HP EliteBook 650 15.6 inch G9 Notebook PC (6G9E0PA)

Active as of 3/06/2022

Overview

Upgrade to elite performance

The HP EliteBook 650 is a cost-effective, powerful, and secure PC that allows easy standardization, while giving end-users the tools needed work from almost anywhere. Designed around the fundamental needs of enterprise businesses, this PC features the collaboration, power, and security your business needs to stay on top.

The HP EliteBook 650 is a cost-effective, powerful, and secure PC that allows easy standardization into existing IT environments, while giving end-users the tools they need to work from almost anywhere.

Crystal-clear speakers

Enjoy the crystal-clear audio performance delivered by HP Dynamic Audio [5] and HP AI Noise Reduction. [6]

Protected by HP Wolf Security

HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. [8]

Latest Intel® processor

Drive performance with the latest Intel® [2] processor, on this globally available and easy-to-service laptop.

Specifications

Operating system
Windows 10 Pro (available through downgrade rights from Windows 11 Pro) [1,2]1

Processor family
12th Generation Intel® Core™ i7 processor

Processor
Intel® Core™ i7-1255U (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads) [6,7]1

Processor technology
Intel® Core™ i7 with vPro™ Technology

Management features
HP Client Management Script Library (download); HP Driver Packs (download); HP Client Catalog (download); HP Manageability Integration Kit Gen4 (download); HP Image Assistant Gen5 (download); HP Patch Assistant (download); HP Cloud Recovery; HP Connect for Microsoft Endpoint Manager

Sustainable impact specifications
Low Halogen

Security management
Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Sure Click; HP

Sure Sense; BIOS Update via Network; HP Sure Admin; HP BIOSphere Gen6; HP Client Security Manager Gen7; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock; HP Sure Run Gen5; HP Sure Recover Gen5; Secured-Core PC Enable

Memory
16 GB DDR4-3200 MHz RAM (1 x 16 GB)

Memory layout (slots & size)
1 x 16 GB

Memory Slots
2 SODIMM

Internal Storage
512 GB PCIe® NVMe™ SSD

Optical drive
Not included

Display
39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC

Display size (diagonal)
39.6 cm (15.6")

Graphics
Integrated

Graphics (integrated)
Intel® Iris® Xe Graphics

Ports
3 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging); 1 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 RJ-45; 1 headphone/microphone combo; 1 HDMI 2.0; 1 AC power
(HDMI cable sold separately.)
3

Camera
720p HD privacy camera

Audio
Dual stereo speakers, dual array microphones

Pointing device
Clickpad with multi-touch gesture support, taps enabled as default

Keyboard
HP Premium Keyboard – spill-resistant, backlit keyboard with numeric keypad

Wireless
Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (supporting gigabit data rate)

Power
HP Smart 65 W External AC power adapter

Battery type
HP Long Life 3-cell, 51 Wh Li-ion

Energy star certified
ENERGY STAR® certified

Minimum dimensions (W x D x H)
35.94 x 23.39 x 1.99 cm

Weight
Starting at 1.74 kg

UPC number
196548920723

Software included
HP Connection Optimizer; HP Hotkey Support; HP MAC Address Manager; HP Support Assistant; HP Power Manager; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HP QuickDrop; HP Quick Touch [18]

Manufacturer Warranty

1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply. [38][1]

Overview

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. 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.

2   Multicore is designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. Performance and clock frequency will vary depending on application workload and your hardware and software configurations. Intel's numbering, branding and/or naming is not a measurement of higher performance.

3   Wireless access point and internet service required and sold separately. Availability of public wireless access points limited. Wi-Fi 6 is backwards compatible with prior 802.11 specs. The specifications for Wi-Fi 6 (802.11ax) are draft and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the PC to communicate with other 802.11ax devices. Wi-Fi® supporting gigabit speeds is achievable with Wi-Fi 6 (802.11ax) when transferring files between two devices connected to the same router. Requires a wireless router, sold separately, that supports 160MHz channels.

5   HP Dynamic Audio requires Windows 10 and higher, compatible with internal PC speakers and analog headsets.

6   Requires the myHP application and Windows OS.

8   HP Wolf Security for Business requires Windows 10 and higher, includes various HP security features and is available on HP Pro, Elite, Workstation, and RPOS products. See product details for included security features and OS requirements.

