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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3012A

Agilent Keysight MSOX3012A InfiniiVision Oscilloscope The Agilent/Keysight MSOX3012A is a 100 MHz InfiniiVision 3000 X-Series oscilloscope with 2 analog channels and 16 digital channels. OEM 3000A X-Series fact sheets list up to 4 GSa/s sample rate, up to 4 Mpts MegaZoom memory, and 1,000,000 wfms/s update rate with an 8.5-inch WVGA display. Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform. 2 analog channels plus 16 digital MSO channels The Agilent/Keysight MSOX3012A is a 100 MHz InfiniiVision 3000 X-Series oscilloscope with 2 analog channels and 16 digital channels. OEM 3000A X-Series fact sheets list up to 4 GSa/s sample rate, up to 4 Mpts MegaZoom memory, and 1,000,000 wfms/s update rate with an 8.5-inch WVGA display. Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform. 2 analog channels plus 16 digital MSO channels Waveform Update Rate: 1000000 waveforms per second



MODEL

**Agilent / Keysight
MSOX3012A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3012A

LISTING

<https://aumictechlabs.com/products/msox3012a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3012A is a 100 MHz mixed-signal oscilloscope built for engineers and system integrators analyzing complex analog and digital signals simultaneously. It combines 2 analog channels with 16 digital channels, delivering up to 4 GSa/s sample rate and 1,000,000 waveforms

per second update rate. The 8.5-inch WVGA display renders clear, detailed waveforms across deep memory - up to 4 Mpts optional - enabling both transient capture and long-duration signal analysis without sacrificing temporal resolution.

Technical Specifications
Bandwidth: 100 MHz
Analog Channels: 2 Digital Channels: 16 Maximum Sample Rate: 4 GSa/s Memory Depth: 2 Mpts (standard); up to 4 Mpts (optional) Waveform Update Rate: 1,000,000 wfms/s Display: 8.5-inch WVGA (800 × 480) ADC Resolution: 8 bits Calculated Rise Time: 3.5 ns Physical Weight: 8.5 lbs Physical Height: 8 inches

Key Features
MegaZoom IV Smart Memory: Enables fast, responsive deep memory acquisition while maintaining high sample rate across long signal captures.
Segmented Memory: Captures up to 1000 segments with sub-1 μ s re-arm time, optimized for low-duty cycle pulses and data bursts. Supports segment playback, overlay, and parametric analysis.
Integrated 3-digit Digital Voltmeter: Decoupled triggering for independent voltage characterization. Integrated 5-digit Frequency Counter: Built-in frequency measurement.
Hardware Mask Testing: Executes up to 270,000 tests per second. HDTV Video Triggering and Measurement: Dedicated video signal analysis and trigger modes. Advanced Math Functions: FFT, derivatives, integration, arithmetic operations. Optional Serial Protocol Analyzer: Decodes serial communication protocols. Optional WaveGen Function Generator: 20 MHz arbitrary waveform generation with modulation.

Interfaces and Connectivity
USB Host (front and rear ports) USB Device Port Optional GPIB Module Optional VGA/LAN Module

Typical Applications
Embedded systems development, mixed-signal circuit debug, protocol analysis, video signal validation, and signal integrity characterization across digital and analog domains.

MSOX3012A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3012A
Analog Bandwidth	100 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
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
Segmented Memory	Available
WaveGen Option	Built in 20 MHz function arbitrary generator option
Digital Voltmeter Option	Integrated DVM option path
Serial Trigger Analysis	Optional protocol packages
Form Factor	Benchtop InfiniiVision 3000 X
Series Family	InfiniiVision 3000 X Series
Remote Interfaces	USB standard with LAN GPIB options
MSO Capability	yes
Brand Lineage	Agilent / Keysight
Bandwidth	100 MHz

MSOX3012A Specifications

PARAMETER	VALUE
Agilent Keysight MSOX3012A InfiniiVision Oscilloscope	Overview
Applications	Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform.
Key Features	100 MHz analog bandwidth
Technical Specifications	Model: MSOX3012A
Notes	From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for MSOX3012A.

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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PARAMETER	VALUE
Model	MSOX3012A
Analog Bandwidth	100 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
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
Segmented Memory	Available
WaveGen Option	Built in 20 MHz function arbitrary generator option
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Form Factor	Benchtop InfiniiVision 3000 X
Series Family	InfiniiVision 3000 X Series
Remote Interfaces	USB standard with LAN GPIB options
MSO Capability	yes
Brand Lineage	Agilent / Keysight
Notes	
From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for MSOX3012A.	

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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NIST-traceable calibration · SAM registered ·
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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.