



## **Wavesat selects TurboConcept as strategic turbo FEC Cores supplier for 4G products**

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TurboConcept's new WiMAX/LTE dual-mode turbo decoder has been selected by Wavesat to empower its agile 4G multi-mode solutions. The two companies hereby consolidate a partnership that originated in the WiMAX market two years ago. The Core will allow Wavesat to optimize silicon area and power consumption on the FEC decoding function, an important part of the physical layer processing.

“Wavesat is extremely efficient in turning innovations and advanced features into real benefits for its customers. We are very proud that Wavesat has selected our new multi-mode 4G turbo decoder technology and are convinced it will help Wavesat consolidating their leadership in broadband wireless solutions”, said Jacky Tusch, co-founder & CTO, TurboConcept.

“Wavesat and TurboConcept have already a record of successful collaboration in the WiMAX area. Today, Wavesat is consolidating a strategic partnership with TurboConcept by adopting its dual mode WiMAX/LTE Core. We are especially pleased with the level of performance, reliability and quality of the core as well as the ASIC integration support provided by TurboConcept.” said Victor Menasce, VP, Engineering, Wavesat.

The 4G dual-mode turbo decoder Core TC1700 implements both WiMAX (IEEE802.16d/e) and 3GPP-LTE (3GPP Release 8) convolutional turbo code specifications. It is an ideal solution for Base station or CPE receivers implementing both physical layers. The Core uses a unique architecture that reduces by 40 % the silicon area, when compared to two single-mode Cores, with no restrictions on the flexibility and features set.

Two throughput profiles are available, that cover respectively 100 or 200 Mbits/s decoded bit-rate. The Core includes the sub-block de-interleaving and CRC decoding functions, and allows switching between LTE and WiMAX mode dynamically, for each FEC block.

### **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 portfolio of Cores covering Convolutional Turbo Codes, Turbo Product Codes and LDPC codes, addressing open specifications (e.g. 3GPP-LTE, DVB-S2, WiMAX, HomePlug, CCSDS, DVB-RCS) or optimized proprietary schemes.

The Cores are delivered as RTL source code (Verilog or VHDL languages) for ASIC implementation, and as synthesized netlists for Altera, Xilinx and Lattice FPGA devices.

For more information: [www.turboconcept.com](http://www.turboconcept.com)

## **About Wavesat**

Wavesat is a global leader in mobile broadband, providing advanced semiconductor solutions to the world's leading carrier and mobile device manufacturers to deploy future-proof broadband services and products. With award winning technology, Wavesat delivers silicon that enables customers to deploy multiple Broadband Wireless technologies such as WiMAX Wave2 and XG-PHS today and to migrate seamlessly to future 4G technologies such as LTE. Wavesat was awarded the 2008 Frost and Sullivan Mobile Broadband Wireless Access Excellence in Technology Award and was recognized as one of Canada's Top Ten Technology companies for 2009. Wavesat is a principal member of the WiMAX Forum®. For more information, please visit [www.wavesat.com](http://www.wavesat.com).

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