# Entry-level oscilloscope series features bandwidths from 70 MHz to 200 MHz

Tektronix introduced the attractively priced MSO/DPO2000B [1] Series of oscilloscopes that put advanced debug features within easy reach of engineers and educators. The new oscilloscopes make it easier than ever forengineers – even those on very limited budgets – to gain all the debug advantages of full serial bus decoding and triggering.

The 12-model MSO/DPO2000B Series oscilloscope [2] features bandwidths from 70 MHz to 200 MHz. With industry-leading 1 M point record lengths, these oscilloscopes make it easy to find events of interest in long records using Tektronix' innovative Wave Inspector to perform manual or automated search. Reflecting the wide application of serial interfaces in electronics designs, the new series lowers the cost of serial decode, trigger and search modules by more than 50 percent compared to previous models. In addition, the cost of adding 16 digital channels is lower than before.  Cost of ownership is further reduced with an industry-best 5-year warranty.

The use of electronics has exploded in nearly every industry over the past few years. Now as consumers have become more sophisticated, the pressure is on electronics engineers to offer increased functionality in everything from automobiles and consumer devices to industrial controls andmedical systems. In turn engineers, technicians and educators, often operating with limited budgets, require more capable test instrumentation to keep abreast of the growing demand.

"The MSO2000 oscilloscope offers an absolutely impressive array of features like intuitive operation, high-quality probes and simple to use software modules," said Julian Lana-Sarrate, Senior Electronics Engineering Technologist at LSTS. "Using the Wave Inspector and the 1M point recording I barely had the scope out of the box and I was able to store and drill down to a single noise glitch in a multi-bytetransmission sequence. The protocol analyzer works perfectly too. Now I just run a single shot sweep and almost instantly the byte values appear superimposed over the relevant sections of the waveform."

Within the Tektronix family of oscilloscopes, the new lower-end MSO/DPO2000B Series oscilloscopes give customers using Tektronix TDS2000 Series oscilloscopes an easy upgrade path to a more capable instrument with such features as a 7-inch widescreen display, 1 GS/s sampling rate on all channels and a flexible TekVPI probe interface. The new oscilloscopes are also ideal for education environments where instructors need to keep the classroom and lab experience consistent with real-world industry trends.

For systems designers focused on meeting technical and business program objectives, the MSO/DPO2000B Series provides the performance and features engineers need to validate, characterize and debug complex component and system level issues in embedded designs. This includes decode, trigger and search support for common serial buses including $I^2C$, SPI, RS-232, CAN and LIN. The oscilloscopes also provide advanced triggers to capture anomalies in digital systems including runt pulses, setup and hold violations and rise or fall time violations. All that functionality is packed into a portable 7 lb., 14 oz. package with a small footprint just 5.3 in. deep.

"Tektronix has long maintained a strong leadership position in the entry-level oscilloscope segment. Customers in embedded design, education, service and repair, and manufacturing test rely on our oscilloscopes to bring their electronics products to market," said Dave Farrell, general manager Mainstream Oscilloscopes at Tektronix. "By adding new models, lowering prices and offering a more complete feature set than the competition, we're confident that customers globally will continue to embrace Tektronix as their preferred supplier of cost-effective electronics test instrumentation."

**Availability and pricing**
The MSO/DPO2000BSeries oscilloscope are available now worldwide. Prices range from $1,290 US MSRP for a two-channel 70 MHz DPO2002B oscilloscope to $3,570 for a 200 MHzMSO2024 with four analog channels and sixteen digital timing channels. All models include a standard 5-year warranty.

www.tektronix.com [3]

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