



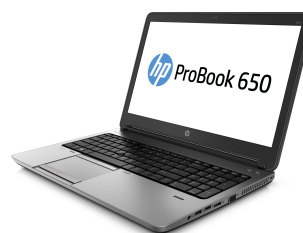
HP ProBook 650 G1 i5-4300M Notebook 39.6 cm (15.6") Intel® Core™ i5 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Black, Silver

Brand : HP

Product family: ProBook

Product code: J1C94UC

Product name : 650 G1



Intel Core i5-4300M (2.6GHz, 3MB), 15.6" HD LED SVA anti-glare (1366 x 768), 4GB (1 x 4GB) DDR3L SDRAM, 500GB SATA 7200 rpm, DVD+/-RW SuperMulti DL, Intel HD Graphics 4600, 802.11a/b/g/n, Bluetooth 4.0, webcam, Windows 7 Professional 64

HP ProBook 650 G1. Product type: Notebook, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor: i5-4300M, Processor frequency: 2.6 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. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 7 Professional. Product colour: Black, Silver



Design		Ports & interfaces	
Product type *	Notebook	DVI port	✗
Product colour *	Black, Silver	VGA (D-Sub) ports quantity	1
Form factor *	Clamshell	Combo headphone/mic port	✓
Country of origin	China	Docking connector	✓
Display		Charging port type	DC-in jack
Display diagonal *	39.6 cm (15.6")	Serial ports quantity	1
Display resolution *	1366 x 768 pixels	Keyboard	
Touch screen *	✗	Pointing device	Touchpad
LED backlight	✓	Numeric keypad *	✓
Native aspect ratio	16:9	Spill-resistant keyboard	✓
Processor		Software	
Processor manufacturer *	Intel	Operating system architecture	64-bit
Processor generation	4th gen Intel® Core™ i5	Operating system installed *	Windows 7 Professional
Processor *	i5-4300M	Processor special features	
Processor family *	Intel® Core™ i5	Intel Wireless Display (WiDi) Technology	✓
Processor frequency *	2.6 GHz	Intel My WiFi Technology	✗
Processor boost frequency	3.3 GHz	Intel Anti-Theft Technology	✓
Processor number of cores	2	Intel Identity Protection Technology	✓
Processor threads	4	Intel Hyper-Threading Technology	✓
System bus data transfer rate	5 GT/s	Intel Turbo Boost Technology	2.0
Processor cache	3 MB	Enhanced Intel SpeedStep Technology	✓
Processor cache type	Smart Cache	Intel Clear Video HD Technology	✓
Processor socket	PGA946	Intel Clear Video Technology	✗
Processor lithography	22 nm	Intel® InTru™ 3D Technology	✓
Processor operating modes	64-bit	Intel® Insider™	✓
Processor series	Intel Core i5-4300 Mobile series	Intel® Quick Sync Video Technology	✓
Processor codename	Haswell	Intel Flex Memory Access	✗
Bus type	DMI	Intel® Smart Cache	✓
FSB Parity	✗	Intel AES New Instructions	✓
Stepping	C0		
Motherboard chipset	Intel® QM87		

Processor		Processor special features	
Thermal Design Power (TDP)	37 W	Intel Trusted Execution Technology	✓
Tjunction	100 °C	Intel Enhanced Halt State	✗
Maximum number of PCI Express lanes	16	Intel VT-x with Extended Page Tables (EPT)	✓
PCI Express slots version	3.0	Intel Demand Based Switching	✗
PCI Express configurations	1x16, 2x8, 1x8+2x4	Intel® Secure Key	✓
ECC supported by processor	✗	Intel TSX-NI	✗
Memory		Intel Clear Video Technology for MID	✗
Internal memory *	4 GB	Intel 64	✓
Internal memory type	DDR3L-SDRAM	Execute Disable Bit	✓
Memory clock speed	1600 MHz	Idle States	✓
Memory layout (slots x size)	1 x 4 GB	Thermal Monitoring Technologies	✓
Memory slots	2x SO-DIMM	Processor package size	37.5 x 37.5 x 4.7 mm
Maximum internal memory *	16 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage		Processor code	SR1H9
Total storage capacity *	500 GB	CPU configuration (max)	1
Storage media *	HDD	Embedded options available	✗
Total HDDs capacity	500 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✓
Number of hard drives installed	1	Intel Identity Protection Technology version	1.00
Hard drive capacity	500 GB	Intel Secure Key Technology version	1.00
Hard drive interface	SATA	Intel TSX-NI version	0.00
Hard drive rotational speed	7200 RPM	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	DVD Super Multi DL	Intel Dual Display Capable Technology	✗
Card reader integrated	✓	Intel FDI Technology	✗
Graphics		Intel Rapid Storage Technology	✗
Discrete graphics card model *	Not available	Intel Fast Memory Access	✗
On-board graphics card *	✓	Processor ARK ID	76347
Discrete graphics card *	✗	Conflict-Free processor	✓
On-board graphics card family	Intel® HD Graphics	Battery	
On-board graphics card model *	Intel® HD Graphics 4600	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card base frequency	400 MHz	Number of battery cells	6
On-board graphics card dynamic frequency (max)	1250 MHz	Battery capacity *	55 Wh
Maximum on-board graphics card memory	1.74 GB	Energy Management	
On-board graphics card DirectX version	11.1	AC adapter power	65 W
On-board graphics card ID	0x416	Security	
Audio		Cable lock slot	✓
Audio system	DTS Studio Sound	Trusted Platform Module (TPM)	✓
Number of built-in speakers	2	Sustainability	
Built-in microphone	✓	Sustainability certificates	ENERGY STAR
Camera		Weight & Dimensions	
Front camera	✓	Width	378 mm
Network		Depth	257 mm
Wi-Fi	✓	Height	25.3 mm
Wi-Fi standards	802.11a, 802.11b, 802.11g	Weight *	2.32 kg
Ethernet LAN connection	✓	Other features	
Ethernet LAN data rates	10,100,1000 Mbit/s	Intel segment tagging	Enterprise
Bluetooth	✓		
Bluetooth version	4.0		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	5		
Ethernet LAN (RJ-45) ports quantity	1		
DisplayPorts quantity	1		

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