

# Scope of the Art

## RTM2000示波器产品介绍

RSCN



**ROHDE & SCHWARZ**

# Scope of the Art

## The R&S®RTM2000



# The R&S®RTM2000

## 主要新功能:

- 1 强大的MSO功能
- 1 350 MHz, 500 MHz 型号
- 1 高达20M存储
- 1 虚拟屏幕观测更多信号
- 1 触发输出
- 1 新触发类型：上升/下降时间
- 1 最多同时解码4路总线
- 1 更优秀的远程控制性能

|                | RTM2000                        |
|----------------|--------------------------------|
| 带宽             | 350 MHz, 500 MHz               |
| 模拟通道           | 2/4 Channels                   |
| 采样率            | 2,5 GSa/s, 5 GSa/s interleaved |
| 存储深度           | 10 MSa, 20 MSa interleaved     |
| MSO选件 (RTM-B1) |                                |
| 采样率            | 2,5 GSa/s                      |
| 记录长度           | 10 MSa per Channel             |



# Ever wished for a better bench scope?

## The R&S®RTM: Turn on. Measure

- 1 See signals where others see noise.
- 1 Don't trade signal detail for memory depth.
- 1 Find problems that others miss.

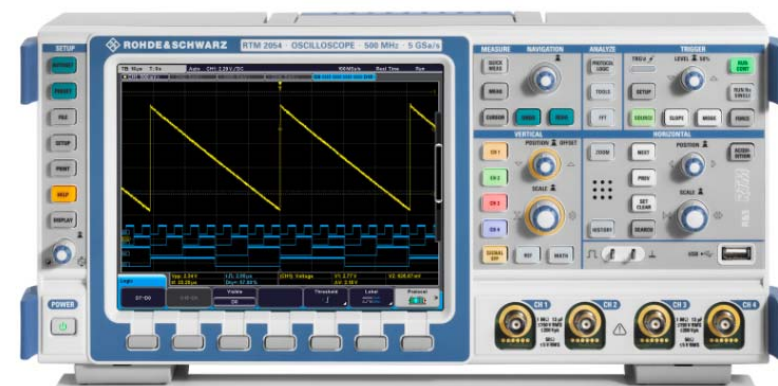
### Reliable Results

- 1 Finish your measurements before others get started.
- 1 Set up a mask test in seconds.
- 1 Look back in time with the history mode.

### Fast Results

- 1 Fault tolerant with undo/redo.
- 1 VirtualScreen: Two screens in one.
- 1 Quick access to all functions.