Specifications

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.

6   Multi-core 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.

7   Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

18 HP Support Assistant requires Windows and Internet access.

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.

38 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 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.

Detailed Specifications

Accessories
HP Wired USB-A Stereo Headset 428K6AA; HP Renew Business17.3 Laptop Backpack 3E2U5AA; HP Universal USB-C Multiport Hub 50H55AA; HP Multi-Device 635 Black Wireless Mouse 1D0K2AA

Aggregation group name
BV_FE_FAMILY:thanos 15_Group_275

Aggregation UPC group
196548656844 196548656875 196548656905 196548657001 196548657308 196548657407
196548493838 196548678853 196548681198 196548681204 196548681228 196548681396
196548681402 196548685332 196548685370 196548685592 196548685653 196548802807
196548911042 196548920662 196548920679 196548920686 196548920709 196548920716
196548920723 196548920730 196548934966 196548935079 196548935086 196548947478
196548947485 196548947492 196548947508 196548949243 196548949250 196548949267
196548949274 196548949281 196548958597 196548958603 196548958641 196548958818
196548958825 196548958832 196548958849 196548958924 196548958931 196548970568
196548970582 196548970650 196548970667 196548970711 196548970728 196548973194
196786015496 196786030420 196786030444 196786030451 196786034152 196786034619
196786055027 196786055034 196786055072 196786055089 196786082177 196786083303
196786083310 196786083341 196786091889 196786122330 196786122347 196786122378
196786122484 196786181696 196786285370 196786334252 196786334269 196786349447
196786382895 196786449765

Audio
Dual stereo speakers, dual array microphones

Available software
HP Smart Support

Available software footnote number
[57]

Battery brand
HP

Battery capacity
51

Battery capacity uom
Wh

Battery cells number
3

Battery life
Long Life

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

Battery type
HP Long Life 3-cell, 51 Wh Li-ion

Battery type
Li-ion

Battery weight
180 g

Bluetooth version
Bluetooth® 5.2

Brightness
250 nits

Camera
720p HD privacy camera

Camera resolution (vertical)
720p

Camera resolution standard
HD

Certifications and compliances
CCC; CECP; GS Mark

Code name
Thanos 15

Color gamut
45% NTSC

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Datasheet photo 1
AHID/c562103dc4b7fd56762d504419ccca5f5bd67966

Datasheet photo 2
Publication logos/HP_Care_Pack_RGB_blue_icon.jpg

Datasheet photo 3
AHID/74eadf2f1763561d3e26d489c2e6340028636ef1

Datasheet photo 4
AHID/b454f90d29c09c6ea58e2d0fc00d269baf483f1e

Datasheet photo 5
AHID/bec8d0c030a35e04f539e70ff854895cf88b696d

Display
15.6" diagonal FHD display

Display
15.6" diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC

Display
39.6 cm (15.6") diagonal FHD display

Display
39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC

Display bezel
narrow bezel

Display brightness
250

Display brightness uom
nits

Display footnote number
[12,15,16]

Display panel technology
IPS

Display resolution (pixels)
1920 x 1080

Display resolution standard
FHD

Display size (diagonal)
39.6 cm (15.6")

Display size (diagonal) uom
"

Display size (diagonal, imperial)
15.6

Display size (diagonal, metric)
39.6

Display size (diagonal, metric) uom
cm

Display surface treatment
anti-glare

ECC memory
non-ECC

Energy star certified
ENERGY STAR® certified

External I/O ports footnote number
[11]

Fingerprint reader
Fingerprint sensor

Graphic card footnote number
[42]

Graphics
Integrated

Graphics (integrated)
Intel® Iris® X$_e$ Graphics

Image legal disclaimer
Product image may differ from actual product

Internal Storage
512 GB PCIe® NVMe™ SSD

Keyboard
HP Premium Keyboard – spill-resistant, backlit keyboard with numeric keypad

Keyboard backlight
backlit

Keyboard features
Spill-resistant

Keyboard keypad
numeric keypad

Keyboard name
HP Premium Keyboard

Legal tagline
HP recommends Windows 11 Pro for business

Manageability features footnote number
[20,21,22,23,24]

Management features
HP Client Management Script Library (download); HP Driver Packs (download); HP Client Catalog (download); HP Manageability Integration Kit Gen4 (download); HP Image Assistant Gen5 (download); HP Patch Assistant (download); HP Cloud Recovery; HP Connect for Microsoft Endpoint Manager

Manufacturer Warranty
1 year (1/1/1) limited warranty includes 1 year of parts, labor and on-site repair. Terms and conditions vary by country. Certain restrictions and exclusions apply.

