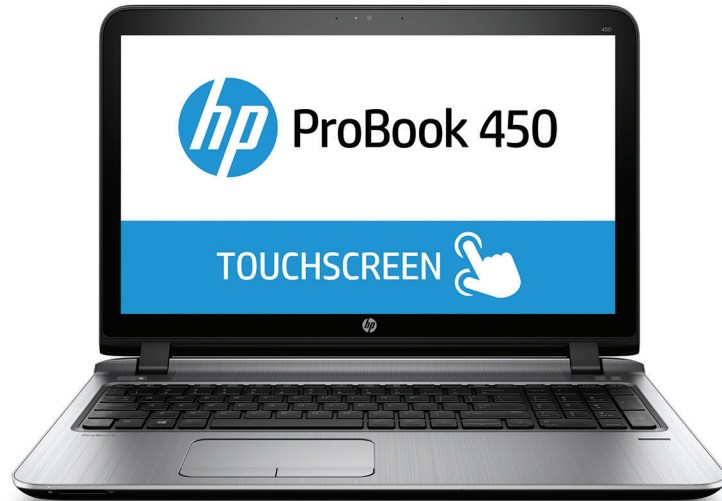


# HP ProBook 450 G3 Notebook PC



Built for productivity, the HP ProBook 450 delivers the performance and security features essential for today's workforce. The sleek and tough design provides professionals a flexible platform to stay productive in or out of the office.



- Windows 10 Pro<sup>1</sup>
- Screen Size: 15.6" diagonal

## Designed for mobility

Work in style with the powerful 15.6-inch diagonal HP ProBook 450 with a new gravity black LCD cover. Confidently take on the day with a PC that passed MIL-STD 810G testing,<sup>2</sup> built with an aluminum reinforced keyboard.

## Powerful processing

Power through projects with 6th Gen Intel® Core™ processors<sup>3</sup> and optional discrete<sup>4</sup> AMD Radeon™ graphics with switchable graphics support.<sup>5</sup>

## Safeguard data and devices

Help keep sensitive data secure with comprehensive security features like HP BIOSphere<sup>6</sup> as well as the embedded TPM.<sup>7</sup>

## Immersive experience

Enjoy the rich user experience of the HP ProBook 450 with long battery life and features designed to create a stunning visual and audio experience with options like an FHD display,<sup>4</sup> an HD touch display,<sup>4</sup> and DTS Studio Sound.™

## Featuring

- Be productive in any situation. Experience the new features of Windows 10 Pro<sup>1</sup> on the powerful, touch<sup>4</sup> optional HP ProBook 450.
- Stand up to the workload with an ProBook that passed MIL-STD 810G testing.<sup>2</sup>
- With TPM<sup>7</sup> your critical data has protection with hardware-based encryption keys.
- Help protect your ProBook from minor spills with an optional backlit<sup>4</sup> spill-resistant HP Premium Keyboard.
- Avoid surprises by tracking device health and security policy enforcement. With the HP Touchpoint Manager app, IT can quickly address risks to keep devices functional, and employees productive.<sup>8</sup>
- HP BIOSphere boosts security and keeps mission-critical data and systems under lock and key with customizable authentication and BIOS-level passwords.<sup>6</sup>
- Optimize your storage with latest high-performing storage options from HP.
- Gain fast, reliable wireless with built-in Wi-Fi and optional Bluetooth® wireless technology.<sup>9</sup>

