

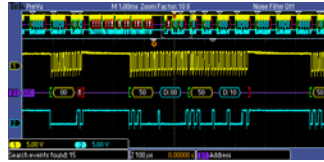
MSO/DPO2000B Series vs. Agilent DSO1000A Series

Competitive Fact Sheet

Serial Triggering and Decode

Tektronix MSO/DPO2000 Series

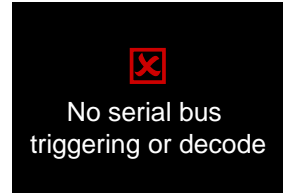
- ✓ **Bus Display** – Provides a higher level, combined view of individual signals that make up your bus.
- ✓ **Bus Decoding** – Decodes each packet on the bus and displays the value in hex, binary, decimal, or ASCII.
- ✓ **Serial Triggering** – Trigger on packet content.
- ✓ **Event Table** – View captured packets in a tabular view.
- ✓ **Search** – Wave Inspector® navigation automatically searches for and marks user-defined events on packet content.



Time	Packet Start	Address	Data	Missing Ack	Event Table
0.0000ms	0010	0030	3A3C		
-0.0000ms	0010	0030	3A3C		
-0.1500ms	0010	0030	3A3C		
-0.2700ms	0010	0030	3A3C		
-0.3900ms	0010	0030	3A3C		
-0.5100ms	0010	0030	3A3C		
-0.6300ms	0010	0030	3A3C		
-0.7500ms	0010	0030	3A3C		
-0.8700ms	0010	0030	3A3C		
-0.9900ms	0010	0030	3A3C		
-1.1100ms	0010	0030	3A3C		
-1.2300ms	0010	0030	3A3C		
-1.3500ms	0010	0030	3A3C		
-1.4700ms	0010	0030	3A3C		
-1.5900ms	0010	0030	3A3C		
-1.7100ms	0010	0030	3A3C		
-1.8300ms	0010	0030	3A3C		
-1.9500ms	0010	0030	3A3C		
-2.0700ms	0010	0030	3A3C		
-2.1900ms	0010	0030	3A3C		
-2.3100ms	0010	0030	3A3C		
-2.4300ms	0010	0030	3A3C		
-2.5500ms	0010	0030	3A3C		
-2.6700ms	0010	0030	3A3C		
-2.7900ms	0010	0030	3A3C		
-2.9100ms	0010	0030	3A3C		
-3.0300ms	0010	0030	3A3C		
-3.1500ms	0010	0030	3A3C		
-3.2700ms	0010	0030	3A3C		
-3.3900ms	0010	0030	3A3C		
-3.5100ms	0010	0030	3A3C		
-3.6300ms	0010	0030	3A3C		
-3.7500ms	0010	0030	3A3C		
-3.8700ms	0010	0030	3A3C		
-3.9900ms	0010	0030	3A3C		
-4.1100ms	0010	0030	3A3C		
-4.2300ms	0010	0030	3A3C		
-4.3500ms	0010	0030	3A3C		
-4.4700ms	0010	0030	3A3C		
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-6.1500ms	0010	0030	3A3C		
-6.2700ms	0010	0030	3A3C		
-6.3900ms	0010	0030	3A3C		
-6.5100ms	0010	0030	3A3C		
-6.6300ms	0010	0030	3A3C		
-6.7500ms	0010	0030	3A3C		
-6.8700ms	0010	0030	3A3C		
-6.9900ms	0010	0030	3A3C		
-7.1100ms	0010	0030	3A3C		
-7.2300ms	0010	0030	3A3C		
-7.3500ms	0010	0030	3A3C		
-7.4700ms	0010	0030	3A3C		
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-9.0300ms	0010	0030	3A3C		
-9.1500ms	0010	0030	3A3C		
-9.2700ms	0010	0030	3A3C		
-9.3900ms	0010	0030	3A3C		
-9.5100ms	0010	0030	3A3C		
-9.6300ms	0010	0030	3A3C		
-9.7500ms	0010	0030	3A3C		
-9.8700ms	0010	0030	3A3C		
-10.00ms	0010	0030	3A3C		

Agilent DSO1000A Series

- ✗ No serial bus triggering or decode offered.
- ✗ No serial search offered.
- ✗ No Event Table offered.



Long Record Length Navigation and Search

Tektronix MSO/DPO2000 Series



- ✓ 1 M point record.
- ✓ Wave Inspector® controls.
- ✓ Pan/Zoom controls make easy work of scrolling through long records.
- ✓ Play/Pause button scrolls the waveform across the screen automatically.
- ✓ Search/Mark controls enable you to search for events of interest, mark them, then navigate through the record mark-by-mark.

