HP COMPAQ 2230S NOTEBOOK PC

BUSINESS ON THE MOVE
Affordable, practical, 12.1-inch diagonal display, Intel processors

HP recommends Windows Vista® Business

Stay one step ahead with the extremely mobile, highly affordable HP Compaq 2230s Notebook PC. Mobile office features such as a 12.1-inch diagonal display, latest Intel® Core™2 Duo processors,[2] and wireless technologies[4] makes this mobile device a must-have for professionals on the go.

Technology to go

Starting at 4.07 lb/1.85 kg with a satin, reflective black-on-black surface, this is a stylish notebook with all the essential business features. With the 12.1-inch diagonal widescreen display you choose between an anti-glare display or an HP BrightView display. Experience new levels of system responsiveness when running multiple applications and smarter battery performance designed to help extend mobility with Intel® Core™2 Duo processors.[2]

Experience life in high-definition

Connect directly to high-resolution displays with one convenient optional HDMI cable to view high definition content.[13] Plus, stay connected where you need to work with Wi-Fi Certified

WLAN[4] and integrated Bluetooth® wireless technologies.

HP Professional Innovations help you focus on your business

Built to protect. An array of multi-layered, customizable security solutions help defend your network, your applications, and your data. Drive Encryption for HP ProtectTools encodes all information on your hard drive to help protect your sensitive information from being readable to an unauthorized person if your notebook is lost or stolen.

Built to simplify. The new HP SoftPaq Download Manager provides a simple, powerful way to download software updates to your PC environment in as few as three steps.