Memory
16 GB DDR4-3200 MHz RAM (1 x 16 GB)

Memory and storage
16 GB memory; 512 GB SSD storage

Memory layout (slots & size)
1 x 16 GB

Memory module type
DIMM

Memory size
16

Memory size uom
GB

Memory Slots
2 SODIMM

Memory speed
3200

Memory speed uom
MHz

Memory type
DDR4

Minimum dimensions (W x D x H)
35.94 x 23.39 x 1.99 cm

Mobile broadband
Intel® XMM™ 7560 LTE Advanced Pro Cat 16

Number of memory slots
1

Operating system
Windows 10 Pro (available through downgrade rights from Windows 11 Pro)

Operating system footnote number
[1,2]

Optical drive
Not included

Playbook TS icon battery life
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905264.png

Playbook TS icon connectivity
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201987.png

Playbook TS icon dimensions NB
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08250394.png

Playbook TS icon display NB
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08205649.png

Playbook TS icon graphics
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08169202.png

Playbook TS icon memory
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267700.png

Playbook TS icon OS
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c03905482.png

Playbook TS icon processor
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08201972.png

Playbook TS icon storage
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Playbook TS icon weight imperial
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c05790117.png

Playbook TS icon weight metric
https://h10003.www1.hp.com/digmedialib/prodimg/lowres/c08267650.png

Pointing device
Clickpad with multi-touch gesture support, taps enabled as default

Ports
3 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging); 1 Thunderbolt™ 4 with USB4™ Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 RJ-45; 1 headphone/microphone combo; 1 HDMI 2.0; 1 AC power

Ports note
HDMI cable sold separately.

Power
HP Smart 65 W External AC power adapter

Power supply required footnote number
[37]

Processor
Intel® Core™ i7-1255U (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)

Processor base frequency
1.7

Processor Brand
Intel®

Processor cache
12 MB L3

Processor core
10

Processor family
12th Generation Intel® Core™ i7 processor

Processor family
Core™ i7

Processor frequency technology
Intel® Turbo Boost Technology

Processor frequency UOM
GHz

Processor generation
12th Generation

Processor maximum frequency
4.7

Processor maximum frequency uom
GHz

Processor model
1255U

Processor name footnote number
[6,7]

Processor technology
Intel® Core™ i7 with vPro™ Technology

Processor threads
12

Product brand name
HP

Product long name specifications
HP EliteBook 650 15.6 inch G9 Notebook PC, 15.6", Windows 10 Pro (available through downgrade rights from Windows 11 Pro), Intel® Core™ i7, 16GB RAM, 512GB SSD, FHD

Product short name specifications
HP EliteBook 650 15.6 inch G9 Notebook PC, 15.6", Intel® Core™ i7, 16GB RAM, 512GB SSD

Sales office and telephone number
Albania: +49 89 9396 1803; Algeria: +213 (0) 61 68 23 00; Austria: +43 (0) 810 00 60 80; Bahrain: 800 171; Belgium: +32 (02) 729 71 11; Bulgaria: +359 2 969 87; Bosnia-Herzegovina: +49 89 9396 1803; Commonwealth of Independent States (CIS): +(095) 923 50 01; Croatia: +385 1 606 02 00; Czech Republic: +420 261 108 108; Denmark: +45 48 12 10 00; HP East Africa, Authorized Consultant: +254 20 27 16 111; Egypt: HP +202 792 5070 ; Estonia: +372 6 813 820; Finland: HP Myyntipalvelu 010 217 2700; France: +33 (0) 826 800 400; Germany: +49 (0) 180 532 62 22; Greece: +30 801 11 22 55 47; Hungary: +36 (1) 382 11 11; Iceland: +354 (1) 67 10 00; Ireland: +353 1 615 82 00; Israel: +972 9 830 48 48; Italy: Prodotti +39 02 92607 330, Servizio HP Care Pack: +39 02 9212 2040; Kazakhstan & Kyrgyzstan: +7 327 2 58 43 43; Latvia: +371 703 07 00; Lithuania: +370 5 2103 300; Luxembourg : (+352) 263 160 34 Macedonia: +49 89