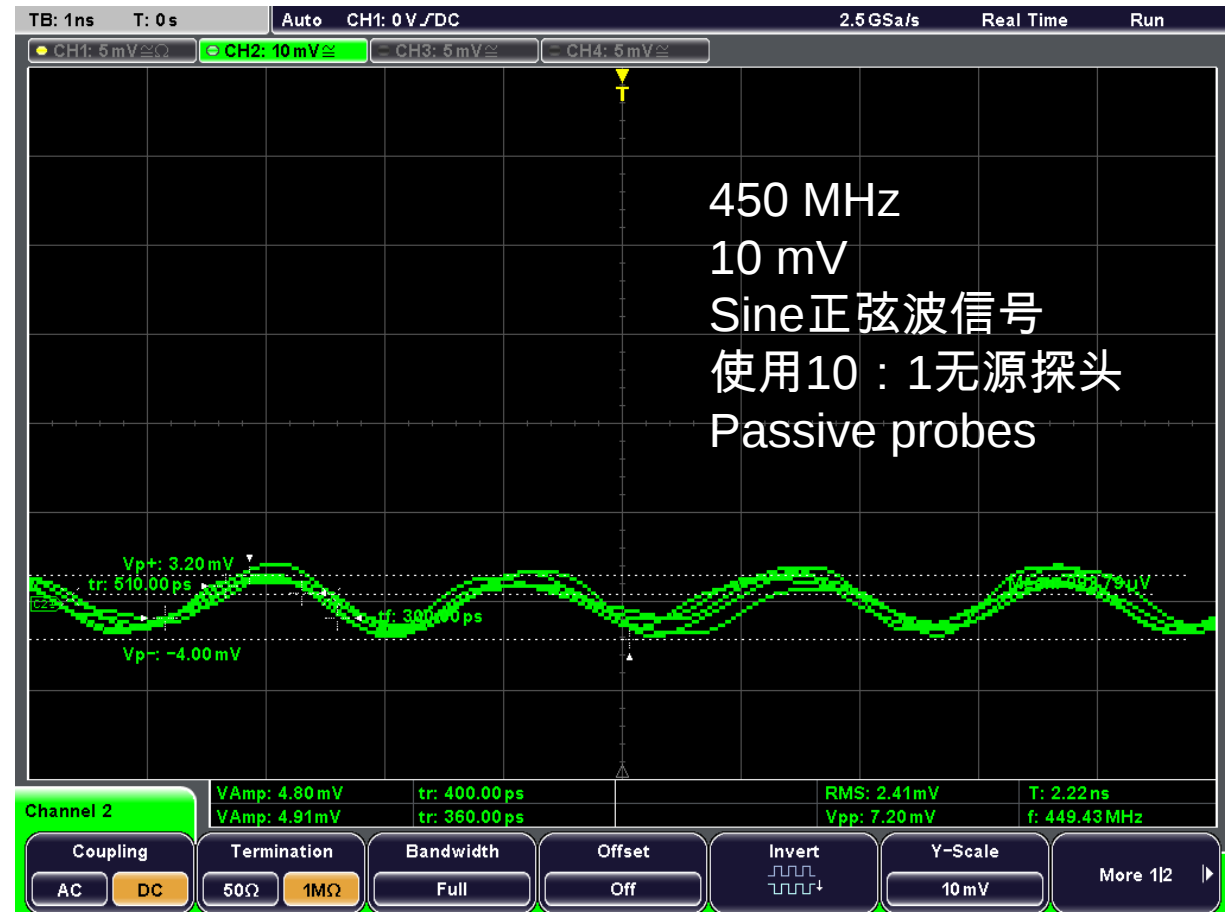
### Ease-of-use



# R&S®RTM

## 优异的模拟前端性能

- 1 最小输入灵敏度1 mV/div:
  - 1 无放大
  - 1 无带宽限制
- 1 优秀的触发性能

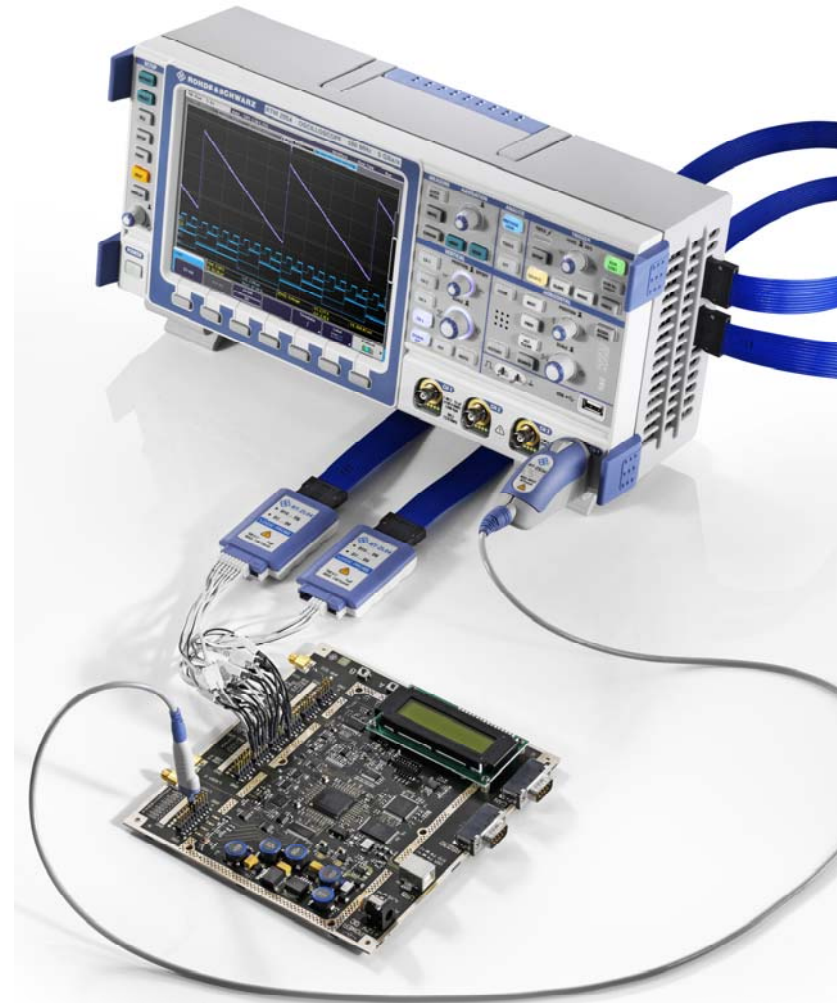




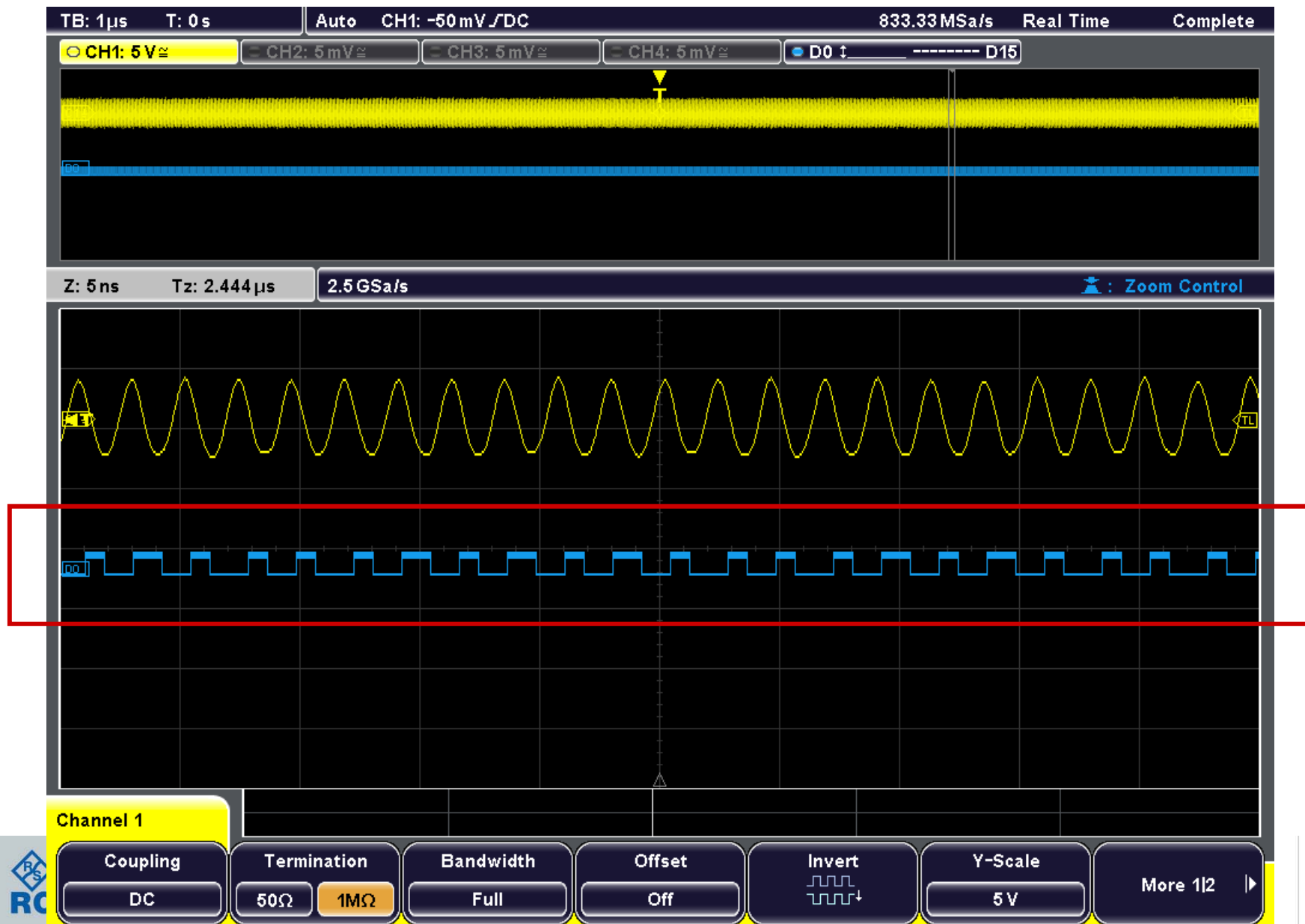
