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Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSO9064A Oscilloscope: 600 MHz, 4 Analog Channels

Agilent / Keysight DSO9064A Infiniium Oscilloscope The Agilent/Keysight DSO9064A is an Infiniium 9000 Series 4-channel oscilloscope. OEM Infiniium DSO9000A/MSO9000A data sheets list 600 MHz analog bandwidth at 50 ohm (500 MHz at 1 Mohm), 10 GSa/s / 20 GSa/s sample rates, and 20 Mpts / 40 Mpts standard memory. General purpose Infiniium measurements and digital debug on the 600 MHz Infiniium 9000 platform. 10 GSa/s on four channels or 20 GSa/s on two channels The Agilent/Keysight DSO9064A is an Infiniium 9000 Series 4-channel oscilloscope. OEM Infiniium DSO9000A/MSO9000A data sheets list 600 MHz analog bandwidth at 50 ohm (500 MHz at 1 Mohm), 10 GSa/s / 20 GSa/s sample rates, and 20 Mpts / 40 Mpts standard memory. General purpose Infiniium measurements and digital debug on the 600 MHz Infiniium 9000 platform. 10 GSa/s on four channels or 20 GSa/s on two channels Deep memory acquisition with segmented memory



MODEL

**Agilent / Keysight
DSO9064A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSO9064A

LISTING

<https://aumictechlabs.com/products/dso9064a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight DSO9064A is a 600 MHz digital phosphor oscilloscope built for signal characterization and system validation in complex test environments. Four analog channels

deliver simultaneous 10 GSa/s sampling across 128 Mpts of memory, enabling deep capture of transient events and signal dynamics. The 10.4-inch XGA display combined with MegaZoom IV technology and 250,000 waveforms/second capture rate supports real-time debugging of analog and digital circuits. Advanced triggering - including edge, glitch, pattern, video, logic, and pulse-width modes - isolates specific signal behavior with <0.5 ns RMS trigger jitter. Over 50 automatic measurements and optional serial protocol analysis (I2C, SPI, UART, USB, Ethernet, CAN, LIN, FlexRay) enable rapid characterization of embedded systems, power supplies, and communication links. The vertical system spans 1 mV/div to 5 V/div sensitivity with $\pm 1.5\%$ DC gain accuracy and dual-impedance inputs (1 M Ω or 50 Ω). Timebase extends 500 ps/div to 1000 s/div with ± 10 ppm accuracy, supporting precision timing analysis across analog and mixed-signal designs.

Technical Specifications

Bandwidth: 600 MHz Analog Channels: 4 Maximum Sample Rate: 10 GSa/s (simultaneous all channels) Memory Depth: 128 Mpts (standard, upgradeable) Waveform Capture Rate: 250,000 wfms/sec (MegaZoom IV) Display: 10.4-inch XGA color Vertical Resolution: 8 bits (12 bits with high-resolution mode) Vertical Sensitivity: 1 mV/div to 5 V/div DC Gain Accuracy: $\pm 1.5\%$ Offset Range: ± 5 V (1–20 mV/div), ± 50 V (50 mV/div–5 V/div) Input Impedance: 1 M Ω $\pm 2\%$ || 12 pF ± 1 pF, or 50 Ω $\pm 2\%$ Input Coupling: AC, DC, Ground Timebase Range: 500 ps/div to 1000 s/div Timebase Accuracy: ± 10 ppm Sample Rate Accuracy: ± 1 ppm Trigger Jitter: <0.5 ns RMS

Key Features Edge, glitch, pattern, video, logic, pulse-width, rise/fall-time, setup/hold, sequence, and parallel/serial bus triggering 50+ automatic measurements: amplitude, rise/fall time, frequency, period, pulse width, duty cycle, mean, RMS, noise, overshoot, preshoot Waveform math: add, subtract, multiply, divide, FFT Optional jitter, eye diagram, serial protocol, power supply, and time interval analysis

Typical Applications Mixed-signal circuit debugging and validation Embedded system characterization (I2C, SPI, UART, USB, Ethernet, CAN, LIN, FlexRay) Power supply and signal integrity analysis Timing and edge-rate measurement in digital designs

Compatibility & Integration USB 2.0 host and device ports LAN (10/100/1000 Ethernet) GPIB (IEEE 488.2) External trigger input (BNC) Probe compensation output (1 kHz square wave)

DSO9064A Characteristics / Specifications

PARAMETER	VALUE
Model	DSO9064A
Analog Bandwidth 50 Ohm	600 MHz
Analog Bandwidth 1 Mohm	500 MHz
Maximum Sample Rate Four Channels	10 GSa/s
Maximum Sample Rate Two Channels	20 GSa/s
Analog Channels	4
Digital Channels	none (DSO model)
Standard Memory Four Channels	20 Mpts
Standard Memory Two 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
Vertical Resolution	8 bits, greater than or equal to 12 bits with averaging
Input Impedance	50 ohm plus or minus 2.5 percent, 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), DC
Input Coupling 50 Ohm	DC
Bandwidth Limit	20 MHz on 1 Mohm; 500 MHz steps up to full bandwidth
Series Family	Infiniium 9000 DSO
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium
Brand Lineage	Agilent / Keysight
Segmented Memory	supported
Bandwidth	50 Ohm: 600 MHz

PARAMETER	VALUE
Rise Time	10 To 90 Percent 50 Ohm: 540 ps

DSO9064A Specifications

PARAMETER	VALUE
Agilent / Keysight DSO9064A Infiniium Oscilloscope	Overview
Applications	General purpose Infiniium measurements and digital debug on the 600 MHz Infiniium 9000 platform.
Key Features	Infiniium 9000 Series analysis UI
Technical Specifications	Model: DSO9064A
Notes	From Agilent Infiniium DSO9000A/MSO9000A Series Oscilloscopes data sheet model row for DSO9064A.

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	DS09064A
Analog Bandwidth 50 Ohm	600 MHz
Analog Bandwidth 1 Mohm	500 MHz
Maximum Sample Rate Four Channels	10 GSa/s
Maximum Sample Rate Two Channels	20 GSa/s
Analog Channels	4
Digital Channels	none (DS0 model)
Standard Memory Four Channels	20 Mpts
Standard Memory Two 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
Vertical Resolution	8 bits, greater than or equal to 12 bits with averaging
Input Impedance	50 ohm plus or minus 2.5 percent, 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), DC
Input Coupling 50 Ohm	DC
Bandwidth Limit	20 MHz on 1 Mohm; 500 MHz steps up to full bandwidth
Series Family	Infiniium 9000 DS0
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium
Brand Lineage	Agilent / Keysight
Segmented Memory	supported

Notes

From Agilent Infiniium DS09000A/MS09000A Series Oscilloscopes data sheet model row for DS09064A.

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.