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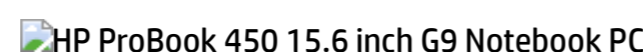


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HP ProBook 450 15.6 inch G9 Notebook PC specifications

Learn about the features and specifications of the HP ProBook 450 15.6 inch G9 Notebook PC.

 HP ProBook 450 15.6 inch G9 Notebook PC

Product details

Learn about the HP ProBook 450 15.6 inch G9 Notebook PC hardware and software. Computer features and components vary depending on the custom configuration.

OPERATING SYSTEMS

Feature	Description
Preinstalled (Windows)	<p>Windows 11 Pro</p> <p>Windows 11 Pro Education</p> <p>Windows 11 Home</p> <p>Windows 11 Home Single Language</p> <p>NOTE: HP recommends Windows 11 Pro for Business.</p> <p>Windows 11 Pro (Windows 11 Enterprise available with a Volume Licensing Agreement)</p> <p>Windows 10 Pro (available through downgrade rights from Windows 11 Pro)</p> <p>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 automatic updates are always on. ISP fees and additional requirements might apply over time for updates.</p> <p>NOTE: This system is preinstalled with Windows 10 Pro and also comes with a license for Windows 11 Pro and provision for recovery software. You can only use one version of Windows at a time. Switching between the versions requires you to uninstall one version and install the other version. Back up all data before uninstalling and installing operating systems to avoid loss of your data.</p> <p>NOTE: In accordance with Microsoft support policy, this product does not support Windows 8 or Windows 7. 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.</p>
Preinstalled (other)	FreeDOS 1.2

PROCESSORS

Feature	Description
Intel Core i7-1260P Processor	1.5 GHz Efficient-core base frequency, up to Efficient-core 3.4 GHz frequency with Intel Turbo Boost Technology 18 MB cache and 12 cores
Intel Core i5-1240P Processor	1.2 GHz Efficient-core base frequency, up to Efficient-core 3.3 GHz frequency with Intel Turbo Boost Technology 12 MB cache and 12 cores
Intel Core i7-1255U Processor	1.2 GHz Efficient-core base frequency, up to Efficient-core 3.5 GHz frequency with Intel Turbo Boost Technology 12 MB cache and 10 cores
Intel Core i5-1235U Processor	0.9 GHz Efficient-core base frequency, up to Efficient-core 3.3 GHz frequency with Intel Turbo Boost Technology 12 MB cache and 10 cores
Intel Core i3-1215U Processor	0.9 GHz Efficient-core base frequency, up to Efficient-core 3.3 GHz frequency with Intel Turbo Boost Technology 10 MB cache and 6 cores
Intel Pentium Processor 8505	0.9 GHz Efficient-core base frequency, up to Efficient-core 3.3 GHz frequency with Intel Turbo Boost Technology 8 MB cache and 5 cores
Intel Celeron Processor 7305	0.9 GHz Efficient-core base frequency 8 MB cache and 5 cores
Chipset	Integrated with the processor

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

MEMORY

Feature	Description
Standard	Supports Dual Channel Memory DDR4-3200 SDRAM (system runs at 3200 MT/s) (2) DDR4 SODIMM slots (slots are accessible/upgradeable)
Configurations	32 GB DDR4-3200 SDRAM (2 x 16 GB) 16 GB DDR4-3200 SDRAM (1 x 16 GB) 16 GB DDR4-3200 SDRAM (2 x 8 GB) 12 GB DDR4- 3200 SDRAM (1 x 8 GB and 1 x 4 GB) 8 GB DDR4-3200 SDRAM (2 x 4 GB) 8 GB DDR4-3200 SDRAM (1 x 8 GB) 4 GB DDR4-3200 SDRAM (1 x 4 GB)
Maximum	32 GB

NOTE: Due to the nonindustry standard nature of some third-party memory modules, we recommend HP branded memory to ensure compatibility. Mixing memory speeds causes the system to perform at the lower memory speed.



