically. The HP agent is a telemetry and analytics platform that provides critical data around devices and applications and is not sold as a standalone service. HP follows stringent GDPR privacy regulations and is ISO27001, ISO27701, ISO27017 and SOC2 Type2 certified for Information Security. Internet access is required. For full system requirements or to disable this feature, please visit http://www.hpdaas.com/requirements.
- 28. HP Support Assistant is available on Windows. For more information, please visit http://www.support.hp.com/help/hp-support-assistants
- 29. HP customers qualify for a 90 day trail of Miro, this offer ends September 2025. Complete terms and conditions are provided by Miro when accepting the offer.
- 30. Requires Windows 10 or higher OS.
- 31. Poly Lens Desktop requires a Windows OS.
- 32. HP Client Catalog can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html
- 33. HP Client Management Script Library can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions.html
- 34. HP Cloud Recovery is available for Z by HP, HP Elite and Pro desktops and laptops PCs with Intel® or AMD processors and requires an open, network connection. **NOTE:** You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Details, please refer to: https://support.hp.com/us-en/document/c05115630.
- 35. 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.
- 36. HP Driver Packs can be downloaded from https://www.hp.com/us-en/solutions/client-management-solutions/drivers-pack.html
- 37. HP Image Assistant can be downloaded from https://ftp.ext.hp.com/pub/caps-softpag/cmit/HPIA.html
- 38. HP Manageability Integration Kit can be downloaded from
- http://www8.hp.com/us/en/ads/clientmanagement/overview.html.
- 39. 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.
- 40. 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.



Technical Specifications

- 41. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
- 42. HP Sure Admin requires HP G8 or newer platforms, Windows 10 or higher, HP BIOS, HP Manageability Kit or KMS Service from http://www.hp.com/go/clientmanagement and HP Sure Admin Local Access Authenticator smartphone app from the Android or Apple store
- 43. HP Sure Click requires Windows 10 or 11 Pro or higher. See https://bit.ly/2PrLT6A_SureClick for complete details.
- 44. HP Sure Recover is available on select HP PCs and requires Windows 10 or Windows 11 and an open network connection. You must back up important files, data, photos, videos, etc. before using HP Sure Recover to avoid loss of data. Network based recovery using Wi-Fi is only available on select PCs.
- 45. HP Sure Run is available on select HP PCs and requires Windows 10 and higher.
- 46. HP Sure Start is available on select HP PCs and requires Windows 10 and higher 45. HP Wolf Security for Business requires Windows 10 or 11 Pro or higher, includes various HP security features and is available on HP Pro, Elite, RPOS and Workstation products. See product details for included security features.
- 47. 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/
- 48. HP BIOSphere features may vary depending on the platform and configuration.
- 49. HP Fingerprint Reader is an optional feature that requires Windows 10 or 11 and must be configured at purchase.
- 50. HP Secure Erase implements the methods outlined in the National Institute of Standards and Technology Special Publication 800-88r "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.



Technical Specifications

POWER

Power Supply

HP Standard 65W USB Type-C® adapter 51 HP Slim 65W USB Type-C® adapter 51

Battery

HP Long Life 3 cell 56Whr Polymer 52,53

Battery Recharge Time

Supports battery HP Fast Charge: approximately 50% in 30 minutes 54

Power Cord

3-wire plug - 1m 51

Battery Life

Up to 17 hours and 30 minutes with 56 whr battery (HP Long Life 3-Cell, 56 Whr Polymer, UMA graphic, AMD Ryzen 7 U15, Display set to 250 nits display, 16GB LPDDR5x memory, 256 GB SSD) 55

- 51. Availability may vary by country.
- 52. Battery is internal and not replaceable by customer. Serviceable by warranty.
- 53. 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.
- 54. Recharges your battery up to 50% within 30 minutes when the system is off or in standby mode. Power adapter minimum of 65 watts required for battery capacities 56Whr or less. Power adapter minimum of 100 watts required for battery capacities greater than 56Whr and less than 83Whr. Power adapter minimum of 120 watts required for battery capacities greater than 83Whr and less than 100Whr. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +/-10% due to System tolerance.
- 55. MM25 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See www.bapco.com for additional details.



WEIGHTS & DIMENSIONS

Product Weight

Starting at 1.32 kg (2.92 lb) with 56.00 Wh battery Weight will vary by configuration. Does not include power adapter.

Product Dimensions (W x D x H) 56

300.1 x 215.05 x 8.90 mm (front) / 16.35 mm (rear) 11.81 in x 8.46 in x 0.35 in (front) / 0.64 in (rear)

Pallet Dimensions (W \times D \times H) ⁵⁷

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

56. Product packaging size varies based on options chosen. Please contact your HP representative for your packaging size details.

57. Front height measurement is near the front edge where the chassis bottom cover taper begins. Back height measurement is near the back edge where the chassis bottom cover taper ends. For detailed packaging information, access the HP Commercial Notebooks Packaging Guide.

