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Data Sheet

August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research SR245 " Computer Interface Module

Stanford Research Systems SR245 Computer Interface Module The SRS SR245 is a single-width NIM computer-interface and data-acquisition module for boxcar and general analog/digital I/O. Eight analog ports are software-assigned as inputs or outputs over ± 10.24 VDC with 13-bit (2.5 mV) resolution. Two front-panel TTL bits serve as counters or triggers; an internal 8-bit input and latched 8-bit output support custom digital interfaces. A 3500-point (scan commands allow up to 3711 samples) buffer records triggered scans. GPIB and RS-232 are standard. The SRS SR245 is a single-width NIM computer-interface and data-acquisition module for boxcar and general analog/digital I/O. Eight analog ports are software-assigned as inputs or outputs over ± 10.24 VDC with 13-bit (2.5 mV) resolution. Two front-panel TTL bits serve as counters or triggers; an internal 8-bit input and latched 8-bit output support custom digital interfaces. A 3500-point (scan commands allow up to 3711 samples) buffer records triggered scans. GPIB and RS-232 are standard. Boxcar averager computer readout; analog monitoring of gated integrators; digital triggering and counting; analog ramp generation for gate scanning; mixed analog/digital experiment I/O in an SR280 NIM mainframe.



MODEL

**Stanford Research
Systems SR245**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SR245

LISTING

<https://aumictechlabs.com/products/sr245-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Stanford Research Systems SR245 Computer Interface Module bridges computers and experimental setups within the SR200 Series modular platform. It enables automated data acquisition and instrument control through dual communication interfaces, software-configurable analog I/O, and programmable digital logic. The module stores up to 3500 measurement points and operates in both synchronous and asynchronous modes for flexible laboratory integration.

Technical Specifications

Analog I/O 8 channels, software-configurable as inputs, outputs, or mixed 13-bit resolution per channel ± 10.24 VDC full-scale range 0.05% accuracy 1 M Ω input impedance ± 40 VDC input protection

Digital I/O 2 TTL I/O bits on front panel (counter/trigger capable) 1 $\times$ 8-bit input port and 1 $\times$ 8-bit output port on internal connector

TTL logic: logic one > 3 VDC, logic zero < 0.7 VDC ± 10 VDC TTL input protection

Memory & Interfaces 3500-point buffer memory for measurement storage RS-232 serial communication GPIB (IEEE-488) instrument control interface Simple ASCII command set compatible with high-level languages

Key Features

Dual operational modes: synchronous (MS command) with response after trigger, and asynchronous (MA command, default) with immediate response

Internal configuration switches for setup matching with control software (e.g., SR272)

Direct analog voltage measurement on individual channels via simple commands

Scan parameter control supporting single, continuous, and time-based scan configurations

Analog output ramp control for gate scanning applications

Digital counter value readout capability

Typical Applications

The SR245 enables computer-automated experiments requiring synchronized data acquisition, analog signal measurement and generation, and digital event counting. It is the control interface for gated integrator and fast sampler modules within experimental workflows.

Compatibility & Integration

The SR245 integrates directly into the SRS SR200 Series modular platform, facilitating control of companion modules such as the SR250 Gated Integrator and SR255 Fast Sampler. Configuration via internal switches ensures proper operation with associated control software.

Features & description

From manufacturer datasheet

Features

- Eight analog I/O BNCs, any mix of inputs and outputs
- 13-bit resolution, 2.5 mV LSB, +/-10.24 V full scale
- Two front-panel TTL bits plus 8-bit digital in/out
- 3500-point sample memory with synchronous or asynchronous query
- GPIB and RS-232 (110 baud to 19.2 kbaud)
- Simple ASCII command set (example: ?5 reads analog port 5)

SR245 Characteristics / Specifications

PARAMETER	VALUE
Model	SR245
Manufacturer	Stanford Research Systems
Instrument Type	Computer Interface / Data Acquisition Module
Family	SRS boxcar NIM modules
Alias	SR245; SRS SR245
Form Factor	single-width standard NIM module
Analog Port Count	8
Analog Full Scale	+/-10.24 VDC
Analog Resolution	13 bit (2.5 mV)
Analog Accuracy Catalog Headlines	0.05 %
Analog Input Accuracy Spec Table	0.5 %
Analog Output Accuracy Spec Table	0.5 %
Analog Input Impedance	1 MOhm
Analog Input Protection	40 VDC
Analog Input Offset	less than 2.5 mV
Maximum AD Rate	2 kHz
Analog Output Impedance	less than 1 ohm
Analog Output Short Circuit Current	20 mA
Analog Output Offset	less than 2.5 mV
Analog Output Set Range	-10.237 V to +10.237 V
Front Panel TTL Bits	2
Digital Input Port Width	8 bit
Digital Output Port Width	8 bit latched
Front Panel Input Impedance	greater than 100 kOhm
Minimum Pulse Width	200 ns

PARAMETER	VALUE
Maximum Count Rate	4 MHz
Logic One Threshold	greater than 3 VDC
Logic Zero Threshold	less than 0.7 VDC
Front Panel Input Protection	+/-10 VDC
Front Panel TTL Drive	can drive 50 ohm loads to TTL levels
Sample Memory	3500 points (scan total may not exceed 3711)
Trigger Pulse Width Command	10 us TTL pulse
Interfaces	IEEE-488 GPIB and RS-232 110 baud to 19.2 kbaud
Power Plus 24 V	60 mA
Power Minus 24 V	60 mA
Power Plus 12 V	20 mA
Power Total	approximately 8 W
Status	listed obsolete on the current SRS product page Notes Specs from SRS SR245 product page and SR245c catalog. Headline analog accuracy is 0.05 % while the specification table lists 0.5 %; record both and confirm onacalibrated unit. Requires NIM crate power (SR280 or equivalent).
Simple ASCII command set (example	?5 reads analog port 5)

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.

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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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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.