

New American mobile radio standard implemented on protocol and RF test platforms

■ Productronica 2001, Munich —. Rohde & Schwarz has implemented the American GSM 850 mobile radio standard on its Universal Protocol Tester CRTU-G and the associated RF Test System TS8950G. This makes Rohde & Schwarz the first company in the world to provide 3GPP tests for GSM 850. Both solutions are designed for the development and conformance testing of mobile telephones and can be easily upgraded to WCDMA, thus enabling the GSM, GPRS and WCDMA standards to be tested.

The CRTU-G from Rohde & Schwarz is the first officially validated protocol test platform for GSM 850. The new mobile radio standard will be introduced in 2002 by major American operators such as AT&T. GSM 850 provides faster data services and higher capacity than the IS-136 standard, which is currently in widespread use. Moreover, GSM 850 represents an important step in the migration from the 2nd to the 3rd generation of mobile radio.

The CRTU-G and TS8950G test platforms provide all the official test cases developed by 3GPP for GSM and GPRS conformance testing. Thanks to the platforms' wide selectable frequency range from 10 MHz to 2.7 GHz, the test cases can also be implemented for GSM 850 by means of software. This provides the basis for subsequent expansion to include other frequency bands. The CRTU-G analyzes the various protocol layers through to the application layer. A programming interface enables the user to modify the 3GPP test cases and create customized test scenarios.

With the corresponding RF Test System TS8950G, Rohde & Schwarz has implemented a one-stop, all-in solution for protocol and RF testing. A graphical user interface allows easy modification of the test parameters and the development of customized test cases. Standardized interfaces and the National Instruments Lab Windows CVI programming

language ensure that the system can be easily integrated into existing automated lab solutions.

Both test platforms are designed for the development and conformance testing of mobile telephones. Automated test sequences ensure fast results and straightforward troubleshooting. Since the hardware and software are implemented by Rohde & Schwarz, the two test platforms represent a harmonized all-in solution. Service, support and updates are also provided by Rohde & Schwarz, ensuring that the systems can be upgraded to WCDMA. The multistandard test platforms are thus capable of testing the GSM, GPRS and WCDMA standards alike.

The two test platforms for GSM 850 are now available from Rohde & Schwarz.

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Rohde & Schwarz

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