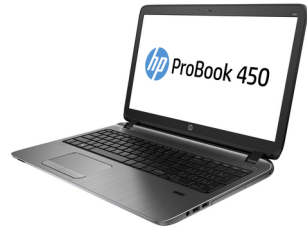
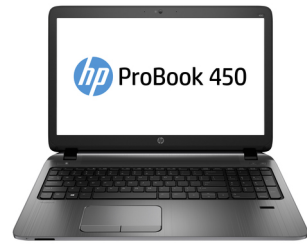




HP ProBook 450 G2 Intel® Core™ i5 i5-5200U Laptop 39.6 cm (15.6") 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Silver



Brand : HP

Product family: ProBook

Product code: K9K42EA

Product name : 450 G2

Intel Core i5-5200U (2.2GHz, 3MB), 15.6" LED HD (1366 x 768), 4GB (1 x 4GB) DDR3L SDRAM, 500GB 5400 rpm SATA, SuperMulti DVD±RW DL, Intel HD Graphics 4400, 802.11a/b/g/n/ac, Bluetooth 4.0, webcam, WWAN 4G, Windows 7 Professional 64 / Windows 8.1 Pro
 HP ProBook 450 G2. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-5200U, Processor frequency: 2.2 GHz. Display diagonal: 39.6 cm (15.6"), Display resolution: 1366 x 768 pixels. Internal memory: 4 GB, Internal memory type: DDR3L-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. Mobile network generation: 4G. Operating system installed: Windows 7 Professional. Product colour: Silver

Design		Ports & interfaces	
Product type *	Laptop	SmartCard slot	✗
Product colour *	Silver	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad
Country of origin	China	Numeric keypad *	✓
Display		Spill-resistant keyboard	✓
Display diagonal *	39.6 cm (15.6")	Full-size keyboard	✓
Display resolution *	1366 x 768 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
LED backlight	✓	Recovery operating system	Windows 8.1 Pro
Native aspect ratio	16:9	Operating system installed *	Windows 7 Professional
Processor		Processor special features	
Processor manufacturer *	Intel	Intel® Wireless Display (Intel® WiDi)	✓
Processor family *	Intel® Core™ i5	Intel® My WiFi Technology (Intel® MWT)	✗
Processor generation	5th gen Intel® Core™ i5	Intel® Anti-Theft Technology (Intel® AT)	✗
Processor model *	i5-5200U	Intel® Smart Response Technology	✓
Processor cores	2	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor threads	4	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor boost frequency	2.7 GHz	Intel® Turbo Boost Technology	2.0
Processor frequency *	2.2 GHz	Intel® Small Business Advantage (Intel® SBA)	✓
System bus rate	5 GT/s	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor socket	BGA 1168	Intel Clear Video Technology	✓
Processor lithography	14 nm		
Processor operating modes	32-bit, 64-bit		
Processor series	Intel® Core™ i5-5200 Mobile Series		
Processor codename	Broadwell		
Bus type	DMI2		
FSB Parity	✗		
Stepping	F0		
Thermal Design Power (TDP)	15 W		

Processor		Processor special features	
Configurable TDP-down	7.5 W	Intel® InTru™ 3D Technology	✓
Configurable TDP-down frequency	0.6 GHz	Intel® Insider™	✓
Tjunction	105 °C	Intel® Quick Sync Video Technology	✓
Maximum number of PCI Express lanes	12	Intel Flex Memory Access	✓
PCI Express slots version	2.0	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	4x1, 2x4	Intel Trusted Execution Technology	✗
ECC supported by processor	✗	Intel Enhanced Halt State	✓
Memory		Intel VT-x with Extended Page Tables (EPT)	✓
Internal memory *	4 GB	Intel Demand Based Switching	✗
Internal memory type	DDR3L-SDRAM	Intel® Secure Key	✓
Memory clock speed	1600 MHz	Intel® OS Guard	✓
Memory layout (slots x size)	1 x 4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✓
Memory slots	2x SO-DIMM	Intel 64	✓
Maximum internal memory *	16 GB	Execute Disable Bit	✓
Storage		Idle States	✓
Total storage capacity *	500 GB	Thermal Monitoring Technologies	✓
Storage media *	HDD	Processor package size	40 x 24 x 1.3 mm
Number of HDDs installed	1	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
HDD capacity	500 GB	Processor code	SR23Y
HDD interface	SATA	CPU configuration (max)	1
HDD speed	5400 RPM	Embedded options available	✗
Optical drive type *	DVD Super Multi DL	Graphics & IMC lithography	14 nm
Card reader integrated	✓	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Graphics		Intel Identity Protection Technology version	1.00
Discrete graphics card model *	Not available	Intel Smart Response Technology version	1.00
On-board graphics card *	✓	Intel Secure Key Technology version	1.00
Discrete graphics card *	✗	Intel Small Business Advantage (SBA) version	1.00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 5500	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	300 MHz	Intel FDI Technology	✓
On-board graphics card dynamic frequency (max)	900 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	16 GB	Intel Fast Memory Access	✓
On-board graphics card DirectX version	11.2	Processor ARK ID	85212
On-board graphics card ID	0x1616	Conflict-Free processor	✓
Audio		Battery	
Audio system	DTS Sound+	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	4
Built-in microphone	✓	Power	
Camera		DC-in jack	✓
Front camera	✓	Security	
Network		Cable lock slot	✓
Mobile network generation	4G	Fingerprint reader	✓
Wi-Fi	✓	Sustainability	
Wi-Fi standards	802.11a, Wi-Fi 5 (802.11ac), 802.11b, 802.11g, Wi-Fi 4 (802.11n)	Sustainability certificates	ENERGY STAR
Mobile network connection *	✓	Weight & dimensions	
Ethernet LAN	✓	Width	375 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Depth	262.8 mm
Bluetooth	✓	Ports & interfaces	
Bluetooth version	4.0	USB 2.0 ports quantity *	2

Ports & interfaces		Weight & dimensions	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Height (front)	2.34 cm
Ethernet LAN (RJ-45) ports	1	Height (rear)	2.55 cm
HDMI ports quantity *	1	Weight *	2.11 kg
DVI port	✗	Other features	
VGA (D-Sub) ports quantity	1	Intel segment tagging	Enterprise, Professional
S/PDIF out port	✗		
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		



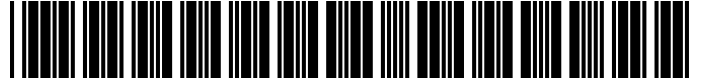
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