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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3104G

Keysight / Agilent MSOX3104G InfiniiVision Oscilloscope 1 GHz 4+16 The Keysight/Agilent MSOX3104G is an InfiniiVision 3000G X-Series oscilloscope with 1 GHz analog bandwidth, 4 analog channels, and 16 digital channels. OEM 3000G 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 capacitive class display. Embedded mixed-signal debug, education labs, serial decode with options, and general-purpose analog measurements. The Keysight/Agilent MSOX3104G is an InfiniiVision 3000G X-Series oscilloscope with 1 GHz analog bandwidth, 4 analog channels, and 16 digital channels. OEM 3000G 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 capacitive class 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 3000G X-Series



MODEL

**Agilent / Keysight
MSOX3104G**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3104G

LISTING

<https://aumictechlabs.com/products/msox3104g-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOX3104G is a mixed-signal oscilloscope that integrates seven instruments into a single platform for electronic design, test, and debugging. It combines a 1 GHz oscilloscope with 4 analog and 16 digital channels, a protocol analyzer, frequency response analyzer, 20 MHz

arbitrary waveform generator, digital voltmeter, and counter/totalizer. The 1,000,000 waveform/sec update rate delivers real-time signal capture and analysis with 5 GSa/s maximum sample rate and 4 Mpts memory depth. Technical Specifications Bandwidth: 1 GHz (1000 MHz) Analog channels: 4 Digital channels: 16 Maximum sample rate: 5 GSa/s (all channels); 2.5 GSa/s (half channels) Memory depth: 4 Mpts (half channels); 2 Mpts (all channels) Vertical resolution: 8 bits Rise time: ≤ 450 ps Input impedance: 1 M Ω Input capacitance: 8 pF Display: 8.5-inch capacitive touch gesture-enabled, 800 $\times$ 480 pixels Waveform update rate: 1,000,000 waveforms/sec Power supply: 120V/220V universal Dimensions: 381 $\times$ 204 $\times$ 142 mm (15 $\times$ 5.6 $\times$ 8 inches) Weight: 4.2 kg (9.3 lbs) Key Features Zone Touch Trigger for intuitive area-based triggering on the display MegaZoom IV Smart Memory Technology for enhanced waveform capture Mask Limit and Measurement Limit Testing with hardware-based compliance verification Waveform and measurement histograms for statistical signal analysis Segmented memory for efficient capture of long or intermittent events HDTV video signal analysis capability Serial protocol triggering and decoding: I2C, SPI, UART/RS232/RS485, I2S, USB PD Built-in 20 MHz arbitrary waveform generator Integrated 3-digit DVM and 8-digit counter/totalizer Interfaces & Integration Connectivity: USB host, USB device, LAN, VGA External synchronization included Included passive probes: N2843A (500 MHz, 10:1 attenuation) for each analog channel MSO cable: N2756A 16-channel digital channel cable PathWave BenchVue Oscilloscope Software (BV004B) included Typical Applications Mixed-signal circuit characterization, embedded system debugging, serial protocol analysis, waveform compliance testing, and HDTV signal validation.

MSOX3104G Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3104G
Series Family	InfiniiVision 3000G 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 capacitive class
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 capacitive class 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 3000G X-Series fact sheet model row for MSOX3104G. 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.