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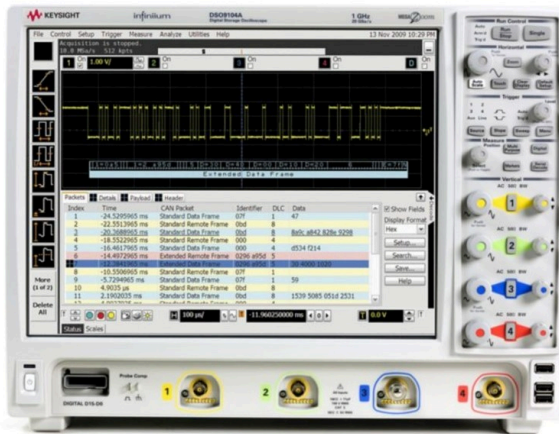
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSO9104A Oscilloscope: 1 GHz, 4 Analog

Agilent DSO9104A Infiniium 9000 Series Oscilloscope The Agilent/Keysight DSO9104A is an Infiniium 9000 Series oscilloscope with 1 GHz analog bandwidth on 50 ohm paths. OEM 9000 Series datasheets list 10 GSa/s on 4 channels or 20 GSa/s on 2 channels, standard 20 Mpts/40 Mpts memory, and a 15 inch XGA display. High-speed digital debug, serial decode, mixed-signal timing (MSO models), and general-purpose Infiniium analysis. MegaZoom deep memory options up to Option 500 The Agilent/Keysight DSO9104A is an Infiniium 9000 Series oscilloscope with 1 GHz analog bandwidth on 50 ohm paths. OEM 9000 Series datasheets list 10 GSa/s on 4 channels or 20 GSa/s on 2 channels, standard 20 Mpts/40 Mpts memory, and a 15 inch XGA display. High-speed digital debug, serial decode, mixed-signal timing (MSO models), and general-purpose Infiniium analysis. MegaZoom deep memory options up to Option 500 Vertical Resolution: 8 bit; high res mode 9 to 12 bits selectable



MODEL

**Agilent / Keysight
DSO9104A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSO9104A

LISTING

<https://aumictechlabs.com/products/dso9104a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight DSO9104A is a 1 GHz, 4-channel digital storage oscilloscope from the Infiniium 9000 Series, designed for signal analysis, debugging, and protocol investigation. It

combines oscilloscope, logic analyzer, and protocol analyzer capabilities in a single instrument, delivering 10 GSa/s analog sampling (4-channel mode) with up to 1 Gpts memory depth per channel and advanced triggering across mixed signal domains.

Technical Specifications

Bandwidth and Sampling Analog bandwidth: 1 GHz Analog channels: 4 Analog sample rate: 10 GSa/s (4-channel mode), 20 GSa/s (2-channel mode) Standard memory: 20 Mpts per channel (4-channel), 40 Mpts per channel (2-channel) Upgradable memory: Up to 1 Gpts per channel (2-channel mode) Rise time (10%-90%): 174 ps at 50 Ω Rise time (20%-80%): 59 ps at 50 Ω

Vertical Characteristics Resolution: 8 bits (up to 12 bits with averaging) Input impedance: 50 $\Omega \pm 2.5\%$ or 1 M $\Omega \pm 1\%$ (11 pF typical) Sensitivity: 1 mV/div to 5 V/div (1 M Ω), 1 mV/div to 1 V/div (50 Ω) Input coupling: AC (3.5 Hz), DC Hardware bandwidth limit: 20 MHz (1 M Ω input only)

Triggering and Display Advanced triggering: Edge, glitch, runt, timeout, pattern/pulse range, state, pulse width, line, window, setup and hold, video, and serial Mixed-signal triggering across time-correlated analog and digital channels Display: 15" XGA LCD

Key Features

Four included N2873A 500 MHz passive probes USB and LAN connectivity; XGA/DVI video output Trig in/out synchronization ports GPIB support via N4865A adapter Optional integrated protocol viewers for physical layer analysis Support for custom measurement development

Typical Applications

Serial protocol analysis, jitter characterization, compliance testing, and mixed-signal debugging across analog and digital domains.

Compatibility & Integration

Standard Keysight I/O libraries suite included. Optional protocol analysis modules and user-defined applications (e.g., N5467A) expand measurement capabilities.

DSO9104A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth 50 Ohm	1 GHz
Analog Bandwidth 1 MOhm	500 MHz
Maximum Sample Rate 4 Channel	10 GSa/s
Maximum Sample Rate 2 Channel	20 GSa/s
Standard Memory 4 Channel	20 Mpts
Standard Memory 2 Channel	40 Mpts
Analog Channels	4
Logic Channels	0
Channel Configuration	4 analog
Display	15 inch XGA
Vertical Resolution	8 bit; high res mode 9 to 12 bits selectable
Input Impedance	50 ohm and 1 MOhm
Roll Mode	200 ms to 20 s
Equivalent Time Max	1000 GSa/s effective with 1.0 ps interpolator
Segment Timestamp Resolution	1 ps
Standard Segment Count	up to 8192 segments
Max Time Between Triggers	562950 s (6.5 days)
Rearm Time Analog	4.5 us
Digital Channel Sample Rate MSO	2 GSa/s
Digital Memory MSO	128/64 Mpts at 2 GSa/s
Digital Glitch Detect MSO	2 ns minimum width
Memory Option 50M	50/100 Mpts
Memory Option 1	100/200 Mpts
Memory Option 2	200/400 Mpts
Memory Option 5	500/250 Mpts on 4 ch or 1 Gpts/500 Mpts on 2 ch

PARAMETER	VALUE
Series Family	Infiniium 9000
Bandwidth	50 Ohm: 1 GHz

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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PARAMETER	VALUE
Analog Bandwidth 50 Ohm	1 GHz
Analog Bandwidth 1 MOhm	500 MHz
Maximum Sample Rate 4 Channel	10 GSa/s
Maximum Sample Rate 2 Channel	20 GSa/s
Standard Memory 4 Channel	20 Mpts
Standard Memory 2 Channel	40 Mpts
Analog Channels	4
Logic Channels	0
Channel Configuration	4 analog
Display	15 inch XGA
Vertical Resolution	8 bit; high res mode 9 to 12 bits selectable
Input Impedance	50 ohm and 1 MOhm
Roll Mode	200 ms to 20 s
Equivalent Time Max	1000 GSa/s effective with 1.0 ps interpolator
Segment Timestamp Resolution	1 ps
Standard Segment Count	up to 8192 segments
Option 500 Segment Count: up to 131072 segments	
Specifications	
PARAMETER	VALUE
Max Time Between Triggers	562950 s (6.5 days)
Rearm Time Analog	4.5 us
Digital Channel Sample Rate MS0	2 GSa/s
Digital Memory MS0	128/64 Mpts at 2 GSa/s
Digital Glitch Detect MS0	2 ns minimum width
Memory Option 50M	50/100 Mpts

PARAMETER	VALUE
Memory Option 100	100/200 Mpts
Memory Option 200	200/400 Mpts
Memory Option 500	500/250 Mpts on 4 ch or 1 Gpts/500 Mpts on 2 ch
Series Family	Infiniium 9000

Notes

Bandwidth/sample/memory numbers from Agilent/Keysight Infiniium 9000 Series oscilloscope datasheets. Confirm installed memory and MSO options.

Ordering Information

OPTION	DESCRIPTION
Option 500	Advanced triggering including serial

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>

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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.