



R&S® RTP HIGH-PERFORMANCE OSCILLOSCOPE

Signal integrity in realtime

Oscilloscope innovation. Measurement confidence.

www.rohde-schwarz.com/RTP

ROHDE & SCHWARZ

Make ideas real



R&S®RTP High-Performance Oscilloscope

The R&S®RTP oscilloscope combines multiple instrument capabilities for time-correlated debugging in one box. Additional integrated test resources such as MSO or multiple 18-bit high-precision voltage and current channels for power measurements make the R&S®RTP the most powerful debugging tool. With all this in a compact instrument format plus quiet operation, the R&S®RTP oscilloscope is the best fit for any lab.

Benefits and key features

Realtime signal integrity

- ▶ High-performance frontend
- ▶ Realtime deembedding
- ▶ Hardware-accelerated processing for fast results
- ▶ Comprehensive analysis tools

Multi-instrument capability

- ▶ Time-correlated analysis of multiple signal types
- ▶ Multiple 18-bit high-precision voltage and current channels

Compact and configurable

- ▶ Most compact high-performance instrument platform
- ▶ Highest configuration flexibility
- ▶ Advanced user interface

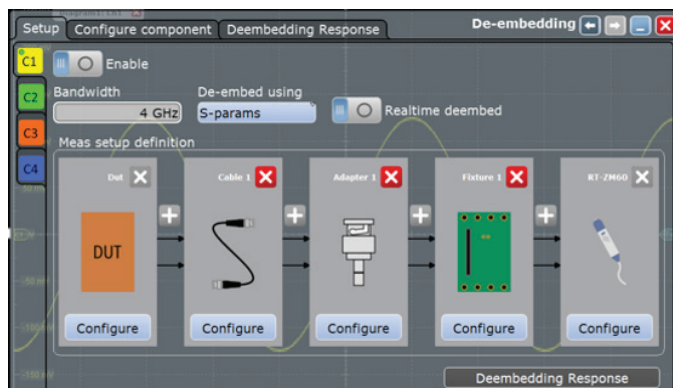
Comprehensive probe portfolio up to 16 GHz



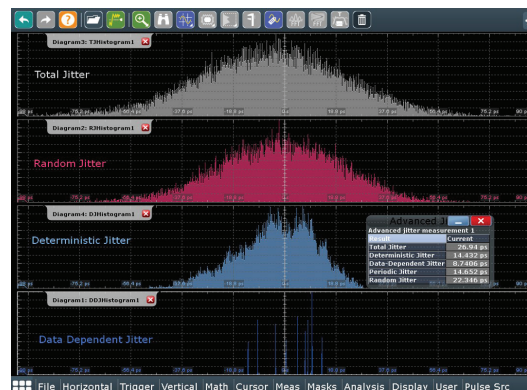
R&S®RTP oscilloscope models

- ▶ Bandwidth (Bandwidth up to 16GHz):
 - R&S®RTP084: 8 GHz
 - R&S®RTP064: 6 GHz
 - R&S®RTP044: 4 GHz
 - R&S®RTP134: 13 GHz
 - R&S®RTP164: 16 GHz
- ▶ Sampling rate: Up to 40 Gsamples/s
- ▶ Acquisition memory:
 - 50 Msample per channel (max. 2 Gsample)
- ▶ Precise trigger capability up to full bandwidth for all triggers
- ▶ Acquisition rate: up to 750,000 waveforms/s
- ▶ Mixed signal analysis (MSO) with 16 digital channels:
 - 400 MHz bandwidth
 - 5 Gsample/s sampling rate
 - 200 Msample memory depth

Comprehensive Jitter Analysis Tools



Deembedding allows the scope to run at full speed (1Mwfms/s) and even trigger on the deembedded signal.



Eye diagram measurements of a DDR memory data signal.

