



# 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: 5Y4A4EA

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<sup>e</sup> Graphics
  - 8 GB memory; 256 GB SSD storage
- ProBook 450 15.6 inch G9 Notebook PC, 15.6", Windows 11 Pro (preinstalled with Windows 10 Pro Downgrade), 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	Keyboard	
Touchscreen *	✗	Keyboard special features	Spill-resistant
HD type	Full HD	Pointing device	Clickpad
Panel type	IPS	Numeric keypad *	✓
Anti-glare screen	✓	Spill-resistant keyboard	✓
Display bezel technology	Micro-Edge	Full-size keyboard	✓
Display brightness	250 cd/m <sup>2</sup>	Input device model	HP Premium Keyboard
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		Processor special features	
Processor manufacturer *	Intel	Intel Flex Memory Access	✓
Processor family *	Intel® Core™ i5	Intel Trusted Execution Technology	✓
Processor generation	12th gen Intel® Core™ i5	Intel VT-x with Extended Page Tables (EPT)	✓
Processor model *	i5-1235U	Execute Disable Bit	✓
Processor cores	10	CPU configuration (max)	1
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 *	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	Business
NVMe	✓	HP GTIN (EAN/UPC)	196548698448
Optical drive type *	✗	<b>Battery</b>	
<b>Graphics</b>		Battery technology	
Discrete graphics card model *	Not available	Lithium-Ion (Li-Ion)	
On-board graphics card *	✓	Number of battery cells	
On-board GPU manufacturer	Intel	3	
Discrete graphics card *	✗	Battery capacity *	
On-board graphics card family	Intel Iris Xe Graphics	51 Wh	
On-board graphics card model *	Intel Iris Xe Graphics	<b>Power</b>	
<b>Audio</b>		AC adapter power	
Built-in speaker(s)	✓	45 W	
Number of built-in speakers	2	AC adapter frequency	
Built-in microphone	✓	50 - 60 Hz	
Number of microphones	2	AC adapter input voltage	
<b>Camera</b>		100 - 240 V	
Front camera	✓	<b>Security</b>	
Front camera signal format	720p	Trusted Platform Module (TPM)	
Front camera HD type	HD	✓	
Infrared (IR) camera	✓	Trusted Platform Module (TPM) version	
<b>Network</b>		2.0	
Top Wi-Fi standard *	Wi-Fi 6E (802.11ax)	Password protection	
Wi-Fi standards	Wi-Fi 6E (802.11ax)	✓	
Mobile network connection *	✗	Password protection type	
Antenna type	2x2	BIOS, Power on, User	
WLAN controller model	Intel Wi-Fi 6E AX211	<b>Sustainability</b>	
WLAN controller manufacturer	Intel	Sustainability compliance	
Bluetooth	✓	✓	
Bluetooth version	5.3	Sustainability certificates	
		ENERGY STAR	
		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)	
		Sustainable technologies and materials	
		<b>Weight &amp; dimensions</b>	
		Width	359.4 mm
		Depth	233.9 mm

**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
-----------------------------	------------

**Other features**

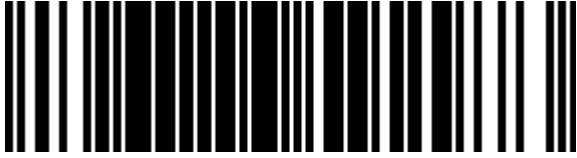
Number of speakers	2
--------------------	---



0196548698448



196548698448



0196786592973



196786592973

Disclaimer. The information published here (the "Information") is based on sources that can be considered reliable, typically the manufacturer, but this Information is provided "AS IS" and without guarantee of correctness or completeness. The Information is only indicative and can be changed at any time without notification. No rights can be based on the Information. Suppliers or aggregators of this Information do not accept any liability with regard to the content of (web)pages and other documents, including its Information. The publisher of the Information can not be held liable for the content of 3rd party websites that are linking this Information or are linked to from this Information. You as the User of the Information are solely responsible for the choice and usage of this Information. You are not entitled to transfer, copy or otherwise multiply or distribute the Information. You are obliged to follow the directions of the copyright owner(s) with regard to the use of the Information. Exclusively Dutch law is applicable. With regard to price and stock data on the site, the publisher followed a number of starting points, which are not necessarily relevant for your private or business circumstances. Therefore, the price and stock data are only indicative and are subject to changes. You are personally responsible for the way you use and apply this information. As a user of the Information or sites or documents in which this Information is included, you will adhere to standard fair use including avoidance of spamming, ripping, intellectual-property violations, privacy violations, and any other illegal activity.