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Products

Software and Drivers

Diagnostic Tools

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Business Support

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# HP ProBook 450 G5 Notebook PC Product Specifications

- Product image
- Product details
- Processors
- Graphics
- Display
- Storage/drives
- Memory
- Audio/multimedia
- Keyboards/pointing devices/function keys
- Ports/slots
- Networking/communication
- Power/certifications
- Physical specifications
- Software/OS
- Warranty information

## Product image





## HP ProBook 450 G5 Notebook PC

### Product details

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

### Processors

Specification	Description
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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
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

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Specification	Description
Intel Celeron 3865U	<p>1.8 GHz</p> <p>2 MB cache</p> <p>2 cores</p> <p>Intel HD Graphics 610</p>
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	<p>Intel UHD graphics 620</p> <p>Intel HD graphics 620</p> <p>Intel HD graphics 610</p> <p>Intel HD graphics 520</p> <p><b>NOTE:</b> High-definition (HD) content is required to view high definition images.</p>



Specification	Description
Discrete	<p>NVIDIA GeForce 930MX (2 GB DDR3 dedicated memory, switchable)</p> <p><b>NOTE:</b> 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).</p>
Supported	<p>HD decode</p> <p>DirectX 12</p> <p>HDMI 1.4b</p>

## Display

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

## Storage/drives



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

**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	<p>DDR4-2400 SDRAM (transfer rates up to 2400 MT/s)</p> <p><b>NOTE:</b> System runs at 2133 MT/s (Intel 8th Gen CPU runs at 2400).</p> <p>(2) SODIMM slots supporting dual-channel memory (both slots are customer accessible/upgradable)</p> <p>Maximized dual-channel performance requires SODIMMs of the same size and speed in both memory slots.</p>



Specification	Description
Configurations	<p>16 GB total system memory (16 GB x 1 )</p> <p>16 GB total system memory (8 GB x 2)</p> <p>12 GB total system memory (8 GB x1 and 4 GB x1)</p> <p>8 GB total system memory (8 GB x 1)</p> <p>8 GB total system memory (4 GB x 2)</p> <p>4 total system memory (4 GB x 1)</p>
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	<p>(2) Integrated audio speakers</p> <p>Integrated dual array microphone</p>
Webcam	<p>HD webcam (requires Internet access)</p> <p>HD IR webcam (requires Internet access)</p> <p><b>NOTE:</b> High-definition (HD) content is required to view high definition images.</p>

## Keyboards/pointing devices/function keys



Specification	Description
HP premium keyboard	<p><b>Keyboard features</b></p> <p>Full-sized island-style</p> <p>Spill-resistant (thin layer of Mylar film under the keyboard)</p> <p>Backlit (optional, for selected models only)</p> <p>Wireless on/off button</p>
Touchpad	<p><b>Enabled by default (Windows 10)</b></p> <p>2 - finger scrolling</p> <p>2 - finger zoom (pinch) On-screen Display OSD (enable/disable)</p> <p>3 - finger tap - Cortana</p> <p>3 - finger flick - App switch</p> <p>4 - finger tap - Action Center</p> <p><b>Disabled by default (Windows 10)</b></p> <p>3 - finger flick</p> <p>2 - finger rotate momentum motion</p> <p>1 - finger vertical scroll</p>

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Specification	Description
Function keys	<p><b>Function keys</b></p> <p>Esc - System information</p> <p>F1 - Display Switching</p> <p>F2 - Blank</p> <p>F3 - Brightness Down</p> <p>F4 - Brightness Up</p> <p>F5 - Speaker Mute</p> <p>F6 - Volume Down</p> <p>F7 - Volume Up</p> <p>F8 - Mic Mute</p> <p>F9 - Backlight Toggle (for backlit keyboard) or Blank</p> <p>F10 - NumLock</p> <p>F11 - Wi-fi Toggle</p> <p>F12 - Sleep</p>
Hidden fuctions	<p><b>Hidden fuctions</b></p> <p>Fn+R - Break</p> <p>Fn+S - Sys Rq</p> <p>Fn+C - Scroll Lock</p>

## Ports/slots

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

## Networking/communication

Specification	Description
Wireless LAN (WLAN)	<p>Intel Dual Band Wireless-AC 3168 802.11a/b/g/n/ac (1x1) WiFi with Bluetooth 4.2 Combo (non-vPro)</p> <p>Intel Dual Band Wireless-AC 8265 802.11a/b/g/n/ac (2x2) WiFi with Bluetooth 4.2 Combo (non-vPro)</p> <p>Realtek 802.11ac (1x1) WiFi with Bluetooth 4.2 Combo</p> <p>Realtek 802.11ac (2x2) WiFi with Bluetooth 4.2 Combo</p> <p><b>NOTE:</b> 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.</p>



