



# News Fact Sheet

## Intel Introduces Wireless Connectivity Products for Mobile Devices

March 2, 2015 — Intel Corporation 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 accommodate a range of tablet, phablet and smartphone form factors across various market segments. The new Intel Wireless connectivity products are pre-integrated with Intel® XMM™ 726x and Intel® XMM™ 7360 LTE modems and are pre-integrated with the Intel® Atom™ x3-C3344 processor (formerly code-named “SoFIA LTE”), enabling manufacturers to differentiate their product designs with a custom suite of wireless capabilities and bring devices to market quickly. They will also be offered in combination with future Intel Atom processors, and as discrete solutions.

### 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. Designed especially for mobile devices, the product combines WLAN 802.11ac 2x2 MIMO (1x1 option available) with Bluetooth 4.1 Smart Ready and optional FM radio for better connectivity. Intel Wireless-AC 8x70 will be available in two SKUs: WCS8270 for performance devices and WCS8170 for entry and value devices.

### Key features include:

- **World-class wireless performance**
  - Download speeds of 700 Mbps (802.11ac, 2x2, dual band, 80 MHz)
  - Exceptional power efficiency
  - Low-power Bluetooth (BLE) to provide connectivity for wearables, sensors and Internet of Things devices
  - Supports Miracast™\* and processor-based Intel® Wireless Display (WiDi)
  - Wi-Fi indoor location support with time of flight (ToF) for enhanced accuracy
- **Fully integrated platform for fast time to market**
  - Pre-integrated with Intel XMM 726x and Intel XMM 7360 modems
  - Built-in Wi-Fi/Bluetooth and LTE Advanced radio coexistence features
  - LTE/Wi-Fi antenna sharing (2x2 configuration)
  - Android\* and Windows\* support
- **Small footprint for cost and power efficiencies**
  - 28nm process node
  - Small board area and component count for reduced bill of material cost
  - High-performance, fully integrated dual band front end





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

### **Key features include:**

- **Worldwide coverage**
  - Support for major global satellite navigation systems: GPS, GLONASS, Beidou, Galileo
  - Support for regional satellite augmentation systems: QZSS, WAAS, EGNOS
- **Advanced indoor/outdoor location capabilities**
  - Integration with Intel Atom processor-based Wi-Fi location engine for continuous indoor/outdoor positioning
  - Offloaded background geofencing for power efficiency
  - Pre-certified assisted GPS capability with Intel XMM 726x and Intel XMM 7360 modems

## **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 payment and transit card emulation, tag reading/writing, and easy device pairing. Its compact size supports small form factor devices, and it is designed for ultra-low power target detection.

### **Key features include:**

- Peer-to-peer mode for connecting close proximity devices
- Streamlined tap and pay for simple, secure transactions
- Ultra-low power target detection for battery savings
- High-sensitivity receiver for faster pairing

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