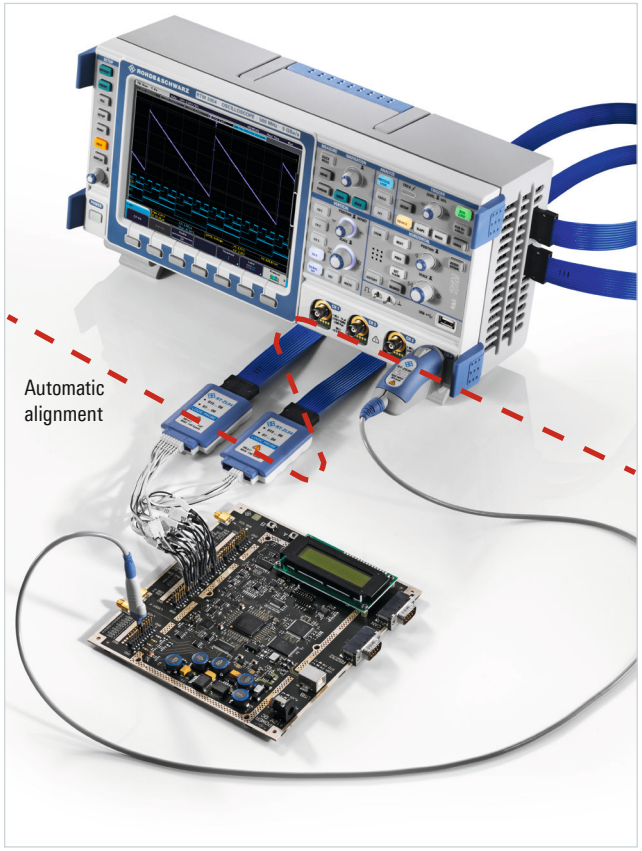
R&S®RTM-B1 mixed signal option

Fast and precise testing of embedded designs



▷ For more information, see www.rohde-schwarz.com/product/rtmb1

The perfect choice

General debugging of embedded designs

Protocol traffic analysis

Key specifications of the R&S®RTM-B1

Channels	16 divided over two logic probes
Sampling rate	5 Gsample/s (max.)
Memory depth	20 Msample (max.), 460 Msample segmented memory (optional)
Max. input frequency	400 MHz (meas.)
Max. input voltage	±40 V (V_p)
Min. input voltage swing	500 mV (V_{pp}) (meas.)
Threshold level range	±8 V in 25 mV steps
Channel deskew range	±200 ns
Channel-to-channel skew	< 200 ps (meas.) for same vertical settings on the channels
Trigger types	edge, width, pattern, serial bus (I^2C/SPI, UART/RS-232/RS-422/RS-485, CAN, LIN, AUDIO)
Automatic measurements	positive/negative pulse width, period, frequency, burst width, delay, phase, positive/negative duty cycle, positive/negative pulse count, rising/falling edge count

Find timing errors fast and reliably

- Class leading 5 Gsample/s for 200 ps time resolution
- Automatic alignment between analog and digital channels
- Noise rejection with selectable comparator hysteresis

Full resolution, even for long sequences

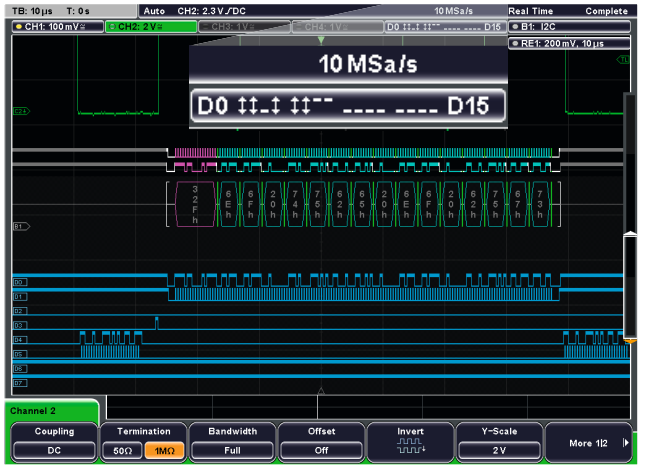
- Class leading 20 Msample memory for full resolution even far from the trigger point
- Class leading 460 Msample segmented memory
- Class leading 45 000 segments
- Maintain highest time resolution within the segment with up to 5 Gsample/s

