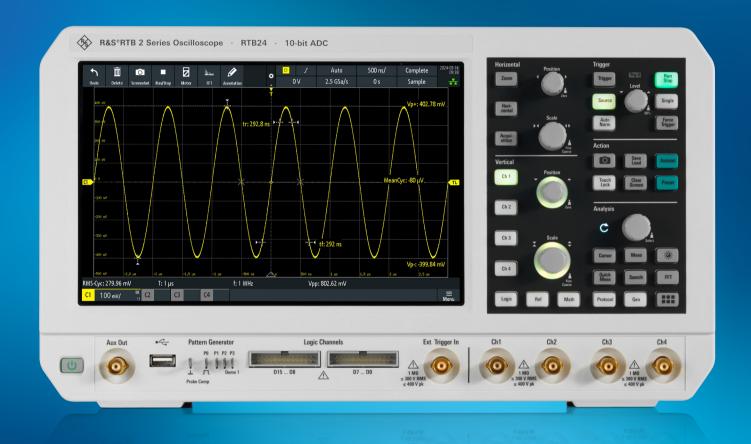
R&S®ESSENTIALS

R&S®RTB 2 SERIES OSCILLOSCOPE

Power of ten for every task, everyday



Product Brochure Version 01.00

Oscilloscope innovation. Measurement confidence. www.rohde-schwarz.com/product/RTB2

ROHDE&SCHWARZ

Make ideas real



POWER OF TEN FOR EVERY TASK, EVERYDAY

R&S®RTB 2 series oscilloscopes combine the power of ten with smart operating concepts to make them a perfect general-purpose tool for students, hobbyists, technicians and engineers. The R&S®RTB 2 series is the follow up to the high-performance R&S®RTB2000 oscilloscope. Try one in the lab and see the difference.

Power of ten:

- ▶ 10-bit ADC
- ▶ 10 Mpoints memory
- ▶ 10.1" capacitive touchscreen
- ▶ 10 s boot time
- ▶ 10-in-1 instruments







4-channel model

70/100/200/300 MHz bandwidth

Up to 2.5 Gsample/s sample rate

Up to 260 Mpoints in segmented mode

MSO-ready

WHY ENGINEERS LOVE ROHDE & SCHWARZ OSCILLOSCOPES

- ► A trusted, global company with a long-standing commitment to customers, quality and continuous innovation
- ► The newest oscilloscope portfolio from 60 MHz to 16 GHz
- Superior intuitive user interface and front panel to increase productivity
- ▶ Best-in-class time-domain and frequency-domain measurements

WHY THE R&S®RTB 2 SERIES

➤ 10-in-1 instrument: oscilloscope, protocol analyzer, logic analyzer, waveform and pattern generator, digital multimeter, frequency response analyzer, spectrum analyzer, counter and mask tester



SEE SIGNAL DETAILS

IN THE PRESENCE OF LARGE SIGNALS

10-bit vertical resolution

The R&S°RTB 2 includes a customized Rohde&Schwarz 10-bit A/D converter and is a four-fold improvement over conventional 8-bit A/D converters. The higher resolution generates sharper waveforms and reveals more details that would otherwise be missed.

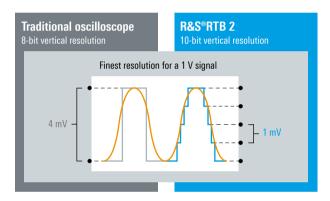
The R&S®RTB 2 oscilloscope incorporates low-noise frontends and state-of-the-art A/D converters. High-resolution mode further reduces noise by applying a filter across contiguous samples.

Low noise: full measurement bandwidth down to 1 mV/div

The R&S®RTB 2 oscilloscope has excellent sensitivity down to 1 mV/div. Traditional oscilloscopes can only have such input sensitivity with software based magnification or limiting bandwidth.

Need to see large signals? The variable gain amplifier accepts up to 5 V/div. Use a 10:1, 100:1 or even higher attenuation probe to safely measure larger signals.

10-bit A/D converter: uncovers even small signal details





The Rohde & Schwarz designed 10-bit A/D converter ensures highest signal fidelity at highest resolution

CAPTURE MORE TIME

DEEP STANDARD MEMORY

Deep memory as an insurance policy

Along with bandwidth and sample rates, memory depth is the most important factor when determining oscilloscope troubleshooting capacity. More acquisition memory lets oscilloscopes capture more time. More memory lets oscilloscopes retain the maximum sample rate and bandwidth even with slower timebase settings.

Time captured = (memory depth)/(sample rate)

Maintain fast sample rates with slow timebase settings

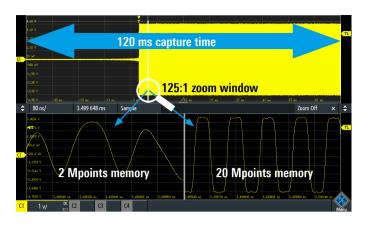
Ever adjusted your oscilloscope timebase to capture longer periods of time, pressed stop, then zoomed in to find the signal details are not quite right? This is the aliasing problem common to oscilloscopes with shallow memory capacity. The deep R&S®RTB 2 memory enables longer time captures at full sample rates.

Standard segmented memory

Use segmented memory to capture signals separated by inactivity. Examples include laser pulses, serial bus activity and RF pulses. R&S®RTB 2 series oscilloscopes have a segmented memory to capture signals over long observation periods of up to 13 000 segments and up to 260 Mpoints total (13 000 segments × 20 kpoints per segment).

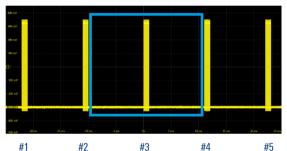
Standard history capability

Press stop and use the history mode to see previously captured acquisitions. All measurement and analysis tools are available in the history mode, including the serial bus decoding and automatic measurements. Turn on persistence to see a waveform overlay of all captured events. Turn on measurements with statistics to see measurement progression across the entire history.

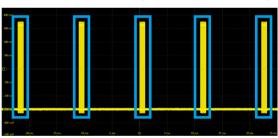


Traditional single-shot acquisition

Total acquisition time = memory depth/sample rate



Segment



Segmented memory acquisition

Acquisition time per segment = memory depth/# of segments

FREQUENCY RESPONSE ANALYSIS

CREATING BODE PLOTS

Low-frequency response analysis

Use the R&S®RTB-K36 frequency response analysis option (Bode plot) for quick and easy low-frequency response analyses with your oscilloscope.

