HP ProBook 450 G6 Notebook PC

Power, style, and value—just what your growing business needs.

Full-featured, thin, and light, the HP ProBook 450 lets professionals stay productive in the office and on the go. Stylish design plus optional quad-core performance and long battery life make this HP ProBook essential for today’s workforce.

Affordable and stylish ultrathin design
- The HP ProBook 450 delivers stylish design to every business. An ultrathin chassis with crisp lines, clean edges, and a refined natural silver finish holds the near borderless display that opens 180°, making it easy to share content.

Security, durability, connectivity.
- Your growing business requires a PC with business-class features. The secure HP ProBook 450 is enhanced with a range of security features and built with a durable chassis and connectivity options that can be specifically tailored to your needs.

Powerful processing
- Get through your deadline-driven, multi-tasking day using the HP ProBook 450, available with the latest optional 8th Gen quad-core Intel® Core™ processor*, optional NVIDIA® GeForce® discrete graphics**, and a long battery life.
- Be productive in any situation. Experience the new features of Windows 10 Pro on the thin, light, touch-optional HP ProBook 450.
- The HP ProBook 450 delivers design, quality, and durability to every business. An ultrathin chassis in a refined, new, natural silver finish includes a 3D forged aluminum keyboard deck and durable stamped aluminum cover.
- Keep productivity high and downtime low with HP BIOSphere Gen4 firmware-level automation. Your PCs have extra protection thanks to automatic updates and security checks.
- Fortify your security by using multiple factors of authentication including fingerprints and facial recognition.
- Get the best of both worlds with dual solid-state and hard drive storage options from HP.
- Stay connected with HP Connection Optimizer self-healing wireless driver technology and support for the latest global 4G LTE wireless broadband technology.
- Quickly transition to your desk on the HP ProBook 450 with support for one cable docking via a USB-C™ data connection to optional docks.
- Work and play with long battery life and recharge up to 50% battery life in just 30 minutes with HP Fast Charge.
- Stand up to the workload with an HP ProBook that passed the MIL-STD 810G testing.
## Available Operating Systems
Windows 10 Pro 64 – HP recommends Windows 10 Pro for business
Windows 10 Pro (National Academic only)
Windows 10 Home 64
Windows 10 Home Single Language 64
FreeDOS

## Processor family
8th Generation Intel® Core™ i7 processor (i7-8565U); 8th Generation Intel® Core™ i5 processor (i5-8265U); 8th Generation Intel® Core™ i3 processor (i3-8145U); Intel® Celeron® processor; Intel® Pentium® processor

## Available Processors
Intel® Pentium® 5405U processor with Intel® HD Graphics 610 (1.8 GHz base frequency, 2 MB L3 cache, 2 cores); Intel® Celeron® processor; Intel® Pentium® processor

## Available Graphics

## Audio
Single digital microphone

## Wireless technologies
Intel® Dual Band Wireless-AC 9560 802.11a/b/g/n/ac (2x2) Wi-Fi® and Bluetooth® 5 Combo; BLE wireless connectivity; Intel® Wi-Fi Direct; Intel® Wi-Fi Link 802.11ac; Realtek RTL8188EE 802.11a/b/g/n 2x2 Wi-Fi® and Bluetooth® 4.0 Combo; Realtek RTL8822BE 802.11a/b/g/n/ac (2x2) Wi-Fi® with Bluetooth® 4.2 Combo; Realtek RTL8822CE 802.11a/b/g/n/ac (1x1) Wi-Fi® with Bluetooth® 4.2 Combo

## Expansion slots
1 SD (Supports SD, SDHC, SDXC)

## Ports and Connectors
2 USB 3.1 Gen 1; 1 USB 3.1 Type-C™ Gen 1 (Power delivery, DisplayPort™); 1 USB 2.0 (power port); 1 RJ-45; 1 HDMI 1.4b; 1 headphone/microphone combo; 1 AC power (Cables are not included)

