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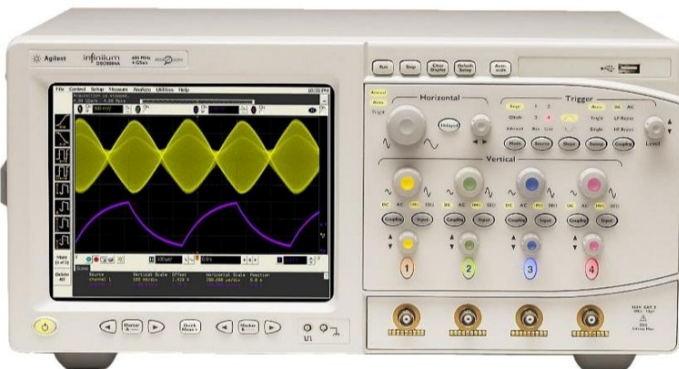
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight DSO8104A Infiniium Oscilloscope: 1 GHz, 4 channels

HP Agilent DSO8104A Infiniium Oscilloscope The HP Agilent DSO8104A is an Infiniium class oscilloscope with 1 GHz analog bandwidth and 4 GSa/s maximum sample rate. OEM DSO8104A materials list deep memory options, advanced triggering, and analysis applications for high-speed digital and RF debug. High-speed digital debug, serial bus analysis, power integrity checks, and general purpose oscilloscope measurements on the 1 GHz platform. Maximum Memory Depth: up to 128 Mpts class by option The HP Agilent DSO8104A is an Infiniium class oscilloscope with 1 GHz analog bandwidth and 4 GSa/s maximum sample rate. OEM DSO8104A materials list deep memory options, advanced triggering, and analysis applications for high-speed digital and RF debug. High-speed digital debug, serial bus analysis, power integrity checks, and general purpose oscilloscope measurements on the 1 GHz platform. Maximum Memory Depth: up to 128 Mpts class by option Input Impedance: 50 ohms and 1 Mohm paths class



MODEL

**Agilent / Keysight
DSO8104A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DSO8104A

LISTING

<https://aumictechlabs.com/products/dso8104a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight DSO8104A Infiniium Oscilloscope delivers 1 GHz analog bandwidth across four channels, engineered for signal integrity measurements and mixed-signal analysis. With configurable memory up to 128 Mpts, 4 GSa/s sampling, and optional 16 digital channels for time-correlated acquisition, this instrument captures and characterizes both analog and digital activity simultaneously. The XGA touchscreen display with 256 intensity levels and Windows-based interface enables intuitive drag-and-drop measurements, while advanced pattern and mixed-signal triggering supports demanding debug workflows.

Technical Specifications

Analog
Bandwidth: 1 GHz across 4 channels
Sampling Rate: 4 GSa/s maximum
Memory Depth: 8 Mpts standard; optional up to 128 Mpts with MegaZoom III technology
Vertical Resolution: 8 bits (>12 bits effective with averaging)
Input Impedance: $1\text{ M}\Omega \pm 1\%$ (13 pF typical) or $50\ \Omega \pm 1.5\%$
Vertical Sensitivity: 1 mV/div to 5 V/div ($1\text{ M}\Omega$); 1 mV/div to 1 V/div ($50\ \Omega$)
Input Coupling: AC/DC ($1\text{ M}\Omega$); DC only ($50\ \Omega$)
Rise Time ($50\ \Omega$): 350 ps
Channel Isolation: 50 dB (DC to 50 MHz); 40 dB (>50 MHz to 500 MHz)
Bandwidth Limit: 20 MHz hardware filter
Acquisition Rate: Up to 2000 waveforms/sec

Digital Channels (MSO models): 16 time-correlated channels

Key Features
Pattern and mixed-signal triggering across all analog and digital channels
XGA color display with 256 intensity levels and Windows touchscreen interface
Drag-and-drop measurement capability for rapid analysis
LAN (10BASE-T, 100BASE-TX, 1000BASE-T), USB, GPIB, and RS-232 connectivity
LXI Class C compliant
Low 5U rackmount profile

Physical & Operating Specifications
Power Input: 100 to 240 VAC (auto-switching)
Maximum Power Dissipation: 440 W
Environmental Rating: Pollution Degree 2
Minimum Installation Clearance: 75 mm bottom

Typical Applications
Signal integrity analysis, mixed-signal embedded system debug, time-correlated analog-digital correlation, and high-frequency circuit characterization.

DSO8104A Characteristics / Specifications

PARAMETER	VALUE
Analog Bandwidth	1 GHz
Maximum Sample Rate	4 GSa/s
Analog Channels	4
Maximum Memory Depth	up to 128 Mpts class by option
Vertical Resolution	8 bit
Input Impedance	50 ohms and 1 Mohm paths class
Input Coupling	AC DC GND
Time Base Range Class	wide Infiniium time base class
Trigger Types	edge pulse width pattern glitch class
Display	color LCD graphical UI
Probe Interface Class	AutoProbe or InfiniiMax class by series
Math Functions	waveform math and FFT class
Segmented Memory	available class
Peak Detect Mode	available class
Roll Mode Class	available at slow time bases class
Series Family	Infiniium 8000
MSO Companion	MSO8104A class logic
InfiniiScan Search	available class
Jitter Analysis Options	available
Remote Interfaces	LAN USB GPIB class
Form Factor	benchtop instrument
Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class

PARAMETER	VALUE
Bandwidth	1 GHz
Operating temperature	Class: standard laboratory class

DSO8104A Specifications

PARAMETER	VALUE
HP Agilent DSO8104A Infiniium Oscilloscope	Overview
Applications	High-speed digital debug, serial bus analysis, power integrity checks, and general purpose oscilloscope measurements on the 1 GHz platform.
Technical Specifications	Analog Bandwidth: 1 GHz

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: standard laboratory class
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Operating Temperature Class	standard laboratory class
Calibration Interval Class	annual calibration class recommended
Power Mains Class	100 to 240 VAC class
Firmware Upgrade Path	option and firmware upgradeable class Notes Bandwidth and sample rate from Agilent/Keysight DSO8104A oscilloscope documentation. Confirm installed memory and application options for exact record length.

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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Firmware Upgrade Path	option and firmware upgradeable class

Notes

Bandwidth and sample rate from Agilent/Keysight DS08104A oscilloscope documentation. Confirm installed memory and application options for exact record length.

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.