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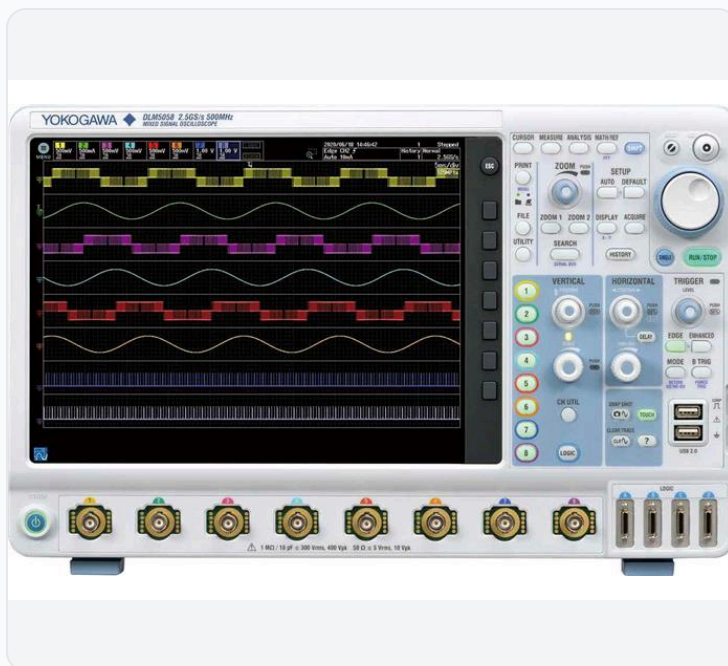
Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM4058 500MHz Mixed Signal Oscilloscope

The Yokogawa DLM4058 is a 500 MHz DLM4000 mixed-signal oscilloscope with 8 analog or 7 analog + 8 bit logic for embedded, power electronics, and mechatronics debug. It combines long-memory analog capture at up to 2.5 GS/s with optional logic analysis, serial-bus decode options, and power-analysis packages. Mixed analog and digital embedded system validation; power electronics switching and timing debug; serial bus trigger and decode with optional /Fxx packages; long-record intermittent fault capture; automotive and industrial control troubleshooting. Bandwidth Limit Filters: FULL plus 200 MHz down to 8 kHz (14 settings per channel) Residual Noise: 0.4 mV rms or 0.05 div rms typical History Memory: up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000) Specs from Yokogawa DLM4000 datasheet (DLM4058). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit. Optional /L16 adds 16 logic bits (24-bit logic total).



MODEL

**Yokogawa
DLM4058**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM4058

LISTING

<https://aumictechlabs.com/products/dlm4058-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa DLM4058 is a mixed-signal oscilloscope designed for embedded systems, power electronics, mechatronics, and automotive testing. It delivers 500 MHz bandwidth across 8 analog channels with a maximum sample rate of 2.5 GS/s and record lengths up to 125 Mega Points. The eighth channel provides Flex MSO capability, functioning as an 8-bit logic analyzer with optional expansion to 24 bits via external logic inputs. A 12.1-inch XGA TFT display (1024 × 768) enables detailed signal visualization with an ergonomic landscape interface.

Technical Specifications

Bandwidth: 500 MHz Analog Channels: 8 Maximum Sample Rate: 2.5 GS/s Record Length: Up to 125 Mega Points (selectable: 12.5 Mpts, 62.5 Mpts, 125 Mpts) Display: 12.1-inch TFT color LCD, XGA resolution (1024 × 768) Input Impedance: 1 M Ω $\pm$ 1.0% (~20 pF) or 50 Ω $\pm$ 1.0% (VSWR $\leq$ 1.4, DC–500 MHz) Voltage Sensitivity (1 M Ω): 2 mV/div to 10 V/div (1-2-5 steps) Voltage Sensitivity (50 Ω): 2 mV/div to 500 mV/div (1-2-5 steps) Maximum Input Voltage: 150 Vrms (1 M Ω) or 5 Vrms/10 Vpeak (50 Ω) Input Coupling: AC, DC, DC50 Ω , GND

Key Features

Flex MSO capability on channel 8 enables 8-bit logic analysis Optional /L16 module expands logic analysis to 24 bits total Serial bus analysis: UART, I2C, SPI, CAN, LIN, FlexRay, CXPI, SENT, PSI5 Power analysis and digital filtering User-defined math functions (up to 4 channels) Cycle and history statistics Memory expansion options: 6.25 Mpts (/M1), 12.5 Mpts (/M2), 25 Mpts (/M3)

