

Fast instrument tests 3G mobiles

■ Productronica 2001, Munich — Radio Communication Tester CMU200 from Rohde & Schwarz now features full 3G capability. With its extensive functionality for the UMTS standard WCDMA, the set allows all the tests needed in the development and production of terminals for the third mobile-radio generation. An option allows a WCDMA downlink signal to be generated for synchronization of the mobile phone under test. This makes bit error rate measurements possible. The platform concept of CMU200 lets it set up for various standards like GSM, AMPS, TDMA, CDMA (TIA/EIA-95), Bluetooth as well as WCDMA. Enhanced measurement times and optimized sequences are a special bonus in production, meaning that more terminals come off the line faster.

Introduction of the third mobile-radio generation marks the advent of multimedia applications like video telephony and data transmission in mobile communication. The high startup investment in UMTS licenses is now being followed by creation of the necessary infrastructure, development of the varied applications and production of terminals. To handle all the tests involved here, Rohde & Schwarz has put 3G capability onboard its multistandard platform CMU200. The tester performs transmitter measurements on terminals for the UMTS standard WCDMA (3GPP/FDD).

CMU200 is a multistandard platform, meaning that extra mobile-radio standards can easily be installed or added parallel to WCDMA. In other words, one and the same production line can handle sets working to different standards. CMU200 is optimized to meet advanced requirements in terms of measurement accuracy, speed and ease of operation. Innovative, temperature-controlled error correction increases absolute accuracy, thus enhancing repeatability, of vital importance in production. Plus, extremely fast measurement times make for a substantial increase in throughput. State-of-the-art digital signal processors and parallel measurements reduce time to test by whole factors.

CMU200 for WCDMA is available now from Rohde & Schwarz.

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Rohde & Schwarz

The Rohde & Schwarz group of companies with headquarters in Munich develops, produces and markets communications and T&M instruments and systems with the emphasis on mobile radio, broadcasting, EMC measurements, general-purpose and RF test equipment, radiomonitoring and radiolocation, radiocommunications as well as communication security. Rohde & Schwarz has subsidiaries and representatives in over 70 countries. The group with its 5.000 employees achieves an annual turnover in excess of 800 million Euro worldwide.

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