



Intel Introduces New Mobile Platforms and Products at Mobile World Congress

March 2, 2015 — At Mobile World Congress, Intel Corporation announced [new platforms and products for mobile devices](#), offering a comprehensive portfolio of products that supports the full spectrum of mobile devices across form factors and price points. Products introduced at the show include the Intel® Atom™ x3 processor for entry and value smartphones, phablets and tablets; Intel® Atom™ x5 and x7 processors for mainstream and premium tablets and 2 in 1s; the third-generation Intel® XMM™ 7360 LTE modem; and three new wireless connectivity products for mobile devices: the Intel® Wireless-AC 8x70, Intel® Wireless-GNSS 2x00 and Intel® Wireless-NFC 4000.

Intel Atom x3 Processor

The Intel Atom x3 processor (previously code-named “SoFIA”) is Intel's first system-on-a-chip (SoC) for entry and value smartphones, phablets and tablets, combining a 64-bit multi-core Intel Atom processor with 3G or 4G LTE connectivity, an image sensor processor (ISP), graphics, and audio and power management components. This full-featured integration will help device manufacturers bring new mobile products to market faster and more cost-effectively for the rapidly growing entry and value market segments.

The Intel Atom x3 processor family includes:

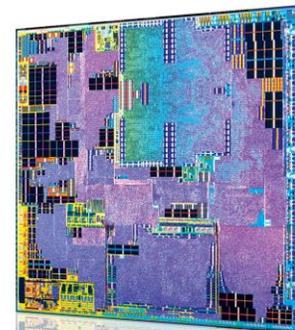
- Intel® Atom™ x3-C3130, a dual-core platform with an Intel Atom processor integrated with a 3G modem
- Intel® Atom™ x3-C3230RK, a quad-core platform with an Intel Atom processor integrated with a 3G modem, manufactured by Intel's development partner, Rockchip*
- Intel® Atom™ x3-C3440, a quad-core platform with an Intel Atom processor integrated with an LTE modem

Key benefits of the Intel Atom x3 processor include:

SoC integration for great mobile experiences. The Intel Atom x3 processor includes a quad-core or dual-core Intel® architecture processor at up to 1.4 GHz¹ burst mode, clear graphics and video, high-quality audio, and dual cameras, including an up to a 5-megapixel front camera and a 13-megapixel rear-facing camera.

People will be able to enjoy responsive apps, fast Web browsing, engaging photo sharing and social media experiences. High integration allows manufacturers to deliver the full-featured smartphones, phablets and tablets at affordable price points.

Fast 4G LTE communications. The Intel Atom x3-C3440 processor combines the fast download speeds of LTE technology with worldwide roaming enabled by the integrated Intel modem. The modem supports 14 LTE bands in a single SKU, providing single-chip carrier aggregation up to 40 MHz, CAT 6 speeds, and LTE TDD and FDD modes.





News Fact Sheet

Impressive graphics and audio. Consumers can experience the fun of graphics-intensive games with Intel Atom x3-C3440 processor's support for up to OpenGL ES 3.0 and enjoy clear graphics with its fast response times.

The platform also provides quality audio in any environment, with noise reduction (single and dual-microphone, traffic, wind, and ambient noise), echo cancellation, dynamic range processing and ambient noise adaptation.

Value-added capabilities and flexible connectivity. A full range of connectivity capabilities including Wi-Fi, Bluetooth and global navigation satellite system (GNSS) will keep people well-connected. Dual SIM capability enables two cellular subscriptions from different carriers, allowing consumers to optimize their devices for lowest roaming and time-of-day usage and enjoy family sharing with privacy. The built-in FM radio lets people listen to audio broadcasts without incurring subscription service charges for music or other content.

Device availability. Original equipment manufacturers (OEM) ASUS*, Jolla* and original design manufacturers (ODMs) including Bluebank*, BYD*, Compal*, ECS*, Emdoor*, Foxconn*, Hamploo*, iNet*, Malata*, Pegatron*, Quanta*, Techvision*, Tsinghua Tongfang*, Waterworld*, Weibu*, Wistron* and YiFang* have committed to deliver devices powered by the Intel Atom x3 processor series later this year.

