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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight EXR608A

Agilent Keysight EXR608A Infiniium EXR-Series Oscilloscope The Keysight EXR608A is an Infiniium EXR-Series oscilloscope with 6 GHz analog bandwidth on 8 channels and 16 GSa/s sample rate on every channel. OEM EXR data sheets list 10-bit ADC resolution (up to 16-bit high-resolution), 100 Mpts/ch standard memory, and optional 16 digital MSO channels. High-speed digital debug, multi-lane serial analysis, power integrity, and general-purpose high-bandwidth multi-channel capture. Sample Rate Real Time: 16 GSa/s all analog channels The Keysight EXR608A is an Infiniium EXR-Series oscilloscope with 6 GHz analog bandwidth on 8 channels and 16 GSa/s sample rate on every channel. OEM EXR data sheets list 10-bit ADC resolution (up to 16-bit high-resolution), 100 Mpts/ch standard memory, and optional 16 digital MSO channels. High-speed digital debug, multi-lane serial analysis, power integrity, and general-purpose high-bandwidth multi-channel capture. Sample Rate Real Time: 16 GSa/s all analog channels Vertical Resolution: 10 bits up to 16 bits with high resolution mode

MODEL **Agilent / Keysight EXR608A**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **EXR608A**	LISTING **https://aumictechlabs.com/products/exr608a-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight EXR608A is an 8-channel mixed-signal oscilloscope delivering 6 GHz bandwidth and 16 GSa/s sample rate simultaneously across all analog channels. Built on a 100M+ gate CMOS ASIC architecture, it combines oscilloscope, logic analyzer, protocol analyzer, digital voltmeter,

frequency counter, frequency response analyzer, and arbitrary waveform generator into a single instrument. The EXR608A captures complex transients and modulated signals with 10-bit vertical resolution (up to 16 bits in high-resolution mode), 43 µV noise floor, and ENOB up to 9.0 bits.Standard memory depth of 100 Mpts per channel expands to 400 Mpts or 1.6 Gpts maximum, enabling segmented capture of over 100,000 post-trigger events and review of up to 1,024 previous trigger events via History Mode.Technical Specifications Bandwidth: 6 GHz on all 8 analog channels simultaneously Sample Rate: 16 GSa/s on all analog channels simultaneously Vertical Resolution: 10 bits; up to 16 bits with high-resolution mode Effective Number of Bits (ENOB): Up to 9.0 Noise Floor: 43 µV minimum Real-time Waveform Update Rate: >200,000 waveforms/sec Memory Depth: 100 Mpts/channel standard; upgradeable to 400 Mpts/channel or 1.6 Gpts maximum Rise/Fall Time: 71.7 ps typical Digital Logic Channels: 16 optional (EXR2MSO option)Key Features Advanced three-stage triggering: Edge, Pulse Width, Glitch, Runt, Time Out, Pattern, Burst Over 50 standard measurements with math functions, FFT, and histograms Segmented memory for capture >100,000 events; History Mode reviews 1,024 prior triggers Digital Voltmeter: ACRMS, DC, DCRMS; 4 digits; 100/sec update rate Frequency Counter: 5–10 digits; 64-bit; Frequency, Period, Totalize, Ratio modes 15.6-inch capacitive multi-touch Full HD display (1920×1080) with external monitor support Dual USB 3.0 connectivity (6 host, 1 device) and LAN interfaceMeasurement & Analysis Fault Hunter and serial data analysis capabilities enable rapid signal characterization. Frequency Response Analyzer and integrated AWG support system validation across analog and mixed-signal domains.Compatibility & Integration LAN (RJ-45) and USB 3.0 interfaces provide remote control and data transfer. Optional 16-channel digital logic expansion (EXR2MSO) scales the instrument for complex digital/analog correlation.

EXR608A Characteristics / Specifications

PARAMETER	VALUE
Model	EXR608A
Analog Bandwidth 50 Ohm	6 GHz
Analog Bandwidth 1 MOhm	500 MHz
Analog Channels	8
Sample Rate Real Time	16 GSa/s all analog channels
Sample Resolution	62.5 ps
Vertical Resolution	10 bits up to 16 bits with high resolution mode
ENOB Class	as high as 9.0
Standard Memory Depth	100 Mpts per channel
Typical Rise Time 10/	71.7 ps
Typical Rise Time 20/	51.7 ps
Real Time Update Rate	greater than 200000 waveforms per second
Digital Logic Channels Optional	16 dedicated MSO input
Display	15.6 inch touch full HD dual screen support
Input Impedance 50 Ohm	50 ohm plus or minus 3.5 percent
Input Impedance 1 MOhm	1 MOhm plus or minus 1 percent (14 pF typical)
Series Family	Infiniium EXR-Series
Brand Lineage	Agilent / Keysight
Form Factor	benchtop InfiniiumEye Diagram Speed Class: greater than 750000 UI/s
Bandwidth Upgrade Path	at maximum 6 GHz family bandwidth
Channel Upgrade Path	already 8 analog channels
Bandwidth	50 Ohm: 6 GHz
Rise Time	10/90: 71.7 ps

EXR608A Specifications

PARAMETER	VALUE
Key Features	6 GHz bandwidth on all analog channels
Technical Specifications	Model: EXR608A
Notes	From Keysight Infiniium EXR-Series data sheet model table for EXR608A.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

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Sample Resolution	62.5 ps
Vertical Resolution	10 bits up to 16 bits with high resolution mode
ENOB Class	as high as 9.0
Standard Memory Depth	100 Mpts per channel

Optional Memory 400 Mpts: 400 Mpts per channel option path
Optional Flexible Memory: 1.6 Gpts combined flexible memory option path

Specifications

PARAMETER	VALUE
Typical Rise Time 10/90	71.7 ps
Typical Rise Time 20/80	51.7 ps
Real Time Update Rate	greater than 200000 waveforms per second
Digital Logic Channels Optional	16 dedicated MSO input
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Bandwidth Upgrade Path	at maximum 6 GHz family bandwidth
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Notes
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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