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HP ProBook 450 G6 Notebook PC Specifications

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Operating systems

Specification	Description
Preinstalled	Windows 10 Pro 64 (National Academic only) **NOTE:** Some devices for academic use automatically update to Windows 10 Pro Education with the Windows 10 Anniversary Update. Features vary. Windows 10 Pro 64 Windows 10 Home 64 Windows 10 Home Single Language 64 **NOTE:** Not all features are available in all editions or versions of Windows. Systems might require upgraded and/or separately purchased hardware, drivers, software or BIOS update to take full advantage of Windows functionality. Windows 10 automatic updates are always enabled. ISP fees might apply and additional requirements might apply over time for updates. Windows 10 Government Edition V0 China Only FreeDOS 1.2

NOTE: In accordance with Microsoft support policy, HP does not support the Windows 8 or Windows 7 operating system on products configured with Intel and AMD 7th generation or later processors, or provide any Windows 8 or Windows 7 drivers.

Processors

Specification	Description
Intel Core i7-8565U processor	1.8 GHz base frequency, up to 4.6 GHz with Intel Turbo Boost Technology 8 MB L3 cache and 4 cores Intel UHD Graphics 620
Intel Core i7+ 8565U processor	1.8 GHz base frequency, up to 4.6 GHz with Intel Turbo Boost Technology 16 GB Intel Optane memory 8 MB L3 cache and 4 cores Intel UHD Graphics 620
Intel Core i5-8265U processor	1.6 GHz base frequency, up to 3.9 GHz with Intel Turbo Boost Technology 6 MB L3 cache and 4 cores Intel UHD Graphics 620
Intel Core i5+ 8265U processor	1.6 GHz base frequency, up to 3.9 GHz with Intel Turbo Boost Technology 16 GB Intel Optane memory 6 MB L3 cache and 4 cores Intel UHD Graphics 620

Intel Core i3-8145U processor	2.1 GHz base frequency, up to 3.9 GHz with Intel Turbo Boost Technology 4 MB L3 cache and 2 cores Intel UHD Graphics 620
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 **NOTE:** High-definition (HD) content is required to view high definition images.
Discrete	NVIDIA GeForce MX130 (2 GB DDR5 dedicated) **NOTE:** NVIDIA Optimus technology requires an Intel processor, plus an NVIDIA GeForce discrete graphics configuration and is available on Windows 10 Pro 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 will run on the integrated GPU or the APU as the case may be).
	HD decode

Supports	DirectX 12
	HDMI 1.4b up to 4K 30 Hz
	CUDA
	Optimus
	PhysX
	GPU Boost 2.0

Display

Specification	Description
Internal	**Non-touch**
	39.6 cm (15.6 in) diagonal HD SVA eDP anti-glare LED-backlit Ultraslim, 220 cd/m², 67% sRGB for two WLAN antennas (1366 x 768)
	39.6 cm (15.6 in) diagonal HD SVA eDP anti-glare LED-backlit Ultraslim, 220 cd/m^2, 67% sRGB for HD camera and one WLAN antenna (1366 x 768)
	39.6 cm (15.6 in) diagonal HD SVA eDP anti-glare LED-backlit Ultraslim, 220 cd/m^2, 67% sRGB for HD camera and two WLAN antennas (1366 x 768)
	39.6 cm (15.6 in) diagonal HD SVA eDP anti-glare LED-backlit Ultraslim, 220 cd/m^2, 67% sRGB for HD+IR camera and two WLAN antennas (1366 x 768)
	39.6 cm (15.6 in) diagonal FHD UWVA eDP anti-glare LED-backlit Ultraslim, 220 cd/m², 67% sRGB for two WLAN antennas (1366 x 768)
	39.6 cm (15.6 in) diagonal FHD UWVA eDP anti-glare LED-backlit slim, 220 cd/m^2, 67% sRGB for HD camera and one WLAN antenna (1920 x 1080)
	39.6 cm (15.6 in) diagonal FHD UWVA eDP anti-glare LED-backlit slim, 220 cd/m^2, 67% sRGB for HD+IR camera and two WLAN antennas (1920 x 1080)
	39.6 cm (15.6 in) diagonal FHD UWVA eDP anti-glare LED-backlit slim, 220 cd/m^2, 67% sRGB for two WLAN antennas (1920 x 1080)
	Touch

