



# 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: 85D69EA

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
  - 39.6 cm (15.6") diagonal FHD display
  - Intel® Iris® X<sup>e</sup> 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, 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<sup>[5]</sup>, and durability in a compact design. This PC is powered by an Intel® processor<sup>[2]</sup> and protected with always-on security you can trust.



Design		Network	
Product type *	Laptop	Antenna type	2x2
Product colour *	Silver	WLAN controller model	Intel Wi-Fi 6E AX211
Form factor *	Clamshell	WLAN controller manufacturer	Intel
Market positioning	Everyday	Ethernet LAN	✓
Introduction year	2023	Bluetooth	✓
Original brand name	HP	Bluetooth version	5.3
Display		Ports & interfaces	
Display diagonal *	39.6 cm (15.6")	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Display resolution *	1920 x 1080 pixels	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Touchscreen *	✗	Ethernet LAN (RJ-45) ports	1
HD type	Full HD	HDMI ports quantity *	1
Panel type	IPS	HDMI version	2.1b
Anti-glare screen	✓	Combo headphone/mic port	✓
Display bezel technology	Micro-Edge	Charging port type	USB Type-C
Display brightness	250 cd/m <sup>2</sup>	USB Type-C DisplayPort Alternate Mode	✓
Display diagonal (metric)	39.6 cm	USB Power Delivery	✓
RGB colour space	NTSC		
Colour gamut	45%		
Processor		Keyboard	
Processor manufacturer *	Intel	Keyboard special features	Spill-resistant
Processor family *	Intel® Core™ i5	Pointing device	Clickpad
Processor generation	12th gen Intel® Core™ i5	Numeric keypad *	✓
Processor model *	i5-1235U	Keyboard backlit	✓
Processor cores	10	Spill-resistant keyboard	✓
Processor threads	12	Input device model	HP Premium Keyboard
Processor boost frequency	4.4 GHz		
Performance cores	2	Software	
Efficient cores	8		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
Performance-core Max Turbo Frequency	4.4 GHz	Pre-installed software	
Efficient-core Max Turbo Frequency	3.3 GHz		
Processor cache	12 MB		
Processor cache type	L3		
Configurable TDP-down	12 W		

<b>Processor</b>		<b>Software</b>	
Processor base power	15 W	Operating system installed *	Windows 11 Pro
Maximum turbo power	55 W	Bundled software	HP Wolf Pro Security Edition (1 year)
<b>Memory</b>		<b>Processor special features</b>	
Internal memory *	16 GB	CPU configuration (max)	1
Internal memory type	DDR4-SDRAM	<b>Brand-specific features</b>	
Memory clock speed	3200 MHz	HP Connection Optimizer	✓
Memory form factor	SO-DIMM	HP Support Assistant	✓
Memory layout (slots x size)	1 x 16 GB	HP Smart AC Adapter	✓
Memory slots	2x SO-DIMM	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	
ECC	✗		
Non-ECC	✓	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	
<b>Storage</b>		HP Security tools	
Total storage capacity *	256 GB	HP Management tools	
Storage media *	SSD	HP segment	Business
Total SSDs capacity	256 GB	HP GTIN (EAN/UPC)	197029207852
Number of SSDs installed	1	<b>Battery</b>	
SSD capacity	256 GB	Battery technology	Lithium-Ion (Li-Ion)
SSD interface	PCI Express	Number of battery cells	3
NVMe	✓	Battery capacity *	51 Wh
Optical drive type *	✗	<b>Power</b>	
<b>Graphics</b>		AC adapter power	45 W
Discrete graphics card model *	Not available	AC adapter frequency	50 - 60 Hz
On-board graphics card *	✓	AC adapter input voltage	100 - 240 V
On-board GPU manufacturer	Intel	<b>Security</b>	
Discrete graphics card *	✗	Fingerprint reader	✓
On-board graphics card family	Intel Iris Xe Graphics	Trusted Platform Module (TPM)	✓
On-board graphics card model *	Intel Iris Xe Graphics	Trusted Platform Module (TPM) version	2.0
<b>Audio</b>		Password protection	✓
Built-in speaker(s)	✓	Password protection type	BIOS, Power on, User
Number of built-in speakers	2	<b>Sustainability</b>	
Built-in microphone	✓	Sustainability compliance	✓
Number of microphones	2	Sustainability certificates	ENERGY STAR
<b>Camera</b>		Sustainable technologies and materials	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	✓	<b>Weight &amp; dimensions</b>	
Front camera HD type	HD	Width	359.4 mm
Infrared (IR) camera	✓	Depth	233.9 mm
<b>Network</b>		Height	19.9 mm
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Weight *	1.74 kg
Wi-Fi standards	Wi-Fi 6E (802.11ax)	<b>Packaging data</b>	
Mobile network connection *	✗	Package width	69 mm
		Package depth	520 mm

<b>Packaging data</b>	
Package height	305 mm
<b>Packaging content</b>	
Stylus pen	✘
<b>Logistics data</b>	
Harmonized System (HS) code	8471300000
<b>Other features</b>	
Number of speakers	2



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