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Data Sheet

August 12, 2026

KEYSIGHT / AGILENT

Keysight (Agilent) MSOX3024A Oscilloscope, 200 MHz

Keysight / Agilent MSOX3024A InfiniiVision 3000A X-Series Mixed Signal Oscilloscope The MSOX3024A is a 200 MHz 4-analog + 16-digital channel InfiniiVision 3000A X-Series MSO. MegaZoom IV memory, up to 1,000,000 wfms/s update rate, and upgradable options (bandwidth, WaveGen, apps). The MSOX3024A is a 200 MHz 4-analog + 16-digital channel InfiniiVision 3000A X-Series MSO. MegaZoom IV memory, up to 1,000,000 wfms/s update rate, and upgradable options (bandwidth, WaveGen, apps).



MODEL

**Keysight / Agilent
MSOX3024A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3024A

LISTING

<https://aumictechlabs.com/products/msox3024a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3024A is a 200 MHz mixed-signal oscilloscope that combines oscilloscope, logic analyzer, function generator, digital voltmeter, and frequency counter functionality into a single instrument. It delivers 4 analog and 16 digital channels with time-correlated triggering across all 20 channels, enabling synchronized capture and analysis of complex digital and analog signals. With a maximum sample rate of 4 GSa/s, memory depth up to 4 Mpts, and waveform update rate of 1,000,000 wfms/s, the MSOX3024A captures transient anomalies and renders high-speed signals responsively. The 8.5-inch WVGA display provides clear signal

visualization. Technical Specifications Bandwidth: 200 MHz analog (upgradable) Analog Channels: 4 Digital Channels: 16 Sample Rate: 4 GSa/s maximum Memory Depth: 4 Mpts maximum (2 Mpts standard, upgradable) Waveform Update Rate: 1,000,000 wfms/s Rise Time: 1.75 ns calculated Display: 8.5-inch WVGA LCD colour Segmented Memory Acquisition: Up to 1000 segments, <1 μ s re-arm time Key Features MegaZoom IV Smart Memory Technology balances deep memory retention with fast update rates 35 automated measurements (50 with optional current probe) 10 parametric triggers for signal anomaly detection Integrated 3-digit digital voltmeter and 5-digit frequency counter FFT and advanced waveform math functions (optional): Ax+B, square, absolute value, logarithmic, exponential, filtering, and measurement trending Serial protocol triggers (optional): CAN, LIN, I²C, SPI, RS232, FlexRay, I²S, MIL-STD 1553 Intuitive touch user interface Mask testing (optional) Secure erase capability (NISPOM chapter 8 compliant) Typical Applications Digital and embedded system debugging, power supply analysis, protocol decoding, signal integrity verification, and multi-domain signal correlation. Compatibility & Integration Part of the InfiniiVision 3000 X-Series. Supports bandwidth upgrades and optional high-sensitivity AC/DC current probes for expanded measurement capability.

Features & description

From manufacturer datasheet

Features

• Bandwidth: 200 MHz • Analog channels: 4 • Digital channels: 16 (D0–D15) • Calculated rise time (10–90%): ≤ 1.75 ns • Sample rate: up to 4 GSa/s half-channel interleaved; 2 GSa/s all channels • Memory: up to 4 Mpts half-channel; 2 Mpts all channels • Waveform update rate: up to 1,000,000 wfms/s • Display: 8.5-inch WVGA (800 × 480) • Time base (200 MHz class): 2 ns/div to 50 s/div • Optional: WaveGen function generator; serial protocol apps; LAN/GPIB • Connectivity: USB host (front/back), USB device; optional LAN/GPIB • Upgradable bandwidth within 3000A X-Series family

Applications

• Mixed-signal embedded debug • Serial decode / protocol analysis (options) • General-purpose 200 MHz lab oscilloscope work

MSOX3024A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3024A
Manufacturer	Keysight / Agilent
Instrument Type	Mixed Signal Oscilloscope
Alias	MSOX3024A; Agilent MSOX3024A; Keysight MSOX3024A
Bandwidth	200 MHz
Analog channels	4
Digital channels	16 (D0–D15)
Rise time	≤1.75 ns
Sample rate max	4 GSa/s
Memory max	4 Mpts
Update rate	1,000,000 wfms/s
Display	8.5 in WVGA Notes Specs from Keysight InfiniiVision 3000A X-Series oscilloscope data sheets (MSOX3024A row). Confirm installed options on the unit.
Calculated rise time (10–90%)	≤1.75 ns
Sample rate	up to 4 GSa/s half-channel interleaved; 2 GSa/s all channels
Memory	up to 4 Mpts half-channel; 2 Mpts all channels
Waveform update rate	up to 1,000,000 wfms/s
Time base (200 MHz class)	2 ns/div to 50 s/div
Optional	WaveGen function generator; serial protocol apps; LAN/GPIB
Connectivity	USB host (front/back), USB device; optional LAN/GPIB

MSOX3024A Specifications

PARAMETER	VALUE
Key Features	- Bandwidth: 200 MHz
Technical Specifications	Model: MSOX3024A
Notes	Specs from Keysight InfiniiVision 3000A X-Series oscilloscope data sheets (MSOX3024A row). Confirm installed options on the unit.

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

Specifications

PARAMETER	VALUE
Model	MSOX3024A
Manufacturer	Keysight / Agilent
Instrument Type	Mixed Signal Oscilloscope
Alias	MSOX3024A; Agilent MSOX3024A; Keysight MSOX3024A

Specifications

PARAMETER	VALUE
Bandwidth	200 MHz
Analog channels	4
Digital channels	16
Rise time	≤1.75 ns
Sample rate max	4 GSa/s
Memory max	4 Mpts
Update rate	1,000,000 wfms/s
Display	8.5 in WVGA

Notes

Specs from Keysight InfiniiVision 3000A X-Series oscilloscope data sheets (MSOX3024A row). Confirm installed options on the unit.

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.