

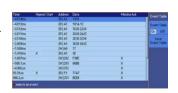
# Tektronix MSO/DPO2000B Series vs. Rigol DS1000CA Series Competitive Fact Sheet

## Serial Triggering and Decode

#### Tektronix MSO/DPO2000B 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 such as start of packet, specific addresses, and unique identifiers.
- ✓ Event Table View captured packets in a tabular view
- Search Wave Inspector® navigation automatically
   ✓ searches for and marks user-defined events on packet content.





## Rigol DS1000CA Series

- X No serial bus triggering or decode offered.
- X No serial search offered.



## Long Record Length Navigation and Search

## Tektronix MSO/DPO2000B Series Rigol DS1000CA 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.

- ★ 5,000 point record.
- 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 DS1000CA Series	
Channels Analog	✓	2, 4 analog	×	2 analog
Channels Digital	✓	16 (MSO Series only)	×	No equivalent feature
Bandwidth	✓	70, 100, 200 MHz	✓	60, 100, 200, 300 MHz
Max. Sample Rate (All analog channels on)	✓	1 GS/s	<b>✓</b>	1 GS/s
Max. Record Length (All analog channels on)	✓	1 M points	×	5 k points
Serial Triggering and Decode	✓	I <sup>2</sup> C, SPI, CAN, LIN, RS-232/422 /485/UART	×	No serial triggering or decode
Warranty	✓	5-year	×	3-year





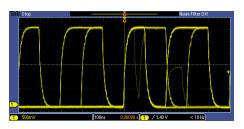
## MSO/DPO2000B Series vs. Rigol DS1000CA Series

## Competitive Fact Sheet

## Capturing an Intermittent Pulse

#### Tektronix MSO/DPO2000B Series

Infinite persistence stopped after 15 second capture



- √ 5,000 wfms/s capture rate.
- ✓ As shown, glitches and intermittent pulses are captured in 15 seconds.
- ✓ Variable persistence also available.

#### Rigol DS1000CA Series

Infinite persistence stopped after 10 minute capture



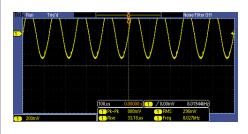
- No published waveform capture rate.
- No glitches or intermittent pulses were captured after 10 minutes of waiting.
- No variable persistence.

## **Automatic Measurements**

#### Tektronix MSO/DPO2000B Series

- Measurements work even when waveform is slightly off-screen.
- Measurements available on all input channels and Math.
- Measure and display up to 4

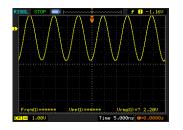
  ✓ parameters. Or look at snapshot of all measurements for a given signal.



### Rigol DS1000CA Series

Measurement system quits if even one pixel of the waveform is off-screen.

- Measurement limited to channel 1
- Measure and display 2 (or 3, if menu is cleared) parameters.



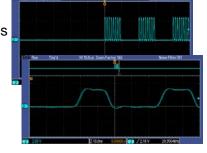
## Horizontal Zoom

#### Tektronix MSO/DPO2000B 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.



#### Rigol DS1000CA 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.