Built to last. HP 3D DriveGuard uses a three-axis accelerometer to detect any sudden movement and initiate protective action, helping to protect your notebook's hard drive against impact, bumps, or drops so your critical information is easily protected while you are on the move. HP Business Notebooks undergo over 95,000 hours of rigorous quality testing to ensure your notebook is ready to go the distance.
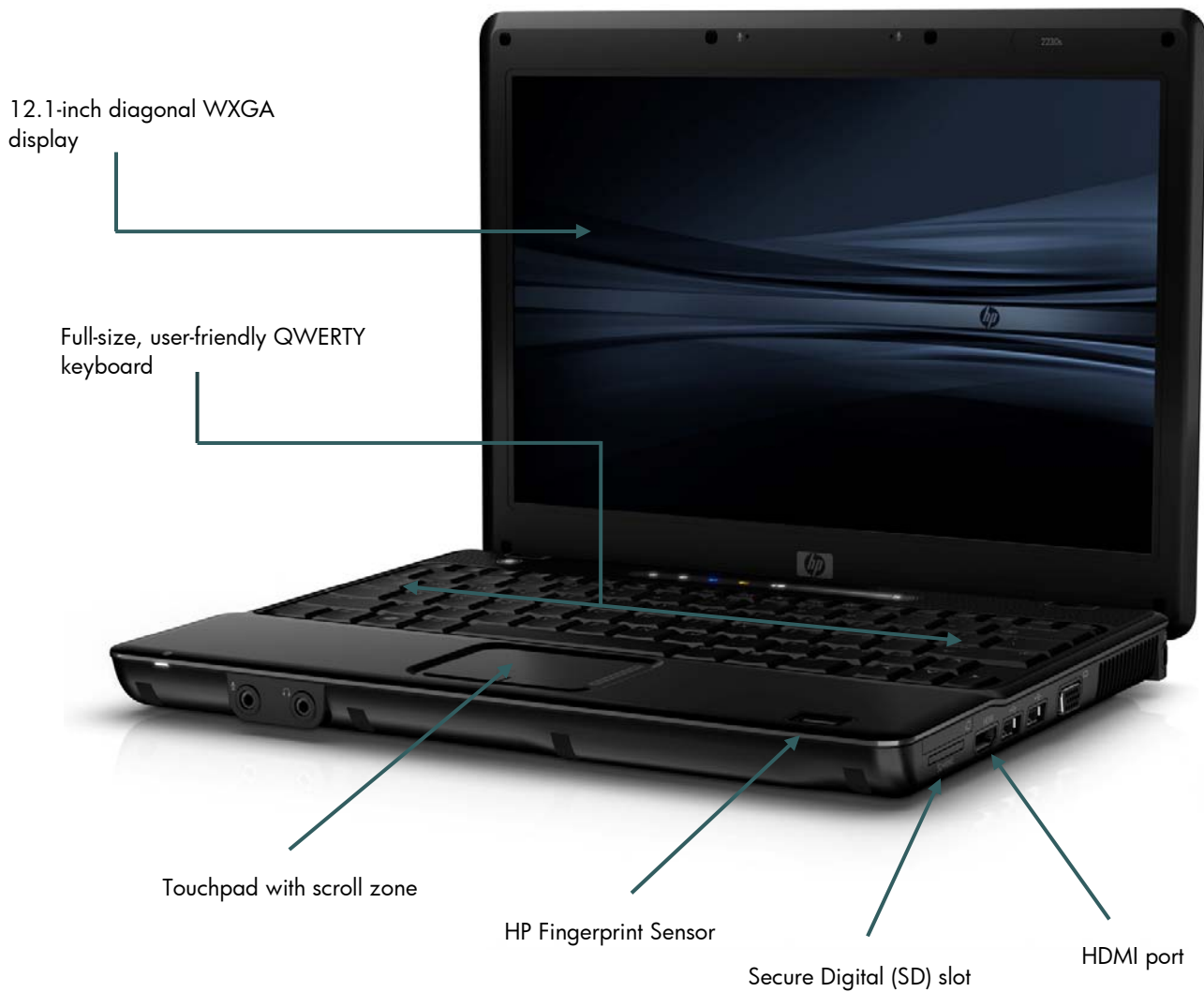
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Operating system	**Preinstalled:** Genuine Windows Vista® Business 32[1] Genuine Windows Vista Business with downgrade to Windows XP Professional custom installed[1, 12] Genuine Windows Vista Home Basic 32[1] FreeDOS **Supported:** Genuine Windows® XP Professional **Certified:** SuSe Linux Enterprise Desktop 10
Processor	Intel® Core™2 Duo[2] (up to 2.8 GHz, 6 MB L2 cache); Intel Celeron (up to 2.16 GHz, 1 MB L2 cache)
Chipset	Mobile Intel GM45 Express Chipset ICH9M-Enhanced
Memory[9]	DDR2 SDRAM 800 MHz, two slots supporting dual channel memory, 1024/2048/4096 MB SODIMMs, up to 8192 MB total[11]
Internal Storage[6]	120/160/250/320 GB 5400 rpm SATA hard drive (with HP 3D DriveGuard)
Removable Storage[3]	Fixed 12.7-mm SATA optical drive: DVD+/–RW SuperMulti DL LightScribe Drive, DVD/CD-RW Combo Drive, DVD-ROM Drive
Display	12.1-inch diagonal WXGA (1280 x 800), 12.1-inch diagonal WXGA BrightView (1280 x 800)
Graphics	Mobile Intel Graphics Media Accelerator 4500MHD, up to 384 MB of shared system memory [7]
Audio	High Definition Audio, stereo speakers, stereo headphone/line out, stereo microphone in, integrated dual-microphone array
Wireless support[4,5]	Intel 802.11a/b/g/n draft 2.0, Broadcom 802.11a/b/g/n draft 2.0, b/g, Bluetooth™ 2.0, HP Wireless Assistant
Communications	Marvell Ethernet (10/100/1000 NIC), 56K v.92 modem
Expansion slots	1 ExpressCard/34 slot, Secure Digital (SD) slot
Ports and connectors	3 USB 2.0 ports, HDMI, VGA, stereo microphone in, stereo headphone/line out, power connector, RJ-11/modem, RJ-45/ethernet
Input device	Full-sized keyboard, touchpad with scroll zone
Software	HP Recovery Manager (Windows Vista only), Roxio Creator Business 10
Security	Standard: HP ProtectTools, HP Fingerprint Sensor, Enhanced Pre-Boot Security, HP Spare Key, HP Disk Sanitizer, Enhanced Drive Lock, Drive Encryption for HP ProtectTools, Credential Manager for HP ProtectTools, File Sanitizer for HP ProtectTools; Optional: Kensington lock, McAfee Security Solution[10]
Dimensions (h × w × d)	1.10 (at front) x 11.57 x 8.90 in / 28 (at front) x 294 x 226 mm
Weight	Starting at: 4.07 lb / 1.85 kg (weight will vary by configuration)
Power	4-cell (37 WHr) Lithium-Ion battery, 65W HP Smart AC Adapter, HP Fast Charge[7]
Expansion Solutions[8]	HP Adjustable Notebook Stand
Warranty	Limited 3-year,1-year and 90-day warranty options available depending on country, 1-year limited warranty on primary battery. Optional HP Care Pack Services are extended service contracts which go beyond your standard warranties. For more details visit: http://www.hp.com/go/lookuptool.

