

PRESS RELEASE

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Yokogawa Introduces an I²C Bus Trigger & Analysis Option for their 200 MHz Long Memory Digital Oscilloscopes

Newnan, GA - Today Yokogawa Corporation of America introduced a new I²C Bus trigger and analysis option for their DL1640 & DL1640L DSOs (digital storage oscilloscopes). The I²C Bus option gives designers and users of I²C devices the ability to quickly trigger off certain conditions in an I²C signal. With the acquired I²C bus data, this option enables you to quickly search the data for a particular address or data pattern or simply scroll through the acquired data as it is displayed in either binary or hexadecimal format.

The option supports a maximum transmit rate on the bus of 3.4Mbit/sec and a 7-bit address mode. Additionally, the option is compliant with the SM (System Management) bus standard and includes SPI bus analysis functions.

Set up the I²C trigger by putting the SCL (serial clock) signal into Channel 1 of the DSO and the SDA (serial data) signal into Channel 2. Channels 3 and 4 of the DSO can be used to acquire data from another I²C bus (SCL and SDA) or any other analog or control signals.

The DSO can trigger in a number of ways:

Start condition: DSO triggers on the first falling edge of the SCL signal after the start condition is detected

Non-Acknowledge: DSO triggers when the Acknowledge bit is not present

Address & Data: DSO triggers when the user-defined address or data pattern occurs. You can trigger off a specific address, a specific data pattern, or a combination of both.

Additionally, the above triggers can be combined with signal conditions on Channels 3 and/or 4. For example, you could set up the DSO to trigger when the signal on Channel 3 is high, Channel 4 is low, and an I²C Start condition is detected.

The I²C bus option also provides an easy way to analyze acquired data. All the acquired data can be displayed in either binary or hexadecimal format for quick and easy viewing. As you scroll through the data, the instrument's zoom window tracks your position so you can always see where in your acquisition a particular event occurred. Specific addresses and/or data patterns can be automatically located by simply pressing one key. This saves the drudgery of having to sort through long strings of data bit-by-bit.

Data analysis functions also exist for SPI buses.

The I²C Bus option is available on the DL1640 and DL1640L for \$650 and will be ready for delivery in mid-July. Both the DL1640 and DL1640L have a 200 MHz bandwidth and can sample on four channels simultaneously at speeds up to 200 Msamples/sec. The DL1640L has a maximum memory of 32Mword/channel on four channels and the DL1640 has a maximum memory of 8 Mword/channel on four channels.

For additional information about the I²C Bus option for the DL1640 and DL1640L, please visit <http://us.yokogawa.com/> or call 770-254-0400, or toll-free at 800-258-2552.

About Yokogawa Corporation of America

Yokogawa Corporation of America is the North American unit of \$3 billion Yokogawa Electric Corporation, a global leader in the manufacture and supply of instrumentation, process control, and automation solutions. Headquartered in Newnan, Georgia, Yokogawa Corporation of America serves a diverse customer base with market-leading products including analyzers, flowmeters, transmitters, controllers, recorders, data acquisition products, meters, instruments, distributed control systems, and more.

For more information about Yokogawa Corporation of America, visit us.yokogawa.com, call 770-254-0400, or toll-free at 800-258-2552.