## HP ProBook 450 G3 Notebook PC Specifications Table



<b>Available Operating System</b>	Windows 10 Pro 64 <sup>1</sup> Windows 10 Home 64 <sup>1</sup> Windows 8.1 Pro 64 <sup>1</sup> Windows 8.1 64 <sup>1</sup> Windows 7 Professional 64 (available through downgrade rights from Windows 10 Pro 64) <sup>2</sup> Windows 7 Professional 64 <sup>1</sup> FreeDOS 2.0
<b>Processor Family</b>	Intel® Core™ i7 processor; Intel® Core™ i5 processor; Intel® Core™ i3 processor; Intel® Pentium processor <sup>5</sup>
<b>Available Processors</b>	Intel® Core™ i7-6500U with Intel HD Graphics 520 (2.5 GHz, up to 3.1 GHz with Intel Turbo Boost Technology, 4 MB cache, 2 cores) Intel® Core™ i5-6200U with Intel HD Graphics 520 (2.3 GHz, up to 2.8 GHz with Intel Turbo Boost Technology, 3 MB cache, 2 cores) Intel® Core™ i3-6100U with Intel HD Graphics 520 (2.3 GHz, 3 MB cache, 2 cores) Intel® Pentium® 4405U with Intel HD Graphics 510 (2.1 GHz, 2 MB cache, 2 cores) <sup>5</sup>
<b>Chipset</b>	Chipset is integrated with processor
<b>Maximum Memory</b>	16 GB DDR3L-1600 SDRAM (Transfer rates up to 1600 MT/s)
<b>Memory Slots</b>	2 SODIMM
<b>Internal Storage</b>	500 GB SATA (7200 rpm) <sup>6</sup> 1 TB SATA (5400 rpm) <sup>6</sup> 128 GB up to 256 GB M.2 SATA TLC SSD <sup>6</sup> 500 GB SATA SSHD (5400 rpm) <sup>6</sup>
<b>Optical Drive</b>	Blu-ray ROM DVD+/-RW SuperMulti DL; DVD+/-RW SuperMulti DL; DVD-ROM <sup>7,8</sup> (option of no optical drive)
<b>Flash Cache</b>	8 GB
<b>Display</b>	15.6" diagonal HD anti-glare flat LED-backlit (1366 x 768); 15.6" diagonal full HD anti-glare slim LED-backlit (1920 x 1080); 15.6" diagonal HD flat LED-backlit touch screen (1366 x 768) <sup>13</sup>
<b>Available Graphics</b>	Integrated: Intel® HD Graphics 510; Intel® HD Graphics 520 (Integrated graphics depends on processor)
<b>Audio</b>	HD audio with DTS Studio Sound™; Two stereo speakers; Integrated microphone (dual-microphone array when equipped with optional webcam); Headphone/microphone combo jack
<b>Wireless Technologies</b>	Realtek 802.11b/g/n (1x1); Realtek 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo; Broadcom 802.11b/g/n (1x1) and Bluetooth® 4.0 Combo; Broadcom 802.11a/b/g/n (2x2) and Bluetooth® 4.0 Combo; Intel® Dual Band Wireless-AC 3165 802.11a/b/g/n/ac (1x1) WiFi and Bluetooth® 4.0 Combo; Intel Dual Band Wireless-AC 8260 802.11a/b/g/n/ac (2x2) WiFi and Bluetooth® 4.2 Combo <sup>9,10,11</sup>
<b>Communications</b>	Realtek Ethernet (10/100/1000)
<b>Expansion Slots</b>	1 multi-format digital media reader (supports SD, SDHC, SDXC)
<b>Ports and Connectors</b>	2 USB 3.0; 2 USB 2.0; 1 HDMI; 1 headphone/microphone combo; 1 AC power; 1 RJ-45; 1 VGA
<b>Input Device</b>	HP Premium Keyboard, full-sized, spill resistant with numeric keypad; Full-sized, spill resistant backlit keyboard with numeric keypad (optional); Touchpad with on/off button, taps enabled as default, support multi gestures, two-finger scroll, pinch/zoom, edge swipe
<b>Camera</b>	720p HD webcam (select models) <sup>13</sup>
<b>Available Software</b>	Absolute Persistence; HP Drive Encryption; HP Security Manager; Microsoft Security Essentials; Microsoft Defender; Validity Fingerprint Driver; HP SoftPaq Download Manager; CyberLink Power2Go; CyberLink PowerDVD; CyberLink YouCam; HP Connection Manager; HP GPS and Location; HP Mobile Connect; Intel® WiDi Software; HP 3D DriveGuard; HP Recovery Manager; HP Support Assistant; Foxit PhantomPDF Express <sup>14,15,16,17</sup>
<b>Security Management</b>	Standard: HP Client Security, Microsoft Defender (models with Windows 8), Drive Encryption, HP BIOS Protection, Security lock slot, TPM; Optional: HP Fingerprint Reader, Microsoft Security Essentials (models with Windows 7) <sup>17,18</sup>
<b>Power</b>	45 W Smart AC adapter; 65 W Smart AC adapter 4-cell, 44 Whr Li-ion; 6-cell, Long Life 55 Whr Li-ion 4-cell, 44 Wh models with DDR4, Windows 10, MM14: up to 9 hours and 30 minutes 6-cell, 55 Wh models with DDR4, Windows 10, MM14: up to 13 hours 30 minutes <sup>20</sup>
<b>Dimensions</b>	14.88 x 10.41 x 0.94 to 0.98 in (front to rear) (non-touch); 14.88 x 10.42 x 1 to 1.04 in (front to rear) (touch) 37.8 x 26.43 x 2.38 to 2.48 cm (front to rear) (non-touch); 37.8 x 26.46 x 2.55 to 2.65 cm (front to rear) (touch)

