



HP ProBook 640 G1 i5-4300M Notebook 35.6 cm (14") HD+ Intel® Core™ i5 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Black, Silver

Brand : HP

Product family: ProBook

Product code: D3B09AV

Product name : 640 G1

Intel Core i5-4300M Processor (3M Cache, up to 3.30 GHz), Intel HM87, 4GB DDR3 1600MHz, 500GB SATA HDD, 14" HD+ LED 1600 x 900, DVD Super Multi DL, Gigabit LAN, WLAN, Bluetooth, WebCam, Windows 7 Professional 32-bit / Windows 8.1 Pro

HP ProBook 640 G1 i5-4300M Notebook 35.6 cm (14") HD+ Intel® Core™ i5 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Black, Silver:

Take on tasks in the office or on the road with a durable HP ProBook 640 and HP ProBook 650. These ProBooks are thin, light and packed with productivity features to make work faster and easier. Plus, reliable security solutions keep your data out of the wrong hands.

Thinner, tougher taskmaster.

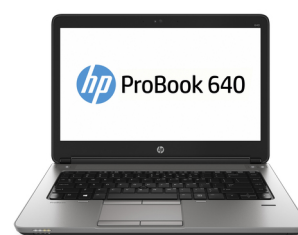
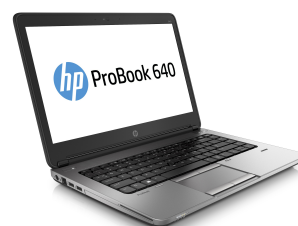
- Get the technology you trust from HP, with cutting-edge style that looks and feels the way you want.

Design your ideal ProBook.

- Take advantage of the wide range of features and configurable options on the new HP ProBook 600 Series.

Convenient Control.

- Protect data, devices and identities with HP Client Security and use HP Trust Circles to make sure only assigned contacts can access critical files.



Design		Ports & interfaces	
Product type *	Notebook	USB Sleep-and-Charge ports	1
Product colour *	Black, Silver	Keyboard	
Form factor *	Clamshell	Pointing device	Touchpad + Pointing Stick
Country of origin	China	Numeric keypad *	✗
Display		Spill-resistant keyboard	✓
Display diagonal *	35.6 cm (14")	Windows keys	✓
Display resolution *	1600 x 900 pixels	Software	
Touch screen *	✗	Operating system architecture	32-bit
HD type	HD+	Optional operating system supplied	Windows 8.1 Pro
LED backlight	✓	Drivers included	✓
Native aspect ratio	16:9	Operating system installed *	Windows 7 Professional
Display surface	Matt	Processor special features	
Processor		Intel Wireless Display (WiDi) Technology	✓
Processor manufacturer *	Intel	Intel My WiFi Technology	✗
Processor generation	4th gen Intel® Core™ i5	Intel Anti-Theft Technology	✓
Processor *	i5-4300M	Intel Identity Protection Technology	✓
Processor family *	Intel® Core™ i5	Intel Hyper-Threading Technology	✓
Processor frequency *	2.6 GHz	Intel Turbo Boost Technology	2.0
Processor boost frequency	3.3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor number of cores	2	Intel Clear Video HD Technology	✓
Processor threads	4	Intel Clear Video Technology	✗
System bus data transfer rate	5 GT/s	Intel® InTru™ 3D Technology	✓
Processor cache	3 MB	Intel® Insider™	✓
Processor cache type	Smart Cache	Intel® Quick Sync Video Technology	✓
Processor socket	PGA946	Intel Flex Memory Access	✗
Processor lithography	22 nm	Intel® Smart Cache	✓
Processor operating modes	64-bit	Intel AES New Instructions	✓
Processor series	Intel Core i5-4300 Mobile series		
Processor codename	Haswell		