PORTS/SLOTS

Left Side

- 2 Thunderbolt[™] 4 USB4[™] Type-C[®] 40 Gbps USB Power Delivery DisplayPort[™] 1.4 ⁵⁸
- 1 Super Speed USB Type-A 5Gbps signaling rate Power charging
- 1 HDMI 2.1 7
- 1 Smart Card Reader (Integrated)

Right side

- 1 Super Speed USB Type-A 5Gbps signaling rate Power charging
- 1 Headphone/mic combo jack
- 1 Nano SIM card slot (Integrated)
- 1 Security lock slot (Integrated)

58. SuperSpeed USB 20Gbps signaling rate is not available with Thunderbolt™ 4.

7. HDMI cable sold separately.



Technical Specifications

SERVICE AND SUPPORT

1-year warranty 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. ⁵⁹

59. HP Care Packs are sold separately. Service levels and response times for HP Care Packs may vary depending on your geographic location. Service starts on date of hardware purchase. Restrictions and limitations apply. For details, visit http://www.hp.com/go/cpc. HP services are governed by the applicable HP terms and conditions of service provided or indicated to Customer at the time of purchase. Customer may have additional statutory rights according to applicable local laws, and such rights are not in any way affected by the HP terms and conditions of service or the HP Limited Warranty provided with your HP Product.



SYSTEM UNIT

Stand-Alone Power Requirements

(AC Power)

Nominal Operating Voltage 20.0V Max Operating Power UMA 65W

Temperature

Operating 0° to 35° C (32° to 95° F)

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

Relative Humidity

Operating 10% to 90 % (non-condensing)

Non-operating 5% to 95 %, 38.7° C (101.6° F) maximum wet bulb temperature

Shock

Operating 40 G, 2 ms, half-sine Non-operating 240 G, 2 ms, half-sine

Random Vibration

Operating 1.043 grams
Non-operating 3.500 grams

Altitude (unpressurized)

Operating 3048 m (10000 ft) Non-operating 12192 m (40000 ft)

Planned Industry Standard

Certifications

Regulatory Model Number HSN-I49C-3

CSA/UL 62368-1 Yes ENERGY STAR® Yes ⁶⁰

EPEAT® Gold in the United States 61

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 **WW RoHS** Yes Low Blue Light Yes

60. Configurations of the HP EliteBook 835 G11 that are ENERGY STAR® qualified are identified as HP EliteBook 835 G11 ENERGY STAR on HP websites and on http://www.energystar.gov.

61. 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 WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2Y 1000 eDP 1.3+PSR 100 PrivacvG4 Plus bent LCD Panel

Outline Dimensions (W x H) 291.380 x 188.640 (max) **Active Area** 286.080 x 178.800 (typ)

Weight 210 (max) **Diagonal Size** 13.3 **Surface Treatment** Anti-Glare **Touch Enabled**

No

Contrast Ratio 1500:1 (typ) **Refresh Rate** 60 Hz **Brightness** 1000 nits1

Pixel Resolution - Format 1920 x1200 (WUXGA)

Backlight **WLED Pixel Resolution RGB**

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 85/85/85/85

Low Blue Light Yes

Power Consumption (W. EBL@

150nits max/ 200nits max)) N/A

13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA WLED+LBL sRGB NB2X 400 eDP 1.4+PSR2 Low-Power 100 bent LCD Panel

Outline Dimensions (W x H) 292.040 x 189.830 (max) **Active Area** 286.040 x 178.780 (typ)

Weight 185 (max) **Diagonal Size** 13.3

Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio 1200:1(typ) **Refresh Rate** 60 Hz **Brightness** 400 nits1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

Backlight WLED **Pixel Resolution** RGB

Color Gamut Coverage sRGB 100%

Color Depth 8

Viewing Angle UWVA 89/89/89/89

Low Blue Light Yes

Power Consumption (W, EBL@ 1.21 (max) / 1.45 (max)

150nits max/ 200nits max))



13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA LED NTSC 45 NB2X 300 eDP 1.2 w/o PSR bent LCD Panel

 Outline Dimensions (W x H)
 291.74 x 189.53 (max)

 Active Area
 286.04 x 178.78 (tvp)

Weight 280 (max)
Diagonal Size 13.3
Surface Treatment Anti-Glare

Touch Enabled No

Contrast Ratio1000:1(typ)Refresh Rate60 HzBrightness300 nits1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6+2 FRC

Viewing Angle UWVA 89/89/89

Low Blue Light No

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

2.26 (max) / 2.78 (max)

13.3 in WUXGA (1920 x 1200) Anti-Glare UWVA LED NTSC 45 NB2X 300 TOP eDP 1.2 w/o PSR bent LCD Panel+PSR2 Low-Power 100 bent LCD Panel

 Outline Dimensions (W x H)
 292.040 x 189.830 (max)

 Active Area
 286.042 x 178.780 (typ)

Weight 280 (max)
Diagonal Size 13.3

Surface Treatment Anti-Glare

Touch Enabled Yes

Contrast Ratio1000:1 (typ)Refresh Rate60 HzBrightness300 nits1

Pixel Resolution - Format 1920 x 1200 (WUXGA)

BacklightWLEDPixel ResolutionRGBColor Gamut CoverageNTSC 45%Color Depth6+2 FRC

Viewing Angle UWVA 89/89/89

Low Blue Light No

Power Consumption (W, EBL@ 2.39 (max) / 2.96 (max) 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 512GB 2280 PCIe-4x4 NVMe Three Layer Cell Form Factor M.2 2280
Capacity 512GB
NAND Type TLC

