



# HP 450 G9 Intel® Core™ i5 i5-1235U Laptop 39.6 cm (15.6") Full HD 8 GB DDR4-SDRAM 256 GB SSD Wi-Fi 6E (802.11ax) Windows 11 Pro Silver

Brand : HP

Product code: 5Y4B1EA

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
  - 8 GB memory; 256 GB SSD storage
- ProBook 450 15.6 inch G9 Notebook PC, 15.6", Windows 11 Pro, Intel® Core™ i5, 8GB RAM, 256GB SSD, FHD

HP 450 G9 Intel® Core™ i5 i5-1235U Laptop 39.6 cm (15.6") Full HD 8 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>[22]</sup> 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
Introduction year	2022	HDMI version	2.1b
Country of origin	China	Combo headphone/mic port	✓
Original brand name	HP	Charging port type	USB Type-C
Display		USB Type-C DisplayPort Alternate Mode	✓
Display diagonal *	39.6 cm (15.6")	USB Power Delivery	✓
Display resolution *	1920 x 1080 pixels		
Touchscreen *	✗	Keyboard	
HD type	Full HD	Keyboard special features	Odporność na zanie
Panel type	IPS	Pointing device	Clickpad
Anti-glare screen	✓	Numeric keypad *	✓
Display bezel technology	Micro-Edge	Spill-resistant keyboard	✓
Display brightness	250 cd/m <sup>2</sup>	Full-size keyboard	✓
Display diagonal (metric)	39.6 cm	Input device model	Klawiatura HP Premium
RGB colour space	NTSC	Software	
Colour gamut	45%	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
Processor		Operating system installed *	Windows 11 Pro
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	CPU configuration (max)	1
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 *	8 GB		

<b>Memory</b>		<b>Processor special features</b>	
Internal memory type	DDR4-SDRAM	Embedded options available	✗
Memory clock speed	3200 MHz	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Memory layout (slots x size)	1 x 8 GB	Intel Virtualization Technology (VT-x)	✓
Memory slots	2x SO-DIMM	<b>Brand-specific features</b>	
Number of free internal memory expansion slots	1	HP speaker type	HP Dual Speakers
ECC	✗	HP Connection Optimizer	✓
Non-ECC	✓	HP Support Assistant	✓
<b>Storage</b>		HP Smart AC Adapter	✓
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 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 Hotkey Support; HP MAC Address Manager; myHP; HP Privacy Settings; Touchpoint Customizer for Commercial; HP Notifications; HPQuickDrop; Tile App; HP Quick Touch; HP PC Hardware Diagnostics Windows	
Number of SSDs installed	1	HP Security tools	HP Management tools
SSD capacity	256 GB	HP Software provided	
SSD interface	PCI Express	HP segment	
NVMe	✓	HP GTIN (EAN/UPC)	
Optical drive type *	✗	196548698516	
<b>Graphics</b>		<b>Battery</b>	
Discrete graphics card model *	Not available	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card *	✓	Number of battery cells	3
On-board GPU manufacturer	Intel	Battery capacity *	51 Wh
Discrete graphics card *	✗	<b>Power</b>	
On-board graphics card family	Intel Iris Xe Graphics	AC adapter power	45 W
On-board graphics card model *	Intel Iris Xe Graphics	AC adapter frequency	50 - 60 Hz
<b>Audio</b>		AC adapter input voltage	100 - 240 V
Built-in speaker(s)	✓	<b>Security</b>	
Number of built-in speakers	2	Trusted Platform Module (TPM)	✓
Built-in microphone	✓	Trusted Platform Module (TPM) version	2.0
Number of microphones	2	Password protection	✓
<b>Camera</b>		Password protection type	BIOS, Power on, User
Front camera	✓	<b>Sustainability</b>	
Front camera signal format	720p	Sustainability compliance	✓
Front camera HD type	HD	Sustainability certificates	ENERGY STAR
Infrared (IR) 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)	
<b>Network</b>		<b>Weight &amp; dimensions</b>	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Width	359.4 mm
Wi-Fi standards	Wi-Fi 6E (802.11ax)	Depth	233.9 mm
Mobile network connection *	✗		
Antenna type	2x2		
WLAN controller model	Intel Wi-Fi 6E AX211		
WLAN controller manufacturer	Intel		
Bluetooth	✓		
Bluetooth version	5.3		

**Weight & dimensions**

Height	19.9 mm
Weight *	1.74 kg

**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**

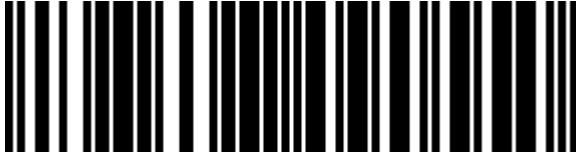
Number of speakers	2
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