

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 12, 2026

LECROY

LeCroy LOGICSTUDIO 16 Channel USB Logic Analyzer, 500 Ms/s, 100 Mhz

The LeCroy LOGICSTUDIO is a 16-channel USB logic analyzer with a 500 MS/s sampling rate and 100 MHz bandwidth. It is a compact and portable instrument for capturing and analyzing digital signals. Ideal for debugging embedded systems, verifying digital designs, and performing general-purpose logic analysis.



MODEL

**Lecroy
LOGICSTUDIO**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

LOGICSTUDIO

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The LeCroy LOGICSTUDIO 16 is a USB-powered logic analyzer that captures and decodes digital signals across 16 channels, transforming a PC into a portable debugging platform. Operating at 500 MS/s across all 16 channels or 1 GS/s on 8 channels, it delivers the timing resolution and memory depth required for embedded systems validation, digital design verification, and protocol analysis.

Technical Specifications

Acquisition Performance

16 input channels with 500 MS/s sampling rate (all channels) or 1 GS/s interleaved mode (8 channels)

100 MHz bandwidth with 3.75 ns minimum detectable pulse width

20 kpts memory depth on 16 channels; 40 kpts on 8 channels

Channel-to-channel skew: 1 ns typical

Continuous acquisition mode at 1 kHz sample rate

Triggering & Protocol Analysis

Advanced trigger blocks (A and B) supporting logic combinations:

AND, OR, and THEN operations Match criteria include rising/falling edge, any edge, level qualification, and pulse width measurement Trigger resolution at 500 MS/s for edge, pattern, pulse width, and pattern width triggers Built-in protocol decoders for UART, I2C, and SPI with decoder-based triggering Signal Conditioning Input impedance: $150\text{ k}\Omega \parallel 12\text{ pF}$ Threshold selections: TTL, CMOS (1.8 V, 2.5 V, 3.3 V, 5 V), and user-defined 0 V to 7 V Threshold accuracy: $\pm 150\text{ mV} + 5\%$ of threshold Maximum survivable input voltage: $\pm 40\text{ VDC}$; maximum dynamic range 40 Vp-p; minimum voltage swing 500 mVp-p Key Features Compact form factor: 81.3 mm $\times$ 124.5 mm $\times$ 28.0 mm USB 2.0 bus-powered operation with Cypress CY7C68013A interface Xilinx Spartan-6 XC6SLX16 FPGA for real-time signal processing 16-channel digital leadset with micro hooks included BNC output for oscilloscope integration Typical Applications Embedded systems debugging, SPI/I2C bus validation, UART serial communication analysis, digital circuit design verification, and multi-protocol signal capture. Compatibility & Integration Windows operating system support. Compatible with ten popular oscilloscope series from LeCroy, Tektronix, and Agilent covering 40 MHz to 1 GHz bandwidths via BNC interconnect.

Features & description

From manufacturer datasheet

Technical Specifications

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Key Features

Compact form factor: 81.3 mm × 124.5 mm × 28.0 mm USB 2.0 bus-powered operation with Cypress CY7C68013A interface Xilinx Spartan-6 XC6SLX16 FPGA for real-time signal processing 16-channel digital leadset with micro hooks included BNC output for oscilloscope integration Typical Applications Embedded systems debugging, SPI/I2C bus validation, UART serial communication analysis, digital circuit design verification, and multi-protocol signal capture. Compatibility & Integration Windows operating system support. Compatible with ten popular oscilloscope series from LeCroy, Tektronix, and Agilent covering 40 MHz to 1 GHz bandwidths via BNC interconnect.

Lecroy LOGICSTUDIO — Repair & Calibration Service

Aumictech offers NIST-traceable calibration and repair for the Lecroy LOGICSTUDIO. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. Standard Cal Pass/fail cert + NIST sticker Cal with Data Full NIST cert with measured values [Request Calibration](#) → [Request Repair Quote](#) →

Lecroy LOGICSTUDIO price

This Lecroy LOGICSTUDIO is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units.

Lecroy LOGICSTUDIO calibration cost

NIST-traceable calibration for the Lecroy LOGICSTUDIO is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented,

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Unit notes

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LOGICSTUDIO Specifications

PARAMETER	VALUE
Frequency Range	DC to 100 MHz Voltage / Current Range: ±40 VDC maximum survivable input

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.

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Typical Applications Embedded systems debugging, SPI/I2C bus validation, UART serial communication analysis, digital circuit design verification, and multi-protocol signal capture.

Compatibility & Integration Windows operating system support. Compatible with ten popular oscilloscope series from LeCroy, Tektronix, and Agilent covering 40 MHz to 1 GHz bandwidths via BNC interconnect.

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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

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.