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

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks2,000,409,264

Features Pyrite 2.0; TRIM; L1.2

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write5000 MB/s ±20%Logical Blocks4,000,797,360FeaturesPyrite 2.0; TRIM; L1.2

256GB PCIe 2280 NVMe Self Form Factor
Encrypted OPAL2 Value Capacity
Solid State Drive

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

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

Features TCG Opal 2.0; TRIM; L1.2

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

Drive

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read6400 MB/s ±20%Maximum Sequential Write3500 MB/s ±20%Logical Blocks1,000,215,215

Features TCG Opal 2.0; TRIM; L1.2

SSD 256GB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 256 GB
NAND Type TLC

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

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

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1000 MB/s ±20%Logical Blocks1,000,215,215

Features Pyrite 2.0; TRIM; L1.2

SSD 1TB 2280 PCIe NVMe Value Form Factor M.2 2280
Capacity 1TB
NAND Type TLC

InterfacePCIe NVMe Gen4X4Maximum Sequential Read2200 MB/s ±20%Maximum Sequential Write1600 MB/s ±20%Logical Blocks2,000,409,264

Features Pyrite 2.0; TRIM; L1.2



NETWORKING/COMMUNICATIONS

Bluetooth® 5.3 wireless

card WLAN 1

Realtek 8852CE Wi-Fi 6E Wireless LAN Standards

IEEE 802.11a IEEE 802.11ac IEEE 802.11ax

IEEE 802.11b
IEEE 802.11d
IEEE 802.11e
IEEE 802.11g
IEEE 802.11h
IEEE 802.11i
IEEE 802.11k

Interoperability

Wi-Fi certified

IEEE 802.11n

Frequency Band • 802.11b/g/n/ax

2.402 – 2.482 GHz • 802.11a/n/ac/ax 5.15 – 5.25 GHz 5.25 – 5.35 GHz 5.47 – 5.725 GHz 5.825 – 5.850 GHz 5.955 – 6.415 GHz 6.435 – 6.515 GHz 6.535 – 6.875 GHz 6.895 – 7.115 GHz

Data Rates

• 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

802.11ac: MCS0 ~ MCS9, (20MHz, 40MHz, 80MHz, 160MHz)
 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)

• 802.11b: 1, 2, 5.5, 11 Mbps

802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)

Modulation Direct Sequence Spread Spectrum

1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence

Spread Spectrum, OFDM, QPSK

Security²

802.1x authentication

AES-CCMP: 128 bit in hardware

• IEEE 802.11i

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

• WAPI

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

WPA2 certification

WPA3 (personal) certification

Network Architecture

Ad-hoc (Peer to Peer)

Models

Infrastructure (Access Point Required)

Roaming

IEEE 802.11 compliant roaming between access points

Output Power³

• 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

• 802.11ax HE80(6GHz): +10dBm minimum

802.11ax HE160(6GHz): +10dBm minimum

Power Consumption • Transmit mode 2.0 W

Receive mode 1.6 W

Idle mode (PSP) 180 mW (WLAN Associated)

• Idle mode 50 mW (WLAN unassociated)

• Connected Standby / Modern Standby 10mW

Radio disabled 8 mW

Power Management ACPI and PCI Express compliant power management

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

Two embedded tri-band 2.4/5/6 GHz antennas are provided to the card to

support WLAN MIMO communications and Bluetooth® communications

Form Factor PCI-Express M.2 MiniCard

Dimensions 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)

Weight 1. Type 2230: 2.8 g

2. Type 1216: g

Operating Voltage 3.3 v +/- 5 %

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)

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 + 4 dBm for BR and EDR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth® Software

Supported Link Topology Microsoft Windows Bluetooth® Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328,

ETSI 301 893, ETSI 303 687

Bluetooth® Profiles

Supported

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

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

Bluetooth® 5.2

2Mbps LE

Bluetooth® 5.3 wireless card Channel Selection Algo

Encryption key size control enhancements

ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions

LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer LE Link Layer Ping LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 - Extended Scanner Filter Policies

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

Limited High Duty Cycle Non-Connectable Advertising

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

- 1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, 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).



Mediatek RZ616 Wi-Fi 6E Wireless LAN Standards

Bluetooth® 5.3 wireless card AIM-T WLAN 1

IEEE 802.11a

IEEE 802.11ac IEEE 802.11ax

IEEE 802.11b

IEEE 802.11d

IEEE 802.11e

IEEE 802.11q

IEEE 802.11h IEEE 802.11i

IEEE 802.11j

IEEE 802.11k

IEEE 802.11mc

IEEE 802.11n

IEEE 802.11r IEEE 802.11v

IEEE 802.11w

Interoperability Wi-Fi certified

Frequency Band 802.11b/g/n/ax

> 2.402 - 2.482 GHz 802.11a/n/ac/ax 5.15 - 5.25 GHz 5.25 - 5.35 GHz

5.47 - 5.725 GHz 5.825 - 5.850 GHz 5.925 - 7.125 GHz

Data Rates • 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps

> 802.11ac: MCS0 ~ MCS9. (20MHz. 40MHz. 80MHz. 160MHz) 802.11ax: MCS0 ~ MCS11, (20MHz, 40MHz, 80MHz, 160MHz)

• 802.11b: 1, 2, 5.5, 11 Mbps

• 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11n: MCS 0 ~ MCS 15, (20MHz, 40MHz)