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<b>Weight</b>	Starting at 4.56 lb Starting at 2.07 kg (Lowest weight configuration. Weight will vary by configuration. See QuickSpecs.)
<b>Environmental</b>	Low halogen <sup>19</sup>
<b>Energy Efficiency Compliance</b>	ENERGY STAR® certified configurations available; EPEAT® Gold registered. EPEAT® registered where applicable. EPEAT registration varies by country. See <a href="http://www.epeat.net">www.epeat.net</a> for registration status by country.
<b>Warranty</b>	HP Services offers a 1 year standard commercial warranty; 1 year limited warranty on primary battery. On-site service and optional HP Care Pack Services are available to extend your protection beyond the standard warranty.

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## HP ProBook 450 G3 Notebook PC

### Accessories and services (not included)

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#### HP 45W Smart AC Adapter



Be productive throughout the day and keep an extra adapter on hand with the lightweight and versatile HP 45W Smart AC Adapter.

**Product number: H6Y88AA**

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#### HP 65W Smart AC Adapter



Smart AC power adapters from HP power your notebook and charge the internal battery simultaneously. These adapters provide you with the ability to power your notebook when away from the office or on the road.

**Product number: H6Y89AA**

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#### HP Ultra Mobile Wireless Mouse



Low-profile, long-life, and designed for comfort.

Here's the long-life wireless mouse that's so compact you can toss it in your carrying case without bulking out its profile, so power-smart it keeps up with your work day, and so comfortable you'll look for reasons to use it.

**Product number: H6F25AA**

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#### HP 3001pr USB 3.0 Port Replicator



Meet your go-to, platform-independent hot-desking solution for getting online and connecting to a single external display<sup>1,2</sup> and up to three USB-connected devices.<sup>1,3</sup>

**Product number: F3S42AA**

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#### HP Business Backpack



A backpack designed with the businessman or woman in mind. It has room for the largest HP 17.3" notebook and plenty of space for additional papers and accessories

**Product number: H5M90AA**

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#### HP Business Top Load Case



Comfortably carry your notebook and everyday accessories in the stylish and durable HP Business Top Load Case.

**Product number: H5M92AA**

## Messaging Footnotes

- <sup>1</sup> Not all features are available in all editions or versions of Windows. Systems may require upgraded and/or separately purchased hardware, drivers and/or software 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.microsoft.com>.
- <sup>2</sup> MIL STD 810G testing 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. Damage under the MIL STD test conditions or any accidental damage requires an optional HP Accidental Damage Protection Care Pack.
- <sup>3</sup> 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 is not a measurement of higher performance.
- <sup>4</sup> Sold separately or as an optional feature.
- <sup>5</sup> AMD Dynamic Switchable Graphics technology requires either an AMD "A" series APU or an Intel processor, plus an AMD Radeon™ discrete graphics configuration and is not available on FreeDOS and Linux OS. With AMD Dynamic Switchable Graphics 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).
- <sup>6</sup> HP BIOSphere features may vary depending on the PC platform and configurations.
- <sup>7</sup> Firmware TPM is version 2.0. Hardware TPM is v1.2, which is a subset of the TPM 2.0 specification version v0.89 as implemented by Intel Platform Trust Technology (PTT).
- <sup>8</sup> HP Touchpoint Manager supports Android™, iOS and Windows operating systems and PCs, notebooks, tablets and smartphones from various manufacturers. Not available in all countries see [www.hp.com/touchpoint](http://www.hp.com/touchpoint) for availability information. Touchpoint Manager requires purchase of a subscription. Out-of-band HP only Wipe, Lock, Unlock and reporting of BIOS boot error codes is available on select HP EliteBooks and select HP Elite x2 devices requires an internet connection, Intel® vPro™ technology and functions in S3/Sleep, S4/Hibernate and S5/Soft Off power states. SATA drives are wiped. The remote wipe of Self Encrypting Drives that have hardware encryption active is not supported. Some features require a Pro subscription.
- <sup>9</sup> Wireless and Bluetooth may be optional features. Wireless requires separately purchased access point and internet service. Availability of public wireless access points limited.

