

Tektronix Delivers New Test Solutions for Next Generation Automotive Design and Engineering

As Role of Electronics in Automobiles Expands, New Software Solutions for Innovative 5-Series MSO Oscilloscope Accelerate Design Cycles, Drive Deeper Insight

BEAVERTON, Ore., Nov. 14, 2017 /PRNewswire/ -- Tektronix, Inc., a leading worldwide provider of measurement solutions, today released new automotive-specific software solutions for the 5 Series MSO mixed signal oscilloscope designed to speed up validation and debug and shorten design cycles for the complex electronics systems found in next-generation vehicles. These new automotive solutions take full advantage of key 5 Series MSO innovations including up to 8 channels, 12-bit resolution and its massive high-definition capacitive touch display and highly intuitive user interface.

The automotive industry has been undergoing dramatic changes, driven by digital innovations ranging from intelligent self-driving vehicles to electronics systems replacing or augmenting traditional electro-mechanical systems. Complicating matters, however, are the need for newer mid- and high-speed serial buses such as CAN FD (5-10 Mb/s) and Automotive Ethernet to co-exist with other automotive bus technologies including LIN, FlexRay, MOST and others. With this release for the 5 Series MSO, Tektronix gives automotive engineers the ideal solution for analyzing and troubleshooting electronic control units (ECUs) and multiple buses across all vehicle subsystems.

"These solutions for the 5 Series MSO will enable automotive engineers working on next generation vehicles to gain a richer view of complex systems, solve problems faster and keep projects on schedule," said Brian Ice, general manager, Mainstream Oscilloscopes at Tektronix. "Unlike alternatives that are limited to four channels, the 5 Series MSO gives customers the ability to synchronously capture much more information and compare interactions for faster and more efficient troubleshooting and debug."

The new automotive solutions for the 5 Series MSO include the following:

- 5-SRAUTO protocol option package offers complete serial triggering and analysis of the major buses used in the automotive industry, including CAN, CAN FD, LIN and FlexRay. CAN FD support includes non-ISO and ISO versions of the standard.
- 5-CMAUTOEN Automotive Ethernet solution provides automated compliance support for the IEEE P802.3bw (100BASE-T1) and BroadR-Reach V3.2 specification requirements. This automated compliance solution includes test software that runs on the 5 Series MSO while performing Physical Media Attachment (PMA) transmitter Group 1 electrical measurement compliance tests, as defined by the OPEN Alliance Special Interest Group (SIG) standard for automotive Ethernet.

Redefining the midrange oscilloscope

The new capabilities expand the applications supported by the 5 Series MSO that is redefining the midrange oscilloscope with a host of innovations including the industry's first FlexChannel™ technology that allows 4, 6 or 8 analog channels and up to 64 digital channels, integrated protocol analysis and signal generator, a new 12-bit signal acquisition system, 15.6-in. capacitive touch display, and a highly intuitive user interface — delivering unprecedented flexibility and unmatched visibility into complex embedded systems.

Pricing and availability

The automotive solutions offerings for the 5 Series MSO oscilloscope are available now. The 5-CMAUTOEN solution is priced at \$3,500 and 5-SRAUTO is priced at \$1,850. For more information on the full range of Tektronix automotive solutions go to: <https://www.tek.com/automotive-0>

Wondering what else Tektronix is up to? Check out the Tektronix [Bandwidth Banter blog](#) and stay up to date on the latest news from Tektronix on [Twitter](#) and [Facebook](#).

About Tektronix

Headquartered in Beaverton, Oregon, Tektronix delivers innovative, precise and easy-to-operate test, measurement and monitoring solutions that solve problems, unlock insights and drive discovery. Tektronix has been at the forefront of the digital age for over 70 years. Join us on the journey of innovation at TEK.COM.

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Additional assets available online:  [Photos \(1\)](#)

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