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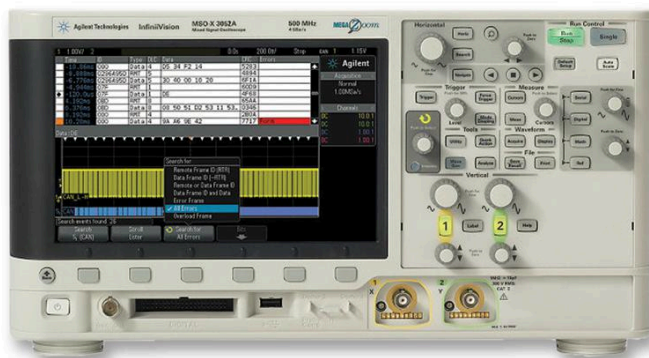
Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3052A

Keysight / Agilent MSOX3052A InfiniiVision Oscilloscope 500 MHz 2+16 The Keysight/Agilent MSOX3052A is an InfiniiVision 3000 X-Series oscilloscope with 500 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 3000 X-Series fact sheets rate MegaZoom IV class update performance with 4 GSa/s 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 MSOX3052A is an InfiniiVision 3000 X-Series oscilloscope with 500 MHz analog bandwidth, 2 analog channels, and 16 digital channels. OEM 3000 X-Series fact sheets rate MegaZoom IV class update performance with 4 GSa/s 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
MSOX3052A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3052A

LISTING

<https://aumictechlabs.com/products/msox3052a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3052A is a 500 MHz mixed-signal oscilloscope that integrates five instruments into a single platform: oscilloscope, logic analyzer, protocol analyzer, function/arbitrary waveform generator, and digital voltmeter. Built for engineers and system

integrators, it delivers a waveform update rate exceeding 1,000,000 waveforms per second, enabling capture of subtle signal detail and rare events.

Technical Specifications

Oscilloscope
Bandwidth: 500 MHz Analog channels: 2 at 4 GSa/s interleaved or 2 GSa/s per channel Digital channels: 16 (D0–D15) at 1 GSa/s Memory depth: 2 Mpts standard; 4 Mpts optional with segmented memory available Vertical resolution: 8 bits Rise time: 200 mV/div to 5 V/div Horizontal System Time base: 1 ns/div to 50 s/div Time base accuracy: 25 ppm $\pm$ 5 ppm per year aging Delta time accuracy: $\pm$ (time base accuracy $\times$ reading) $\pm$ (0.0016 $\times$ screen width) $\pm$ 100 ps Channel-to-channel deskew: $\pm$ 100 ns Digital Channels Threshold range: $\pm$ 8.0 V in 10 mV steps (per set of 8 channels) Threshold accuracy: $\pm$ (100 mV + 3% of setting) Maximum input voltage: $\pm$ 40 V peak CAT I; 800 Vpk transient overvoltage Maximum dynamic range: $\pm$ 10 V about threshold Minimum voltage swing: 500 mVpp Minimum detectable pulse width: 5 ns

Waveform Generator (Optional)
Frequency: 20 MHz function/arbitrary waveform generator Waveforms: arbitrary, sine, square, pulse, triangle, ramp, noise, DC Modulation: available Display 8.5-inch WVGA color display with 64-level intensity grading

Key Features
Hardware-based mask testing (optional) Protocol analysis: CAN, I²C, SPI, LIN, RS232/RS485/UART, I²S, FlexRay, MIL-STD 1553 FFT waveform math AC/DC input coupling Selectable 20 MHz bandwidth limit

Interfaces
USB host and device ports (standard) LAN, VGA, and GPIB interfaces (optional)

MSOX3052A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3052A
Series Family	InfiniiVision 3000 X-Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	500 MHz
Analog Channels	2
Digital Channels	16
Maximum Sample Rate	4 GSa/s
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	500 MHz

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 4 GSa/s 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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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

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 MSOX3052A. 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

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

NIST-traceable calibration · SAM registered ·
30-day returns
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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.