9396 1803; Malta: +49 89 9396 1803; Middle East (Within UAE Toll Free): 800 45 20; Moldova: +49 89 9396 1803; Morocco (African Region): Call Centre +212 22 40 47 47, HP Sale Office +212 22 97 37 37/+212 22 43 64 00; Netherlands: 0800 266 7272; Nigeria: + 234 13 205 241/3; Norway: +47 24 09 70 00; Poland: 0 801 522 622 and/or 00 48 22 565 77 00 (calls are charged at national rates); Portugal: +351 808 200 808 (end user welcome desk for commercial products) ; Romania: +40 (21) 303 83 00; Saudi Arabia: (Toll free) 800 897 14 33, Office Number: +96612731200; Serbia and Montenegro: +381 11 201 99 00; Slovakia: 0800 147 147; Slovenia: +386 1 230 74 20; Spain: +34 (91) 631 16 00; Sweden: +46 200 27 00 00; Switzerland: Pre-sales/product information +41 (0) 848 88 44 66, Spare parts, manuals +41 (0) 848 84 74 64; Tunisia: +216 1 89 12 22; Turkey: +90 (212) 444 79 79; UAE (Toll Free): 800 45 20; UAE (Toll Free): 800 45 20 or 800 49 10; Ukraine: +380 44 490 61 20 ; United Kingdom: HP Teleweb Glasgow +44 (0) 845 270 40 00

Security management
Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Sure Click; HP Sure Sense; BIOS Update via Network; HP Sure Admin; HP BIOSphere Gen6; HP Client Security Manager Gen7; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock; HP Sure Run Gen5; HP Sure Recover Gen5; Secured-Core PC Enable

Security management footnote number
[25,26,27,28,29,30,31,32,33,34]

Software included
HP Connection Optimizer; HP Hotkey Support; HP MAC Address Manager; HP Support Assistant; HP Power Manager; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HP QuickDrop; HP Quick Touch

Software included footnote number
[18,19]

Standard memory note
Transfer rates up to 3200 MT/s.

Storage capacity
512

Storage capacity uom 01
GB

Storage interface 01
PCIe®

Storage interface protocol 01
NVMe™

Storage type
SSD

Storage type 01
SSD

Sustainable impact specifications
Low Halogen

Sustainable impact specifications footnote number
[40]

Tech spec footnote
[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.

Tech spec footnote
[10] Miracast is a wireless technology your PC can use to project your screen to TVs, projectors, and streaming.

Tech spec footnote
[11] SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

Tech spec footnote
[12] HD content required to view HD images.

Tech spec footnote

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

Tech spec footnote
[14] Backlit keyboard is an optional feature.

Tech spec footnote
[15] Resolutions are dependent upon monitor capability, and resolution and color depth settings.

Tech spec footnote
[16] Actual brightness will be lower with touchscreen.

Tech spec footnote
[17] 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.

Tech spec footnote
[18] HP Support Assistant requires Windows and Internet access.

Tech spec footnote
[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.

Tech spec footnote
[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.

Tech spec footnote
[20] HP Driver Packs not preinstalled, however available for download at http://www.hp.com/go/clientmanagement .

Tech spec footnote
[21] HP Manageability Integration Kit can be downloaded from http://www.hp.com/go/clientmanagement .

Tech spec footnote
[22] 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 .

Tech spec footnote
[23] 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, wired network connection. Note: You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Detail please refer to: https://support.hp.com/us-en/document/c05115630 .

Tech spec footnote
[24] HP Connect for Microsoft Endpoint Manager is available from the Azure Market Place for HP Pro, Elite, Z and Point-of-Sale PCs managed with Microsoft Endpoint Manager. Subscription to Microsoft Endpoint Manager required and sold separately. Network connection required.

