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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX4032A

Keysight / Agilent MSOX4032A Mixed Signal Oscilloscope 350 MHz 2+16 The Keysight/Agilent InfiniiVision MSOX4032A is a 4000 X-Series oscilloscope with 350 MHz analog bandwidth and 2 analog channels plus 16 digital channels. OEM data sheet 5991-1103 lists 5 GSa/s half-channel / 2.5 GSa/s all-channel sample rate, 4 Mpts half / 2 Mpts all memory, and a 12.1-inch capacitive touch display with InfiniiScan Zone trigger. Embedded mixed-signal debug, serial protocol analysis, and touch-zone triggered design validation on the 4000 X-Series platform. The Keysight/Agilent InfiniiVision MSOX4032A is a 4000 X-Series oscilloscope with 350 MHz analog bandwidth and 2 analog channels plus 16 digital channels. OEM data sheet 5991-1103 lists 5 GSa/s half-channel / 2.5 GSa/s all-channel sample rate, 4 Mpts half / 2 Mpts all memory, and a 12.1-inch capacitive touch display with InfiniiScan Zone trigger. Embedded mixed-signal debug, serial protocol analysis, and touch-zone triggered design validation on the 4000 X-Series platform. Greater than one million waveforms per second update rate



MODEL

**Agilent / Keysight
MSOX4032A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX4032A

LISTING

<https://aumictechlabs.com/products/msox4032a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX4032A is a mixed-signal oscilloscope that combines analog and digital signal capture in a single platform, delivering 350 MHz bandwidth across 2 analog and 16 digital channels. With a 5 GSa/s sampling rate, 4 Mpts memory depth, and 1,000,000 waveforms/second

update rate, this instrument handles complex debugging and protocol analysis tasks. The 12.1-inch capacitive touch display provides intuitive control, while Zone Touch Triggering allows you to isolate signal events by drawing trigger zones directly on screen. The MSOX4032A functions as oscilloscope, logic analyzer, and optional arbitrary waveform generator, digital voltmeter, and serial protocol analyzer - all upgradeable post-purchase. MegaZoom IV Smart Memory and segmented memory capture enable efficient data storage and responsive analysis even under heavy processing loads. Calculated rise time is 1 ns, supporting fast edge characterization.

Technical Specifications
Bandwidth: 350 MHz
Analog Channels: 2
Digital Channels: 16
Sampling Rate: 5 GSa/s
Memory Depth: 4 Mpts
Waveform Update Rate: 1,000,000 waveforms/second
Rise Time (calculated): 1 ns
Display: 12.1-inch capacitive touch, SVGA color LCD

Key Features
Zone Touch Triggering for event isolation and capture control
MegaZoom IV Smart Memory for responsive performance with multiple active functions
Segmented memory for selective data storage
Optional 20 MHz arbitrary waveform generator
Optional 3-digit digital voltmeter
Optional serial trigger and protocol analysis
Optional mask testing capability
Bandwidth upgradeable to 1.5 GHz
Passive probes: N2894A 700 MHz (10:1) per analog channel
MSO cable: N2756-60001 or N6450-60001 for 16 digital channels

Typical Applications
Mixed-signal debugging and verification
Protocol analysis and serial decoding
Digital logic state capture and timing analysis
Mask and template-based signal compliance testing

Compatibility & Integration
Part of the Keysight InfiniiVision 4000 X-Series platform. Supports modular upgrades including advanced serial protocols, arbitrary waveform generation, and measurement analysis functions.

MSOX4032A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Mixed Signal Oscilloscope
Series Family	InfiniiVision 4000 X-Series
Model	MSOX4032A
Analog Bandwidth	350 MHz (minus 3 dB)
All Channel Real Time Bandwidth	350 MHz
Calculated Rise Time 10 To	1 ns or less
Analog Channels	2
Digital Channels	16
Maximum Sample Rate Half Channel	5 GSa/s
Maximum Sample Rate All Channels	2.5 GSa/s
Maximum Memory Depth Half Channel	4 Mpts
Maximum Memory Depth All Channels	2 Mpts
Digital Channel Sample Rate	1.25 GSa/s
Waveform Update Rate	greater than 1 million waveforms per second
Display	12.1 inch high definition capacitive touch
Vertical Resolution	8 bits (12 bits with averaging)
Input Impedance	1 MOhm +/-1 percent (16 pF); 50 ohm +/-1.5 percent
Hardware Bandwidth Limit	approximately 20 MHz selectable
Dc Vertical Gain Accuracy	+/-2.0 percent full scale after 30 min warm-up
Time Base Range	1 ns/div to 50 s/div
Time Base Accuracy	+/-10 ppm warranted
Peak Detect Glitch Width	200 ps at all time base settings
Digital Min Detectable Pulse Width	2 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns

PARAMETER	VALUE
Connectivity Standard	USB 2.0 host x3 device x1, LAN, VGA out
Interfaces Optional	GPIB option
Dimensions WxhxD	454 mm x 275 mm x 156 mm
Weight Net	6.3 kg (13.9 lb)
Chassis Form	benchtop oscilloscope
Bandwidth	350 MHz (minus 3 dB)
Rise Time	10 To 90: 1 ns or less

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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Digital Channel To Channel Skew Maximum	3 ns
Connectivity Standard	USB 2.0 host x3 device x1, LAN, VGA out

PARAMETER	VALUE
Interfaces Optional	GPIO option
Dimensions WxHxD	454 mm x 275 mm x 156 mm
Weight Net	6.3 kg (13.9 lb)
Chassis Form	benchtop oscilloscope

Notes
Numeric rows from Keysight InfiniiVision 4000 X-Series oscilloscope data sheet 5991-1103 model columns for MSOX4032A.

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 ·
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.