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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MXR404A

Keysight Infiniium MXR404A Real Time Oscilloscope 4 GHz 4 Channel The Keysight Infiniium MXR404A is an MXR-Series real-time oscilloscope with 4 GHz analog bandwidth (-3 dB) on the 50 ohm path and 4 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 MXR404A is an MXR-Series real-time oscilloscope with 4 GHz analog bandwidth (-3 dB) on the 50 ohm path and 4 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
MXR404A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MXR404A****LISTING**<https://aumictechlabs.com/products/mxr404a-2/>

NIST-traceable cal

SAM registered

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NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight MXR404A is a 4 GHz, 4-channel mixed-signal oscilloscope built for signal integrity analysis, debugging, and validation in advanced electronics design and test

environments. It delivers 16 GSa/s sampling across all analog channels with up to 9.0 ENOB and a 43 μ V noise floor. The instrument provides flexible memory scaling from 100 Mpts to 1.6 Gpts per channel and functions as eight integrated instruments in one platform, including a Real-Time Spectrum Analyzer, Logic Analyzer, Digitally Down-Converter, and protocol analysis tools.

Technical Specifications

Oscilloscope Core Bandwidth: 4 GHz on all 4 analog channels; upgradeable options available Analog Channels: 4 standard; upgradeable to 8 Sample Rate: 16 GSa/s across all analog channels Memory Depth: 100 Mpts/channel standard; upgradeable to 400 Mpts/channel or 1.6 Gpts flexible memory Vertical Resolution: 10 bits; up to 16 bits in high-resolution mode Effective Number of Bits (ENOB): Up to 9.0 Noise Floor: 43 μ V minimum Timebase Accuracy: 8 parts per billion Intrinsic Jitter: 118 fs minimum Rise/Fall Time: 430 ps (10-90%); 310 ps (20-80%) Waveform Update Rate: Greater than 200,000 waveforms/second

Integrated Analysis Instruments

Logic Analyzer: 16 digital channels; 8 GSa/s sample rate; 400 MHz toggle rate; per-nibble threshold configuration

Real-Time Spectrum Analyzer (RTSA): 40 MHz analysis bandwidth standard; upgradeable to 160 MHz or 320 MHz on 4 or 8 center frequencies

Digitally Down-Convert (DDC): All 8 channels simultaneously; up to 2 GHz analysis bandwidth

Waveform Generator: 50 MHz optional

Digital Voltmeter: 4-digit; AC RMS, DC, and DC RMS measurement

Counters: 10-digit; frequency, period, totalize, and ratio functions

Protocol Analyzer and Bode Plotter: Optional modules available

Key Features

Three-stage flexible triggering with over 50 standard measurements

Trigger types: Edge, glitch, pulse width, pattern/state, runt, setup and hold, window, timeout, and sequential triggering

InfiniiScan zone triggering with automated finders for measurements, serial bit streams, and runts

Fully upgradeable architecture for bandwidth and channel expansion

Typical Applications

Signal integrity characterization, high-speed digital validation, mixed-signal circuit debugging, frequency-domain analysis, and protocol compliance testing.

Compatibility & Integration

Supports simultaneous operation of oscilloscope, spectrum analyzer, and logic functions. DDC extends analysis beyond the oscilloscope's native bandwidth with optional frequency extension.

MXR404A Characteristics / Specifications

PARAMETER	VALUE
Model	MXR404A
Instrument Family	Infiniium MXR-Series
Analog Bandwidth Fifty Ohm	4 GHz
Analog Bandwidth One Megohm	500 MHz
Analog Channels	4
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	132 uV at 1 mV/div on 50 ohm inputs
Effective Number Of Bits At Model Bandwidth	7.2 at 50 mV/div on 50 ohm inputs
Typical Rise Time Ten Ninety	107.5 ps
Typical Rise Time Twenty Eighty	77.5 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: 4 GHz
Rise Time	Ten Ninety: 107.5 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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Input Sensitivity One Megohm	1 mV/div to 5 V/div
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Segmented Memory Acquisitions	up to 78953 future acquisitions
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 MXR404A uses the MXR family row matching 4 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

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

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Generated August 15, 2026

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