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Data Sheet

August 12, 2026

STANFORD RESEARCH

Stanford Research SR240 – 300 MHz Preamplifier

Stanford Research Systems SR240 300 MHz Preamplifier The SRS SR240 is a 4-channel DC-coupled NIM-module preamplifier for amplifying low-level signals from photomultipliers and photodiodes before boxcar/gated-integrator processing (e.g. SR250). Listing cites 300 MHz; successor SR240A is 350 MHz—confirm faceplate marking. PMT/photodiode front-end amplification; boxcar averager signal conditioning; cascading channels for higher gain. The SRS SR240 is a 4-channel DC-coupled NIM-module preamplifier for amplifying low-level signals from photomultipliers and photodiodes before boxcar/gated-integrator processing (e.g. SR250). Listing cites 300 MHz; successor SR240A is 350 MHz—confirm faceplate marking. PMT/photodiode front-end amplification; boxcar averager signal conditioning; cascading channels for higher gain.



MODEL

**Stanford Research
SR240**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

SR240

LISTING

<https://aumictechlabs.com/products/sr240-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Stanford Research Systems SR240 is a four-channel preamplifier engineered for amplification of low-level signals across DC to 300 MHz. Each channel delivers 5× gain independently, with cascaded configurations achieving gains of 25, 125, or 625. The unit operates at 50 Ω input/output impedance with 1 ns rise/fall time, 6.4 nV/√Hz input noise, and 3 ns overload recovery. Phase linearity is excellent across the operating bandwidth. DC coupling enables measurement of both AC and DC components. The SR240 integrates directly with photomultiplier

tubes, photodiodes, and downstream instruments such as the SR250 boxcar averager, making it ideal for RF measurements, signal recovery, and sensor amplification.

Technical Specifications
Bandwidth: DC to 300 MHz Gain per Channel: 5 (independent operation) Cascaded Gains: 5, 25, 125, 625 Input/Output Impedance: 50 Ω Input Noise: 6.4 nV/ $\sqrt{\text{Hz}}$ Rise/Fall Time: 1 ns Overload Recovery: 3 ns Coupling: DC-coupled Number of Channels: 4

Key Features Four independent channels with selectable gain architecture Low noise performance essential for weak signal recovery Fast transient response with 1 ns rise/fall time Rapid overload recovery at 3 ns ensures minimal signal loss during transients Standard 50 Ω impedance compatibility with RF test equipment Excellent phase linearity across full bandwidth

Typical Applications Photomultiplier tube signal conditioning Photodiode amplification RF signal recovery and measurement Low-level sensor signal preprocessing Integration with lock-in amplifiers and boxcar averagers

Compatibility & Integration The SR240 connects directly to Stanford Research Systems instruments, particularly the SR250 gated integrator and boxcar averager, for enhanced signal measurement capabilities. Standard RF connectors (BNC) support integration with existing test benches and measurement systems.

Features & description

From manufacturer datasheet

Features

- Channels: 4 independent (gain 5 each)
- Bandwidth: DC to 300 MHz (SR240); SR240A: DC to 350 MHz (−3 dB)
- Cascaded gains: 5, 25, 125 (SR240 max 125); SR240A to 625
- Rise/fall: ~1.2 ns (SR240); 1 ns (SR240A single channel)
- Input noise: ~2.8 nV/√Hz (SR240); 6.4 nV/√Hz (SR240A)
- Impedance: 50 Ω input and output, DC coupled
- Fast overload recovery
- Form factor: single-width NIM module

SR240 Characteristics / Specifications

PARAMETER	VALUE
Model	SR240
Manufacturer	Stanford Research Systems
Instrument Type	Multichannel Preamplifier
Alias	SR240; SRS SR240 Amplifier (SR240 listing class)
Bandwidth	DC to 300 MHz (SR240); SR240A: DC to 350 MHz (−3 dB)
Channels	4 independent (gain 5 each)
I/O	50 Ω DC coupled Notes Listing is SR240 300 MHz. If unit is labeled SR240A, use 350 MHz / gain-to-625 / 6.4 nV/√Hz specs from SRS SR240A datasheet. Confirm NIM crate power and labeling on the unit.
Cascaded gains	5, 25, 125 (SR240 max 125); SR240A to 625
Rise/fall	~1.2 ns (SR240); 1 ns (SR240A single channel)
Input noise	~2.8 nV/√Hz (SR240); 6.4 nV/√Hz (SR240A)
Impedance	50 Ω input and output, DC coupled
Form factor	single-width NIM module

SR240 Specifications

PARAMETER	VALUE
Stanford Research Systems SR240 300 MHz Preamplifier	Overview
Key Features	- Channels: 4 independent (gain 5 each)
Technical Specifications	Model: SR240
Amplifier (SR240 listing class)	Bandwidth: DC–300 MHz

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	SR240
Manufacturer	Stanford Research Systems
Instrument Type	Multichannel Preamplifier
Alias	SR240; SRS SR240

Amplifier (SR240 listing class)

Specifications

PARAMETER	VALUE
Bandwidth	DC-300 MHz
Channels	4 × gain 5; cascade to 125
I/O	50 Ω DC coupled

Notes

Listing is SR240 300 MHz. If unit is labeled SR240A, use 350 MHz / gain-to-625 / 6.4 nV/√Hz specs from SRS SR240A datasheet. Confirm NIM crate power and labeling 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.