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TurboConcept's decoder technology incorporated in Sequans' WiMAX chips

TurboConcept announced that Sequans Communications is using TurboConcept's Convolutional Turbo Decoder technology, TC1000WiMAX, in its fixed and mobile WiMAX semiconductor solutions based on the IEEE 802.16 standards. The use of turbo codes allows significant link budget gain over legacy forward error correction codes. Sequans' products exploit the full benefits of TurboConcept's advanced decoder solution.

"TurboConcept's TC1000WiMAX core gives us the best error correction performance possible from the turbo code and the best complexity vs. performance implementation results," said Bertrand Debray, Sequans VP of engineering. "The integration of the core within our PHY layer hardware proved to be very smooth and effective. The core is now used in all our WiMAX semiconductor solutions for both fixed and mobile profiles and field measurements confirm excellent performance."

"Sequans is a key player in the WiMAX semiconductor business, with industry leading base station and subscriber station solutions for both fixed and mobile WiMAX profiles. We are pleased to contribute to this success", said Nathalie Brengarth, co-founder & CEO, TurboConcept.

TC1000WiMAX Core is a turbo encoder/decoder technology giving the best performance available from the turbo code specified in WiMAX fixed and mobile profiles. The Core can be configured to support the complete set of functionalities (block size, modulations) or a reduced set in a low complexity version. The Core fits in a low complexity budget and has built-in power consumption reduction features. Three different throughput levels can be selected before Core synthesis to adapt to the system needs.

The Core is available on mainstream FPGA platforms and ASIC processes.

About TurboConcept:

TurboConcept is a leading provider of Intellectual Property Cores for advanced FEC (Forward Error Correction) techniques – Turbo and LDPC codes.

TurboConcept has a large catalogue of Convolutional and Product Turbo Codes and LDPC solutions for satellite and wireless communications markets. Specific standards covered by our Cores are: DVB-RCS, DVB-S2, WiMAX, HomePlug, CCSDS. We offer to our customers the best throughput vs. complexity trade-offs in hardware-proven, mature Cores.

Our solutions are optimized for mainstream FPGA devices and ASIC technologies.

For more information please visit www.turboconcept.com

About Sequans

SEQUANS Communications is a leading supplier of fixed and mobile WiMAX silicon and software based on 802.16 standards. Offering both base station and subscriber station system-on-chips (SoCs) for both fixed and mobile WiMAX (802.16-2004 and 802.16e-2005), Sequans offers equipment manufacturers an all-in-one solution with full MAC and PHY functionality, enabling them to build a complete range of WiMAX network components: high-end macro and pico base stations, outdoor and indoor subscriber terminals, home gateways, and all types of mobile devices. Sequans, along with its RF partners, provides the most complete WiMAX solution available to system manufacturers today. Sequans is based in Paris, France, with offices in the USA, Israel and Singapore. Please visit www.sequans.com.