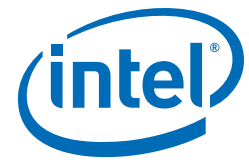


Overview

Intel® Core™ i5 vPro™ Processor
Intel® Core™ i7 vPro™ Processor



All New 2010 Intel® Core™ vPro™ Processor Family



Intel® Processor: Intel® Core™ i5 vPro™ and Intel® Core™ i7 vPro™ processors

Intel® Chipset: Intel® QM57, Q57 and QS57 Express Chipsets

Intel® Networking: Intel® 82578DM and 82577LM Gigabit Network Connections

Intel® Centrino® Wireless: Intel® Centrino® Advanced-N+ WiMAX 6250 or Intel® Centrino® Ultimate-N/Advanced-N 6000 Series

Cost Saving Manageability

- **Remotely repair and secure PCs** with hardware-based KVM Remote Control, even if they are asleep, hibernating, powered down, or the OS is inoperable, wired and wireless, inside or outside the corporate firewall!¹
- **Improved support for remote workers** with “Call for Help” through a wired or wireless protected tunnel to IT to manage and repair a PC even if it’s outside the firewall!
- **Hardware-assisted remote shutdown, wake-up and update** of PCs during off-hours reduces energy costs and enables near 100% patch saturation in hours rather than days.
- **Lower TCO** through platform image stability – at least 15 months from February 2010 with Intel® Stable Image Platform Program?²

Smart Security

- **Remotely isolate infected PCs** from the network and repair!
- **PC protection** through hardware-based local “poison pill” support³ (Intel® Anti-Theft technology).
- **Encrypted management console** to PC(s) communication with strong authentication!¹
- **Maintain remote manageability of PCs** (even if powered down or OS inoperable), including encrypted drives, without compromising strong end-point access control – support of 802.1x, Cisco NAC,* and Microsoft NAP.*¹
- **Enables trusted virtual environments** for central management and data security of alternate compute models, while enabling local computing independent of the network connection (Intel® Virtualization Technology⁴ and Intel® Trusted Execution Technology⁵).

Intelligent Performance

- **Up to 2.5X faster multi-tasking** and 30% more energy efficiency on a desktop with the new 2010 Intel® Core™ i5 processor vs. a 3-year-old PC.⁶
- **Intel® Turbo Boost Technology** in Intel® Core™ i5 vPro™ and Intel® Core™ i7 vPro™ processors automatically speeds up the processor when the user’s workload requires extra performance?⁷
- **Energy Star 4.0 compliant SKUs** offered by OEMs⁸

Broad Industry Support

- **IT activations** at both SMB and Enterprise IT with great ROI (see msp.intel.com or intel.com/go/vproexpert – search for “ROI Analysis”).
- **Offered from leading PC manufacturers.**
- **Over 80+ software vendors** with software solutions supporting Intel® vPro™ technology (e.g., Microsoft System Center* 2007, Symantec, LANDesk, HP Software, Cisco, N-Able, Absolute, CheckPoint, Citrix, VMware, LogMeIn, and many others).
- **Fourth-generation release of Intel vPro technology.**

Go Mobile for Better Productivity

Case studies estimate 51 minutes more office productivity per week by changing from desktops to laptops⁹

Intel® Active Management Technology Use Cases ¹	Usages	AC-powered wired or wireless laptop or wired desktop			Battery-powered wired or wireless laptop		
		AWAKE, OS WORKING PROPERLY	AWAKE, BUT OS UNRESPONSIVE	ASLEEP (Sx)	AWAKE, OS WORKING PROPERLY	AWAKE, BUT OS UNRESPONSIVE	ASLEEP (Sx)
Remote power up/power cycle	IT remotely powers down PCs to reduce energy costs; remotely powers up PCs for off-hours service or to ready PCs for next work shift.	YES	YES ¹³	YES	YES	YES ¹³	N/A
Remote boot	Remotely deploy OS and application upgrades (such as Windows* 7), and remotely reboot to complete the upgrade cycle.	YES	YES ¹³	YES	YES	YES ¹³	N/A
Remote diagnosis and repair	IT diagnoses remotely via "always available" event log, remote/redirected boot, console redirection, and hardware-based KVM.	YES	YES ¹³	YES	YES	YES ¹³	N/A
Locally scheduled maintenance	PC wakes itself from any sleep state (including full power down) to initiate secure communications to IT console for service.	YES	YES ¹³	YES	YES	YES ¹³	YES
Remote hardware/software asset tracking	Take a hardware and software inventory regardless of OS or power state.	YES ¹¹	YES ¹³	YES	YES ¹¹	YES ¹³	N/A
Remote software update	Third-party application discovers PC, powers up PC, provides patches or updates antivirus engines and signatures.	YES	YES ¹³	YES	YES	YES ¹³	N/A
Agent presence checking and alerting	Ensure critical applications are running.	YES ¹¹	YES ⁸	N/A	YES ¹¹	YES ¹³	N/A
System isolation and recovery	Automated or manual policy-based protection against virus outbreaks.	YES	YES ¹³	N/A	YES	YES ¹³	YES
Remote configuration ¹²	Configure and provision PCs without a desk-side visit.	YES ¹¹	N/A	N/A	YES ¹¹	N/A	N/A
Secure tunnel for communication outside corporate firewall ¹⁰	Remote repair and maintenance support for systems outside the firewall.	YES ¹⁰	YES ¹³	N/A	YES ¹⁰	YES ¹⁰	N/A

For more information on Intel vPro technology, visit www.intel.com/go/vpro and www.intel.com/go/vproexpert.

