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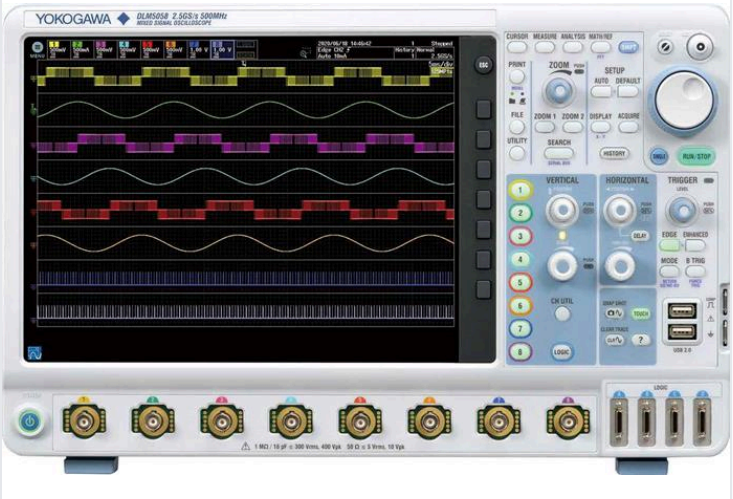
Data Sheet
August 13, 2026

YOKOGAWA

Yokogawa DLM4038 350MHz Mixed Signal Oscilloscope

Yokogawa DLM4038 350 MHz 8-Channel Mixed Signal Oscilloscope The Yokogawa DLM4038 is the 350 MHz, 8-analog-channel mixed-signal oscilloscope in the DLM4000 family. Channel 8 can be swapped for 8-bit Flex MSO logic (optional /L16 adds two more 8-bit ports for up to 24-bit logic). It captures long records at up to 2.5 GS/s on a 12.1-inch XGA display for embedded, automotive, and power-electronics debug. Eight-channel analog ECU and mechatronics timing; 7 analog + 8-bit (or 24-bit with /L16) mixed-signal debug; optional UART/I2C/SPI, CAN/CAN FD/LIN, FlexRay, SENT, CXPI, and PSI5 trigger/decode; optional /G3 power analysis (switching loss, SOA, harmonics); long-record intermittent-fault capture with history memory. The Yokogawa DLM4038 is the 350 MHz, 8-analog-channel mixed-signal oscilloscope in the DLM4000 family. Channel 8 can be swapped for 8-bit Flex MSO logic (optional /L16 adds two more 8-bit ports for up to 24-bit logic). It captures long records at up to 2.5 GS/s on a 12.1-inch XGA display for embedded, automotive, and power-electronics debug. Eight-channel analog ECU and mechatronics timing; 7 analog + 8-bit (or 24-bit with /L16) mixed-signal debug; optional UART/I2C/SPI, CAN/CAN FD/LIN, FlexRay, SENT, CXPI, and PSI5 trigger/decode; optional /G3 power analysis (switching loss, SOA, harmonics); long-record intermittent-fault capture with history memory.



MODEL **Yokogawa DLM4038**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **DLM4038**	LISTING **https://aumictechlabs.com/products/dlm4038-2/**

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NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM4038 is a mixed-signal oscilloscope that captures and analyzes analog and digital signals simultaneously across 8 analog channels with 350 MHz bandwidth. Its flexible architecture supports standard 8-bit logic analysis on channel 8, with optional expansion to 24-bit logic analyzer capability. The instrument delivers 2.5 GSa/s maximum sampling rate, up to 250 Mega Points record length, and 12-bit vertical resolution.A 12.1-inch XGA display presents acquired waveforms with intuitive controls optimized for embedded systems, power electronics, mechatronics, and automotive applications.Technical Specifications Analog Channels 8 channels at 350 MHz bandwidth 12-bit vertical resolution Vertical range: 2 mV/div to 10 V/div (1-2-5 steps) Input coupling: DC, AC, DC50, GND Input impedance: 1 MΩ ±1.0% (~20 pF) or 50 Ω DC accuracy: ±(1.5% of 8 div + offset voltage accuracy) Rise time: 700 ps Channel-to-channel deskew: ±100 ns Digital Channels Standard: 8-bit logic analyzer on channel 8 Optional: Up to 24-bit logic analysis with additional 16 inputs Sampling & Memory Maximum sample rate: 2.5 GSa/s per channel Maximum record length: 250 Mega Points Single-mode memory depth: 6.25 MPt/CH Continuous acquisition memory: 1.25 MPt/CH Time Base Range: 1 ns/div to 500 s/div Accuracy: ±0.002% Triggering Sources: CH1–CH8 Serial-bus protocols: UART, I2C, SPI, CAN, LIN, FlexRay, CXPI, CAN FD, SENT, PSI5 Display 12.1-inch TFT color LCD, 1024 × 768 XGA resolutionKey Features Math functions: A+B, A-B, A×B, A/B, FFT, user-defined operations Waveform modes: Normal, Envelope, Average Power analysis and digital filtering Waveform history playback with pause, fast-forward, rewind Searchable acquisition records up to 250 MPoints Ethernet (1000BASE-T/100BASE-TX/10BASE-T) with FTP, HTTP, VXI-11 USB 2.0 connectivity AUX and RGB outputsTypical Applications Embedded systems development Power electronics testing Mechatronics analysis Automotive electronics validationCompatibility & Integration LAN connectivity supports FTP, HTTP, and VXI-11 server modes with FTP, SNTP, SNIP, LPR, DHCP, and DNS client services. USB 2.0 enables peripheral connection and host communication. Supply: 100–240 VAC.

