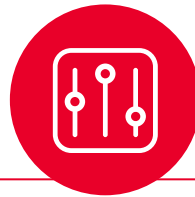# Infiniium EXR-Series Oscilloscope

Innovation Made Faster

The Infiniium EXR-Series combines the signal integrity and capabilities of our high-performance UXR-Series scope with the instrument integration and speed of our InfiniiVision scopes. The EXR is 7 instruments in 1: a mixed signal oscilloscope, protocol analyzer, logic analyzer, waveform generator, frequency response analyzer, counter, and digital voltmeter. Keysight's Infiniium EXR and MXR-Series oscilloscopes are the only scopes in the market that support up to 6 GHz of bandwidth on all eight channels simultaneously.

POWERFUL

- Capture infrequent physical-layer anomalies with an always-fast update rate and an uncompromised sample rate on all channels.

- Find anomalies quickly by triggering on and decoding over 45 protocols while correlating analog and digital domains synchronously.

- Save test time with automated power measurements, debug tools, and compliance testing to industry standards.

EASY TO OWN

- Reduce bench clutter and get more out of your budget by purchasing one unit that has seven different instruments built in.

- Optimize your lab time by analyzing testing results on your PC anywhere and at any time with Infiniium Offline.

- Future-proof your budget by investing in what you need today, and adding more functionality later with full upgradeability.

INTUITIVE TO USE

- Get the performance you need from your oscilloscope without having to set up, manage, and employ special modes.

- Easily debug with confidence using Fault Hunter, our automated debug software that comes standard on every scope.

- Save test setup time with automated setup wizards and one-click "Quick" features for measurements, trigger/decode, built-in help tools, and more.

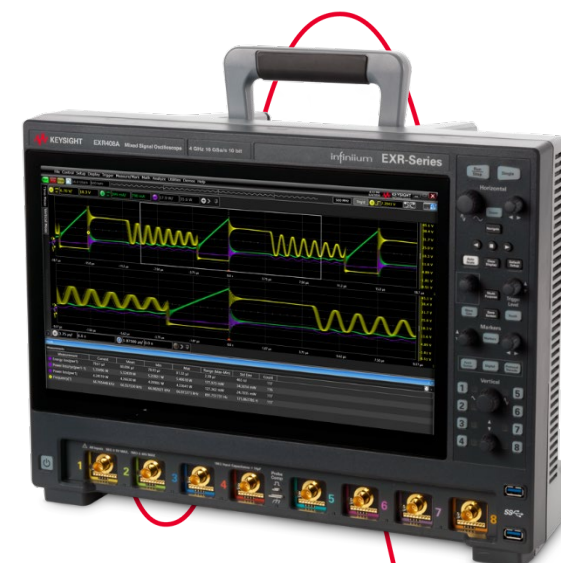KEYSIGHT

Customize Your Oscilloscope According to Your Needs

Specifications	Keysight EXR-Series
Channels	4 or 8, upgradeable
Bandwidth	500 MHz to 6 GHz, upgradeable
Sample rate	16 GSa/s on every channel
Standard memory	100 Mpts/ch to 1.6 Gpts/ch flexible memory, upgradeable
Resolution	Up to 16 bits w/ high-res
Logic channels	16, dedicated input
Update rate	> 200,000 wfm/s on every channel
ENOB	Up to 9
Screen display	15.6" (1920 x 1080 pixels)

Post-Purchase Upgrades	Keysight EXR-Series
Add analog bandwidth, up to 6 GHz	EXR2BW
Add analog channels, 4 to 8 (requires shipment to service center)	EXR28CH
Add memory, 200 Mpts/ch, 400 Mpts/ch, or 1.6 Gpts/ch flexible memory	EXR2MEM
Add waveform generator, 50 MHz	EXR2WAV
Add MSO, 16 channels	EXR2MSO

Application-Specific Analysis Packages	Description	Software Model
Signal Integrity	Advanced Signal Integrity Analysis (EQ, InfiniiSimAdv, Crosstalk)	D9110ASIA
	De-embedding Software (PrecisionProbe, InfiniiSim Basic)	D9110DMBA
	EZJIT Complete — Jitter, Vertical and Phase Noise Analysis Software	D9110JITA
	InfiniiScan Event Identification Software	D9110SCNA
Power	Power Integrity Analysis Software	D9110POWA
	Power Supply Test Software	D9110PWRA
Advanced Analysis	Pulse Amplitude Modulation PAM-N Analysis Software	D9110PAMA
	User Defined Application Software	D9110UDAA

Compliance Testing Packages	Description	Recommended Bandwidth	Software Model
USB 2.0	USB 2.0 Transmitter	2 GHz	D9010USBC
Ethernet	10M/100M/1GBASE-T and Energy Efficient Ethernet	1 GHz	D9010ETHC
Ethernet	10G, MG Base-T, N-Base-T	4 GHz	D9010EBZC
Automotive Ethernet	1000BASE-T1	2.5 GHz	AE6910T
	100BASE-T1	1 GHz	
	10BASE-T1	500 MHz	
C-PHY	MIPI C-PHY, up to 1.5 Gbps	6 GHz	D9010CPHC
D-PHY	MIPI D-PHY, up to 1.5 Gbps (up to CTS v1.2)	6 GHz	D9020DPHC
JEDEC	DDR3 and LPDDR3 Compliance Test Software	6 GHz	D9030DDRC

Industry-Specific Protocol Packages	Description	Software Model
Low Speed Serial	I2C, SPI, Quad SPI, eSPI, Quad eSPI, RS232, UART, JTAG, I2S, SVID, Manchester	D9110LSSP
Embedded	USB 2.0, 10/100 Mb/s Ethernet, USB-PD, PCIe Gen 1 (decode)	D9110EMBP
Low Speed Automotive	CAN, LIN, CAN-FD, SENT, FlexRay, CAN XL	D9110AUTP
MIPI Low Speed	RFFE, I3C, SPMI	D9110MPLP
MIPI C-PHY, D-PHY	C-PHY/D-PHY based CSI & DSI (Up to 2.5 Gbps)	D9110MCDP
MIPI M-PHY	CSI 3, DigRFv4, LLI, UniPro, UFS, SSIC (Up to Gear 1 Speed)	D9110MPMP
Military	ARINC 429, MIL-STD 1553, SpaceWire	D9110MILP
High Speed Automotive	100BASE-T1 Automotive Ethernet	D9120AUTP
USB	USB 2.0, USB-PD, eUSB2, USB4 LS (decode)	D9110USBP
Infiniium Basic Bundle	Includes D9110LSSP, D9110EMBP, D9110MPLP, D9110MILP, D9110AUTP	D9111BDLP

Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at www.keysight.com.

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