ROHDE&SCHWARZ
Make ideas real

R&S®RTP HIGH-PERFORMANCE OSCILLOSCOPE

Signal integrity in real time. Just got better.

The R&S®RTP oscilloscope offers the outstanding performance and flexibility you expect with an enhanced user interface and large screen combined with a very small footprint. It is ideal for signal integrity analysis in real time.

- ► 13.3" full HD display
- ► Enhanced user interference
- ► 3 Gpoints per channel
- ► HDMI™ output
- ► Optimized instrument design
- ► Superior control
- ► More applications
- ► Trigger and decode technology packages

For more information, visit
www.rohde-schwarz.com/product/RTP

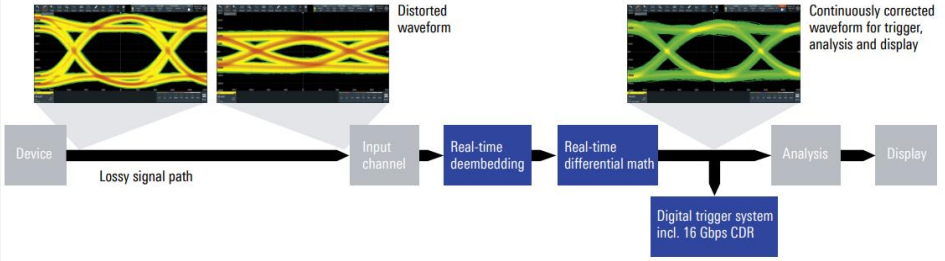
Ideal for

Signal integrity debugging	Serial bus decoding & compliance testing
Radar signal analysis	Wireless signal analysis

Key specifications	
Channels	4
Bandwidth	4, 6, 8,13 or 16 GHz (2 channels interleaved)
Sampling rate	40 Gsample/s (2 channels), 20 Gsample/s per channel
Acquisition memory	100 Mpoints per channel (max. 3 Gpoints per channel)
Acquisition rate	750000 waveforms/s

Your benefit	Features
Real-time signal integrity	The R&S®RTP has the fastest signal fault detection of > 750000 waveforms/s. It also provides deembedding correction and differential signal math in real time, the quickest available signal integrity debugging with a 16 Gbps configurable HW-CDR and serial pattern trigger or hardware accelerated mask test and histogram.
Compact and configurable	Enjoy the most compact and silent 16 GHz oscilloscope when doing everyday work at your lab desk.
Superior user experience	We listened to user requests. We enlarged the display to 13.3" with brilliant full HD resolution and created the best user interface for maximum waveform viewing with short dialog texts, a hamburger menu structure, signal icons and activators along with a repurposed toolbar area.
Comprehensive analysis tools	Choose from a huge variety of analysis tools for protocol triggering and decoding, compliance testing, signal integrity analysis or RF signal analysis.
Multi-instrument capabilities	Benefit from additional test resources and capabilities, incl. 400 MHz MSO (16 channel), unique 18-bit high-precision voltage and current channels (4+4), a 100 MHz arbitrary waveform generator (2 channel), a 16 GHz differential pulse source, the fastest available spectrum analysis function and protocol decoding capabilities.
Comprehensive probe portfolio	R&S®RTP oscilloscopes support a broad range of probing solutions for various measurement requirements. The oscilloscope automatically detects Rohde & Schwarz active probes and corrects the frequency response to obtain flat characteristics. R&S®RTP oscilloscopes come with a high-precision 18 GHz BNC to SMA adapter for applications with a 50 Ω SMA connector.

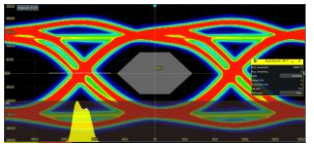
Real-time processing architecture



R&S®RTP offers unique real-time processing capabilities for fastest and most realizable signal analysis.