Features & description

From manufacturer datasheet

Features

• Eight analog inputs; CH8 mutually exclusive with logic Port L • Flexible MSO: 8-bit logic standard on Port L; /L16 adds PortsAand B (24-bit total) • Two independent zoom windows; history search and replay of stored acquisitions • Optional user-defined math (/G2 or /G4) and power-supply analysis (/G3 or /G4) • USB, Ethernet (1000BASE-T class), and GP-IB remote control; optional /B5 printer • Memory options /M1, /M2, /M3 expand single-shot interleaved records to 250 M points

DLM4038 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM4038
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM4000
Analog Channels	8 analog, or 7 analog plus 8 bit logic
Bandwidth	350 MHz (1 MOhm 100 mV/div to 10 V/div; 50 Ohm 10 mV/div to 500 mV/div)
Bandwidth At 20 To 50 mV	300 MHz (1 MOhm)
Bandwidth At 2 To 5 mV	300 MHz (50 Ohm)
Max Sample Rate Interleave On	2.5 GS/s
Max Sample Rate Interleave Off	1.25 GS/s
Max Sample Rate Repetitive	125 GS/s
A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs Standard	8 bit Port L (exclusive with CH8)
Logic Inputs Optional	16 bit additional (/L16 PortsAand B; 24 bit total with Port L)
Logic Toggle Frequency	100 MHz (701988) or 250 MHz (701989 probe)
Vertical Sensitivity 1 MOhm	2 mV/div to 10 V/div (1-2-5)
Vertical Sensitivity 50 Ohm	2 mV/div to 500 mV/div (1-2-5)
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm; GND
Input Impedance	1 MOhm +/-1.0%, approx. 20 pF; 50 Ohm +/-1.0%
Max Input Voltage 1 MOhm	150 Vrms
Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div (1-2-5)
Timebase Accuracy	+/-0.002%
Record Length Standard Repeat	1.25 M points
Record Length Standard Single	6.25 M points (12.5 M interleaved)

PARAMETER	VALUE
Record Length Option Max	250 M points (/M3 single interleaved)
Bandwidth Limit Filters	FULL, 200 MHz, 100 MHz, 20 MHz down to 8 kHz (per channel)
Display	12.1-inch TFT color LCD, 1024 × 768 (XGA)
Ch to Ch Isolation	-34 dB typical at maximum bandwidth
Residual Noise	0.4 mV rms or 0.05 div rms typical (whichever larger)
Ch to Ch Deskew	+/-100 ns
History Memory Standard	up to 2500 waveforms (1.25 k point records)
History Memory Option Max	up to 50000 waveforms (/M3)
Mass	approx. 6.6 kg (no options)
Dimensions	426 W x 266 H x 178 D mm (printer cover closed)
Power Supply	100 to 240 VAC, 50/60 Hz, max 250 VA with printer
Operating Temperature	5 to 40 degCAlias: DLM4038 Notes Specs from Yokogawa DLM4000 datasheet (DLM4038). This is the 350 MHz 8-channel model, not the 500 MHz DLM4058. Memory lengths depend on /M1, /M2, or /M3 and interleave; logic probes 701988/701989 are ordered separately. Confirm installed options on the unit.
Flexible MSO	8-bit logic standard on Port L; /L16 adds PortsAand B (24-bit total)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	5 to 40 degCAlias: DLM4038
Operating Temperature	5 to 40 degCAlias: DLM4038

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

PARAMETER	VALUE
Model	DLM4038
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM4000
Analog Channels	8 analog, or 7 analog plus 8 bit logic
Bandwidth	350 MHz (1 MOhm 100 mV/div to 10 V/div; 50 Ohm 10 mV/div to 500 mV/div)
Bandwidth At 20 To 50 mV	300 MHz (1 MOhm)
Bandwidth At 2 To 5 mV	300 MHz (50 Ohm)
Max Sample Rate Interleave On	2.5 GS/s
Max Sample Rate Interleave Off	1.25 GS/s
Max Sample Rate Repetitive	125 GS/s
A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
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Logic Toggle Frequency	100 MHz (701988) or 250 MHz (701989 probe)
Vertical Sensitivity 1 MOhm	2 mV/div to 10 V/div (1-2-5)
Vertical Sensitivity 50 Ohm	2 mV/div to 500 mV/div (1-2-5)
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm; GND
Input Impedance	1 MOhm +/-1.0%, approx. 20 pF; 50 Ohm +/-1.0%
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Timebase Range	1 ns/div to 500 s/div (1-2-5)
Timebase Accuracy	+/-0.002%
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Vertical Sensitivity 50 Ohm	2 mV/div to 500 mV/div (1-2-5)
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Input Impedance	1 MOhm +/-1.0%, approx. 20 pF; 50 Ohm +/-1.0%
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Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div (1-2-5)
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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

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