



HP ProBook 640 G1 + 2012 90W Docking Station Intel® Core™ i5 i5-4210M Laptop 35,6 cm (14") 4 GB DDR3L-SDRAM 500 GB HDD Windows 7 Professional Silver

Brand : HP

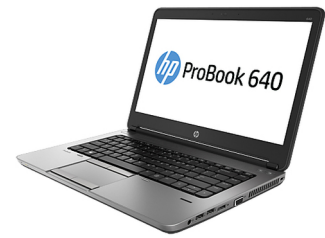
Product family: ProBook

Product code:
P4T19EA+A7E32AA

Product name : 640 G1 +
2012 90W Docking Station

Intel Core i5-4210M (2.6GHz, 3MB), 14" LED HD anti-glare eDP 1.2 flat (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 / Windows 10 Pro 64 + 2012 90W Docking Station (A7E32AA)

HP ProBook 640 G1 + 2012 90W Docking Station. Product type: Laptop, Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-4210M, Processor frequency: 2,6 GHz. Display diagonal: 35,6 cm (14"), 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: Silver



Design		Keyboard	
Product type *	Laptop	Pointing device	Touchpad
Product colour *	Silver	Numeric keypad *	✗
Form factor *	Clamshell	Spill-resistant keyboard	✓
Country of origin	China	Software	
Display		Operating system architecture	64-bit
Display diagonal *	35.6 cm (14")	Recovery operating system	Windows 10 Pro
Display resolution *	1366 x 768 pixels	Operating system installed *	Windows 7 Professional
Touchscreen *	✗	Processor special features	
LED backlight	✓	Intel® Wireless Display (Intel® WiDi)	✓
Native aspect ratio	16:9	Intel® My WiFi Technology (Intel® MWT)	✗
Processor		Intel® Anti-Theft Technology (Intel® AT)	✓
Processor manufacturer *	Intel	Intel® Identity Protection Technology (Intel® IPT)	✓
Processor family *	Intel® Core™ i5	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor generation	4th gen Intel® Core™ i5	Intel® Turbo Boost Technology	2.0
Processor model *	i5-4210M	Enhanced Intel SpeedStep Technology	✓
Processor cores	2	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor threads	4	Intel Clear Video Technology	✗
Processor boost frequency	3.2 GHz	Intel® InTru™ 3D Technology	✓
Processor frequency *	2.6 GHz	Intel® Insider™	✓
System bus rate	5 GT/s	Intel® Quick Sync Video Technology	✓
Processor cache	3 MB	Intel Flex Memory Access	✗
Processor cache type	Smart Cache	Intel® Smart Cache	✓
Processor socket	PGA946	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor lithography	22 nm	Intel Trusted Execution Technology	✗
Processor operating modes	64-bit	Intel Enhanced Halt State	✗
Processor series	Intel Core i5-4200 Mobile series		
Processor codename	Haswell		
Bus type	DMI		
FSB Parity	✗		
Stepping	C0		
Thermal Design Power (TDP)	37 W		
Tjunction	100 °C		

Processor		Processor special features	
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 Mobile Internet Devices (Intel CVT 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 *	8 GB	Supported instruction sets	AVX 2.0, SSE4.1, SSE4.2
Storage		Processor code	SR1L4
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 HDDs installed	1	Intel Identity Protection Technology version	1.00
HDD capacity	500 GB	Intel Secure Key Technology version	1.00
HDD interface	SATA	Intel TSX-NI version	0.00
HDD 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	81012
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)	1150 MHz	Battery capacity *	55 Wh
Maximum on-board graphics card memory	1.74 GB	Power	
On-board graphics card DirectX version	11.1	AC adapter power	65 W
On-board graphics card ID	0x416	DC-in jack	✓
Audio		Security	
Audio system	DTS Studio Sound	Cable lock slot	✓
Number of built-in speakers	2	Trusted Platform Module (TPM)	✓
Built-in microphone	✓	Sustainability	
Camera		Sustainability certificates	ENERGY STAR
Front camera	✓	Weight & dimensions	
Network		Width	340 mm
Wi-Fi	✓	Depth	237 mm
Wi-Fi standards	802.11a, 802.11b, 802.11g	Height	25.3 mm
Ethernet LAN	✓	Weight *	2 kg
Ethernet LAN data rates	10,100,1000 Mbit/s	Other features	
Bluetooth	✓	Intel segment tagging	Enterprise
Bluetooth version	4.0		
Ports & interfaces			
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	4		
Ethernet LAN (RJ-45) ports	1		
DisplayPorts quantity	1		
DVI port	✗		
VGA (D-Sub) ports quantity	1		

Ports & interfaces

Combo headphone/mic port	✓
Docking connector	✓

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