

# TBS1000B/-EDU Series vs. Agilent DSO1000B Series

## Competitive Fact Sheet

### Ease of Use

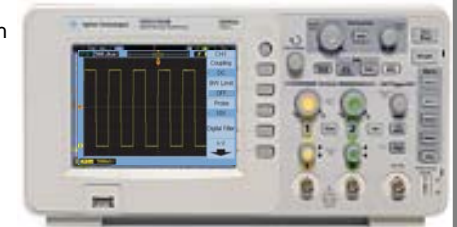
#### Tektronix TBS1000B/-EDU Series

- ✓ 7 inch (800X480) high-resolution display with updated UI similar to Tek DPO scopes
- ✓ Indexed, context sensitive help system with hyperlinks; works like a built-in manual
- ✓ Probe Check button quickly verifies that the voltage probe is operating properly
- ✓ Trigger View button shows how the trigger settings affect the trigger signal
- ✓ Direct access buttons for FFT & SW Apps



#### Agilent DSO1000B Series

- ✗ 5.7 inch (320X240) resolution display with legacy user interface
- ✗ No help index and no hyperlinks make it difficult to access different topics
- ✗ No probe check function
- ✗ No trig view function
- ✗ No direct access to FFT & SW Apps



### Reliability and Work Environment

#### Tektronix

##### TBS1000B/-EDU Series

- ✓ Tektronix' customized integrated circuit minimizes the component count and increases reliability
- ✓ 300V<sub>RMS</sub> CAT II. Rated for measurements on circuits directly connect to mains.
- ✓ 2.0 kg weight
- ✓ Silent operation, no cooling fan
- ✓ Rubberized footing enhances stability on test benches
- ✓ Operating temp 0°C to +50°C;
- ✓ 30 W max power consumption
- ✓ Designed & manufactured by Tektronix

#### Agilent

##### DSO1000B Series

- ✗ Large component count using off-the-shelf electronics
- ✗ 300V<sub>RMS</sub> CAT I. Rated for measurements on circuits not connected to mains.
- ✗ 2.4 kg weight
- ✗ Contains a cooling fan
- ✗ Non rubberized footing, can move or slide accidentally.
- ✗ Operating temp 10°C to +40°C;
- ✗ 50 W max power consumption
- ✗ Manufactured by Chinese OEM vendor



### Key Specifications Comparison

	Tektronix TBS1000B/-EDU Series		Agilent DSO1000B Series	
<b>Channels</b>	✓	2	✓	2
<b>Bandwidth</b>	✓	50, 70, 100, 150, 200 MHz	✓	50, 70, 100, 150 MHz
<b>Max. Sample Rate (All channels on)</b>	✓	BW<100MHz: 1 GS/s BW>=100MHz: 2 GS/s	✗	500 MS/s
<b>Max. Record Length (All channels on)</b>	✗	2.5k points	✓	8k points
<b>Auto Measurements</b>	✓	Best-in-class 34 auto measurements	✗	23 auto measurements
<b>App Functions</b>	TBS1000B: ✓TrendPlot, ✓Enhanced Limit test w/ dual waveforms based mask option		✗ No TrendPlot ✗ Std Limit Test w/o dual waveform based mask option	
	TBS1000B-EDU: ✓ integrated CourseWare function ✓Autoset Enable/Disable ✓Ecosystem with free, oscilloscope compatible courseware available for download from tek.com		✗ No CourseWare function ✗ No Autoset enable/Disable ✗ No courseware-like Ecosystem on Agilent website.	
<b>Frequency Counter</b>	✓	Dual-Channel	✗	Single Channel

# TBS1000B/-EDU Series vs. Agilent DSO1000B Series

## Competitive Fact Sheet

### Higher Sampling Rate / Bandwidth Ratio

The TBS1000B/-EDU series offers higher sample rate/bandwidth ratios which reconstruct waveforms more accurately and reduce the possibility of aliasing

Tektronix TBS1000B/-EDU	Bandwidth	Sample rate (all CHs on)	Sample rate/Bandwidth	Agilent DSO1000	Bandwidth	Sample rate (all CHs on)	Sample rate/Bandwidth
TBS1052B(-EDU)	50MHz	1GS/s	20 times	DSO1052B	50MHz	500MS/s	10 times
TBS1072B(-EDU)	70MHz	1GS/s	14.2 times	DSO1072B	70MHz	500MS/s	7 times
TBS1102B(-EDU)	100MHz	2GS/s	20 times	DSO1102B	100MHz	500MS/s	5 times
TBS1152B(-EDU)	150MHz	2GS/s	13.3 times	DSO1152B	150MHz	500MS/s	3.3 times
TBS1202B(-EDU)	200MHz	2GS/s	10 times				

### Warranty Duration

**Tektronix**  
TBS1000B/-EDU Series

✓ 5 year warranty

**Agilent**  
DSO1000B Series

✗ 3 year warranty

TBS1000B/-EDU Series – The Best Value, Entry Level Oscilloscopes



The TBS1000B Commercial Series



The TBS1000B-EDU Education Series

### Other Advanced Featured Options from Tektronix

#### Tektronix TDS2000C Series

- ✓ 4 channel models with 70MHz, 100MHz & 200MHz bandwidths
- ✓ Limited life time warranty (at least 10 years)

#### Tektronix 4 channel TBS1000 Series

- ✓ 4 channel models with 60MHz, 100MHz & 150MHz bandwidths

#### Tektronix MSO2000B and DPO2000B Series

- ✓ Wave Inspector® Navigation and Search for efficient evaluation of records of up to 1 million points
- ✓ Decode, search and trigger on serial buses like I<sup>2</sup>C, SPI, RS-232 and others.
- ✓ 1M Record Length
- ✓ 16 digital channels (MSO Series)