Characterize the frequency response for several electronic devices, including passive filters and amplifier circuits. The control loop response and power supply rejection ratio for switch mode power supplies can also be measured. The stimulus can be generated with a standard built-in waveform generator. By measuring the ratio of the stimulus signal relative to the DUT output signal at each test frequency, the oscilloscope logarithmically plots gain and phase.

The frequency response analysis option turns on the integrated waveform generator to create stimulus signals ranging from 10 Hz to 25 MHz. Measuring the ratio of the stimulus signal to the DUT output signal at each test frequency, the oscilloscope also logarithmically plots gain and phase.

The R&S®RT-ZP1X 38 MHz bandwidth 1:1 passive probe reduces probe noise for the best signal-to-noise ratio (SNR) for weak signals.

Features and functions

Create up to 16 generator amplitude output level steps to optimize the SNR at different frequencies when measuring CLR and PSRR.

Define the number of points per decade to trade off measurement speed versus resolution.

The oscilloscope display shows analog waveforms and the resulting Bode plots in parallel.

The table of measurement results displays the gain and phase for each frequency tested. Analyze with markers and the result table. Save screenshots, result tables or both to a USB drive.

The R&S®RTB-K36 frequency response analysis (Bode plot) option characterizes the frequency response of a variety of electronic devices, including passive filters and amplifier circuits



THE BEST CHOICE FOR EDUCATION

Ready for the teaching lab

Let students prepare for the working world with an oscilloscope used by companies in the industry. Use the password-protected education mode to disable automatic functions, such as autoset, so students can learn the fundamental concepts. On your PC, type in the IP address and use the built-in web server to easily show the oscilloscope display in a classroom or over a network.

X-in-1 integration saves space and money

The R&S®RTB 2 gives students and educators an oscilloscope plus logic and protocol analyzer, waveform and pattern generator, Bode analysis, digital voltmeter, spectrum analyzer and counter. The compact design, quiet operation and small footprint save precious bench space in the lab.

Perfect instruments for everyday educational with broad functionality, rugged design, quiet operation and small footprint



FUN TO DRIVE

15-MINUTE LEARNING CURVE, INTUITIVE NAVIGATION

Multilingual support: choose among thirteen languages

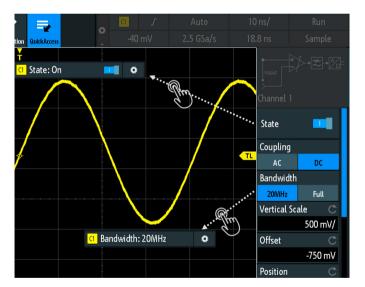
Choose from English, German, French, Spanish, Italian, Portuguese, Czech, Polish, Russian, simplified and traditional Chinese, Korean and Japanese.



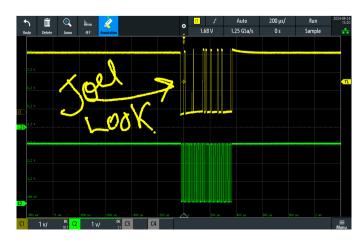
Navigate to any oscilloscope function using the menu key in the lower right corner of the touchscreen.



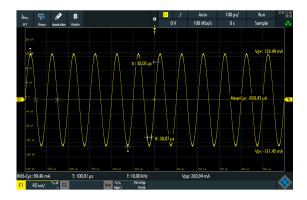
Touch any signal icons to bring up a short menu of common settings.



Add annotations to document screenshots including hand-drawn graphics.



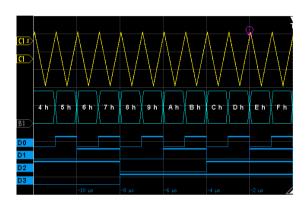
X-IN-1 OSCILLOSCOPE



Oscilloscope

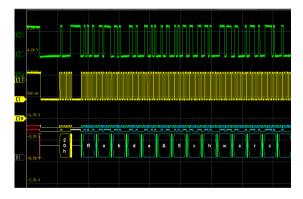
Get quick insight with the intuitive and powerful oscilloscope function. The superior sample rate, memory, depth and ADC resolution, make the R&S®RTB 2 oscilloscope a leader in its class.

Standard tools are included for quick results, such as QuickMeas, mask tests, FFT, math, cursors and automatic measurements, including statistics.



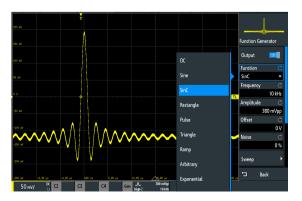
Logic analyzer

Every R&S®RTB 2 oscilloscope is MSO-ready and can connect two logic probes to turn every R&S®RTB 2 into an intuitive MSO with 16 additional digital channels. The oscilloscope captures and analyzes signals from analog and embedded digital design components – synchronously and time-correlated.



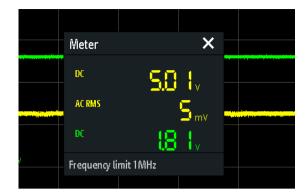
Serial bus protocol analyzer

Protocols such as I²C, SPI, UART/RS-232, CAN and LIN frequently transfer control messages between integrated circuits. The R&S®RTB 2 has versatile options for protocol-specific triggering and decoding of serial interfaces.



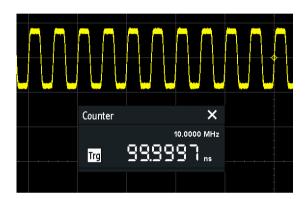
Waveform and pattern generator

Standard on all R&S®RTB 2 instruments, the integrated waveform (25 MHz) and pattern generator (up to 50 Mbit/s) provides circuit stimulus to emulate missing circuits. Or take advantage of educational opportunities for waveform and pattern generation. Waveforms and patterns can be imported as CSV files or copied from oscilloscope waveforms. Add noise to generated waveforms to simulate unfriendly environments. Predefined I²C, SPI, UART and CAN/LIN patterns are available for pattern generation. Select a counter or enter patterns manually.



Digital voltmeter

The R&S®RTB 2 features a three-digit digital voltmeter (DVM). Choose from DC, AC + DC (RMS) and AC (RMS).



Counter

Use the standard integrated counter to measure frequencies, such as the trigger rate.



FFT (spectrum analyzer)

The FFT function on the R&S®RTB 2 is activated at the push of a button. Use it as a spectrum analyzer by entering center frequency and span. Autoset and cursor measurements can be used to measure the fast frequency-domain measurements.



Mask test mode

Use mask tests to quickly reveal whether a specific signal is within defined tolerance limits. Mask testing provides statistical pass/fail evaluations. Quickly identify violations and gather pass/fail statistics. Each violation can generate a pulse output at the AUX-OUT connector.