Intel Atom x5 and x7 Processors

The Intel Atom x5 and x7 processors (previously code-named "Cherry Trail") bring improved graphics with great performance, long battery life and new experiences for Windows* and Android* tablets. When paired with the Intel® XMM™ 726x modem, the platform delivers world-class mobile connectivity and performance up to Category 6 LTE-Advanced speeds and carrier aggregation.

Key benefits of the Intel Atom x5 and x7 processors include:

Amazing graphics with great performance and battery life. The new SoC offers 64-bit computing, up to two times 3D graphics improvement generation-over-generation² with Intel® Generation 8 graphics, great performance and long battery life.

New experiences. The Intel Atom x5 and x7 processors enable more natural and interactive user experiences in tablets with [Intel® RealSense™ technology](#), minimize the use of wires with Pro WiDi and remove the hassle of multiple passwords with [True Key™](#) by Intel Security.

The Intel Atom x5 and x7 processors support both Intel RealSense snapshot (R100) and Intel RealSense 3D camera (R200). Intel RealSense snapshot (R100), available now, enables depth-sensing photo capabilities by allowing users to change focus, take measurements and add dynamic effects and motion with the touch of a finger. The Intel RealSense 3D camera (R200), available in second half of 2015 in tablets, allows consumers to capture the world in 3D including objects, people and environments. It offers enhanced photography with instant dimensions, 3D video capture, background subtraction and advanced image edits.



News Fact Sheet

The platform also enables tablets to wirelessly display content to a big screen or projector. When paired with Intel's Wi-Fi solutions and the Windows OS, the platform has the option to support Pro WiDi for the enterprise.

With True Key, the user is the password. Consumers can download the app across their devices and instantly log in to apps and websites using things that are unique to the users: such as facial features, the devices they own or a fingerprint. True Key is currently available through a limited release and will be generally available later this year.

Innovating responsibly: Conflict-free. The Atom x5 and x7 processors are also “conflict-free³,” meaning that these products do not contain conflict minerals (tin, tantalum, tungsten and/or gold) that are inadvertently funding human rights violations in the Democratic Republic of the Congo.

Device availability. OEMs including Acer*, ASUS, Dell*, HP*, Lenovo* and Toshiba* are expected to introduce tablets based on the Intel Atom x5 and x7 processors in the first half of this year.

Intel XMM 7360 LTE Modem

[Intel XMM 7360](#) is Intel's third-generation LTE modem designed for performance and worldwide LTE coverage that supports LTE Advanced up to Category 10 and download speeds up to 450 Mbps. Its compact size and power efficiency enables Intel XMM 7360 to accommodate a wide range of form factors, from smartphones and phablets to tablets and PCs. The new product expands Intel's portfolio of LTE solutions, giving device manufacturers a competitive option to quickly design and launch LTE devices in various market segments and geographies.

Intel XMM 7360 supports 3x carrier aggregation up to 60 MHz combined bandwidth for high-speed data services. The combination of Intel's high-performance SMARTi™ 5 transceiver design and advanced interference mitigation techniques enhance data connectivity, signal quality and performance for a fast and excellent mobile experience. The product also includes envelope tracking and other power optimization features to help save battery life.

Intel XMM 7360 is expected to ship in devices in the second half of 2015.

Intel Wireless Connectivity Products

Intel has extended its Intel® Wireless portfolio with the addition of three new products for mobile platforms: Intel Wireless-AC 8x70, Intel Wireless-GNSS 2x00 and Intel Wireless-NFC 4000. The new mobile connectivity technologies support a range of smartphones, phablets and tablets across various market segments. These wireless products will enable manufacturers to reduce time to market and differentiate product designs with a custom suite of wireless capabilities.

Intel Wireless-AC 8x70. Intel Wireless-AC 8x70 is the industry's first 28nm multi-radio solution. Its compact design and power efficiency help preserve battery life while delivering performance data rates for demanding applications such as video streaming and real-time gaming. It offers reliable wireless performance and is a fully integrated platform for faster time to market. Intel Wireless-AC 8x70 will be available in two SKUs: WCS8270 for performance devices and WCS8170 for entry and value devices.

