

Simply Test Setups and Reduce Cost



Rohde & Schwarz announces an "all-in-one" solution for WiMAX mobile station and customer premise equipment testing in compliance with the 802.16e-2005 standard and the WiMAX Forum Mobile System Profiles. The R&S CMW270 functions in either non-signaling or signaling mode and is optimized for high speed production, service and quality assurance testing.

The R&S CMW270 combines production test capabilities including signal generation, signal analysis and measurements for transmit and receive in a single instrument thereby simplifying set-ups while adapting to different test strategies. The unit provides real-time WiMAX communication along with physical layer and MAC layer observation. The CMW270 is designed to seamlessly integrate base station emulation for signaling mode measurements at minimal additional cost, which the company will make available for the R&S CMW270 at a later date. In signaling mode, the unit will be able to evaluate the behavior of a component or subsystem under actual WiMAX operating conditions, eliminating the need for a WiMAX base station as a reference. It also includes a general-purpose RF signal generator and RF power meter.

In non-signaling mode, the unit enables calibration of mobile WiMAX transmitters and receivers and measures receive characteristics. It has comprehensive measurement functions for verification including RF power, EVM, ACPR, spectrum mask, center frequency error, I/Q constellation, crest factor and spectrum flatness. According to the company, the measurement speed of the R&S CMW270 is up to ten times faster than that of existing test solutions, which significantly increases throughput in the production of WiMAX chipsets and mobile stations.

Since the company worked with chipset manufacturers at an early stage, the CMW270 is already adapted to market-leading WiMAX chipsets reducing the adaptation effort in mobile station production. Additional benefits include the low purchase price, the flexible upgrades and selftest functionality. The WiMAX tester is ready for future expansions of the WiMAX standard. It covers the frequency range from 100 MHz to 6 GHz and supports all RF profiles defined by the WiMAX Forum. The R&S CMW270 tester for non-signaling mobile WiMAX measurements was recently introduced at the WiMAX World show held in Chicago. It is available now

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from Rohde & Schwarz.

For additional information contact Rohde & Schwarz at www.rohde-schwarz.com;
(410) 910-7800.

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