39.6 cm (15.6 in) diagonal HD SVA eDP anti-glare LED-backlit slim touch screen, 220 cd/m^2, 67% sRGB for HD camera and two WLAN antennas (1366 x 768)

> **NOTE:** Sold separately or as an optional feature.

> **NOTE:** High-definition (HD) content is required to view high definition images. Resolutions are dependent upon monitor capability, and resolution and color depth settings.

HDMI	Supports resolutions up to 4K at 60 Hz

Storage/drives

Specification	Description
Primary M.2 Solid State Drive storage	128 GB SATA-3 TLC SSD 256 GB PCIe Gen 3x4 NVMe Value TLC SSD 512 GB PCIe Gen 3x4 NVMe TLC SSD
Primary SATA Hard drives	500 GB 7200 RPM 1 TB 5400 RPM

> **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. PCIe SSD not available for Celeron.

Memory

Specification	Description

Standard	DDDR4-PC4 SODIMMS Supports dual-channel memory (2) Dual-channel SODIMM slots (both slots are customer accessible/upgradable) Runs at 2400 MT/s for Intel 8th generation processors
Configurations	32 GB DDR4-2400 SDRAM (16 GB x 2) 16 GB DDR4-2400 SDRAM (16 GB x 1) 16 GB DDR4-2400 SDRAM (8 GB x 2) 12 GB DDR4-2400 SDRAM (8 GB x 1 and 4 GB x 1) 8 GB DDR4-2400 SDRAM (8 GB x 1) 8 GB DDR4-2400 SDRAM (4 GB x 2) 4 GB DDR4-2400 SDRAM (4 GB x 1)
Maximum	32 GB DDR4-2400 SDRAM

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

Ports/slots

Specification	Description
	(1) USB 3.1 Type-C Gen 1 (Power Delivery, DisplayPort) (2) USB 3.1 Gen 1 (1) USB 2.0 (Powered port) (1) HDMI 1.4b

Ports	(1) RJ-45/Ethernet port
	(1) Headphone/microphone combo jack
	(1) AC power port
	NOTE: HDMI cable sold separately.
Slot	(1) SD Card reader
	NOTE: Supports SD, SDHC, and SDXC.

Networking/communication

Specification	Description
Wireless LAN (WLAN)	Intel Dual Band Wireless-AC 9560 802.11ac (2x2) WLAN and Bluetooth 5 Combo, non-vPro Realtek RTL8821CE 802.11ac (1x1) WLAN and Bluetooth 4.2 Combo Realtek RTL8822BE 802.11ac (2x2) WLAN and Bluetooth 4.2 Combo **NOTE:** Wireless access point and Internet service is required and is not included. 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.
Ethernet	Realtek RTL8111HSH-CG 10/100/1000 GbE NIC **NOTE:** The term "10/100/1000" 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.

Audio/multimedia

Specification	Description
Audio	Integrated microphone (mono or dual-array) (2) Integrated stereo speakers
Speaker power	2 W/4 ohm per speaker
Camera (optional)	720p HD and IR Camera **NOTE:** Sold separately or as an optional feature. 720p HD HP Camera **NOTE:** High-definition (HD) content is required to view high definition images.