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GRAPHICS

Feature	Description
Integrated	Intel Iris Xe Graphics (Core i5 and Core i7) Intel UHD Graphics (Core i3) NOTE: View high definition images with High-definition (HD) content.
Discrete	NVIDIA GeForce MX570A Controller NVIDIA GeForce MX570 Controller
Supported graphics	HD decode, DirectX 12, and HDMI 2.1

DISPLAY

Feature	Description
Non-Touch display panel options	39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP, antiglare, low power, narrow bezel, bent, 400 nits, 100% sRGB (1920 x 1080) for HD TNR camera 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP with PSR antiglare, low power, narrow bezel bent, 400 nits, 100% sRGB (1920 x 1080) for HD and IR camera 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1920 x 1080) 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1920 x 1080) for HD TNR camera 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1920 x 1080) for HD and IR camera 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1920 x 1080) for HD TNR camera and WWAN 39.6 cm (15.6 in) diagonal, HD, SVA, eDP with PSR antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1366 x 768) 39.6 cm (15.6 in) diagonal, HD, SVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1366 x 768) for HD TNR camera 39.6 cm (15.6 in) diagonal, HD, SVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1366 x 768) for HD and IR camera 39.6 cm (15.6 in) diagonal, HD, SVA, eDP, antiglare, narrow bezel, bent, 250 nits, 45% NTSC (1366 x 768) for HD TNR camera and WWAN
Touch display panel options	39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP with PSR antiglare, narrow bezel, bent, touchscreen, 250 nits, 45% NTSC (1920 x 1080) for HD and IR camera 39.6 cm (15.6 in) diagonal, FHD, UWVA, eDP with PSR anti-glare, narrow bezel, bent, touchscreen, 250 nits, 45% NTSC (1920 x 1080) for HD and IR camera and WWAN

NOTE: View high definition images with High-definition (HD) content.

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

STORAGE/DRIVES

Feature	Description
M.2 Solid-State Drive storage (SSD)	1 TB PCIe NVMe M.2 TLC Solid-State Drive 512 GB PCIe NVMe M.2 Value Solid-State Drive 256 GB PCIe NVMe M.2 Value Solid-State Drive 128 GB PCIe NVMe M.2 Value Solid-State Drive
Secondary optional storage	128 GB PCIe NVMe M.2 Value Solid-State Drive 256 GB PCIe NVMe M.2 Value Solid-State Drive NOTE: Only available with systems without WWAN and Primary M.2 storage.

NOTE: For hard drives and solid-state drives, GB = 1 billion bytes and TB = 1 trillion bytes. Actual formatted capacity is less. System recovery software reserves up to 35 GB of the system space.

NETWORKING/COMMUNICATION

Feature	Description
Wireless LAN (WLAN)	Intel AX211 Wi-Fi 6E and Bluetooth 5.2 M.2 160 MHz CNVi worldwide vPro Realtek 8852BE Wi-Fi 6 and Bluetooth 5.2 M.2 2230 PCIe and USB worldwide WLAN NOTE: Wi-Fi 6E is backwards compatible with prior 802.11 specs. You require a wireless access point and internet service. Limited public wireless access points are available. The specifications for the 802.11 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 802.11 WLAN devices.
LAN (Ethernet)	Realtek RTL8111HSH 10/100/1000 Integrated NIC NOTE: The term "10/100/1000" or "Gigabit" Ethernet indicates compliance with IEEE standard 802.3ab for Gigabit Ethernet. It does not connote the actual operating speed of 1 Gb/sec. Connect to a Gigabit Ethernet server and network infrastructure for high-speed transmission.
WWAN	Intel XMM 7560 R+ LTE-Advanced Pro Cat16
NFC (Near Field Communication)	NXP NPC300 Near Field Communication Module (NFC Mirage WNC XRAV-1) NOTE: WWAN module is an optional feature, requires factory configuration, and requires separately purchased service contract. Connection speeds vary due to location, environment, network conditions, and other factors.
Miracast	Native Miracast support

