HP ProBook 650 G8 Notebook PC



Modern design for the enterprise

The new modern design of the HP ProBook 650 brings style to the enterprise and delivers the performance, durability, security, and manageability required for today's workforce. Flexible configuration options fit a range of users and budgets.



*Product image may differ from actual product

HP recommends Windows 10 Pro for business

Easy to carry where the day takes you

• Confidently carry this durable laptop with you knowing it's built to last and made to travel. The slim yet durable HP ProBook 650 features an aluminum chassis, an 88-percent screen-to-body ratio, and a spill resistant keyboard.

Made for the enterprise

With an optional quad-core 11th Gen Intel® Core™ ^{2,3} vPro® ¹ processor, this globally available PC is easy to service, drives performance and has long battery life, and optional Thunderbolt™ docking.⁴ The optional Opal2 SSD⁵ provides for highly secure storage for the enterprise.

Protected by HP Wolf Security

- HP Wolf Security for Business creates a hardware-enforced, always-on, resilient defense. From the BIOS to the browser, above, in, and below the OS, these constantly evolving solutions help protect your PC from modern threats.¹⁷
- You will appreciate the style of the aluminum chassis and the confidence that comes from 120,000 hours of the HP Total Test process and MIL-STD 810H testing.^{6,7}
- Help speed up demanding business applications with an optional quad-core 11th Gen Intel® Core™ vPro® processor with breakthrough Intel® Iris® Xe graphics. ^{1,2,3,16}
- Enjoy the consistent feel and extremely quiet typing experience of the redesigned keyboard with rubber dome keys.
- Get going fast with Connected Modern Standby and wake your PC from the optional match-on-sensor fingerprint sensor. $^{\rm 8}$
- Instantly block prying eyes by making your screen appear dark and unreadable from the side with optional HP Sure View Gen3.⁹
- Firmware attacks can completely devastate your PC. Stay protected with HP Sure Start Gen6, the self-healing BIOS that automatically recovers itself from attacks or corruption.¹⁰
- Quickly transition to desktop productivity with a single USB-C® cable. The optional HP Thunderbolt™ Dock G2 delivers enterprise manageability and you can add an optional audio module.^{11,12,13}
- Never wonder if someone is watching you with the added peace-of-mind that comes from the integrated HP Privacy Camera, with a physical shutter to protect from malicious surveillance.¹⁴
- The HP ProBook 650 uses recycled materials in the keyboard, speakers, and packaging—this ENERGY STAR® certified PC earns an EPEAT® Gold rating in the U.S.¹⁵

