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Data Sheet

August 2, 2026

LECROY

LeCroy MS-500 Mixed Signal Oscilloscope 500MHz, 18 Channels, 2GS/s, 50Mpts/ch

LeCroy MS-500 Mixed Signal Oscilloscope 500MHz, 18 Channels, 2GS/s, 50Mpts/ch The Teledyne LeCroy MS-500 (MS500) is an external Mixed Signal Oscilloscope Option that adds high-performance digital acquisition and triggering to compatible Teledyne LeCroy oscilloscopes—it is not a standalone oscilloscope. Standard configuration provides 18 digital channels; upgrade to 36 channels is available with an additional lead set (MSO-DLS-36). Catalog performance includes 500 MHz maximum input frequency, 2 GS/s sample rate, and 50 Mpts/ch acquisition memory. Compatible host oscilloscopes include WaveRunner MXi and WaveSurfer MXs class instruments. Connection is via a dedicated bus and USB 2.0 cable for timebase synchronization and cross-triggering. The Teledyne LeCroy MS-500 (MS500) is an external Mixed Signal Oscilloscope Option that adds high-performance digital acquisition and triggering to compatible Teledyne LeCroy oscilloscopes—it is not a standalone oscilloscope. Standard configuration provides 18 digital channels; upgrade to 36 channels is available with an additional lead set (MSO-DLS-36). Catalog performance includes 500 MHz maximum input frequency, 2 GS/s sample rate, and 50 Mpts/ch acquisition memory. Compatible host oscilloscopes include WaveRunner MXi and WaveSurfer MXs class instruments. Connection is via a dedicated bus and USB 2.0 cable for timebase synchronization and cross-triggering.

No photo

MODEL

LeCroy 500

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

500

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

- External MSO option for compatible Teledyne LeCroy scopes
- 18 digital channels standard (36 with MSO-DLS-36 upgrade)
- 500 MHz maximum input frequency
- 2 GS/s digital sample rate
- 50 Mpts/ch acquisition memory
- Edge, width, pattern, glitch, interval, dropout triggers
- Threshold families: TTL, ECL, CMOS, PECL, LVDS, user-defined
- Timing analysis mode (no external clock required)
- USB 2.0 and dedicated bus cable to host scope

500 Characteristics / Specifications

PARAMETER	VALUE
Model	MS-500 (MS500)
Manufacturer	Teledyne LeCroy (LeCroy)
Instrument Type	Mixed Signal Oscilloscope Option (external accessory)
Max Input Frequency	500 MHz
Sample Rate	2 GS/s
Acquisition Memory	50 Mpts/ch
Digital Channels	18 (standard); 36 (with MSO-DLS-36 lead set)
Host Compatibility	WaveRunner MXi; WaveSurfer MXs (and related compatible models)
Connection	dedicated bus cable with USB 2.0 to host oscilloscope
Trigger Types	edge, width, pattern, glitch, interval, dropout
Threshold Levels	TTL, ECL, CMOS (2.5 V, 3.3 V, 5 V), PECL, LVDS, user-defined
Related Models	MS-500-36 (36-ch factory config); MS-250 (250 MHz family) Standard Operating Conditions Operate only with a compatible Teledyne LeCroy oscilloscope and supplied cabling. Configure logic thresholds per the digital I/O family under test. Terminate and ground digital leads per operator manual guidance.
Threshold families	TTL, ECL, CMOS, PECL, LVDS, user-defined
Bandwidth	come from the attached oscilloscope. MS-500-36 can run in 18- or 36-channel mode for higher performance at 18 channels. Confirm host scope model compatibility before purchase. Optional serial data trigger packages (I ² C, SPI, UART, etc.) may be availa

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.

performance digital acquisition and triggering to compatible Teledyne LeCroy oscilloscopes—it is not a standalone oscilloscope. Standard configuration provides 18 digital channels; upgrade to 36 channels is available with an additional lead set (MSO-DLS-36). Catalog performance includes 500 MHz maximum input frequency, 2 GS/s sample rate, and 50 Mpts/ch acquisition memory. Compatible host oscilloscopes include WaveRunner MXi and WaveSurfer MXs class instruments. Connection is via a dedicated bus and USB 2.0 cable for timebase synchronization and cross-triggering.

Applications

Embedded controller debug with simultaneous analog and digital signals; microcontroller/DSP/FPGA/ADC/DAC testing; digital bus triggering alongside analog scope channels; long-capture digital timing analysis on compatible LeCroy scopes.

Key Features

- External MSO option for compatible Teledyne LeCroy scopes
- 18 digital channels standard (36 with MSO-DLS-36 upgrade)
- 500 MHz maximum input frequency
- 2 GS/s digital sample rate
- 50 Mpts/ch acquisition memory
- Edge, width, pattern, glitch, interval, dropout triggers
- Threshold families: TTL, ECL, CMOS, PECL, LVDS, user-defined
- Timing analysis mode (no external clock required)
- USB 2.0 and dedicated bus cable to host scope

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	MS-500 (MS500)
Manufacturer	Teledyne LeCroy (LeCroy)
Instrument Type	Mixed Signal Oscilloscope Option (external accessory)
Max Input Frequency	500 MHz
Sample Rate	2 GS/s
Acquisition Memory	50 Mpts/ch
Digital Channels	18 (standard); 36 (with MSO-DLS-36 lead set)
Host Compatibility	WaveRunner MXi; WaveSurfer MXs (and related compatible models)
Connection	dedicated bus cable with USB 2.0 to host oscilloscope
Trigger Types	edge, width, pattern, glitch, interval, dropout
Threshold Levels	TTL, ECL, CMOS (2.5 V, 3.3 V, 5 V), PECL, LVDS, user-defined
Related Models	MS-500-36 (36-ch factory config); MS-250 (250 MHz family)

Standard Operating Conditions

Operate only with a compatible Teledyne LeCroy oscilloscope and supplied cabling. Configure logic thresholds per the digital I/O family under test. Terminate and ground digital leads per operator manual guidance.

Operational Notes

MS-500 is an option module, not a complete scope—host analog channels and bandwidth come from the attached

oscilloscope. MS-500-36 can run in 18- or 36-channel mode for higher performance at 18 channels. Confirm host scope model compatibility before purchase. Optional serial data trigger packages (I²C, SPI, UART, etc.) may be available per OEM documentation.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.