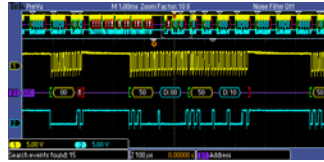# MSO/DPO2000B Series vs. Agilent DSO1000A Series
Competitive Fact Sheet

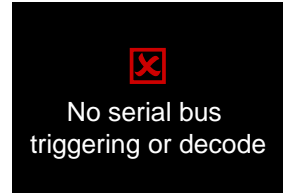## Serial Triggering and Decode

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.

Agilent DSO1000A Series

- ✗ No serial bus triggering or decode offered.

- ✗ No serial search offered.

- ✗ No Event Table offered.

No serial bus triggering or decode

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

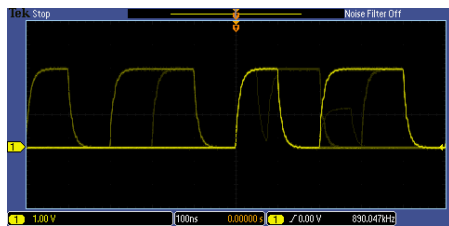|	Tektronix MSO/DPO2000 Series		Agilent DSO1000A Series	
Channels Analog	✓	2, 4	✓	2, 4
Channels Digital	✓	16 (MSO only)	✗	No equivalent feature
Bandwidth	✓	70, 100, 200 MHz	✓	60, 100, 200 MHz
Max. Sample Rate (All channels on)	✓	1 GS/s	✓	1 GS/s
Max. Record Length (All analog channels on)	✓	1 M points	✗	10 k points
Serial Triggering and Decode (Optional)	✓	I^2C, 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

Tektronix®

MSO/DPO2000B Series vs. Agilent DSO1000A Series
Competitive Fact Sheet

DPO Acquisition and Variable Persistence with Intensity Grading
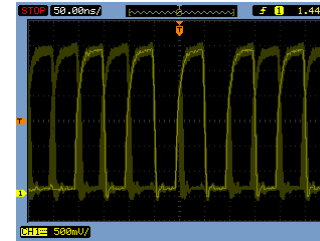
Tektronix MSO/DPO2000 Series

Infinite persistence stopped after <u>15 seconds</u> 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 <u>10 minutes</u> capture
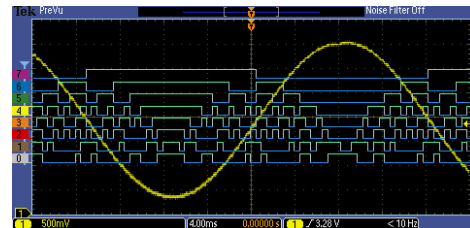

✗ 400 wfms/s capture rate.

✗ 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**
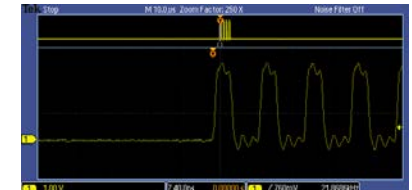
✓ Group waveforms and threshold settings

Agilent DSO1000A Series
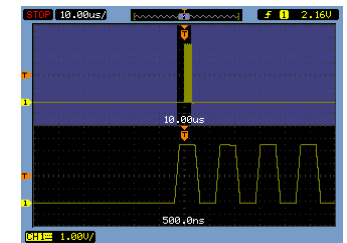
✗ No equivalent feature

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

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www.tektronix.com/mso2000B

Tektronix