# R&S®RTM2000 MSO 选件 RTM-B1

## MSO主要新功能:

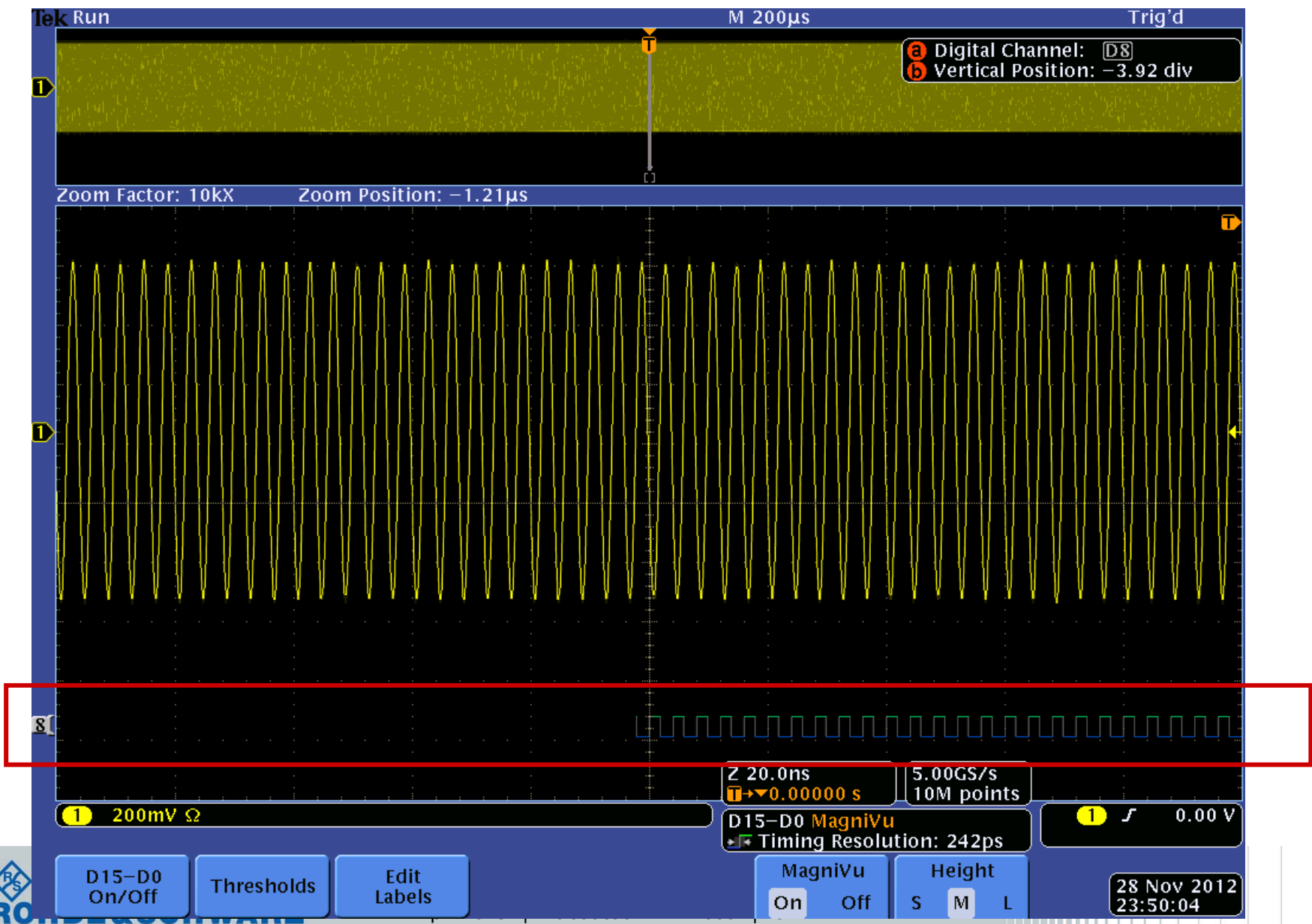
- 1 400 MHz 切换频率探头
- 1 每通道 2,5 GSa/s采样率
- 1 每通道10 MSa
- 1 全部存储长度内使用长存储
- 1 使用模拟和数字通道信号，最高做四路总线的解码
- 1 虚拟屏幕观测更多信号
- 1 通道活动状态查看功能
- 1 输入键值，增添逻辑探头即可升级为MSO，无宕机。