LAN AND USB CONNECTIVITY

USB and LAN I/O

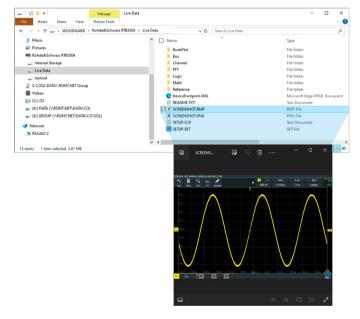
All R&S®RTB 2 oscilloscopes come with both LAN and USB type B ports located on the rear panel (see area outlined in blue in the photo) for versatile control and data management options. The USB type B port simplifies file sharing with the easy transfer of saved waveforms, screenshots and measurement data directly to a connected PC. The connection eliminates the need for additional software and makes it easier to work with captured data and have it readily available for analysis and documentation. The combination of USB and LAN I/O on the R&S®RTB 2 series is a powerful, flexible and user-friendly interface for both local and remote oscilloscope control.

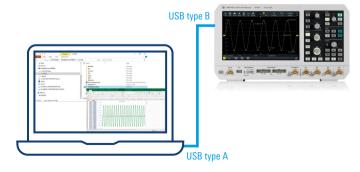


MTP connectivity

The R&S®RTB 2 oscilloscopes have seamless media transfer protocol (MTP) connectivity to PCs via the USB host port. File sharing and data management are exceptionally easy. Once connected, the oscilloscope appears on your PC as an additional drive, like a USB flash drive. This intuitive function gives lets users directly access files stored on an oscilloscope without additional drivers or complex setup procedures.

Transferring data is a simple drag & drop process with MTP. Screenshots can be quickly opened in popular applications such as PowerPoint or Word, streamlining report generation by eliminating the need to manually save and import images. Similarly, waveform data can be easily transferred into Excel or other data analysis tools for immediate processing and quick post-measurement analysis. Extra steps are eliminated and workflows sped up so that captured data is instantly ready for further use. The R&S®RTB 2 oscilloscope MTP function makes users much more efficient by simplifying the handling of measurement data and screenshots, The oscilloscope is vital tool for both quick documentation and in-depth analysis.

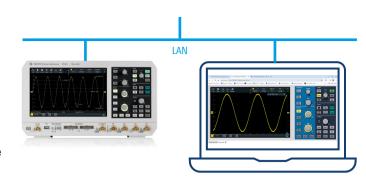




LAN connectivity

The R&S®RTB 2 oscilloscopes are engineered for a very efficient and user-friendly remote control experience through advanced LAN connectivity. By simply entering the IP address for an oscilloscope into any web browser, users can immediately access the complete instrument interface. Oscilloscope parameters can be adjusted and monitored in real time with a virtual front panel, effectively eliminating the need for physical interaction with the instrument. The virtual front panel is very useful in remote testing scenarios where physical access to the oscilloscope is limited or impractical.

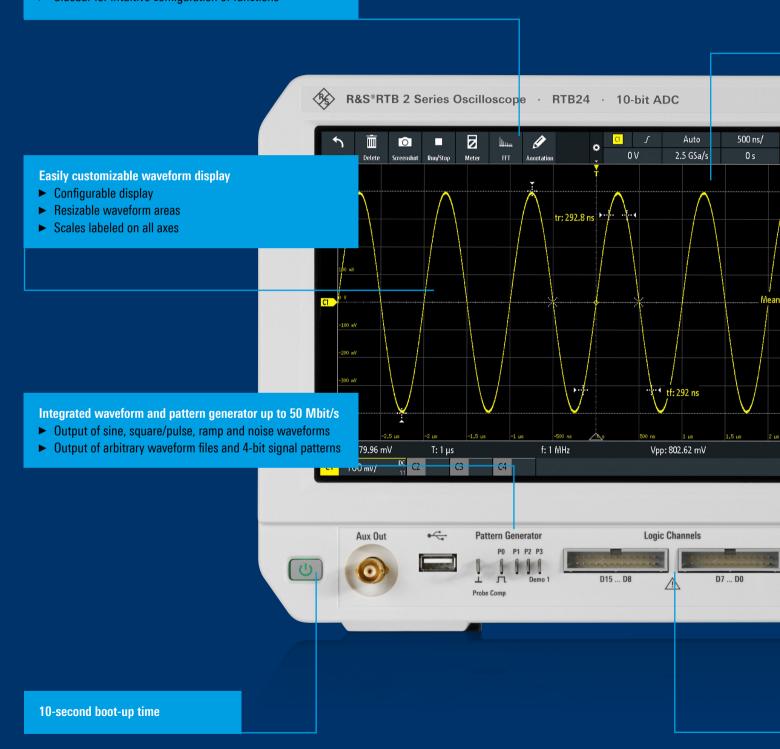
The LAN interface supports standard commands for programmable instruments (SCPI) for robust program control that integrates seamlessly with automated test setups. Using SCPI commands is critical for incorporating the oscilloscope into larger automated systems or when precise, remote instrument operation is required. The builtin web interface helps both with comprehensive controls but also simplifies data management. Users can capture screenshots and transfer measurement data directly to a PC without additional software or manual data entry. Streamlining data sharing and reporting enhances productivity and makes it easy to swiftly document and analyze results from a remote location. The combination of intuitive web based controls, versatile programming capabilities and efficient data entry with an LAN connection makes the R&S®RTB 2 series a powerful and adaptable solution for any laboratory.



10.1" HIGH-RESOLUTION CAPACITIVE TOL

Quick access to important tools

- ► Drag & drop use of analysis tools
- ► Toolbar for access to functions
- Sidebar for intuitive configuration of functions



JCHSCREEN WITH GESTURE SUPPORT

10.1" high-resolution capacitive touchscreen with gesture support

- Gesture support for scaling and zooming
- ► More display area than similar oscilloscopes
- ► See a sharper image with more pixels: 1280×800 pixel resolution



