New Freescale QorIQ Qonverge Macrocell Base Station-on-Chip Delivers Industry's Highest Performance

Multi-sector B4860 system-on-chip combines 28-nm process technology, multimode support and optimal cost/power

Barcelona, Feb. 27, 2012-- Freescale Semiconductor (NYSE: FSL) is debuting its first large cell base station-on-chip product built on the innovative QorIQ Qonverge multimode platform.
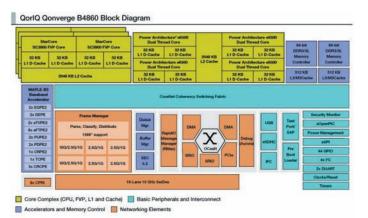
The new QorIQ Qonverge B4860 baseband processor delivers higher performance than other macrocell base station-on-chip SoCs supporting the LTE, LTE-Advanced and WCDMA standards. Offering unequaled throughput and capacity, the single-chip B4860 solution is compatible with Freescale's QorIQ Qonverge small cell products and integrates efficient, high-performance cores, application-specific accelerators and optimal power/cost ratios.

Freescale introduces the B4860 product a year after announcing its QorIQ Qonverge small cell series as the first portfolio of multi-standard products sharing the same architecture and spanning from small to large cells. The QorIQ Qonverge portfolio of software-compatible base station-on-chip products is built on a common architecture integrating Power Architecture® microprocessors, StarCore digital signal processors and wireless acceleration technologies on a single chip. The architecture is based on proven technologies deployed in base stations of all sizes and supports software reuse, helping customers extend the value of their R&D investments.

"Freescale's QorIQ Qonverge macrocell products provide the performance, energy efficiency and cost effectiveness that OEMs and service providers need to help address challenges associated with the growing tsunami of wireless data worldwide," said Tom Deitrich, senior vice president and general manager of Freescale's Networking & Multimedia Solutions Group. "The QorIQ Qonverge B4860 macrocell baseband processor allows OEMs to develop differentiated products that help service providers ramp LTE, begin to deploy LTE-Advanced and address the stringent cost requirements of WCDMA base station processing."

Ref. Nº GSM204

QorIQ Qonverge B4860 Block Diagram