

DSO Balances Performance, Usability And Cost For Engineers And Educators

[Tektronix](#)'s TBS2000B series of digital storage oscilloscopes was developed to meet the performance, usability and affordability needs of both engineers and educators. The TBS2000B scopes extend the performance of the TBS2000 portfolio to 200 MHz with a 2-GS/s maximum sample rate (see the figure). The TBS2000B introduction comes shortly after the release of Tektronix's Series 3 and 4 oscilloscopes, as the organization remains committed to investing in a broad portfolio of benchtop solutions.

The TBS2000B series is designed for easy operation and fast hands-on learning with a range of key features. For example, a large 9-inch WVGA display and 15 horizontal divisions—the most in its class according to Tektronix—provide 50% more signal visibility. Meanwhile, 5M point record length, 200-MHz bandwidth, and 2-GS/s sample rate capture and display significantly more signal to debug and validate designs faster. The DSOs also provide a new lower-noise front end design, which enables better signal integrity and more accurate measurements.

Other features include

- The TekVPI probe interface, which supports a wide range of active, differential and current probes with automatic scaling and units.
- On-waveform cursor readouts with search and mark features that enable easy identification of events in the acquired waveform.
- Bandwidth that is field-upgradeable from 70 MHz to 100 MHz to 200 MHz.
- Wi-Fi support (via USB Wi-Fi dongle), two USB host ports, and 100-BaseT Ethernet for easy collaboration.

Providing full compatibility with existing designs, the TBS2000B series is a drop-in replacement for TBS2000 series oscilloscopes, with the same form factor and programmable interface.

The TBS2000B is well suited for university and training environments, with built-in features that make instruction in engineering fundamentals easier for both students and teachers. A HelpEverywhere function offers instant tips within key menus, including measurement information, application tips and general guidance in the form of text and graphics.

Software features enhance the instructors' ability to easily and efficiently configure the instruments. The company's TekSmart Lab network software helps instructors set up and monitor many instruments from one PC. The Courseware ecosystem lets instructors load information into the TBS2000B to help students during labs. Finally, autoset, cursors and automated measurements can be disabled to facilitate teaching basic concepts.

Available now worldwide, the suite of TBS2000B modules are priced from \$1,370.00. Each unit receives Tektronix's five-year warranty, including accidental damage. For more information go to <https://www.tek.com/tbs2000b>.

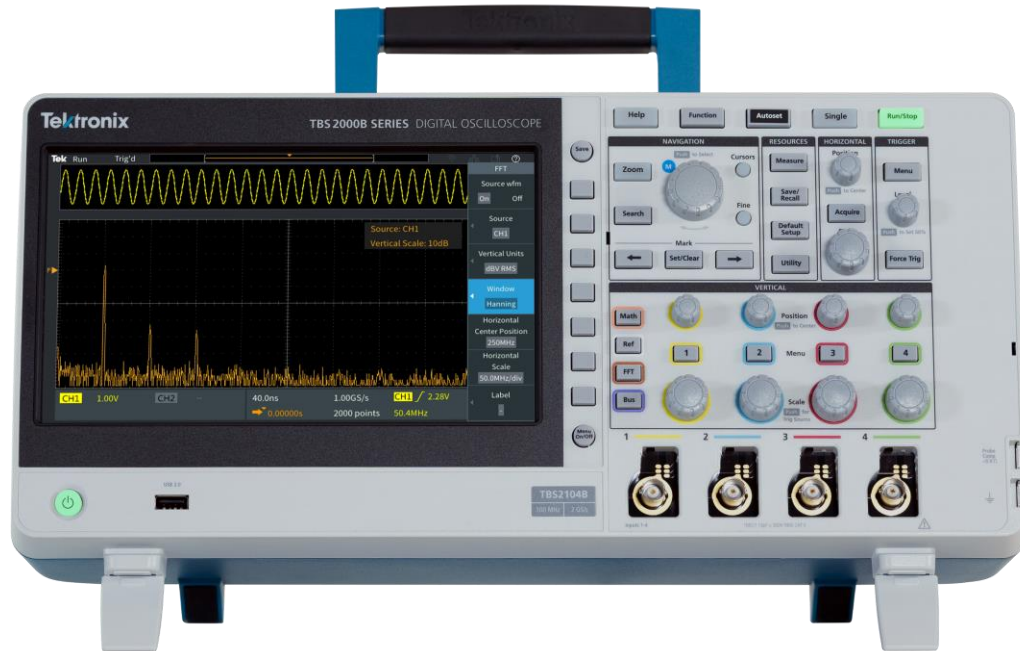


Figure. The TBS2000B series of digital storage oscilloscopes was developed for both engineers and educators, with easy-to-use controls, automated measurements and built-in instruction features.