## Input devices
HP Premium Spill-resistant Keyboard; Clickpad with multi-touch gesture support

## Communications
Realtek RTL8111HGS-CC 10/100/1000 GbE NIC

## Cams
720p HD camera; IR Camera

## Available Software
HP 3D DriveGuard; HP Connection Optimizer; HP ePrint Driver; JetAdvantage; HP Hotkey Support; HP JumpStart; HP LAN Protection; HP Media Access Manager; HP Noise Cancellation Software; HP Support Assistant; Native Miracast support; Buy Office (Sold separately)

## Security management
Absolute Persistence Module; Credential Manager; HP BIOSphere Gen3; HP Device Access Manager; HP DriveLock and Automatic DriveLock; HP Fingerprint Sensor; HP Password Manager; HP Secure Erase; HP Security Manager; Power-on authentication; Preboot authentication; TPM 2.0, embedded security chip shipped with Windows 10 (Common Criteria EAL4+ Certified); HP Sure Click; HP Wireless Watchdog; HP Client Security Gen3; RMM configurations; Windows Defender

## Management features
HP Driver Packs; HP System Software Manager (SSM); HP BIOS Update Utility (BIOS); HP Client Catalog; HP Manageability Integration Kit Gen1; Lane Management Suite

## Power
HP Smart 65 W USB Type-C™ adapter; HP Smart 65 W External AC power adapter; HP Smart 65 W EM External AC power adapter; HP Smart 45 W USB Type-C™ adapter; HP Smart 45 W External AC power adapter

## Battery type
3-cell HP Long Life Lithium Polymer Soft Pack Battery 45 Whr

## Battery life
Up to 12 hours and 30 minutes

## Dimensions
17.96 in (45.6 cm) x 10.5 in (26.7 cm)

## Weight
Starting at 2.3 kg (Weight will vary by configuration)

## Energy efficiency compliance
ENERGY STAR® certified; EPEAT® Gold

## Environmental specifications
Low halogens; TCO 5.0 Certified

## Warranty
HP Services offers 1-year limited warranties and 90 day software limited warranty options depending on country. Batteries have a default one year limited warranty except for Long Life batteries which will have same 1-year or 3-year limited warranty as the platform. 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/cptc.
**HP ProBook 450 G6 Notebook PC**

**Accessories and services (not included)**

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<thead>
<tr>
<th>Product</th>
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<tbody>
<tr>
<td>HP USB-C Mini Dock</td>
<td>Be productive on the go with streamlined, pocket-sized port expansion that's fashionable and functional. The HP USB-C™ Mini Dock has a modern, textured design and packs pass-through charging and data, video, network, and device connectivity into a compact, portable dock. Providing flexibility and wireless...</td>
<td>1PM64AA</td>
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<td>HP 17.3 Business Backpack</td>
<td>Keep your hands free and your notebook safe with the HP 17.3 Business Backpack, designed to go with you in and out of the office and on the road. It has lockable zippers, a secure RFID pocket, and room for your device up to 17.3” diagonal, phone, accessories, and so much more. Offering flexibility and wireless connectivity in the office and on the road. HP’s extensive range of notebook PCs enable increased productivity and efficiency, by providing the perfect combination of built-in mobility features to match the particular needs of individuals from businesses large and small.</td>
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<td>HP USB Essential Keyboard and Mouse</td>
<td>The HP USB Essential Keyboard/Mouse Bundle is designed to help you customize your desktop work space when you park your notebook at the office. Offering flexibility and wireless connectivity in the office and on the road. HP’s extensive range of notebook PCs enable increased productivity and efficiency, by providing the perfect combination of built-in mobility features to match the particular needs of individuals from businesses large and small.</td>
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<td>HP 65W Smart AC Adapter</td>
<td>Feed your notebook with controlled servings of electricity. HP’s new 65W Smart AC Adapter regulates power and offsets electrical spikes, is designed to reduce cable stress, and includes a special dongle to support current and prior HP models – perfect for replacing your notebook’s power adapter or as a needed back-up. Offering flexibility and wireless connectivity in the office and on the road. HP’s extensive range of notebook PCs enable increased productivity and efficiency, by providing the perfect combination of built-in mobility features to match the particular needs of individuals from businesses large and small.</td>
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<td>This HP services offers notebook users on the go prompt, reliable coverage in major geographies of the world, for 3 years. For more information on Care Pack services, please visit <a href="http://www.hp.com/go/cpc">www.hp.com/go/cpc</a>.</td>
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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. EDP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

2 The optional 2-in-1 feature is only available on select models.

3 Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

4 Multi Factor Authenticate Gen2 requires Windows 7th or 8th generation Intel® Core™ processor, Intel® integrated graphics, and Intel® Intel® Optane™ memory. Microsoft System Center Configuration Manager is required for deployment.

