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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOS804A

Channel Bandwidth Four Active Note: 4 GHz when four channels active; 8 GHz with two channels Acquisition Architecture: Infiniium S-Series low-noise front end Connectivity Class: USB LAN GPIB class Infiniium interfaces From Keysight Infiniium S-Series oscilloscope product fact sheet 5991-4028 model column for MSOS804A. 6 GHz and 8 GHz bandwidths are two-channel active modes with 4 GHz four-channel bandwidth. Acquisition Architecture: Infiniium S-Series low-noise front end Connectivity Class: USB LAN GPIB class Infiniium interfaces From Keysight Infiniium S-Series oscilloscope product fact sheet 5991-4028 model column for MSOS804A. 6 GHz and 8 GHz bandwidths are two-channel active modes with 4 GHz four-channel bandwidth.



MODEL

**Agilent / Keysight
MSOS804A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOS804A

LISTING

<https://aumictechlabs.com/products/msos804a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight MSOS804A is a mixed-signal oscilloscope integrating 8 GHz analog channels with 16 digital logic channels for simultaneous capture and analysis of complex signal behaviors. Built for signal integrity analysis, high-speed digital debugging, and compliance testing, the instrument delivers 10-bit vertical resolution (up to 16 bits in enhanced mode) across dual acquisition architectures. The 15-inch capacitive touchscreen with XGA resolution supports multi-touch gesture control and intuitive setup wizards. Technical Specifications Analog Channels: Bandwidth:

8 GHz (2-channel mode), 4 GHz (4-channel mode) Sample rate: 20 GS/s (2 channels), 10 GS/s (4 channels) Vertical resolution: 10 bits standard, 16 bits enhanced Input sensitivity: 1 mV/div to 1 V/div (50 Ω), 1 mV/div to 5 V/div (1 M Ω) Input impedance: 50 $\Omega \pm 3.5\%$ or 1 M $\Omega \pm 1\%$ Rise/fall time: 53.8 ps (10/90%), 33.8 ps (20/80%) DC gain accuracy: $\pm 2\%$ of full scale ($\pm 1\%$ typical) Noise floor: 1.4 mV at 50 mV/div Memory depth: 100 Mpts/channel standard; up to 800 Mpts/channel (2-channel) or 400 Mpts/channel (4-channel) with options Digital Channels: 16 channels at 400 MHz analog bandwidth Maximum input voltage: ± 40 VPEAK Input impedance: 100 k $\Omega \pm 2\%$ Channel-to-channel skew: 500 ps typical Threshold selections: TTL, CMOS (5.0 V, 3.3 V, 2.5 V), ECL, PECL, user-defined (± 8 V) Threshold accuracy: ± 100 mV + 3% of setting

Key Features 250 GB removable SSD for rapid boot and instrument reliability 15-inch XGA capacitive display with multi-touch control Protocol and compliance software support Four N2873A 500 MHz passive probes included 16-channel flying lead logic probe set 8 GHz BNC calibration cable

Typical Applications High-speed digital design validation and debugging Mixed-signal characterization and system performance analysis Signal integrity measurements and compliance verification General-purpose laboratory signal analysis

Compatibility & Integration The instrument supports the Keysight I/O libraries suite for software integration and protocol analysis workflows.

MSOS804A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOS804A
Series Family	Infiniium S-Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	8 GHz
Calculated Rise Time 10 To	53.8 ps
Analog Channels	4
Digital Channels	16
Sample Rate Two Channels	20 GSa/s
Sample Rate Four Channels	10 GSa/s
Standard Memory Depth	100 Mpts/ch
Memory Upgrade Class	up to 400 Mpts/ch
Vertical Resolution Full Bandwidth	10 bits
Vertical Resolution High Res Class	up to 16 bits
Full Bandwidth Enob Typical	6.4
Full Bandwidth Noise Floor Typical	260 uV at 2 mV/div class
Rf Noise Density Typical	-160 dBm/Hz class
Sfdr Typical	72 dB class
Display	15 inch XGA capacitive touchscreen
External Display	VGA and DisplayPort
Channel Bandwidth Four Active Note	4 GHz when four channels active; 8 GHz with two channels
Chassis Form	benchtop Infiniium
Brand Lineage	Keysight / Agilent
Acquisition Architecture	Infiniium S-Series low-noise front end
Connectivity Class	USB LAN GPIB class Infiniium interfaces
Bandwidth	8 GHz

PARAMETER	VALUE
Rise Time	10 To 90: 53.8 ps

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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Notes

From Keysight Infiniium S-Series oscilloscope product fact sheet 5991-4028 model column for MSOS804A. 6 GHz and 8 GHz bandwidths are two-channel active modes with 4 GHz four-channel bandwidth.

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