► Get time-correlated analysis of analog and digital signals

OSCILLOSCOPE PORTFOLIO









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	R&S®RTH1000	R&S®RTC1000	R&S®RTB 2	R&S®RTM3000
Vertical system				
Bandwidth 1)	60/100/200/350/500 MHz	50/70/100/200/300 MHz	70/100/200/300 MHz	100/200/350/500 MHz/1 GHz
Number of channels	2 plus DMM/4	2	2/4	2/4
Vertical resolution; system architecture	10 bit; 16 bit	8 bit; 16 bit	10 bit; 16 bit	10 bit; 16 bit
V/div, 1 MΩ	2 mV to 100 V	1 mV to 10 V	1 mV to 5 V	500 μV to 10 V
V/div, 50 Ω	=	1 111 10 10 1	· · · · · · · · · · · · · · · · · · ·	500 μV to 1 V
Digital channels	8	8	16	16
Horizontal system			10	
Sampling rate per channel (in Gsample/s)	1.25 (4-channel model); 2.5 (2-channel model); 5 (all channels interleaved) 125 kpoints	1; 2 (2 channels interleaved)	1.25; 2.5 (2 channels interleaved)	2.5; 5 (2 channels interleaved)
Maximum memory (per channel; 1 channel active)	(4-channel model); 250 kpoints (2-channel model); 500 kpoints	1 Mpoints; 2 Mpoints	10 Mpoints; 20 Mpoints	40 Mpoints; 80 Mpoints
Segmented memory	standard, 50 Mpoints	-	standard, 320 Mpoints	option, 400 Mpoints
Acquisition rate (in waveforms/s)	50 000	10 000	50 000 (300 000 in fast seg- mented memory mode)	64000 (2000000 in fast segmented memory mode ²¹)
Trigger				
Types	digital	analog	analog	analog
Sensitivity	-	-	at 1 mV/div: > 2 div	at 1 mV/div: > 2 div
Analysis				
Mask test	tolerance mask	tolerance mask	tolerance mask	tolerance mask
Mathematics	elementary	elementary	basic (math on math)	basic (math on math)
Serial protocols triggering and decoding ¹⁾	I ² C, SPI, UART/RS-232/RS-422/ RS-485, CAN, LIN, CAN FD, SENT	l ² C, SPI, UART/RS-232/RS-422/ RS-485, CAN, LIN	l ² C, SPI, UART/RS-232/RS-422/ RS-485, CAN, LIN	l ² C, SPI, UART/RS-232/RS-422/RS-485, CAN, LIN, l ² S, MIL-STD-1553, ARINC429
Applications ^{1), 2)}	high-resolution frequency counter, advanced spectrum analysis, harmonics analysis, user scripting	digital voltmeter (DVM), com- ponent tester, fast Fourier trans- form (FFT)	digital voltmeter (DVM), fast Fourier transform (FFT), frequency response analysis	power, digital voltmeter (DVM), spectrum analysis and spectrogram, frequency response analysis
Compliance testing 1), 2)	-	-	-	-
Display and operation				
Size and resolution	7" touchscreen, 800 × 480 pixel	6.5", 640 × 480 pixel	10.1" touchscreen, 1280 × 800 pixel	10.1" touchscreen, 1280 × 800 pixel
General data				
Dimensions in mm (W × H × D)	201 × 293 × 74	285 × 175 × 140	390 × 220 × 152	390 × 220 × 152
Weight in kg	2.4	1.7	2.5	3.3
Battery	lithium-ion, > 4 h	-	-	-

¹⁾ Upgradeable.

²⁾ Requires an option.









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MX0 4	MXO 5/MXO 5C	R&S®RT06	R&S®RTP
200/350/500 MHz/1/1.5 GHz	100/200/350/500 MHz/1/2 GHz	600 MHz/1/2/3/4/6 GHz	4/6/8/13/16 GHz
4	4/8	4	4
12 bit; 18 bit	12 bit; 18 bit	8 bit; 16 bit	8 bit; 16 bit
500 μV to 10 V	500 μV to 10 V	1 mV to 10 V (HD mode: 500 μV to 10 V)	
500 μV to 1 V	500 μV to 1 V	1 mV to 1 V (HD mode: 500 μ V to 1 V)	2 mV to 1 V (HD mode: 1 mV to 1 V)
16	16	16	16
2.5; 5 (2 channels interleaved)	5 on 4 channels; 2.5 on 8 channels (2 channels interleaved)	10; 20 (2 channels interleaved in 4 GHz and 6 GHz model)	20; 40 (2 channels interleaved)
standard: 400 Mpoints; max. upgrade: 800 Mpoints ²⁾	standard: 500 Mpoints max. upgrade: 1 Gpoints ²⁾	standard: 200 Mpoints/800 Mpoints; max. upgrade: 1 Gpoints/2 Gpoints	standard: 100 Mpoints/400 Mpoints; max. upgrade: 3 Gpoints
standard: 10 000 segments; option: 1 000 000 segments	standard: 10 000 segments; option: 1 000 000 segments	standard	standard
> 4500000	> 4500 000 on 4 channels	1 000 000 (2 500 000 in ultra-segmented memory mode)	750 000 (> 3000 000 in ultra-segmented memory mode)
advanced (includes zone trigger), digital trigger (15 trigger types)	advanced (includes zone trigger), digital trigger (15 trigger types)	advanced (includes zone trigger), digital trigger (15 trigger types), high speed serial pattern trigger including 5 Gbps clock data recovery (CDR) ²⁾	advanced (includes zone trigger), digital trigger (14 trigger types) with real-time deembedding ²¹ , high speed serial pattern trigger including 8/16 Gbps clock data recovery (CDR) ²¹
0.0001 div, across full bandwidth, user controllable	0.0001 div, across full bandwidth, user controllable	0.0001 div, across full bandwidth, user controllable	0.0001 div, across full bandwidth, user controllable
		user configurable, hardware based	user configurable, hardware based
advanced (formula editor)	advanced (formula editor)	advanced (formula editor, Python interface)	advanced (formula editor, Python interface)
I ² C, SPI, UART/RS-232/RS-422/ RS-485, CAN, CAN FD, CAN XL, LIN, SPMI, 10BASE-T1S, ARINC, SPMI, QUAD-SPI	I ² C, SPI, UART/RS-232/RS-422/ RS-485, CAN, CAN FD, CAN XL, LIN, SPMI, 10BASE-T1S, 100BASE-T1, ARINC, SPMI, QUAD-SPI	I ² C, SPI, UART/RS-232/RS-422/RS-485, CAN, LIN, I ² S, MIL-STD-1553, ARINC 429, FlexRay™, CAN FD, MIPI RFFE, USB 2.0/HSIC, MDIO, 8b10b, Ethernet, Manchester, NRZ, SENT, MIPI D-PHY, SpaceWire, MIPI M-PHY/UniPro, CXPI, USB 3.1 Gen 1, USB-SSIC, PCIe 1.1/2.0, USB Power Delivery, Automotive Ethernet 100/1000BASE-T1	I ² C, SPI, UART/RS-232/RS-422/RS-485, SENT, CAN, LIN, CAN FD, MIL-STD-1553, ARINC 429, SpaceWire, USB 2.0/HSIC/PD, USB 3.1 Gen 1/Gen 2/SSIC, PCIe 1.1/2.0/3.0, 8b10b, MIPI RFFE, MIPI D/M-PHY/UniPro, Automotive Ethernet 100/1000BASE-T1, Ethernet 10/100BASE-TX, MDIO, Manchester, NRZ
power, digital voltmeter (DVM), frequency response analysis	power, digital voltmeter (DVM), frequency response analysis	power, advanced spectrum analysis and spectrogram, jitter and noise decomposition, clock data recovery (CDR), I/Q data and RF analysis (R&S®VSE), deembedding, embedding, equalization, PAM-N, TDR/TDT analysis, advanced eye diagram	advanced spectrum analysis and spectrogram, jitter and noise decomposition, real-time deembedding, embedding, equalization, PAM-N, TDR/TDT analysis, I/O data and RF analysis (R&S°VSE), advanced eye diagram
-		see specifications (PD 5216.1640.22)	see specifications (PD 3683.5616.22)
13.3" touchscreen, 1920 × 1080 pixel (Full HD)	for MXO 5 only: 15.6" touchscreen, 1920 × 1080 pixel (Full HD)	15.6" touchscreen, 1920 × 1080 pixel (Full HD)	13.3" touchscreen, 1920 × 1080 pixel (Full HD)
1020 × 1000 pixol (I uli 110)	1020 X 1000 PIXOI (I UII 11D)	1020 A 1000 pixel (Luii 110)	1020 A 1000 placi (i dii 11D)
414 × 279 × 162	MXO 5: 445 × 314 × 154 MXO 5C: 445 × 105 × 405	450 × 315 × 204	441 × 285 × 316
6	MXO 5: 9 MXO 5C: 8.7	10.7	18
-	-	-	-

