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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa DLM5034 Mixed Signal Oscilloscope: 4-Channel, 350 MHz

Yokogawa DLM5034 Mixed Signal Oscilloscope: 4-Channel, 350 MHz The Yokogawa DLM5034 is a 4-channel, 350 MHz DLM5000 Series mixed-signal oscilloscope with standard 16-bit logic input (optional 32-bit /L32). It combines long-memory analog capture at up to 2.5 GS/s with logic analysis, history memory, a 12.1-inch capacitive touch display, and optional serial-bus and power-analysis packages for embedded and power electronics debug. The Yokogawa DLM5034 is a 4-channel, 350 MHz DLM5000 Series mixed-signal oscilloscope with standard 16-bit logic input (optional 32-bit /L32). It combines long-memory analog capture at up to 2.5 GS/s with logic analysis, history memory, a 12.1-inch capacitive touch display, and optional serial-bus and power-analysis packages for embedded and power electronics debug.

 Yokogawa DLM5034 Mixed Signal Oscilloscope: 4-Channel, 350 MHz

MODEL

**Yokogawa
DLM5034**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DLM5034

LISTING

<https://aumictechlabs.com/products/dlm5034-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa DLM5034 is a 4-channel mixed-signal oscilloscope that merges digital oscilloscope and logic analyzer capabilities into a single instrument. It simultaneously captures analog signals across 4 channels and digital logic states across 16 or 32 bits, enabling comprehensive debugging of complex electronic systems. With 350 MHz bandwidth, 2.5 GS/s

sample rate, and up to 1 Gpoint optional memory, the DLM5034 delivers extended capture windows and precise signal characterization. The instrument features 12-bit vertical resolution (16-bit in High Resolution Mode), 14 configurable low-pass filters per channel, and vertical sensitivity down to 500 $\mu\text{V}/\text{div}$ on 1 M Ω inputs. Vertical axis resolution reaches 12-bit maximum standard configuration, expandable to 16-bit in specialized modes.

Technical Specifications
Bandwidth: 350 MHz
Analog Channels: 4
Logic Channels: 16 bits (standard) or 32 bits (optional)
Sample Rate: 2.5 GS/s maximum
A/D Resolution: 8-bit
Vertical Resolution: 12-bit standard, 16-bit in High Resolution Mode
Vertical Sensitivity: 500 $\mu\text{V}/\text{div}$ to 10 V/div (1 M Ω); 500 $\mu\text{V}/\text{div}$ to 1 V/div (50 Ω)
Input Coupling: AC 1 M Ω , DC 1 M Ω , DC 50 Ω
Input Impedance: 1 M Ω $\pm$ 1.0%, 50 Ω $\pm$ 1.0%
Maximum Input Voltage: 300 Vrms or 400 Vpeak (1 M Ω); 5 Vrms or 10 Vpeak (50 Ω)
Timebase: 1 ns/div to 500 s/div
Low-Pass Filters: 14 per channel, 8 kHz to 200 MHz cutoff
Waveform Memory: 50 Mpoints standard; up to 500 Mpoints or 1 Gpoint optional
History Memory: 100,000 waveforms

Key Features
Edge, pulse width, timeout, pattern, runt, rise/fall time, interval, and window triggering
Optional serial protocol triggers: UART, I2C, SPI, CAN, CAN FD, LIN, FlexRay, SENT, CXPI, PSi5
29 automated waveform parameter measurements with simultaneous 30-measurement capability
Simultaneous 4-bus serial analysis at different speeds with dedicated logic decoding
Auto setup function for signal analysis and bus parameter optimization
Math channels and optional user-defined math functions
Extended search across long memory captures

Typical Applications
Power semiconductor circuit debugging and characterization
Electric vehicle motor control verification
Mechatronics system development and validation
Embedded systems protocol analysis
High-speed digital and analog signal simultaneous observation

Compatibility & Integration
Optional power supply analysis module available. Logic inputs support decoding of I2C, SPI, UART, and SENT protocols.

