



Press Release

Infineon to Demonstrate Gigabit Backhaul System for 3G/4G LTE together with Partners at European Microwave Week

Neubiberg, Germany – October 7, 2014 – Infineon Technologies presents a full system design for the wireless connection of base stations to the corresponding base station controller of a mobile communications network (Wireless Backhaul) at the European Microwave Week in Rome, Italy. Based on [Infineon's E-/V-band transceiver family](#) and Escape Communications' FPGA (Field Programmable Gate Array) it allows for continuous upgrades in the field, giving network operators maximum flexibility and competitiveness.

The solution was created in a joint effort of four companies: The RF front-end has been developed by Infineon's system design house partner GreenWaves featuring Infineon's BGT70 and BGT80 E-band transceivers. Escape Communications has integrated this RF front-end – which features an additional Power Amplifier for transmission ranges of several kilometers – successfully with their Altera FPGA-based 250 MHz modem module.

Philipp von Schierstaedt, Vice President and General Manager of the Business Line Radio Frequency and Sensors at Infineon Technologies, said: "Millimeter-Wave-Backhaul is the key technology to quickly develop a cost efficient communication infrastructure for Gigabit data rates. Our strategic path from product thinking to system understanding leads to success: Together with GreenWaves, Escape and Altera we have leveraged system expertise to offer a compact and flexible solution for this highly attractive market."

Michael Stewart, CEO and founder of Escape Communications, added: "We are providing mobile equipment makers with a baseband solution offering a complete field-proven software stack, market-leading modem features, performance, and carrying capacities at the lowest total cost of ownership. Our solution has ASSP-

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like power consumption, but unlike ASSPs, our solution is field-upgradable so our customers can continue to innovate and compete on features, not just price.”

The BGTx0 transceivers from Infineon replace more than ten discrete devices as they integrate all of the RF building blocks in a compact, plastic eWLB package: I/Q modulator, Voltage Controlled Oscillator (VCO), Power Amplifier (PA), Low Noise Amplifier (LNA), Programmable Gain Amplifier (PGA), SPI control interface and more.

Infineon will be demonstrating the integrated solution at European Microwave Week in Rome (October 7 – 9, 2014) in Booth 152.

Availability

Evaluation platforms are available to qualified customers.

About GreenWaves

GreenWaves Srl, Gorgonzola, Italy, offers engineering services and system solutions addressing in particular: RF modules and subsystems design for telecom wireless applications, theoretical studies for LOS and nLOS communications, professional testing and system validation for telecom equipment. The Company is a High tech Start Up composed of 12 telecom engineers and founded in September 2013. GreenWaves has established an important Partnership with Infineon Technologies AG focused on mmWave and RF Power applications. Recently the Company has been awarded with a significant financial funding by Regione Lombardia Council as one of the best innovative Start Ups.

About Escape

Escape Communications has extensive technical experience in developing microwave backhaul solutions that feature intellectual property (IP) modem cores for high-bandwidth, high-order quadrature amplitude modulation (QAM) operations and a complete field-proven embedded software stack including drivers, functional libraries, and operator applications like web-GUI and SNMP as well as extensive diagnostic tools.

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About Altera

Altera is a leading provider of FPGA silicon and IP solutions to the communications marketplace.

About Infineon

[Infineon](#) Technologies AG, Neubiberg, Germany, offers semiconductor and system solutions addressing three central challenges to modern society: [energy efficiency](#), [mobility](#), and [security](#). In the 2013 fiscal year (ending September 30), the company reported sales of Euro 3.84 billion with close to 26,700 employees worldwide. Infineon is listed on the Frankfurt Stock Exchange (ticker symbol: IFX) and in the USA on the over-the-counter market OTCQX International Premier (ticker symbol: IFNNY).

Further information is available at www.infineon.com

This news release is available online at www.infineon.com/press

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