Modulation Direct Sequence Spread Spectrum

1024QAM, 16-QAM, 256-QAM, 64-QAM, BPSK, CCK, Direct Sequence

Spread Spectrum, OFDM, QPSK

Security² • 802.1x authentication

AES-CCMP: 128 bit in hardware

• IEEE 802.11i

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

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

WPA2 certification

• WPA3 (personal) certification

Network Architecture

Ad-hoc (Peer to Peer)

Models Infrastructure (Access Point Required)

Roaming IEEE 802.11 compliant roaming between access points

Output Power³ 2.4GHz (MIMO, typical):

> • 802.11b: +18dBm 802.11q:+16.5dBm



- 802.11n/ac/ax (HT20/VHT20/HE20): +16dBm
- 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm

5GHz (MIMO, typical):

- 802.11a: +13dBm
- 802.11n/ac/ax (HT20/VHT20/HE20): +13.5dBm
 802.11n/ac/ax (HT40/VHT40/HE40): +12.5dBm
- 802.11ac/ax (VHT80/HE80): +11.5dBm
- 802.11ax HE160: +11.5dBm

6GHz LPI mode (MIMO, typical):

- 802.11a: 0dBm
- 802.11ax HE20: +1dBm
- 802.11ax HE40 : +4dBm
- 802.11ax HE80: +7dBm
- 802.11ax HE160: +7.5dBm

Power Consumption

Transmit mode: 2.5 W

Receive mode: 2.0 W

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

Radio disabled: 8 mW

Power Management

ACPI and PCI Express compliant power management

Receiver Sensitivity⁴

2.4GHz (SISO):

802.11b, 11Mbps: -82dBm maximum
802.11g, 54Mbps: -71dBm maximum
802.11n, MCS7: -64dBm maximum
802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HT40): -49dBm maximum

5GHz (SISO):

802.11a, 54Mbps: -71dBm maximum
802.11n, MCS07: -64dBm maximum
802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HE80/HE160): -46dBm maximum

6GHz (SISO):

802.11a, 54Mbps: -71dBm maximum
 802.11n, MCS7: -64dBm maximum
 802.11ac, MCS9: -52dBm maximum

•802.11ax, MCS11(HE160): -46dBm maximum

Antenna type

High efficiency antenna with spatial diversity, mounted in the display

enclosure

Two embedded dual band 2.4/5/6 GHz antennas are provided to the card to support WLAN MIMO communications and Bluetooth® communications

Form Factor PCI-Express M.2 MiniCard

Dimensions 30.00 x 22.00 x 2.30 mm (1.18 x 0.87 x 0.09 inch)

 Weight
 Type 2230: 2.8g

 Operating Voltage
 3.3v +/- 9%



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)

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 + 4 dBm for BR and EDR.

Power Consumption Peak (Tx): 330 mW

Peak (Rx): 230 mW

Selective Suspend: 17 mW

Bluetooth® Software

Supported Link Topology Microsoft Windows Bluetooth® Software

Power Management Microsoft Windows ACPI, and USB Bus Support

Certifications FCC (47 CFR) Part 15C/E, Section 15.247, 15.249, 15.407; ETSI 300 328,

ETSI 301 893, ETSI 303 687

Bluetooth® Profiles

Supported

2Mbps LE

Advanced Audio Distribution Profile (A2DP)

Basic Imaging Profile (BIP)

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

Bluetooth® 5.2

Bluetooth® 5.3 wireless card Channel Selection Algo

Encryption key size control enhancements

ESR9/10 Compliance FAX Profile (FAX) Hands Free Profile (HFP) Headset Profile (HSP) LE Advertisement Extensions LE Data Packet Length Extension

LE Dual Mode

LE L2CAP Connection Oriented Channels

LE Link Layer LE Link Layer Ping LE Long Range

LE Low Duty Cycle Directed Advertising

LE Privacy 1.2 –Extended Scanner Filter Policies

LE Privacy 1.2 —Link Layer Privacy LE Secure Connection—Basic/Full

Limited High Duty Cycle Non-Connectable Advertising

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

1. Wi-Fi 6E requires a Wi-Fi 6E router, sold separately, to function in the 6GHz band. Availability of public wireless access points



limited. Wi-Fi 6E is backwards compatible with prior 802.11 specs. And available in countries where Wi-Fi 6E is supported. Wi-Fi 6E is designed to support gigabit data rate when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 80MHz and higher channels.

- 2. Check latest software/driver release for updates on supported security features.
- 3. The FCC has declared as of September 1, 2014 products that utilize passive scanning on channel 12/13 and are capable of transmitting must fully comply with requirements of 15.247 or otherwise disable those channels.
- 4. Receiver sensitivity is measured at a packet error rate of 8% for 802.11b (CKK modulation) and a packet error rate of 10% for 802.11a/g (OFDM modulation).