## Technical Specifications Footnotes

- <sup>1</sup> 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.microsoft.com>.
- <sup>2</sup> This system is preinstalled with Windows 7 Professional software and also comes with a license and media for Windows 10 Pro 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.
- <sup>3</sup> Japan only for select configurations
- <sup>5</sup> 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. 64-bit computing system required. Performance will vary depending on your hardware and software configurations. Intel's numbering is not a measurement of higher performance.
- <sup>6</sup> For storage drives, GB = 1 billion bytes. TB = 1 trillion bytes. Actual formatted capacity is less. Up to 30 GB (for Windows 8.1 and 10) is reserved for system recovery software.
- <sup>7</sup> Double-layer discs can store more data than single layer discs. However, double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. Note that this drive cannot read or write to 2.6 GB single-sided/5.2 GB double-sided – version 1.0 media. Don't copy copy-right protected materials.
- <sup>8</sup> With Blu-Ray certain disc, digital connection, compatibility and/or performance issues may arise, and do not constitute defects in the product. Flawless playback on all systems is not guaranteed. In order for some Blu-ray titles to play, they may require a DVI or HDMI digital connection and your display may require HDCP support. HD-DVD movies cannot be played on this Blu-Ray drive.
- <sup>9</sup> Wireless is an optional add-on feature and requires wireless access point and Internet service. Availability of public wireless access points limited.
- <sup>10</sup> The specifications for the 5G WiFi aka 802.11ac 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 802.11ac WLAN devices. Wireless access point and Internet service required and not included. Availability of public wireless access points limited.
- <sup>11</sup> Mobile Broadband is an optional feature and requires factory configuration. Use 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, and in all regions.
- <sup>12</sup> AMD Dynamic Switchable Graphics technology requires either an AMD "A" series APU or an Intel processor, plus optional AMD Radeon™ discrete graphics configuration and is not available on FreeDOS and Linux OS. With AMD Dynamic Switchable Graphics 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).
- <sup>13</sup> HD content required to view HD images.
- <sup>14</sup> HP Mobile Connect is available in select EMEA countries and requires a compatible CDMA or HSPA mobile broadband module and prepaid service purchase. Find coverage and availability for your service area at [www.hp.com/go/mobileconnect](http://www.hp.com/go/mobileconnect).
- <sup>15</sup> BIOS Absolute Persistence module is shipped turned off, and will be activated when customers purchase and activate a subscription. Service may be limited. Check with Absolute for availability outside the U.S. The optional subscription service of Absolute Recovery Guarantee is a limited warranty. Certain conditions apply. For full details visit: <http://www.absolute.com/company/legal/agreements/computrace-agreement>. If Data Delete is utilized, the Recovery Guarantee payment is null and void. In order to use the Data Delete service, customers must first sign a Pre-Authorization Agreement and either create a PIN or purchase one or more RSA SecurID tokens from Absolute Software.
- <sup>16</sup> HP Support Assistant: Internet access required.
- <sup>17</sup> HP Drive Encryption requires Windows. Data is protected prior to Drive Encryption login. Turning the PC off or into hibernate logs out of Drive Encryption and prevents data access.
- <sup>18</sup> Microsoft Defender (Windows 8 only).
- <sup>19</sup> External power supplies, power cords, cables and peripherals are not low halogen. Service parts obtained after purchase may not be low halogen.
- <sup>20</sup> Windows 10 MM14 battery life will vary depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery will naturally decrease with time and usage. See [www.bapco.com](http://www.bapco.com) for additional details.

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