



HP ProBook 450 G9 Intel® Core™ i5 i5-1235U Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 256 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Silver

Brand : HP

Product family: ProBook

Product code: 6A295EA

Product name : 450 G9



- Intel® Core™ i5-1235U (up to 4.4 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)
 - Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade)
 - 39.6 cm (15.6") diagonal FHD display
 - Intel® Iris® X^e Graphics
 - 16 GB memory; 256 GB SSD storage
- ProBook 450 15.6 inch G9 Notebook PC Wolf Pro Security Edition, 15.6", Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade), Intel® Core™ i5, 16GB RAM, 256GB SSD, FHD

HP ProBook 450 G9 Intel® Core™ i5 i5-1235U Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 256 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Silver:



Essential features in a modern design

The HP ProBook 450 Laptop provides growing businesses with the commercial-grade performance, HP Wolf Security for Business^[5], and durability in a compact design. This PC is powered by an Intel® processor^[2] and protected with always-on security you can trust.

Design		Ports & interfaces	
Product type *	Laptop	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Product colour *	Silver	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Form factor *	Clamshell	Ethernet LAN (RJ-45) ports	1
Market positioning	Everyday	HDMI ports quantity *	1
Country of origin	China	HDMI version	2.1b
Original brand name	HP	Combo headphone/mic port	✓
Display		Charging port type	USB Type-C
Display diagonal *	39.6 cm (15.6")	USB Type-C DisplayPort Alternate Mode	✓
Display resolution *	1920 x 1080 pixels	USB Power Delivery	✓
Touchscreen *	✗	Keyboard	
HD type	Full HD	Keyboard special features	Resistente a derrames
Panel type	IPS	Pointing device	Clickpad
Native aspect ratio	16:9	Numeric keypad *	✓
Anti-glare screen	✓	Keyboard backlit	✓
Display bezel technology	Micro-Edge	Spill-resistant keyboard	✓
Display brightness	250 cd/m ²	Input device model	Teclado HP Premium
Display diagonal (metric)	39.6 cm	Software	
RGB colour space	NTSC	Pre-installed software	HP Connection Optimizer; HP Hotkey Support; HP MAC Address Manager; HP Support Assistant; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HP Quick Touch; HP PC Hardware Diagnostics Windows
Colour gamut	45%	Operating system installed *	Windows 11 Pro
Processor		Bundled software	HP Wolf Pro Security Edition (1 year)
Processor manufacturer *	Intel	Processor special features	
Processor family *	Intel® Core™ i5	Intel Flex Memory Access	✓
Processor generation	12th gen Intel® Core™ i5	Intel Trusted Execution Technology	✓
Processor model *	i5-1235U	Intel VT-x with Extended Page Tables (EPT)	✓
Processor cores	10	Execute Disable Bit	✓
Processor threads	12		
Processor boost frequency	4.4 GHz		
Processor frequency *	1.3 GHz		
Processor cache	12 MB		
Processor cache type	L3		
Configurable TDP-down	12 W		
Memory			
Internal memory *	16 GB		

Memory		Processor special features	
Internal memory type	DDR4-SDRAM	CPU configuration (max)	1
Memory clock speed	3200 MHz	Embedded options available	✗
Memory form factor	SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory layout (slots x size)	1 x 16 GB	Intel Virtualization Technology (VT-x)	✓
Memory slots	2x SO-DIMM	Brand-specific features	
Maximum internal memory *	32 GB	HP speaker type	HP Dual Speakers
Number of free internal memory expansion slots	1	HP Connection Optimizer	✓
ECC	✗	HP Support Assistant	✓
Non-ECC	✓	HP Smart AC Adapter	✓
Storage		HP front camera	HP Privacy HD IR
Total storage capacity *	256 GB	Absolute persistence module; HP DriveLock and Automatic DriveLock; HP Secure Erase; HP Sure Click; HP Sure Sense; BIOS Update via Network; HP Sure Admin; HP BIOSphere Gen6; TPM 2.0 embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock	
Storage media *	SSD	HP Security tools	HP Client Management Script Library (download); HP Image Assistant (download); HP Driver Packs (download); HP Client Catalog (download); HP Manageability Integration Kit Gen4 (download); HP Power Manager
Total SSDs capacity	256 GB	HP Management tools	
Number of SSDs installed	1	HP segment	Business
SSD capacity	256 GB	Battery	
SSD interface	PCI Express	Battery technology	Lithium-Ion (Li-Ion)
NVMe	✓	Number of battery cells	3
SSD form factor	M.2	Battery capacity *	51 Wh
Optical drive type *	✗	Power	
Card reader integrated	✗	AC adapter power	45 W
Compatible memory cards	MicroDrive, MicroSD (TransFlash), SD, SDHC, SDXC, SxS	AC adapter frequency	50 - 60 Hz
Graphics		AC adapter input voltage	100 - 240 V
Discrete graphics card model *	Not available	Security	
On-board graphics card *	✓	Fingerprint reader	✓
On-board GPU manufacturer	Intel	Trusted Platform Module (TPM)	✓
Discrete graphics card *	✗	Trusted Platform Module (TPM) version	2.0
On-board graphics card family	Intel Iris Xe Graphics	Password protection	✓
On-board graphics card model *	Intel Iris Xe Graphics	Password protection type	BIOS, Power on, User
Audio		Certificates	
Built-in speaker(s)	✓	Low halogen	✓
Number of built-in speakers	2	Sustainability	
Built-in microphone	✓	Sustainability compliance	✓
Number of microphones	2	Sustainability certificates	ENERGY STAR
Camera		Low Halogen; Bulk packaging available; Molded paper pulp cushion inside box is 100% sustainably sourced and recyclable; Outside box and corrugated cushions are 100% sustainably sourced and recyclable; 10% post-consumer recycled plastic; Ocean-bound plastic in speaker enclosure(s)	
Front camera	✓	Sustainable technologies and materials	
Front camera signal format	720p	Weight & dimensions	
Front camera HD type	HD	Width	359.4 mm
Infrared (IR) camera	✓	Depth	233.9 mm
Network		Height	19.9 mm
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)		
Wi-Fi standards	Wi-Fi 6E (802.11ax)		
Mobile network connection *	✗		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Ethernet LAN	✓		
Ethernet LAN data rates	10,1000,100 Mbit/s		
Bluetooth	✓		
Bluetooth version	5.3		

Weight & dimensions

Weight *	1.74 kg
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Packaging data

Package width	69 mm
Package depth	520 mm
Package height	305 mm

Packaging content

Keyboard included	✓
Stylus pen	✗

Logistics data

Harmonized System (HS) code	8471300000
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Other features

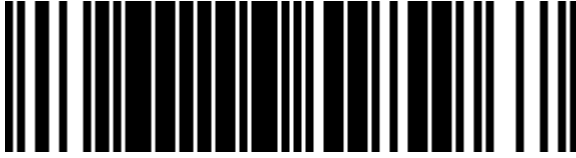
Number of speakers	2
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