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12.1-inch diagonal WXGA display

Full-size, user-friendly QWERTY keyboard

Touchpad with scroll zone

HP Fingerprint Sensor

Secure Digital (SD) slot

HDMI port

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1. Certain Windows Vista product features require advanced or additional hardware. See www.microsoft.com/windowsvista/getready/hardwarereqs.mspx and www.microsoft.com/windowsvista/getready/capable.mspx for details. Windows Vista Upgrade Advisor can help you determine which features of Windows Vista will run on your computer. To download the tool, visit www.windowsvista.com/upgradeadvisor.
2. Dual Core is a new technology designed to improve performance of certain software products. Not all customers or software applications will necessarily benefit from use of this technology. 64-bit computing on Intel architecture requires a computer system with a processor, chipset, BIOS, operating system, device drivers and applications enabled for Intel® 64 architecture. Processors will not operate (including 32-bit operation) without an Intel 64 architecture-enabled BIOS. Performance will vary depending on your hardware and software configurations. See www.intel.com/info/em64t for more information
3. Do not copy copy-right protected materials. Double Layer discs can store more data than single layer discs. Double-layer discs burned with this drive may not be compatible with many existing single-layer DVD drives and players. LightScribe creates a monochrome image. LightScribe media required and sold separately. Note that DVD-RAM cannot read or write to 2.6 GB Single Sided/5.2 GB Double Sided – Version 1.0 media.
4. WiFi access point and Internet service required and not included. Availability of public wireless access points limited. Wireless, internet, and VoIP require separately purchased service contract.
5. The specifications for the 802.11n WLAN are draft specifications and are not final. If the final specifications differ from the draft specifications, it may affect the ability of the notebook to communicate with other 802.11n WLAN devices.
6. For hard drives, GB = 1 billion bytes. Actual formatted capacity is less. Up to 8 GB (for XP) and 10 GB (for Vista) of system disk is reserved for the system recovery software.
7. HP Fast Charge recharges your primary battery up to 90% within 90 minutes when the system is off.
8. Sold separately or purchased as an optional feature.
9. Dual Channel is only supported when the system is configured with DDR2 symmetric memory (ie: 2x256).
10. 60 day trial period. Internet access required to receive updates. First update included. Subscription required for updates thereafter. This McAfee Total Protection for Small Business software is licensed to you by McAfee under the terms of the McAfee end user license agreement which can be read at www.mcafee.com
11. 32-bit operating systems can only address ~3.2 GB. To fully utilizing memory configurations of 4GB or more, a 64-bit operating system is required.
12. Windows Vista Business disk may be included for future upgrade if desired. To qualify for this downgrade an end user must be a business (including governmental or educational institutions) and is expected to order at least 25 customer systems with the same custom image.
13. HD content required to view HD images.

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