Better overview and flexibility

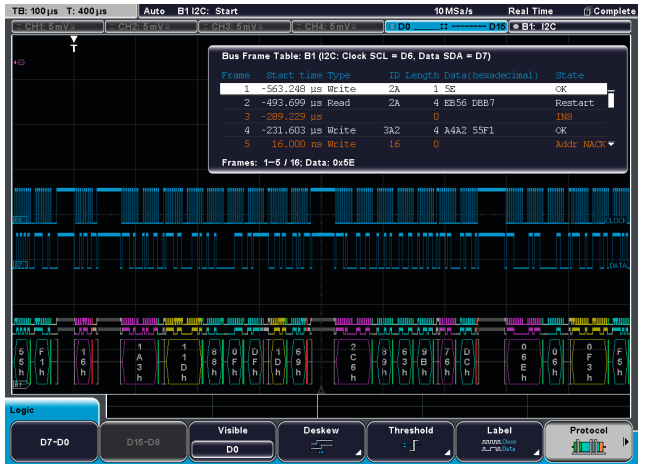
- Easy upgrade via option key to a mixed signal oscilloscope with 16 digital channels
- VirtualScreen doubles the usable screen area
- Everything at a glance: activity display for detailed status overview

Direct insight into the decoded data

- Combinable with serial triggering and decoding options
- Automatic measurements also on digital channels



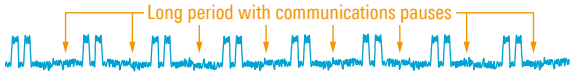
Class leading MSO that does not share memory with analog channels: 400 MHz with 20 Msample at 5 Gsample/s; zoomed: activity view with ⇕ toggle; ⁻ high; _ low.



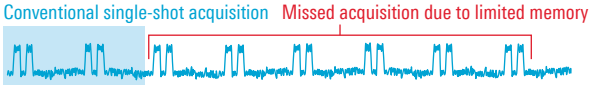
Digital communications using serial protocol triggering and decoding options (see table for a wide range of protocols).

Acquisition of long sequences with segmented memory option

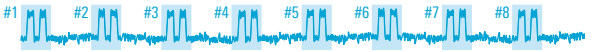
Protocol-based signal with communications pauses



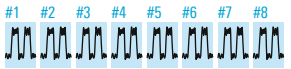
Single-shot acquisition recording only few pulses with plenty of inactivity



Acquisition of activity using the segmented memory

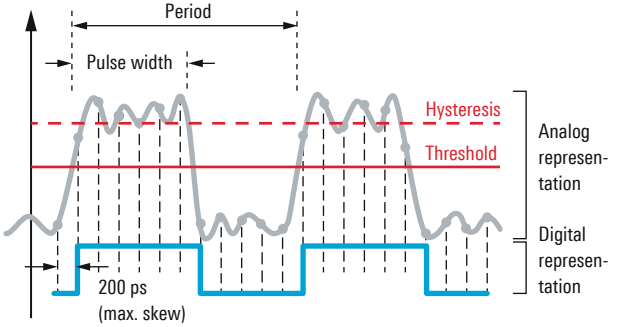


Analysis and display of each segment using the history function



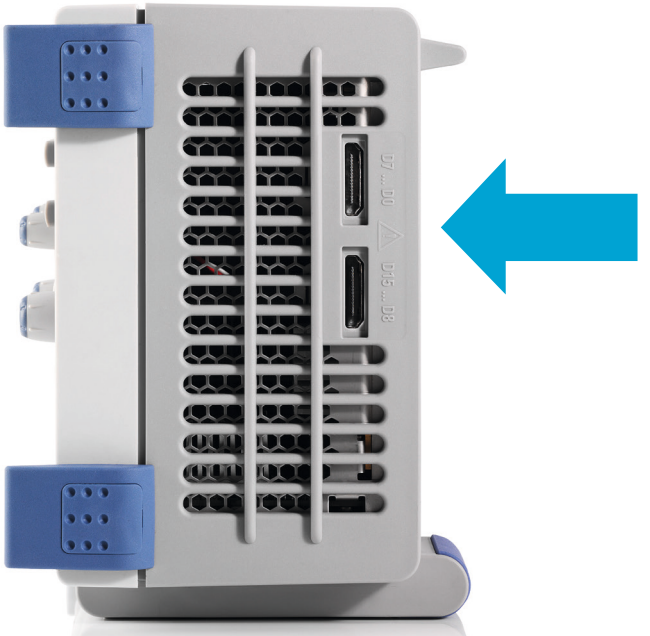
At a glance

High sampling rate and minimal channel skew for perfect horizontal alignment. Deep memory of 20 Msample allows the highest sampling rates to be maintained also far from the trigger point. Adjustable hysteresis for easy noise rejection



Recommended for use with

Designation	Type
Digital oscilloscope, base unit	R&S®RTM2000
Software options	
I²C/SPI serial triggering and decoding	R&S®RTM-K1
UART/RS-232/RS-422/RS-485 serial triggering and decoding	R&S®RTM-K2
CAN/LIN serial triggering and decoding	R&S®RTM-K3
I²S/LJ/RJ/TDM serial triggering and decoding	R&S®RTM-K5
History and segmented memory	R&S®RTM-K15



R&S®RTM oscilloscopes: prepared for logic analysis. Installation is a simple on-site process without shipping back the instrument.

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PD 3607.2461.32 | Version 01.00 | July 2015 (sk)

R&S®RTM-B1 mixed signal option
Data without tolerance limits is not binding | Subject to change

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