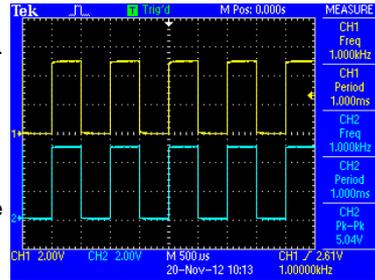# TBS1000 Series vs. Agilent DSO1000B Series
Competitive Fact Sheet

Ease of Use

Tektronix TBS1000 Series

✓ User specified measurements and cursor readings are presented next to the graticule.

✓ A 54-page printed manual is included with the instrument.

✓ Indexed, context sensitive help system with hyperlinks works like a built-in manual.

✓ Probe Check button to quickly verify that the voltage probe is operating properly

✓ Trig View button to see how the trigger settings affect the trigger signal

Agilent DSO1000B Series

✗ Measurements and cursor readings cover up the waveform area.

✗ A printed manual is not included.

✗ No help index and no hyperlinks make it difficult to jump between topics

✗ No probe check function

✗ No trig view function

Portability and Work Environment

Tektronix
TBS1000 Series

✓ 300V$_{RMS}$ CAT II. Rated for measurements on circuits directly connect to mains.

✓ 2.0 kg weight

✓ Silent operation

✓ Operating from 0 C to +50 C

✓ 30 W max power consumption

Agilent
DSO1000B Series

✗ 300V$_{RMS}$ CAT I. Rated for measurements on circuits not connected to mains.

✗ 2.4 kg weight

✗ Contains a cooling fan

✗ Operating from 10 C to +40 C

✗ 50 W max power consumption

Key Specifications Comparison

		Tektronix TBS1000 Series		**Agilent** DSO1000B Series	
Channels		✓	2	✓	2
Bandwidth		✓	25, 40, 60, 100, 150 MHz	✓	50, 70, 100, 150 MHz
Max. Sample Rate (All channels on)		✓	BW<= 40MHz: 500 MS/s BW> 40MHz: 1 GS/s	✗	500 MS/s
Max. Record Length (All channels on)		✗	2.5k points	✓	8k points
Persist Time		✓	OFF, 1sec, 2sec, 5 sec, infinite	✗	OFF, Infinite
Data Logging		✓	Yes	✗	N/A
Included software		✓	OpenChoice	✓	IntuiLink
Interfaces		✓	USB, Optional GPIB	✗	USB

Tektronix

TBS1000 Series vs. Agilent DSO1000B Series
Competitive Fact Sheet

Higher Sample Rate/Bandwidth Ratio

The TBS1000 series offers higher sample rate/bandwidth ratio to reconstruct waveforms more accurately and reduce the possibility of aliasing

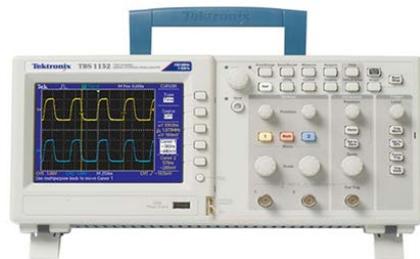| Tektronix TBS1000	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth	Agilent DSO1000	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth
TBS1022	25MHz	500MS/s	20 times				
TBS1042	40MHz	500MS/s	12.5 times	DSO1052B	50MHz	500MS/s	10 times
TBS1062	60MHz	1GS/s	16.7 times	DSO1072B	70MHz	500MS/s	7 times
TBS1102	100MHz	1GS/s	10 times	DSO1102B	100MHz	500MS/s	5 times
TBS1152	150MHz	1GS/s	6.7 times	DSO1152B	150MHz	500MS/s	3.3 times

Warranty Duration

Tektronix
TBS1000 Series

✓ 5 year warranty

Agilent
DSO1000B Series

✗ 3 year warranty

More Affordable

10% to 20% lower prices than Agilent DSO1000B Series

Advanced Features for Embedded Design

Tektronix TDS2000C Series

✓ Higher bandwidth models up to 200MHz

✓ 4 channels available on 70MHz, 100MHz, 200MHz models

✓ Higher sample rate up to 2GS/s

✓ Limited life time warranty (at least 10 years)

✓ Supports NI LabVIEW SignalExpress

Tektronix MSO2000B and DPO2000B Series

✓ Wave Inspector® Navigation and Search for efficient evaluation of records up to 1 million points

✓ 7-inch TFT Display

✓ Decode, search and trigger on serial buses like I^2C, SPI, RS-232 and others.

✓ 16 digital channels (MSO Series)

Tektronix