Unique signal integrity debugging tools

Fastest eye diagram

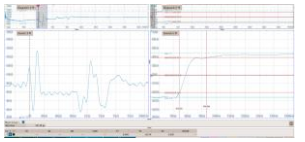


- 16 Gbps HW CDR based triggering
- Real-time deembedding
- Real-time differential math
- Real-time histogram and mask

Most detailed jitter and noise decomposition

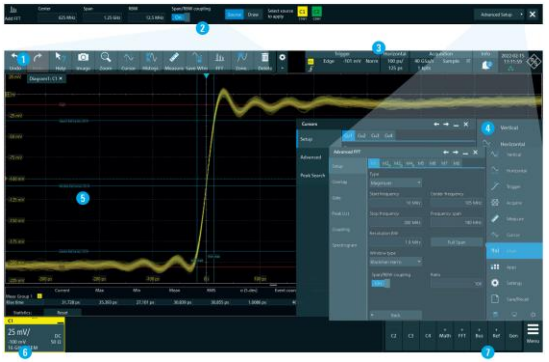
- Histograms for all components
- Track and spectrum views
- Eye diagram, BER bathtub
- Step/Frequency response

Integrated versatile TDR/TDT analysis



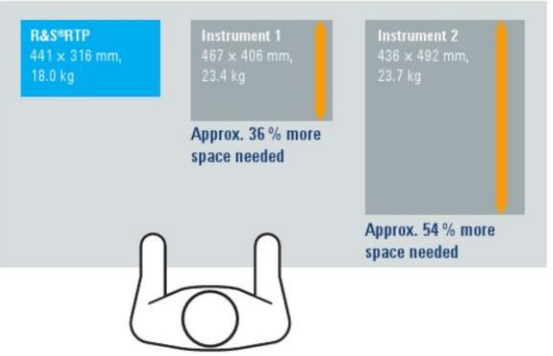
- 16 GHz differential pulse source
- TDR/TDT Analysis software
- Guided calibration and measurement
- PacketMicro probe

Superior user experience



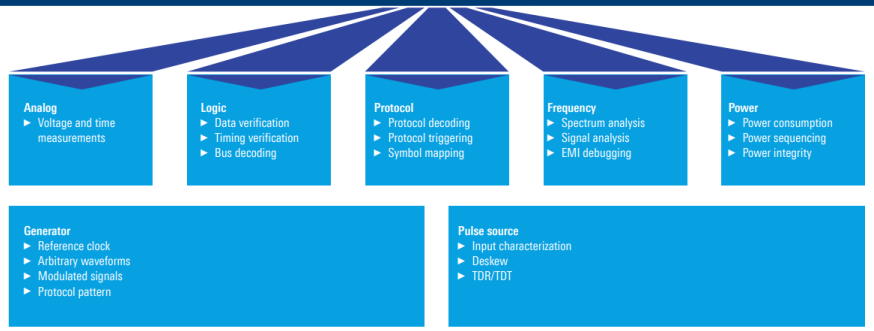
1. Toolbar for quick access
2. Overlay menu for quick setup
3. Trigger, horizontal, acquisition
4. Dialog for advanced setup
5. R&S®SmartGrid for flexible display arrangement
6. Signal bar with icons
7. Signal activators to enable test resources and main menu with access to all instrument settings

Compact – for everyday lab use



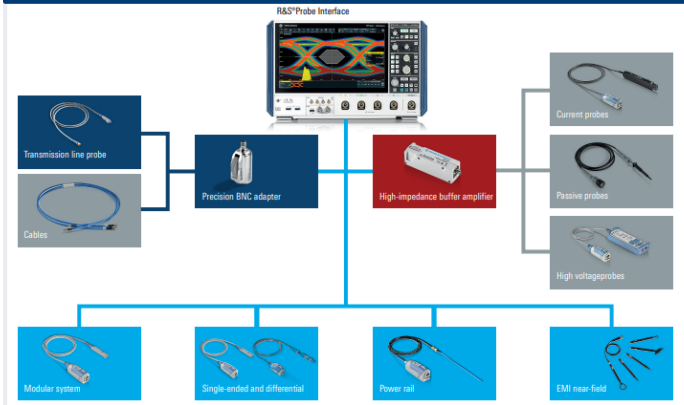
The R&S®RTP uses 54 % less desk space, leaving plenty of room for the measurement setup.

Multi-instrument capability



R&S®RTP oscilloscope provides time-correlated analysis for multiple signal types in highly integrated devices and combines multiple test instrument capabilities in a single box.

Comprehensive probe portfolio



The Rohde & Schwarz Probe interface 1 features a 18 GHz precision BNC connector. The additional data lanes enable the read-out of probe calibration data for automatic correction.

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Trade names are trademarks of the owners | R&S®RTP high-performance oscilloscope | Data without tolerance limits is not binding
Subject to change |