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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MXR058A

Keysight Infiniium MXR058A Real Time Oscilloscope 500 MHz 8 Channel The Keysight Infiniium MXR058A is an MXR-Series real-time oscilloscope with 500 MHz 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 MXR058A is an MXR-Series real-time oscilloscope with 500 MHz 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
MXR058A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MXR058A****LISTING**<https://aumictechlabs.com/products/mxr058a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MXR058A is an 8-channel real-time oscilloscope combining high-speed analog capture with integrated spectrum analysis and protocol tools. With a base bandwidth of 500 MHz

upgradeable to 6 GHz, 16 GSa/s sample rate across all channels, and up to 1.6 Gpts memory, the MXR058A delivers the speed and depth required for high-speed serial and power integrity analysis. Hardware-accelerated eye diagrams exceed 750,000 UI/s at 10 bits, while flexible three-stage triggering and real-time spectrum analysis enable rapid fault isolation and signal characterization.

Technical Specifications

Channels: 8 analog (upgradeable) Bandwidth: 500 MHz base, upgradeable to 6 GHz Sample Rate: 16 GSa/s on all 8 channels Memory: 200 Mpts standard per channel; upgradeable to 400 Mpts or 1.6 Gpts maximum ADC Resolution: 10 bits (high-resolution mode to 16 bits) Effective Number of Bits (ENOB): Up to 9.0 Noise: 43 μ V minimum Absolute Accuracy: 8 parts per billion Display: Full HD (1920×1080 pixels) with external monitor support

Key Features

Hardware-accelerated eye diagrams (>750,000 UI/s @ 10 bits) via UXR-Series ASIC Real-time spectrum analyzer (RTSA) with jitter and noise analysis Jitter measurements including PAM-N signals, NRZ eye contour, 48-edge jitter, and RLM (PCIe 6 compliance) PrecisionProbe for probe/cable/fixtures characterization InfiniiSim for measurement-based modeling Equalization and crosstalk/power integrity analysis packages Over 50 standard measurements Flexible three-stage triggering

Instrument Integration (8-in-1)

Oscilloscope Real-time spectrum analyzer 4-digit DVM 10-digit counters 50 MHz waveform generator (optional) 16 digital channels (MSO option)

Compatibility & Integration

Fully upgradeable platform supporting bandwidth and channel expansion. Keysight I/O libraries suite and comprehensive programmer's guide included.

MXR058A Characteristics / Specifications

PARAMETER	VALUE
Model	MXR058A
Instrument Family	Infiniium MXR-Series
Analog Bandwidth Fifty Ohm	500 MHz
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	63 uV at 1 mV/div on 50 ohm inputs
Effective Number Of Bits At Model Bandwidth	8.2 at 50 mV/div on 50 ohm inputs
Typical Rise Time Ten Ninety	860 ps
Typical Rise Time Twenty Eighty	620 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: 500 MHz
Rise Time	Ten Ninety: 860 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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Max Edge Trigger Frequency	6 GHz on 50 ohm path
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 MXR058A uses the MXR family row matching 500 MHz 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.