



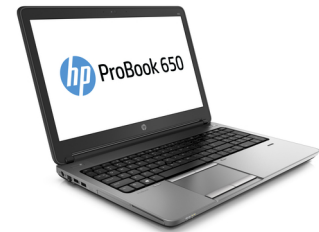
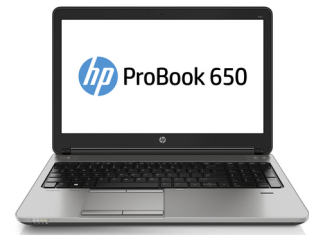
HP ProBook 650 G1 Intel® Core™ i5 i5-4300M Laptop 39,6 cm (15.6") 4 GB DDR3-SDRAM 128 GB SSD Windows 7 Professional Silver

Brand : HP

Product family: ProBook

Product code: G6K77EC

Product name : 650 G1



Intel Core i5-4300M (2.6GHz, 3MB), 15.6" LED HD anti-glare (1366 x 768), 4GB DDR3 SDRAM, 128GB SATA SSD, DVD+-RW SuperMulti DL, Intel HD Graphics 4600, 802.11a/b/g/n, Bluetooth 4.0, webcam, Windows 7 Professional 64 / Windows 8 Pro 64

HP ProBook 650 G1. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: 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: DDR3-SDRAM. Total storage capacity: 128 GB, Storage media: SSD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4600. Operating system installed: Windows 7 Professional. Product colour: Silver

Design		Ports & interfaces	
Product type *	Laptop	SmartCard slot	✗
Product colour *	Silver	Performance	
Form factor *	Clamshell	Motherboard chipset	Intel® QM87
Country of origin	China	Keyboard	
Display		Pointing device	Touchpad
Display diagonal *	39,6 cm (15.6")	Spill-resistant keyboard	✓
Display resolution *	1366 x 768 pixels	Software	
Touchscreen *	✗	Operating system architecture	64-bit
LED backlight	✓	Recovery operating system	Windows 8 Pro
Native aspect ratio	16:9	Operating system installed *	Windows 7 Professional
Display surface	Matt	Processor special features	
Processor		Intel® Wireless Display (Intel® WiDi)	✓
Processor manufacturer *	Intel	Intel® My WiFi Technology (Intel® MWT)	✗
Processor family *	Intel® Core™ i5	Intel® Anti-Theft Technology (Intel® AT)	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor model *	i5-4300M	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor cores	2	Intel® Turbo Boost Technology	2.0
Processor threads	4	Intel® Active Management Technology (Intel® AMT)	✗
Processor boost frequency	3,3 GHz	Enhanced Intel SpeedStep Technology	✓
Processor frequency *	2,6 GHz	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
System bus rate	5 GT/s	Intel Clear Video Technology	✗
Processor cache	3 MB	Intel® InTru™ 3D Technology	✓
Processor cache type	Smart Cache	Intel® Insider™	✓
Processor socket	PGA946		
Processor lithography	22 nm		
Processor operating modes	64-bit		
Processor series	Intel Core i5-4300 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	✗		
Stepping	C0		

Processor		Processor special features	
Thermal Design Power (TDP)	37 W	Intel® Quick Sync Video Technology	✓
Tjunction	100 °C	Intel Flex Memory Access	✗
Maximum number of PCI Express lanes	16	Intel® Smart Cache	✓
PCI Express slots version	3.0	Intel® AES New Instructions (Intel® AES-NI)	✓
PCI Express configurations	1x16, 2x8, 1x8+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	DDR3-SDRAM	Intel® Secure Key	✓
Memory clock speed	1600 MHz	Intel TSX-NI	✗
Memory slots	2x SO-DIMM	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Maximum internal memory *	8 GB	Intel 64	✓
Storage		Execute Disable Bit	✓
Total storage capacity *	128 GB	Idle States	✓
Storage media *	SSD	Thermal Monitoring Technologies	✓
Number of SSDs installed	1	Processor package size	37.5 x 37.5 x 4.7 mm
SSD capacity	128 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
SSD interface	SATA	Processor code	SR1H9
Optical drive type *	DVD Super Multi DL	CPU configuration (max)	1
Card reader integrated	✓	Embedded options available	✗
Graphics		Intel Virtualization Technology for Directed I/O (VT-d)	✓
Discrete graphics card model *	Not available	Intel Identity Protection Technology version	1,00
On-board graphics card *	✓	Intel Secure Key Technology version	1,00
Discrete graphics card *	✗	Intel TSX-NI version	0,00
On-board graphics card family	Intel® HD Graphics	Intel Virtualization Technology (VT-x)	✓
On-board graphics card model *	Intel® HD Graphics 4600	Intel Dual Display Capable Technology	✗
On-board graphics card base frequency	400 MHz	Intel FDI Technology	✗
On-board graphics card dynamic frequency (max)	1250 MHz	Intel Rapid Storage Technology	✗
Maximum on-board graphics card memory	1,74 GB	Intel Fast Memory Access	✗
On-board graphics card DirectX version	11.1	Processor ARK ID	76347
On-board graphics card ID	0x416	Conflict-Free processor	✓
Audio		Battery	
Audio system	DTS Studio Sound	Battery technology	Lithium-Ion (Li-Ion)
Number of built-in speakers	2	Number of battery cells	6
Built-in microphone	✓	Power	
Camera		AC adapter power	65 W
Front camera	✓	DC-in jack	✓
Network		Security	
Wi-Fi	✓	Cable lock slot	✓
Wi-Fi standards	802.11a, 802.11b, 802.11g	Sustainability	
Ethernet LAN	✓	Sustainability certificates	ENERGY STAR
Ethernet LAN data rates	10,100,1000 Mbit/s	Weight & dimensions	
Bluetooth	✓	Width	378 mm
Bluetooth version	4.0	Depth	257 mm
Ports & interfaces		Height	25,3 mm
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4	Weight *	2,32 kg
Ethernet LAN (RJ-45) ports	1	Other features	
DisplayPorts quantity	1	LightScribe	✗
DVI port	✗	Intel segment tagging	Enterprise
VGA (D-Sub) ports quantity	1		
S/PDIF out port	✗		

Ports & interfaces

Microphone in	✗
Combo headphone/mic port	✓
Docking connector	✓
ExpressCard slot	✗
CardBus PCMCIA slot type	✗

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