PORTS/SLOTS

Feature	Description
Ports	(1) USB 3.2 Gen 2 Type-C 10 Gbps signaling rate port (USB Power Delivery, DisplayPort 1.4) (3) USB 3.2 Gen 1 Type-A 5 Gbps signaling rate ports (one powered port and one charging port) (1) AC power input port (1) HDMI 2.1 port (1) Headphone/microphone combo jack (1) RJ-45 connector

Feature	Description
Slots	(1) Nano SIM slot for WWAN (optional)

AUDIO/MULTIMEDIA

Feature	Description
Audio	(2) Integrated stereo speakers Integrated microphone (dual-array)
Camera	720p HD Camera with Temporal Noise Reduction 720p HD Camera and IR camera NOTE: View Ultra High Definition images with Ultra High-definition (UHD) content.

KEYBOARD/POINTING DEVICE

Feature	Description
HP Premium Keyboard	Spill resistant Optional backlight
Pointing device	Clickpad with multitouch gesture support
Function keys	F1: Display switching F2: No function or SureView On/off F3: Brightness down F4: Brightness up F5: Audio mute F6: Volume down F7: Volume up F8: Microphone mute F9: No function or Backlight toggle F10: Insert F11: Airplane mode F12: Programmable key Print screen Power button (with LED) Hidden keys: Fn + R: Break Fn + S: System requests Fn + C: Scroll lock

SOFTWARE/SECURITY

Feature	Description
BIOS	HP BIOSphere Gen6 HP Secure Erase Absolute Persistence Module NOTE: Activate Absolute agent firmware module by purchasing a licensed subscription. Purchase subscriptions for terms ranging multiple years. Check with Absolute for availability and warranty outside the U.S. Certain conditions apply. HP DriveLock and Automatic DriveLock BIOS Update via Network HP Wake on WLAN Secured-Core PC Enable TPM 2.0 Embedded Security Chip (Common Criteria EAL4+ Certified)
Software	HP Quick Drop HP PC Hardware Diagnostics Windows myHP HP Smart Support HP Connection Optimizer HP Hotkey Support HP Support Assistant HP Notifications HP Privacy Settings HP Power Manager Buy Microsoft Office (sold separately)
Manageability	HP Manageability Integration Kit HP Image Assistant Gen5 (available for download) HP Client Management Script Library (available for download) HP Driver Packs (available for download) HP Client Catalog (available for download)
Security	Fingerprint sensor (select models) HP Sure Click HP Sure Sense HP Sure Start Gen7 HP Tamper Lock (optional) HP Sure Admin
Other standard security features	Support for chassis padlocks and cable lock devices

POWER




Feature	Description
Power 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 NOTE: Availability might vary by country/region.


Feature	Description
Power cord	3-wire plug 1.0 m(3.28 ft) 2-wire plug 1.0 m(3.28 ft) NOTE: Availability might vary by country/region.
Primary battery	HP Long Life 3-cell, 42.75 Wh Polymer HP Long Life 3-cell, 51.3 Wh Polymer NOTE: Actual battery Watt-hours (Wh) varies from design capacity. Battery capacity naturally decreases with shelf life, time, usage, environment, temperature, system configuration (apps, features, power management settings, wireless), and other factors. NOTE: Battery is internal and not replaceable. Serviceable by warranty.
Battery life	Up to 12 hours and 15 minutes with 51 Wh battery Up to 10 hours and 30 minutes with 42 Wh battery NOTE: Battery life varies depending on the product model, configuration (apps, features, power management settings, wireless functionality), and other factors. The maximum capacity of the battery naturally decreases with time and usage.

PHYSICAL SPECIFICATIONS

Feature	Description
Weight	For 42.75 Wh battery: Starting at 1.74 kg(3.83 lb) For 51.3 Wh battery: Starting at 1.79 kg(3.96 lb) NOTE: Weight varies by configuration and components.
Dimensions (W x D x H)	35.94 x 23.39 x 1.99 cm (14.15 x 9.21 x 0.78 in)

Additional support options

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