R&S®RTA4000 Oscilloscopes

Power of 10



The perfect choice for		
R&D power integrity debugging	R&D serial bus debugging	
R&D debugging EMI debugging	Manufacturing testing and repair	

Key specifications			
Bandwidth	200 MHz, 350 MHz, 500 MHz, 1 GHz		
Channels	4 analog channels + 16 digital channels (with MSO option)		
ADC	10-bit		
Max. sampling rate	5 Gsample/s (interleaved), 2.5 Gsample/s (all channels)		
Memory	100 Msample, 200 Msample (interleaved), 1 Gsample (1000 Msample) in history mode		
Display	10.1" capacitive touch, 1280 x 800 resolution		
Boot time	10 seconds		
Connectivity	LAN, USB host/device, fast display over Ethernet		
Upgradable	bandwidth, protocol trigger and decode, MSO, pattern generator and arbitrary waveform generator		
Probe interface	probe power and auto configuration		
Warranty	standard 3-year		

See more of your signal with the power of 10

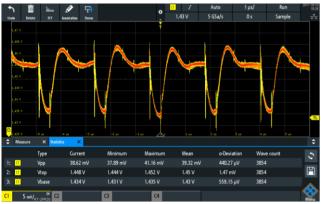
What sets these scopes apart from all others in their class? New, advanced technology.

- Rohde & Schwarz designed 10-bit ADC
- 500 µV/div sensitivity 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 500 µV/div sensitivity with full bandwidth and low noise
Easier to see and collaborate. Faster to operate and interpret results	10.1" capacitive touchscreen with 1280 800 resolution, grid annotation, split window, SmartGrid.
Capture more time at full bandwidth	5 Gsample/s max. sample rate with up to 200 Msample memory, 12 horizontal divisions, 1 Gsample in history mode, class-leading timebase accuracy
Troubleshoot and solve a wide range of problems with one instrument	8 instruments in one: oscilloscope, logic analyzer, spectrum analyzer, protocol analyzer, arbitrary waveform generator, pattern generator, counter, digital voltmeter

> For more information, visit www.rohde-schwarz.com/catalog/RTA4000





Ordering information

Step 1: Choose your oscilloscope model

Four-channel model: R&S®RTA4004

Included: All models include R&S®RT-ZP10 passive probes for each channel, a power cord and a 3-year warranty.

Languages supported: English, German, French, Spanish, Italian, Portuguese Czech, Polish, Russian, simplified and traditional Chinese, Korean and Japanese.

Step 2: Choose your bandwidth option		
200 MHz bandwidth	standard	
350 MHz bandwidth	R&S®RTA-B243	
500 MHz bandwidth	R&S®RTA-B245	
1 GHz bandwidth	R&S®RTA-B2410	

Unrivaled signal integrity and deep memory

- Superb noise values allows you to see more of your signal
- Rohde & Schwarz designed 10-bit ADC
- 500 µV/div sensitivity with full bandwidth and low noise
- Capture more time at full bandwidth
- Deep memory: standard 100 Msample per channel 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 see back in time to potentially tens of thousands of trigger events

8 instruments in one	
Oscilloscope	standard
Logic analyzer (16-channel MSO)	R&S*RTA-B1MSO option, includes cabling, lead sets and grabbers
Protocol analyzer	options for different serial buses
Spectrum analyzer	R&S*RTA-K18 option with spectrogram
Integrated digital voltmeter	standard
Trigger counter	standard
Waveform generator (25 MHz)	R&S*RTA-B6 option
Pattern generator (4-bit)	R&S*RTA-B6 option

Step 3: Choose your options and accessories			
Software options			
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		
Application bundle	R&S*RTA-PK1 (includes R&S*RTA-K1, - K2, -K3, -K5, -K6, -K7, -K18, -K31, -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®ZZA-RTA4K rackmount kit			

Step 4: Choose your probes (more available)				
Power rail probe	Туре			
2.0 GHz, 1:1, 50 k Ω , ±0.85 V, ±60 V offset, Rohde & Schwarz probe interface	R&S°RT-ZPR20			
Active single-ended probes				
1.0 GHz, 1 M Ω , Rohde & Schwarz probe interface	R&S°RT-ZS10E			
Active differential probes				
1.0 GHz, 1 MΩ, R&S®ProbeMeter, micro button, Rohde & Schwarz probe interface	R&S°RT-ZD10			
Current probes				
100 MHz, AC/DC, 0.1 V/A, 30 A (RMS), Rohde & Schwarz probe interface	R&S°RT-ZC20B			
High voltage differential probes				
100 MHz, 1000:1/100:1, 40 M Ω , 6000 V (pk), 1000 V CATIII, Rohde & Schwarz probe interface	R&S°RT-ZHD60			

Glebe Road, Huntingdon, PE29 7DR, UK +44 (0)1480 412 451