# R&S®RTM2000: MSO 在10M存储中提供2,5 GSa/s 高采样



# TEK DPO: MS0通道只提供标准500 MSa/s





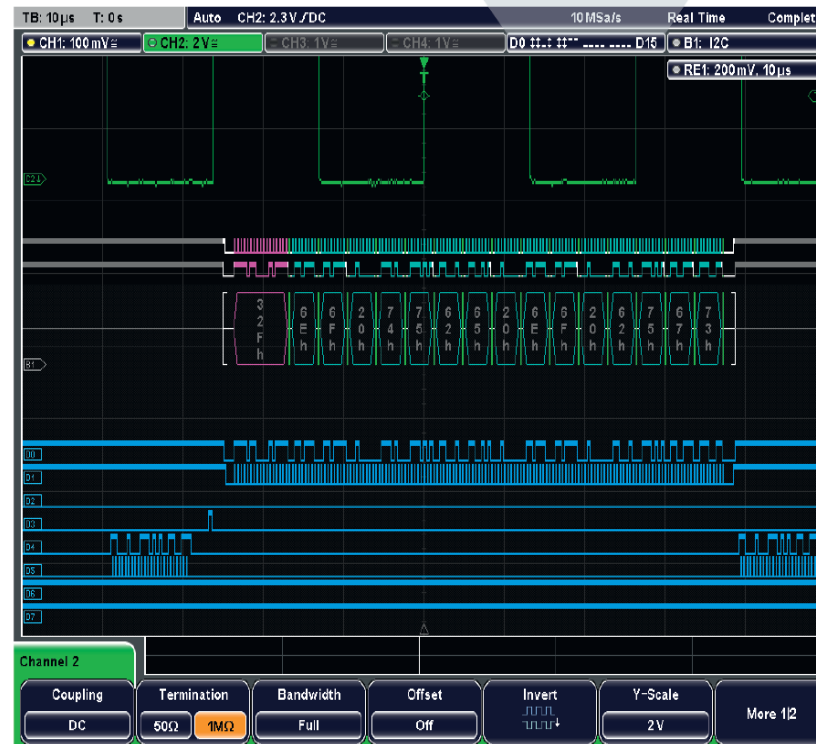
# R&S®RTM

## 活动通道查看功能Activity View

通道信号状态一目了然:  
Activity View

- 1 高/低/切换显示
