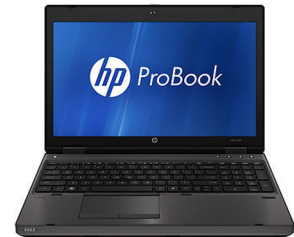# HP

HP ProBook 6560b Intel® Core™ i5 i5-2450M 39.6 cm (15.6") 4 GB DDR3-SDRAM 500 GB HDD AMD Radeon HD 6470M Wi-Fi 4 (802.11n) Windows 7 Professional

Brand : HP   **Product family:** ProBook   **Product code:** LY448ET

Product name : 6560b

ProBook 6560b - Intel® Core™ i5-2450M 2.50GHz, 4GB 1333MHz DDR3 SDRAM, 500GB 7200rpm SATA II, DVD+/-RW SuperMulti DL, 39.6cm (15.6") HD, AMD Radeon HD 6470M, 720p HD Webcam, 802.11b/g/n, Bluetooth 2.1+EDR, Windows® 7 Professional 64

HP ProBook 6560b. Processor family: Intel® Core™ i5, Processor model: i5-2450M, Processor frequency: 2.5 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: 500 GB, Storage media: HDD, Optical drive type: DVD Super Multi DL. On-board graphics card model: Intel® HD Graphics 3000, Discrete graphics card model: AMD Radeon HD 6470M. Operating system installed: Windows 7 Professional. Weight: 2.5 kg

Design	
Country of origin	China

Display	
Display diagonal *	39.6 cm (15.6")
Display resolution *	1366 x 768 pixels
LED backlight	✔
Native aspect ratio	16:9

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™ i5
Processor generation	2nd gen Intel® Core™ i5
Processor model *	i5-2450M
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 lithography	32 nm
Processor operating modes	64-bit
Processor series	Intel Core i5-2400 Mobile Series
Processor codename	Sandy Bridge
Bus type	DMI
FSB Parity	✗
Stepping	J1
Thermal Design Power (TDP)	35 W
Tjunction	100 °C
Maximum number of PCI Express lanes	16
PCI Express slots version	2.0
PCI Express configurations	1x16, 2x8, 1x8+2x4
CPU multiplier (bus/core ratio)	25
ECC supported by processor	✗

Memory	
Internal memory *	4 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory slots	2x SO-DIMM

Performance	
Motherboard chipset	Intel® HM65 Express

Keyboard	
Pointing device	Touchpad
Numeric keypad *	✔
Spill-resistant keyboard	✔

Software	
Operating system architecture	64-bit
Trial software	Norton Internet Security 2011
Operating system installed *	Windows 7 Professional

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	✗

Memory

Maximum internal memory *	16 GB

Storage

Total storage capacity *	500 GB
Storage media *	HDD
Total HDDs capacity	500 GB
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 *	AMD Radeon HD 6470M
Discrete graphics card memory	0.512 GB
Discrete graphics memory type	GDDR3
On-board graphics card *	✔
Discrete graphics card *	✔
On-board graphics card family	Intel® HD Graphics
On-board graphics card model *	Intel® HD Graphics 3000
On-board graphics card base frequency	650 MHz
On-board graphics card dynamic frequency (max)	1300 MHz
On-board graphics card ID	0x116

Audio

Audio system	SRS PS
Number of built-in speakers	2
Built-in microphone	✔

Network

Wi-Fi	✔
Networking features	Gigabit Ethernet
Top Wi-Fi standard *	Wi-Fi 4 (802.11n)
Wi-Fi standards	802.11b, 802.11g, Wi-Fi 4 (802.11n)
Ethernet LAN	✔
Ethernet LAN data rates	10,100,1000 Mbit/s
Bluetooth	✔
Bluetooth version	2.1+EDR
Cabling technology	10/100/1000Base-T(X)

Ports & interfaces

USB 2.0 ports quantity *	4
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	✘
Modem (RJ-11) ports	1
TV-out	✘
Serial ports quantity	1

Processor special features

Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Idle States	✔
Thermal Monitoring Technologies	✔
Processor package size	37.5x37.5 (rPGA988B); 31 x 24 (BGA1023)
Supported instruction sets	AVX
Processor code	SR04Z
CPU configuration (max)	1
Embedded options available	✘
Graphics & IMC lithography	32 nm
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Identity Protection 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	53452
Conflict-Free processor	✘
Integrated 4G WiMAX	✔

Battery

Battery technology	Lithium-Ion (Li-Ion)
Number of battery cells	6
Battery capacity *	51 Wh

Power

AC adapter power	65 W
DC-in jack	✔

Security

Cable lock slot	✔
Trusted Platform Module (TPM)	✔

Operational conditions

Operating temperature (T-T)	5 - 35 °C
Operating relative humidity (H-H)	10 - 90%

Sustainability

Sustainability certificates	ENERGY STAR

Weight & dimensions

Width	374 mm
Depth	251 mm
Height	34 mm
Weight *	2.5 kg

Packaging content

AC adapter included *	✔

Other features

Infrared data port	✘
Graphics card family	AMD, Intel
Type	PC
Display	LED
Intel segment tagging	Enterprise

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