SPECIFICATIONS IN BRIEF

Number of channels	Specifications in brief		
Bandwidth (-3 dB1	Vertical system		
RSS*TRTB-R2A2 and RSS*TRTB-R2A22 and RSS*TRTB-R2A22 and RSS*TRTB-R2A22 and RSS*TRTB-R2A22 and RSS*TRTB-R2A22 and RSS*TRTB-R2A22 and RSS*TRTB-R2A222 and RSS*TRTB-R2A222 and RSS*TRTB-R2A222 and RSS*TRTB-R2A2222 and RSS*TRTB-R2A22222 and RSS*TRTB-R2A22222 and RSS*TRTB-R2A22222 and RSS*TRTB-R2A22222 and RSS*TRTB-R2A222222 and RSS*TRTB-R2A222222 and RSS*TRTB-R2A2222222222 and RSS*TRTB-R2A222222222222 and RSS*TRTB-R2A22222222222222222222222222222222222	Number of channels	R&S°RTB22, R&S°RTB24	2, 4
Imput impedance 1 MO ± 2% with 9 pF ± 2 pF (meas.) Imput sensitivity max. bandwidth in all ranges 1 mV/div to 5 V/div 1 mV/div to 5 V/div 1 must be sensitivity 5 mV/div 1 1 5% of full scale 1 m/div to 5 V/div 1 1 5% of full scale 1 m/div to 5 V/div 1 1 5% of full scale 1 m/div to 5 mV/div 1 1 5% of full scale 1 m/div to 5 mV/div 1 1 5% of full scale 1 m/div to 5 mV/div 1 1 5% of full scale 1 m/div to 5 mV/div 1 1 5% of full scale 1 1 5% o	Bandwidth (–3 dB)		70 MHz, 100 MHz, 200 MHz, 300 MHz
Imput sensitivity max. bandwidth in all ranges 1 mV/div to 5 V/div offset and position = 0, maximum operating temperature change of ±5°C after self-alignment input sensitivity ≤ 5 mV/div 2 2% of full scale input sensitivity ≤ 5 mV/div 2 2% of full scale 1.5%	Rise time (calculated)	70 MHz, 100 MHz, 200 MHz, 300 MHz	5 ns, 3.5 ns, 1.75 ns, 1.15 ns
offset and position = 0, maximum operating temperature change of ±5°C after self-alignment input sensitivity > 5 mV/div ± 1.5% of full scale input sensitivity > 5 mV/div ± 1.5% of full scale input sensitivity ≥ 5 mV/div ± 1.5% of full scale input sensitivity ≥ 5 mV/div ± 1.5% of full scale input sensitivity ≥ 5 mV/div ± 1.5% of full scale input sensitivity ≥ 5 mV/div ± 1.25 % of full scale input sensitivity ≥ 5 mV/div ± 1.25 % of full scale in the full scale input sensitivity ≥ 5 mV/div ± 1.25 % of full scale in the full scale input sensitivity ≥ 5 mV/div ± 1.25 % of full scale in the full scale input sensitivity ≥ 5 mV/div ± 1.25 % of full scale in the full scale in	nput impedance		1 M Ω ± 2% with 9 pF ± 2 pF (meas.)
Input sensitivity > 5 mV/div	Input sensitivity	max. bandwidth in all ranges	1 mV/div to 5 V/div
input sensitivity ≤ 5 mV/diy	C gain accuracy offset and position = 0, maximum operating temperature change o		perature change of ±5°C after self-alignment
Application system Maximum sampling rate Acquisition memory with segmented memory max. 262 Mpoints in interleaved mode max. 262 Mpoints in interleaved mode max. 262 Mpoints Horizontal system Timebase range Time		input sensitivity > 5 mV/div	± 1.5% of full scale
Acquisition system Maximum sampling rate Acquisition memory Mine segmented memory with segmented memory with segmented memory with segmented memory max. 262 Mpoints With to 500 s/div Trigger system Trigger system Trigger types standard Analysis and measurement functions QuickMeas at the push of a button, measurement values are continuously written onto the waveform Maximum sample rate Acquisition memory Waveform mathematics Acquisition memory Waveform memory Waveform memory Waveform memory Waveform memory Waveform memory Waveform generator Resolution, sample rate Acquisition memory Signal forms frequency ranges sine pulse/rectangle		input sensitivity ≤ 5 mV/div	± 2% of full scale
Maximum sampling rate Acquisition memory with segmented memory with segmented memory with segmented memory max. 262 Mpoints Incidence of the properties of the push of a button, measurement values are continuously written onto the waveform priority (Rescription) Maximum sample rate Acquisition memory Trigger types at the push of a button, measurement values are continuously written onto the waveform priority (Rescription) Maximum sample rate Acquisition memory Maximum sample rate Acquisition memory Maximum sample rate Acquisition memory Maximum sample rate Analysis and measurement Acquisition memory Maximum sample rate Acquisition subtraction, ample rate Acquisition subtraction Diction field in the push of a button, measurement values are continuously written onto the waveform priority (Rescription) Maximum sample rate Acquisition memory Maximum sample rate Acquisition memory Maximum sample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition memory Maximum sample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition memory Maximum sample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition subtraction, ample rate Acquisition memory Maximum sample rate Acquisition memory Acquisition memory Maximum sample rate Acquisition memory Acquisiti	ADC resolution		10 bit, up to 16 bit with high resolution mode
Meximum sampling rate mode Acquisition memory 10 Mpoints, 20 Mpoints in interleaved mode max. 262 Mpoints Horizontal system Inside to 500 s/div Tringer system edge, width, video (PAL, NTSC, SECAM, PAL-M, SDTV 576, IHDTV 2006, HDTV 1080), HDTV 1080, HDTV 1080, HDTV 1080, HDTV 1080, pattern, runt, rise time, fall time serial bus, timeout, line included with serial bus options PC, SPI, UARTIRS 232/RS 422/RS 485, CAN/L MTV 1080, HDTV 1080, pattern, runt, rise time, fall time, serial bus, timeout, line included with serial bus options peak-to-peak voltage, pos. peak, rise time, fall time, serial bus, timeout, line, friequency Analysis and measurement functions at the push of a button, measurement values are continuously written onto the waveform peak-to-peak voltage, pos. peak, rise time, fall time, mean value, RMS value, time, period, frequency Waveform mathematics addition, subtraction, multiplication, division, f. MSC option (R&S*RTB2-BT) 16 (2 logic probes) Meximum sample rate 1.25 Gsample/s Acquisition memory 4 bit, 250 Msample/s Acquisition memory 4 bit, 250 Msample/s Acquisition memory 5 cy 1, 25 V Waveform generator 14 bit, 250 Msample/s Acquisition memory 6 cy 1, 10 mV to 2.5 V (v _w) Published 1, 10 mV to 1, 10 mV to 1, 10 mV to 1, 10 mV to	Acquisition system		
Horizontal system Figer system Fish the push system Figer system Figer system Figer system Fig	Maximum sampling rate		
