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Data Sheet

August 12, 2026

LECROY

LeCroy SDA6000A/STD Serial Data Analyzer

The LeCroy SDA6000A/STD Serial Data Analyzer is a high-speed serial data acquisition and analysis instrument designed for verification and debugging of complex serial communication protocols. With 6 GHz analog bandwidth and sampling rates up to 20 GS/s, it captures and analyzes signal integrity, jitter, and protocol compliance across multiple channels simultaneously. Typical Applications Serial protocol compliance testing (USB 2.0, PCI Express), signal integrity analysis, jitter characterization, and bit error rate validation in high-speed digital communication systems. Aumictech offers NIST-traceable calibration and repair for the Lecroy SDA6000A/STD. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Lecroy SDA6000A/STD is listed at . Calibration is available separately from



MODEL

**Lecroy
SDA6000A/STD**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SDA6000A/STD

LISTING

<https://aumictechlabs.com/products/sda6000a-std-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LeCroy SDA6000A/STD Serial Data Analyzer is a high-speed serial data acquisition and analysis instrument designed for verification and debugging of complex serial communication protocols. With 6 GHz analog bandwidth and sampling rates up to 20 GS/s, it captures and analyzes signal integrity, jitter, and protocol compliance across multiple channels simultaneously. Technical Specifications Analog Bandwidth: 6 GHz Input Channels: 4 channels

Real-Time Sampling Rate: 10 GS/s (4-channel mode); 20 GS/s (2-channel mode) Acquisition Memory: 4 Mpts/channel (4-channel mode); 8 Mpts/channel (2-channel mode); expandable to 48 Mpts/channel (2-channel mode optional) Rise Time: 75 ps typical Jitter Noise Floor: 1 ps RMS Trigger Jitter: < 2.5 ps RMS Maximum Data Rate: 3.5 Gb/s (serial pattern trigger up to 2.7 Gb/s) Timebase Stability: 1 ppm Display: 10.4" color TFT-LCD touchscreen Operating System: Windows 2000

Key Features

Serial Pattern Trigger: Capture on specific bit sequences up to 32 bits long (50 Mb/s to 2.7 Gb/s)

Clock Recovery: Precision numerical PLL with modes for PCI Express, DVI/HDMI, and golden reference

Jitter Analysis: Rj and Dj measurements with bathtub curve extrapolation for total jitter prediction; standard JTA2 package included

Eye Pattern Analysis: Records up to 8 million consecutive bits; identifies individual bit violations and transient events

Bit Error Rate Measurement: Total errors, 1's/0's error tracking, 3D error location mapping; capability to 1e-7 BER on single capture

Protocol Decoding: 8B/10B decoding available

Connectivity

ProBus probes with auto-sensing probe type detection

ProLink adapters for BNC and SMA connections

Ethernet: 10/100Base-T

Video Output: SVGA

USB and parallel ports

Typical Applications

Serial protocol compliance testing (USB 2.0, PCI Express), signal integrity analysis, jitter characterization, and bit error rate validation in high-speed digital communication systems.

Features & description

From manufacturer datasheet

Features

- Channels: 4
- Analog bandwidth @ 50 Ω (–3 dB): 6 GHz
- Rise time (10%–90%, typ.): 75 ps
- Sample rate: 20 GSa/s max (typically 20 GS/s on ≤ 2 ch / 10 GS/s on 4 ch for non-6020 A-series—confirm on unit)
- Memory: STD/VL/XL/XXL options; XXL class to 50 Mpts/Ch (100 Mpts for 2 or 1 ch)
- Clock accuracy: ≤ 1 ppm @ 0–40 °C
- Serial trigger (A/XXL): NRZ; 50 MHz–2.7 GHz; to 32 bits; ≥ 1 div / ≥ 10 mV
- Optional BER: ≤ 2.7 Gb/s class
- Platform: X-Stream; ProBus; specialized SDA analysis UI
- Target data rates: up to ~ 3.5 Gbit/s with 6 GHz capture (OEM press)

SDA6000ASTD Characteristics / Specifications

PARAMETER	VALUE
Model	SDA6000A/STD
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA6000A; SDA 6000A; SDA6000A/STD Vertical / Acquisition
Bandwidth	6 GHz
Rise time	75 ps typ.
Channels	4 Notes Specs from LeCroy SDA Operator's Manual and SDA6000A product literature. /STD = standard memory/options—verify sample-rate mode and licenses on the unit. Distinct from SDA-6020 (true 20 GS/s × 4).
Analog bandwidth @ 50 Ω (−3 dB)	6 GHz
Rise time (10%–90%, typ.)	75 ps
Sample rate	20 GSa/s max (typically 20 GS/s on ≤2 ch / 10 GS/s on 4 ch for non-6020 A-series—confirm on unit)
Memory	STD/VL/XL/XXL options; XXL class to 50 Mpts/Ch (100 Mpts for 2 or 1 ch)
Clock accuracy	≤1 ppm @ 0–40 °C
Serial trigger (A/XXL)	NRZ; 50 MHz–2.7 GHz; to 32 bits; ≥1 div / ≥10 mV
Optional BER	≤2.7 Gb/s class
Platform	X-Stream; ProBus; specialized SDA analysis UI
Target data rates	up to ~3.5 Gbit/s with 6 GHz capture (OEM press)

SDA6000ASTD Specifications

PARAMETER	VALUE
Teledyne LeCroy SDA6000A/STD Serial Data Analyzer	Overview
Applications	PCI Express and other high-speed serial eye/jitter analysis; serial pattern trigger to 2.7 Gbit/s; telecom/datacom SI.
Key Features	- Channels: 4
Technical Specifications	Model: SDA6000A/STD
Vertical / Acquisition	Bandwidth: 6 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	SDA6000A/STD
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA6000A; SDA 6000A; SDA6000A/STD

Vertical / Acquisition

Specifications

PARAMETER	VALUE
Bandwidth	6 GHz
Rise time	75 ps typ.
Channels	4

Notes

Specs from LeCroy SDA Operator's Manual and SDA6000A product literature. /STD = standard memory/options-verify sample-rate mode and licenses on the unit. Distinct from SDA-6020 (true 20 GS/s × 4).

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.