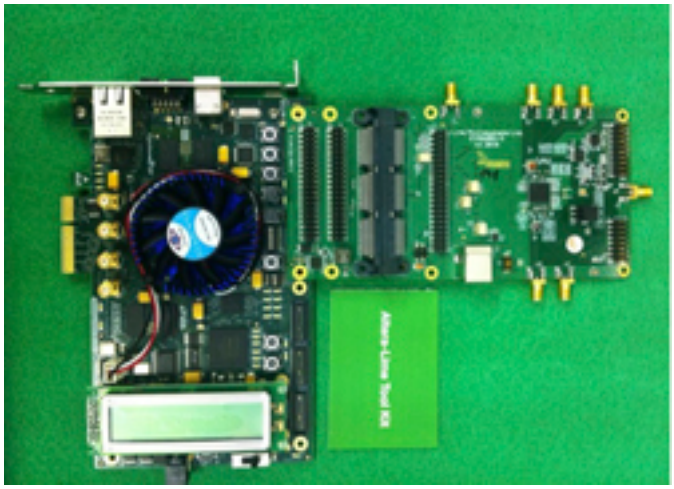
Wireless Communications Toolkit Enables Wireless Protocol Creation for Almost Every App



Lime Microsystems has announced a Universal Wireless Communications Toolkit that allows developers to create wireless protocols of almost any complexity with ease. The Toolkit comprises the company's configurable transceiver board linked to an Altera FPGA design kit via a purpose-built high speed mezzanine connection (HSMC) interface board. The combination of Lime and Altera boards enables almost any wireless application to be easily created, from consumer and enterprise broadband equipment through to bespoke white space, military and GNU Radio applications. Communication system designs can be quickly implement in Altera's portfolio of 28-nm FPGAs, which are tailored to meet a variety of system requirements. Altera's 28-nm FPGAs include its Stratix V FPGAs, targeting high-performance systems; Arria V FPGAs, targeting mid-range applications that require a mix of low power and high performance; and Cyclone V FPGAs, targeting low-power, cost-sensitive applications. Lime's LMS6002D is a fully integrated multi-band, multi-standard single-chip RF transceiver for 3GPP (WCDMA/HSPA and LTE), 3GPP2 (CDMA2000) and WiMAX applications. It can be digitally configured to operate in 16 user-selectable bandwidths up to 28 MHz. In addition to small cell base stations, Lime's customers are using the IC to create machine to machine (M2M), GNU radio and white space radio applications. The Lime HSMC interface and transceiver boards are available via Lime Microsystems with FPGA design kits available from Altera.

Lime Microsystems
44 (0)1483 685 063, www.limemicro.com [1]

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