

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 31, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSO9404A Oscilloscope: 4 GHz, 4 Analog Channels

Agilent / Keysight DSO9404A Infiniium Oscilloscope The Agilent/Keysight DSO9404A is an Infiniium 9000 Series 4-channel oscilloscope. OEM Infiniium DSO9000A/MSO9000A data sheets list 4 GHz analog bandwidth at 50 ohm, 10 GSa/s on 4 channels or 20 GSa/s on 2 channels, and 20 Mpts / 40 Mpts standard memory depth. High-speed digital debug and serial analysis needing 4 GHz real-time bandwidth on the Infiniium 9000 platform. 10 GSa/s on four channels or 20 GSa/s on two channels The Agilent/Keysight DSO9404A is an Infiniium 9000 Series 4-channel oscilloscope. OEM Infiniium DSO9000A/MSO9000A data sheets list 4 GHz analog bandwidth at 50 ohm, 10 GSa/s on 4 channels or 20 GSa/s on 2 channels, and 20 Mpts / 40 Mpts standard memory depth. High-speed digital debug and serial analysis needing 4 GHz real-time bandwidth on the 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
DSO9404A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSO9404A

LISTING

<https://aumictechlabs.com/products/dso9404a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight DSO9404A is a 4 GHz, 4-channel oscilloscope engineered for high-speed signal analysis, troubleshooting, and complex waveform capture. It combines oscilloscope, logic

analyzer, and protocol analyzer functionality in a single instrument, delivering the sample rates, memory depth, and triggering sophistication required for demanding electronics design, research, and manufacturing environments.

Technical Specifications

Bandwidth & Acquisition Analog bandwidth: 4.0 GHz at 50 Ω Rise time (10%-90%): 85 ps at 50 Ω Rise time (20%-80%): 59 ps at 50 Ω Sample rate: 10 GSa/s (4-channel mode) / 20 GSa/s (2-channel mode) Memory depth: 20 Mpts standard (4-channel) / 40 Mpts standard (2-channel), upgradeable to 1 Gpts

Vertical System Input channels: 4 analog Input impedance: 50 Ω $\pm$ 2.5% or 1 M Ω $\pm$ 1% (11 pF typical) Input sensitivity: 1 mV/div to 5 V/div (1 M Ω) / 1 mV/div to 1 V/div (50 Ω) Vertical resolution: 8 bits ($\geq$ 12 bits with averaging) Input coupling: AC (3.5 Hz) or DC (1 M Ω); DC only (50 Ω) Maximum input voltage: 150 Vrms or dc (1 M Ω , CAT I) / 5 Vrms (50 Ω) Minimum input voltage swing: 500 mV peak-to-peak

Channel-to-channel isolation: 50 dB (DC–50 MHz) / 40 dB (>50 MHz–1 GHz) / 25 dB (>1 GHz–4 GHz) Hardware bandwidth limit: 20 MHz (1 M Ω input)

Display & System 15-inch XGA LCD with touch screen Processor: Intel Core 2 Duo M890 3.0 GHz or Intel Celeron M530 1.733 GHz System memory: 4 GB or 2 GB Storage: $\geq$ 250 GB internal hard drive Operating system: Windows 7 Embedded Standard or Windows XP Pro Dimensions: 9 inches (23 cm) depth Weight: 26 pounds (11.8 kg)

Key Features Deep capture memory enables extended waveform observation without data loss Dual-impedance inputs support both high-impedance and 50 Ω terminated measurements Fast acquisition rates in reduced-channel modes for transient signal capture 8-bit vertical resolution with hardware averaging option Multi-protocol analysis in single instrument reduces bench footprint

Typical Applications High-speed digital circuit characterization and validation RF and microwave signal measurement and debugging Protocol analysis and embedded system diagnostics Signal integrity analysis in PCB and packaging design Manufacturing test and failure analysis

Compatibility & Integration The DSO9404A operates on Windows 7 Embedded Standard or Windows XP Pro, enabling integration with standard IT infrastructure and third-party software tools commonly deployed in engineering labs and production environments.

DSO9404A Characteristics / Specifications

PARAMETER	VALUE
Model	DSO9404A
Analog Bandwidth 50 Ohm	4 GHz
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	85 ps
Typical Rise Time 20 To 80 Percent 50 Ohm	59 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
Channel To Channel Isolation Above 2.5 GHz To 4 GHz	25 dB
Series Family	Infiniium 9000 DSO
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium
Brand Lineage	Agilent / Keysight
Bandwidth	50 Ohm: 4 GHz

PARAMETER	VALUE
Rise Time	10 To 90 Percent 50 Ohm: 85 ps

DSO9404A Specifications

PARAMETER	VALUE
Agilent / Keysight DSO9404A Infiniium Oscilloscope	Overview
Applications	High-speed digital debug and serial analysis needing 4 GHz real-time bandwidth on the Infiniium 9000 platform.
Key Features	Infiniium 9000 Series analysis UI
Technical Specifications	Model: DSO9404A
Notes	From Agilent Infiniium DSO9000A/MSO9000A Series Oscilloscopes data sheet model row for DSO9404A.

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	DS09404A
Analog Bandwidth 50 Ohm	4 GHz
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: 85 ps	
Typical Rise Time 20 To 80 Percent 50 Ohm: 59 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
Channel To Channel Isolation Above 2.5 GHz To 4 GHz: 25 dB	
Specifications	
PARAMETER	VALUE
Series Family	Infiniium 9000 DSO
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop Infiniium

PARAMETER	VALUE
-----------	-------

Brand Lineage	Agilent / Keysight
---------------	--------------------

Notes

From Agilent Infiniium DS09000A/MS09000A Series Oscilloscopes data sheet model row for DS09404A.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 31, 2026

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