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Consumer Backgrounder

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**Reinventing Performance, Redefining Efficiency with New
Intel® Centrino® Duo 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 new Intel® Centrino® Duo processor technology-based notebooks. Intel's leading mobile processor technology is now even better with more power for multitasking or intensive applications such as gaming or high-definition entertainment and the power saving features you need to get the most from your mobile lifestyle.

Intel Centrino Duo-based notebooks allow you to:

- *Play More Intense Games:* Intel Centrino Duo processor technology features Intel's fourth-generation integrated graphic engine, the Intel® Graphics Media Accelerator X3100, and enhancements for clear, vivid video playback. Delivering up to two times the mobile performance of the previous-generation Intel Centrino-based notebooks, the latest Centrino Duo-based notebooks allow you to challenge your friends or team up with a buddy for an immersive game.

- *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 802.1a/g products and range is up to two times greater, which means better wireless reception for greater bandwidth at farther distances.

- *Watch HD TV and Video:* You can now enjoy clearer, sharper video thanks to Intel® Clear Video technology, which improves picture quality and color richness. Viewers can

- more -

experience smoother stutter-free high-definition video playback, sharper image quality and customizable color controls.

- *Connect to an HDTV:* With the new The Intel® TV Wizard, you can easily connect your Intel Centrino Duo-based notebook to an HDTV, so you can share and enjoy your computer entertainment with friends and family.

- *Experience High-Def Music and Sound:* Bring rich sound quality to your music, movies and gaming with Intel® High Definition Audio.

- *Share your Photos, Videos and Music:* Using Intel® Media Share Software, you can browse, stream or download media files from your Intel® Viiv™ processor technology-based PC onto your Intel Centrino-based notebook via a wireless home network, enabling you to more easily maximize your digital entertainment experience in, around and outside the home.

- *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.

- *Open Applications Faster:* Intel® Turbo Memory, a new optional technology, reduces the load and run time for frequently used memory-intensive applications, and helps your computer boot up to 20 percent faster while also reducing the notebook's power consumption.

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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 http://www.intel.com/products/centrino/more_info for more information.

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 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 the increased performance results. Check with your PC and access point manufacturer for details.

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