Tektronix MSO/DPO2000B Series vs. Rigol DS1000B Series
Competitive Fact Sheet

Serial Triggering and Decode

Tektronix MSO/DPO2000B Series

✓ **Bus Display** – Shows the signals that make up your bus.

✓ **Bus Decoding** – Displays bus messages in hex, binary, decimal, or ASCII.

✓ **Serial Triggering** – Trigger on packet content such as start of packet, specific addresses, and unique identifiers.

✓ **Event Table** – Shows captured packets in a tabular view

✓ **Search** – Wave Inspector® automatically searches for and marks user-defined packet content.

Rigol DS1000B Series

✗ No serial bus triggering or decode offered.

✗ No serial search offered.

No serial bus triggering or decode

Navigation and Search

Tektronix MSO/DPO2000B Series

✓ 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.

Rigol DS1000B Series

✗ Uses delayed mode and horizontal scale knob to zoom.

✗ Manual scrolling of horizontal position to scroll through data.

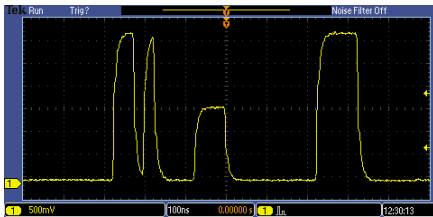✗ No automated search capability.

Key Specifications Comparison

	Tektronix MSO/DPO2000B Series		Rigol DS1000B Series	
Channels	✓	2, 4 analog 16 digital (MSO)	✗	4 analog No digital
Bandwidth	✓	70, 100, 200 MHz	✓	60, 100, 200MHz
Max. Sample Rate (All analog channels on)	✓	1 GS/s	✓	1 GS/s
Max. Record Length (All analog channels on)	✓	1 M points	✗	8 k points
Trigger Types	✓	Edge, Pulse width, Runt, Logic, Setup/hold, Rise/Fall Time, Video, Parallel	✗	Edge, Video, Pulse Width, Alternate, pattern
Automatic Measurements	✓	29	✗	19 Equivalent measurements
Display size	✓	7 inch	✗	5.7 inch
Warranty	✓	5-year	✗	3-year

Tektronix®

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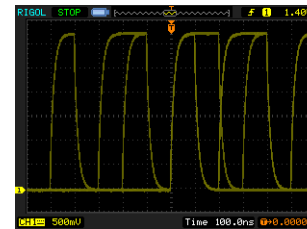
Embedded System Debugging – Triggering

Tektronix MSO/DPO2000B Series

Quickly Trigger on Runt Pulses

✓ Over 8 major trigger types available, and over 125 trigger combinations possible

✓ Runt, Setup/Hold, Rise/Fall-time trigger types reduce digital debugging time.

✓ Trigger on parallel or serial bus values.

Rigol DS1000B Series

Pulse Trigger Doesn't Find Runt

✗ Only 4 simple trigger types available

✗ No Runt, Setup/Hold, Rise/Fall trigger types to help with digital debugging

Advanced Probe Interface

Tektronix MSO/DPO2000 Series

✓ Probe menu on oscilloscope interacts directly with probe

✓ Enables direct connection to current probes (including ac/dc), differential probes, and single-ended active probes

✓ Enables simpler deskewing of probes

Rigol DS1000B Series

✗ No oscilloscope and probe communications

✗ Cannot connect to current probes, active probes directly

Long Record Length and Horizontal Zoom

Tektronix MSO/DPO2000 Series

✓ Dedicated front panel buttons and knobs for quick access and control of zoom.

✓ 1 M point record length on all channels allows fine detail capture over long time periods.

Rigol DS1000B Series

✗ Zoom controls multiplexed with horizontal scale and position knobs.

✗ 16k point record decrease to 8k points when turn on the interleaved channel.

✗ Reduced sample rate due to shorter record length gives less signal detail when in zoom mode.

Tektronix