HP 5G Sub-6 Cat 19 WWAN Technology/Operating eSIM bands

WCDMA/HSPA+ operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) LTE FDD/TDD operating bands: Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL) Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL) Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL) Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL) Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL) Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL) Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL) Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) Band 29: 717 to 728 MHz (DL) Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL) Band 32: 1452 to 1496 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL) Band 38: 2570 to 2620 MHz (UL/DL) Band 39: 1880 to 1920 MHz (UL/DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 40: 2300 to 2400 MHz (UL/DL) Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHz (UL/DL) Band 43: 3400 to 3800 MHz (UL/DL) Band 46: 5150 to 5925 MHz (DL) Band 48: 3550 to 3700 MHz (UL/DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL) 5GNR Sub 6GHZ: n1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) n2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) n20: 832 to 862 MHz (UL), 791 to 821 MHz (DL) n25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL) n28: 703 to 748 MHz (UL), 758 to 803 MHz (DL) n3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) n38: 2570 to 2620 MHz (UL/DL) n40: 2300 to 2400 MHz (UL/DL) n41: 2496 to 2690 MHz (UL/DL) n48: 3550 to 3700 MHz (UL/DL) n5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) n66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) n7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) n71: 663 to 698 MHz (UL), 617 to 652 MHz (DL) n77: 3300 to 4200 MHz (UL/DL) n78: 3300 to 3800 MHz (UL/DL)



n79: 4400 to 5000 MHz (UL/DL)

n8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Wireless protocol NR Sub6G rel15

standards 200MHz 2 DLCA, 256 QAM

200MHz 2 ULCA, 256 QAM 15KHz/30KHz SCS for FDD/TDD

LTE Rel15

100MHz 5 DLCA, 256 QAM 40MHz 2 ULCA, 256 QAM

UMTS Rel8

GPS GPS only support L1 C/A

GPS bands GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1

(1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

Sub-6 SA Peak

DL 4.67Gbps/UL 1.25Gbps

Sub-6 NSA Peak

Maximum data rates DL 3.74Gbps/UL 835Mbps

LTE Peak

DL 1.6Gbps (CAT19)/UL 211Mbps (CAT18)

UMTS/HSPA+

DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)

NR: 3 dBm in all band except (n30 = 22dBm & n48=21dBm & n77=25dBm

& n41/n77/n78 = 26dBm)

Maximum output power LTE: 23 dBm in all band except (B30 = 22dBm & B48=21dBm &

B41=26dBm) UMTS: 23.5 dBm

Maximum power

3500 mA (peak); 1674mA (average)

consumption

 Form Factor
 M.2, 3052-S3 Key B

 Weight
 8.7 g (0.307 oz)

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

(Length x Width x

Thickness)

embedded eSIM Support

1. 5G module is optional and must be configured at the factory. Module designed for 5G NR NSA (non-standalone) networks as carriers deploy Evolved-Universal Terrestrial Radio Access New Radio Dual Connectivity (ENDC) with both 100Mhz of 5G NR and LTE channel bandwidth, using 256QAM 4x4 as defined by 3GPP. Module requires activation and separately purchased service contract. Check with service provider for coverage and availability in your area. Data connection, upload and download speeds will vary due to network, location, environment, network conditions, and other factors. Backwards compatible to 4G LTE and 3G HSPA technologies. 5G module planned to be available in select platforms and select countries, where carrier supported.



HP 4G LTE-A Pro Cat16 WWAN eSIM **Technology/Operating** WCDMA/HSI

bands

WCDMA/HSPA+ operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL) Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL) Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL) Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

LTE FDD/TDD operating bands:

Band 1: 1920 to 1980 MHz (UL), 2110 to 2170 MHz (DL)
Band 12: 699 to 716 MHz (UL), 729 to 746 MHz (DL)
Band 13: 777 to 787 MHz (UL), 746 to 756 MHz (DL)
Band 14: 788 to 798 MHz (UL), 758 to 768 MHz (DL)
Band 17: 704 to 716 MHz (UL), 734 to 746 MHz (DL)
Band 18: 815 to 830 MHz (UL), 860 to 875 MHz (DL)
Band 19: 830 to 845 MHz (UL), 875 to 890 MHz (DL)
Band 2: 1850 to 1910 MHz (UL), 1930 to 1990 MHz (DL)
Band 20: 832 to 862 MHz (UL), 791 to 821 MHz (DL)
Band 25: 1850 to 1915 MHz (UL), 1930 to 1995 MHz (DL)
Band 26: 814 to 849 MHz (UL), 859 to 894 MHz (DL)
Band 28: 703 to 748 MHz (UL), 758 to 803 MHz (DL)

Band 29: 717 to 728 MHz (DL)

Band 3: 1710 to 1785 MHz (UL), 1805 to 1880 MHz (DL) Band 30: 2305 to 2315 MHz (UL) 2350 to 2360 MHz (DL)

Band 32: 1452 to 1496 MHz (DL) Band 34: 2010 to 2025 MHz (UL/DL) Band 38: 2570 to 2620 MHz (UL/DL) Band 39: 1880 to 1920 MHz (UL/DL)

Band 4: 1710 to 1755 MHz (UL), 2110 to 2155 MHz (DL)

Band 40: 2300 to 2400 MHz (UL/DL) Band 41: 2496 to 2690 MHz (UL/DL) Band 42: 3400 to 3600 MHz (UL/DL) Band 43: 3400 to 3800 MHz (UL/DL) Band 48: 3550 to 3700 MHz (UL/DL)

Band 5: 824 to 849 MHz (UL), 869 to 894 MHz (DL) Band 66: 1710 to 1800 MHz (UL), 2110 to 2200 MHz (DL) Band 7: 2500 to 2570 MHz (UL), 2620 to 2690 MHz (DL) Band 71: 663 to 698 MHz (UL), 617 to 652 MHz (DL) Band 8: 880 to 915 MHz (UL), 925 to 960 MHz (DL)

