Intel® Core™ M Processor

Razor-thin Laptop Meets Ultra-fast Tablet

The new Intel® Core™ M processor (previously code-named "Broadwell Y") is the world's first commercially available 14nm processor. The Intel Core M processor was purpose-built to deliver the optimal blend of mobility and performance – amazing performance for the thinnest, fanless 2 in 1 devices over other processors. The Intel Core M processor features:

Great PC Performance. The Intel Core M processor delivers up to 50 percent faster compute performance[1] and 40 percent better graphics performance[2] versus the previous 4th generation Intel® Core™ processor. Consumers with older PCs will notice a more significant performance improvement. The Intel Core M processor delivers two times the compute performance and seven times better graphics versus a 4-year-old PC.[3]

Thin, Fanless 2 in 1s. The Intel Core M processor package is 50 percent smaller versus 4th generation Intel Core processors (Y series).[4] With the Intel Core M processor, Intel achieved a 60 percent reduction in thermal design power (TDP) versus 4th generation Intel Core processors (Y series).[5] Smaller, low-profile and cool-running motherboards let OEMs design sleek, silent (because they're fanless) systems less than 9 mm thin.

Even Longer Battery Life. In 2013, Intel delivered the biggest generation-over-generation battery life improvement in its history. The Intel Core M processor and platform power reductions to a power-sipping 4.5W raise the bar on battery life even higher – up to 20 percent (1.7 hours) longer on active workloads[6] and double the battery life versus a four year old PC.[7] This means you can catch up on hours of your favorite shows while on the go.

Business. For business 2 in 1s, Intel® Core™ M processors with Intel® vPro™ Technology will support Intel® Pro Wireless Display which delivers a high quality visual experience with enhanced security for IT and data privacy for end users. Select Intel Core™ M vPro™ platforms will also support WiGig-based wireless docking capabilities. Intel® Core™ M vPro™ platforms also have additional, hardware-assisted security enhancements like: enhanced encryption and secure managed containers with Intel SSD Pro 2500 Series.[7]

Conflict-free. The Intel Core M processor is also a "conflict-free" product, which means this product does not contain conflict minerals (tin, tantalum, tungsten and/or gold) that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo (DRC) or adjoining countries. For more information, visit www.intel.com/conflictfree.

Additional platform features include support for advanced audio and visuals, specifically: Intel® Smart Sound Technology for high-quality audio, low power, Wake on Voice and Intel® Wireless Display 5.0 for home with enhanced resolutions and smoother video. The Intel Core M platform also supports
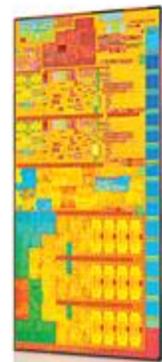
News Fact Sheet

Intel's second-generation 802.11ac products (Intel® Wireless-AC 7265) and will evolve to support wireless docking with WiGig from Intel.

Availability: The Intel Core M processor is available in several versions: the up to 2.0 GHz Intel® Core™ M-5Y10/5Y10a processors and the up to 2.6 GHz Intel® Core™ M-5Y70 processor. The Intel Core M-5Y70 is the highest-performing Intel Core M processor and is also available with Intel vPro technology for business 2 in 1s with built-in security features to help protect data, user identities and network access.[8] Intel Core M processor-based systems from a variety of manufacturers are expected to arrive in time for the 2014 holiday season with broader availability in early 2015. For more information visit: www.intel.com.

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. As a leader in corporate responsibility and sustainability, Intel also manufactures the world's first commercially available "conflict-free" microprocessors. Additional information about Intel is available at newsroom.intel.com and blogs.intel.com and about Intel's conflict-free efforts at conflictfree.intel.com.

[1] Up to 50 percent faster vs. 4th generation Intel Core processors based on: Specfp_rate_base 2006 5Y70 vs. 4302Y

[2] Up to 40 percent faster graphics vs. 4th generation Intel Core processors based on: 3D Mark Ice Storm 5Y70 w/Intel HD graphics 5300 vs. 4302Y with HD Graphics 4200

[3] Compared performance of a 4-year-old laptop (screen size: 11.6"; display resolution: 1366x768; Z height: 28 mm thick; weight: 3 lbs.; Serial ATA 150 HDD; 802.11 a/b/g/n WLAN; USB 2.0) to new Lenovo ThinkPad Helix 2 in 1 with the Intel® Core™ M processor (screen size: 11.6" touch screen; display resolution: 1920x1080; Z height: 9.6 mm/25.4 mm; weight: 1.76 lbs./3.3 lbs.; Serial ATA SSD; 802.11 ac WALAN; USB 3.0)

[4] 4th generation Intel® Core™ Processor (40 X 24 X 1.5 mm; 960 mm) vs. Intel® Core™ M processor (30 X 16.5 X 1.05 mm; 495 mm)

[5] Prior generation: Intel® Core™ i5-4302Y (up to 2.30GHz, 4T/2C, 3M Cache) on Intel Reference Platform. 4.5W Thermal Design Power. BIOS:WTM 137 Graphics : Intel® HD Graphics (driver v. 165.36.3650) Memory: 4 GB (2x2GB) Dual Channel LPDDR3-1600 SDD: Intel® 160GB OS: Windows* 8.1 Update RTM. System Power Management Policy: Balance Wireless: On and connected. Battery size assumption: 35WHr.

[6] Intel Core M battery life tested vs. 4th generation Intel® Core™ processor based platforms – 11.6" panel; 19x10; 200 nits; 35WHr battery; SSD; 4GB memory.

[7] Results have been estimated based on internal Intel analysis and are provided for informational purposes only. Any difference in system hardware or software design or configuration may affect actual performance.

[8] No computer system can provide absolute security. Requires an enabled Intel processor, enabled chipset, firmware and/or software optimized to use the technologies. Consult your system manufacturer and/or software vendor for more information.