HP ProBook 4310s Intel® Core™2 Duo T6570 33,8 cm (13.3") 2 GB DDR3-SDRAM 250 GB Intel® GMA 4500MHD Windows Vista Business Black

Brand : HP

Product code: VK257PA

Product name : ProBook 4310s

ProBook 4310s Notebook PC
HP ProBook 4310s. Processor family: Intel® Core™2 Duo, Processor model: T6570, Processor frequency: 2,1 GHz. Display diagonal: 33,8 cm (13.3"), Display resolution: 1366 x 768 pixels. Internal memory: 2 GB, Internal memory type: DDR3-SDRAM. Total storage capacity: 250 GB, Optical drive type: DVD Super Multi DL. Discrete graphics card model: Intel® GMA 4500MHD. Operating system installed: Windows Vista Business. Product colour: Black. Weight: 1,97 kg

Design	
Product colour *	Black
Country of origin	China

Display	
Display diagonal *	33,8 cm (13.3")
Display resolution *	1366 x 768 pixels
LED backlight	✔
Native aspect ratio	16:9

Processor	
Processor manufacturer *	Intel
Processor family *	Intel® Core™2 Duo
Processor model *	T6570
Processor cores	2
Processor threads	2
Processor frequency *	2,1 GHz
Processor cache	2 MB
Processor cache type	L2
Processor socket	Socket 478
Processor lithography	45 nm
Processor operating modes	32-bit, 64-bit
Processor codename	Penryn
FSB Parity	✘
Thermal Design Power (TDP)	35 W
Tjunction	100 °C
Number of Processing Die Transistors	410 M
Processing Die size	107 mm²
ECC supported by processor	✘

Memory	
Internal memory *	2 GB
Internal memory type	DDR3-SDRAM
Memory clock speed	1333 MHz
Memory slots	2x SO-DIMM
Maximum internal memory *	8 GB

Storage	
Total storage capacity *	250 GB
HDD speed	7200 RPM
Optical drive type *	DVD Super Multi DL

Processor special features	
Intel® Wireless Display (Intel® WiDi)	✘
Intel® My WiFi Technology (Intel® MWT)	✘
Intel® Anti-Theft Technology (Intel® AT)	✘
Intel® Hyper Threading Technology (Intel® HT Technology)	✘
Intel® Turbo Boost Technology	✘
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® 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® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID)	✘
Intel 64	✔
Execute Disable Bit	✔
Thermal Monitoring Technologies	✘
Embedded options available	✘
Intel Virtualization Technology for Directed I/O (VT-d)	✘
Intel Virtualization Technology (VT-x)	✔
Intel Dual Display Capable Technology	✘
Intel FDI Technology	✘
Intel Rapid Storage Technology	✘
Intel Fast Memory Access	✘

Storage	
Card reader integrated	✗
Graphics	
Discrete graphics card model *	Intel® GMA 4500MHD
Discrete graphics card *	✓
Audio	
Number of built-in speakers	2
Network	
Networking features	Marvell Ethernet (10/100/1000 NIC)
Bluetooth	✓
Bluetooth version	2.1+EDR
Ports & interfaces	
USB 2.0 ports quantity *	3
Ethernet LAN (RJ-45) ports	1
HDMI ports quantity *	1
DVI port	✗
VGA (D-Sub) ports quantity	1
Headphone outputs	1
S/PDIF out port	✗
Microphone in	✓
Docking connector	✓
ExpressCard slot	✓
CardBus PCMCIA slot type	✗
SmartCard slot	✗
Modem (RJ-11) ports	1
TV-out	✗
Performance	
Motherboard chipset	Intel® GM45 Express
Keyboard	
Pointing device	Touchpad + Scroll zone
Software	
Optional operating system supplied	Windows XP Professional
Operating system installed *	Windows Vista Business

Processor special features	
Processor ARK ID	42841
Conflict-Free processor	✗
Battery	
Number of battery cells	4
Power	
AC adapter power	65 W
DC-in jack	✓
Security	
Cable lock slot	✓
Cable lock slot type	Kensington
Password protection type	BIOS
Weight & dimensions	
Weight *	1,97 kg
Other features	
Wireless technology	Intel 802.11 a/b/g/n draft 2.0
LightScribe	✓
Infrared data port	✗
Graphics card family	Intel
Type	PC
Dimensions (WxDxH)	325 x 228 x 27,3 mm
Expansion slots	SD, MMC
TV-in port	✗
HDD user password	✓
Internal modem	✓
Modem speed	56 Kbit/s
Modem type	v.92

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