Wireless protocol standards

3GPP LTE Rel15

LTE Specification, 100MHz 5 DLCA, 256 QAM, DL 1.0Gbps (CAT16)/

40MHz 2 ULCA, 256 QAM, UL 211Mbps (CAT18)

WCDMA 3GPP Release 8 UMTS Specification, DL UMTS: 384 kbps/UL 384 kbp, DL DC-HSPA+: 42 Mbps (CAT24)/UL 11.5 Mbps (CAT7)

WCDMA R99,

3GPP Release 5, 6, 7 and 8 UMTS Specification

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

GPS bands GPS L1 (1575.42MHz), GLONASS L1 (1602MHz), Beidou B1

(1561.098MHz), Galileo E1 (1575.42MHz), QZSS (1575.42MHz)

Maximum data rates LTE: ue-CategoryDL 16, (DL: 1 Gbps)

ue-CategoryUL 18, (UL: 211Mbps)

DC-HSPA+: 42 Mbps (Download), 11.5 Mbps (Upload)



HP EliteBook 835 13 inch G11 Notebook PC

Technical Specifications

Maximum output power HPUE: Not supported

LTE: 23 dBm in all band except (B30= 22dBm& B48= 21dBm)

UMTS: 23.5 dBm

Maximum powerLTE: 1300 mA (peak); 1100 mA (average)consumptionHSPA+: 1,100 mA (peak); 800 mA (average)

 Form Factor
 M.2, 3052-S3 Key B

 Weight
 8.0 g (0.282 oz)

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

(Length x Width x Thickness)

embedded eSIM Support

1. Mobile Broadband is an optional feature. Connection requires wireless data service contract, network support, and is not available in all areas. Contact service provider to determine the coverage area and availability. Connection speeds will vary due to location, environment, network conditions, and other factors. 4G LTE not available on all products or in all countries.



> Chipset NPC300 System interface I2C

NFC RF standards ISO/IEC 14443 A

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

ECMA-340 NFCIP-1 Target and Initiator

ECMA-320 NFCIP-2

NFC Forum Support Tag Type 1, Type 2, Type 3 and Type 4, NFCIP-1 and NFCIP-2

Reader (PCD-VCD) Mode ISO/IEC 14443 A

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

FeliCa

Jewel and Topaz

Card Emulation (PICC- ISO/IEC 14443 A

VICC) Mode ISO/IEC 14443 B and B'

MIFARE FeliCa

Frequency 13.56 MHz

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

Operating temperature Operating: 0 °C to 70 °C (32 °F to 158 °F)

Storage: -20 °C to 125 °C (-4 °F to 257 °F)

Humidity Operating: 10% – 90% (non-condensing)

Non-Operating: 5% - 95% (non-condensing)

Supply Operating voltage 4.35 to 5.25 Volts **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

Detected Test Tag Type 3 Total 287.7 mA

Net Module 240.7 mA

Detected Test Tag Type 4 Total 282.3 mA

Net Module 235.3 mA

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

external to module.



Qualcomm® 9205

Technology/Operating

bands

FDD LTE: 1700/2100 (Band 4), 1700/2100 (Band 66), 1800 (Band 3), 1900 (Band 2), 1900 (Band 25), 2100 (Band 1), 700 (Band 12 lower), 700 (Band 13 upper), 700 (Band 14 upper), 700 (Band 28), 700 (band 85), 800 (Band 20), 800 (Band 27), 850 (Band 18 lower), 850 (Band 19 upper), 850 (Band 26), 850 (Band 5), 900 (Band 8) MHz

GSM/GPRS/EGPRS: 1800, 1900, 850, 900 MHz

Wireless protocol standards

3GPP TS 21.111 V10.0.0: USIM and IC card requirements 3GPP TS 27.005 V10.0.1: Use of Data Terminal Equipment - Data Circuit terminating Equipment (DTE - DCE) interface for Short Message Service (SMS) and Cell Broadcast Service (CBS)

3GPP TS 27.007 V10.0.8: AT command set for User Equipment (UE)

3GPP TS 31.102 V10.11.0: Characteristics of the Universal

Subscriber Identity Module (USIM) application

3GPP TS 31.11 V10.16.0: Universal Subscriber Identity Module

(USIM) Application Toolkit (USAT)

3GPP TS 36.124 V10.3.0: Electro Magnetic Compatibility (EMC) requirements for mobile terminals and ancillary equipment 3GPP TS 36.521-1 V14.3.0: User Equipment (UE) conformance specification: Radio transmission and reception: Part 1:

Conformance testing

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

specification; Part 1: Conformance specification

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

Module - Mobile Equipment (SIM-ME) interface

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

GPS bands 1575.42 MHz ± 1.023 MHz, GLONASS 1596-1607MHz, Beidou

1561.098 MHz

Maximum data rates LTE FDD: 375.00 Kbps (Download), 1119.00 Kbps (Upload)

GPRS: 107.00 Kbps (Download), 85.60 Kbps (Upload) EGPRS: 296.00 Kbps (Download), 236.80 Kbps (Upload)

