TBS1000B/-EDU Series vs. Rigol DS1000E Series

Competitive Fact Sheet

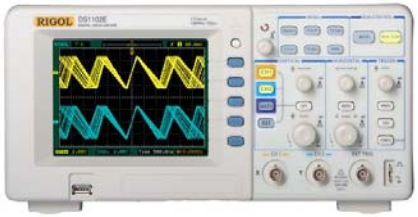
Ease of Use

Tektronix TBS1000B/-EDU Series

- ✓ 7 inch (800X480) high-resolution display with updated UI similar to Tek DPO oscilloscopes
- ✓ "Save" button for effortless waveform storage along with menu information
- ✓ Single button direct access to FFT, Single Trigger & SW applications
- ✓ 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
- ✓ AutoRange button adjusts the controls to automatically produce a usable display

Rigol DS1000E Series

- × 5.6 inch (320X234) resolution display with legacy user interface
- × No dedicated button for quick waveform storage, also can't save menu information
- × No direct access to FFT, Single Trigger & SW applications
- × No help button, no help index and no hyperlinks make it difficult to access different topics
- × No probe check function
- × No trig view function
- × No AutoRange function



Key Specifications Comparison

	Tektronix TBS1000B/-EDU Series		**Rigol** DS1000E Series	
Channels	✓	2	✓	2
Bandwidth	✓	50, 70, 100, 150, 200 MHz	×	50, 100 MHz
Max. Sample Rate (All channels on)	✓	BW<100MHz: 1 GS/s BW> =100MHz: 2 GS/s	×	500 MS/s
Max. Record Length (All channels on)	×	2.5k points	✓	8k points
Auto Measurements	✓	Best-in-class 34 auto measurements	×	22 auto measurements
Frequency Counter	✓	Dual-Channel	×	Single Channel

	Tektronix TBS1000B/-EDU Series	**Rigol** DS1000E Series
App Functions	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: ✓CourseWare function ✓Autoset Enable/Disable ✓Ecosystem with free courseware on tek.com compatible with oscilloscope	× No CourseWare function × No Autoset enable/disable × No courseware-like Ecosystem on Rigol website.

Tektronix

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Competitive Fact Sheet

Higher Sample 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	Rigol DS1000E	Bandwidth	Sample rate(all CHs on)	Sample rate/ Bandwidth
TBS1052B(-EDU)	50MHz	1GS/s	20 times	DSO1052E	50MHz	500MS/s	10 times
TBS1072B(-EDU)	70MHz	1GS/s	14.2 times				
TBS1102B(-EDU)	100MHz	2GS/s	20 times	DSO1102E	100MHz	500MS/s	5 times
TBS1152B(-EDU)	150MHz	2GS/s	13.3 times				
TBS1202B(-EDU)	200MHz	2GS/s	10 times				

Portability and Work Environment

Tektronix
TBS1000B/-EDU Series

- ✓ Tektronix' customized integrated circuit minimizes the component count and increases reliability
- ✓ 300V_{RMS} CAT II
- ✓ 2.0 kg weight
- ✓ Silent operation, no cooling fan
- ✓ Rubberized footing enhances stability on test benches
- ✓ Operating from 0°C to +50°C;
- ✓ 30 W max power consumption
- ✓ 5 year warranty

Rigol
DS1000E Series

- × Large component count using off-the-shelf electronics
- × 300V_{RMS} CAT I.
  100V_{RMS} CAT II.
- × 2.3 kg weight
- × Contains a cooling fan
- × Non rubberized footing, can move or slide accidentally.
- × Operating from 10°C to +40°C;
- × 50 W max power consumption
- × 3 year warranty

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^2C, SPI, RS-232 and others.
- ✓ 1M Record Length
- ✓ 16 digital channels (MSO Series)

Tektronix