

SCOPEFIELD

The R&S®RTO6 measurement metropolis

Engineered to deliver reliable results the R&S®RTO6 leverages the engineer's expertise. Its rich measurement toolset helps to quickly solve circuit issues from simple to complex and it provides superior signal to insight for many applications.

Memory test

The interfaces of modern **DDR3** and **DDR4** memory devices can be measured with R&S®RTO6 oscilloscopes for straightforward troubleshooting.

Mobile network wireless signal analysis

Regular testing maximizes network quality and performance – be it for **5G** that challenges infrastructure equipment testing due to increasing **MIMO** complexity, **WLAN** or accurate verification of **UWB** devices.

Radar signal analysis

Radar signal collection and analysis is focused on operator usability and functionality supporting operators in dense signal environments.

Avionics

R&S®RTO6 enables **testing and debugging** of safety-critical technologies to ensure flawless performance of avionic systems for commercial and military flight operations.

ADAS system-level debugging

Advanced driver assistant systems (ADAS) play an increasingly important role in making driving safer and more comfortable. Comprehensive automotive testing using R&S®RTO6 ensures their correct functionality and maximum safety.

In-vehicle networks & ECU testing

A car has over 100 electronic control units. With **trigger and decode capability**, compliance tests for serial buses as well as **connector testing** the R&S®RTO6 ensures they work properly to control brakes, engine, cameras, automotive radar etc.

Signal integrity

Signal integrity is essential for the correct functioning of electronic interfaces. The R&S®RTO6 provides accurate measurement and decomposition of **jitter and noise** as well as **TDR/TDT** measurements on critical signal traces.

Mobile device interconnections

Many components in smartphones communicate with each other via **MIPI D-PHY** or **MIPI C-PHY** interfaces. The R&S®RTO6 can analyse these interfaces' signal integrity and data content to quickly locate errors.

High-speed interfaces

High-speed digital interfaces are at the core of modern electronic designs. The R&S®RTO6 is a powerful tool for system verification and debugging as well as for compliance testing for **HDMI** and **USB**.

Power analysis

To ensure performance and safety, it is crucial to test the battery cells used in electric vehicles. **EMI debugging** using the powerful spectrum analysis capabilities of R&S®RTO6 helps to keep product development on schedule.

Power integrity measurements

Battery and power tests are crucial for state-of-the-art autonomous systems. **Power rail probes** provide excellent power integrity measurements.

R&S®RTO6 OSCILLOSCOPE

- 6 GHz maximum bandwidth
- 1 million waveforms per second
- 9.4 ENOB for ultimate signal integrity
- 2 Gpoints maximum memory
- Exclusive frequency zone trigger



WELCOME TO SCOPEFIELD

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Learn more about our R&S®RTO6 Oscilloscope:
<https://www.rohde-schwarz.com/product/rto6>



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