Processor		Processor special features	
Bus type	DMI	Intel Trusted Execution Technology	✓
FSB Parity	✗	Intel Enhanced Halt State	✗
Stepping	C0	Intel VT-x with Extended Page Tables (EPT)	✓
Motherboard chipset	Intel® HM87	Intel Demand Based Switching	✗
Thermal Design Power (TDP)	37 W	Intel® Secure Key	✓
Tjunction	100 °C	Intel TSX-NI	✗
Maximum number of PCI Express lanes	16	Intel Clear Video Technology for MID	✗
PCI Express slots version	3.0	Intel 64	✓
PCI Express configurations	1x16, 2x8, 1x8+2x4	Execute Disable Bit	✓
ECC supported by processor	✗	Idle States	✓
Memory		Thermal Monitoring Technologies	✓
Internal memory *	4 GB	Processor package size	37.5 x 37.5 x 4.7 mm
Internal memory type	DDR3L-SDRAM	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Memory clock speed	1600 MHz	Processor code	SR1H9
Memory form factor	SO-DIMM	CPU configuration (max)	1
Memory layout (slots x size)	1 x 4 GB	Embedded options available	✗
Memory slots	2x SO-DIMM	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Maximum internal memory *	8 GB	Intel Identity Protection Technology version	1.00
Storage		Intel Secure Key Technology version	1.00
Total storage capacity *	500 GB	Intel TSX-NI version	0.00
Storage media *	HDD	Intel Virtualization Technology (VT-x)	✓
Number of hard drives installed	1	Intel Dual Display Capable Technology	✗
Hard drive capacity	500 GB	Intel FDI Technology	✗
Hard drive interface	SATA	Intel Rapid Storage Technology	✗
Hard drive rotational speed	7200 RPM	Intel Fast Memory Access	✗
Hard drive size	2.5"	Processor ARK ID	76347
Optical drive type *	DVD Super Multi DL	Conflict-Free processor	✓
Card reader integrated	✓	Battery	
Compatible memory cards	SD, SDHC, SDXC	Battery technology	Lithium-Ion (Li-Ion)
Graphics		Number of battery cells	6
Discrete graphics card model *	Not available	Battery performance	5100 mAh
On-board graphics card *	✓	Battery capacity *	55 Wh
Discrete graphics card *	✗	Battery voltage	10.8 V
On-board graphics card family	Intel® HD Graphics	Energy Management	
On-board graphics card model *	Intel® HD Graphics 4600	AC adapter power	65 W
On-board graphics card base frequency	400 MHz	AC adapter frequency	50 - 60 Hz
On-board graphics card dynamic frequency (max)	1250 MHz	AC adapter input voltage	100 - 240 V
Maximum on-board graphics card memory	1.74 GB	AC adapter output voltage	18.5 V
On-board graphics card DirectX version	11.1	Power auto-sensing	✓
On-board graphics card ID	0x416	Security	
Audio		Cable lock slot	✓
Audio system	DTS Studio Sound	Password protection	✓
Number of built-in speakers	2	Weight & Dimensions	
Built-in microphone	✓	Width	340 mm
Camera		Depth	237 mm
Front camera	✓	Height	25.3 mm
Network		Weight *	2 kg
Wi-Fi	✓	Packaging Content	
Wi-Fi standards	802.11a, 802.11b, 802.11g	Manual	✓
Ethernet LAN connection	✓	Quick start guide	✓
Ethernet LAN data rates	10,100,1000 Mbit/s	Warranty card	✓
Bluetooth	✓	Power cord included	✓
Bluetooth version	4.0	Other features	
		AC adapter bundled	✓

Ports & interfaces		Other features	
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	LightScribe	✗
Ethernet LAN (RJ-45) ports quantity	1	Disc types supported	CD, DVD
DisplayPorts quantity	1	3D compatibility	✗
DVI port	✗	Maximum internal memory (64-bit)	8 GB
VGA (D-Sub) ports quantity	1	Intel Virtualization Technology	VT-d, VT-x
S/PDIF out port	✗	Intel segment tagging	Enterprise
Microphone in	✗		
Combo headphone/mic port	✓		
Docking connector	✓		
Charging port type	DC-in jack		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		
USB Sleep-and-Charge	✓		

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