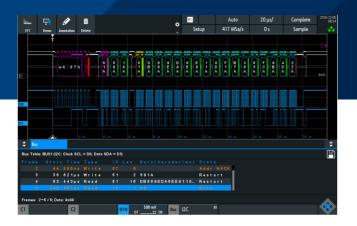
Make ideas real



R&S®RTx-B1: MIXED SIGNAL ANALYSIS

For R&S®RTB2000, R&S®RTM3000 and R&S®RTA4000 oscilloscopes



Customize your oscilloscope with mixed signal analysis

The integrated R&S®RTx-B1 MSO options turn Rohde & Schwarz oscilloscopes into fast, precise and easy-to-use mixed signal oscilloscopes (MSO). MSOs are hybrid test instruments that combine the measurement capabilities of digital oscilloscopes with the analysis capabilities of logic analyzers.

More signal details

With a sample rate of up to 5 Gsample/s, the R&S®RTx-B1 option provides a maximum time resolution of 200 ps for the digital channels. This sample rate is available over the entire memory depth. As a result, the MSO option is even capable of detecting critical events such as narrow, widely separated glitches.

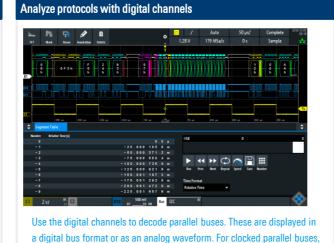
Key specifications	R&S*RTB2000	R&S*RTM3000 / R&S*RTA4000
Digital channels	16 (2 logic probes)	16 (2 logic probes)
Arrangement of input channels	Arranged in two logic probes with eight channels ear inputs – no consumption of analog channels	ch, assignment of the logic probes to separate logic
Max. input frequency	300 MHz	400 MHz
Sampling rate (two logic probes)	1.25 Gsample/s	2.5 Gsample/s
Sampling rate (one logic probe)	1.25 Gsample/s	5 Gsample/s
Memory depth (two logic probes)	10 Msample	40 Msample / 100 Msample
Memory depth (one logic probe)	10 Msample	80 Msample / 200 Msample

Your benefit	Features
Use in embedded design	The oscilloscope captures and analyzes signals from analog and digital components of an embedded design — synchronously and time-correlated to each other. For example, the delay between input and output of an A/D converter can be conveniently determined using the cursor measurements
Analysis of serial protocols with digital channels	The protocols of serial interfaces such as I ² C, SPI, UART/RS-232, CAN and LIN can also be triggered and decoded using the R&S®RTx-B1 digital channels and the appropriate serial protocol options

Precise triggering on signal events

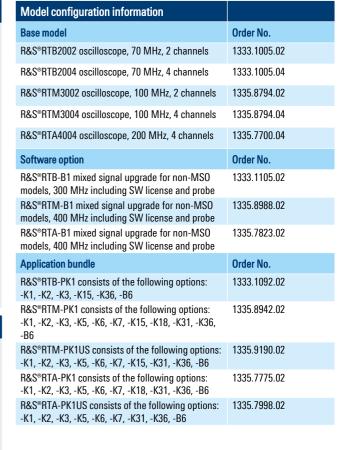
The digital channel resolution of up to 200 ps makes these channels a precise trigger source. The R&S®RTx-B1 option offers numerous trigger types for debugging and analysis, such as edge, width and pattern. These triggers can be combined with holdoff conditions.

Straightforward display of digital signals And South Straightforward display of digital signals And South Straightforward display of digital signals And South Straightforward display of digital signals The R&S*RTx-B1 option supports 16 digital channels and simultaneous decoding of up to four parallel buses. Each bus is represented by a line on the edge of the screen.



the decoded contents can also be displayed in a table. In addition, you

can use the digital channels of the R&S®RTx-B1 option to decode serial



Commissional State Subsect 18th 18th 200

No consumption of analog channels

(4 analog channels)

R&S*RTB2000 / RTM3000 / RTA4000 + 1 MS

+ 1 MSO option
(16 digital channels)

The typical MSO configuration consists of 4 analog and 16 digital channels. 16 digital channels can be retrofitted to the four-channel R&S*RTB2000, R&S*RTM3000 and R&S*RTA4000 base units via the MSO interface at a very attractive price and do not consume any analog channels.



interface protocols such as SPI and I²C.

ensures high signal fidelity and low loading of the test points.

input impedance combined with low input capacitance of 100 k Ω II 4 pf

DISTRAME S.A. - Parc du Grand Troyes - Quartier Europe Centrale - 40, rue de Vienne - 10300 SAINTE-SAVINE Tél. : +33 (0)3 25 71 25 83 - Fax : +33 (0)3 25 71 28 98 - E-mail : infos@distrame.fr - Site internet : www.distrame.fr