Intel® Technology for Business Notebooks

Small, medium and large businesses have a variety of computing needs. Whether it's performance, features or system price, Intel has the products to meet your needs.

Best – Intel® Centrino® 2 with vPro™ technology

Designed specifically for business, Intel® Centrino® 2 with vPro™ technology-based PCs deliver the outstanding dual-core performance and wireless capabilities of the Intel® Centrino® processor technology family, while reducing IT maintenance and management costs through hardware-based security, remote manageability, and full remote deployment.[1] Take advantage of a secure communications tunnel for updates, diagnostics and repair for notebooks in an open LAN outside the corporate firewall – maximizing the ability to proactively protect, maintain, and manage PCs – even when the OS is inoperable. At the same time, reap the benefits of excellent energy-efficient performance, sleek form factors, and the improved speed, reliability and predictability of the latest wireless infrastructures.

Better – Intel® Centrino® 2 processor technology

For companies that want great mobile performance, notebooks with Intel® Centrino® 2 processor technology deliver unrivaled performance and expanded wireless capabilities. These notebooks include a power-optimized chipset, a new sleep state, ultra-low wattage electronics, DDR3 memory (which lowers total device power while still allowing data to flow faster), and a variety of power-management options to deliver the longest possible battery life. And, with support for 802.11a/b/g/n protocols built in, these notebooks operate wirelessly with greater link reliability, predictability, and network performance.[2]

Good – Intel® Core™2 Duo mobile processor

For companies interested in great performance, notebooks with the Intel® Core™2 Duo processor handle multitasking with compute-intensive tasks even while IT runs virus scans and anti-spyware utilities in the background. Notebooks with the Intel Core 2 Duo processor also deliver great energy efficiency for extended battery life, so users can get the most out of their mobile PCs.

	Good[Δ]	Better	Best	
Key features	intel Core 2 Duo inside	intel Centrino 2 inside	intel Centrino vPro inside	intel Centrino 2 vPro inside
Compute-intensive applications like CAD, digital content creation or financial analysis	●	●	●	●
Multitasking several applications or running security or communications utilities in the background	●	●	●	●
High-quality voice communication (VoIP) or video conferencing	○	●	●	●
Headroom for growth of computing demands over time	●	●	●	●
Plan purchases and deployment strategy with 2008 Intel® Stable Image Platform Program (Intel® SIPP)[3]	○	●	○	●
Remote maintenance and management of wired AC-powered notebooks within the corporate WAN, even when powered off or OS is unresponsive	○	○	●	●
Remote maintenance and management when wireless AC-powered notebook is asleep	○	○	○	●
Remote maintenance and management when outside corporate firewall, in host OS-based VPN	○	○	◑	●
Secure tunnel for updates, diagnostics, and repair in open LAN outside corporate firewall[4]	○	○	○	●
Remote configuration	○	○	◑	●
ASF compliant	○	○	●	●
Supports WS-MAN and DASH 1.0	○	○	○	●
Efficient design helps meet Energy Star* requirements	●	●	●	●
Lead-free, halogen-free[5]	●	●	◑	●

○ Not applicable ◑ Partial capability ● Advanced capability

Key features	Good[Δ]	Better	Best	
	Intel Core 2 Duo inside	Intel Centrino 2 inside	Intel Centrino vPro inside	Intel Centrino 2 vPro inside
Support for 802.1x	○	○	●	●
Support for Cisco Self-Defending Network* (Cisco SDN*) and PXE (preexecution environment)	○	○	●	●
Support for Microsoft Network Access Protection (NAP) 802.1x	○	○	○	●
Protect virtual environments against rootkit attacks by booting software into a trusted state and protecting credentials during shutdowns	○	○	○	●
Industry-standard TPM 1.2	○	○	○	●
Execute Disable Bit[6]	●	●	●	●
Windows Vista* BitLocker* ready	○	○	○	●
Microsoft Windows Vista* ready	●	●	●	●
Enhanced Intel SpeedStep® Technology[7]	●	●	●	●
64-bit architecture[8]	●	●	●	●
Intel® Graphics capability for Windows Vista* Aero interface	○	●	●	●
Integrated graphics (no discrete graphics card needed)	○	●	●	●
CPU Cores/Threads	2/2	2/2	2/2	2/2
CPU Front Side Bus	1066 MHz FSB	1066 MHz FSB	800 MHz FSB	1066 MHz FSB
Total L2 Cache	up to 6 MB	up to 6 MB	up to 6 MB	up to 6 MB
Memory	DDR3 up to 8 GB memory	DDR3 up to 8 GB memory	DDR2 up to 8 GB memory	DDR3 up to 8 GB memory
Memory configuration	3 DIMMs/2 channels	3 DIMMs/2 channels	3 DIMMs/2 channels	3 DIMMs/2 channels
Hardware-enabled virtualization to support multiple OSs and protect each virtual environment	○	○	◑	●
Intel® Turbo Memory (Optional)	●	●	●	●
802.11a/g networking	○	●	●	●
Intel® Next-Gen Wireless-N	○	●	◑	●
Gigabit Network Connection supporting Intel® vPro™ technology	○	○	●	●

[Δ] Intel Core 2 Duo processor T, P sequence 8400, 8600, 9400, 9500, 9600, and small form factor P, L, U sequence 9300 and 9400

[1] Intel® vPro™ technology includes Intel® Active Management technology (Intel® AMT). Intel® AMT requires the computer system to have an Intel® AMT-enabled chipset, network hardware and software, as well as connection with a power source and a corporate network connection. Setup requires configuration by the purchaser and may require scripting with the management console or further integration into existing security frameworks to enable certain functionality. It may also require modifications of implementation of new business processes. With regard to notebooks, Intel AMT may not be available or certain capabilities may be limited over a host OS-based VPN or when connecting wirelessly, on battery power, sleeping, hibernating or powered off. For more information, www.intel.com/technology/platform-technology/intel-amt

[2] Up to 2x greater range and up to 5x better performance with optional Intel® Next-Gen Wireless N technology enabled by 2x3 Draft N implementations with 2 spatial streams. Actual results may vary based on your specific hardware, connection rate, site conditions, and software configurations. See http://www.intel.com/performance/mobile/index.htm for more information. Also requires a Connect with Intel® Centrino® processor technology certified wireless n access point. Wireless n access points without the Connect with Intel® Centrino® processor technology identifier may require additional firmware for increased performance results. Check with your PC and access point manufacturer for details.

[3] Intel Stable Image Platform Program (SIPP). Check with your PC vendor for availability of platforms that meet SIPP guidelines.

[4] Systems using Client Initiated Remote Access (CIRA) require wired LAN connectivity and may not be available in public hot spots or "click to accept" locations. For more information on CIRA visit, www.intel.com/products/centrino2/vpro/index.htm

[5] 45nm product is manufactured on a lead-free process. Lead-free per EU RoHS directive July, 2006 (2002/95/EC, Annex A). Some EU RoHS exemptions may apply to other components used in the product package. Residual amounts of halogens are below November 2007 proposed IPC/JEDEC J-STD-709 standards.

[6] Enabling Execute Disable Bit functionality requires a PC with a processor with Execute Disable Bit capability and a supporting operating system. Check with your PC manufacturer on whether your system delivers Execute Disable Bit functionality.

[7] Enhanced Intel SpeedStep® Technology for specified units of this processor available Q2/06. See the Processor Spec Finder at http://processorfinder.intel.com or contact your Intel representative for more information.

[8] 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. Consult with your system vendor for more information.

Printed in USA 0508/LKY/OCG/XX/PDF Please Recycle 319873-001US