Serial Bus Testing

Using Infiniium EXR-Series Oscilloscopes

Keysight's Infiniium EXR-Series oscilloscopes have protocol-specific software options that can trigger on and decode serial buses. Ensure that your electronic devices are in accordance with today's standards by testing and debugging with an EXR-series scope.

Knowing what to order for your serial bus decode and triggering measurement applications can be daunting, so we have simplified this task by summarizing the following hardware and software options to consider for your Keysight Infiniium EXR-Series oscilloscope.

Suggested Oscilloscope and Hardware Options	
EXR108A	1 GHz bandwidth, 8-channel oscilloscope
EXR2WAV	50 MHz arbitrary waveform generator
EXR2MSO	16 digital logic channels
EXR2MEM-001	100 Mpts/ch to 200 Mpts/ch acquisition memory upgrade

Suggested Software Options	
D9010LSSP *	I^2C, SPI, Quad-SPI, RS232/UART, JTAG, I^2S, SVID, User-definable Manchester
D9010EMBP *	USB 2.0, USB-PD, 10/100 Mbps Ethernet
D9010USBP *	USB 2,0, eUSB2, Superspeed USB (5 Gbps)
D9010AUTP *	CAN/CAN FD, SENT
D9020AUTP	100BASE-T1 Automotive Ethernet
D9010MILP *	MIL-STD 1553, ARINC 429, SpaceWire
D9011BDLP	Basic Infiniium Protocol Trigger/Decode Bundle **(Includes all packages with asterisk (*) above)**

For more information, contact an authorized distributor or go to www.keysight.com/find/exr

Serial Bus Decoding

Serial buses are used extensively in today's automotive, IoT, consumer electronics and telecommunication fields.

Using the right set of tools to test serial buses is critical for evaluating system communication.

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