R&S®RTP High-Performance Oscilloscope

Type	Description	Material Number	US List
R&S®RTP044	GM RTP044 4GHz	1320.5007.04	\$52,670
R&S®RTP064	GM RTP064 6GHz	1320.5007.06	\$72,570
R&S®RTP084	GM RTP084 8GHz	1320.5007.08	\$88,400
R&S®RTP134	GM RTP134 13GHz	1320.5007.13	\$109,830
R&S®RTP164	GM RTP164 16GHz	1320.5007.16	\$127,870
Hardware Options			
R&S®RTP-B1	MIXED-SIGNAL OPT. 400 MHZ	1333.2424.03	\$5,440
R&S®RTP-B1E	DIGITAL EXTENSION PORT	1337.9581.02	\$1,350
R&S®RTP-B7	DIFFERENTIAL 16 GHZ PULSE SOURCE	1333.2001.02	\$6,875
R&S®RT-ZVC02	MUTLI-CH. POWER PROBE, 2 CURRENT- AND 2 VOLTAGE CHANNELS	1326.0259.02	\$5,160
R&S®RT-ZVC04	MUTLI-CH. POWER PROBE, 4 CURRENT- AND 4 VOLTAGE CHANNELS	1326.0259.04	\$8,680
R&S®RTP-B19	ADDITIONAL SSD (WIN10)	1337.9498.02	\$825
R&S®RTP-B20	FRONT HANDLES	1338.0688.02	\$50
Memory Options			
R&S®RTP-B101	MEMORY OPTION 100 MSA/CH	1337.9500.02	\$9,350
R&S®RTP-B102	MEMORY OPTION 200 MSA/CH	1337.9517.02	\$18,700
R&S®RTP-B105	MEMORY OPTION 500 MSA/CH	1337.9523.02	\$27,500
R&S®RTP-B110	MEMORY OPTION 1 GSA/CH	1337.9530.02	\$36,850
Accessories			
R&S®RT-ZA16	16 GHz PBNC TO SMA ADAPTER	1320.7074.02	\$550
R&S®RT-ZA17	MATCHED PAIR TDR CABLE	1337.8991.02	\$2,385
R&S®RT-ZB2	USB 3.1 DEMO BOARD 1	1337.9981.02	\$445
R&S®RT-ZB3	USB 3.1 DEMO BOARD 2	1337.9998.02	\$555
Software Options			
TRIGGERING & DECODING			
R&S®RTP-K40	MIPI RFFE T&D	1337.8733.03	\$2,950
R&S®RTP-K42	MIPI D-PHY T&D	1337.8740.03	\$2,300
R&S®RTP-K44	MIPI M-PHY T&D	1337.8756.03	\$3,400
R&S®RTP-K61	USB 3G1 T&D	1337.8804.03	\$2,300
R&S®RTP-K62	USB 3.2 GEN 2 SERIAL T&D	1337.9100.02	\$7,950
R&S®RTP-K63	USB-PD T&D	1337.8810.03	\$2,950
R&S®RTP-K64	USB SSIC	1337.9117.03	\$3,500
R&S®RTP-K72	PCIE2X T&D	1337.8827.03	\$2,650
R&S®RTP-SIBNDL	SIGNAL-INTEGRITY-DEBUGGING BUNDLE Incl. K12/K19/K121/K122/K141	1800.6748.02	\$19,990
R&S®RTP-TDBNDL	TRIGGER & DECODE BUNDLE Incl. K1/K2/K3/K6/K7/K8/K9/K50/K52/K55/K65	1800.6731.02	\$7,550

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Type	Description	Material Number	US List
Software Options			
COMPLIANCE TESTING			
R&S®RTP-K21	USB2.0 COMPLIANCE TEST	1337.8685.03	\$2,750
R&S®RTP-K22	ETHERNET COMPLIANCE TEST	1337.8691.03	\$5,150
R&S®RTP-K23	10G ETHERNET COMPLIANCE	1337.8704.03	\$7,405
R&S®RTP-K25	2.5/5G ETHERNET COMPLIANCE	1337.8710.03	\$7,405
R&S®RTP-K26	MIPI D-PHY COMPLIANCE	1337.8727.03	\$6,500
R&S®RTP-K81	PCIE 1.1 COMPLIANCE	1337.8885.03	\$6,550
R&S®RTP-K86	EEE COMPLIANCE	1337.8833.02	\$2,750
R&S®RTP-K91	DDR3 DEBUG & COMPLIANCE	1337.8840.03	\$4,050
R&S®RTP-K93	DDR4/DDR4L/LPDDR4 SIGNAL INTEGRITY DEBUG & COMPLIANCE	1801.3671.02	\$5,650
GENERAL ANALYSIS			
R&S®RTP-K11	I/Q SOFTWARE INTERFACE	1800.6683.02	\$4,500
R&S®RTP-K17	HIGH DEFINITION MODE	1337.8856.03	\$2,750
R&S®RTP-K35	PROTOCOL DECODING BY AUTOMATED BUS MEASUREMENTS AND GRAPH OF PROTOCOL DATA EXT.	1800.6648.02	\$2,875
R&S®RTP-K37	SPECTROGRAM	1338.1110.03	\$2,750
R&S®RTP-K130	TIME DOMAIN REFLECTION AND TRANSMISSION ANALYSIS OPTION (TDR/TDT)	1326.3093.02	\$6,875
R&S®RTP-K133.3	ADVANCED JITTER ANALYSIS	1800.6860.03	\$9,955
R&S®RTP-K140	8GBPS HIGH-SPEED SERIAL PATTERN TRIGGER	1326.4554.02	\$8,750
RF SIGNAL ANALYSIS			
R&S®VSE	VSE BASE SOFTWARE	1345.1011.06	\$4,900
R&S®FSPC	FSPC LINCENSE DONGLE, PC SW	1310.0002.03	\$225
R&S®VSE-K6	VSE-K6 PULSE MEASUREMENTS	1320.7516.06	\$8,120
R&S®VSE-K7	VSE-K7 ANALOG MOD. ANALYSIS	1320.7539.06	\$3,380
R&S®VSE-K60	VSE-K60 TRANSIENT MEASUREMENTS	1320.7868.06	\$3,410
R&S®VSE-K70	VSE-K70 VECTOR SIGNAL ANALYSIS	1320.7522.06	\$9,540
R&S®VSE-K72	VSE-K72 3GPP-FDD MEASUREMENTS	1320.7580.06	\$9,010
R&S®VSE-K96	VSE-K-96 OFDM SIGNAL ANALYSIS	1320.7922.06	\$10,520



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Rohde & Schwarz USA, Inc.

6821 Benjamin Franklin Drive

Columbia, MD 21046

1-888-TEST-RSA (1-888-837-8772)

www.rohde-schwarz.com/us

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