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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSOS404A

Channel Bandwidth Four Active Note: 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 MSOS404A. 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 MSOS404A. 6 GHz and 8 GHz bandwidths are two-channel active modes with 4 GHz four-channel bandwidth.



MODEL

**Agilent / Keysight
MSOS404A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSOS404A

LISTING

<https://aumictechlabs.com/products/msos404a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keysight MSOS404A is a 4-channel mixed-signal oscilloscope built for signal integrity analysis and complex transient capture. With 4 GHz analog bandwidth, 16 digital logic channels, and sampling rates to 20 GSa/s across two channels, the instrument delivers the vertical resolution and acquisition depth required for modern embedded and RF debug work. Technical Specifications Analog Channels & Acquisition 4 analog channels with 4 GHz bandwidth (upgradable to 6 GHz and 8 GHz in 2-channel mode) Maximum sampling rate: 20 GSa/s (2 channels) / 10 GSa/s (4 channels) Memory: 100 Mpts per channel standard, expandable to 800

Mpts 10-bit ADC with upgrade path to 16-bit high-resolution mode System ENOB: 8.1 bits typical at full bandwidth Intrinsic jitter: 100 fs typical Digital Channels 16 digital logic channels with flying lead set probe Display & Interface 15-inch XGA capacitive touch screen with multi-touch gesture support (zoom, pan) Computing Platform Windows 10 operating system Intel i5 quad-core processor at 3 GHz 8 GB RAM 256 GB removeable SSD for fast boot and reliable operation Open Windows environment supports third-party application installation LXI Class C compliantKey Features Four times the vertical resolution of 8-bit oscilloscopes at 10-bit native resolution 16-bit resolution mode minimizes quantization noise for low-level signal observation Memory expandability decouples sample rate from capture duration 8 GHz BNC calibration cable included for system verificationTypical Applications Mixed-signal debug of digital and analog subsystems Low-jitter timing and clock analysis High-resolution acquisition of weak or noise-embedded signals Multi-protocol transient capture with extended trace lengthsCompatibility & Integration Includes four 500 MHz N2873A passive probes, 16-channel logic probe with MSO cable, calibration fixture, Keysight I/O libraries suite, keyboard, mouse, and probe accessory pouch.

MSOS404A Characteristics / Specifications

PARAMETER	VALUE
Model	MSOS404A
Series Family	Infiniium S-Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	4 GHz
Calculated Rise Time 10 To	107.5 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	7.2
Full Bandwidth Noise Floor Typical	153 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 four-channel bandwidth
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	4 GHz

PARAMETER	VALUE
Rise Time	10 To 90: 107.5 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 MSOS404A. 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.