HP ProBook 650 G8 Notebook PC Specifications Table







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Available Operating Systems	Windows 10 Pro 64 – HP recommends Windows 10 Pro for business ¹ Windows 10 Home 64 ¹ Windows 10 Home Single Language 64 ¹ FreeDOS
Processor family ⁶	11th Generation Intel® Core™ i7 processor; 11th Generation Intel® Core™ i5 processor; 11th Generation Intel® Core™ i3 processor
Available Processors ^{3,4,5,6,45}	Intel® Core™ i3-1115G4 with Intel® UHD Graphics (up to 4.1 GHz with Intel® Turbo Boost Technology, 6 MB L3 cache, 2 cores); Intel® Core™ i5-1135G7 (2.4 GHz base frequency, up to 4.2 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores); Intel® Core™ i7-1165G7 (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores); Intel® Core™ i7-1185G7 (up to 4.8 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 4 cores), supports Intel® vPro® Technology; Intel® Core™ i5-1145G7 (up to 4.4 GHz with Intel® Turbo Boost Technology, 8 MB L3 cache, 4 cores), supports Intel® vPro® Technology
Maximum memory	64 GB DDR4-3200 SDRAM ⁷ Both slots are customer accessible/upgradeable. Supports dual channel memory.
Memory slots	2 SODIMM
Internal storage	up to 512 GB Intel® PCIe® NVMe™ QLC M.2 SSD with 32 GB Intel® Optane™ memory H10 ^{8,41} 128 GB up to 1 TB PCIe® Gen3x2 NVMe™ M.2 SSD TLC ⁸ 256 GB up to 512 GB PCIe® Gen3x4 NVMe™ M.2 SED SSD TLC ⁸ 256 GB up to 512 GB PCIe® NVMe™ Value M.2 SSD ⁸
Display size (diagonal, metric)	39.6 cm (15.6")
Display	39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 1000 nits, 100% sRGB, HP Sure View integrated privacy screen; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 400 nits, low power, 100% sRGB; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, HD (1366 x 768), narrow bezel, anti-glare, 250 nits, 45% NTSC; 39.6 cm (15.6") diagonal, FHD (1920 x 1080), touch, narrow bezel, anti-glare, 250 nits, 45% NTSC 11,14,15,16
Available Graphics	Integrated: Intel [®] Iris [®] X ^e Graphics; Intel [®] UHD Graphics ^{11,43} Discrete: NVIDIA [®] GeForce [®] MX450 (2 GB DDR5 dedicated) ⁴⁴ (Support HD Decode, DX12, and HDMI 1.4b.)
Audio	Dual stereo speakers, dual array microphone
Ports and Connectors	2 SuperSpeed USB Type-A 5Gbps signaling rate (1 charging, 1 power); 1 SuperSpeed USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4); 1 RJ-45; 1 headphone/microphone combo; 1 HDMI 1.4b; 1 AC power (HDMI cable sold separately.) Optional Ports: 1 Smartcard reader (optional); 1 Thunderbolt™ 4 with USB4 Type-C® 40Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4) ¹³
Input devices	HP Premium Keyboard – spill-resistant, optional backlit keyboard with numeric keypad ¹² ; Clickpad with multi-touch gesture support;
Communications	Integrated 10/100/1000 GbE NIC; Realtek 10/100/1000 GbE NIC ¹⁰ ; Intel® 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 combo, non-vPro®; Intel® AX201 Wi-Fi 6 (2x2) and Bluetooth® 5 combo, non-vPro®;
Camera	720p HD camera; IR Camera ¹¹
Software	HP Connection Optimizer; HP Image Assistant; HP Hotkey Support; HP Noise Cancellation Software; HP Support Assistant; HP Power Manager; myHP; HP Privacy Settings; HSA Fusion for Commercial; HSA Telemetry for Commercial; Touchpoint Customizer for Commercial; HP Notifications ^{17,18}
Security management	Absolute persistence module; HP Secure Erase; TPM 2.0 embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP Sure Click; Windows Defender; HP BIOSphere Gen5; HP Sure Sense; Support for chassis padlocks and cable lock devices; HP Sure Start Gen6; HP Sure Admin; HP Sure Run Gen4; HP Sure Recover Gen4; HP Client Security Manager Gen7; NVMe DriveLock; Pre-Boot Security; BIOS update (Status) over Wi-fi ²³ ,24,25,26,27,28,29,30,31,32,33,34,35
Security Software Licenses	HP Wolf Pro Security Edition ⁵⁶
Fingerprint reader	Fingerprint sensor (select models)
Management features	HP Driver Packs; HP System Software Manager (SSM); HP BIOS Config Utility (BCU); HP Client Catalog; HP Manageability Integration Kit Gen3 ^{21,22}
Power	HP Smart 65 W External AC power adapter; HP Smart 45 W External AC power adapter; HP Smart 65 W USB Type-C® adapter; HP Smart 45 W USB Type-C® adapter ³⁷
Battery type	HP Long Life 3-cell, 45 Wh polymer ³⁶
Dimensions	35.94 x 23.39 x 1.99 cm
Weight	Starting at 1.74 kg (Weight will vary by configuration.)
Energy efficiency compliance	ENERGY STAR® certified; EPEAT® registered where applicable. EPEAT registration varies by country. See www.epeat.net for registration status by country. 39
Sustainable impact specifications	Low Halogen; TCO 8.0 certified ⁴⁰
Warranty	1 year standard parts and labor limited warranty (1-1-0), depending on country (upgrades available). 1 year limited warranty on primary battery.
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HP ProBook 650 G8 Notebook PC

Accessories and services (not included)

HP 65W USB-C Power Adapter



Power and charge your notebook or tablet 1 from its USB-C $^{\rm o}$ port with the HP 65W USB-C Power Adapter.

Product number: 1HE08AA

HP Wired Desktop 320MK Mouse and Keyboard



Work efficiently and enhance your everyday productivity with the reliable HP Wired Desktop 320MK Mouse and Keyboard. **Product number: 9SR36AA**

HP 3 year Next Business Day Onsite Hardware Support for Notebooks



Receive 3 years of next business day onsite HW support from an HP-qualified technician for your computing device, if the issue cannot be solved remotely.