Intel Wireless-GNSS 2x00. Intel Wireless-GNSS 2x00 location solutions provide global location coverage and enable continuous indoor and outdoor location services for social networking, mobile advertising and other location-based applications. Based on Intel's market-proven GNSS core, the products contain an on-chip navigation engine for power-efficient foreground location applications,



News Fact Sheet

such as driving directions, and background applications, including fitness location tracking and geofencing. Available in two versions, WCS2100 offers full-featured location capabilities for performance devices, while WCS2000 enables location tracking for entry and value designs.

Intel Wireless-NFC 4000. Intel Wireless-NFC 4000 (WCS4000) is Intel's first commercial near field communications controller that enables performance devices to support the next generation of NFC applications, such as mobile point of sale, payment and transit card emulation, tag reading/writing, and device pairing. Its compact size supports small form factor devices, and it is designed for ultra-low power target detection.

CONTACTS: Agnes Kwan

+1 408 398 2573

agnes.ck.kwan@intel.com

Stephanie Matthew

+1 408 218 3636

stephanie.l.matthew@intel.com

¹Intel® Atom™ x3-C3440 processor max sustained clock frequency is 1.2 GHz for all four cores. Burst Mode enables up to a max clock frequency of 1.4 GHz for relatively short peak loads for max 2 CPU cores simultaneously within specific temperature ranges. Availability and frequency of Burst Mode varies depending on, but not limited to, type of workload, hardware, software, number of active cores, power consumption, processor temperature, and system configuration as determined by your device OEM. For details on specific implementations depending on device configuration, please refer to your device manufacturers specifications.

²System Configuration: Intel Reference Platform: Intel max sustained clock frequency is 1.2 GHz R3-1600, eMMC, Windows* 8.1 64bit, Display: 8y: 8sustained clock frequency is 1.2 G and HP* ElitePad 1000 G2 based on Intelon IntelIntel8sustained clock frequency is 1.2eMMC, Windows 8.1 64bit, Display: 10.18sustained clock frequency. Measured using GFXBench* 2.7, previously known as GLBenchmark* and DXBenchmark*, is a benchmark from Kishonti Informatics* that measures OpenGL* ES 2.0 and DX* 9 gaming performance. There are two major graphics tests: GFXBench 2.7 T-Rex HD (not compatible with GLBenchmark* 2.5.1) and GFXBench 2.5 Egypt HD. Reported metrics: Frames per second. Scaling efficiencies: Graphics tests are GPU dominant, sensitive to graphics and CPU frequency, core count and memory. OS support: Android, iOS* and Windows. Note: Replaced by GFXBench 3.0. Software and workloads used in performance tests may have been optimized for performance only on Intel microprocessors. Performance tests, such as SYSmark and MobileMark, are measured using specific computer systems, components, software, operations and functions. Any change to any of those factors may cause the results to vary. You should consult other information and performance tests to assist you in fully evaluating your contemplated purchases, including the performance of that product when combined with other products. For more information go to <http://www.intel.com/performance>, System configurations in backup.

³"Conflict free" and "conflict-free" means "DRC conflict free," which is defined by the U.S. Securities and Exchange Commission rules to mean products that do 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. Intel also uses the term "conflict-free" in a broader sense to refer to suppliers, supply chains, smelters and refiners whose sources of conflict minerals do not finance conflict in the DRC or adjoining countries. Intel processors manufactured before Jan. 1, 2013 are not confirmed conflict free. The conflict-free designation refers only to product manufactured after that date. For Intel Boxed Processors, the conflict-free designation refers to the processor only, not to any additional included accessories, such as heatsinks/coolers.

Copyright © 2015 Intel Corporation. All rights reserved.

Intel, the Intel logo, Intel Atom, Intel RealSense, SMARTi, True Key and XMM are trademarks of Intel Corporation in the U.S. and/or other countries. Microsoft and Windows are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.

Bluetooth is a trademark owned by its proprietor and used by Intel Corporation under license.

*Other names and brands may be claimed as the property of others.