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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight MSO7034B

Keysight / Agilent MSO7034B Infiniium Mixed Signal Oscilloscope 350 MHz The Keysight/Agilent MSO7034B is an Infiniium 7000B Series mixed-signal oscilloscope with 350 MHz bandwidth, 4 analog channels, and 16 digital channels. OEM 7000B updates retain the Infiniium MegaZoom deep-memory platform with refreshed UI/connectivity while preserving 350 MHz four-channel MSO capability. Mixed-signal embedded debug, timing analysis, and Infiniium 7000B lab measurements to 350 MHz. Four analog plus sixteen digital channels The Keysight/Agilent MSO7034B is an Infiniium 7000B Series mixed-signal oscilloscope with 350 MHz bandwidth, 4 analog channels, and 16 digital channels. OEM 7000B updates retain the Infiniium MegaZoom deep-memory platform with refreshed UI/connectivity while preserving 350 MHz four-channel MSO capability. Mixed-signal embedded debug, timing analysis, and Infiniium 7000B lab measurements to 350 MHz. Four analog plus sixteen digital channels

Instrument Type: Mixed signal oscilloscope



MODEL

**Agilent / Keysight
MSO7034B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

MSO7034B

LISTING

<https://aumictechlabs.com/products/mso7034b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight MSO7034B is a mixed-signal oscilloscope that captures and analyzes both analog and digital signals simultaneously across 20 total channels. Its 350 MHz bandwidth, dual-channel architecture - 4 analog and 16 digital channels - and deep acquisition memory enable

engineers to debug complex embedded systems, validate signal integrity, and decode serial protocols in real time.

Technical Specifications

Bandwidth: 350 MHz

Analog Channels: 4 at up to 2 GSa/s sample rate

Digital Channels: 16 at up to 16 GSa/s sample rate

Memory Depth: 8 Mpts standard (MegaZoom III), expandable to 32 Mpts on analog channels

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

Display: 12.1-inch XGA color (1024 × 768), 256 intensity levels

Vertical Resolution: 8 bits

Input Impedance: 1 MΩ ± 1% || 15 pF ± 3 pF (analog); 100 kΩ ± 2% || 3.3 pF ± 1.5 pF (digital)

Maximum Input Voltage: 300 Vrms CAT II (analog); ±15 V (digital)

Key Features

- Hardware-accelerated serial protocol triggering and decoding: I²C, SPI, CAN, LIN, RS-232/UART, USB, I²S, FlexRay, MIL-STD-1553
- Automatic search and navigate functionality for protocol data streams
- Integrated mask testing for design validation
- Segmented memory optimization for data with extended dead times
- FPGA debug capabilities
- MATLAB integration for custom measurements and user-defined filters
- Secure Environment Mode (Option SEC) clears internal non-volatile memory per NISPOM Chapter 8 requirements

Typical Applications

- Embedded system development and troubleshooting
- Mixed-signal protocol analysis and validation
- FPGA debugging and verification
- Signal integrity testing with mask compliance
- Long-duration signal capture with responsive deep memory

Compatibility & Integration

MATLAB software support enables custom analysis routines and instrument automation. Serial protocol support spans industrial, automotive, and aerospace standards.

MSO7034B Characteristics / Specifications

PARAMETER	VALUE
Model	MSO7034B
Series Family	Infiniium 7000B 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 deep memory Infiniium class
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	MSO7034A prior 7000A 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 7000B Series published tables
Bandwidth	350 MHz

MSO7034B Specifications

PARAMETER	VALUE
Applications	Mixed-signal embedded debug, timing analysis, and Infiniium 7000B lab measurements to 350 MHz.
Four analog plus sixteen digital channels	Infiniium 7000B platform refresh
Technical Specifications	Model: MSO7034B

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
Model	MS07034B
Series Family	Infiniium 7000B Series
Instrument Type	Mixed signal oscilloscope
Analog Bandwidth	350 MHz
Analog Channels	4
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Maximum Sample Rate Class	up to 4 GSa/s interleaved class
Memory Architecture	MegaZoom deep memory Infiniium class
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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	MS07034A prior 7000A 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 7000B Series published tables

Notes

From Keysight/Agilent Infiniium 7000B Series oscilloscope documentation model row for MS07034B. Confirm sample-rate/memory splits on the installed configuration label.

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.