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HP ProBook 4310s Notebook PC (VQ491EA) - Specifications

Windows®. Life without Walls™. HP recommends Windows 7.

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Processor type

Intel® Centrino® 2 processor technology
• Intel® Core™2 Duo Processor T6570
• 2.10 GHz , 2 MB L2 cache, 800 MHz FSB

Operating system installed

Genuine Windows® 7 Professional 32-bit

Compatible operating systems

Genuine Windows® 7 Professional 64-bit, SuSE Linux Enterprise Desktop 10

Display type

TFT

Display size (diagonal)

33,8 cm (13.3")

Product weight

Starting at 1.97 kg

Product dimensions (W x D x H)

32.50 x 22.80 x 2.73 (at front) cm

Battery life

Up to 4h15min

System features

Internal drives

320 GB

Hard disk drive speed

7200 rpm

Optical drives

SATA DVD+/-RW SuperMulti LightScribe Drive with Double Layer Fixed

Standard memory

2 x 2048 MB DDR3

Memory slots

2 SODIMM slots supporting dual channel memory



Please rate this page



Maximum memory	Upgradeable to 8192 MB maximum
Chipset	Mobile™ Intel® PM45 Express Chipset
Portability	
Product weight	Starting at 1.97 kg
Product dimensions (W x D x H)	32.50 x 22.80 x 2.73 (at front) cm
Display type	TFT
Display size (diagonal)	33,8 cm (13.3")
Display	33,8 cm (13.3") LED HD Anti-Glare (1366 x 768 resolution) or 33,8 cm (13.3") LED HD BrightView (1366 x 768 resolution), integrated 2 MP webcam
Connectivity	
Wireless technologies	Intel 802.11b/g/draft-n, Bluetooth® 2.1
Wireless capability	Yes
Modem	No modem included
Network interface	Marvell Ethernet (10/100/1000 NIC)
Expandability	
Expansion slots	Slots available for additional devices: 1 ExpressCard/34 slot, 1 Secure Digital (SD) slot
External I/O ports	3 USB 2.0 ports, VGA, stereo microphone in, stereo headphone/line out, HDMI, power connector, RJ-45, optional RJ-11
Software	
Pre-installed software	HP Recovery Manager, HP QuickLook 3, HP SoftPaq Download Manager, Roxio Creator Business, Skype, WinZip
Software included	HP Help and Support Center, HP QuickLaunch Buttons Software, PDF Complete SE, Intervideo WinDVD - DVD Player, Webcam Software
Manageability features	Intel® Centrino® technology capable
Graphic / audio	
Graphic subsystem name	ATI Mobility Radeon™ HD 4330
Graphic subsystem video card memory	512 MB of dedicated video memory
Video resolutions description	13.3" LED HD Anti-Glare (1366 x 768 resolution), integrated 2 MP webcam
Audio	High Definition Audio, stereo speakers, stereo headphone/line out, stereo microphone in, integrated microphone (integrated dual-microphone array with webcam)
Other information	
Keyboard	Full-sized keyboard
Pointing device	Touchpad with scroll zone
Warranty	1 year pick-up and return (upgrades available, sold separately), 1 year warranty on primary battery
Power features	4-cell (37 WHr) Li-Ion battery
Power requirements	External 90W HP Smart AC Adapter, HP Fast Charge
Battery life	Up to 4h15min
HP Protection tools	HP ProtectTools, Device Access Manager, Enhanced Pre-Boot Security, HP Spare Key, HP Disk Sanitizer, Drive Encryption for HP ProtectTools, Credential Manager for HP ProtectTools, File Sanitizer for HP ProtectTools
Security management	McAfee Security Solution, Kensington Lock slot

Docking solution	HP USB 2.0 Docking Station, HP Essential USB Port Replicator, HP Basic Adjustable Stand (all sold separately)
Manageability features	Intel® Centrino® technology capable
Operating humidity range	10 to 90% RH
Non-operating humidity	5 to 95% RH
Storage temperature range	-20° to 60°C

Disclaimers

This system may require upgraded and/or separately purchased hardware and/or a DVD drive to install the Windows 7 software and take full advantage of Windows 7 functionality. See <http://www.microsoft.com/windows/windows-7/> for details.

HP's WEEE registration number is WEE/EJ0076US This means that HP is a registered producer under the Waste Electrical and Electronic Equipment Regulations 2007. Read more about [recycling your old IT equipment](#)

HP is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at: www.hp.com/go/reach.

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