



PRESS RELEASE

Rohde & Schwarz presents its test solutions for tomorrow's electronic systems at embedded world 2020

At the leading trade show for the embedded industry in Nuremberg, Rohde & Schwarz will highlight its T&M solutions for embedded designs in the automotive sector and high speed digital interfaces. The T&M expert will demonstrate trendsetting Bluetooth T&M solutions® and innovative solutions for power, EMC and power integrity measurements. The company is also celebrating ten years of Rohde & Schwarz oscilloscopes.

Munich, January 24, 2020 — Rohde & Schwarz is exhibiting at embedded world 2020 in the Nuremberg Trade Show Center in Hall 4, Booth 4-218 from February 25 to 27, 2020. There, visitors can experience the following topics:

T&M solutions for automotive applications

Rohde & Schwarz will be demonstrating innovative test solutions for the automotive sector, including compliance tests for 100/1000 GBit/s automotive Ethernet on a high performance oscilloscope from the **R&S RTP** family. The tests specified by the TC9 working group will be demonstrated on an **R&S ZNB** vector network analyzer using a 1000Base-T1 connection. For developers of electric vehicles, the company is presenting a compact and flexible test solution for automotive battery management systems. The **R&S NGM200 and R&S NGL200 series** integrated power supplies deliver extremely stable output voltages with very low residual ripple and minimal noise, enabling simulation of a wide variety of battery types.

Test solutions for wireless and high speed digital interfaces

In the wireless sector, the **R&S CMW** platform of testers simplify testing of Bluetooth® Low Energy (LE) devices and wearables. Rohde & Schwarz has developed a variety of Bluetooth® LE test solutions that perform RF tests over the air interface without a control cable. These unique solutions enable quick preformance tests over the air and in shielded chambers. They support the test mode for Bluetooth Classic and direct test mode (DTM) up to Rel. 5.1 for Bluetooth LE. Test solutions for various wireless interfaces and WLAN, including IEEE 802.11ac and 11ax, are also available.

The high performance oscilloscopes of the **R&S RTP** family with measurement bandwidths up to 16 GHz are ideal for signal integrity tests on high speed digital interfaces. They are the only commercially available oscilloscopes with integrated time domain reflectometry (TDR) and time domain transmissometry (TDT) measurement functions and the only oscilloscopes with real-time deembedding, which allows the high precision trigger system to directly access the corrected signal without bandwidth limitation. Rohde & Schwarz will also be presenting its new jitter decomposition option that enables considerably more detailed signal integrity analysis than previously possible with oscilloscopes. These unique functions and all other relevant measurements and protocol analyses, such as DDR4, USB 3.1 and PCIe transmissions, will be demonstrated.

EMC test solutions

For testing EMC, Rohde & Schwarz is showing an entry-level solution for measuring radiated and conducted interference. This solution is based on the **R&S FPC1000** spectrum analyzer and the user-friendly **R&S ELEKTRA EMI test software**. The software is available in several versions: with interactive test sequences for developers or as fully automatic EMC test software for device certification. The company is also presenting the **R&S FPL1000** portable spectrum analyzer with measurement functions that make it ideal for a multitude of tasks, such as EMC precompliance measurements, analyzing analog and digital signals, and scalar network analysis. When developing communications modules, for example for the IoT sector, tracking down very small and rare or sporadic interference signals is often a challenge. Rohde & Schwarz uses the **R&S RTO2000** multi-domain oscilloscope with real-time capability to demonstrate how such interference in frequency ranges up to 6 GHz can be quickly identified and the causes determined.

Power supply testing

For embedded designs, it is important that power is supplied to the individual modules at the right time and in the right sequence. The **R&S RTE** oscilloscope together with two **R&S RT-ZVC** wideband probes is the ideal solution for power sequencing measurements. Up to 20 voltages can be analyzed simultaneously with this setup.

The **R&S RTM3000** oscilloscope with 10-bit vertical resolution, 5 Gsample/s sampling rate and standard memory depth of 40 Msample per channel is the right choice for many R&D measurement tasks. It is perfect for measuring the control loop response of a power supply. The oscilloscope presents the measurement results in a practical Bode diagram, allowing developers to clearly understand and optimize the effects of modifications.

The **R&S Scope Rider RTH** CAT-IV oscilloscope is an excellent tool for servicing and

maintaining all types of electrical and electronic devices. The sturdy handheld oscilloscope features the functional range of a lab instrument and can now be used to create scripts for automatic measurement runs thanks to the new **R&S RTH-K38** option.

Power integrity measurements

The versatile **R&S ZNL** vector network analyzer is the ideal solution for power integrity measurements in frequency ranges up to 6 GHz. It enables developers to test extremely low impedances as required in circuit design. The R&S ZNL can be used for many different types of analyses when debugging PCBs. It combines a vector network analyzer, spectrum analyzer and power meter in a single box.

Tenth anniversary of oscilloscope market launch

Rohde & Schwarz is kicking off a special anniversary at embedded world 2020: the launch of its first two oscilloscope series ten years ago. Since then, Rohde & Schwarz has developed a successful and comprehensive portfolio consisting of eight oscilloscope families with frequency ranges up to 16 GHz, probe options and software applications. The oscilloscopes feature excellent signal fidelity, high acquisition rates, an innovative trigger system and a smart user interface. To celebrate this anniversary, Rohde & Schwarz will be raffling off ten of the popular R&S RTB2000 oscilloscopes throughout the year. To win one of these oscilloscopes, participants must submit the intended oscilloscope application and what makes the Rohde & Schwarz oscilloscope especially suitable for that task.

These and other highlights from the Rohde & Schwarz oscilloscope and T&M portfolios will be presented at embedded world in Nuremberg in Hall 4, Booth 4-218.

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Rohde & Schwarz

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