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Data Sheet

August 12, 2026

LECROY

LeCroy SDA 5000A 20GSa/s 5GHz Serial Data Analyser WITH OPTION L

Instrument Type: Serial Data Analyzer / Oscilloscope Alias: SDA5000A; SDA 5000A; LeCroy SDA 5000A Sample rate: 20 GSa/s (≤ 2 ch); 10 GSa/s (4 ch) Specs from LeCroy SDA Operator's Manual (SDA 5000/5000A column) and product listings. Confirm Option L, installed memory options, and serial-trigger license on the unit. Alias: SDA5000A; SDA 5000A; LeCroy SDA 5000A Sample rate: 20 GSa/s (≤ 2 ch); 10 GSa/s (4 ch) Specs from LeCroy SDA Operator's Manual (SDA 5000/5000A column) and product listings. Confirm Option L, installed memory options, and serial-trigger license on the unit.



MODEL

LeCroy SDA 5000A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SDA 5000A

LISTING

<https://aumictechlabs.com/products/sda-5000a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The LeCroy SDA 5000A is a serial data analyzer delivering 5 GHz analog bandwidth and 20 GSa/s sampling rate for precision capture and detailed analysis of complex high-speed serial communication streams. Option L expands analytical capabilities for advanced debugging and validation in laboratory and enterprise environments. Technical Specifications Analog Bandwidth: 5 GHz Sampling Rate: 20 GSa/s (single or dual channel); 10 GSa/s (4-channel operation) Memory Depth: 100 Mpts/channel (1-2 channels); 50 Mpts/channel (4 channels) Rise Time: 90 ps (10-90%

typical) Jitter Measurement Accuracy: 1 ps RMS Channel Count: 4 channels Clock Recovery: Software-based PLL supporting data rates to 3.5 Gb/s with adjustable single-pole bandwidth cutoff Serial Trigger: NRZ-encoded data (edge density > 20%) up to 2.7 GHz with 32-bit pattern length; 1 division minimum sensitivity (≥ 10 mV); 50 MHz minimum frequency Power Consumption: ≤ 800 watts AC Power Input: 100–240 Vrms ($\pm 10\%$) at 50/60 Hz; 90–132 VAC and 180–264 VAC at 45–440 Hz

Key Features SMART Triggers®: Glitch detection (600 ps to 20 s), pulse width measurement, interval triggering (2 ns to 20 s), dropout detection, and state/edge-qualified triggering with event or time-based delays Pattern Logic: Combinatorial triggering (AND, NAND, OR, NOR) across 5 inputs (4 channels plus external trigger) Connectivity: 10/100Base-T Ethernet, parallel, SVGA video output, USB Probe Interfaces: 4× ProLink SMA adapters and 2× ProLink BNC adapters included

Typical Applications Advanced serial protocol validation, high-speed signal integrity analysis, jitter characterization, and complex trigger-based capture workflows in development and production test environments.

Compatibility & Integration Standard laboratory interfaces support remote control and data export via Ethernet and USB. External trigger input accommodates auxiliary instrumentation. Physical footprint: 264 mm H × 397 mm W × 491 mm D.

Features & description

From manufacturer datasheet

Features

• Channels: 4 • Analog bandwidth @ 50 Ω (–3 dB): 5 GHz • Rise time (10%–90%, typ.): 90 ps • Sample rate: 20 GSa/s (1–2 channels); 10 GSa/s (4 channels) class • Standard memory (reseller listings): 8 Mpts class (options XL/XXL extend on family) • Clock accuracy: ≤ 1 ppm @ 0–40 °C (SDA family) • Serial trigger (SDA 5000A/XXL class): NRZ; 50 MHz–2.7 GHz; length to 32 bits; sens. ≥ 1 div and ≥ 10 mV • Optional BER: data rate ≤ 2.7 Gb/s; capture @ 20 GS/s class • Platform: X-Stream Windows-based DSO; ProBus probe support • Math/zoom: 8 math/zoom traces standard (family)

SDA5000A Characteristics / Specifications

PARAMETER	VALUE
Model	SDA 5000A
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA5000A; SDA 5000A; LeCroy SDA 5000A Vertical / Acquisition
Bandwidth	5 GHz
Rise time	90 ps typ.
Sample rate	20 GSa/s (1–2 channels); 10 GSa/s (4 channels) class
Channels	4 Notes Specs from LeCroy SDA Operator's Manual (SDA 5000/5000A column) and product listings. Confirm Option L, installed memory options, and serial-trigger license on the unit.
Analog bandwidth @ 50 Ω (–3 dB)	5 GHz
Rise time (10%–90%, typ.)	90 ps
Standard memory (reseller listings)	8 Mpts class (options XL/XXL extend on family)
Clock accuracy	≤ 1 ppm @ 0–40 °C (SDA family)
Serial trigger (SDA 5000A/XXL class)	NRZ; 50 MHz–2.7 GHz; length to 32 bits; sens. ≥ 1 div and ≥ 10 mV
Optional BER	data rate ≤ 2.7 Gb/s; capture @ 20 GS/s class
Platform	X-Stream Windows-based DSO; ProBus probe support
Math/zoom	8 math/zoom traces standard (family)
Data Rate	≤ 2.7 Gb/s; capture @ 20 GS/s class - Platform: X-Stream Windows-based DSO; ProBus probe support - Math/zoom: 8 math/zoom traces standard (family)

SDA5000A Specifications

PARAMETER	VALUE
Teledyne LeCroy SDA 5000A Serial Data Analyzer	Overview
Applications	High-speed serial eye/jitter analysis; NRZ serial trigger to 2.7 Gb/s class; multi-channel SI debug.
Key Features	- Channels: 4
Technical Specifications	Model: SDA 5000A
Vertical / Acquisition	Bandwidth: 5 GHz

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	SDA 5000A
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA5000A; SDA 5000A; LeCroy SDA 5000A

Vertical / Acquisition

Specifications

PARAMETER	VALUE
Bandwidth	5 GHz
Rise time	90 ps typ.
Sample rate	20 GSa/s (≤2 ch); 10 GSa/s (4 ch)
Channels	4

Notes

Specs from LeCroy SDA Operator’s Manual (SDA 5000/5000A column) and product listings. Confirm Option L, installed memory options, and serial-trigger license 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.