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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOX3034T

WaveGen Option: optional 20 MHz function/AWG (DSOX3WAVEGEN) Optional Interfaces: LAN/VGA (DSOXLAN) and GPIB (DSOXGPIB) Dimensions WxHxD: 381 mm x 204 mm x 142 mm

Numeric rows from Keysight InfiniiVision 3000T X-Series oscilloscope data sheet model columns for MSOX3034T. Optional Interfaces: LAN/VGA (DSOXLAN) and GPIB (DSOXGPIB) Dimensions WxHxD: 381 mm x 204 mm x 142 mm Numeric rows from Keysight InfiniiVision 3000T X-Series oscilloscope data sheet model columns for MSOX3034T.



MODEL

**Agilent / Keysight
MSOX3034T**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOX3034T

LISTING

<https://aumictechlabs.com/products/msox3034t-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight MSOX3034T is a mixed-signal oscilloscope combining 4 analog channels with 16 digital channels for comprehensive signal capture and analysis. It delivers 5 GSa/s maximum sample rate, 350 MHz baseline bandwidth (upgradable to 500 MHz or 1 GHz), and an 8.5-inch capacitive touch display with gesture support. The instrument captures 1,000,000 waveforms per second with 4 Mpts memory depth, enabling detection of intermittent faults and signal transients. Digital channels support configurable thresholds (TTL, CMOS, ECL, or user-defined -8 V to +8 V) with independent threshold control per 8-channel group and sampling to 1.25 GSa/s. Advanced triggering encompasses edge, pulse width, rise/fall time, video, and protocol-specific modes (USB, NFC, CAN, I2C, SPI, UART/RS232, ARINC 429, LIN, MIL-STD-1553,

FlexRay, CXPI, NRZ, Manchester encoding). The scope integrates 35 automated measurements, FFT analysis, protocol decoding, an 8-digit counter, 3-digit voltmeter, and optional 20 MHz arbitrary waveform generator. The AutoProbe interface supports active, differential, and current probes. Included accessories are four N2843A 500 MHz passive probes (10:1 attenuation, 10 M Ω impedance) with Probe ID technology, plus a 16-channel digital MSO cable.

Technical Specifications
Bandwidth: 350 MHz (upgradable to 500 MHz or 1 GHz)
Analog Channels: 4
Digital Channels: 16 (sampling to 1.25 GSa/s, toggle rate to 200 MHz)
Sample Rate: 5 GSa/s (2.5 GSa/s when channels 1 & 2 or 3 & 4 paired)
ADC Resolution: 8 bits
Memory: 4 Mpts with segmented smart memory and MegaZoom IV technology
Waveform Update Rate: 1,000,000 waveforms/s
Display: 8.5-inch capacitive touch WVGA LCD, gesture-enabled
Digital Thresholds: TTL (1.4 V), CMOS (2.5 V), ECL (-1.3 V), user-defined (-8 V to +8 V)
Trigger Types: Edge, pulse width, rise/fall time, video, USB, NFC, CAN, I2C, SPI, UART/RS232, ARINC 429, LIN, MIL-STD-1553, FlexRay, CXPI, NRZ, Manchester encoding; 10 parametric trigger types
Measurements: 35 automated (50 with optional N2820A current probe); FFT math
Dimensions: 381 mm $\times$ 142 mm $\times$ 204 mm
Weight: 3.9 kg
Power: 125 V AC (North American cord included)

Key Features
7-in-1 instrument: oscilloscope, logic analyzer, protocol analyzer, frequency response analyzer, WaveGen, voltmeter, counter
Zone touch triggering for intuitive waveform capture
Serial protocol decode: I2C, I2S, SPI, CAN, UART/RS232, USB
Power Delivery, Manchester, ARINC 429, LIN, MIL-STD-1553, FlexRay, SEMT, CXPI, NRZ
AutoProbe interface for active, differential, and current probe compatibility
Connectivity USB interface LAN/VGA adapter (included in select configurations)
Probe ID technology for automatic configuration

Typical Applications
Digital circuit debugging, embedded system signal analysis, serial protocol verification, power integrity measurement, and educational electronics training.

MSOX3034T Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Mixed Signal Oscilloscope
Series Family	InfiniiVision 3000T X-Series
Model	MSOX3034T
Analog Bandwidth	350 MHz (minus 3 dB)
Calculated Rise Time 10 to	1 ns or less
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
Digital Channel Sample Rate	1.25 GSa/s all pods
Waveform Update Rate	greater than 1,000,000 waveforms per second
Display	8.5 inch capacitive touch gesture enabled
Vertical Resolution	8 bits (12 bits with averaging)
Input Impedance	1 MOhm plus or minus 1 percent (14 pF); 50 ohm plus or minus 1.5 percent
Input Sensitivity Range	1 mV/div to 5 V/div (1 MOhm and 50 ohm)
Hardware Bandwidth Limit	approximately 20 MHz selectable
DC Vertical Gain Accuracy	plus or minus 2.0 percent full scale (warranted after 30 min warm up)
DC Vertical Offset Accuracy	plus or minus 0.1 div plus or minus 2 mV plus or minus 1 percent of offset setting
Offset Range Low	plus or minus 2 V (1 mV/div to 200 mV/div)
Offset Range High	plus or minus 50 V (greater than 200 mV/div to 5 V/div)
Maximum Input Voltage	135 Vrms; 190 Vpk
Channel To Channel Isolation	greater than 100:1 from DC to maximum specified bandwidth

PARAMETER	VALUE
Time Base Range	1 ns/div to 50 s/div
Time Base Accuracy	plus or minus 1.6 ppm plus aging (1st year plus or minus 0.5 ppm; 5 years plus or minus 1.5 ppm)
Segmented Memory Maximum Segments	1000
Segmented Memory Rearm Time	1 us minimum
Peak Detect Glitch Width	250 ps at all time base settings
Digital Min Detectable Pulse Width	5 ns
Digital Channel To Channel Skew Typical	2 ns
Digital Channel To Channel Skew Maximum	3 ns
Digital Input Impedance	100 kOhm plus or minus 2 percent at probe tip
Integrated DVM	standard 3 digit voltmeter
Hardware Counter	built in frequency counter / 8 digit class with totalizer
WaveGen Option	optional 20 MHz function/AWG (DSOX3WAVEGEN)
Connectivity Standard	USB 2.0
Dimensions WxHxD	381 mm x 204 mm x 142 mm
Weight Net	4.0 kg (9.0 lb)
Form Factor	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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Notes

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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.