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Data Sheet

August 12, 2026

YOKOGAWA

Yokogawa SB5310 Serial Data Analyzer

Yokogawa SB5310 Vehicle Serial Bus Analyzer (SB5000 Series) The Yokogawa SB5310 is the 4-analog-channel + 8-bit logic model of the discontinued SB5000 Vehicle Serial Bus Analyzer family. Same acquisition core as SB5710 (up to 5 GS/s, 1 GHz, 6.25 Mpts/ch) with 8-bit logic instead of 32-bit. Dedicated FlexRay/CAN/LIN/UART/I²C/SPI analysis for automotive ECU development. Discontinued 2013-03-13. FlexRay/CAN/LIN physical and protocol debug; UART/I²C/SPI; 8-bit parallel logic with analog correlation; FlexRay eye-diagram and SI voting (FW-dependent). The Yokogawa SB5310 is the 4-analog-channel + 8-bit logic model of the discontinued SB5000 Vehicle Serial Bus Analyzer family. Same acquisition core as SB5710 (up to 5 GS/s, 1 GHz, 6.25 Mpts/ch) with 8-bit logic instead of 32-bit. Dedicated FlexRay/CAN/LIN/UART/I²C/SPI analysis for automotive ECU development. Discontinued 2013-03-13. FlexRay/CAN/LIN physical and protocol debug; UART/I²C/SPI; 8-bit parallel logic with analog correlation; FlexRay eye-diagram and SI voting (FW-dependent).



MODEL

Yokogawa SB5310

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SB5310

LISTING

<https://aumictechlabs.com/products/sb5310-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Yokogawa SB5310 Serial Data Analyzer captures and analyzes serial communication protocols in automotive and ECU development environments. It combines 4 analog channels with 8-bit logic analysis to decode FlexRay, CAN, LIN, UART, I²C, and SPI buses simultaneously. The instrument delivers 1 GHz bandwidth, 2.5 GS/s sampling per channel, and 6.25 MW memory

depth, enabling detailed protocol decoding, error triggering, and statistical measurement across multiple serial standards. Technical Specifications Bandwidth: 1 GHz Sampling Rate: 2.5 GS/s per channel Memory Depth: 6.25 MW (Mpts) Analog Channels: 4 Logic Channels: 8-bit Supported Protocols: FlexRay, CAN, LIN, UART, I²C, SPI Key Features FlexRay Analysis Eye-diagram analysis and electrical characterization of bus driver parameters Symbolic triggering, decoding, and trend display with FIBEX database support Error triggering on CRC, BSS, and FES violations BSS bit time interval measurement and statistical calculation CAN Bus Analysis Symbolic triggering and decoding with DBC database integration Dedicated triggers for Start of Frame, ID, Data, Remote Frame, and Error Frame Combination bit conditions on ID and Data triggers LIN Bus Analysis Protocol-specific error triggering (Parity, CheckSum, TimeOut) Simultaneous LIN revision 1.3 and 2.0 conformity analysis UART, I²C, and SPI General-purpose and error-specific triggering (parity, framing errors) SPI analysis without CS source assignment (firmware 4.42+) Acquisition and Display Advanced combination triggering across bus signals and analog channels History Memory with retroactive protocol analysis review State and bus display modes for parallel signal analysis Typical Applications ECU debugging and validation Automotive serial bus characterization Microprocessor parallel bus monitoring alongside serial protocol analysis Multi-protocol system integration testing Compatibility & Integration Supports FIBEX and DBC database formats for automated protocol configuration and symbolic analysis.

Features & description

From manufacturer datasheet

Features

- Analog: 4 ch, 1 GHz bandwidth
- Max sample rate: 5 GS/s (2.5 GS/s per channel)
- Memory: 6.25 MW (Mpts) per channel
- Logic: 8-bit (probes 701980/701981 required)
- Serial buses: FlexRay, CAN, LIN, UART, I²C, SPI
- FlexRay eye-diagram; SI Voting (FW ≥ 4.42); CAN/FlexRay symbolic (DBC/FIBEX)
- History Memory up to 2000 segments; Serial Bus Auto Setup
- USB-PC, Video OUT, Trigger I/O, PC Card (GPIB via NI PCMCIA-GPIB); optional Ethernet / LXI /C12

SB5310 Characteristics / Specifications

PARAMETER	VALUE
Model	SB5310
Manufacturer	Yokogawa
Instrument Type	Vehicle Serial Bus Analyzer
Family	SB5000 Series
Alias	SB5310; Yokogawa SB5310 Acquisition
Analog channels	4; Bandwidth: 1 GHz
Max sample rate	5 GS/s (2.5 GS/s per channel)
Record length	6.25 MW/ch
Logic	8 bits (701980/701981 probes) Sibling
SB57	same analog specs + 32-bit logic Lifecycle
Discontinued	2013-03-13; replacement class DLM5000 Notes Specs from Yokogawa SB5000 model table. Confirm options/firmware/probes on unit. Differs from SB5710 only by 8-bit vs 32-bit logic.
Analog	4 ch, 1 GHz bandwidth
Memory	6.25 MW (Mpts) per channel
Serial buses	FlexRay, CAN, LIN, UART, I ² C, SPI
Bandwidth	Max sample rate: 5 GS/s (2.5 GS/s per channel) - Memory: 6.25 MW (Mpts) per channel - Logic: 8-bit (probes 701980/701981 required) - Serial buses: FlexRay, CAN, LIN, UART, I ² C, SPI - FlexRay eye-diagram; SI Voting (FW ≥4.42); CAN/FlexRay symbolic (DB

SB5310 Specifications

PARAMETER	VALUE
Key Features	- Analog: 4 ch, 1 GHz bandwidth
Technical Specifications	Model: SB5310
Acquisition	Analog channels: 4; Bandwidth: 1 GHz
Sibling	SB5710: same analog specs + 32-bit logic
Lifecycle	Discontinued: 2013-03-13; replacement class DLM5000
Notes	Specs from Yokogawa SB5000 model table. Confirm options/firmware/probes on unit. Differs from SB5710 only by 8-bit vs 32-bit logic.

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	SB5310
Manufacturer	Yokogawa
Instrument Type	Vehicle Serial Bus Analyzer
Family	SB5000 Series
Alias	SB5310; Yokogawa SB5310

Acquisition

Specifications

PARAMETER	VALUE
Analog channels	4; Bandwidth: 1 GHz
Max sample rate	5 GS/s (2.5 GS/s/ch)
Record length	6.25 MW/ch
Logic	8 bits (701980/701981 probes)

Sibling

SB5710: same analog specs + 32-bit logic

Lifecycle

Discontinued: 2013-03-13; replacement class DLM5000

Notes

Specs from Yokogawa SB5000 model table. Confirm options/firmware/probes on unit. Differs from SB5710 only by 8-bit vs 32-bit logic.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.