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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent / Keysight MSO9064A Mixed Signal Oscilloscope: 600 MHz, 4 Analog Plus 16 Digital Channels

Agilent / Keysight MSO9064A Infiniium 9000 Mixed Signal Oscilloscope 600 MHz The Agilent MSO9064A is a 600 MHz Infiniium 9000 Series mixed-signal oscilloscope with 4 analog plus 16 digital channels. OEM Infiniium 9000 data sheets rate 5 GSa/s on 4 channels or 10 GSa/s on 2 channels, 20 Mpts standard memory depth per channel (40 Mpts on 2 channels), typical 10 to 90 percent rise time of 540 ps at 50 ohm, and 8-bit vertical resolution with averaging to 12 bits or more. Embedded mixed-signal debug, serial protocol analysis with applications, and general-purpose 600 MHz scope measurements on a large Infiniium display. The Agilent MSO9064A is a 600 MHz Infiniium 9000 Series mixed-signal oscilloscope with 4 analog plus 16 digital channels. OEM Infiniium 9000 data sheets rate 5 GSa/s on 4 channels or 10 GSa/s on 2 channels, 20 Mpts standard memory depth per channel (40 Mpts on 2 channels), typical 10 to 90 percent rise time of 540 ps at 50 ohm, and 8-bit vertical resolution with averaging to 12 bits or more. Embedded mixed-signal debug, serial protocol analysis with applications, and general-purpose 600 MHz scope measurements on a large Infiniium display.



MODEL

**Agilent / Keysight
MSO9064A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSO9064A

LISTING

<https://aumictechlabs.com/products/mso9064a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSO9064A is a 600 MHz mixed-signal oscilloscope that integrates oscilloscope, logic analyzer, and protocol analyzer functionality into a single instrument. With 4 analog channels and 16 digital channels, it delivers 5 GSa/s sampling on all analog inputs (10 GSa/s in 2-channel mode) and 2 GSa/s on digital channels. The instrument supports up to 500 Mpts memory per analog channel and 128 Mpts on digital channels, enabling extended capture windows for complex signal analysis. A 15-inch XGA display and advanced triggering capabilities including edge, glitch, runt, pattern, state, pulse width, setup and hold, and serial triggering make it suitable for debugging and validation of modern digital and mixed-signal designs.

Technical Specifications

Analog Measurement Bandwidth: 600 MHz Channels: 4 analog inputs Sample rate: 5 GSa/s (4-channel), 10 GSa/s (2-channel) Memory depth: 20 Mpts standard per channel (upgradable to 500 Mpts or 1 Gpts in 2-channel mode) Vertical resolution: 8 bits (≥ 12 bits with averaging) Input impedance: $50\ \Omega \pm 2.5\%$ or $1\ \text{M}\Omega \pm 1\%$ (11 pF typical) Input sensitivity: 1 mV/div to 5 V/div ($1\ \text{M}\Omega$), 1 mV/div to 1 V/div ($50\ \Omega$) Rise time (10%–90%): 540 ps @ $50\ \Omega$ Channel isolation: 50 dB (DC–50 MHz), 40 dB (>50 MHz–1 GHz), 25 dB (>1 GHz–4 GHz)

Digital Measurement Digital channels: 16 Sample rate: 2 GSa/s Memory depth: 128 Mpts @ 2 GSa/s single mode; 64 Mpts at lower rates

Display & Interface 15-inch XGA display USB 2.0 (4 host ports, 1 device port), LAN 10/100/1000 BaseT, GPIB, RS-232

Key Features InfiniiScan advanced triggering with protocol decode support (RS-232/UART, USB) EZJIT jitter analysis and high-speed SDA clock recovery software Integrated multi-tab protocol viewer 500 MHz passive probes included Hardware bandwidth limit: 20 MHz ($1\ \text{M}\Omega$ input only)

Typical Applications Complex digital system debugging, embedded protocol validation, mixed-signal circuit characterization, jitter measurement and analysis, serial communication testing.

