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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MXR208A

Keysight Infiniium MXR208A Real Time Oscilloscope 2 GHz 8 Channel The Keysight Infiniium MXR208A is an MXR-Series real-time oscilloscope with 2 GHz analog bandwidth (-3 dB) on the 50 ohm path and 8 analog channels. The OEM Infiniium MXR-Series data sheet lists 16 GSa/s sample rate on every channel, 200 Mpts standard memory per channel, 10 bit vertical resolution (up to 16 bits in high-resolution mode), timebase accuracy of 8 ppb, intrinsic jitter as low as 118 fs, and a 15.6 inch full HD touch display. The Keysight Infiniium MXR208A is an MXR-Series real-time oscilloscope with 2 GHz analog bandwidth (-3 dB) on the 50 ohm path and 8 analog channels. The OEM Infiniium MXR-Series data sheet lists 16 GSa/s sample rate on every channel, 200 Mpts standard memory per channel, 10 bit vertical resolution (up to 16 bits in high-resolution mode), timebase accuracy of 8 ppb, intrinsic jitter as low as 118 fs, and a 15.6 inch full HD touch display. High-speed digital debug, power integrity and rail analysis, protocol decode, compliance testing, and multi-channel RF analysis with optional RTSA/DDC on the Infiniium MXR platform.



MODEL

**Agilent / Keysight
MXR208A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MXR208A

LISTING

<https://aumictechlabs.com/products/mxr208a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MXR208A is a mixed-signal oscilloscope delivering 2 GHz bandwidth across 8 analog channels with 16 dedicated digital channels. Simultaneous sampling at 16 GSa/s across all

channels, configurable memory up to 1.6 Gpts, and 10-bit ADC resolution (expandable to 16 bits) make this instrument suitable for complex signal analysis in digital and analog design environments. The platform integrates eight measurement and analysis tools - logic analyzer, protocol analyzer, DVM, counter, real-time spectrum analyzer, Bode plotter, and waveform generator - reducing bench footprint while maintaining isolation between functions.

Technical Specifications

- Bandwidth: 2 GHz on all 8 analog channels; upgradeable
- Analog Channels: 8 (upgradeable)
- Digital Channels: 16 dedicated input (upgradeable)
- Sample Rate: 16 GSa/s simultaneous across all channels
- Memory Depth: Standard 200 Mpts per channel; upgradeable to 400 Mpts/ch or 1.6 Gpts flexible
- ADC Resolution: 10 bits native; up to 16 bits in high-resolution mode
- Effective Number of Bits (ENOB): Up to 9.0
- Noise Floor: 43 μ V minimum
- Rise/Fall Time: 430 ps (10-90%); 310 ps (20-80%)
- Waveform Update Rate: >200,000 wfm/s
- Display: 15.6" Full HD (1920 $\times$ 1080) touch screen; dual-screen capable
- Timebase Accuracy: 8 parts per billion
- Intrinsic Jitter: 118 fs minimum
- Operating System: Windows 10

Key Features

- ASIC technology for accelerated test execution
- Hardware acceleration for plotting, eye diagrams, FFT, and waveform averaging
- 14-mode flexible triggering: edge, glitch, pulse width, pattern/state, runt, setup/hold, edge transition, edge-then-edge, timeout, window, OR'd edges, Nth edge, burst, and sequential
- Scan zone triggering capability
- Over 50 standard automated measurements with statistical analysis
- 1,024-event history mode for post-trigger review
- Segmented memory capturing up to 5,205 events with no inter-event limits
- Connectivity & Integration
- USB 3.0 for data export and peripherals
- LAN port for network connectivity
- VGA and DisplayPort for external display support
- AutoProbe interface compatibility
- Includes one N2873A 500 MHz passive probe per channel
- Wide range of optional active and differential probe options

MXR208A Characteristics / Specifications

PARAMETER	VALUE
Model	MXR208A
Instrument Family	Infiniium MXR-Series
Analog Bandwidth Fifty Ohm	2 GHz
Analog Bandwidth One Megohm	500 MHz
Analog Channels	8
Digital Logic Channels	16 optional via MXR2MSO
Sample Rate Real Time	16 GSa/s all analog channels
Sample Resolution	62.5 ps
Vertical Resolution	10 bits up to 16 bits high resolution mode
Standard Memory Depth	200 Mpts per channel
Extended Memory Depth	400 Mpts per channel or 1.6 Gpts combined flexible memory
Real Time Update Rate	greater than 200000 waveforms per second
Eye Diagram Plot Rate	greater than 750000 UI per second
Timebase Accuracy	8 ppb initial plus 75 ppb per year aging
Intrinsic Jitter Four Channel Models	118 fs rms at 100 ns/div
Intrinsic Jitter Eight Channel Models	150 fs rms at 100 ns/div
Inter Channel Intrinsic Jitter	100 fs rms
Lowest Noise One Millivolt Per Division	as low as 43 uV (20 MHz high resolution path)
Rms Noise Floor At Model Bandwidth	91 uV at 1 mV/div on 50 ohm inputs
Effective Number Of Bits At Model Bandwidth	7.6 at 50 mV/div on 50 ohm inputs
Typical Rise Time Ten Ninety	215 ps
Typical Rise Time Twenty Eighty	155 ps
Input Impedance Fifty Ohm	50 ohm plus or minus 3.5 percent
Input Impedance One Megohm	1 Mohm plus or minus 1 percent (14 pF typical)
Input Sensitivity Fifty Ohm	1 mV/div to 1 V/div

PARAMETER	VALUE
Input Sensitivity One Megohm	1 mV/div to 5 V/div
Max Input Voltage Fifty Ohm	plus or minus 5 V max
Max Input Voltage One Megohm	30 Vrms or plus or minus 40 V max
Dc Gain Accuracy	plus or minus 2 percent full scale (plus or minus 1 percent typical)
Channel Isolation Adjacent Dc To Two Gigahertz	less than or equal to -60 dB
Display	15.6 inch touch full HD 1920×1080 with dual screen support
Waveform Generator Bandwidth	50 MHz with MXR2WAV
Rtsa Analysis Bandwidth Standard	40 MHz
Rtsa Analysis Bandwidth Extended	160 MHz or 320 MHz with MXR2RTSA
Dimensions Height	327.5 mm (12.9 in)
Dimensions Width	444.5 mm (17.5 in)
Dimensions Depth	224.1 mm (8.85 in)
History Mode Depth	up to 1024 previous acquisitions
Segmented Memory Acquisitions	up to 78953 future acquisitions
Max Edge Trigger Frequency	6 GHz on 50 ohm path
Digital Channel Bandwidth	300 MHz with MSO
Digital Channel Sample Rate	8 GSa/s with MSO
Bandwidth	Fifty Ohm: 2 GHz
Rise Time	Ten Ninety: 215 ps

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.

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Digital Channel Bandwidth	300 MHz with MS0
Digital Channel Sample Rate	8 GSa/s with MS0

Notes

Bandwidth, channel count, rise/fall times, sample rate, memory, noise, ENOB, timebase, jitter, input ranges, display size, and dimensions from the Keysight Infiniium MXR-Series data sheet performance characteristics and model number table (MXR05xA through MXR60xA rows). Model MXR208A uses the MXR family row matching 2 GHz bandwidth.

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

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.