



R&S® RTC1000 versus Tektronix TBS1000C



High sensitivity, multi-functional and a great price.

From embedded developers to service technicians to educators – the wide range of functions address a broad group of users. State-of-the-art, high-performance technology in an extremely silent design meets the high requirements of today’s customers. These digital oscilloscopes include a wide range of upgrade options, providing true investment protection for the future.

Your benefit	Features
See small signals often hidden in noise	High sensitivity and low noise means you’ll be able to zoom in and see signals that are often hidden in the noise of other scopes.
No searching for different tools	Multiple devices integrated into the R&S®RTC1000 means you don’t have to search for other tools. These functions also take advantage of the large display on the R&S®RTC1000.
Standard functionality	Many standard features means you get more capability for your investment.

Memory depth comparison

R&S®RTC1000 standard 2 Msample memory

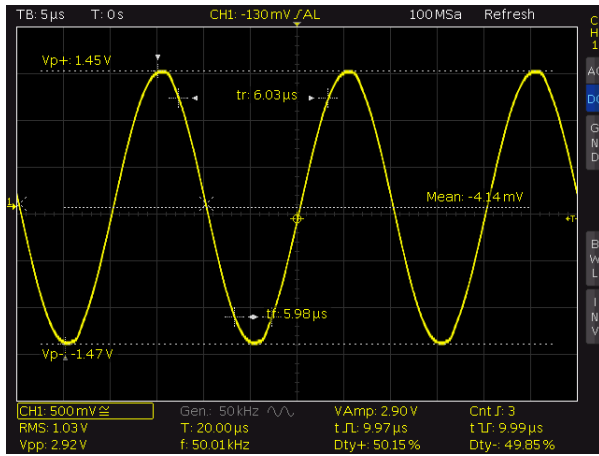
← Tektronix TBS1000C standard 0.02 Msample memory

Up to **100 times more memory** allows you to keep sample rates high and provides insurance against unexpected measurements where other oscilloscopes run out of memory.

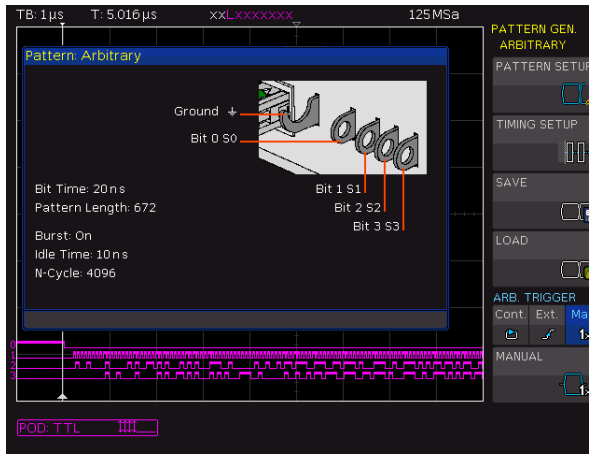
Parameter	R&S®RTC1000	Tektronix TBS1000C
Acquisition system		
Bandwidth (MHz)	50, 70, 100, 200, 300 (upgradable)	50, 100, 200
2 channels / 4 channels	2 channels	2 channels
Max. sampling rate / memory	2 Gsample/s 2 Msample	1 Gsample/s 0.02 Msample
Waveform update rate	10 000 waveforms/s	100 waveforms/s
Hardware input sensitivity	1 mV/div to 10 V/div	1 mV/div (bandwidth limited) to 10 V/div
Multifunction		
Protocol	I ² C, SPI, UART/RS-232/RS-422/RS-485, CAN, LIN	not available
Frequency analysis	128k points	2k points
Mixed signal (MSO)	8 channels, upgradable 0.5 Gsample/s, 0.5 Msample	not available
DVM	standard	not available
Component tester	standard	not available
Waveform generator	optional (-B6)	not available
Pattern generator	optional (-B6)	not available
Form factor		
Display	6.5" / 640 x 480	7" / 800 x 480
Interfaces	standard USB device/host; standard LAN (fast Web browser)	standard USB device/host; GPIB (optional)
Audible noise	28.3 dB(A)	not specified



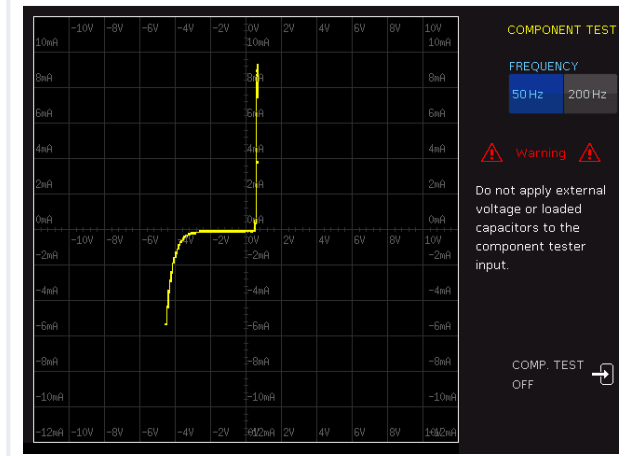
QuickView gives you the most important results at the push of a button



The integrated waveform generator outputs arbitrary waveforms and 4-bit signal patterns

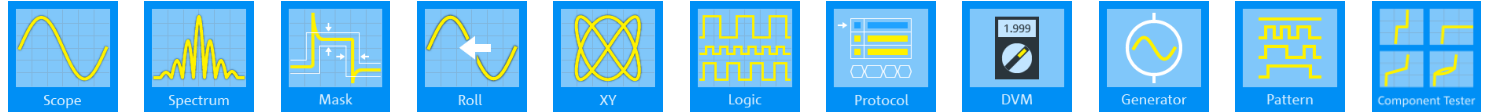


The integrated component tester helps you quickly assess faulty components



X-in-1 functionality

R&S®RTC1000



Tektronix TBS1000



Advantages of R&S®RTC1000 over Tektronix TBS1000



100 x faster waveform capture



2 x More sample rate



6 x more functionality



2 x faster boot time

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