Maximum output power LTE (all bands except B41): 21.5 dBm

GSM: 34.0 dBm

Maximum power

consumption

LTE: 147 mA(peak), 18 mA(average)

Form Factor M.2 Weight 4 g

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

(Length x Width x Thickness)

embedded eSIM Support



POWER

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

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

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

Weight 240g ± 10g **Inpuvt** 100-240Vac

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

86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V 89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V

Input frequency range 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output power 5V/15W

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

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

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

Output current limit < 8.0A
AC Inlet Type C6

DC Cable Connector USB type C

DC Cable Material PVC

Connector C6

Environmental Design Operating

temperature

32° F to 95° F (0° to 35° C)

Non-operating (storage)

temperature -4° F to 185° F (-20° to 85° C)
Altitude 0 to 16,400 ft (0 to 5000m)

Humidity20% to 95%Storage Humidity10% to 95%

EMI and Safety Certifications

Output

CE Mark - full compliance with LVD and EMC directives

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

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

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

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

HP 65W Slim USB-C Straight AC Power Adapter

Dimensions 3.819 x 2.106 x 0.827 in (9.7x5.35x2.1cm)

 Weight
 220g ± 10g

 Input
 100-240Vac

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

86.70% min at 115 Vac/ 230 Vac @9.00V 88.00% min at 115 Vac/ 230 Vac @12.00V 89.00% min at 115 Vac/ 230 Vac @15.00V 89.00% min at 115 Vac/ 230 Vac @20.00V

Input frequency range 47-63Hz

Input AC current Max. 1.6 A at 90 Vac

Output power 5V/15W

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

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HP 3-cell Long Life Li-Ion Weight

(56Wh)1

0.205kg +/- 10g (0.474 lb)

Cells/Type 3cell Lithium-Ion Polymer cell / 586075

Energy Voltage 11.58V

> **Amp-hour capacity** 4.84Ah

Watt-hour capacity¹ 56.04Wh

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

> Operating (Discharging) 14° to 140° F (-10° to 60° C)

Optional Travel Battery

Available

AUDIO

HD Stereo Codec Realtek ALC3315

Audio I/O Ports 3.5mm Headset: CTIA only; Headphone-out

Internal Speaker Amplifier Cirrus Logic High-Efficiency Boosted Class D Amplifier

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

streams to be sent to/from the front jacks or integrated speaker.,

Following MSFT Behavior

Sampling DAC: Supports resolutions from -bit to -bit;48.0 kHZ to 48.0 kHz

ADC: Supports resolutions from -bit to -bit;48.0 kHZ to 48.0 kHz

Internal Speaker Yes

FINGERPRINT READER

Sensor vendor **ELAN 80SW** Sensor type Capacitive **DPI** resolution 508 DPI Scan area 80 x 80 pixels

< 3% **False Rejection Rate False Acceptance Rate** < 0.001% **Mobile Voltage Operation** 2.7 V ~ 3.6 V

Operating Temperature Current Consumption

-20°C ~ 80°C (-4°F ~ 176°F)

Image

35 mA max

Low Latency Wait For

Finger 300 uA

Capture Rate 50 frames/sec

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

Detection Matrix 508 dpi / 4.0 x 4.0 mm sensor area

Sensor vendor **SYNAPTICS** Sensor type Capacitive **DPI** resolution 363 DPI

Scan area 104 x 86 pixels



Technical Specifications

False Rejection Rate < 3%False Acceptance Rate < 0.001%Mobile Voltage Operation $2.7 \text{ V} \sim 3.6 \text{ V}$

Operating Temperature

0°C ~ 60°C (32°F ~ 140°F)

Current Consumption

Image 100 mA max

Low Latency Wait For

Finger 260 uA

Capture Rate 50 frames/sec

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

Detection Matrix 363 dpi / 7.4 x 6.0 mm sensor area



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

Ouad 4K @60Hz

Dual 8K single cable@30 for Thunderbolt hosts or USB-C hosts DisplayPort 1.4

with Display Stream Compression in High-Resolution Mode

Dock Connectors 2 x HDMI 2.0, 1 x USB-C Alt Mode, 1 x Thunderbolt 4, 2 x DisplayPort 1.4 **Technical limitations**

capability of the notebook.

Thunderbolt Hosts:

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

Maximum resolution and display support is dependent on the maximum

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 USB-C Dock G5

3

Total number of supported displays

(incl. the notebook display) Max. resolutions supported

Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port

High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @

60Hz on HDMI port

Dock Connectors 1x HDMI 2.0, 2x DisplayPort 1.4

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

capability of the notebook.

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

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

UHD@ 30 Hz on HDMI in Multi-function mode

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

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

Docking station model #3

HP USB-C G5 Essential Dock

Total number of supported displays

(incl. the notebook display)

3

Max. resolutions supported Multi-Function Mode: (2) 5k @ 30Hz and (1) 4k UHD @ 30Hz on any port

High-Resolution Mode: (2) 5k @ 60Hz on DisplayPort ports and (1) 4k UHD @

60Hz on HDMI port



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

Dock Connectors 1x HDMI 2.0, 2x DisplayPort 1.4

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

capability of the notebook.

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

Resolution mode.