Keyboards/pointing devices/function keys

Specification	Description
HP Premium keyboard	Spill-resistant with optional backlit function
Pointing device	Clickpad with multi-touch gesture support
	Function keys

Function keys	ESC – System information
	F1 – Display switching
	F2 – Blank
	F3 – Brightness down
	F4 – Brightness up
	F5 – Audio mute
	F6 – Volume down
	F7 – Volume up
	F8 – Microphone mute
	F9 – Blank or backlight toggle (for backlit keyboard)
	F10 – Blank
	F11 – Wi-Fi toggle
	F12 – Sleep
	Hidden functions
	Fn+R - Break
	Fn+S - System Rq
	Fn+C - Scroll Lock

Software/security

Specification	Description
	HP BIOSphere Gen4 (requires Intel 8th generation processors)
	HP DriveLock/HP Automatic DriveLock
	BIOS Update via Network
	Power On Authentication

BIOS	Secure Erase (methods outlined in the National Institute of Standards and Technology Special Publication 800-88) Pre-boot Authentication HP Wireless Wakeup Absolute Persistence Module **NOTE:** 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.
Communication/connectivity	HP Native Miracast support HP LAN-Wireless Protection HP Connection Optimizer
HP Value add software	HP 3D DriveGuard HP PhoneWise HP Hotkey Support - CMIT HP Recovery Manager HP Jumpstart HP Support Assistant (requires Windows and internet access) HP Noise Cancellation software HP Host Based MAC Address Manager Ivanti Management Suite (subscription required)

Microsoft products	Buy Office (sold separately)
Manageability	HP Driver packs (available for download) HP System Software Manager (SSM) (available for download) HP BIOS Configuration Utility (BCU) (available for download) HP Client Catalog (available for download) HP Management Integration Kit for Microsoft SCCM (available for download) NOTE: For more information about manageability software, go to the HP Client Management Solutions webpage. Ivanti Management Suite
Client Security software	HP Client Security Suite Gen4 HP Security Manager (including Credential Manager and HP Password Manager, and HP Spare Key) NOTE: HP Password Manager requires Internet Explorer or Chrome or Firefox. Some websites and applications might not be supported. User might need to enable or allow the add-on/extension in the internet browser. HP Fingerprint Sensor (sold separately or as an optional feature) HP Power On Authentication HP Device Access Manager HP Sure Click (supports Microsoft Internet Explorer and Chromium) Microsoft Defender (opt in and internet connection required for updates)
Security	For Windows 10, Trusted Platform Module (TPM) 2.0 (Infineon SLB9670) Common Criteria EAL4+ Certified NOTE: For more information about security software and features, go to the HP

Client Security Software Suite webpage.

Other standard security features	SATA 0 and 1 port disablement (via BIOS) RAID (optional and requires a second hard drive) Serial, USB enable/disable (via BIOS) Power-on password (via BIOS) Setup password (via BIOS) Support for chassis padlocks and cable lock devices Integrated hood sensor Security lock slot (lock sold separately)

Power

Specification	Description
Power supply	**Adapters** HP Smart 65 W External AC power adapter HP Smart 65 W EM External AC power adapter HP Smart 65 W USB Type-C adapter HP Smart 45 W External AC power adapter HP Smart 45 W USB Type-C adapter **Power cords** 3-wire plug - 1 m (3.28 ft) 3-wire plug - 1.8 m (5.9 ft) 2-wire plug - 1 m (3.28 ft)

	Duckhead power cord - 1 m (3.28 ft)
	Duckhead power cord - 1.8 m (5.9 ft)
	NOTE: Availability might vary by country/region.
Primary battery	HP Long Life 3-cell, 45 Wh Li-ion
	NOTE: Battery is internal and not replaceable by customer. Windows 10 MM14 battery life varies depending on various factors including product model, configuration, loaded applications, features, use, wireless functionality, and power management settings. The maximum capacity of the battery naturally decreases with time and usage.
Battery weight	0.22 kg (0.49 lb)

Physical specifications

Specification	Description
Weight	Starting at 2.0 kg (4.41 lb) **NOTE:** Weight varies by configuration and components.
Dimensions (W x D x H)	36.50 x 25.68 x 1.91 cm (14.37 x 10.11 x 0.75 in)

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