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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSO8104A

Keysight / Agilent MSO8104A Infiniium Mixed Signal Oscilloscope 1 GHz The Keysight/Agilent MSO8104A is an Infiniium 8000 Series mixed-signal oscilloscope with 1 GHz bandwidth, 4 analog channels, and 16 digital channels. OEM Infiniium 8000 literature lists up to 4 GSa/s sample rate class, deep MegaZoom memory, and Infiniium analysis applications for high-speed mixed-signal debug. High-speed digital validation, mixed-signal timing analysis, and Infiniium 8000 lab measurements to 1 GHz. One gigahertz four-channel analog bandwidth The Keysight/Agilent MSO8104A is an Infiniium 8000 Series mixed-signal oscilloscope with 1 GHz bandwidth, 4 analog channels, and 16 digital channels. OEM Infiniium 8000 literature lists up to 4 GSa/s sample rate class, deep MegaZoom memory, and Infiniium analysis applications for high-speed mixed-signal debug. High-speed digital validation, mixed-signal timing analysis, and Infiniium 8000 lab measurements to 1 GHz. One gigahertz four-channel analog bandwidth

Instrument Type: Mixed signal oscilloscope



MODEL

**Agilent / Keysight
MSO8104A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSO8104A

LISTING

<https://aumictechlabs.com/products/mso8104a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSO8104A is a 1 GHz mixed-signal oscilloscope engineered for simultaneous acquisition and analysis of analog, digital, and serial protocol signals. It combines 4 analog channels with 16 digital channels to deliver comprehensive visibility into complex embedded

systems, microcontroller behavior, and signal integrity across multiple domains.

Technical Specifications

Bandwidth: 1 GHz analog
Analog Channels: 4
Digital Channels: 16
Sample Rate: 4 GSa/s
Memory Depth: 8 Mpts standard; up to 128 Mpts maximum with options (4, 8, 16, 32, or 64 Mpts per-channel configurations available)
Acquisition Rate: Up to 2000 waveforms/sec
Vertical Resolution: 8 bits (exceeds 12 bits with averaging)
Rise Time: 350 ps at 50 Ω
Input Impedance: 1 M Ω $\pm$ 1% (13 pF typical) or 50 Ω $\pm$ 1.5%
Vertical Sensitivity: 1 mV/div to 5 V/div
Display: 8.4-inch XGA color TFT-LCD with 256 intensity levels
Trigger Capability: Pattern and mixed-signal triggering across all analog and digital channels

Key Features

MegaZoom III technology enables responsive operation with deep memory acquisitions and fast waveform refresh rates, critical for capturing transient events and intermittent faults. The 350 ps rise time resolves high-speed edge transitions. Pattern triggering and mixed-signal trigger functionality allow precise capture of specific system conditions across both analog and digital domains simultaneously.

Interfaces & Control

Standard connectivity includes LAN, USB, GPIB, and XGA video output. LXI Class C compliance ensures integration into networked test environments. Java-enabled LAN interface supports remote instrument control by up to three concurrent users, enabling distributed debug workflows.

Typical Applications

Serial protocol analysis (CAN, FlexRay, I2C, SPI), USB 2.0 and Ethernet compliance validation, jitter characterization, FPGA dynamic probing for Xilinx and Altera devices, and automotive embedded system debugging. Optional analysis software provides protocol decode, timing measurements, and compliance testing capabilities.

MSO8104A Characteristics / Specifications

PARAMETER	VALUE
Model	MSO8104A
Series Family	Infiniium 8000 Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	1 GHz
Analog Channels	4
Digital Channels	16
Maximum Sample Rate Class	up to 4 GSa/s interleaved class
Memory Architecture	MegaZoom deep memory Infiniium class
Display	Infiniium color LCD class
Vertical Resolution	8 bits
Input Impedance Class	1 MOhm and 50 ohm paths class
Input Coupling	DC AC ground
Digital Channel Count	16
Mso Triggering	Mixed analog/digital trigger class
Remote Interfaces	GPIB LAN USB class
Chassis Form	benchtop Infiniium
Brand Lineage	Keysight / Agilent
Time Base Class	Infiniium 8000 timebase architecture
Acquisition Modes	Real-time Infiniium acquisition class
Probe Interface	AutoProbe class Infiniium probe support
Analysis Applications	Infiniium application package path
Weight Class	Infiniium 8000 benchtop mass class
Power Class	AC mains Infiniium supply class
Documentation Scope	OEM Infiniium 8000 Series published tables
Bandwidth	1 GHz

MSO8104A Specifications

PARAMETER	VALUE
Applications	High-speed digital validation, mixed-signal timing analysis, and Infiniium 8000 lab measurements to 1 GHz.
Sixteen digital MSO channels	Infiniium 8000 deep memory platform
Technical Specifications	Model: MSO8104A

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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Notes

From Keysight/Agilent Infiniium 8000 Series oscilloscope documentation model row for MS08104A. Installed memory options affect maximum record length.

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.