

Industry Comparison: Agilent InfiniiVision 3000 X-Series versus Rohde & Schwarz RTM Series Oscilloscopes

Agilent's new 3000 X-Series oscilloscopes use breakthrough technology to deliver value, functionality and flexibility at prices that fit into existing budgets. Using an Agilent-designed *MegaZoom* IV Custom ASIC technology, the 3000 X-Series provides unprecedented signal visibility with over 1,000,000 waveforms per second. The 3000 X-Series is the industry's first 4-in-1 product with a full-featured scope, logic analyzer, protocol analyzer, and a function generator all integrated into one design with a large, 8.5-inch display.



InfiniiVision 3000 X-Series

- 1,000,000 waveforms per second
- · 4 instruments in 1
- Fully upgradable

Agilent-designed

MegaZoom IV custom

ASIC technology
powers the fastest
waveform update
rates, responsive deep
memory, integrated

MSO, integrated industryexclusive WaveGen, and
integrated protocol analyzer





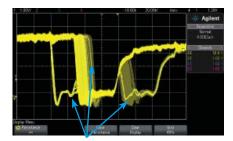
| | Agilent 3000 X-Series | | Rohde & Schwarz RTM Series | |
|------------------------------|--|----------|------------------------------|---|
| Bandwidth | 100 MHz, 200 MHz, 350 MHz, 500 MHz | √ | 500 MHz | Х |
| Upgradable bandwidth | Yes | √ | Not available | Х |
| Maximum sampling rate | Up to 4 GSa/s | X | Up to 5 GSa/s | √ |
| Maximum memory depth | Up to 4 M | X | Up to 8 M | √ |
| Display | 8.5-inch WVGA | √ | 8.4-inch XGA | √ |
| Update rate | > 1,000,000 wfms/s | √ | Up to 10,000 wfms/s | X |
| Mixed signal oscilloscope | Yes – 16 channels integrated | √ | Not available | Х |
| Upgradable MS0 | Yes | √ | Not available | X |
| Advanced triggering | Runt, setup/hold, rise/fall | √ | Not available | Х |
| Function generator | Yes – integrated | √ | Not available | X |
| Serial trigger, decode | I ² C, SPI, RS232, CAN, LIN, I ² S | √ | I ² C, SPI, RS232 | √ |
| Hardware-based serial decode | Yes | √ | No | Х |
| Serial lister | Yes | √ | Not available | Х |
| Search (serial/wfm) | Yes | √ | Not available | Х |
| Knob per channel | Yes | √ | No | Х |
| Probes | Passive, current, differential, high voltage | √ | Passive | Х |
| Starting price | Lower | √ | Higher | Х |



See more

Of your signal, more of the time:

- > 1,000,000 waveforms per second update rate allows you to see infrequent events and subtle signal detail that the RTM3000 will miss
- Hardware-accelerated serial decode ensures you don't miss infrequent errors



Infrequent glitches and signal jitter captured after 1 second on 3000 X-Series with > 1,000,000 wfms/s



RTM after 20 seconds with ∞ persist – it never sees the glitches and shows limited signal jitter due to slower update rate

Do more

With the power of 4 instruments in 1:

- Best-in-class oscilloscope
 Provides features not normally found in this class of scope such as a large display, deep memory, and powerful triggering
- Protocol analyzer
 Provides protocol-av

Provides protocol-aware triggering, decode, search, and navigation for serial buses. With the industry's only hardwarebased decode including multi-lane analysis, you can be sure you will never miss elusive errors

- Logic timing analyzer (MSO)
 Ideal for R&D engineers on a tight budget
 who need more than the traditional 2 or 4
 analog channels to troubleshoot today's
 digital designs
- Industry-exclusive WaveGen built-in function generator Ideal for educational or design labs where bench space and budget are limited

Get more

Investment protection and productivity:

- Upgradable bandwidth
- Upgradable MSO
- · Upgradable memory
- Upgradable WaveGen
- · Optional measurement applications

Buy only what you need today. Simple, after purchase upgrades protect your investment and allow you to enhance your equipment as your needs change.



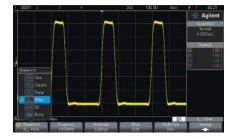
Infrequent LIN bus parity error captured on the 3000 X-Series in less than a second due to hardware-based serial decode



500 CAN serial packets over 9 seconds, captured at a high sample rate, using the 3000 X-Series's segmented memory



3000 X-Series MSO adds 16 integrated digital channels for extra triggering and analysis; DSO models are customer-upgradable to MSO models



3000 X-Series industry-exclusive WaveGen function generator saves money and bench space

www.agilent.com www.agilent.com/find/3000X-Series

Product specifications and descriptions in this document subject to change without notice.

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