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Data Sheet
August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz HMO3034 Mixed Signal Oscilloscope 500 MHz

Rohde & Schwarz HMO3034 Mixed Signal Oscilloscope 300 MHz 4 Channel The R&S HMO3034 is the 300 MHz four-channel mixed-signal oscilloscope in the HMO3000 series (formerly Hameg). Analog bandwidth is 300 MHz (5 mV/div to 5 V/div) or 180 MHz at 1 mV/div and 2 mV/div. Real-time sample rate is 4 GSa/s with 8 MPts memory. Sixteen digital channels are standard MSO capability with the HO3508 logic probe. A 6.5 inch VGA color display, 20 MHz bandwidth limit, 50 ohm/1 MΩ inputs, FFT to 65536 points, and serial-bus options round out the mixed-signal bench. The R&S HMO3034 is the 300 MHz four-channel mixed-signal oscilloscope in the HMO3000 series (formerly Hameg). Analog bandwidth is 300 MHz (5 mV/div to 5 V/div) or 180 MHz at 1 mV/div and 2 mV/div. Real-time sample rate is 4 GSa/s with 8 MPts memory. Sixteen digital channels are standard MSO capability with the HO3508 logic probe. A 6.5 inch VGA color display, 20 MHz bandwidth limit, 50 ohm/1 MΩ inputs, FFT to 65536 points, and serial-bus options round out the mixed-signal bench.

MODEL Rohde & Schwarz HMO3034	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU HMO3034	LISTING https://aumictechlabs.com/products/hmo3034-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz HMO3034 is a benchtop mixed-signal oscilloscope delivering 500 MHz bandwidth for high-speed signal analysis across four analog channels. With optional logic probes, the instrument expands to 16 digital channels, enabling simultaneous capture and analysis of analog and digital signals in complex designs. Real-time sampling reaches 4 GSa/s with memory depth up to 8 Mpts, ensuring high-fidelity waveform capture of transient and repetitive events.Technical Specifications Bandwidth: 500 MHz Analog Channels: 4 Digital Channels: 16 (with optional logic probes HO3508/HO3516) Real-time Sampling Rate: 4 GSa/s Memory Depth: 8 Mpts with optional segmentation up to 1000 segments Display: 6.5" (16.5 cm) VGA color TFT, 640 × 480 pixels Input Impedance: 1 MΩ / 13 pF (analog); 100 kΩ / 4 pF (logic) Vertical Sensitivity: 1 mV/div to 5 V/div Logic Thresholds: TTL, CMOS, ECL, user-defined (−2 V to +8 V)Key Features Integrated MSO functionality with hardware-accelerated serial bus decoding 19 mathematical functions and 28 automated measurement parameters with statistics FFT analysis up to 65,536 points with selectable windowing (Hamming, Hanning, Blackman, Rectangular) Trigger modes: slope, pulse width, video, logic, and hold-off Peak detection, waveform averaging, and datalogging High-resolution mode and adjustable low-pass filtering 6-digit hardware counter and powerful zoom for detailed signal analysis Pass/fail testing and cursor-based measurementsTypical Applications Mixed-signal debugging in embedded systems, digital circuit characterization, protocol analysis on serial buses, power supply ripple measurement, and frequency domain analysis of transient phenomena in electronics development and manufacturing test.Compatibility & Integration Serial bus triggering and decoding are included as standard. Logic channel acquisition requires optional HO3508 or HO3516 probes. Memory segmentation option HOO14 supports high-speed sequential capture scenarios.

Features & description

From manufacturer datasheet

Features

• Bandwidth upgrade path HV354 (300 MHz to 500 MHz, 4-channel) • MSO pods: CH3|POD1 and CH4|POD2 on 4-channel models • Segmented memory option HOO14/HV114, re-arm less than 3 µs • HO730 USB/Ethernet typical; HO720 RS-232/USB; HO740 GPIB • Firmware V6.005 class (series discontinued 2018)

Applications

• Mixed analog/digital debug to 300 MHz • Serial bus trigger/decode (I2C, SPI, UART, CAN, LIN options) • FFT harmonic analysis • Service DVM on all analog channels • Embedded firmware and power-rail work

HMO3034 Characteristics / Specifications

PARAMETER	VALUE
Model	HMO3034
Manufacturer	Rohde & Schwarz
Instrument Type	Mixed signal oscilloscope
Alias	HMO 3034; R&S HMO3034; Hameg HMO3034
Analog Bandwidth 5 mV to 5 V	300 MHz (minus 3 dB)
Analog Bandwidth 1 mV 2 mV	180 MHz
Analog Channels	4
Digital Channels	16 (with logic probe)
Sample Rate	4 GSa/s
Memory Depth	8 MPts
Rise Time	less than 1.166 ns (10 percent to 90 percent, calculated)
DC Gain Accuracy	2 percent of full scale
Input Sensitivity	1 mV/div to 5 V/div (1 MΩ and 50 ohm)
Input Impedance	1 MΩ parallel 13 pF plus/minus 2 pF (50 ohm switchable)
Coupling	DC, AC, GND
Lower AC Bandwidth	2 Hz
Bandwidth Limit	about 20 MHz, switchable
Display	16.5 cm (6.5 inch) VGA color, 640 × 480
Backlight	500 cd/m2 LED
Horizontal Display	12 div without menu (600 pixel); 10 div with menu
Vertical Display	8 div (400 pixel); VirtualScreen 20 div
FFT Points	up to 65536
DVM	three-digit, simultaneous on analog channels
DVM Functions	DC, DCrms, ACrms, crest factor, Vpp, Vp+, VpLogic Probe: HO3508
Bandwidth Upgrade	HV354 to 500 MHz (4-channel)

PARAMETER	VALUE
Sibling HMO30	300 MHz, 2 analog channels
Timebase Class	HMO3000 mixed-signal family
MSO Mode Channels	CH1 to CH4 plus POD1/POD2
Weight Class	about 3.6 kg (2-channel datasheet class; confirm 4-channel unit) Notes Specs from the R&S HMO3000 series brochure/data sheet. Confirm firmware, logic probe, serial-bus licenses, and whether HV354 bandwidth upgrade is installed. This file is the 300 MHz 4-channel HMO3034.
MSO pods	CH3|POD1 and CH4|POD2 on 4-channel models
Bandwidth	is 300 MHz (5 mV/div to 5 V/div) or 180 MHz at 1 mV/div and 2 mV/div. Real-time sample rate is 4 GSa/s with 8 MPts memory. Sixteen digital channels are standard MSO capability with the HO3508 logic probe. A 6.5 inch VGA color display, 20 MHz bandwidt

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

Technical Specifications

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Logic Probe	HO3508
Bandwidth Upgrade	HV354 to 500 MHz (4-channel)

PARAMETER	VALUE
Sibling HMO3032	300 MHz, 2 analog channels
Sibling HMO3044	400 MHz, 4 analog channels
Sibling HMO3054	500 MHz, 4 analog channels
Timebase Class	HMO3000 mixed-signal family
MSO Mode Channels	CH1 to CH4 plus POD1/POD2
Weight Class	about 3.6 kg (2-channel datasheet class; confirm 4-channel unit)

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Specs from the R&S HMO3000 series brochure/data sheet. Confirm firmware, logic probe, serial-bus licenses, and whether HV354 bandwidth upgrade is installed. This file is the 300 MHz 4-channel HMO3034.

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
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