- 1 包含所有数字通道

Activity View →

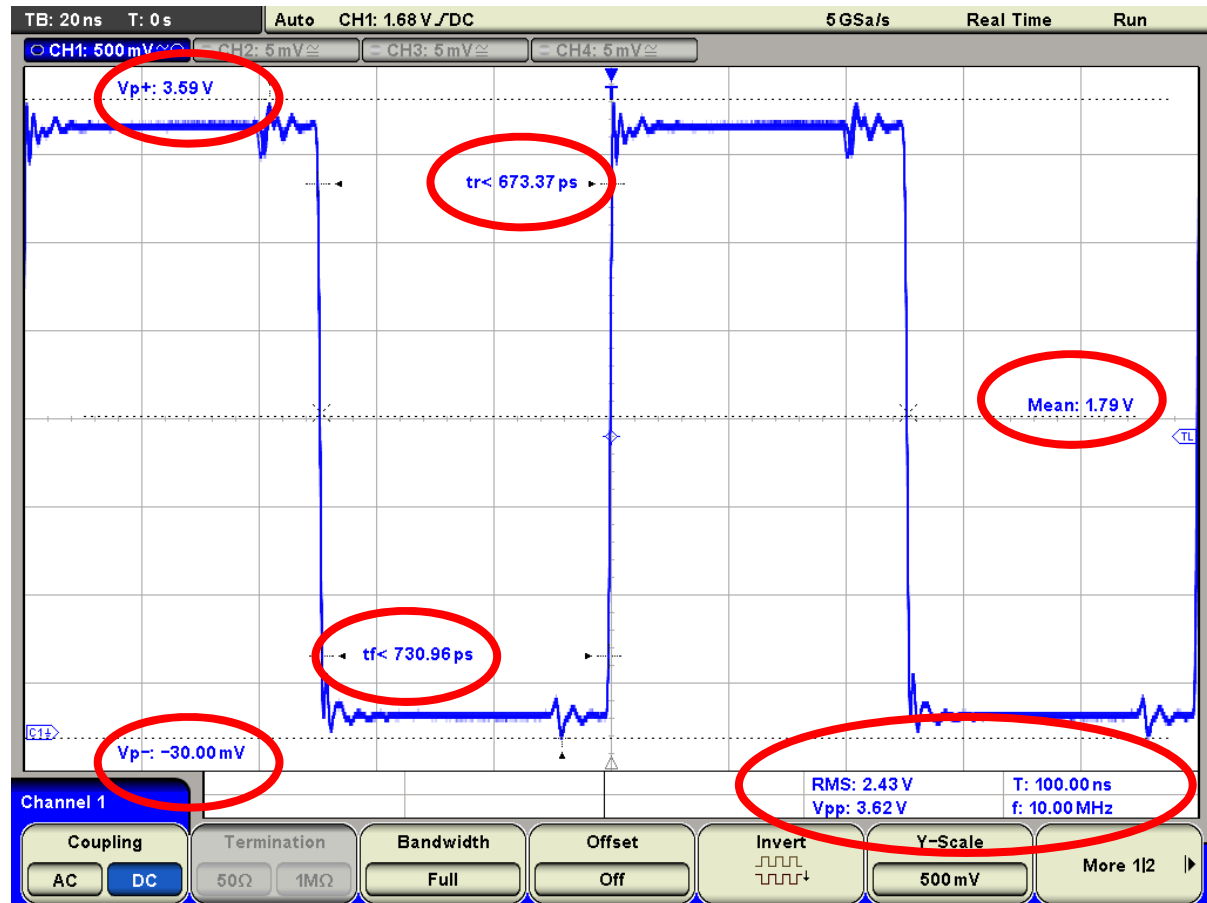


# R&S®RTM

## QuickMeas快速测量

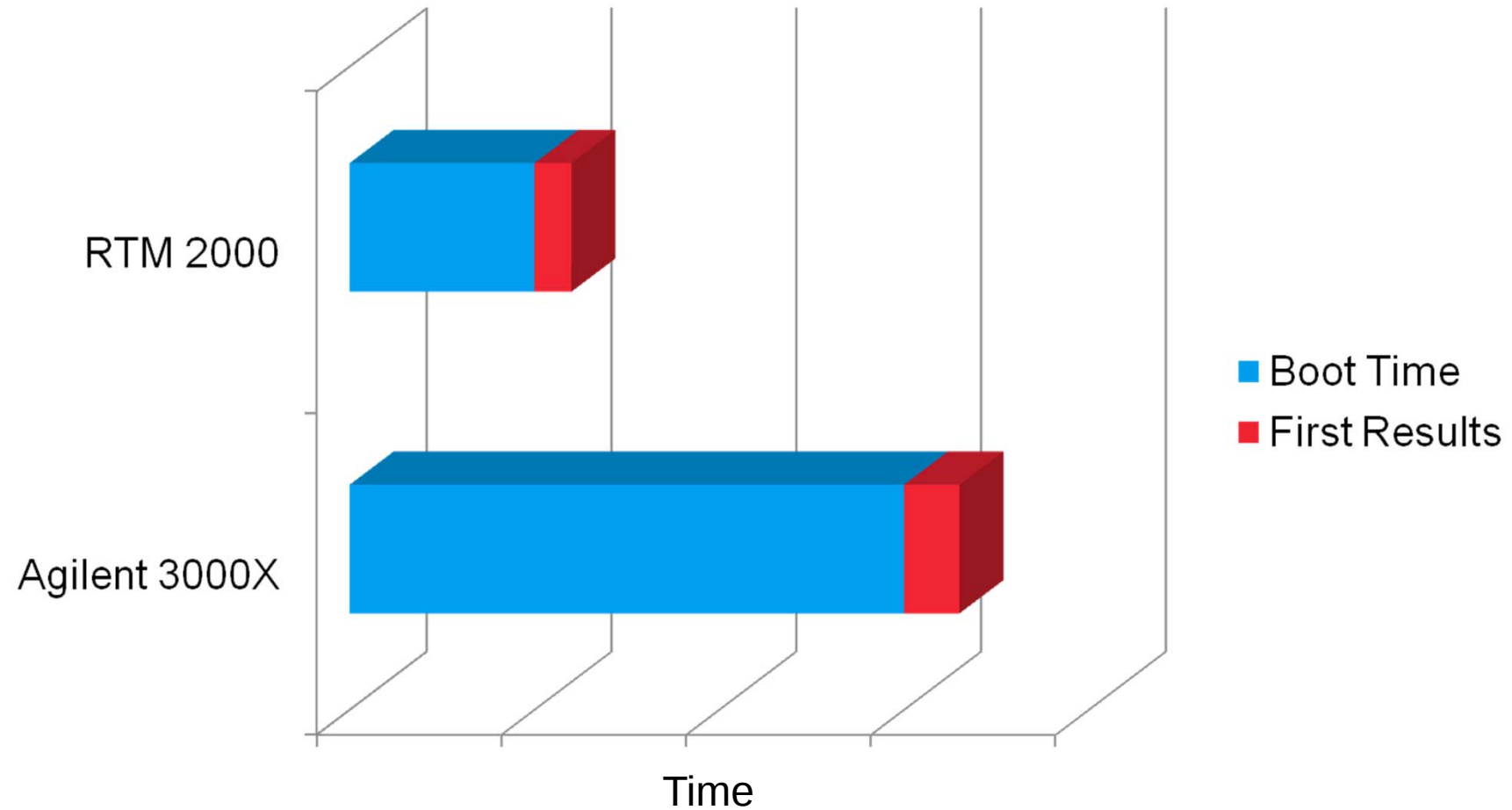
1 重要测量参数如:  $V_{p+}$ ,  $V_{p-}$ ,  $t_r$ ,  $t_f$ ,  $f$

