



HP ProBook 450 G9 Intel® Core™ i7 i7-1255U Laptop 39.6 cm (15.6") Full HD 16 GB DDR4-SDRAM 512 GB SSD NVIDIA GeForce MX570 Wi-Fi 6 (802.11ax) FreeDOS Silver



Brand : HP

Product family: ProBook

Product code: 5Y3T5EA

Product name : 450 G9

- Intel® Core™ i7-1255U (up to 4.7 GHz with Intel® Turbo Boost Technology, 12 MB L3 cache, 10 cores, 12 threads)
 - FreeDOS
 - 39.6 cm (15.6") diagonal FHD display
 - NVIDIA® GeForce® MX570 (2 GB DDR6 dedicated)
 - 16 GB memory; 512 GB SSD storage
- ProBook 450 15.6 inch G9 Notebook PC, 15.6", FreeDOS, Intel® Core™ i7, 16GB RAM, 512GB SSD, NVIDIA® GeForce® MX570, FHD

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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		Network	
Product type *	Laptop	Bluetooth	✓
Product colour *	Silver	Bluetooth version	5.2
Form factor *	Clamshell	Ports & interfaces	
Market positioning	Everyday	USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	3
Introduction year	2022	USB 3.2 Gen 2 (3.1 Gen 2) Type-C ports quantity	1
Country of origin	China	Ethernet LAN (RJ-45) ports	1
Original brand name	HP	HDMI ports quantity *	1
Display		HDMI version	2.1b
Display diagonal *	39.6 cm (15.6")	Combo headphone/mic port	✓
Display resolution *	1920 x 1080 pixels	Charging port type	USB Type-C
Touchscreen *	✗	USB Type-C DisplayPort Alternate Mode	✓
HD type	Full HD	USB Power Delivery	✓
Panel type	IPS	Keyboard	
Native aspect ratio	16:9	Keyboard special features	Spill-resistant
Anti-glare screen	✓	Pointing device	Clickpad
Display bezel technology	Micro-Edge	Numeric keypad *	✓
Display brightness	250 cd/m ²	Keyboard backlit	✓
Display diagonal (metric)	39.6 cm	Spill-resistant keyboard	✓
RGB colour space	NTSC	Full-size keyboard	✓
Colour gamut	45%	Input device model	HP Premium Keyboard
Processor		Software	
Processor manufacturer *	Intel	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 family *	Intel® Core™ i7	Operating system installed *	FreeDOS
Processor generation	12th gen Intel® Core™ i7	Processor special features	
Processor model *	i7-1255U	Intel Flex Memory Access	✓
Processor cores	10		
Processor threads	12		
Processor boost frequency	4.7 GHz		
Processor frequency *	1.7 GHz		
Processor cache	12 MB		
Processor cache type	L3		
Configurable TDP-down	12 W		

Memory		Processor special features	
Internal memory *	16 GB	Intel Trusted Execution Technology	✓
Internal memory type	DDR4-SDRAM	Intel VT-x with Extended Page Tables (EPT)	✓
Memory clock speed	3200 MHz	Execute Disable Bit	✓
Memory form factor	SO-DIMM	CPU configuration (max)	1
Memory layout (slots x size)	1 x 16 GB	Embedded options available	✗
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	32 GB	Intel Virtualization Technology (VT-x)	✓
Number of free internal memory expansion slots	1		
ECC	✗	Brand-specific features	
Non-ECC	✓	HP speaker type	HP Dual Speakers
Storage		HP Connection Optimizer	✓
Total storage capacity *	512 GB	HP Support Assistant	✓
Storage media *	SSD		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
Total SSDs capacity	512 GB		embedded security chip (Common Criteria EAL4+ and FIPS 140-2 Level 2 Certified); HP Sure Start Gen7; HP Wake on WLAN; HP Tamper Lock
Number of SSDs installed	1	HP Security tools	
SSD capacity	512 GB		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
SSD interface	PCI Express		
NVMe	✓	HP Management tools	
SSD form factor	M.2		
Optical drive type *	✗	HP segment	Business
Card reader integrated	✗	HP GTIN (EAN/UPC)	196786062773
Compatible memory cards	MicroSD (TransFlash)		
Graphics		Battery	
Discrete GPU manufacturer	NVIDIA	Battery technology	Lithium-Ion (Li-Ion)
Discrete graphics card model *	NVIDIA GeForce MX570	Number of battery cells	3
Discrete graphics card memory	2 GB	Battery capacity *	51 Wh
Discrete graphics memory type	GDDR6		
On-board graphics card *	✓	Power	
On-board GPU manufacturer	Intel	AC adapter power	65 W
Discrete graphics card *	✓	AC adapter frequency	50 - 60 Hz
On-board graphics card family	Intel Iris Xe Graphics	AC adapter input voltage	100 - 240 V
On-board graphics card model *	Intel Iris Xe Graphics		
Audio		Security	
Built-in speaker(s)	✓	Fingerprint reader	✓
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	✓
Camera		Password protection type	BIOS, Power on
Front camera	✓	Certificates	
Front camera HD type	HD	Low halogen	✓
Network		Sustainability	
Top Wi-Fi standard *	Wi-Fi 6 (802.11ax)	Sustainability compliance	✓
Wi-Fi standards	Wi-Fi 6 (802.11ax)	Sustainability certificates	ENERGY STAR, TCO
Mobile network connection *	✗		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)
Antenna type	2x2		
WLAN controller model	Realtek RTL8852AE	Sustainable technologies and materials	
WLAN controller manufacturer	Realtek		
Ethernet LAN	✓		
Ethernet LAN data rates	10,1000,100 Mbit/s		

Weight & dimensions

Width	359.4 mm
Depth	233.9 mm
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

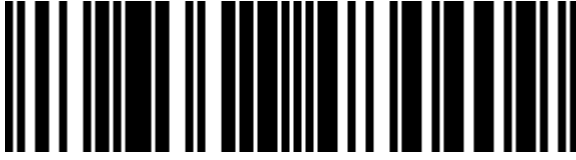
Number of speakers	2
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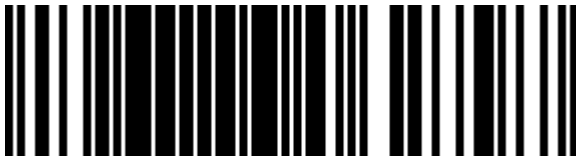
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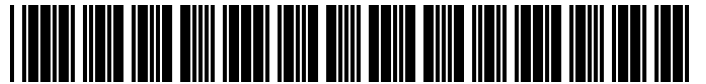
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