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Data Sheet

August 3, 2026

KEYSIGHT

Keysight MSOV334A Mixed Signal Oscilloscope: 33 GHz, 4 Analog Plus 16 Digital Channels

Instrument Type: Mixed Signal Oscilloscope (Infiniium V-Series) Alias: MSOV334A; Keysight MSOV334A; Infiniium V-Series 33 GHz MSO Sample Rate: Up to 80 GSa/s (maximum V-Series rate class for this bandwidth family); interleaved/multi-channel rates per installed hardware (commonly 40 GSa/s when all channels active—confirm faceplate/options) Vertical System: Infiniium V-Series low-noise front end for multi-GHz measurements Alias: MSOV334A; Keysight MSOV334A; Infiniium V-Series 33 GHz MSO Sample Rate: Up to 80 GSa/s (maximum V-Series rate class for this bandwidth family); interleaved/multi-channel rates per installed hardware (commonly 40 GSa/s when all channels active—confirm faceplate/options) Vertical System: Infiniium V-Series low-noise front end for multi-GHz measurements Digital acquisition correlated with analog timebase (Infiniium MSO architecture)

No photo

MODEL

**Keysight
MSOV334A**

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

MSOV334A

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

- Analog bandwidth: 33 GHz
- Channels: 4 analog + 16 digital (MSO)
- Sample rate: up to 80 GSa/s (V-Series high-BW configurations); 40 GSa/s multi-channel modes as applicable
- Memory: up to 2 Gpts (V-Series maximum memory class—confirm installed options)
- Infiniium V-Series platform with advanced analysis applications
- Mixed-signal triggering and digital timing correlated with analog

Applications

- Mixed-signal triggering and digital timing correlated with analog

MSOV334A Characteristics / Specifications

PARAMETER	VALUE
Keysight MSOV334A Mixed Signal Oscilloscope	33 GHz, 4 Analog Plus 16 Digital Channels Overview The Keysight Infiniium MSOV334A isaV-Series mixed-signal oscilloscope with 33 GHz analog bandwidth, 4 analog channels plus 16 digital channels, and high sample rates (up to 80 GSa/s class on V-Series high-bandwidth models, with 40 GSa/s multi-channel modes per Infiniium V-Series documentation). Deep memory (up to 2 Gpts class on V-Series) supports long captures of high-speed serial and wideband RF signals.
Model	MSOV334A
Manufacturer	Keysight Technologies
Instrument Type	Mixed Signal Oscilloscope (Infiniium V-Series)
Alias	MSOV334A; Keysight MSOV334A; Infiniium V-Series 33 GHz MSO Analog
Bandwidth	33 GHz
Analog Channels	4
Sample Rate	Up to 80 GSa/s (maximum V-Series rate class for this bandwidth family); interleaved/multi-channel rates per installed hardware (commonly 40 GSa/s when all channels active—confirm faceplate/options)
Vertical System	Infiniium V-Series low-noise front end for multi-GHz measurements Digital (MSO)
Digital Channels	16 Digital acquisition correlated with analog timebase (Infiniium MSO architecture) Memory
Maximum Memory Depth	Up to 2 Gpts (V-Series class; option-dependent) Platform
Family	Infiniium V-Series
Form Factor	Benchtop Infiniium mainframe with V-Series acquisition hardware Operational Notes Confirm installed bandwidth license/hardware and memory options on the unit. Do not confuse with DSAV/DSOV non-MSO variants or lower-bandwidth V-Series models (e.g., 16/20/25 GHz). Prefer the Keysight Infiniium V-Series datasheet row for MSOV334A for warranted rise time, noise, and memory option tables.
Analog bandwidth	33 GHz
Channels	4 analog + 16 digital (MSO)

PARAMETER

VALUE

Memory

up to 2 Gpts (V-Series maximum memory class—confirm installed options)

MSOV334A Specifications

PARAMETER	VALUE
Key Features	- Analog bandwidth: 33 GHz
Technical Specifications	Model: MSOV334A
Analog	Bandwidth: 33 GHz
Digital (MSO)	Digital Channels: 16

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

Specifications

PARAMETER	VALUE
Model	MSOV334A
Manufacturer	Keysight Technologies
Instrument Type	Mixed Signal Oscilloscope (Infiniium V-Series)
Alias	MSOV334A; Keysight MSOV334A; Infiniium V-Series 33 GHz MSO

Analog

Bandwidth: 33 GHz

Analog Channels: 4

Sample Rate: Up to 80 GSa/s (maximum V-Series rate class for this bandwidth family); interleaved/multi-channel rates per installed hardware (commonly 40 GSa/s when all channels active-confirm faceplate/options)

Vertical System: Infiniium V-Series low-noise front end for multi-GHz measurements

Digital (MSO)

Digital Channels: 16

Digital acquisition correlated with analog timebase (Infiniium MSO architecture)

Memory

Maximum Memory Depth: Up to 2 Gpts (V-Series class; option-dependent)

Platform

Family: Infiniium V-Series

Form Factor: Benchtop Infiniium mainframe with V-Series acquisition hardware

Operational Notes

Confirm installed bandwidth license/hardware and memory options on the unit. Do not confuse with DSAV/DSOV non-MSO variants or lower-bandwidth V-Series models (e.g., 16/20/25 GHz). Prefer the Keysight Infiniium V-Series datasheet row for MSOV334A for warranted rise time, noise, and memory option tables.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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NIST-traceable calibration · SAM registered ·
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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.