# R&S®RTM3000 Oscilloscopes

# Power of 10



➢ For more information, visit www.rohde-schwarz.com/catalog/RTM3000

he perfect choice for					
R&D power integrity debugging	R&D serial bus debugging				
Manufacturing testing and repair	Education				

	Key specifications	
	Bandwidth	100 MHz, 200 MHz, 350 MHz, 500 MHz, 1 GHz
	Channels	2 or 4 analog channels + 16 digital channels (with MSO option)
	ADC	10-bit
	Max. sampling rate	5 Gsample/s (interleaved), 2.5 Gsample/s (all channels)
	Memory depth	40 Msample, 80 Msample (interleaved), 400 Msample in history mode (with R&S*RTM-K15 option)
	Display	10.1" capacitive touch, 1280 x 800 resolution
	Boot time	10 seconds
	Connectivity	LAN, USB host/device, fast display over Ethernet
	Upgradable	bandwidth, protocol trigger and decode, MSO, pattern generator and arbitrary waveform generator
	Probe interface	probe power and auto configuration
	Warranty	standard 3-year

#### See more of your signal with the power of 10

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

- Large 10.1" capacitive touchscreen
- Rohde & Schwarz designed 10-bit ADC
- 40 MSample (all channels) and 80 MSample (interleaved) acquisition memory depth
- 10 second boot time

Your benefit	Features
Easier to see and collaborate. Faster to operate and interpret results	10.1" capacitive touchscreen with 1280 x 800 resolution, grid annotation, split window, SmartGrid
Capture more time at full bandwidth	5 Gsample/s max sample rate with up to 80 Msample memory, 12 horizontal divisions, 400 Msample in history mode
See small signal detail in the presence of large signals	10-bit ADC, 1280 x 800 pixel display resolution
Start working sooner	10 second boot time
Troubleshoot and solve a wide range of problems with one instrument	8 instruments in one: oscilloscope, logic analyzer, spectrum analyzer, protocol analyzer, arbitrary waveform generator, pattern generator, counter, digital voltmeter



## **Power highlights**

- Analyze the input, output and transfer function of switched-mode power supplies
- Measurement wizard for fast results
- Simple and fast documentation
- Analyze harmonic current in line with conventional EN, MIL and RTCA standards

#### **Ordering information**

### Step 1: Choose your oscilloscope model Two-channel model: R&S®RTM3002 Four-channel model: R&S®RTM3004

Included: All models include R&S®RT-ZP05S passive probes for each channel, a power cord and a 3-year warranty.

Languages supported: English, German, French, Spanish, Italian, Portuguese Czech, Polish, Russian, simplified and traditional Chinese, Korean and Japanese.

Step 2: Choose your bandwidth option			
100 MHz bandwidth	standard for two-channel and four- channel models		
200 MHz bandwidth	R&S°RTM-B222 for R&S°RTM3002 R&S°RTM-B242 for R&S°RTM3004		
350 MHz bandwidth	R&S°RTM-B223 for R&S°RTM3002 R&S°RTM-B243 for R&S°RTM3004		
500 MHz bandwidth	R&S°RTM-B225 for R&S°RTM3002 R&S°RTM-B245 for R&S°RTM3004		
1 GHz bandwidth	R&S°RTM-B2210 for R&S°RTM3002 R&S°RTM-B2410 for R&S°RTM3004		

Step 3: Choose your options and accessories			
Software options	ftware options		
Triggering and decoding	R&S°RTM-K1 I <sup>2</sup> C/SPI R&S°RTM-K2 UART/RS-232/422/485 R&S°RTM-K3 CAN/LIN R&S°RTM-K5 I <sup>2</sup> S audio R&S°RTM-K6 MIL-STD-1553 R&S°RTM-K7 ARINC-429		
History and segmented memory	R&S®RTM-K15 (400 Msample)		
Spectrum analysis	R&S®RTM-K18		
Power analysis	R&S®RTM-K31		
Application bundle	R&S®RTM-PK1 (includes R&S®RTM-K1, - K2, -K3, -K5, -K6, -K7, -K15, -K18, -K31, - B6)		
Hardware options	rdware options		
R&S®RTM-B1 mixed signal upgrade for non-MSO models, 400 MHz			
R&S®RTM-B6 arbitrary waveform generator			
Accessories			
R&S®ZZA-RTM3K rackmount kit			

instruments in one	
Oscilloscope	standard
Logic analyzer (16-channel MSO)	R&S°RTA-B1MSO option, includes cabling, lead sets and grabbers
Protocol analyzer	options for different serial buses
Spectrum analyzer	R&S°RTA-K18 option with DDC and spectrogram
Integrated digital voltmeter	standard
Trigger counter	standard
Waveform generator (25 MHz)	R&S°RTA-B6 option
Pattern generator (4-bit)	R&S°RTA-B6 option

Step 4: Choose your probes (more available)			
Power rail probe	Туре		
2.0 GHz, 1:1, 50 k $\Omega$ , ±0.85 V, ±60 V offset, Rohde & Schwarz probe interface	R&S*RT-ZPR20		
Active single-ended probes			
1.0 GHz, 1 M $\Omega$ , Rohde & Schwarz probe interface	R&S°RT-ZS10E		
Active differential probes			
1.0 GHz, 1 MΩ, R&S®ProbeMeter, micro button, Rohde & Schwarz probe interface	R&S°RT-ZD10		
Current probes			
100 MHz, AC/DC, 0.1 V/A, 30 A (RMS), Rohde & Schwarz probe interface	R&S°RT-ZC20B		
High-Voltage differential probes			
100 MHz, 1000:1/100:1, 40 M $\Omega$ , 6000 V (pk), 1000 V CATIII, Rohde & Schwarz probe interface	R&S*RT-ZHD60		

Rohde & Schwarz GmbH & Co. KG | Europe, Africa, Middle East +49 89 4129 12345 | North America 1 888 TEST RSA (1 888 837 87 72) Latin America +1 410 910 79 88 | Asia Pacific +65 65 13 04 88 | China +86 800 810 82 28 / +86 400 650 58 96 www.rohde-schwarz.com | customersupport@rohde-schwarz.com

R&S® is a registered trademark of Rohde & Schwarz GmbH & Co. KG | PD 3607.7486.32 | Version 01.00 | January 2018 (pw) Trade names are trademarks of the owners | R&S®RTM3000 Digital Oscilloscopes | Data without tolerance limits is not binding Subject to change | © 2018 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany

Thurlby Thandar Instrument Distribution
Clabo Road, Huntingdon, PE29 7DR, UK +44 (0)1480 412 451

