

STMicroelectronics Unveils its Next-Generation Integrated Bluetooth® and FM-Radio Transceiver System on Chip

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STMicroelectronics Unveils its Next-Generation Integrated Bluetooth® and FM-Radio Transceiver System on Chip in 65nm Process Technology

ST's STLC2690 single-chip Bluetooth v2.1+EDR with fully integrated FM RDS radio receiver and short-range FM RDS transmitter enables new generation of media-rich mobile phones, smart phones and other battery-driven portable devices

New Delhi, 12th February 2008 – STMicroelectronics (NYSE:STM), a leader in wireless connectivity solutions for mobile and consumer markets, today introduced its 4th-generation Bluetooth®/FM Radio combo solution, which meets the demanding integration and cost requirements of the cellular phone market. By combining Bluetooth wireless personal-area-network functionality with an FM radio transceiver in a single 65nm chip, the STLC2690 offers leading-edge integration and performance.

This combination of features and functionality saves space and costs for manufacturers of portable products, while delivering to consumers stereo FM R(B)DS reception (RX) direct to their Bluetooth headsets. The fully integrated short range FM R(B)DS transmitter (TX) allows users to enjoy stored music content on any in-car or home FM radio tuner and delivers increased versatility to the mobile device.

This new chip from ST is manufactured in ST's advanced low-leakage ultra-low-power 65nm RFCMOS technology, and reinforces ST's position of being able to offer the lowest power consumption in the Bluetooth world.

“This state-of-the-art addition to our portfolio builds upon the highly successful and market proven Bluetooth/FM products already chosen by many leading handset makers. We are proud that it demonstrates ST's continuing leadership and commitment to providing world-class connectivity devices,” said Leon Cloetens, Vice President and General Manager of ST's Connectivity Division. “STLC2690 is just the first of a wider family of 65nm connectivity solutions that will become available during 2008 and beyond.”

The STLC2690 is compliant with BT v2.1+EDR and further increases the field-proven class-1.5 Bluetooth output power, requiring only one supply voltage and without any calibration in production. The Bluetooth link stability is dramatically increased by also further improving the Bluetooth receiver sensitivity, while reducing the best-in-class current consumption by up to 35% compared to former generation products in 130nm technology.

The integrated FM receiver sets a new world standard for receiver sensitivity and with real-time programmable filters for optimum search and sensitivity stability, the STLC2690 can also be used with integrated FM antennas. The device supports all deployed R(B)DS services and all worldwide FM bands (65 to 108MHz).

The short-range FM transmitter is specifically designed for use in mobile phones that also take advantage of the presence of a FM receiver. Proprietary SureTune™ technology automatically selects the optimal FM transmit frequency, while the programmable high output power allows stable operation even when using integrated antennas with poor efficiency. The STLC2690 delivers a stable and user-friendly FM transmission implementation with real enhancement of the user experience in mobile applications.

The new STLC2690 comes in a Wafer Level Chip Scale Package (WLCSP) with a 0.4mm pitch. Its ultra-low external BOM count allows a PCB footprint as small as 36mm². The pin-out arrangement of the STLC2690 is also suitable for use on low-cost PCB assemblies. STLC2690 samples are already being evaluated by several leading handset manufacturers and volume mass production is scheduled for the second half of 2008.

Further information on ST's Bluetooth and FM devices and its complete Bluetooth portfolio at www.st.com/bluetooth.

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About STMicroelectronics

STMicroelectronics is a global leader in developing and delivering semiconductor solutions across the spectrum of microelectronics applications. An unrivalled combination of silicon and system expertise, manufacturing strength, Intellectual Property (IP) portfolio and strategic partners positions the Company at the forefront of System-on-Chip (SoC) technology and its products play a key role in enabling today's convergence markets. The Company's shares are traded on the New York Stock Exchange, on Euronext Paris and on the Milan Stock Exchange. In 2007, the Company's net revenues were \$10.0 billion. Further information on ST can be found at www.st.com.

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