HP ProBook 450 G5 Notebook PC

Product details

Specification	Description
Weight	Starting at 2.10 kg (4.64 lb) **NOTE:** Weight varies by configuration and components.
Dimensions (W x D x H)	**Non-Touch** 37.60 x 26.40 x 2.10 cm (14.80 x 10.40 x 0.82 in) (front and rear) **Touch** 37.60 x 26.40 x 2.30 cm (14.80 x 10.40 x 0.89 in) (front and rear) **NOTE:** Height varies depending upon where on the notebook the measurement is made.

Processors

Specification	Description
Intel Core i7-8550U	Basic frequency: 1.8 GHz Up to 3.7 GHz with Intel Turbo Boost Technology 2.0 8 MB cache 4 cores Intel UHD Graphics 620

Specification	Description
Intel Core i5-8250U	Basic frequency: 1.6 GHz Up to 3.4 GHz with Intel Turbo Boost Technology 2.0 6 MB cache 4 cores Intel UHD Graphics 620
Intel Core i3-7100U	2.6 GHz 3 MB cache 2 cores Intel HD Graphics 620
Intel Core i3-6006U	2.0 GHz 3 MB cache 2 cores Intel HD Graphics 520
Intel Celeron 3865U	1.8 GHz 2 MB cache 2 cores Intel HD Graphics 610
Chipset	Integrated with processor

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

Graphics

Specification	Description
Integrated	Intel UHD graphics 620 Intel HD graphics 620 Intel HD graphics 610 Intel HD graphics 520 NOTE: High-definition (HD) content is required to view high definition images.

Specification	Description
Discrete	NVIDIA GeForce 930MX (2 GB DDR3 dedicated memory, switchable) **NOTE:** NVIDIA technology requires an Intel processor and NVIDIA GeForce discrete graphics configuration. This technology is available on Windows 10 Professional OS. With NVIDIA Optimus technology, full enablement of all discrete graphics video and display features might not be supported on all systems (for example, OpenGL applications that are run on the integrated GPU or the APU as applicable).
Supported	HD decode DirectX 12 HDMI 1.4b

Display

Specification	Description
Internal	**eDP FHD Flat** 39.6 cm (15.6 in) diagonal FHD UWVA anti-glare flat LED backlit, 220 cd/m^2, 45% sRGB (1920 x 1080) **eDP HD Flat** 39.6 cm (15.6 in) diagonal HD SVA anti-glare LED-backlit, 220 cd/m^2, 45% sRGB (1366 x 768) 39.6 cm (15.6 in) diagonal HD SVA LED-backlit touch screen, 220 cd/m^2, 45% sRGB (1366 x 768) **NOTE:** High-definition (HD) content is required to view high definition images. Resolutions are dependent upon monitor capability, resolution and color depth settings.

Storage/drives

Specification	Description
Serial ATA drives	500 GB 7200 rpm SATA Hard drive 500 GB 5400 rpm, 8 GB cache, SATA SSHD Hard drive 1 TB 5400 rpm SATA Hard drive
M.2 2280 Solid State Drives (SSD)	128 GB SATA TLC SSD 256 GB PCIe NVMe Value SSD 512 GB PCIe NVMe TLC SSD **NOTE:** PCIe SSD not available for Celeron.

NOTE: For solid state drives or hard drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 10) is reserved for system recovery software.

Memory

Specification	Description
Standard	DDR4-2400 SDRAM (transfer rates up to 2400 MT/s) **NOTE:** System runs at 2133 MT/s (Intel 8th Gen CPU runs at 2400). (2) SODIMM slots supporting dual-channel memory (both slots are customer accessible/upgradable) Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.
Configurations	16 GB total system memory (16 GB x 1) 16 GB total system memory (8 GB x 2) 12 GB total system memory (8 GB x1 and 4 GB x1) 8 GB total system memory (8 GB x 1) 8 GB total system memory (4 GB x 2) 4 total system memory (4 GB x 1)
Maximum	Up to 32 GB

NOTE: Due to the non-industry standard nature of some third-party memory modules, only HP branded memory is recommended to ensure compatibility. If memory speeds are mixed, the system performs at the lower memory speed.

Audio/multimedia

Specification	Description
Audio	(2) Integrated audio speakers Integrated dual array microphone
Webcam	HD webcam (requires Internet access) HD IR webcam (requires Internet access) **NOTE:** High-definition (HD) content is required to view high definition images.

Keyboards/pointing devices/function keys

Specification	Description
HP premium keyboard	**Keyboard features** Full-sized island-style Spill-resistant (thin layer of Mylar film under the keyboard) Backlit (optional, for selected models only) Wireless on/off button
Touchpad	**Enabled by default (Windows 10)** 2 - finger scrolling 2 - finger zoom (pinch) On-screen Display OSD (enable/disable) 3 - finger tap - Cortana 3 - finger flick - App switch 4 - finger tap - Action Center **Disabled by default (Windows 10)** 3 - finger flick 2 - finger rotate momentum motion 1 - finger vertical scroll
Function keys	**Function keys** Esc - System information F1 - Display Switching F2 - Blank F3 - Brightness Down F4 - Brightness Up F5 - Speaker Mute F6 - Volume Down F7 - Volume Up F8 - Mic Mute F9 - Backlight Toggle (for backlit keyboard) or Blank F10 - NumLock F11 - Wi-fi Toggle F12 - Sleep
Hidden fuctions	**Hidden fuctions** Fn+R - Break Fn+S - Sys Rq Fn+C - Scroll Lock

