

London calling: Rohde & Schwarz presents leading-edge microwave T&M solutions at EuMW 2016

Rohde & Schwarz follows the call to London to attend European Microwave Week, where the company will demonstrate its T&M highlights for demanding applications in the aerospace & defense, automotive and wireless industries. In focus: test solutions for satellite communications, for radar applications in the A&D and automotive sectors and for the next generation of mobile networks 5G.

Munich, September 15, 2016 — From October 4 to 6, 2016, Rohde & Schwarz will demonstrate its expertise in the field of test and measurement, including in the highest frequency ranges, at the European Microwave Week (EuMW) international trade fair in London. The highlights on display in hall S11, booth 3 at ExCel London will include the following T&M solutions:

Radar test solutions

The company's extensive portfolio for radar test applications covers test requirements both at the component and the system level. For characterizing active modules such as transmit/receive modules (T/R modules), Rohde & Schwarz will present a test solution consisting of its R&S ZVA network analyzer up to 67 GHz and the R&S ZVAX-TRM extension unit. The latter provides signal conditioning for demanding measurements on active components. The R&S FSWP phase noise analyzer and VCO tester offers extremely high sensitivity and measurement speed even for phase noise tests on pulsed sources.

For developers and manufacturers of radar systems, Rohde & Schwarz will present an innovative solution for radar echo simulation based on the R&S SMW200A vector signal generator. This solution can even simulate moving objects, Doppler frequencies and radar cross sections, enabling users to significantly reduce the need for expensive and cumbersome field tests.

Also on display: test solutions for generating and analyzing extremely wideband pulsed signals with the R&S SMW200A vector signal generator with suitable pulse sequencer software as well as the R&S FSW85 signal and spectrum analyzer with a bandwidth of up to 2 GHz in the frequency range up to 85 GHz. Rohde & Schwarz will also be

demonstrating how an R&S RTO2000 digital oscilloscope can be used in combination with the R&S VSE vector signal explorer software for performing desktop pulse analysis.

Satellite test solutions

For users in the satellite communications sector, Rohde & Schwarz will present its new R&S NRP(N) generation of power sensors. These sensors are especially well-suited to power measurements on directional and satellite radio components thanks to their unique combination of USB and LAN interfaces on the same sensor. This makes it possible to bridge large distances between the DUT and the user.

A satellite link test solution based on the R&S SLG satellite load generator and the R&S BTC broadcast test center will also be showcased. The R&S SLG can generate up to 32 transponder signals or a single 500 MHz bandwidth transponder, enabling the efficient testing of components, satellite systems and receivers and the simulation of live video and data links in real time.

Automotive test solutions

Users in the automotive sector will also benefit from the Rohde & Schwarz expertise in the field of radar testing. The R&S FSW85 signal and spectrum analyzer analyzes FMCW chirp signals up to 2 GHz bandwidth and covers the 24 GHz and 79 GHz frequency bands allocated to automotive radars with a single device and without any additional, external frequency converters. On display at the booth will also be the ARTS9510 automotive radar target simulator, the R&S TS7124 shielded RF test box and the R&S NRP8S power sensor, which provide an optimized measurement solution for production tests on automotive radar sensors.

5G test solutions

Researchers around the globe are seeking concepts and technologies for fifth generation (5G) wireless networks, and Rohde & Schwarz is already supporting them with its T&M solutions. The setup to be showcased at EuMW, consisting of an R&S SMW200A vector signal generator and an R&S FSW85 signal and spectrum analyzer, offers the flexibility and T&M functionality required, for example, to test waveform candidates and new frequency bands for commercial wireless communications. Using the R&S TS-5GCS channel sounding software, the two instruments can also characterize the new wireless channels in order to determine their optimal use.

Signal integrity test solutions

The R&S ZNBT20 from Rohde & Schwarz is the first true multiport network analyzer with up to 16 integrated test ports for operation up to 20 GHz. The high number of test ports makes it possible to perform signal integrity tests for transmission standards with high data rates, for example simultaneous tests on multicore wiring systems. In combination with the R&S ZNBT-K20 option for extended time domain analysis, the R&S ZNBT can display eye diagrams, rise time and skew.

Semiconductor test solutions

Rohde & Schwarz has a close partnership with MPI Corporation for high-quality on-wafer test systems. Probe stations from MPI offer outstanding mechanical stability and innovative features for prober handling. In conjunction with the R&S ZVA high-end network analyzer, highly reproducible results can be achieved.

Expertise in workshops and seminars

Once again this year, Rohde & Schwarz specialists will be communicating their expertise in a variety of technical workshops and basic seminars as part of the event program. The topics discussed at these events include for instance the challenges involved in millimeter-wave measurements, the generation of pulsed signals, phase noise, digital signal modulation, and fading and its effects. For more information about and registration for the Rohde & Schwarz workshops and seminars, visit: <http://www.eumw.rohde-schwarz.com/>

Press contacts:

Europe (headquarters): Christian Mokry, Phone: +49 89 4129 13052, E-mail: press@rohde-schwarz.com

North America: Pam Sanders, Phone: +1 410 910 7908, E-mail: pam.sanders@rsa.rohde-schwarz.com

Asia Pacific: Wen Shi Tong, Phone: +65 6 307-0029, E-mail: press.apac@rohde-schwarz.com

Contacts for readers:

Customer Support Europe, Africa, Middle East: +49 89 4129 12345
customersupport@rohde-schwarz.com

Customer Support North America: +1 888 TEST RSA (+1 888 837 87 72)
customer.support@rsa.rohde-schwarz.com

Customer Support Latin America: +1 410 910 79 88
customersupport.la@rohde-schwarz.com

Customer Support Asia Pacific: +65 65 13 04 88
customersupport.asia@rohde-schwarz.com

Customer Support China: +86 800 810 8228 or +86 400 650 5896
customersupport.china@rohde-schwarz.com

Rohde & Schwarz

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