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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3104A

Keysight / Agilent MSOX3104A InfiniiVision Oscilloscope 1 GHz 4+16 The Keysight/Agilent MSOX3104A is an InfiniiVision 3000 X-Series oscilloscope with 1 GHz analog bandwidth, 4 analog channels, and 16 digital channels. OEM 3000 X-Series fact sheets rate MegaZoom IV class update performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch WVGA display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. MegaZoom IV ultra-responsive update class The Keysight/Agilent MSOX3104A is an InfiniiVision 3000 X-Series oscilloscope with 1 GHz analog bandwidth, 4 analog channels, and 16 digital channels. OEM 3000 X-Series fact sheets rate MegaZoom IV class update performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch WVGA display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. MegaZoom IV ultra-responsive update class Series Family: InfiniiVision 3000 X-Series



MODEL

**Agilent / Keysight
MSOX3104A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3104A

LISTING

<https://aumictechlabs.com/products/msox3104a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOX3104A is a 1 GHz mixed-signal oscilloscope integrating oscilloscope, digital logic analyzer, arbitrary/function generator, voltmeter, and counter into a single instrument. Built on the InfiniiVision 3000 X-Series platform, it delivers 5 GSa/s sampling across 4 analog and 16

digital channels with up to 4 Mpts of memory and waveform update rates to 1,000,000 wfms/s. The 8.5-inch WVGA display and MegaZoom IV smart memory technology enable reliable capture and analysis of transient and low-probability events in complex mixed-signal designs.

Technical Specifications
Bandwidth: 1 GHz
Analog channels: 4
Digital channels: 16
Sampling rate: 5 GSa/s
Memory depth: 2 Mpts standard, upgradable to 4 Mpts
Waveform update rate: 1,000,000 wfms/s
Display: 8.5-inch WVGA (800 × 480)
Vertical resolution: 8 bit
Rise time (calculated): 450 ps

Key Features
5-in-1 integrated instrument: oscilloscope, MSO, 20 MHz arbitrary/function generator (optional), 3-digit voltmeter, 5-digit counter
MegaZoom IV smart memory for deep waveform capture with high update rates
Full upgradability: memory, MSO functionality, function generator, serial protocol analysis, segmented memory, and mask testing
Serial protocol triggering and analysis: FlexRay, CAN, I²C, SPI, LIN, RS232/RS485/UART, I²S, MIL-STD-1553
Waveform math: add, subtract, multiply, FFT; advanced options include filtering, logarithmic functions, and measurement trending
Secure erase for setup and reference waveform data
USB connectivity: front and rear host ports; USB device port

Typical Applications
Mixed-signal design verification, embedded systems debugging, serial protocol analysis, power electronics characterization, and signal integrity measurement in multi-domain test scenarios.

Compatibility & Integration
Part of Keysight's InfiniiVision 3000 X-Series. Supports optional serial decode and protocol analysis modules. USB host and device connectivity enable external storage, printing, and remote operation.

MSOX3104A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3104A
Series Family	InfiniiVision 3000 X-Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	1 GHz
Analog Channels	4
Digital Channels	16
Maximum Sample Rate	5 GSa/s class
Maximum Memory Depth	4 Mpts
Waveform Update Rate	1000000 waveforms per second class
Display Size	8.5 inch WVGA
Vertical Resolution	8 bit
Memory Architecture	MegaZoom IV deep memory
Input Coupling	DC AC ground
Input Impedance Class	1 MOhm and 50 ohm paths class
Hardware Counter	Integrated frequency counter class
Segmented Memory	Available
WaveGen Path	Built-in function/arbitrary generator option path
Digital Voltmeter Path	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Chassis Form	Benchtop InfiniiVision
Remote Interfaces	USB standard with LAN GPIB options
Brand Lineage	Keysight / Agilent
Mso Capability	Yes
Bandwidth	1 GHz

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.

performance with 5 GSa/s class maximum sample rate and 4 Mpts memory depth on an 8.5 inch WVGA display.

Applications

Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements.

Key Features

MegaZoom IV ultra-responsive update class

Mixed signal digital channel capture

Optional WaveGen and DVM upgrade path

Serial protocol option packages

Bandwidth and MSO upgradability class

Technical Specifications

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PARAMETER	VALUE
Remote Interfaces	USB standard with LAN GPIB options
Brand Lineage	Keysight / Agilent
Mso Capability	Yes

Notes
From Keysight/Agilent InfiniiVision 3000 X-Series fact sheet model row for MSOX3104A. Exact memory split by channel mode follows the published family table.

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.