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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSO7034A

Keysight / Agilent MSO7034A Infiniium Mixed Signal Oscilloscope 350 MHz The Keysight/Agilent MSO7034A is an Infiniium 7000A Series mixed-signal oscilloscope with 350 MHz bandwidth, 4 analog channels, and 16 digital channels. OEM Infiniium 7000 Series literature lists MegaZoom III deep memory architecture, up to 4 GSa/s sample rate class on interleaved modes, and a large color display for mixed analog/digital debug. Mixed-signal embedded debug, FPGA verification, and general Infiniium 7000A lab measurements to 350 MHz. The Keysight/Agilent MSO7034A is an Infiniium 7000A Series mixed-signal oscilloscope with 350 MHz bandwidth, 4 analog channels, and 16 digital channels. OEM Infiniium 7000 Series literature lists MegaZoom III deep memory architecture, up to 4 GSa/s sample rate class on interleaved modes, and a large color display for mixed analog/digital debug. Mixed-signal embedded debug, FPGA verification, and general Infiniium 7000A lab measurements to 350 MHz. Four analog plus sixteen digital channels Instrument Type: Mixed signal oscilloscope



MODEL

**Agilent / Keysight
MSO7034A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSO7034A

LISTING

<https://aumictechlabs.com/products/mso7034a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight MSO7034A is a 350 MHz mixed-signal oscilloscope combining 4 analog channels with 16 digital logic channels for time-correlated analysis of complex embedded systems. Part of the Infiniium 7000 Series, this instrument delivers 2 GSa/s sampling across all

channels, up to 64 Mpts of memory, and 100,000 waveforms/sec update rate - enabling rapid signal capture and deep protocol-level debugging.

Technical Specifications

Bandwidth: 350 MHz

Analog Channels: 4 Digital Channels: 16 (logic probe)

Sample Rate: Up to 2 GSa/s on all channels

Memory: 8 Mpts standard (MegaZoom III); expandable to 64 Mpts

Waveform Update Rate: Up to 100,000 waveforms/sec

Display: 12.1-inch XGA touchscreen, 256 intensity levels

Vertical Resolution: Up to 12 bits (high resolution mode)

Physical: 6.5 inches deep, 13 pounds

Key Features

Time-aligned analog and digital signal display for mixed-signal validation

Hardware-accelerated serial bus decoding: I²C, SPI, CAN, LIN, RS-232/UART, I²S

Advanced triggering: edge, pulse width, pattern, glitch, setup/hold, serial protocols

Segmented memory and mask limit testing

FPGA dynamic probe support (Xilinx and Altera)

PC-based offline data analysis and viewing

MegaZoom III technology for deep memory analysis

Typical Applications

Embedded system design and debugging

Mixed analog/digital signal validation

Serial bus protocol decoding and analysis

Power electronics and motor control diagnostics

High-speed digital logic verification

FPGA debugging

Automotive CAN/LIN diagnostics

Connectivity & Integration

Interfaces: USB, LAN, GPIB, XGA video output

Windows-based platform

MATLAB® software support for custom measurements and analysis routines

Optional application packages for protocol decoding, advanced math, and memory expansion

Optional modules: segmented memory (SGM), mask limit testing (LMT), automotive CAN/LIN (AMS), I²C/SPI decode (LSS), RS-232/UART decode (232), I²S decode (SND), secure environment mode (SEC), and ANSI Z540 calibration (A6J)

MSO7034A Characteristics / Specifications

PARAMETER	VALUE
Model	MSO7034A
Series Family	Infiniium 7000A Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	350 MHz
Analog Channels	4
Digital Channels	16
Maximum Sample Rate Class	up to 4 GSa/s interleaved class
Memory Architecture	MegaZoom III deep memory
Display	Infiniium color LCD class
Vertical Resolution	8 bits
Input Impedance Class	1 MOhm and 50 ohm paths class
Input Coupling	DC AC ground
Digital Channel Count	16
Mso Triggering	Mixed analog/digital trigger class
Remote Interfaces	GPIB LAN USB class
Chassis Form	benchtop Infiniium
Related Sibling	MSO7034B updated 7000B platform
Brand Lineage	Keysight / Agilent
Time Base Class	Infiniium 7000 timebase architecture
Acquisition Modes	Real-time Infiniium acquisition class
Probe Interface	AutoProbe class Infiniium probe support
Weight Class	Infiniium 7000 benchtop mass class
Power Class	AC mains Infiniium supply class
Documentation Scope	OEM Infiniium 7000 Series published tables
Bandwidth	350 MHz

MSO7034A Specifications

PARAMETER	VALUE
Applications	Mixed-signal embedded debug, FPGA verification, and general Infiniium 7000A lab measurements to 350 MHz.
Four analog plus sixteen digital channels	Infiniium 7000A deep memory architecture
Technical Specifications	Model: MSO7034A

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
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Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	350 MHz
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Chassis Form	benchtop Infiniium
Related Sibling	MS07034B updated 7000B platform
Brand Lineage	Keysight / Agilent
Time Base Class	Infiniium 7000 timebase architecture
Acquisition Modes	Real-time Infiniium acquisition class
Probe Interface	AutoProbe class Infiniium probe support
Weight Class	Infiniium 7000 benchtop mass class
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Documentation Scope	OEM Infiniium 7000 Series published tables

Notes

From Keysight/Agilent Infiniium 7000A Series oscilloscope documentation model row for MS07034A. Exact memory depth and sample-rate splits follow installed options and channel mode.

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.