

Press Release

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Teledyne LeCroy Strengthens Industry Leading CAN and CAN FD Solutions with Support for Analysis on the SYMBOLIC Layer

Chestnut Ridge, NY, July 21, 2015 — Teledyne LeCroy, the pioneer of serial data trigger and decode in oscilloscopes, today announced the addition of Symbolic (Application) layer analysis capabilities to their unique and industry leading CAN and CAN FD serial trigger, decode, measurement, and graphing solutions. Teledyne LeCroy is the only provider of CAN FD measurement and graphing capabilities, and was the first to provide a trigger and decode solution for CAN FD. The new CAN and CAN FD Symbolic analysis packages allow a user-defined .dbc file to be used for Symbolic triggering, decoding, measurements, and graphing of a CAN or CAN FD bus. This creates a more user-friendly environment for CAN developers to work in and removes the need for a manual lookup or conversion from the typical hexadecimal or binary format. All Teledyne LeCroy CAN FD trigger and decode packages support both ISO and non-ISO frames per the ISO 11898-1 standard.

A Unique Combination of CAN and CAN FD Analysis Capabilities

The ability to perform analysis directly on the Symbolic layer will greatly increase efficiency when working with Teledyne LeCroy's powerful CAN toolset. When debugging using the oscilloscope to trigger on the Symbolic layer, it is simple to isolate a particular troublesome sequence of events by triggering on a specific message or range of values for a given message. The CAN and CAN FD decoders create an intuitive color-coded overlay directly on top of the physical layer waveform making it easy to quickly identify the different sections of the frame and rapidly flag any errors. Teledyne LeCroy offers the unique ability to take CAN and CAN FD analysis to the next level by using the .dbc file to extract the encoded values to perform precise timing measurements which correlate to specific occurrences on the bus. Furthermore, these extracted values can be plotted to provide a visual representation of how behavior is changing over time. The combination of these tools provide unprecedented insight in to CAN systems, correlating physical layer signals and protocol layer data on a single display while also measuring and plotting bus performance.

Along with having the best method of displaying decoded data, Teledyne LeCroy offers the ability to decode four busses simultaneously. These four busses can be a combination of any protocols, including CAN FD and classic CAN at the same time. Decoded data can also be seen in an interactive table. Entries in this table can be selected and automatically zoomed, preventing the need to scroll through long records. A search function is built in to the zoom trace to quickly locate a specific Frame ID or data message.

Pioneering Automotive Trigger and Decode Solutions Since 2004

Teledyne LeCroy pioneered serial data trigger and decode in an oscilloscope with the introduction of the original CAN trigger and decode product in 2004. Since then, the patented algorithms used to deconstruct physical layer serial data signals and display decoded data have been deployed to simplify the design and debug of automotive systems using LIN, FlexRay, SENT and now CAN FD. In addition to support for automotive standards, Teledyne LeCroy has a broad range of serial bus solutions ranging from I2C and UART to USB3 and PCIe® Gen 3.

About Teledyne LeCroy

Teledyne LeCroy is a leading manufacturer of advanced test instruments that measure, analyze, and verify complex electronic signals. The Company offers high-performance oscilloscopes and protocol test solutions used by electronic design engineers in a wide range of application and end markets. Teledyne LeCroy is based in Chestnut Ridge, N.Y. For more information, visit Teledyne LeCroy's website at teledynelecroy.com.