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Consumer Backgrounder

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Taking Mobile Computing to the Next Level with New Intel® Centrino® Processor Technology

What if you could pack all of the features of your home entertainment system – from movies and music to photos and games – into one notebook PC? Now you can with the newest Intel® Centrino® processor technology-based notebooks. Intel's leading mobile processor technology is now even better, and even more eco-friendly, with more performance for multitasking or intensive applications such as gaming or high-definition entertainment along with great power-saving features for the battery life you need to get the most from your mobile lifestyle.

The newest Intel Centrino-based notebooks allow you to:

- **Play More Intense Games:** Intel Centrino processor technology delivers increased realism and stunning visual detail with its great new features designed specifically to enhance your gaming experience.
- **Enjoy Longer Battery Life:** Free yourself from the power cord. New power management and power saving features help extend battery life, so you can enjoy and more entertainment, gaming and music while on-the-go.
- **Connect from Farther Away ... Faster:** Intel Centrino processor technology with Intel® Next-Gen Wireless-N supports draft 802.11n as well as previous 802.11a/b/g wireless standards. Data rates are up to 300Mbps – up to five times faster than 802.11a/g products and range is up to two times greater, which means better wireless reception for greater bandwidth at farther distances.²

- more -

- ***Get the Lead Out:*** The Intel 45nm Hi-k processor not only offers energy-efficient performance to give you the power you need to run demanding applications, while at the same time conserving energy in idle state; but these groundbreaking processors are also Eco-friendly through our use of lead-free technology today and halogen-free packaging technology coming later this year.
- ***Experience High-Def Music and Sound:*** Bring rich sound quality to your music, movies and gaming with Intel® High Definition Audio.
- ***Enjoy Clearer, Sharper Video:*** You can now enjoy clearer, sharper video thanks to Intel® Clear Video technology, which improves picture quality and color richness. Viewers can experience smoother stutter-free high-definition video playback, sharper image quality and customizable color controls.
- ***Innovate with Amazing Multimedia Performance:*** Enjoy up to twice the performance on video creation with Intel® HD Boost, and better performance on imaging and audio file conversion than ever before. Now you can even compress your videos over three times faster than before, and with great visual quality.³
- ***Connect to an HDTV:*** With the Intel® TV Wizard, you can easily connect your Intel Centrino-based notebook to an HDTV so you can share and enjoy your computer entertainment with friends and family.
- ***Open Applications & Boot up Faster:*** Look for Vista*-based notebooks with new Intel® Turbo Memory, an optional technology, for more responsive application loading & better boot time⁴

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¹ System performance, battery life, high-definition quality video playback and functionality, and wireless performance and functionality will vary depending on your specific operating system, hardware, chipset, connection rate, site conditions, and software configurations. References to enhanced performance including wireless as measured by SYSMark* 2004 SE, PCMark* 2005 and 3DMark*06, SPEC* CPU2006* and Adjacent Channel Interface (ACI)* refer to comparisons with previous generation Intel® Centrino® technologies. References to improved battery life as measured by MobileMark* 2007, if applicable, refer to previous generation Intel Centrino processor technology. Wireless connectivity and some features may require you to purchase additional software, services or external hardware. Availability of public wireless LAN access points is limited, wireless functionality may vary by country and some hotspots may not support Linux-based Intel Centrino processor technology systems. See www.intel.com/products/centrino/more_info for more information.

² Up to 2x greater range and up to 5x better performance 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 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 the increased performance results. Check with your PC and access point manufacturer for details.

³ As measured by platform capabilities for immersive entertainment comparing latest generation pre-production Intel® Centrino® processor technology-based notebooks with comparable frequency single core Intel Centrino processor technology. Actual performance may vary. See www.intel.com/performance/mobile/dighome/index.htm for important additional information.

⁴Tests run on latest generation Intel® Centrino® processor technology with optional Intel® Turbo Memory enabled against like systems without Intel® Turbo Memory. Results may vary based on hardware, software and overall system configuration. All tests and ratings reflect the approximate performance of Intel products as measured by those tests. All testing was done on Microsoft Vista* Ultimate (build 6000). Application load and runtime acceleration depend on Vista*'s preference to pre-load those applications into the Microsoft ReadyBoost* cache. Boot-time performance depends on BIOS and POST execution times as well as hard drive performance. Power savings will depend upon the system power management settings as well as the specific hard drive used. See www.intel.com/performance/mobile/Intel_Turbo_Memory.htm for more information.

*Other names and brands may be claimed as the property of their respective owners. SPEC, SPECint, SPECfp, SPECrate, SPECweb, SPECjbb are trademarks of the Standard Performance Evaluation Corporation. See: www.spec.org for more information on the benchmarks.

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