Specification	Description
Broadband Wireless (WWAN)	<p>HP lt4132 LTE/HSPA+ 4G mobile broadband module</p> <p>HP lt4210 LTE/HSPA+ 4G mobile broadband module</p> <p><b>NOTE:</b> 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.</p>
Communications	Realtek RTL8111HSH Gigabit Ethernet

## Power/certifications

Specification	Description
Power supply	<p><b>Adapters</b>(availability might vary by country/region)</p> <p>HP 65 W Smart AC Adapter</p> <p>HP 65 W Smart AC Adapter EM</p> <p>HP 45 W Smart AC adapter</p> <p>HP 45 W Smart AC adapter 2-prong (Japan only)</p> <p><b>Power cord</b></p> <p>1.0 m (3.3 ft), 3-wire plug</p> <p>1.8 m (6.0 ft), 3-wire plug</p> <p>1.0 (3.3 ft), 2-wire plug (2-prong Japan only)</p>



Specification	Description
Primary battery	<p>HP 3-cell Long Life Li-ion (48 WHr) (availability might vary by country/region)</p> <p><b>NOTE:</b> Battery is internal and not replaceable by customer.</p>
Certification and compliance	<p>ENERGY STAR certified</p> <p>EPEAT Gold (registration might vary with country/region)</p> <p>Low Halogen</p> <p><b>NOTE:</b> External power supplies, power cords, cables, and peripherals are not Low halogen. Service parts obtained after purchase might not be Low halogen.</p>

## Physical specifications

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

## Software/OS



Specification	Description
Preinstalled	<p>Windows 10 Pro 64 (recommended by HP)</p> <p>Windows 10 Pro 64 (National Academic License)</p> <p>Windows 10 Home 64</p> <p>Windows 10 Home Single Language 64</p> <p>Windows 10 Home 64 (National Academic License)</p> <p>FreeDOS 1.2</p>
BIOS	<p>Secure Erase</p> <p><b>NOTE:</b> For the methods outlined in the National Institute of Standards and Technology Special Publication 800-88.</p> <p>HP BIOSphere Gen4 (requires Intel 7th or 8th Generation processors)</p> <p>HP DriveLock/HP Automatic DriveLock</p> <p>BIOS Update via Network</p> <p>Master Boot Record Security</p> <p>Power On Authentication</p> <p>Absolute Persistence Module<sup>1</sup></p> <p>Pre-boot Authentication</p>
Communication/connectivity	<p>Native Miracast Support (wireless)</p> <p>HP LAN-WLAN Protection</p> <p>HP Wireless Wakeup</p> <p>HP Connection Optimizer</p> <p>HP Velocity</p>



Specification	Description
HP Value Add software	<p>HP ePrint Driver with JetAdvantage</p> <p><b>NOTE:</b> Requires an Internet connection to HP web-enabled printer and HP ePrint account registration.</p> <p>HP 3D DriveGuard 6</p> <p>HP Hotkey Support</p> <p>HP Recovery Manager</p> <p>HP Jumpstart</p> <p>HP Support Assistant (requires Windows and Internet access)</p> <p>HP Noise Cancellation Software</p>
Microsoft Products	<p>Buy Office</p> <p>Bing Search</p>
Manageability	<p>HP Driver Packs (available for download)</p> <p>HP System Software Manager</p> <p>HP BIOS Config Utility (BCU)</p> <p>HP Client Catalog</p> <p>HP Management Integration Kit for Microsoft SCCM (available for download)</p> <p>LANDESK Management (subscription required)</p>

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Specification	Description
Client security software	<p data-bbox="517 241 735 271"><b>Microsoft Defender</b></p> <p data-bbox="517 304 1461 405"><b>NOTE:</b> Microsoft Defender Opt in and Internet connection required for updates.</p> <p data-bbox="517 463 892 492"><b>HP Client Security Suite Gen3</b></p> <p data-bbox="517 539 804 568">HP Password Manager</p> <p data-bbox="517 624 1422 741"><b>NOTE:</b> Requires Internet Explorer (might also need add-on), Chrome, or FireFox; Windows and Intel or AMD 7th or 8th generation processors are also required.</p> <p data-bbox="517 804 1362 875">HP Security Manager (including Credential Manager and Password Manager)</p> <p data-bbox="517 922 687 952">HP DriveLock</p> <p data-bbox="517 999 799 1028">HP Fingerprint Sensor</p>

**NOTE:** <sup>1</sup> 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](#).

### Additional support options





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