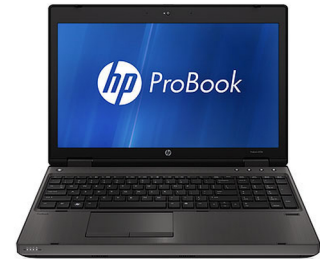# HP ProBook 6570b Intel® Core™ i5 i5-3210M 39.6 cm (15.6") HD+ 4 GB DDR3-SDRAM 500 GB HDD Windows 7 Professional

Brand : HP   **Product family:** ProBook   **Product code:** B6P81EA#ABB

Product name : 6570b

Intel Core i5-3210M (3M Cache, up to 3.10 GHz), 4GB DDR3 SDRAM, 500GB HDD, 15.6" LED LCD, Intel HD Graphics 4000, DVD Super-Multi DL, Gigabit Ethernet, 802.11a/b/g/n, Bluetooth 4.0+EDR, Windows 7 Professional 64-Bit
HP ProBook 6570b. Form factor: Clamshell. Processor family: Intel® Core™ i5, Processor model: i5-3210M, Processor frequency: 2.5 GHz. Display diagonal: 39.6 cm (15.6"), HD type: HD+, Display resolution: 1600 x 900 pixels. Internal memory: 4 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 4000. Operating system installed: Windows 7 Professional. Weight: 2.51 kg

Design

Form factor *	Clamshell
Country of origin	China

Display

Display diagonal *	39.6 cm (15.6")
Display resolution *	1600 x 900 pixels
Touchscreen *	✘
HD type	HD+
LED backlight	✔
Native aspect ratio	16:9
Display diagonal (metric)	15.6 cm

Processor

Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	3rd gen Intel® Core™ i5
Processor model *	i5-3210M
Processor cores	2
Processor threads	4
Processor boost frequency	3.1 GHz
Processor frequency *	2.5 GHz
System bus rate	5 GT/s
Processor cache	3 MB
Processor cache type	Smart Cache
Processor socket	BGA 1023
Processor lithography	22 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-3200 Mobile series
Processor codename	Ivy Bridge
Bus type	DMI
FSB Parity	✘
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)	25
ECC supported by processor	✘

Keyboard

Full-size keyboard	✔

Software

Operating system architecture	64-bit
Operating system installed *	Windows 7 Professional
Bundled software	Adobe Flash Player Microsoft Security Essentials WinZip Basic

Processor special features

Intel® Wireless Display (Intel® WiDi)	✔
Intel® My WiFi Technology (Intel® MWT)	✔
Intel® Anti-Theft Technology (Intel® AT)	✔
Intel® Identity Protection Technology (Intel® IPT)	✔
Intel® Hyper Threading Technology (Intel® HT Technology)	✔
Intel® Turbo Boost Technology	2.0
Enhanced Intel SpeedStep Technology	✔
Intel® Clear Video HD Technology (Intel® CVT HD)	✔
Intel Clear Video Technology	✘
Intel® InTru™ 3D Technology	✔
Intel® Insider™	✔
Intel® Quick Sync Video Technology	✔
Intel Flex Memory Access	✔
Intel® Smart Cache	✔
Intel® AES New Instructions (Intel® AES-NI)	✔
Intel Trusted Execution Technology	✘
Intel Enhanced Halt State	✔
Intel VT-x with Extended Page Tables (EPT)	✔
Intel Demand Based Switching	✘
Intel® Secure Key	✔
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔

Memory

Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1600 MHz
Memory slots	2x SO-DIMM
Maximum internal memory *	16 GB

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Number of HDDs installed	1
HDD capacity	500 GB
HDD interface	SATA II
HDD speed	7200 RPM
Optical drive type *	DVD Super Multi DL
Card reader integrated	✔
Compatible memory cards	MMC, SD

Graphics

Discrete graphics card model *	Not available
On-board graphics card *	✔
Discrete graphics card *	✘
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 4000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1100 MHz
On-board graphics card ID	0x166

Audio

Audio system	SRS PS
Built-in speaker(s)	✔
Built-in microphone	✔

Network

Wi-Fi	✔
Wi-Fi standards	802.11a, 802.11b, 802.11g
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	4.0
WWAN	Not installed
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	2
USB 3.2 Gen 1 (3.1 Gen 1) Type-A ports quantity *	2
eSATA/USB 2.0 ports quantity	1
Ethernet LAN (RJ-45) ports	1
DisplayPorts quantity	1
DVI port	✘
VGA (D-Sub) ports quantity	1
Firewire (IEEE 1394) ports	1
Headphone outputs	1
S/PDIF out port	✘
Microphone in	✔
Docking connector	✔
ExpressCard slot	✔
CardBus PCMCIA slot type	✘
SmartCard slot	✘
Serial ports quantity	1

Processor special features

Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	31.0 x 24.0 (BGA1023)
Supported instruction sets	AVX
Processor code	SR0N0
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	22 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✔
Intel Identity Protection Technology version	1.00
Intel Secure Key Technology version	1.00
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✔
Intel FDI Technology	✔
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✔
Processor ARK ID	65708
Conflict-Free processor	✔
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	55 Wh
Battery life (max)	7.25 h

Power

AC adapter power	65 W
AC adapter frequency	50 - 60 Hz
AC adapter input voltage	100 - 240 V
DC-in jack	✔

Security

Cable lock slot	✔
Trusted Platform Module (TPM)	✔

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	374 mm
Depth	251 mm
Height	34 mm
Weight *	2.51 kg

Packaging content

AC adapter included *	✔
Handheld remote control	✘

Other features

Infrared data port	✘
Graphics card family	Intel
Type	PC
Display	LCD
Power supply type	AC/DC
Compliance industry standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3ab
Ethernet interface type	Gigabit Ethernet

Performance		Other features	
Motherboard chipset	Intel HM76 Express	Floppy drive installed	✘
Keyboard		Internal modem	✘
Pointing device	Touchpad	Intel segment tagging	Enterprise
Numeric keypad *	✔		
Spill-resistant keyboard	✔		