- 1 一键完成
- 1 包含标识
- 1 实时更新



# R&S®RTM

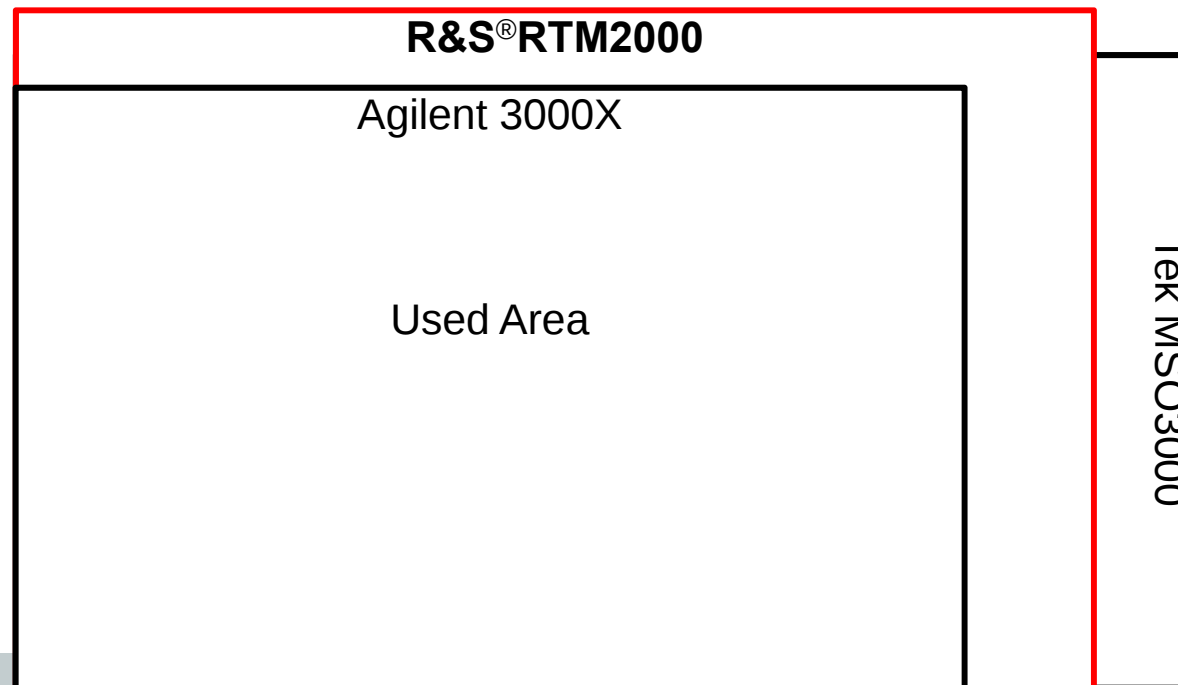
## 最短启动时间-最快获得结果



# R&S®RTM

## 最大屏幕最优分辨率

|                    | Size | Resolution | Area                |
|--------------------|------|------------|---------------------|
| RTM2000            | 8,4" | 1024 x 768 | 176 mm <sup>2</sup> |
| Agilent 3000X      | 8,5" | 800 x 480  | 176 mm <sup>2</sup> |
| Tektronix MSO 3000 | 9"   | 800 x 480  | 136 mm <sup>2</sup> |