Tech spec footnote
[25] Absolute agent is shipped turned off, and will be activated when customers activate a purchased subscription. Subscriptions can be purchased for terms ranging multiple years. Service is limited, check with Absolute for availability outside the U.S. The Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: http://www.absolute.com/company/legal/agreements/ computrace-agreement . Data Delete is an optional service provided by Absolute Software. If utilized, the Recovery Guarantee is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either obtain a PIN or purchase one or more RSA SecurID tokens from Absolute Software.

Tech spec footnote
[26] HP Secure Erase for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 "Clear" sanitation method. HP Secure Erase does not support platforms with Intel® Optane™.

Tech spec footnote

[27] HP Sure Click requires Windows 10 Pro or higher or Enterprise. See https://bit.ly/2PrLT6A_SureClick for complete details.

Tech spec footnote

[28] HP Sure Sense is available on select HP PCs with Windows 10 Pro, Windows 10 Enterprise, Windows 11 Pro, or Windows 11 Enterprise OS.

Tech spec footnote

[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.

Tech spec footnote

[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.

Tech spec footnote

[30] HP BIOSphere Gen6 features may vary depending on the platform and configuration.

Tech spec footnote

[31] HP Client Security Manager Gen7 requires Windows and is available on the select HP Elite and Pro PCs.

Tech spec footnote

[32] HP Sure Start Gen7 is available on select HP PCs and requires Windows 10 and higher.

Tech spec footnote

[33] HP Sure Run Gen5 is available on select HP PCs and requires Windows 10 and higher.

Tech spec footnote

[34] HP Sure Recover Gen5 with Embedded Reimaging is an optional feature which requires Windows 10 and must be configured at purchase. You must back up important files, data, photos, videos, etc. before use to avoid loss of data. Network based recovery using Wi-Fi is only available on PC's with Intel Wi-Fi Module.

Tech spec footnote

[35] HP Fingerprint sensor is an optional feature that must be configured at purchase.

Tech spec footnote

[36] 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.

Tech spec footnote

[37] Availability may vary by country.

Tech spec footnote

[38] 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 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.

Tech spec footnote

[39] Based on US EPEAT® registration according to IEEE 1680.1-2018 EPEAT®. EPEAT® status varies by country. Visit www.epeat.net for more information.

Tech spec footnote

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

Tech spec footnote

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

Tech spec footnote

[41] Second storage is only available with non-WWAN base Unit AND Primary M.2 storage.

Tech spec footnote

[42] Integrated graphics depends on processor. NVIDIA® Optimus™ technology requires an Intel processor, plus an NVIDIA® GeForce® discrete graphics configuration and is available on Windows 10 Pro OS. With NVIDIA®

Optimus™ technology, full enablement of all discrete graphics video and display features may not be supported on all systems (e.g. OpenGL applications will run on the integrated GPU or the APU as the case may be).

Tech spec footnote

[43] Second storage is only available with non-WWAN base Unit AND Primary M.2 storage.

Tech spec footnote

[44] SIM slot is not user accessible without WWAN configuration.

Tech spec footnote

[45] 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 .

Tech spec footnote

[5] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See www.intel.com/technology/turboboost for more information.

Tech spec footnote

[6] Multi-core 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.

Tech spec footnote

[7] Intel® Turbo Boost performance varies depending on hardware, software and overall system configuration. See http://www.intel.com/technology/turboboost/ for more information.

Tech spec footnote

[8] 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.

Tech spec footnote

[9] 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.

Tech spec footnote 57

[57] 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 .

Touchscreen

No

Trademark information

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UNSPSC code

43211503

UPC number

196548920723

Warranty footnote number

[38]

Weight

Starting at 1.74 kg

Weight note (metric)

Weight will vary by configuration.

Wireless

Intel® Wi-Fi 6E AX211 (2x2) and Bluetooth® 5.2 combo (supporting gigabit data rate)

Wireless antenna

2x2

Wireless Model
Wi-Fi 6E AX211

Wireless standard
Wi-Fi 6

Wireless supplier
Intel®

Wireless transfer speeds
Supporting Gigabit data rate