Compatibility & Integration Standard GPIB and LAN connectivity enable remote operation and integration into automated test environments. Keysight I/O libraries suite included for programmable control.

MSO9064A Characteristics / Specifications

PARAMETER	VALUE
Model	MSO9064A
Instrument Type	Mixed-signal oscilloscope
Analog Bandwidth 50 Ohm	600 MHz
Analog Bandwidth 1 MOhm	500 MHz
Analog Channels	4
Digital Channels	16
Max Sample Rate 4 Channels	5 GSa/s
Max Sample Rate 2 Channels	10 GSa/s
Standard Memory 4 Channels	20 Mpts
Standard Memory 2 Channels	40 Mpts
Typical Rise Time 10 To 90 Percent 50 Ohm	540 ps
Typical Rise Time 20 To 80 Percent 50 Ohm	360 ps
Input Impedance 50 Ohm	50 ohm plus or minus 2.5 percent
Input Impedance 1 MOhm	1 MOhm plus or minus 1 percent 11 pF typical
Input Sensitivity 1 MOhm	1 mV/div to 5 V/div
Input Sensitivity 50 Ohm	1 mV/div to 1 V/div
Input Coupling 1 MOhm	AC 3.5 Hz and DC
Input Coupling 50 Ohm	DC
Vertical Resolution	8 bits; 12 bits or more with averaging
Bandwidth Limit 1 MOhm	20 MHz
Channel Isolation Dc To 50 Mhz	50 dB
Channel Isolation Above 50 Mhz To 2.5 Ghz	40 dB
Digital Real Time Sample Rate Class	up to 2 GSa/s class digital acquisition
Minimum Glitch Detection Digital Class	2 ns

PARAMETER	VALUE
Display Class	15 inch XGA Infiniium display
Form Factor	benchtop Infiniium 9000 Series
Bandwidth	50 Ohm: 600 MHz
Rise Time	10 To 90 Percent 50 Ohm: 540 ps

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	MS09064A
Instrument Type	Mixed-signal oscilloscope
Analog Bandwidth 50 Ohm	600 MHz
Analog Bandwidth 1 MOhm	500 MHz
Analog Channels	4
Digital Channels	16
Max Sample Rate 4 Channels	5 GSa/s
Max Sample Rate 2 Channels	10 GSa/s
Standard Memory 4 Channels	20 Mpts
Standard Memory 2 Channels	40 Mpts
Typical Rise Time 10 To 90 Percent 50 Ohm: 540 ps	
Typical Rise Time 20 To 80 Percent 50 Ohm: 360 ps	
Specifications	
PARAMETER	VALUE
Input Impedance 50 Ohm	50 ohm plus or minus 2.5 percent
Input Impedance 1 MOhm	1 MOhm plus or minus 1 percent 11 pF typical
Input Sensitivity 1 MOhm	1 mV/div to 5 V/div
Input Sensitivity 50 Ohm	1 mV/div to 1 V/div
Input Coupling 1 MOhm	AC 3.5 Hz and DC
Input Coupling 50 Ohm	DC
Vertical Resolution	8 bits; 12 bits or more with averaging
Bandwidth Limit 1 MOhm	20 MHz
Channel Isolation Dc To 50 Mhz	50 dB
Channel Isolation Above 50 Mhz To 2.5 Ghz: 40 dB	
Specifications	

PARAMETER	VALUE
Digital Real Time Sample Rate Class	up to 2 GSa/s class digital acquisition
Minimum Glitch Detection Digital Class	2 ns
Display Class	15 inch XGA Infiniium display
Form Factor	benchtop Infiniium 9000 Series

Notes
From Agilent/Keysight Infiniium 9000 Series Oscilloscopes data sheet and product fact sheet for MS09064A.
Memory upgrade options extend depth to 50 100 200 or 500 Mpts class.

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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Generated August 15, 2026

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