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

UHD@ 30 Hz on HDMI in Multi-function mode

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

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

Docking station model #4 HP USB-C/A Universal Dock G2

Total number of supported displays

(incl. the notebook display)
Max. resolutions supported

Multi-Function Mode: (3) 4K DCI @ 30Hz on any port

High-Resolution Mode: (3) 4K DCI @ 30Hz on any port

Dock Connectors 1x HDMI 2.0, 2x DisplayPort 1.2

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

capability of the notebook.

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

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

host.

3



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

Туре	Description	Part Number
Adapter	HP HDMI to VGA Adapter	H4F02AA
	HP USB 3.0 to Gigabit RJ45 Adapter G2	4Z7Z7AA
	HP USB-C to DisplayPort Adapter	N9K78AA
	HP USB-C to DisplayPort Adapter G2	8Y8Y1AA
	HP USB-C to HDMI 2.0 Adapter	1WC36AA
	HP USB-C to RJ45 Adapter G2	4Z527AA
	HP USB-C to USB 3.0 Adapter	N2Z63AA
	HP USB-C to VGA Adapter	N9K76AA
Audio	HP Bluetooth™ 365 Speaker	567D3AA
	HP USB G2 Stereo Headset	428K6AA
	HP 3.5mm G2 Stereo Headset	428K7AA
Cases	HP Prelude 15.6 Backpack	1E7D6AA
	HP Prelude 15.6 Top Load	1E7D7AA
	HP Prelude Pro Recycled 15.6 Backpack	1X644AA
	HP Prelude Pro Recycled 15.6 Top Load	1X645AA
	HP Renew Business 14.1 Laptop Bag	3E5F9AA
	HP Renew Business 14.1 Laptop Sleeve	3E2U7AA
	HP Renew Business 15.6 Laptop Bag	3E5F8AA
	HP Renew Business 17.3 Laptop Backpack	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 Travel 15.6 iron gray Laptop Backpack	6H2D8AA
Commodity	HP USB DVD-Writer External ODD	F2B56AA
	HP Combination Nano Cable Lock	63B28AA
	HP Essential Combination Nano Cable Lock	63B31AA
	HP Nano Keyed Cable Lock	1AJ39AA
	HP Nano Master Keyed Cable Lock	1AJ40AA
	HP SureKey Standard/Nano/Wedge Cable Lock	6UW42AA
Docking	HP Thunderbolt™ 120W G4 Dock	4J0A2AA
	HP Thunderbolt™ 280W G4 Dock w/Combo Cable	4J0G4AA
	HP USB-C™ 120W G5 Dock	5TW10AA
	HP USB-C™ G2 Travel Dock	7PJ38AA
	HP USB-C™ G5 Essential Dock	72C71AA



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

•	HP USB-C™/A 120W G2 Universal Dock	5TW13AA
Hub	HP 4K USB-C Multiport Hub	6G843AA
	HP Universal USB-C Hub and Laptop Charger Combo	9H0H9AA
	HP Universal USB-C Multiport Hub	50H55AA
	HP USB-C to USB-A Hub	Z6A00AA
	HP USB-C Travel Hub G3	86S97AA
Keyboard/Combo	HP 655 Wireless Keyboard and Mouse Combo	4R009AA
	HP 685 Comfort Dual-Mode Keyboard and Mouse Combo	8T6L7AA
	HP Wired Desktop 320MK Mouse and Keyboard	9SR36AA
	HP Wireless Rechargeable 950MK Mouse and Keyboard	3M165AA
	HP 320K USB Wired Keyboard	9SR37AA
	HP 405 Multi-Device Backlit Wired Keyboard	7N7C1AA
	HP 435 Programmable Wireless Keypad	7N7C3AA
	HP 455 Programmable Wireless Keyboard	4R177AA
	HP 475 Dual-Mode Wireless Keyboard	7N7B9AA
	HP 485 Comfort Wired Keyboard	8T6M2AA
	HP 685 Comfort Dual-Mode Keyboard	8T6L9AA
	HP 965 black Ergonomic Wireless Keyboard	7E756AA
	HP 975 Dual-Mode USB+ Bluetooth® Wireless Keyboard	3Z726AA
Mouse	HP 235 Slim Wireless Mouse	4E407AA
	HP 320M Wired Mouse	9VA80AA
	HP 435 Multi-Device Wireless Mouse	3B4Q5AA
	HP 515 Ultra-Fast Rechargeable Wireless Mouse	9C2F7AA
	HP 685 Comfort Dual-Mode Mouse	8T6M0AA
	HP 715 Rechargeable Multi-Device Bluetooth® Mouse	6E6F0AA
	HP 925 Ergonomic Vertical Wireless Mouse	6H1A5AA
	HP Creator Black 935 Wireless Mouse	1D0K8AA
	HP Multi-Device Black 635 Wireless Mouse	1D0K2AA
	HP Premium Wireless Mouse	1JR31AA
	HP Travel Bluetooth® Mouse	6SP30AA
Power	HP 110W USB-C Laptop Charger	8B3Y2AA
-	HP 65W LC USB-C AC power adapter	1P3K6AA
	HP 65W USB-C Laptop Charger	600Q7AA
Video	HP USB-A 325 Webcam	53X27AA
	HP Streaming 965 Webcam	695J5AA



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

HP 625 Webcam 6Y7L1AA



HP EliteBook 835 13 inch G11 Notebook PC

QuickSpecs

Change Log

Date of change:	Version History:	Description of change:	
	V1 to V2		

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