



HP ProBook 450 G0 Intel® Core™ i5 i5-3230M 39,6 cm (15.6") 4 GB DDR3-SDRAM 750 GB HDD Windows 8



Brand : HP

Product family: ProBook

Product code: E5G42PA

Product name : 450 G0

Design		Software	
Product type *	Laptop	Operating system architecture	64-bit
Product colour *	Black, Charcoal	Operating system installed *	Windows 8
Form factor *	Clamshell	Processor special features	
Country of origin	China	Intel® Wireless Display (Intel® WiDi)	✓
Display		Intel® My WiFi Technology (Intel® MWT)	✓
Display diagonal *	39.6 cm (15.6")	Intel Smart Connect Technology	✗
Display resolution *	1366 x 768 pixels	Intel® Anti-Theft Technology (Intel® AT)	✓
Touchscreen *	✗	Intel® Rapid Start Technology	✗
LED backlight	✓	Intel® Smart Response Technology	✗
Native aspect ratio	16:9	Intel® Identity Protection Technology (Intel® IPT)	✓
Display surface	Matt	Intel® Hyper Threading Technology (Intel® HT Technology)	✓
Processor		Intel® Turbo Boost Technology	2.0
Processor manufacturer *	Intel	Intel® Small Business Advantage (Intel® SBA)	✗
Processor family *	Intel® Core™ i5	Intel® Matrix Storage Technology (Intel® MST)	✗
Processor generation	3rd gen Intel® Core™ i5	Intel® High Definition Audio (Intel® HD Audio)	✗
Processor model *	i5-3230M	Intel® Active Management Technology (Intel® AMT)	✗
Processor cores	2	Enhanced Intel SpeedStep Technology	✓
Processor threads	4	Intel® Clear Video HD Technology (Intel® CVT HD)	✓
Processor boost frequency	3.2 GHz	Intel Clear Video Technology	✗
Processor frequency *	2.6 GHz	Intel® InTru™ 3D Technology	✓
System bus rate	5 GT/s	Intel® Insider™	✓
Processor cache	3 MB	Intel® Quick Sync Video Technology	✓
Processor cache type	Smart Cache	Intel Flex Memory Access	✓
Processor socket	BGA 1023	Intel® Smart Cache	✓
Processor lithography	22 nm	Intel® AES New Instructions (Intel® AES-NI)	✓
Processor operating modes	64-bit	Intel Trusted Execution Technology	✗
Processor series	Intel Core i5-3200 Mobile series	Intel Enhanced Halt State	✓
Processor codename	Ivy Bridge	Intel VT-x with Extended Page Tables (EPT)	✓
Bus type	DMI	Intel Demand Based Switching	✗
FSB Parity	✗	Intel® Secure Key	✓
Stepping	L1		
Thermal Design Power (TDP)	35 W		
Tjunction	105 °C		
Maximum number of PCI Express lanes	16		
PCI Express slots version	3.0		
PCI Express configurations	1x16, 2x8, 1x8+2x4		
CPU multiplier (bus/core ratio)	26		
ECC supported by processor	✗		
Memory			

Memory		Processor special features	
Internal memory *	4 GB	Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✗
Internal memory type	DDR3-SDRAM	Intel 64	✓
Memory clock speed	1600 MHz	Execute Disable Bit	✓
Memory form factor	SO-DIMM	Idle States	✓
Memory layout (slots x size)	1 x 4 GB	Thermal Monitoring Technologies	✓
Memory slots	2x SO-DIMM	Processor package size	31 x 24 (BGA1023)
Maximum internal memory *	16 GB	Supported instruction sets	AVX
Storage		Processor code	SR0WX
Total storage capacity *	750 GB	CPU configuration (max)	1
Storage media *	HDD	Embedded options available	✗
Number of HDDs installed	1	Graphics & IMC lithography	22 nm
HDD capacity	750 GB	Intel Virtualization Technology for Directed I/O (VT-d)	✗
HDD interface	SATA	Intel Identity Protection Technology version	1.00
HDD speed	5400 RPM	Intel Secure Key Technology version	1.00
HDD size	2.5"	Intel Virtualization Technology (VT-x)	✓
Optical drive type *	DVD Super Multi DL	Intel Dual Display Capable Technology	✓
Card reader integrated	✓	Intel FDI Technology	✓
Compatible memory cards	SD, SDHC, SDXC	Intel Rapid Storage Technology	✗
Graphics		Intel Fast Memory Access	✓
On-board graphics card *	✓	Processor ARK ID	72056
On-board graphics card family	Intel® HD Graphics	Conflict-Free processor	✓
On-board graphics card model *	Intel® HD Graphics 4000	Integrated 4G WiMAX	✓
On-board graphics card base frequency	650 MHz	Battery	
On-board graphics card dynamic frequency (max)	1100 MHz	Battery technology	Lithium-Ion (Li-Ion)
On-board graphics card ID	0x166	Number of battery cells	6
Audio		Battery life (max)	7.45 h
Audio system	DTS Sound+	Power	
Number of built-in speakers	2	AC adapter power	65 W
Built-in microphone	✓	DC-in jack	✓
Camera		Security	
Front camera	✓	Cable lock slot	✓
Network		Fingerprint reader	✓
Wi-Fi	✓	Weight & dimensions	
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)	Width	375 mm
Ethernet LAN	✓	Depth	256 mm
Ethernet LAN data rates	10,100,1000 Mbit/s	Height	22.8 mm
Bluetooth	✓	Weight *	2.4 kg
Bluetooth version	4.0	Packaging content	
Ports & interfaces		AC adapter included *	✓
USB 2.0 ports quantity *	2	Manual	✓
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2	Power cord included	✓
Ethernet LAN (RJ-45) ports	1	Other features	
HDMI ports quantity *	1	LightScribe	✗
DVI port	✗	Maximum internal memory (64-bit)	16 GB
VGA (D-Sub) ports quantity	1	Intel® Virtualization Technology (Intel® VT)	VT-x
Headphone outputs	1	Intel segment tagging	Enterprise, Professional
S/PDIF out port	✗		
Microphone in	✓		
Docking connector	✗		
ExpressCard slot	✗		
CardBus PCMCIA slot type	✗		
SmartCard slot	✗		

Performance

Motherboard chipset	Intel HM76 Express
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Keyboard

Pointing device	Touchpad
Numeric keypad *	✓
Spill-resistant keyboard	✓
Full-size keyboard	✓
Windows keys	✓

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