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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSO8104A/DSO8104A

Agilent / Keysight Mixed Signal Oscilloscopes (MSO). Bandwidth: 1 GHz, Channels: 16 (MSO8104A only), Sample Rate: 4 GSa/s (2-channel mode).

**MODEL****Agilent / Keysight
MSO8104A/DSO8104A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****MSO8104A/DSO8104A****LISTING**<https://aumictechlabs.com/products/mso8104a-dso8104a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight MSO8104A and DSO8104A are 1 GHz bandwidth oscilloscopes built for analog, digital, and serial signal analysis. The MSO8104A combines 4 analog channels with 16 time-correlated digital channels, while the DSO8104A provides 4 analog channels alone. Both instruments deliver 4 GSa/s sample rate in 2-channel mode (2 GSa/s in 4-channel mode) and feature MegaZoom III technology for responsive acquisition across deep memory up to 128 Mpts. With 350 ps rise time and 8-bit vertical resolution expandable to 12 bits via averaging, these instruments resolve signal details across voltage ranges from 1 mV/div to 5 V/div on 1 M Ω inputs or 1 mV/div to 1 V/div on 50 Ω inputs. Technical Specifications Bandwidth: 1 GHz Analog Channels: 4 Digital Channels: 16 (MSO8104A only) Sample Rate: 4 GSa/s (2-channel mode); 2 GSa/s (4-channel mode) Memory Depth: 8 Mpts standard; up to 128 Mpts optional Vertical Resolution: 8 bits (12 bits with averaging) Rise Time: 350 ps Input Impedance: 1 M Ω $\pm$ 1% (13 pF typical); 50 Ω $\pm$ 1.5% Input Coupling: AC, DC Display: XGA color with 256 intensity levels Form Factor: 5U

rackmount height Operating System: Windows XP ProKey Features MegaZoom III technology enables deep memory analysis with responsive zoom Pattern and mixed-signal triggering across all analog and digital channels Time-correlated analog and digital signal capture LAN, USB, GPIB, and LXI Class C connectivity XGA video output Touchscreen display interfaceSerial Data & Analysis Options I2C, SPI, and CAN serial decode USB and Ethernet compliance software High-speed and low-speed serial data analysis Automotive serial data analysis (CAN, FlexRay) EZJIT and EZJIT Plus jitter analysis Vector signal analysis (VSA) DDR1 compliance testing Power measurement and noise reduction software InfiniiMax active probe compatibility

MSO8104ADS08104A 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

MSO8104ADSO8104A Specifications

PARAMETER	VALUE
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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Operating Temperature Class	standard laboratory class
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Power Mains Class	100 to 240 VAC class
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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

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

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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.