Horizontal system Timebase range 1 ns/div to 500 s/div Trigger system Horigger types standard PAL-M, SDTV 5761, HDTV 10801, HDTV 108001, Pattern, runt, rise time, fall time serial bus, timeout, line included with serial bus options PC, SPI, UART/RS-232/RS-422/RS-425, CAN/L Analysis and measurement functions DuickMeas at the push of a button, measurement values are continuously written onto the waveform period, frequency addition, subtraction, multiplication, division, fall time, mean value, RMS value, time, period, frequency Waveform mathematics period, frequency addition, subtraction, multiplication, division, fall time, meansurement values are continuously written onto the waveform period, frequency Waveform generator Maximum sample rate 16 [2 logic probes) Maximum sample rate 16 [2 logic probes) Maximum sample rate 17.25 Sample/s Acquisition memory 10 Msample/s Acquisition memory 10 Msample/s Acquisition, sample rate 14 bit, 250 Msample/s Amplitude 16 jag 2, 50 Q 2 22.5 V, ±1,25 V Signal forms frequency ranges isine 0.1 Hz to 5 V (V _{sc}), 10 mV to 2.5 V (V _{sc}) Signal forms frequency ranges isine 0.1 Hz to 10 MHz pulse/rectangle 0.1 Hz to 10 MHz ramp/triangle 0.1 Hz to 1 MHz noise 0.1 Hz to 1 MHz noise 0.1 Hz to 1 MHz sampling rate, memory depth max. 25 MHz sample, 16 kpoints General data Sereen 10.1" WXGA TFT color display (1280 × 800 pin 1815 Mx web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m (18.4 in × 8.66 in × 5.98 in)	Acquisition memory		10 Mpoints, 20 Mpoints in interleaved mode
Timebase range 1 ns/div to 500 s/div Trigger system edge, width, video (PAL, NTSC, SECAM, PAL-M, SDTV 576i, HDTV 120p, HDTV 1080i, HDTV 120p, HDTV 1080i, HDTV 120p, pattern, runt, rise time, fall time serial bus, timeout, line Included with serial bus options PC, SPI, UART/RS-232/RS-422/RS-485, CAN/L Analysis and measurement functions at the push of a button, measurement values are continuously written onto the waveform peak-to-peak voltage, pos. peak, neg. peak, rise time, fall time, mean value, RMS value, time, period, frequency Waveform mathematics addition, subtraction, multiplication, division, F MSO option (R&S*RTB2-B1) 16 (2 logic probes) Waximum sample rate 1.25 Gsample/s Acquisition memory 1.25 Gsample/s Waveform generator 1.25 Gsample/s Acquisition, sample rate 1.25 Oy Msample Amplitude high Z, 50 Ω 20 mV to 5 V (V _m), 10 mV to 2.5 V (V _m) Dic Offset high Z, 50 Ω 20 mV to 5 V (V _m), 10 mV to 2.5 V (V _m) Signal forms frequency ranges sine 0.1 Hz to 1 MHz arbitrary sampling rate, memory depth max. 25 MHz Arbitrary sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data		with segmented memory	max. 262 Mpoints
Trigger tystem Standard PAL_M, SDTV 576i, HDTV 720p, HDTV 1080i, PAL_M, SDTV 576i, HDTV 720p, HDTV 1080i, HDTV 1080p, pattern, runt, rise time, fall time serial bus, timeout, line included with serial bus options PC, SPI, UART/RS-232/RS-422/RS-485, CAN/L Analysis and measurement functions QuickMeas	Horizontal system		
Trigger types standard standar	Timebase range		1 ns/div to 500 s/div
Frigger types shandard shandar	Trigger system		
Analysis and measurement functions OuickMeas at the push of a button, measurement values are continuously written onto the waveform Waveform mathematics MSO option (R&S*RTB2-B1) Digital channels Maximum sample rate Acquisition memory Waveform generator Resolution, sample rate Arplitude Digital channels Analysis and measurement functions Miscontinuously written onto the waveform Maximum sample rate 10 (2 logic probes) 1.25 Gsample/s 10 Msample Waveform generator Resolution, sample rate 14 bit, 250 Msample/s Armplitude Digital channels 14 bit, 250 Msample/s Armplitude Alphic 25 V, ±1.25 V Signal forms frequency ranges sine pulse/rectangle pulse/rectangle noise Arrbitrary Sampling rate, memory depth max. 25 MHz noise max. 25 MHz max. 10 Msample/s, 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix undiple noise Maximum sound level at a distance of 1.0 m 28.3 dB(A) 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	Trigger types	standard	PAL-M, SDTV 576i, HDTV 720p, HDTV 1080i, HDTV 1080p), pattern, runt, rise time, fall time,
QuickMeas at the push of a button, measurement values are continuously written onto the waveform peak-to-peak voltage, pos. peak, neg. peak, rist time, fall time, mean value, RMS value, time, period, frequency addition, subtraction, multiplication, division, RMSQ option (R&S*RTB2-B1) MSQ option (R&S*RTB2-B1) 16 (2 logic probes) Maximum sample rate 1.25 Gsample/s Acquisition memory 1.25 Gsample/s Waveform generator 14 bit, 250 Msample/s Resolution, sample rate 14 bit, 250 Msample/s Amplitude high Z, 50 Ω 20 mV to 5 V (V _{pp}), 10 mV to 2.5 V (V _{pp}) DC offset high Z, 50 Ω ±2.5 V, ±1.25 V Signal forms frequency ranges sine 0.1 Hz to 25 MHz Signal forms frequency ranges sine 0.1 Hz to 10 MHz Arbitrary sampling rate, memory depth max. 25 MHz General data Screen 10.1* WXGA TFT color display (1280 × 800 pix uses over for remote display and operation web server for remote display and operati		included with serial bus options	I ² C, SPI, UART/RS-232/RS-422/RS-485, CAN/LI
QuickMeas at the push of a button, measurement values are continuously written onto the waveform time, fall time, mean value, RMS value, time, period, frequency addition, subtraction, multiplication, division, FMSO option (R&S*RTB2-B1) MSO option (R&S*RTB2-B1) Digital channels Maximum sample rate 1.25 Gsample/s Acquisition memory 10 Msample Waveform generator 14 bit, 250 Msample/s Resolution, sample rate 14 bit, 250 Msample/s Amplitude high Z, 50 Ω 20 mV to 5 V (ν _{pp}), 10 mV to 2.5 V (ν _{pp}) DC offset high Z, 50 Ω ±2.5 V, ±1.25 V Signal forms frequency ranges sine 0.1 Hz to 10 MHz Signal forms frequency ranges sine 0.1 Hz to 10 MHz Interfaces max. 25 MHz max. 25 MHz Arbitrary sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W × H × D 330 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	Analysis and measurement functions		
MSO option (R&S*RTB2-B1) 16 (2 logic probes) Digital channels 1.25 Gsample/s Maximum sample rate 1.0 Msample Waveform generator 4 bit, 250 Msample/s Resolution, sample rate 14 bit, 250 Msample/s Amplitude high Z, 50 Ω 20 mV to 5 V (V _{pp}), 10 mV to 2.5 V (V _{pp}) DC offset high Z, 50 Ω ±2.5 V, ±1.25 V Signal forms frequency ranges sine 0.1 Hz to 25 MHz Signal forms frequency ranges sine 0.1 Hz to 10 MHz pulse/rectangle 0.1 Hz to 1 MHz noise pulse/rectangle 0.1 Hz to 1 MHz noise Arbitrary sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W x H x D 390 mm x 220 mm x 152 mm (15.4 in x 8.66 in x 5.98 in)	QuickMeas		
