

Intel Unveils the Intel® XMM™ 7560 Modem – Enabling the Next Generation of LTE Advanced Devices

Bringing Blazing-Fast Gigabit Speeds to Global Customers with a Single, Powerful SKU

Feb. 21, 2017 — Cellular connectivity has expanded our world – breaking down barriers in how we communicate with the people we care about, the ways we collaborate and work, and how we enjoy and pay for content and services. Today, with the announcement of the Intel® XMM™ 7560 modem, Intel is introducing an LTE modem as global as the population and economy it serves. Our fifth-generation LTE modem, the Intel XMM 7560 modem builds on a tradition of fast speeds, low latency and radio innovation – delivering gigabit speeds in a single, global SKU.

Delivering advanced voice and data connectivity, the Intel XMM 7560 modem is the first LTE modem to be manufactured on Intel's 14nm process. The modem supports LTE Advanced Pro for downlink up to Category 16 with speeds exceeding 1 Gbps, and Category 13 for uplink with speeds of up to 225 Mbps. The modem's architecture has been optimized to enable link level integration of LTE and Wi-Fi with enhanced power improvements and in-device coexistence capabilities.

The Intel XMM 7560 modem supports 5x carrier aggregation for downlink up to 100 MHz combined bandwidth, and 3x for uplink up to 60 MHz for high-speed data services. With the additional support of 4x4 MIMO and 256QAM, it's not just fast, it's agile – opening new opportunities to deliver gigabit data rates to customers, while simultaneously creating network efficiencies.

Beyond speed and flexibility, the Intel XMM 7560 modem offers scalability. Intel's advanced Intel® SMARTi™ 7 transceiver supports up to 35 LTE bands, enabling customers to build mobile devices with global coverage leveraging a single SKU. The Intel SMARTi 7 RF transceiver and the Intel XMM 7560 platform are capable of supporting up to 230 carrier aggregation combinations. The Intel SMARTi 7 transceiver's design and advanced interference mitigation techniques delivers significant data connectivity, signal quality and performance for a better mobile experience.

Size and power efficiency are also key benefits of the Intel XMM 7560 modem, which offers envelope tracking and other power optimization features to help extend battery life within 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 multiple market segments and regions worldwide. The Intel XMM 7560 modem is a strong addition to Intel's broad portfolio of connectivity solutions in 4G, NB-IoT, Wi-Fi, WiGig and 5G – offering an end-to-end communications roadmap for the industry as it moves to 5G.

Product Features

- Supports 3GPP Rel-13
- MIMO support – downlink: 2x2, 4x2, 8x2, 4x4, 8x4

- LAA – LTE/Wi-Fi link aggregation
- Network Assisted Interference Cancellation and Suppression (NAICS) support
- Carrier aggregation support across TDD and FDD spectrum
- Supports downlink aggregation of four non-contiguous bands up to 100 MHz
- Multi-SIM support including LTE/LTE combinations

Global Mobility

- Six-mode operation, including LTE-FDD, LTE-TDD, TD-SCDMA, GSM/EDGE, UMTS/WCDMA and CDMA/EVDO for markets worldwide
- Integrated GNSS in SMARTi7 RF transceiver supporting GPS, Galileo, GLONASS and BeiDou positioning systems
- Intel SMARTi 7 transceiver-based scalable RF solution with support for up to 35 LTE bands for global coverage and roaming
- All major carrier aggregation combinations fully supported
- Flexible RF architecture to customize devices to operators' unique geographic requirements

Availability

The Intel XMM 7560 modem is expected to sample in the first half of this year and move into production soon afterward.

Visit www.intel.com/modems for Intel's entire portfolio of mobile connectivity solutions.

Intel technologies' features and benefits depend on system configuration and may require enabled hardware, software or service activation. Performance varies depending on system configuration. No computer system can be absolutely secure. Check with your system manufacturer or retailer or learn more at intel.com.

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