Product number: UA6A1E

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Messaging Footnotes

- ¹ For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See http://intel.com/vpro.
- **Transport 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 Quad-core Intel® Core® processors are optional.

- Sold separately or as an optional feature

- Soptional feature that must be configured at the factory.

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Optional features must be configured at the time of purchase

9 HP Sure View Gen3 integrated privacy screen is an optional feature that must be configured at purchase and is designed to function in landscape orientation.

O HP Sure Start Gen6 is available on select HP PCs.

- "HI Sure Start Genb is available on select HI PLS.

 12 USB-C® laptops must be able to support power and video.

 13 HP Audio Module sold separately and required for audio.

 14 HP Privacy Camera only available PCs equipped with HD or IR camera and must be installed at the factory.

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

 16 Intel® ints® X® graphics requires Intel® Core™ iS or i7 processor.
- HP Wolf Security for Business requires Windows 10, 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

Technical Specifications Footnotes

- 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 10 is automatically updated, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com/.

 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

- Adultior 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 hardware and software configurations. Intel® processor is numbering, brand in maning is not a measurement of his performance products.

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

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

 6 In accordance with Microsoft's support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation and forward processors or provide any Windows 8 or Windows 7 drivers on http://www.support.hp.com.
- Due to the non-industry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. If you mix memory speeds, the system will perform at the lower memory speed. B For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes, Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for syst
- "For storage miles, to a = 1 miles on types. Actual community less. Actual community less.

- ¹² Backlit keyboard is an optional feature.
 ¹³ Thunderbolt™ 4 is only available with vPro® processors. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

- 13 Thunderbolt™ 4 is only available with PPro® processors. SuperSpeed USB 20Gbps is not available with Thunderbolt™ 4.

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

 15 Actual brightness will be lower with touchscreen or Sure View.

 16 Actual brightness will be lower with touchscreen or Sure View.

 17 HP Connection Optimizer requires Windows 10.

 18 IP Support Assistant requires Windows 10.

 18 IP Support Assistant requires Windows and Internet access.

 19 IP Driver Packs not prieristalled, however available for download at http://www.hp.com/go/clientmanagement.

 20 IP Manageability integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

 21 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/

 22 IP Manageability integration Kit can be downloaded from http://www.hp.com/go/clientmanagement.

 23 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 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/

 24 IP Drive Lock & Automatic Drive Lock is not supported on NVMe drives.

 25 IP Secure Trans For the methods outlined in the National

- *** I PPUIS VERSION TO A MINISTRATION OF THE POINT OF TH "Intel® Optane® memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor, BIOS version with Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RT) driver.

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

 44 Integrated graphics depends on processor. NUDIA® Optimus™ technology, requires an Intel processor, plus an NVDIA® Geforce® discrete graphics video and display features may not be supported on all systems (e.g. Opendic applications will run on the integrated GPU or the APU as the case may be).

 45 For full Intel® vPro® functionality, Windows 10 Pro 64 bit, a vPro supported processor, vPro enabled chipset, vPro enabled wired LAN and/or WLAN card and TPM 2.0 are required. Some functionality requires additional 3rd party software in order to run. See
- http://intel.com/upro.

 Fib PW MIG Pos Security Edition (including HP Sure Click Pro and HP Sure Sense Pro) is available preloaded on select SKUs and, depending on the HP product purchased, includes a paid 1-year or 3-year license. The HP Wolf Pro Security Edition software is licensed under the license terms of the HP Wolf Security Software End-User license Agreement (EULA) that can be found at: https://support.hp.com/us-en/document/ish_3875769-3873014-16 as that EULA is modified by the following: 77. Term. Unless otherwise terminated earlier pursuant to the terms contained in this EULA, the license for the HP Wolf Pro Security Edition (HP Sure Sense Pro and HP Sure Click Pro) is effective upon activation and will continue for either a twelve (12) month or thirty-six (36) month license term ("Initial Term"). At the end of the Initial Term you may either (a) purchase a renewal license for the HP Wolf Pro Security Edition from HP.com, HP Sales or an HP Channel Partner, or (b) continue using the standard versions of HP Sure Click and HP Sure Sense at no additional cost with no future software updates or HP Support.

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