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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3024T

Agilent Keysight MSOX3024T Mixed Signal Oscilloscope 200 MHz 4+16 The Keysight InfiniiVision MSOX3024T is a 3000T X-Series oscilloscope with 200 MHz bandwidth and 4 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel / 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 wfms/s update rate, and an 8.5-inch capacitive touch display. General-purpose mixed-signal debug, serial protocol decode with options, and touch-zone triggered embedded design validation. The Keysight InfiniiVision MSOX3024T is a 3000T X-Series oscilloscope with 200 MHz bandwidth and 4 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel / 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 wfms/s update rate, and an 8.5-inch capacitive touch display. General-purpose mixed-signal debug, serial protocol decode with options, and touch-zone triggered embedded design validation. Greater than 1,000,000 waveforms per second update rate



MODEL

**Agilent / Keysight
MSOX3024T**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3024T

LISTING

<https://aumictechlabs.com/products/msox3024t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3024T is a 200 MHz mixed-signal oscilloscope delivering 4 analog and 16 digital channels for comprehensive signal analysis and protocol debugging. Sampling at 5 GS/s with up to 4 Mpts of memory depth, this instrument achieves a 1.75 ns rise time and delivers

1,000,000 waveforms/second update rate. The 8.5-inch capacitive touch screen LCD provides intuitive access to Exclusive Zone Touch Triggering, advanced edge and pattern detection, and serial protocol triggering including I2C events. A correlated 6-in-1 instrument integration includes a 3-digit voltmeter and 8-digit counter/totalizer, eliminating the need for separate test equipment on the benchtop. Technical Specifications Bandwidth: 200 MHz Analog Channels: 4 Digital Channels: 16 Sampling Rate: 5 GS/s Memory Depth: Up to 4 Mpts Calculated Rise Time: 1.75 ns Waveform Update Rate: 1,000,000 wfms/s Display: 8.5-inch capacitive touch screen LCD ColorKey Features Exclusive Zone Touch Triggering with advanced trigger modes including edge, pattern, and serial protocol events MegaZoom IV memory with upgrade path to 4 Mpts/2 Mpts segmented memory Optional 20 MHz Function/Arbitrary Waveform Generator (DSOX3WAVEGEN) support Correlated 6-in-1 instrument integration: oscilloscope, logic analyzer, protocol analyzer, voltmeter, counter/totalizer, and measurement tools Touch GUI control with front panel buttons, knobs, and Keysight Insight pull-down menu BenchVue software license (BV0004B) for instrument control and automation Standard Accessories One N2843A 500 MHz 10:1 passive probe per analog channel One N2756A 16-channel MSO digital logic probe cable Certificate of Calibration Documentation CD with User Guide, Service Guide, and Programmer's Manual Localized power cord Compatibility & Integration The MSOX3024T supports instrument drivers for multiple development environments. Compatible probes include the N2843A 500 MHz passive probe and N2756A 16-channel MSO cable. Bandwidth upgrades and additional digital channel options are available.

MSOX3024T Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3024T
Bandwidth	200 MHz
Calculated Rise Time 10 to	less than or equal to 1.75 ns
Analog Channels	4
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
Display	8.5 inch capacitive touch gesture-enabled
Waveform Update Rate	greater than 1,000,000 waveforms per second
Segmented Memory Maximum Segments	1000
Segmented Memory Rearm Time	1 us minimum
Digital Min Detectable Pulse Width	5 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns
Connectivity Standard	USB 2.0
Series Family	InfiniiVision 3000T X-Series
Trigger	InfiniiScan Zone plus standard trigger modes
Advanced Math	standard one function and FFT simultaneously
Form Factor	benchtop oscilloscope
Rise Time	10 to 90: less than or equal to 1.75 ns

MSOX3024T Specifications

PARAMETER	VALUE
InfiniiScan Zone touch trigger	Greater than 1,000,000 waveforms per second update rate
Technical Specifications	Model: MSOX3024T
Notes	From Keysight InfiniiVision 3000T X-Series oscilloscope data sheet / quick fact sheet model columns for MSOX3024T.

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	MSOX3024T
Bandwidth	200 MHz
Calculated Rise Time 10 to 90	less than or equal to 1.75 ns
Analog Channels	4
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
Display	8.5 inch capacitive touch gesture-enabled
Waveform Update Rate	greater than 1,000,000 waveforms per second
Segmented Memory Maximum Segments	1000
Segmented Memory Rearm Time	1 us minimum
Digital Min Detectable Pulse Width	5 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns
Connectivity Standard	USB 2.0
Optional Interfaces: LAN video GPIB class options	
Specifications	
PARAMETER	VALUE
Series Family	InfiniiVision 3000T X-Series
Trigger	InfiniiScan Zone plus standard trigger modes
Advanced Math	standard one function and FFT simultaneously
Form Factor	benchtop oscilloscope
Notes	
From Keysight InfiniiVision 3000T X-Series oscilloscope data sheet / quick fact sheet model columns for	

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

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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.