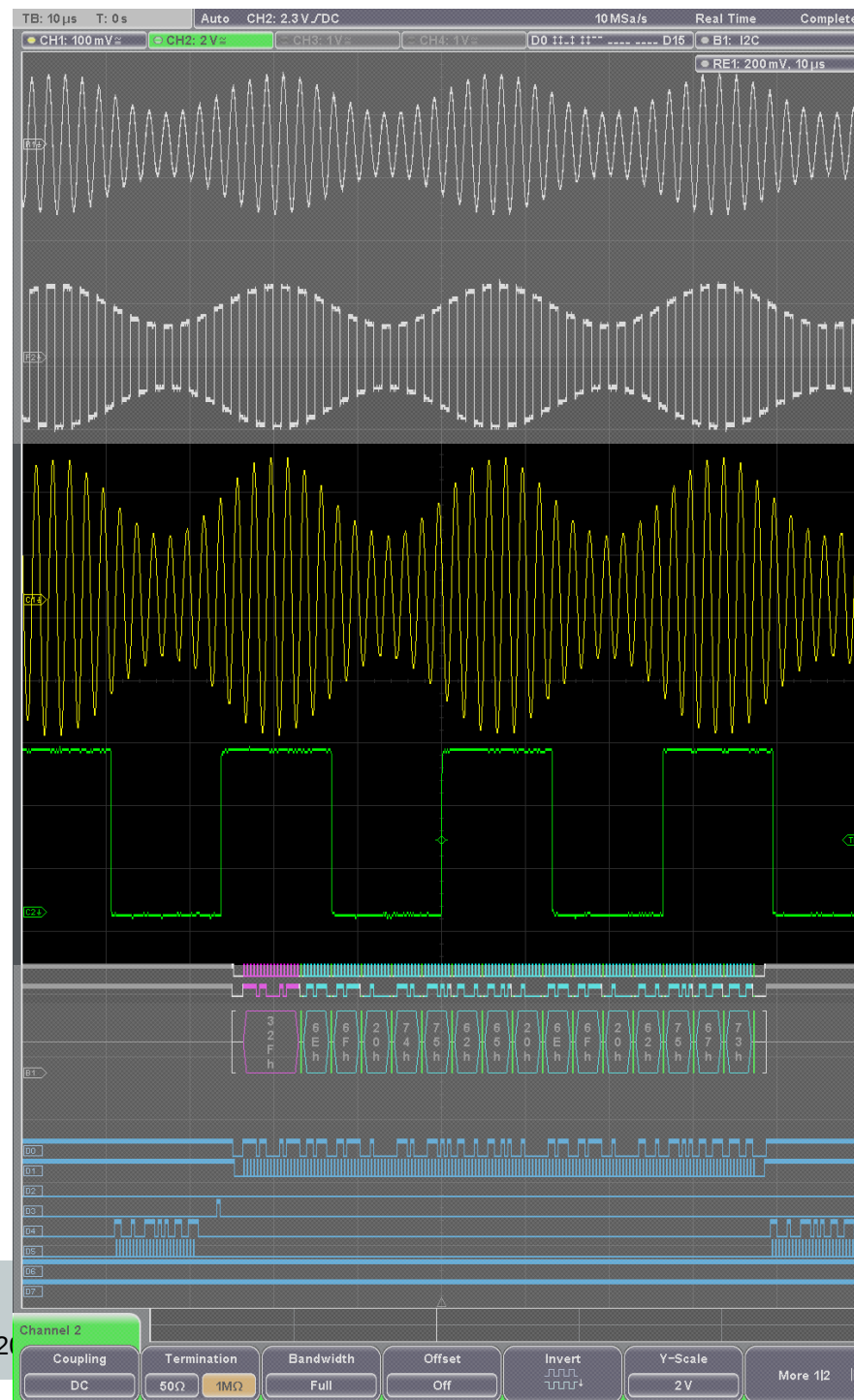


# R&S®RTM

## 虚拟屏幕功能

- 1 虚拟屏幕将显示屏幕从8格扩展为20格
- 1 虚拟屏幕可以显示：数学运算波形、参考波形、逻辑通道和总线协议
- 1 支持同时简便的显示多种信号，没有重叠覆盖

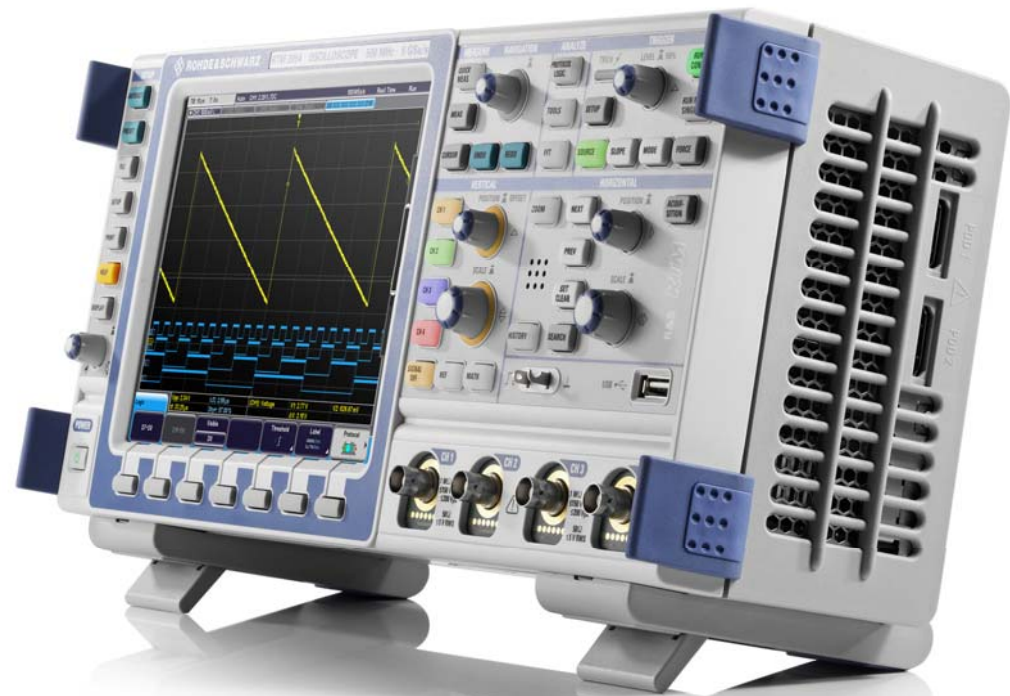
Screen



# R&S®RTM

## 轻巧，便携

- 1 适应台式应用的扁平设计
- 1 轻巧，便携
- 1 快速启动和设置
- 1 包含9种语言界面，有简体中文菜单



# R&S®RTM

## 软硬件选件

|            | Option                           |
|------------|----------------------------------|
| RTM - B1   | MSO                              |
| RTM - B10  | GPIO                             |
| RTM - B200 | Bandwidth upgrade 350 to 500 MHz |
| RTM - K1   | I2C/SPI trigger and decode       |
| RTM - K2   | UART/RS232 trigger and decode    |
| RTM - K3   | CAN/LIN trigger and decode       |
|            |                                  |
|            |                                  |
|            |                                  |