Digital channels 16 (2 logic probes)	Waveform mathematics		addition, subtraction, multiplication, division, F
Maximum sample rate 1.25 Gsample/s Acquisition memory 10 Msample Waveform generator 14 bit, 250 Msample/s Resolution, sample rate 14 bit, 250 Msample/s Amplitude high Z, 50 Ω 20 mV to 5 V (V _{pp}), 10 mV to 2.5 V (V _{pp}) DC offset high Z, 50 Ω ±2.5 V, ±1.25 V Signal forms frequency ranges sine 0.1 Hz to 25 MHz Signal forms frequency ranges noil Hz to 10 MHz pulse/rectangle 0.1 Hz to 10 MHz noise max. 25 MHz Arbitrary sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W × H × D 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	MSO option (R&S®RTB2-B1)		
Acquisition memory Waveform generator Resolution, sample rate Amplitude bigh Z, 50 Ω condition in the condition is sample and in the condition is sampling rate, memory depth Condition is sample and in the condition is sampling rate, memory depth and in the condition is sampling and operation and interfaces Audible noise Condition is sample and in the condition is sampling and operation are condition in the condition in the condition is sampling and operation are condition and in the condition in the condition is sample and in the condition in the condition is sample and in the condition in the condition is sample and in the condition in the condition is sample and in the condition in	Digital channels		16 (2 logic probes)
Waveform generator Resolution, sample rate Amplitude high Z , 50Ω high Z , 50Ω 20 mV to $5 \text{ V (V}_{pp})$, $10 \text{ mV to } 2.5 \text{ V (V}_{pp})$ DC offset high Z , 50Ω ±2.5 V, ±1.25 V Signal forms frequency ranges sine 0.1 Hz to 25 MHz pulse/rectangle 0.1 Hz to 10 MHz ramp/triangle noise max. 25 MHz Arbitrary sampling rate, memory depth max. 10 Msample/s , 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix use for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W × H × D 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	Maximum sample rate		1.25 Gsample/s
Resolution, sample rate Amplitude high Z, 50Ω DC offset high Z, 50Ω bigh Z, 50Ω consider the pulse/rectangle pulse/rectangle noise formax. 20 mV to 20 mV t	Acquisition memory		10 Msample
Amplitude high Z, 50Ω 20 mV to $5 \text{ V (V}_{pp})$, $10 \text{ mV to } 2.5 \text{ V (V}_{pp})$ DC offset high Z, 50Ω $\pm 2.5 \text{ V}$, $\pm 1.25 \text{ V}$ Signal forms frequency ranges sine 0.1 Hz to 25 MHz pulse/rectangle 0.1 Hz to 10 MHz ramp/triangle 0.1 Hz to 10 MHz noise max. 25 MHz noise max. 25 MHz sampling rate, memory depth max. 10 Msample/s , 16 kpoints General data Screen 10.1" WXGA TFT color display ($1280 \times 800 \text{ pix}$ USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) $390 \text{ mm} \times 220 \text{ mm} \times 152 \text{ mm}$ ($15.4 \text{ in} \times 8.66 \text{ in} \times 5.98 \text{ in}$)	Waveform generator		
DC offset $0.1 \text{ Hz} \text{ to } 25 \text{ W} + 1.25 \text{ V}$ Signal forms frequency ranges $0.1 \text{ Hz} \text{ to } 25 \text{ MHz}$ pulse/rectangle $0.1 \text{ Hz} \text{ to } 10 \text{ MHz}$ ramp/triangle $0.1 \text{ Hz} \text{ to } 1 \text{ MHz}$ noise $0.1 \text{ Hz} \text{ to } 1 \text{ MHz}$ noise $0.1 \text{ Hz} \text{ to } 1 \text{ MHz}$ max. 25 MHz Arbitrary $0.1 \text{ Hz} \text{ to } 1 \text{ MHz}$ sampling rate, memory depth $0.1 \text{ Hz} \text{ to } 1 \text{ Msample/s}$, 16 kpoints General data Screen $0.1 \text{ Hz} \text{ to } 1 \text{ Msample/s}$, 16 kpoints USB host with MTP, USB device, LAN, web server for remote display and operation operation $0.1 \text{ Hz} \text{ to } 1 \text{ Mz}$ Audible noise $0.1 \text{ Mz} \text{ max} ma$	Resolution, sample rate		14 bit, 250 Msample/s
Signal forms frequency ranges sine pulse/rectangle 0.1 Hz to 25 MHz pulse/rectangle 0.1 Hz to 10 MHz ramp/triangle noise max. 25 MHz max. 25 MHz sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) W × H × D 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	Amplitude	high Z, 50 Ω	20 mV to 5 V (V_{pp}), 10 mV to 2.5 V (V_{pp})
pulse/rectangle ramp/triangle noise noise max. 25 MHz max. 10 Msample/s, 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W × H × D 0.1 Hz to 10 MHz 0.1 Hz to 1 MHz 0.1 Hz to 10 MHz 0.1 Hz to 1 MHz 0.1 Hz to 10 MHz 0.1 Hz to 1 MHz 0.	DC offset	high Z, 50 Ω	±2.5 V, ±1.25 V
ramp/triangle noise max. 25 MHz max. 10 Msample/s, 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)	Signal forms frequency ranges	sine	0.1 Hz to 25 MHz
noise max. 25 MHz Arbitrary sampling rate, memory depth max. 10 Msample/s, 16 kpoints General data Screen 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions W × H × D 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)		pulse/rectangle	0.1 Hz to 10 MHz
Arbitrary General data Screen Interfaces Audible noise Dimensions Sampling rate, memory depth max. 10 Msample/s, 16 kpoints 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation 28.3 dB(A) 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)		ramp/triangle	0.1 Hz to 1 MHz
General data Screen 10.1" WXGA TFT color display (1280 × 800 pix USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) W × H × D 390 mm × 220 mm × 152 mm (15.4 in × 8.66 in × 5.98 in)		noise	max. 25 MHz
Screen 10.1" WXGA TFT color display (1280 \times 800 pix Interfaces USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) 390 mm \times 220 mm \times 152 mm (15.4 in \times 8.66 in \times 5.98 in)	Arbitrary	sampling rate, memory depth	max. 10 Msample/s, 16 kpoints
Interfaces USB host with MTP, USB device, LAN, web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions $W \times H \times D$ $390 \text{ mm} \times 220 \text{ mm} \times 152 mm$	General data		
Interfaces web server for remote display and operation Audible noise maximum sound level at a distance of 1.0 m 28.3 dB(A) Dimensions $W \times H \times D$ $390 \text{ mm} \times 220 \text{ mm} \times 152 $	Screen		10.1" WXGA TFT color display (1280 × 800 pixe
Dimensions $W \times H \times D$ 390 mm \times 220 mm \times 152 mm (15.4 in \times 8.66 in \times 5.98 in)	Interfaces		· · · · · · · · · · · · · · · · · · ·
Dimensions $W \times H \times D$ (15.4 in \times 8.66 in \times 5.98 in)	Audible noise	maximum sound level at a distance of 1.0 m	28.3 dB(A)
Weight 2.5 kg (5.5 lb)	Dimensions	$W \times H \times D$	
	Weight		2.5 kg (5.5 lb)

