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News Backgrounder

Next Wave of Ultrabook™ Devices, Laptops and All-In-One PCs Now Available with 3rd Generation Intel® Core™ Processors

Industry Delivers on Vision for No-Compromise Experiences

NEWS HIGHLIGHTS

- Now available, the next wave of Ultrabook™ devices powered by 3rd generation Intel® Core™ processors are more responsive and offer enhanced security in a choice of designs.
- Due later this year, Intel is tracking 30 touch-enabled Ultrabook devices, including 10 convertible designs.
- New rugged and rigid chassis materials will appear in market next year based on a breakthrough in engineering methods, and will cost half that of today's machined aluminum options.

COMPUTEX, Taipei, Taiwan, June 5, 2012 – The next wave of ultra sleek [Ultrabook™](#) systems inspired by Intel are now available. Powered by [3rd generation Intel® Core™ processors](#), made with the world's most advanced 22nm 3-D tri-gate transistors, these new Ultrabook devices are responsive and more secure to better protect personal information. The new chips also offer increased media and graphics performance, long battery life and more choice in stylish designs.

This wave of Ultrabook devices brings Intel Corporation one step closer to delivering on the industry wide, multi-year endeavor to deliver a no-compromise, must-have computing experience. The innovation will continue in the coming years as Intel and the industry aim to raise the bar for personal computing experiences, evolving to more natural and intuitive interactions.

“Similar to the introduction of Intel® Centrino® nearly a decade ago, this is a time of revolutionary change in personal computing,” said [Kirk Skaugen](#), Intel vice president, general manager PC Client Group. “We’ve forecasted over five times more Ultrabooks to be introduced in the next 12 months as compared with the previous. This also includes new business, touch, and convertible designs. At the same time, we’ve continuously improved on security and responsiveness. With these new 3rd generation Intel Core-based Ultrabook devices, mobile computing as we know it today will suddenly seem old fashioned.”

Superior Experiences: Responsive, Stylish, Protected and Mobile

Ultrabook devices will wake in a flash, meaning the system will transition from deep sleep (S4 mode) to its active state in less than 7 seconds. Additionally, all Ultrabook devices are now required to be “responsive while active” in that they will load and run users’ favorite apps quickly¹.

Connecting at blazing speeds is also now possible with the addition of USB 3.0, Thunderbolt™ technology or both. Thunderbolt technology is a high-speed connection that

¹Requires 16GB of NAND cache and minimum PCMark Vantage benchmark scores.

allows incredibly fast transfers. For example, a full-length HD movie can be transferred to an Ultrabook in less than 30 seconds².

Security has become more important to protect users' data, devices and personal assets. The next wave of Ultrabook systems is equipped with enhanced security features, including [Intel® Anti-Theft technology](#) that lets people automatically disable the system if it is lost or stolen³. Available in 11 languages and in major markets worldwide, people can activate free, limited-time Intel AT service subscriptions from Absolute Software*, McAfee*, Norton* and Intel on an Ultrabook right out of the box.

Additionally, all 3rd generation Intel Core processor-based Ultrabook devices have [Intel® Identity Protection technology](#) built in to help keep users' identities safe⁴. With this technology, a payments processor, bank, online merchant, social media site or gaming site can establish a trusted relationship with the Ultrabook user and reduce the chance that imposters are using their identities on enabled websites and social networks.

Better Performance at Lower Power Levels

Taking advantage of the company's innovative 22nm tri-gate transistor manufacturing technology, Intel engineers have delivered significant improvements in performance for 3rd generation Intel Core processors with up to 22 percent faster performance on multithreaded applications compared to 2nd generation Intel® Core™ processors. For example, experiences when using photo editing software or many games will significantly improve based on the new processors.

The new Ultrabooks have up to twice the video processing and 3-D graphics performance of the prior generation, cutting a user's video processing time in half and making for a smoother, richer visual experience.

When comparing the graphics and video processing improvements versus a 3 year-old Intel® Core™ 2 Duo-based laptop, there is an up to 30 times improvement in video processing and up to a 19 times improvement in 3-D graphics.

Industry Delivers on No-Compromise Experiences

Conceived by Intel just over a year ago, the Ultrabook category was quickly embraced by the industry. More than 20 systems have been introduced since October 2011, and today momentum is growing with more than 110 3rd generation Intel Core processor-based Ultrabook devices under development.

Intel believes touch capabilities will fuel the industry to innovate and experiment with the style and design of future clamshell and Ultrabook convertible systems. This innovative design, which behaves like a laptop when users need to "create" and acts like a tablet when users want to "consume," provides people the ultimate flexibility to work smart and play harder. Intel anticipates that around 30 touch-enabled systems, including 10 convertibles, could become available later this year, with the number increasing over time.

² As compared to other PC I/O connection technologies including eSATA, USB, and IEEE 1394 Firewire*. Performance will vary depending on the specific hardware and software used. For more information go to www.intel.com/technology/io/thunderbolt.

³ No system can provide absolute security under all conditions. Requires an enabled chipset, BIOS, firmware, and software, and a subscription with a capable service provider. Consult your system manufacturer and service provider for availability and functionality. Intel assumes no liability for lost or stolen data and/or systems or any other damages resulting thereof. For more information, visit www.intel.com/go/anti-theft.

⁴ No system can provide absolute security under all conditions. Requires an Intel® Identity Protection Technology-enabled system, including a 2nd or 3rd gen Intel® Core™ processor, enabled chipset, firmware, and software, and participating website. Consult your system manufacturer. Intel assumes no liability for lost or stolen data and/or systems or any resulting damages. For more information, visit <http://ipt.intel.com>.

Intel is working across a broad cross-section of the industry to accelerate and enable thin and light designs. A recent and significant breakthrough in chassis design using existing materials and standard injection molding equipment will enable an Ultrabook chassis that is equivalent in quality to machined aluminum and die-cast metal solutions in the market today. Borrowing engineering approaches from the automotive and aerospace industries, the new chassis design has the potential to reduce chassis costs by up to 65 percent and is expected to be in market next year.

The introduction of 3rd Gen Intel Core also brings with it significant change to the business world with Intel® Core™ vPro™ and Intel® Small Business Advantage-enabled Ultrabook devices. The next-generation Intel vPro processor platform gives both the business user and IT managers what they want most: security paired with stylish designs, easy automation and new compute models that are both flexible and secure.

Innovation in the computing space is unprecedented and new experiences are being imagined all the time. For example, in the near future smartphones and other devices will be able to be charged easily and wirelessly from an Ultrabook or all-in-one PC. Additionally, with the addition of sensors such as GPS, accelerometer, ALS and proximity, the Ultrabook experience will continue to delight and surprise users worldwide.

About Intel

Intel (NASDAQ: INTC) is a world leader in computing innovation. The company designs and builds the essential technologies that serve as the foundation for the world's computing devices. Additional information about Intel is available at newsroom.intel.com and blogs.intel.com.

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