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Data Sheet

August 12, 2026

LECROY

LeCroy SDA-6020 Serial Data Analyzer, 6GHz, 4 Channel

Instrument Type: Serial Data Analyzer / Oscilloscope Alias: SDA6020; SDA 6020; LeCroy SDA-6020 Specs from LeCroy SDA Operator's Manual (SDA 6000/6000A/6020 column) and SDA-6020 product literature. Confirm installed memory options on the unit. Alias: SDA6020; SDA 6020; LeCroy SDA-6020 Specs from LeCroy SDA Operator's Manual (SDA 6000/6000A/6020 column) and SDA-6020 product literature. Confirm installed memory options on the unit.



MODEL

Lecroy SDA-6020

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SDA-6020

LISTING

<https://aumictechlabs.com/products/sda-6020-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The LeCroy SDA-6020 is a 6 GHz, 4-channel serial data analyzer purpose-built for high-speed digital communications testing and validation. It delivers integrated jitter analysis, eye pattern measurement, and clock recovery in a single platform, isolate root causes beyond simple pass/fail assessment. The instrument supports serial ATA, Xaui, Infiniband, PCI Express, Fibre Channel, Gigabit Ethernet, IEEE 1394, and SONET/SDH standards. Technical Specifications Analog Bandwidth: 6 GHz @ 50 Ohms (~3 dB) Channels: 4 Sampling Rate: 20 GS/s per channel Rise Time: 75 ps (typical) Record Length: 8 Mpts per channel (4-channel mode); up to 48 Mpts per channel (2-channel mode) Clock Accuracy: 1 ppm Delay Time Accuracy: Better than 1 ppm (10-second

interval) Trigger Jitter: Less than 2.5 ps Trigger Bandwidth: 5 GHz External Clock Input: 30 MHz to 2 GHz, 50 Ohms Internal Waveform Memory: 16 bits/data point Physical: 24 × 18 × 16 in; 49 lbs (23 kg) Key Features Jitter Analysis: Total Jitter (Tj), Random Jitter (Rj), and Deterministic Jitter (Dj) with bathtub curve extrapolation from TIE histogram Jitter Trend analysis for transient events and data dependent jitter contributions (ISI plot) Jitter Tolerance testing of receivers Eye Pattern Analysis: Up to eight million consecutive bits with violation locator; compliance with PCI Express, Serial ATA, USB 2.0, and Serial Attached SCSI standards Precision Numerical Clock Recovery with adjustable PLL response Data Storage: Internal hard drive, floppy drive, or USB peripheral support Interfaces & Connectivity SVGA video output 10/100Base-T Ethernet Parallel port USB port Optional Software Packages ASDA (Advanced Serial Data Analysis), DFP2 (Digital Filter), GPIB-I (GPIB Interface), XL (Extended Memory), PCIE-G2 (PCI Express Gen1/Gen2), SDA-SAS (SAS I/II Compliance), SDA-HDMI (HDMI Compliance), SDA-FBDIMM (FB-DIMM Analysis), SDA-UWB (UWB Test Solution).

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 single-shot on all 4 channels
- Memory: 20 Mpts/Ch standard (OEM manual family); reseller also cites 8 Mpts/Ch base with expansion to 48 Mpts/Ch—confirm installed option
- Option SDA-XL: 25 Mpts/Ch; 50 Mpts/Ch for 2 or 1 ch (family table)
- Clock accuracy: ≤ 1 ppm class @ 0–40 °C
- Trigger/interpolator jitter: ≤ 2.5 ps rms (family)
- External clock input: Aux, 30 MHz–2 GHz / 50 Ω (SDA 6020)
- Display: 10.4" TFT touch (typical platform)
- Interfaces: 10/100Base-T Ethernet; Windows OS platform
- Analysis: eye patterns; TJ/RJ/DJ jitter; rise/fall; optical extinction/Q with O/E accessories

SDA6020 Characteristics / Specifications

PARAMETER	VALUE
Model	SDA-6020
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA6020; SDA 6020; LeCroy SDA-6020 Vertical / Acquisition
Bandwidth	6 GHz
Rise time	75 ps typ.
Sample rate	20 GSa/s single-shot on all 4 channels
Channels	4 Notes Specs from LeCroy SDA Operator's Manual (SDA 6000/6000A/6020 column) and SDA-6020 product literature. Confirm installed memory options on the unit.
Analog bandwidth @ 50 Ω (–3 dB)	6 GHz
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SDA6020 Specifications

PARAMETER	VALUE
Applications	Multi-lane serial physical-layer test; simultaneous 4-channel high sample-rate capture; eye/jitter/compliance analysis.
Key Features	- Channels: 4
Technical Specifications	Model: SDA-6020
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	
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PARAMETER	VALUE
Model	SDA-6020
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / Oscilloscope
Alias	SDA6020; SDA 6020; LeCroy SDA-6020
Vertical / Acquisition	
Specifications	
PARAMETER	VALUE
Bandwidth	6 GHz
Rise time	75 ps typ.
Sample rate	20 GSa/s × 4 ch
Channels	4
Notes	
Specs from LeCroy SDA Operator's Manual (SDA 6000/6000A/6020 column) and SDA-6020 product literature. Confirm installed memory 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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.