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Data Sheet

August 3, 2026

LECROY

LeCroy WaveMaster 830Zi

Teledyne LeCroy WaveMaster 830Zi Serial Data Analyzer 30 GHz The WaveMaster / SDA 830Zi (8 Zi-A family) provides a Teledyne LeCroy 30 GHz, 4-channel serial data analyzer / high-bandwidth oscilloscope. In ≥ 25 GHz mode it delivers 30 GHz on 2.92 mm inputs with 40 GS/s on 4 channels (80 GS/s on 2 channels). SDA models include serial-data analysis toolsets for multi-Gb/s eye, jitter, and standard compliance. X-Stream architecture with high-performance multi-core CPU. 30 GHz serial data analysis; multi-Gb/s eye/jitter; optical link debug with OE695G; high-speed electrical validation. The WaveMaster / SDA 830Zi (8 Zi-A family) provides a Teledyne LeCroy 30 GHz, 4-channel serial data analyzer / high-bandwidth oscilloscope. In ≥ 25 GHz mode it delivers 30 GHz on 2.92 mm inputs with 40 GS/s on 4 channels (80 GS/s on 2 channels). SDA models include serial-data analysis toolsets for multi-Gb/s eye, jitter, and standard compliance. X-Stream architecture with high-performance multi-core CPU. 30 GHz serial data analysis; multi-Gb/s eye/jitter; optical link debug with OE695G; high-speed electrical validation.

No photo

MODEL

LeCroy 830ZI

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

830ZI

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

- Analog BW @ 50 Ω (2.92 mm): 30 GHz • ProLink inputs: 20 GHz (≥ 10 mV/div); ProBus: 3.5 GHz (≥ 10 mV/div); 1 M Ω ProBus: 500 MHz typ. • Rise time (10–90%, flatness): 15.5 ps test limit; (20–80%): 11.5 ps
- Channels: 4 (combination of ProLink/ProBus); 2-ch @ full BW or 3-ch mixed modes • Sample rate: 40 GS/s on 4 Ch; 80 GS/s on 2 Ch in ≥ 25 GHz mode • Vertical: 8 bits (up to 11 bits ERES) • Sensitivity 50 Ω ProLink/ProBus: 2 mV–1 V/div; 1 M Ω : 2 mV–10 V/div • Optional MS-250/MS-500 mixed-signal; OE695G optical-to-electrical (DC–9.5 GHz) • SDA toolset on SDA 830Zi-A configurations

830ZI Characteristics / Specifications

PARAMETER	VALUE
Model	WaveMaster / SDA 830Zi (8 Zi-A)
Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / High-Bandwidth Oscilloscope
Alias	830Zi; WaveMaster 830Zi; SDA 830Zi-A Bandwidth / Timing 30 GHz @ 2.92 mm (50 Ω , -3 dB)
Rise Time	80%: 11.5 ps (flatness mode) Acquisition 40 GS/s (4 Ch); 80 GS/s (2 Ch, ≥ 25 GHz mode)
RIS	200 GS/s for repetitive signals in ≤ 20 GHz mode (not applicable ≥ 25 GHz mode per OEM)
Standard / max memory	configuration-dependent (SDA models often higher than base WaveMaster—confirm installed memory options) Inputs 2.92 mm full-BW paths; ProLink to 20 GHz; ProBus to 3.5 GHz (50 Ω) / 500 MHz (1 M Ω typ.) Standard Operating Conditions
Analog BW @ 50 Ω (2.92 mm)	30 GHz
ProLink inputs	20 GHz (≥ 10 mV/div); ProBus: 3.5 GHz (≥ 10 mV/div); 1 M Ω ProBus: 500 MHz typ.
Rise time (10–90%, flatness)	15.5 ps test limit; (20–80%): 11.5 ps
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Sample rate	40 GS/s on 4 Ch; 80 GS/s on 2 Ch in ≥ 25 GHz mode
Vertical	8 bits (up to 11 bits ERES)
Sensitivity 50 Ω ProLink/ProBus	2 mV–1 V/div; 1 M Ω : 2 mV–10 V/div
Bandwidth	oscilloscope. In ≥ 25 GHz mode it delivers 30 GHz on 2.92 mm inputs with 40 GS/s on 4 channels (80 GS/s on 2 channels). SDA models include serial-data analysis toolsets for multi-Gb/s eye, jitter, and standard compliance. X-Stream architecture with hi

830ZI Specifications

PARAMETER	VALUE
Applications	30 GHz serial data analysis; multi-Gb/s eye/jitter; optical link debug with OE695G; high-speed electrical validation.
Key Features	- Analog BW @ 50 Ω (2.92 mm): 30 GHz
Technical Specifications	Model: WaveMaster / SDA 830Zi (8 Zi-A)
Bandwidth / Timing	30 GHz @ 2.92 mm (50 Ω , -3 dB)
Acquisition	40 GS/s (4 Ch); 80 GS/s (2 Ch, ≥ 25 GHz mode)
Inputs	2.92 mm full-BW paths; ProLink to 20 GHz; ProBus to 3.5 GHz (50 Ω) / 500 MHz (1 M Ω typ.)
Standard Operating Conditions	Use calibrated torque on 2.92 mm connectors. Select ≤ 20 GHz vs ≥ 25 GHz operating mode per measurement need.

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 multi-core CPU.

Applications

30 GHz serial data analysis; multi-Gb/s eye/jitter; optical link debug with OE695G; high-speed electrical validation.

Key Features

- Analog BW @ 50 Ω (2.92 mm): 30 GHz
- ProLink inputs: 20 GHz (≥10 mV/div); ProBus: 3.5 GHz (≥10 mV/div); 1 MΩ ProBus: 500 MHz typ.
- Rise time (10–90%, flatness): 15.5 ps test limit; (20–80%): 11.5 ps
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- Vertical: 8 bits (up to 11 bits ERES)
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- Optional MS-250/MS-500 mixed-signal; OE695G optical-to-electrical (DC–9.5 GHz)
- SDA toolset on SDA 830Zi-A configurations

Technical Specifications

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Manufacturer	Teledyne LeCroy
Instrument Type	Serial Data Analyzer / High-Bandwidth Oscilloscope
Alias	830Zi; WaveMaster 830Zi; SDA 830Zi-A

Bandwidth / Timing

30 GHz @ 2.92 mm (50 Ω, –3 dB)

Rise Time 10–90%: 15.5 ps (flatness mode test limit)

Rise Time 20–80%: 11.5 ps (flatness mode)

Specifications

PARAMETER	VALUE
Acquisition	40 GS/s (4 Ch); 80 GS/s (2 Ch, ≥25 GHz mode)
RIS	200 GS/s for repetitive signals in ≤20 GHz mode (not applicable ≥25 GHz mode per OEM)
Standard / max memory	configuration-dependent (SDA models often higher than base WaveMaster-confirm installed memory options)

Inputs

2.92 mm full-BW paths; ProLink to 20 GHz; ProBus to 3.5 GHz (50 Ω) / 500 MHz (1 MΩ typ.)

Standard Operating Conditions

Use calibrated torque on 2.92 mm connectors. Select ≤20 GHz vs ≥25 GHz operating mode per measurement need.

Operational Notes

Catalog title “Serial Data Analyzer” maps to SDA 830Zi-class feature set. WaveMaster 830Zi-A without SDA option may lack some serial packages–verify installed software keys.

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

788 S 500 E, Pleasant Grove, UT 84062
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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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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.