Agilent DSO1000A Series

- ✗ 20,000 point maximum record.
- ✗ Uses horizontal scale knob to zoom.
- ✗ Manual scrolling of horizontal position to scroll through data.
- ✗ No automated search capability.

Key Specifications Comparison

	Tektronix MSO/DPO2000 Series	Agilent DSO1000A Series
Channels Analog	✓ 2, 4	✓ 2, 4
Channels Digital	✓ 16 (MSO only)	✗ No equivalent feature
Bandwidth	✓ 70, 100, 200 MHz	✓ 60, 100, 200 MHz
Max. Sample Rate (All channels on)	✓ 1 GS/s	✓ 1 GS/s
Max. Record Length (All analog channels on)	✓ 1 M points	✗ 10 k points
Serial Triggering and Decode (Optional)	✓ I ² C, SPI, CAN, LIN, RS-232/422/485/UART	✗ No serial triggering or decode
Navigation and Search	✓ Wave Inspector controls	✗ Multiplexed zoom controls, no search
Display Size (resolution)	✓ 7.0-inch wide format (480 x 234)	✗ 5.7-inch standard format (320 x 240)
Warranty	✓ 5-year	✗ 3-year

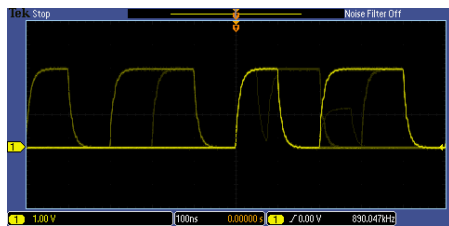
MSO/DPO2000B Series vs. Agilent DSO1000A Series

Competitive Fact Sheet

DPO Acquisition and Variable Persistence with Intensity Grading

Tektronix MSO/DPO2000 Series

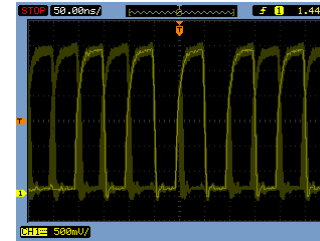
Infinite persistence stopped after 15 seconds capture



- ✓ 5,000 wfms/s capture rate.
- ✓ As shown, glitches and intermittent pulses are captured in 15 seconds.
- ✓ Triggers: Edge, Pulse width/glitch, Runt, Logic, Setup/hold, Rise/Fall Time, Video, Parallel.
- ✓ Persistence available in any capture mode.

Agilent DSO1000A Series

Infinite persistence stopped after 10 minutes capture

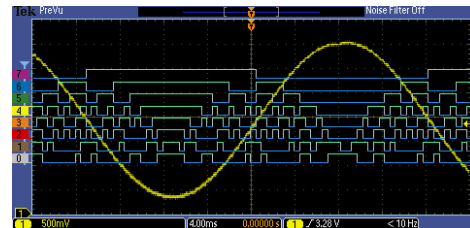


- ✗ 400 wfms/s capture rate.
- ✗ As shown, no glitches or intermittent pulses are captured in 10 minutes.
- ✗ Triggers: edge, pulse, video, patter, alternate.

MSO Series Mixed Signal Debug

Tektronix MSO2000 Series

- ✓ View up to 4 analog, 16 digital, and 2 bus waveforms, all time-correlated
- ✓ Define a parallel bus and trigger on specific data values
- ✓ Logical highs are identified in **Green** and lows in **Blue**
- ✓ Group waveforms and threshold settings



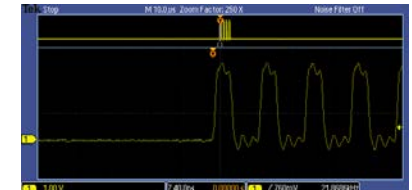
Agilent DSO1000A Series

- ✗ No equivalent feature

Horizontal Zoom

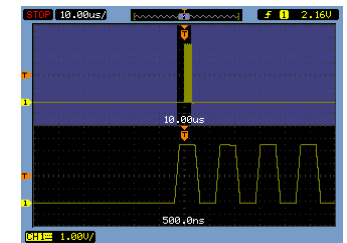
Tektronix MSO/DPO2000 Series

- ✓ Dedicated front panel buttons and knobs for quick access and control of zoom
- ✓ High sample rate and sin(x)/x interpolation in zoom mode assures accurate waveform display



Agilent DSO1000A Series

- ✗ Delayed zoom mode buried in menu and controls multiplexed with horizontal scale and position knobs
- ✗ Linear interpolation in delayed zoom mode may distort displayed waveform



www.tektronix.com/mso2000B