ROHDE & SCHWARZ Make ideas real



R&S®RTA4000 OSCILLOSCOPES Power of 10



The perfect choice for

R&D debugging – power supplies	R&D debugging – serial buses	Key specifications	
		Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz
		Channels	4 analog channels + 16 digital channels (with MSO option)
R&D debugging – EMI	Manufacturing test and repair	ADC	10-bit
		Max sample rate	5 Gsample/s (interleaved), 2.5 Gsample/s (all channels)
		Memory	100 Msample, 200 Msample (interleaved), 1 Gsample (1000 Msample) history standard
		Display	10.1" capacitive touch, 1280 × 800 pixel resolution
		Boot time	10 seconds
		Connectivity	LAN, USB host/device, fast display over Ethernet
		upgradeable	Bandwidth, protocol trigger and decode, MSO, pattern generator and arbitrary waveform generator
		Probe interface	Probe power and auto configuration

-See more of your signal with the power of 10

What sets these scopes apart from all others in their class? New, advanced technology.

- ► Rohde & Schwarz 10-bit ADC
- ► 500 µV/div hardware setting with full bandwidth and low noise
- 1000 Msample total standard memory, optimal for serial protocol analysis

Your benefit	Features
See small signal details in the presence of large signals	10-bit ADC. Class-leading signal integrity paired with 500 $\mu\text{V}/\text{div}$ hardware setting with full bandwidth and low noise
Easier to see and collaborate. Faster to operate and interpret results.	10.1" capacitive touch screen with 1280 \times 800 pixel resolution. Grid annotation. Split window, R&S $^{\circ}$ SmartGrid.
Capture more time at full bandwidth	5 Gsample/s max. sample rate with up to 200 Msample memory. 12 horizontal grid lines. 1 Gsample history mode. Class-leading timebase accuracy.
Troubleshoot and solve a wide range of problems with one instrument.	X-in-1 oscilloscope. Oscilloscope, logic analyzer, spectrum analyzer, protocol analyzer, frequency response analyzer, arbitrary waveform generator, pattern generator, counter, digital voltmeter.

Warranty

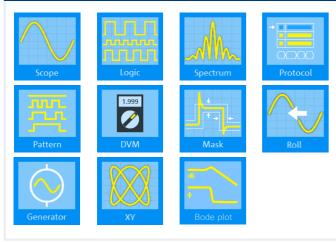
Standard 3-year



Unrivaled signal integrity and deep memory

- Superb noise values allow you to see more of your signal
- Rohde & Schwarz 10-bit ADC
- \blacktriangleright 500 μ V/div hardware setting with full bandwidth and low noise
- Capture more time at full bandwidth
- ► Deep memory: 100 Msample per channel (standard) and 200 Msample (interleaved)
- Class-leading timebase accuracy ensures deep memory measurement accuracy
- Standard history function with over 1000 Msample of memory allows you to look back at potentially tens of thousands of trigger events

X-in-1 oscilloscope



Oscilloscope: standard

Ordering information

Four-channel model

200 MHz bandwidth

350 MHz bandwidth

500 MHz bandwidth

1 GHz bandwidth

Step 1: choose your oscilloscope model 1)

Step 2: choose your bandwidth option

All models include the R&S®RT-ZP10 passive probes for each channel, and a

standard

R&S®RTA-B243

R&S®RTA-B245

R&S®RTA-B2410

Logic analyzer (16-channel MSO): R&S®RTA-B1 option. MSO option includes cabling, lead sets and grabbers. Spectrum analyzer: R&S®RTA-K18 option. Spectrogram. Protocol analyzer: options via serial bus Pattern generator (4 bits): R&S®RTA-B6 option Integrated digital voltmeter: standard Waveform generator (25 MHz): R&S®RTA-B6 option Frequency response analyzer: R&S®RTA-K36 option, Bode plot Trigger counter: standard

Step 3: choose your options and accessories

Software options

R&S®RTA4004

Triggering and decoding	R&S®RTA-K1 I ² C/SPI R&S®RTA-K2 UART/RS-232/422/485 R&S®RTA-K3 CAN/LIN R&S®RTM-K5 I ² S audio R&S®RTM-K6 MIL-STD-1553 R&S®RTM-K7 ARINC-429		
Spectrum analysis	R&S®RTA-K18		
Power analysis	R&S®RTA-K31		
Frequency response analysis (Bode plot)	R&S®RTA-K36		
Application bundle	R&S®RTA-PK1 (-K1, -K2, -K3, -K5, -K6, -K7, -K18, -K31, -K36, -B6)		
Hardware options			
R&S®RTA-B1 mixed signal upgrade for non-MSO models, 400 MHz			
R&S®RTA-B6 arbitrary waveform generator			
Accessories			

R&S®RTB-Z1 plastic front cover

R&S®RTB-Z3 soft carrying bag

R&S®RTB-Z4 transit case

R&S®ZZA-RTB2K rackmount kit

Step 4: choose your probes (others are available)

Power rail probe 2.0 GHz, 1:1, 50 kΩ, ±0.85 V, ±60 V offset, R&S®RT-ZPR20 Rohde&Schwarz probe interface Active single-ended probes 1.0 GHz, 1 MΩ, Rohde&Schwarz probe interface R&S®RT-ZS10E Active differential probes 1.0 GHz. 1 MΩ. R&S[®]ProbeMeter. micro button. R&S®RT-ZD10 Rohde&Schwarz probe interface **Current probes** 100 MHz, AC/DC, 0.1 V/A, 30 A (RMS). R&S®RT-ZC20B Rohde&Schwarz probe interface High voltage differential probes 100 MHz, 1000:1/100:1, 40 MΩ, 6000 Vpk, 1000 V R&S®RT-7HD60 CAT III, Rohde&Schwarz probe interface

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