Typical Applications

Embedded system debugging and validation Power electronics characterization Mechatronic system analysis Automotive electrical and electronic testing

Compatibility & Integration

GP-IB interface (/C1 option) Internal storage: 7.2 GB (/C8 option) Built-in printer (/B5 option) Logic analyzer expansion via /L16 option

Features & description

From manufacturer datasheet

Features

- 500 MHz analog bandwidth, 8 channel configuration

DLM4058 Characteristics / Specifications

PARAMETER	VALUE
Model	DLM4058
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Series	DLM4000
Analog Channels	8 analog or 7 analog + 8 bit logic
Bandwidth	500 MHz
Max Sample Rate Real Time	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	8 bit Flex MSO on CH8 (/L16 optional +16 bit)
Vertical Sensitivity 1 MOhm	500 uV/div to 10 V/div (200 MHz models); scales with bandwidth
Vertical Sensitivity 50 Ohm	500 uV/div to 1 V/div
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm
Input Impedance	1 MOhm +/-1.0%; 50 Ohm +/-1.0%
Max Input Voltage 1 MOhm	300 Vrms or 400 Vpeak
Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div
Timebase Accuracy	+/-2.5 ppm (shipping); +/-1.0 ppm/year ageing
Record Length Standard Repeat	6.25 M
Record Length Standard Single	25 M points
Record Length Option Max	250 M points (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	12.1-inch XGA LCD
Ch to Ch Isolation	-34 dB typical

PARAMETER	VALUE
Residual Noise	0.4 mV rms or 0.05 div rms typical
Logic Max Sample Rate	625 MS/s
History Memory	up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)
Alias	DLM4058 Notes Specs from Yokogawa DLM4000 datasheet (DLM4058). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit. Optional /L16 adds 16 logic bits (24-bit logic total).
Optional serial buses	UART/I2C/SPI, CAN/CAN FD/LIN, FlexRay, SENT, CXPI, PSI5

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	DLM4058
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Specifications	
PARAMETER	VALUE
Series	DLM4000
Analog Channels	8 analog or 7 analog + 8 bit logic
Bandwidth	500 MHz
Specifications	
PARAMETER	VALUE
Max Sample Rate Real Time	2.5 GS/s
Max Sample Rate Interleave Off	1.25 GS/s
Max Sample Rate Repetitive	125 GS/s
Specifications	
PARAMETER	VALUE
A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs	8 bit Flex MSO on CH8 (/L16 optional +16 bit)
Vertical Sensitivity 1 MOhm	500 uV/div to 10 V/div (200 MHz models); scales with bandwidth
Specifications	
PARAMETER	VALUE
Vertical Sensitivity 50 Ohm	500 uV/div to 1 V/div
Input Coupling	AC 1 MOhm; DC 1 MOhm; DC 50 Ohm
Input Impedance	1 MOhm +/-1.0%; 50 Ohm +/-1.0%

Specifications

PARAMETER	VALUE
Max Input Voltage 1 MOhm	300 Vrms or 400 Vpeak
Max Input Voltage 50 Ohm	5 Vrms or 10 Vpeak
Timebase Range	1 ns/div to 500 s/div

Specifications

PARAMETER	VALUE
Timebase Accuracy	+/-2.5 ppm (shipping); +/-1.0 ppm/year ageing
Record Length Standard Repeat	6.25 M
Record Length Standard Single	25 M points

Specifications

PARAMETER	VALUE
Record Length Option Max	250 M points (/M3)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings per channel)
Display	12.1-inch XGA LCD

Specifications

PARAMETER	VALUE
Ch to Ch Isolation	-34 dB typical
Residual Noise	0.4 mV rms or 0.05 div rms typical
Logic Max Sample Rate	625 MS/s

History Memory: up to 20,000 waveforms standard (/M2 or /M2S up to 100,000 on DLM5000)

Alias: DLM4058

Notes

Specs from Yokogawa DLM4000 datasheet (DLM4058). Memory lengths depend on /M1, /M2, or /M3 options and channel/interleave mode; confirm installed options on the unit. Optional /L16 adds 16 logic bits (24-bit logic total).

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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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.