Quick Fact Sheet

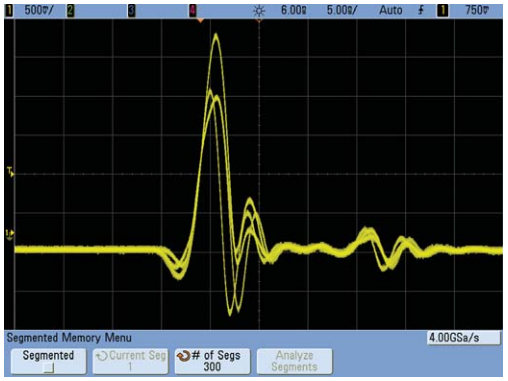
# InfiniiVision Series Oscilloscope Application-specific Measurement Options

Agilent offers a variety of application-specific measurement options and PC-based software packages for the InfiniiVision Series oscilloscopes that can make debugging and characterizing your designs much more efficient.

## Serial Bus Options

**(Scope-based measurement license)**

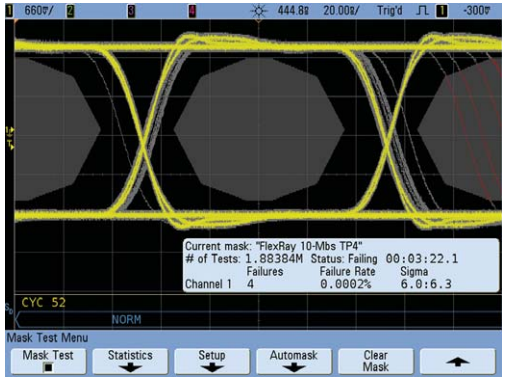
With a serial bus option installed, the scope will automatically decode and trigger on serial bus traffic based on the specific serial protocol. And with the oscilloscope industry's only hardware-based decoding technology, waveform and decode update rates are virtually real-time to ensure that infrequent communication errors are captured quickly. The serial bus protocols that Agilent's InfiniiVision series 4-channel DSOs and MSOs support include: $I^2C$, SPI, RS232/UART, CAN, LIN, FlexRay, $I^2S$, and MIL-STD 1553.




## Segmented Memory Option

**(Scope-based measurement license)**

When capturing low duty cycle pulses or data bursts, Segmented Memory acquisition can be used to optimize acquisition memory by selectively capturing and storing important segments of signals without capturing unimportant signal i dle/dead-time. Segmented Memory acquisition is ideal for applications including pulsed laser, radar bursts, high-energy physics experiments, as well as a broad range of packetized serial bus applications. The Segmented Memory option (Option SGM) is compatible on all InfiniiVision series oscilloscope models.




## Mask Testing Option

**(Scope-based measurement license)**

Whether performing pass/fail tests to specified standards in the manufacturing test environment, or if testing for infrequent signal anomalies in the R&D debugging environment, the mask test option on Agilent's InfiniiVision series scopes is a valuable productivity tool. With the oscilloscope industry's only hardware-based mask testing, up to 100,000 waveforms can be tested each second. The mask test option (Option LMT) is compatible on all InfiniiVision series oscilloscope models.

Agilent Technologies

In addition to scope-licensed measurement options, Agilent also offers several measurement application software packages that provide PC-based automated measurements using an Agilent InfiniiVision series oscilloscope.

## Power Measurements (PC-based software)

Agilent's power application provides a full suite of power measurements that run on a PC. This application package offers seven modules to help you characterize your devices (power device analysis, input line analysis, output analysis, turn on/off analysis, transient analysis, modulation analysis) in addition to de-skew and report generation.

## FPGA Dynamic Probe (PC-based software)

Agilent's MSO FPGA dynamic probe provides internal FPGA visibility and quick instrument setup using an innovative core-assisted debug approach. Measurement tasks that previously took hours can be done in a few mouse clicks. In a few seconds, easily measure a different set of internal signals without changing your FPGA design.

## Vector Signal Analysis (PC-based software)

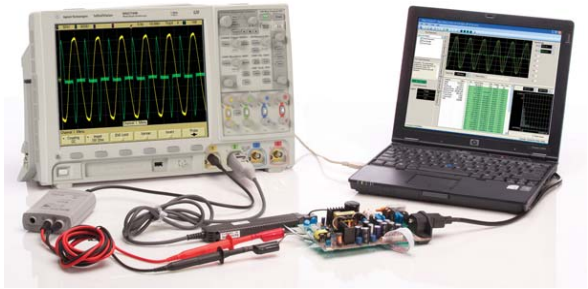
Expand the measurement capability of your scope with the 89601A vector signal analysis software. This advanced DSP-based software takes the digitized signal data provided by the scope and provides FFT-based spectrum analysis and wide bandwidth digital modulation analysis for wireless communication signals like WCDMA and cdma2000, and wireless networking signals like 802.11 WiFi and 802.16 WiMaxTM.

## FlexRay Physical Layer Conformance Test (PC-based software)

For complete testing of the physical layer characteristics of FlexRay networks, this PC-based software package provides 33 unique receiver input and transmitter output measurements with a complete pass/fail test report including margin analysis. This software package cannot be ordered separately, but is included with the FlexRay trigger and decode scope-based licensed firmware (Option FLX).

### Recommended service options

Additional two years of Return-to-Agilent warranty
Additional two years of Return-to-Agilent calibrations
For more information go to **www.agilent.com/find/removealldoubt**



**For additional information about Agilent's InfiniiVision Series oscilloscopes, go to: www.agilent.com/find/infiniivision**

| Measurement Options | Factory installed option number | User-installed Part Number | Related Literature Publication Number |
|---|---|---|---|
| I²C/SPI | Option LSS | N5423A | 5989-5126EN |
| RS232/UART | Option 232 | N5457A | 5989-7832EN |
| CAN/LIN | Option AMS | N5424A | 5989-6220EN |
| FlexRay | Option FLX | N5432C | 5989-9635EN |
| I²S | Option SND | N5468A | 5990-4198EN |
| MIL-STD 1553 | Option 553 | N5469A | 5990-4924EN |
| Segmented Memory | Option SGM | N5454A | 5989-7833EN |
| Mask Testing | Option LMT | N5455A | 5990-3269EN |
| Power Measurements | N/A | U1881A | 5989-7835EN |
| FPGA Dynamic Probe for Xilinx | N/A | N5406A | 5989-5965EN |
| FPGA Dynamic Probe for Altera | N/A | N5434A | 5989-5941EN |
| Vector Signal Analysis | N/A | 89601A | 5989-1679EN |

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http://cp.literature.agilent.com/litweb/pdf/xxxx-xxxxEN.pdf

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