For more information on SMB training modules, visit www.intelplatformtraining.com.

For implementation help on managed services offerings, visit msp.intel.com and msp.intel.com/activation.

¹ Intel® Active Management Technology 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, see <http://www.intel.com/technology/platformtechnology/intel-amt/>.

² Check with your PC vendor for availability of platforms that meet Intel® Stable Image Platform Program (Intel® SIPP) guidelines. A stable image platform is a standardized hardware configuration that IT departments can deploy into the enterprise for a set period of time, which is usually 12 months. Intel SIPP is a client program only and does not apply to servers or Intel-based handhelds and/or handsets.

³ Intel® Anti-Theft Technology – PC Protection. No computer system can provide absolute security under all conditions. Intel® Anti-Theft Technology requires the computer system to have an Intel® AT-enabled chipset, BIOS, firmware release, software, and an Intel AT-capable Service Provider/ISV application and service subscription. The detection (triggers), response (actions), and recovery mechanisms only work after the Intel® AT functionality has been activated and configured. Certain functionality may not be offered by some ISVs or service providers and may not be available in all countries. Intel assumes no liability for lost or stolen data and/or systems or any other damages resulting thereof.

⁴ Intel® Virtualization Technology requires a computer system with an enabled Intel® processor, BIOS, virtual machine monitor (VMM) and, for some uses, certain computer system software enabled for it. Functionality, performance or other benefits will vary depending on hardware and software configurations and may require a BIOS update. Software applications may not be compatible with all operating systems. Please check with your application vendor.

⁵ No computer system can provide absolute security under all conditions. Intel® Trusted Execution Technology is a security technology under development by Intel and requires for operation a computer system with Intel® Virtualization Technology, an Intel Trusted Execution Technology-enabled processor, chipset, BIOS, Authenticated Code Modules, and an Intel or other compatible measured virtual machine monitor. In addition, Intel Trusted Execution Technology requires the system to contain a TPMv1.2 as defined by the Trusted Computing Group and specific software for some uses. See <http://www.intel.com/technology/security/> for more information.

⁶ Comparing pre-production Intel® Core™ i5-520M processor-based laptops to theoretical installed base of Intel® Core™2 Duo processor T5500. Laptop system configurations: Intel® Core™ i5-520M (3 MB Cache, 2.4 GHz), with Intel® Turbo Boost Technology and Intel® Hyper-Threading Technology on pre-production Intel® Ibox Peak HM55, Dual-channel Micron® 4 GB (2x2 GB) DDR3-1066 7-7-7-20 with Intel® Graphics Media Accelerator HD graphics, Hitachi® 320 GB HDD, Intel® Matrix Storage Manager 8.9.0.1023 (BIOS, Intel® INF and Graphics: pre-production, Imocompliant with VRD 11.1 requirements), Microsoft Windows® 7 Ultimate 64-bit RTM. Intel® Core™2 Duo processor T5500 (2 MB Cache, 1.66 GHz, 667 MHz FSB) in Lenovo Thinkpad® T60 laptop, Mobile Intel® 945GM Express Chipset, Micron® PC5300 DDR2 667 2x1 GB 5-5-5-15 memory, Intel® GMA 950 graphics 224 MB Dynamic video memory technology, Hitachi Travelstar® HTS721010G9SA00 SATA 100 GB 7200RPM HDD, BIOS Lenovo 79ETD7WW 2.17 with default settings, Microsoft Windows Vista® Ultimate. Multitasking claims based on financial calculations workload consisting of advanced spreadsheet calculation measured using Microsoft Excel® Monte Carlo Simulation plus Virus Scan. Security workload consists of Winzip® 12 decompressing an encrypted archive containing 200 photos, 125 of which are 10MP photos and 75 which are 6MP photos. The photos are in jpeg format. The total size of all the photos is about 830 MB.

⁷ Intel® Turbo Boost Technology available on the Intel® Core™ i7 processor and the Intel® Core™ i5 processor only. Intel Turbo Boost Technology requires a PC with a processor with Intel Turbo Boost Technology capability. Intel Turbo Boost Technology performance varies depending on hardware, software, and overall system configuration. Check with your PC manufacturer on whether your system delivers Intel Turbo Boost Technology. For more information, see <http://www.intel.com/technology/turboboost>.

⁸ ENERGY STAR denotes a system level energy specification, defined by the US Environmental Protection Agency, that relies upon all of the system's components, including processor, chipset, power supply, HDD, graphics controller, and memory to meet the specification. For more information, see http://www.energystar.gov/index.cfm?fuseaction=find_a_product.showProductGroup&pgw_code=CO

⁹ Systems using Client Initiated Remote Access require wired LAN connectivity and may not be available in public hot spots or "click to accept" locations. For more information on CIRA visit <http://www.intel.com/products/centrino2/vpro/index/htm>.

¹⁰ Source "Increase Productivity by Providing Notebooks Beyond Road Warriors" Forrester Consulting, October 2008.

¹¹ Also supported in presence of L3 VPN.

¹² Enterprise mode over LAN only.

¹³ Requires WPA, WPA2/802.11i security.

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