# 各种应用中的优点

## 1 开发设计

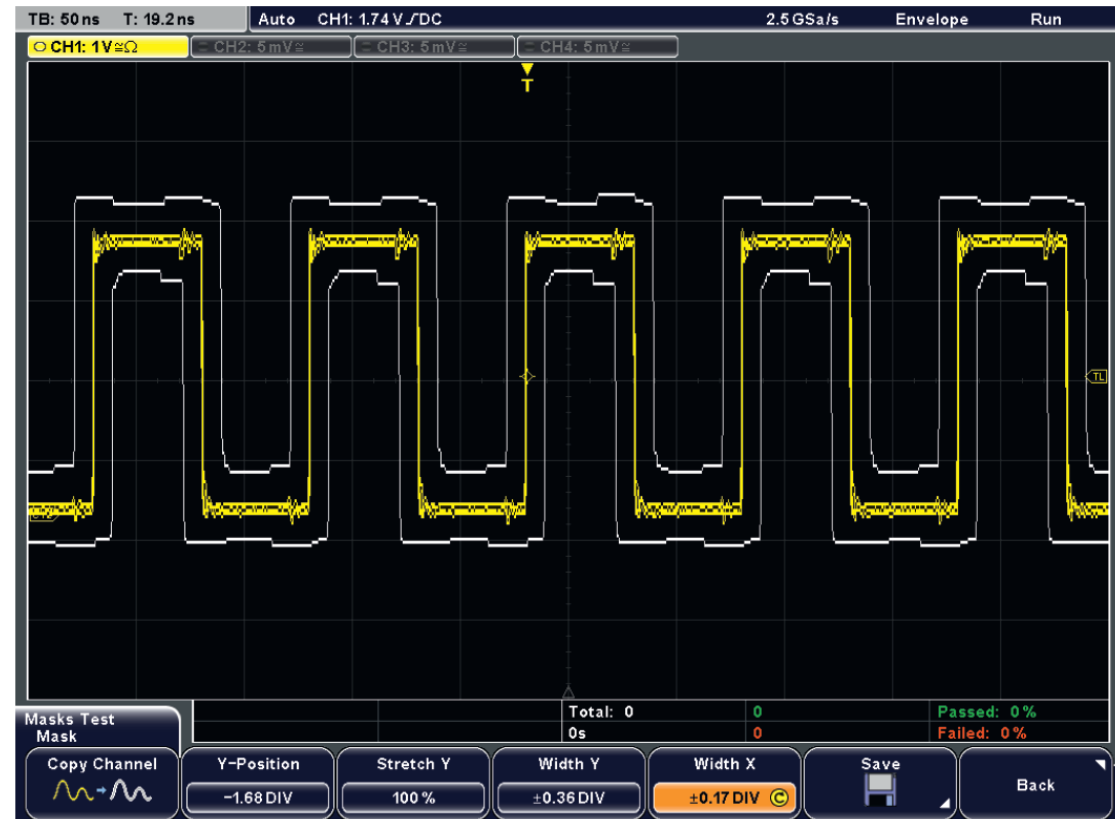
- 1 集成逻辑分析和FT功能
- 1 快速启动快捷测量
- 1 虚拟屏幕

## 1 生产测试

- 1 标配模板测试
- 1 高精度 高产出

## 1 维修维护

- 1 操作界面简单直观
- 1 快速启动，快捷测量
- 1 轻巧紧凑的设计



# R&S®RTM

## Options& Accessories

| Designation                                                                     | Type     |
|---------------------------------------------------------------------------------|----------|
| Digital Oscilloscope 350MHz, 2 channels,                                        | RTM2032  |
| Digital Oscilloscope 350MHz, 4 channels,                                        | RTM2034  |
| Digital Oscilloscope 500MHz, 2 channels,                                        | RTM2052  |
| Digital Oscilloscope 500MHz, 4 channels,                                        | RTM2054  |
| Bandwidth Upgrade from 350 to 500 MHz                                           | RTM-B200 |
| <b>Hardware Options</b>                                                         |          |
| Mixed Signal Option 400 MHz                                                     | RTM-B1   |
| GPIO Interface                                                                  | RTM-B10  |
| <b>Software Options</b>                                                         |          |
| I2C/SPI Serial Triggering and Decoding                                          | RTM-K1   |
| UART/RS-232 Serial Triggering and Decoding                                      | RTM-K2   |
| CAN/LIN Serial Triggering and Decoding                                          | RTM-K3   |
| <b>Probes</b>                                                                   |          |
| 500 MHz, passive, 10:1, 10 MΩ, 9.5 pF, max. 400 V                               | RTM-ZP10 |
| 400 MHz, passive, high-voltage, 100:1, 50 MΩ, 7.5 pF, 1 kV (RMS)                | RT-ZH10  |
| 400 MHz, passive, high-voltage, 1000:1, 50 MΩ, 7.5 pF, 1 kV (RMS)               | RT-ZH11  |
| 1.0 GHz, active, 1 MΩ, 0.8 pF                                                   | RT-ZS10E |
| 1.0 GHz, active, 1 MΩ, 0.8 pF, R&S®ProbeMeter, micro button                     | RT-ZS10  |
| 100 MHz, high-voltage, active, differential, 8 MΩ, 3.5 pF, 1 kV (RMS) (CAT III) | RT-ZD01  |
| 1.5 GHz, active, differential, 1 MΩ, 0.6 pF, R&S®ProbeMeter, micro button       | RT-ZD20  |
| 10 MHz, current, AC/DC, 0.01 V/A, 150 A (RMS)                                   | RT-ZC10  |
| 100 MHz, current, AC/DC, 0.1 V/A, 30 A (RMS)                                    | RT-ZC20  |
| Probe Power Supply                                                              | RT-ZA13  |
| <b>Accessories</b>                                                              |          |
| Front Cover                                                                     | RTM-Z1   |
| Soft Case for R&S®RTM oscilloscopes and accessories                             | RTM-Z3   |
| Transit Case                                                                    | RTM-Z4   |
| Rackmount Kit                                                                   | ZZA-RTM  |