Ports/slots

Specification	Description

Specification	Description
Ports	(1) HDMI 1.4b (HDMI cable sold separately) (1) USB 3.1 Type-C (1) USB 2.0 (powered port) (2) USB 3.1 Gen 1 (1) VGA (1) RJ-45 (1) AC power (1) Headphone/microphone combo jack
Slot	(1) Multi-format digital media reader slot (SD, SDHC, and SDXC supported)

Networking/communication

Specification	Description
Wireless LAN (WLAN)	Intel Dual Band Wireless-AC 3168 802.11a/b/g/n/ac (1x1) WiFi with Bluetooth 4.2 Combo (non-vPro) Intel Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) WiFi with Bluetooth 4.2 Combo (non-vPro) Realtek 802.11ac (1x1) WiFi with Bluetooth 4.2 Combo Realtek 802.11ac (2x2) WiFi with Bluetooth 4.2 Combo NOTE: Wireless access point and Internet service required and sold separately. Availability of public wireless access points limited. The specifications for the 802.11ac WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it might affect the ability of the notebook to communicate with other 802.11ac WLAN devices.
Broadband Wireless (WWAN)	HP lt4132 LTE/HSPA+ 4G mobile broadband module HP lt4210 LTE/HSPA+ 4G mobile broadband module NOTE: WWAN module is optional and sold separately, it requires a separately purchased service contract. Check with service provider for coverage and availability. Connection speeds vary due to location, environment, network conditions, and other factors. 4G LTE is not available on all products, in all countries/regions.
Communications	Realtek RTL8111HSH Gigabit Ethernet

Power/certifications

Specification	Description

Specification	Description
Power supply	**Adapters** (availability might vary by country/region) HP 65 W Smart AC Adapter HP 65 W Smart AC Adapter EM HP 45 W Smart AC adapter HP 45 W Smart AC adapter 2-prong (Japan only) **Power cord** 1.0 m (3.3 ft), 3-wire plug 1.8 m (6.0 ft), 3-wire plug 1.0 (3.3 ft), 2-wire plug (2-prong Japan only)
Primary battery	HP 3-cell Long Life Li-ion (48 WHr) (availability might vary by country/region) **NOTE:** Battery is internal and not replaceable by customer.
Certification and compliance	ENERGY STAR certified EPEAT Gold (registration might vary with country/region) Low Halogen **NOTE:** External power supplies, power cords, cables, and peripherals are not Low halogen. Service parts obtained after purchase might not be Low halogen.

Physical specifications

Specification	Description
Weight	Starting at 2.10 kg (4.64 lb) **NOTE:** Weight varies by configuration and components.
Dimensions (W x D x H)	Non-Touch 37.60 x 26.40 x 2.10 cm (14.80 x 10.40 x 0.82 in) (front and rear) Touch 37.60 x 26.40 x 2.30 cm (14.80 x 10.40 x 0.89 in) (front and rear) **NOTE:** Height varies depending upon where on the notebook the measurement is made.

Software/OS

Specification	Description

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Preinstalled	Windows 10 Pro 64 (recommended by HP) Windows 10 Pro 64 (National Academic License) Windows 10 Home 64 Windows 10 Home Single Language 64 Windows 10 Home 64 (National Academic License) FreeDOS 1.2
BIOS	Secure Erase NOTE: For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88. HP BIOSphere Gen4 (requires Intel 7th or 8th Generation processors) HP DriveLock/HP Automatic DriveLock BIOS Update via Network Master Boot Record Security Power On Authentication Absolute Persistence Module[1] Pre-boot Authentication
Communication/connectivity	Native Miracast Support (wireless) HP LAN-WLAN Protection HP Wireless Wakeup HP Connection Optimizer HP Velocity
HP Value Add software	HP ePrint Driver with JetAdvantage NOTE: Requires an Internet connection to HP web-enabled printer and HP ePrint account registration. HP 3D DriveGuard 6 HP Hotkey Support HP Recovery Manager HP Jumpstart HP Support Assistant (requires Windows and Internet access) HP Noise Cancellation Software
Microsoft Products	Buy Office Bing Search
Manageability	HP Driver Packs (available for download) HP System Software Manager HP BIOS Config Utility (BCU) HP Client Catalog HP Management Integration Kit for Microsoft SCCM (available for download) LANDESK Management (subscription required)

Specification	Description
Client security software	**Microsoft Defender** **NOTE:** Microsoft Defender Opt in and Internet connection required for updates. **HP Client Security Suite Gen3** HP Password Manager **NOTE:** Requires Internet Explorer (might also need add-on), Chrome, or FireFox; Windows and Intel or AMD 7th or 8th generation processors are also required. HP Security Manager (including Credential Manager and Password Manager) HP DriveLock HP Fingerprint Sensor

NOTE: [1]Absolute agent is 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. 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.

NOTE: HP Cloud Recovery download tool (Cloud Recovery Client) is available under Software and Drivers section on the support page.

Warranty information

Terms of warranty apply to the individual model purchased. To see if your HP product is still in warranty, go to the HP Product Warranty Check page.

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◯ Yes   ◯ No