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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3034A

Agilent Keysight MSOX3034A InfiniiVision Oscilloscope The Agilent/Keysight MSOX3034A is a 350 MHz InfiniiVision 3000 X-Series oscilloscope with 4 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. 4 analog channels plus 16 digital MSO channels The Agilent/Keysight MSOX3034A is a 350 MHz InfiniiVision 3000 X-Series oscilloscope with 4 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. 4 analog channels plus 16 digital MSO channels Waveform Update Rate: 1000000 waveforms per second



MODEL

**Agilent / Keysight
MSOX3034A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3034A

LISTING

<https://aumictechlabs.com/products/msox3034a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOX3034A is a 350 MHz mixed-signal oscilloscope that combines analog and digital channel measurements in a single instrument. With 4 analog channels and 16 digital channels, it captures complex multi-domain signals simultaneously. The 8.5-inch WVGA display

provides clear visibility of waveforms, while a 1,000,000 waveform/s update rate enables real-time signal observation.

Technical Specifications

Measurement Performance Bandwidth: 350 MHz
Sample rate: Up to 4 GSa/s Rise time: 1 ns Memory depth: 2 Mpts standard; up to 4 Mpts optional
Vertical resolution: 8 bit Vertical sensitivity: 2 mV/div to 5 V/div

Channel Configuration 4 analog channels with input impedance selectable at $1\text{ M}\Omega \pm 1\%$ or $50\ \Omega \pm 1.5\%$ Input capacitance: 14 pF 16 digital channels for MSO measurements

Timebase and Display Minimum time base: 2 ns/div
Maximum time base: 50 s/div 8.5-inch WVGA color LCD

Key Features Triggering and Analysis Edge, pulse width, pattern, rise/fall time, Nth edge burst, runt, setup & hold, video, USB, and serial protocol triggering. Built-in 3-digit voltmeter and 5-digit frequency counter. Waveform math, FFT analysis, and mask testing available. Integrated Capabilities Optional 20 MHz function/arbitrary waveform generator with modulation. Segmented memory standard. Optional serial trigger and analysis. Post-purchase upgrades available for bandwidth, memory, generator, and analysis functions. Connectivity USB Host and Device ports. Optional LAN, VGA, and GPIB interfaces.

Typical Applications Multi-protocol debugging, embedded systems validation, digital and analog signal correlation, protocol analysis, and general-purpose bench testing.

Compatibility & Integration Supplied with one 500 MHz passive probe (N2890A, 10:1) per analog channel and 16-channel MSO cable (N2756-60001). Two-year calibration interval. Dimensions: $380.6 \times 141.5 \times 204.4$ mm; weight: 3.9 kg.

MSOX3034A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3034A
Analog Bandwidth	350 MHz
Analog Channels	4
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	350 MHz

MSOX3034A Specifications

PARAMETER	VALUE
Agilent Keysight MSOX3034A InfiniiVision Oscilloscope	Overview
Applications	Embedded design debug, mixed-signal analysis, education, and general-purpose analog measurements on the 3000 X-Series platform.
Key Features	350 MHz analog bandwidth
Technical Specifications	Model: MSOX3034A
Notes	From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for MSOX3034A.

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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MSO Capability	yes
Brand Lineage	Agilent / Keysight
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From Keysight/Agilent InfiniiVision 3000A X-Series fact sheet model row for MSOX3034A.	

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.