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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3012T

Keysight / Agilent MSOX3012T Mixed Signal Oscilloscope 100 MHz 2+16 The Keysight/Agilent InfiniiVision MSOX3012T is a 3000T X-Series oscilloscope with 100 MHz bandwidth and 2 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel and 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 waveforms/s update rate, and an 8.5-inch capacitive touch display with InfiniiScan Zone touch trigger. Mixed-signal embedded debug, touch-zone triggered anomaly capture, optional serial protocol decode, and general-purpose analog measurements on the 3000T X-Series platform. The Keysight/Agilent InfiniiVision MSOX3012T is a 3000T X-Series oscilloscope with 100 MHz bandwidth and 2 analog channels plus 16 digital channels. OEM 3000T data sheets list 5 GSa/s half-channel and 2.5 GSa/s all-channel sample rate, 4 Mpts standard memory, greater than 1,000,000 waveforms/s update rate, and an 8.5-inch capacitive touch display with InfiniiScan Zone touch trigger. Mixed-signal embedded debug, touch-zone triggered anomaly capture, optional serial protocol decode, and general-purpose analog measurements on the 3000T X-Series platform.



MODEL

**Agilent / Keysight
MSOX3012T**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3012T

LISTING

<https://aumictechlabs.com/products/msox3012t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOX3012T is a 100 MHz mixed-signal oscilloscope combining 2 analog channels and 16 digital channels for comprehensive signal analysis. Built on the InfiniiVision 3000T X-Series platform, it delivers a 1,000,000 waveforms/sec update rate powered by MegaZoom IV smart memory ASIC architecture. The instrument functions as a 6-in-1 solution: oscilloscope, logic analyzer, serial protocol analyzer (optional), digital voltmeter, arbitrary waveform generator (optional), and 8-digit counter/totalizer. An 8.5-inch capacitive touch screen with gesture support and Zone Touch Triggering - an industry-exclusive feature for isolating signals by drawing areas - streamlines complex measurements and reduces analysis time.

Technical Specifications

Bandwidth: 100 MHz (upgradeable) Analog Channels: 2 Digital Channels: 16 (included with logic probe) Maximum Sampling Rate: 5 GSa/s per channel (2 analog active); 2.5 GSa/s (all channels active) Memory Depth: 4 Mpts standard (2 Mpts with all channels active) Rise Time: 3.5 ns Vertical Resolution: 8 bits (12 bits in High-Resolution Acquisition Mode) Vertical Range: 1 mV/div to full bandwidth Waveform Update Rate: 1,000,000 waveforms/sec

Key Features

Triggering & Acquisition Edge, Pulse Width, Pattern, Runt, Setup & Hold, Video, USB, Nth Edge Burst, OR, Rise/Fall Time triggering Zone Touch Triggering for intuitive signal isolation Normal, Peak Detect, Averaging, and High-Resolution acquisition modes Segmented Memory standard Integrated Instruments Mixed-signal analysis: time-correlated 2 analog + 16 digital channels (20 total) 8-digit Counter/Totalizer Arbitrary Waveform Generator (optional, 20 MHz): sine, square, ramp, pulse, DC, Sinc(x), exponential, cardiac, Gaussian, noise; AM/FM/FSK modulation Serial Protocol Analysis (optional): I2C, SPI, RS232/422/485/UART, CAN, CAN FD, LIN, SENT, CXPI, FlexRay, MIL-STD 1553, ARINC 429, USB PD, I2S; dual-bus simultaneous decode Digital Voltmeter (optional, 3-digit) Advanced Analysis Math functions: Differentiate, Integrate, FFT Magnitude/Phase, Square Root, Ax+B, Square, Absolute Value, Common/Natural Logarithm, Exponential, Base 10 Exponential Display 8.5-inch capacitive touch screen with gesture support

Typical Applications

Mixed-signal embedded system debugging, digital protocol validation, analog circuit characterization, and serial bus analysis in automotive, industrial, and consumer electronics development.

MSOX3012T Characteristics / Specifications

PARAMETER	VALUE
Model	MSOX3012T
Series Family	InfiniiVision 3000T X-Series
Instrument Type	Mixed signal oscilloscope
Bandwidth	100 MHz
Calculated Rise Time 10 To	less than or equal to 3.5 ns
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 Standard	4 Mpts
Maximum Memory Depth All Channels Class	2 Mpts class sharing
Display	8.5 inch capacitive touch gesture-enabled
Waveform Update Rate	greater than 1,000,000 waveforms per second
Time Base Range	5 ns/div to 50 s/div
Time Base Accuracy	+/-1.6 ppm plus aging factor
Digital Min Detectable Pulse Width	5 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns
Segmented Memory Maximum Segments	1000
Segmented Memory Rearm Time	1 us minimum
Connectivity Standard	USB 2.0 host and device
Interfaces Optional	LAN video GPIB class modules
Vertical Resolution	8 bits; up to 12 bits high-resolution mode class
Chassis Form	benchtop oscilloscope

PARAMETER	VALUE
Rise Time	10 To 90: less than or equal to 3.5 ns

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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Notes

From Keysight InfiniiVision 3000T X-Series oscilloscope data sheet model columns for MSOX3012T. Installed bandwidth/MSO/WaveGen licenses determine final capability.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.