5 USB 3.0 speed varies depending on hardware, software and overall system configuration. No USB 3.0 device will run at more than 5Gbps in every mode. Power adapter with a minimum capacity of 65W is required. After charging has reached 50% capacity, charging will return to normal. Charging time may vary +10-20% due to system behaviors.

6 Intel®, 802.11ax is not intended to demonstrate fitness for U.S. Department of Defense contract requirements or for military use. Test results are not a guarantee of future performance under these test conditions. Accidental damage requires an optional HP Accidental Damage Protection Care Pack.

Flexible storage allows users to configure their PC to use in a variety of ways.

HP offers advanced security options to protect your PC.

The system will automatically perform updates, which is always enabled. ISP fees may apply and additional requirements may apply over time for updates. See http://www.windows.com.

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

Interrupt Turbo Boost performance varies depending on hardware, software and overall system configuration. Please see www.intel.com/technology/turbo for more information.

8 Intel® Optane™ memory system acceleration does not replace or increase the DRAM in your system. Requires 8th Gen or higher Intel® Core™ processor and Intel® Optane™ supported, Windows 10 64-bit, and an Intel® Rapid Storage Technology (Intel® RST) driver.

9 NOTE: 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 or after support.http://www.support.hp.com.

10 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.

11 For storage drives, GB = 1 billion bytes, TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB of Windows 10 is reserved for system recovery software.

12 Intel® is an optional feature. Wireless access point and Internet service required and sold separately. Availability of wireless public access points limited. The specifications for the 802.11ax WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11ax WLAN devices.

13 WLAN module is optional, must be configured at the factory and requires separately purchased service contract. Check with service provider for coverage and availability in your area. Connection speeds will vary due to location, equipment, and other factors. 4G LTE not available on all products or all regions.

14 The term “100/1000/10000" or “Gigabit" Ethernet indicates compatibility with IEEE standard 802.3ab for Gigabit Ethernet, and does not connote actual operating speed of 1 Gb/s. For high-speed transmission, connection to a Gigabit Ethernet server and network infrastructure is required.

15 HD content required to view HD images.

16 SD separately or as an optional feature.

17 Touchscreen is an optional feature that must be configured at purchase.

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

19 Storage capacity varies based on type of media and recording format.

20 HP Sure Start for the methods outlined in the National Institute of Standards and Technology Special Publication 800-88 “Clear” sanitation method.

21 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 US.

22 To the extent permitted by law, certain conditions apply. For full details visit: http://www.intel.com/communications/compromise-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 then obtain a PIN or purchase one or more RSI Security tokens from Absolute Software.

23 Some devices for academic use will automatically be updated to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary; see https://aka.ms/ProEducation for Windows 10 Pro Education feature information.

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

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26 HP recommends Windows 10 Pro.

27 Version 1703 or higher, M.2 type 2280-S1-B-M connector on a PCH Remapped PCIe Controller and Lanes in a x2 or x4 configuration with B-M keys that meet NVMe™ Spec 1.1, and an Intel® Rapid Storage Technology (Intel® RST) driver.

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32 HP Fingerprint Sensor sold separately or as an optional feature.

33 HP Password Manager requires Internet Explorer or Chrome or FireFox. Some websites and applications may not be supported. User may need to enable or allow the add-on / extension in the internet browser.

34 HP Fingerprint Sensor sold separately or as an optional feature.

35 HP Sure Start is available on most HP PCs and supports Microsoft® Internet Explorer and Chromium™. Supported attachments include Microsoft Office (Word, Excel, PowerPoint) and PDF files in read only mode, when Microsoft Office or applications are installed.

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