ROHDE&SCHWARZ
Make ideas real

R&S®RTE1000 DIGITAL OSCILLOSCOPE

Truly uncompromised in performance

HD 16bit

Multi Domain

Truly uncompromised in performance

More reliable measurements, more tools and fast results, more fun to use – that's the R&S®RTE oscilloscope. From embedded design development to power electronics analysis to general debugging, the R&S®RTE offers quick solutions for everyday T&M tasks.

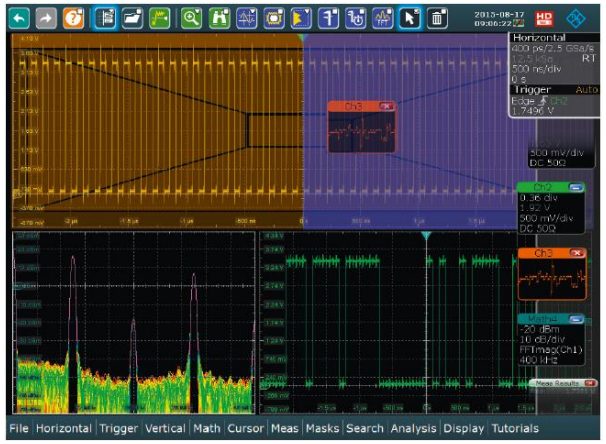
The perfect choice for

Designing and debugging embedded systems	Signal validation
EMI debugging during daily development	Power integrity analysis

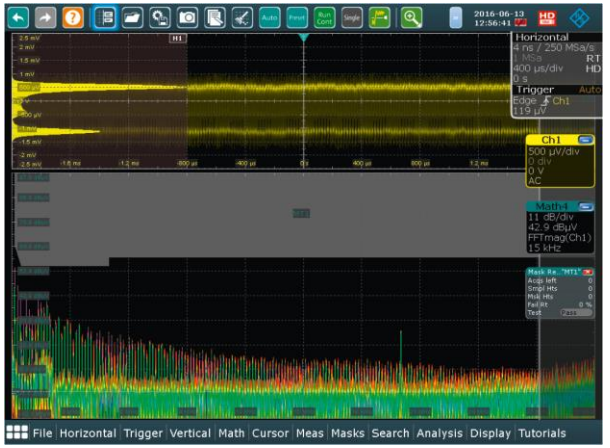
Key specifications	
Bandwidth	200 MHz, 300 MHz, 500 MHz, 1 GHz, 1.5 GHz, 2 GHz
Channels	2/4
Max. sample rate	5 Gsample/s
Max. memory	200 Msample (standard)
Mixed signal option	16 channels, 5 Gsample/s
Acquisition rate	> 1 000 000 waveforms/s
Vertical resolution	up to 16 bits (standard)
Mixed signal option	16 channels, 400 MHz, 5 Gsample/s, 100 Msample/channel

Your benefit	Features
No trade-offs	► Longest signal sequences (200 Msample memory depth) at highest resolution (5 Gsample/s sampling rate) ► Find signal faults quickly: more than 1 000 000 waveforms/s ► Most precise results: 16-bit vertical resolution in high definition mode
High-resolution 10.4'' touchscreen	► Drag & drop signals and measurement results ► Results in only two clicks thanks to the powerful toolbar ► Convenient tools such as QuickMeas, fingertip zoom and undo/redo
Multichannel spectrum analysis	► Analysis of up to four signals in parallel ► Correlation of time and frequency signals ► Spectrogram: display changes in power and frequency over time ► Outstanding RF performance: high dynamic range and low inherent noise

For price and more information:
http://www.rohde-schwarz.com/product/RTE

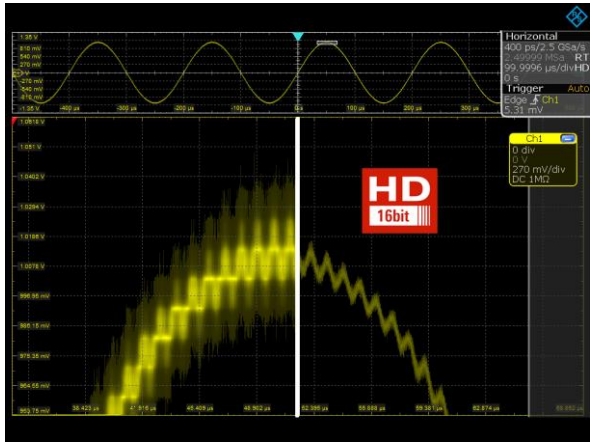


You can drag & drop waveforms and result windows on the screen. The SmartGrid function helps you flexibly arrange multiple diagrams on the screen.

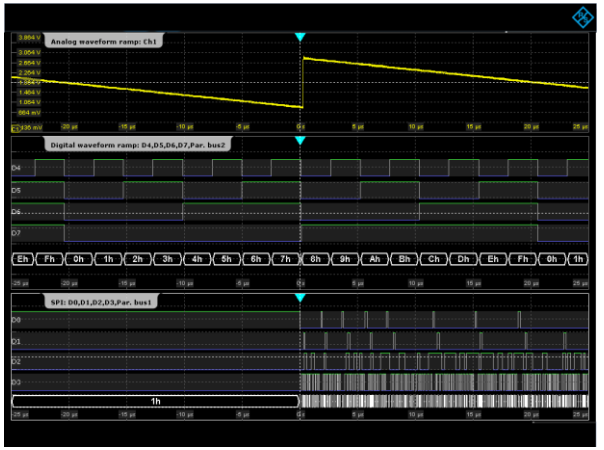


R&S®RTE oscilloscopes come with built-in spectrum analysis for up to four signals in parallel. Results can be correlated in the time and frequency domain. Analysis functions such as spectrogram (with R&S®RTE-K18 option), mask test and peak list are available.

Popular options	
Hardware options (plug-in)	**Type**
Mixed signal option, 400 MHz, 16 digital channels	R&S®RTE-B1
SSD hard disk	R&S®RTE-B18
Serial triggering and decoding	
Trigger and Decode Bundle	R&S®RTE-TDBNDL
I²C/SPI serial decoding	R&S®RTE-K1
UART/RS-232/RS-422/RS-485 serial decoding	R&S®RTE-K2
CAN/LIN serial triggering and decoding	R&S®RTE-K3
Analysis	
Spectrum analysis	R&S®RTE-K18
Power analysis	R&S®RTE-K31



The high definition mode (HD mode) increases the vertical resolution of the R&S®RTE to up to 16 bit. This results in sharper waveforms, showing signal details that would otherwise be masked by noise.



With the R&S®RTE-B1 option, every R&S®RTE can be turned into a mixed signal oscilloscope with 16 digital channels. This example shows the ramp signal of a 4-bit ADC with analog and digital channels correlated to an SPI bus that controls the ADC.

Broad range of probes			
Active		**Multifunctional**	
Single-ended	Differential	High-voltage	Current
			
Passive			EMC near-field
Standard	Special		
			

Rohde & Schwarz offers a broad range of oscilloscope probes for different applications. For more information, see the product brochure: Digital oscilloscopes from Rohde & Schwarz, Probes and accessories (PD 3606.8866.12)

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