Features & description

From manufacturer datasheet

Features

• 4 analog channels, 350 MHz bandwidth • Max real-time sample rate 2.5 GS/s • Standard 16-bit logic; /L32 expands to 32 bits • 12.1-inch XGA capacitive touch TFT • History memory up to 100,000 waveforms (with memory options) • Optional serial buses: UART/I2C/SPI, CAN/CAN FD/LIN, FlexRay, SENT, CXPI, PSI5 • Optional power analysis (/G03) and user-defined math (/G02)

Applications

• Mixed analog / digital embedded system validation • Power electronics and mechatronics timing debug • Serial bus trigger/analysis with optional /Fxx packages • Long-record intermittent fault capture with history memory

DLM5034 Characteristics / Specifications

PARAMETER	VALUE
Yokogawa DLM5034 Mixed Signal Oscilloscope	4-Channel, 350 MHz Overview The Yokogawa DLM5034 is a 4-channel, 350 MHz DLM5000 Series mixed-signal oscilloscope with standard 16-bit logic input (optional 32-bit /L32). It combines long-memory analog capture at up to 2.5 GS/s with logic analysis, history memory, a 12.1-inch capacitive touch display, and optional serial-bus and power-analysis packages for embedded and power electronics debug.
Model	DLM5034
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Analog Channels	4
Bandwidth	350 MHz
Max Sample Rate Real Time	2.5 GS/s
Max Sample Rate Repetitive	250 GS/s
A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs Standard	16 bit
Logic Inputs Optional	32 bit (/L32)
Logic Max Sample Rate	1.25 GS/s
Vertical Sensitivity 1 MOhm	500 μ V/div to 10 V/div
Vertical Sensitivity 50 Ohm	500 μ V/div to 1 V/div
Input Coupling	AC 1 M Ω ; DC 1 M Ω ; DC 50 Ω
Input Impedance	1 M Ω $\pm$ 1.0% (~16 pF); 50 Ω $\pm$ 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	$\pm$ 2.5 ppm (shipping/calibration); $\pm$ 1.0 ppm/year ageing
Record Length Standard Repeat/Single	12.5 M / 50 M (125 M odd-ch)
Record Length /M2S Single	up to 250 M (500 M odd-ch)

PARAMETER	VALUE
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings/channel)
Display	12.1-inch TFT capacitive touch, 1024 × 768 (XGA)
History Memory Standard	up to 20,000 waveforms
History Memory /M2 or /M2S	up to 100,000 waveforms
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	
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Model	DLM5034
Manufacturer	Yokogawa
Instrument Type	Mixed Signal Oscilloscope
Analog Channels	4
Bandwidth	350 MHz
Max Sample Rate Real Time	2.5 GS/s
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A/D Resolution	8 bit (25 LSB/div); max 12 bit High Resolution mode
Logic Inputs Standard	16 bit
Logic Inputs Optional	32 bit (/L32)
Logic Max Sample Rate	1.25 GS/s
Vertical Sensitivity 1 MOhm	500 µV/div to 10 V/div
Vertical Sensitivity 50 Ohm	500 µV/div to 1 V/div
Input Coupling	AC 1 MΩ; DC 1 MΩ; DC 50 Ω
Input Impedance	1 MΩ ±1.0% (~16 pF); 50 Ω ±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/calibration); ±1.0 ppm/year ageing
Record Length Standard Repeat/Single	12.5 M / 50 M (125 M odd-ch)
Record Length /M2S Single	up to 250 M (500 M odd-ch)
Bandwidth Limit Filters	FULL plus 200 MHz down to 8 kHz (14 settings/channel)
Display	12.1-inch TFT capacitive touch, 1024 × 768 (XGA)
History Memory Standard	up to 20,000 waveforms
History Memory /M2 or /M2S	up to 100,000 waveforms

Ch-to-Ch Deskew: $\pm 1 \mu\text{s}$

Dead Time N-Single: approx. $0.9 \mu\text{s}$

Notes

Specs from Yokogawa DLM5000 / DLM5034 datasheet. Memory lengths depend on /M1S or /M2S options and channel mode; confirm installed options on the unit.

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.