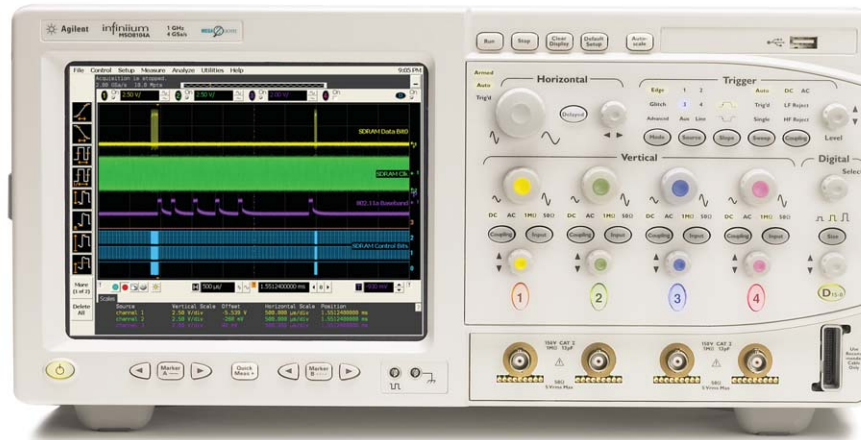


# Agilent 8000 Series Oscilloscopes

Superior Mixed Signal Analysis and Debug for Your Application



## Key specifications

<b>Bandwidth</b>	600 MHz and 1 GHz models
<b>Channels</b>	4 analog 4 analog +16 digital
<b>Sample rate</b>	4 GSa/s (2 channels) 2 GSa/s (4 channels)
<b>Memory</b>	8 Mpts standard (Maximum 128 Mpts)
<b>Display</b>	High-definition display with XGA resolution, 256 levels of intensity
<b>Triggering</b>	Hardware: edge, pulse width, pattern, duration, sequence, serial bus (I <sup>2</sup> C, SPI, CAN, LIN, FlexRay and USB) Software: measurement, zone, runt, 80-bit serial trigger, non-monotonic edge

**Agilent 8000 Series scope provides powerful debugging features for both time and frequency domain with:**

### InfiniiScan - next generation trigger

InfiniiScan provides "true" ease of trigger capability. Just draw boxes with Zone Qualify to track signal behavior. InfiniiScan scans through thousands of acquired waveforms per second to help you isolate anomalous signal behaviors.

### Chart mode feature

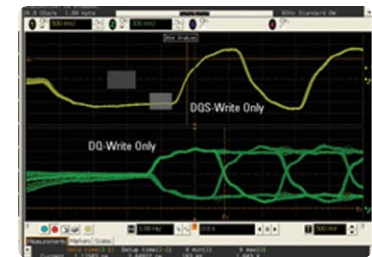
Chart mode applies trend analysis techniques to see how the digital output (ADC, counter address lines, etc.) vary over time. This method is effective to quickly find anomalies of the digital signals. You can also apply math operators such as FFT to view

### Serial, parallel and wideband signal decode

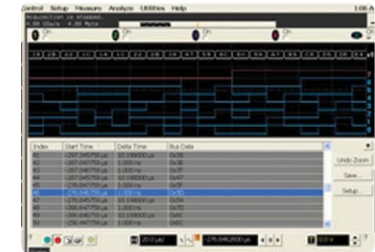
Whether you are working on serial, parallel or wideband signals, you can use the 8000 Series to decode your waveforms. You can even customize the decoded symbol to be displayed on the decode table for your parallel signals.

### Powerful wideband RF analysis

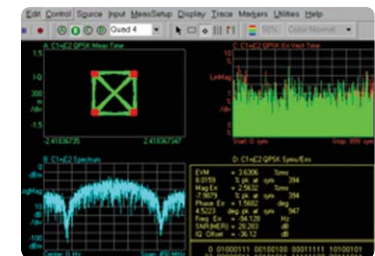
The 8000 Series provides superior frequency domain analysis, RF-signal demodulation and extensive standard-specific analysis coverage. With digital and wireless applications merging, you can use the 8000 Series as a one-box solution to validate the time and frequency domains.



Easily draw zones to trigger on the signals you want to see with InfiniiScan.



Debug your uP, uC, ADC, FPGA and more with 16 digital channels with customizable parallel data decode feature.



One box solution for powerful time and frequency domain analysis.



Order the mixed-signal oscilloscope to add 16 digital timing channels to any 4-channel scope

### Oscilloscope models

Model	Bandwidth	Sample rate	Analog channels
MS08104A	1 GHz	4 GSa/s	4-analog + 16-digital
DS08104A	1 GHz	4 GSa/s	4-analog
MS08064A	600 MHz	4 GSa/s	4-analog + 16-digital
DS08064A	600 MHz	4 GSa/s	4-analog

All models come standard with 8 Mpts of deep memory with an option to upgrade to 128 Mpts.

### Applications

Model	Description
N5397A	FPGA dynamic probe for Xilinx
N5433A	FPGA dynamic probe for Altera
N5391A	Low-speed serial data analysis software for I2C and SPI serial communication buses
N5402A	Automotive serial data analysis software for CAN and FlexRay serial communication buses
E2681A	EZJIT jitter analysis software
E2690B	Oscilloscope tools: advanced time interval & jitter analysis software from Amherst Systems Associates
E2625A	Communication mask test kit
N5392A	Ethernet performance validation and compliance software
N5416A	USB 2.0 electrical performance validation and compliance software
U7233A	DDR1 compliance test application
89601A	VSA software for Infiniium
N5415A	InfiniiScan event identification software

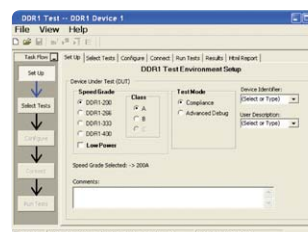
For more information on this and other Agilent scopes please visit [www.agilent.com/find/mso8000](http://www.agilent.com/find/mso8000)

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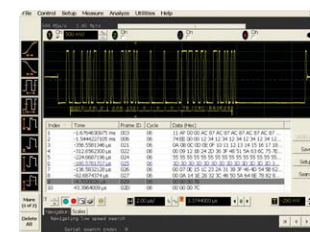
### Recommended probes

Model	Description
10070C	1:1, 1-M $\Omega$ passive probe
1165A	10:1, 10-M $\Omega$ 600-MHz passive probe
N2780A	2-MHz/500-A AC/DC current probe
N2781A	10-MHz/150-A AC/DC current probe
N2782A	50-MHz/30-A AC/DC current probe
N2783A	100-MHz/30-A AC/DC current probe
N5450A	InfiniiMax extreme temperature extension cable for temperature chamber testing
1156A	1.5-GHz active probe
1130A	1.5-GHz InfiniiMax probe amplifier (No probe heads included)
N5396A	Gigabit Ethernet jitter test cable

### Sample software application screenshots



Automated DDR1 measurement package



Physical and protocol analysis for CAN and FlexRay

### Powered by MegaZoom III technology which combines:

- Responsive deep memory to see more time in more detail
- Fast update rate to find elusive glitches and speed up testing
- High-definition display technology



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