[►] For more information, see the R&S®RTB 2 specification document (PD 3673.0734.22) available under www.rohde-schwarz.com.

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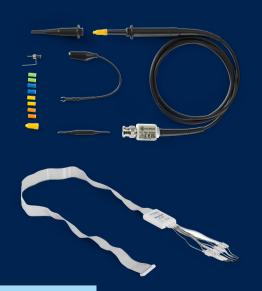
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Choose your bandwidth upgrade	, , , , , , , , , , , , , , , , , , ,	
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MSO, set of 2 logic probes, 300 MHz (+ 16 digital channels)	R&S®RTB2-B1	1801.8421.02
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CAN/LIN serial triggering and decoding	R&S®RTB-K3	part of R&S®RTB2-PK1
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Choose your additional probes		
Single-ended passive probes		
300 MHz, 10:1, 10 MΩ, 400 V, 12 pF	R&S®RT-ZP03S	1803.1001.02
500 MHz, 10 MΩ, 10:1, 300 V, 10 pF, 5 mm	R&S®RT-ZP05S	1333.2401.02
500 MHz, 10 MΩ, 10:1, 400 V, 9.5 pF	R&S®RT-ZP10	1409.7550.00
38 MHz, 1 MΩ, 1:1, 55 V, 39 pF	R&S®RT-ZP1X	1333.1370.02
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400 MHz, 100:1, 50 MΩ, 1000 V, 7.5 pF	R&S®RT-ZH10	1409.7720.02
High voltage probes: passive		
400 MHz, 1000:1, 50 MΩ, 1000 V, 7.5 pF	R&S®RT-ZH11	1409.7737.02
Current probes		
20 kHz, AC/DC, 10 A/1000 A	R&S®RT-ZC02	1333.0850.02
100 kHz, AC/DC, 30 A	R&S®RT-ZC03	1333.0844.02
10 MHz, AC/DC, 150 A	R&S®RT-ZC10	1409.7750.02
100 MHz, AC/DC, 30 A	R&S®RT-ZC20	1409.7766.02
120 MHz, AC/DC, 5 A	R&S®RT-ZC30	1409.7772.02
Power supply for current probes	R&S®RT-ZA13	1409.7789.02
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¹⁾ Oscilloscope is MSO-ready.

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