

R&S®RTB2000 Oscilloscope



Read the review from one of
the RoadTesters at Element14



More signal details with the power of 10

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

- ▶ 10-bit ADC – see small signal details in the presence of large signals
- ▶ 10 Msample acquisition memory depth on each channel (20 Msample when interleaved)
- ▶ Large 10.1" high-resolution capacitive touchscreen with gesture support

Model overview						
Model	Bandwidth	Channel (analog/digital)	Sample rate (analog/digital)	Memory depth	Update rate	Vertical resolution
R&S®RTB2002	70 MHz	2/16 (optional)	2.5 Gsample/s/1.25 Gsample/s	up to 160 Msample	50 000 waveforms/s	10 bit
R&S®RTB2004	70 MHz	4/16 (optional)	2.5 Gsample/s/1.25 Gsample/s	up to 160 Msample	50 000 waveforms/s	10 bit

Important facts		
Specification	R&S®RTB2000	Why this is important
Bandwidth	70/100/200/300 MHz, upgradeable	Upgradeable bandwidth up to 300 MHz provides investment protection for future requirements.
ADC resolution	10 bit	Allows users to see more detail and smaller signals.
Max. memory depth	20 Msample (160 Msample history)	Allows capture of the longest period of time at high sample rate.
Display	10.1", 1280 × 800 pixel, capacitive touchscreen	Makes it easier to operate and see information on the display.
Update rate	50 000 waveforms/s	The faster the update rate, the faster users can find infrequent events.
Integration	DVM, counter, function generator, pattern generator, 16 channels MSO	Allows debugging of low speed serial devices and mixed signal designs.
Interfaces	USB, LAN with fast web browser and MTP	Remote control makes updating and monitoring of the instrument easy.

Scope of delivery	
▶	Single-ended passive probes for each channel
▶	Power cord
▶	USB cable
▶	User manual
▶	3 year warranty

Recommended options/accessories	
Description	Type
Hardware options	
Mixed signal upgrade for non-MSO models, 300 MHz, incl. 2 × R&S®RT-ZL03	R&S®RTB-B1
Arbitrary waveform generator	R&S®RTB-B6
Software options	
I ² C/SPI serial triggering and decoding	R&S®RTB-K1
UART/RS-232/422/485 serial triggering and decoding	R&S®RTB-K2
CAN/LIN serial triggering and decoding	R&S®RTB-K3
History and segmented memory with 160 Msample	R&S®RTB-K15
Frequency response analysis (Bode plot)	R&S®RTB-K36
Application bundle (-K1, -K2, -K3, -K15, -K36, -B6)	R&S®RTB-PK1

