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Data Sheet

August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research FS710

Stanford Research Systems FS710 10 MHz AGC Distribution Amplifier The SRS FS710 is a seven-channel 10 MHz AGC distribution amplifier designed as an accessory to the FS700 LORAN-C frequency standard. One transformer-isolated BNC input feeds seven locally grounded BNC outputs. Automatic gain control restores up to 30 dB of cable loss so a 10 MHz reference can be delivered about a mile from the source. Catalog output level is 1 Vpp into 50 ohm +/- 10 %. Distributing a 10 MHz house reference from an FS700 (or other 10 MHz standard) to remote benches; compensating long coaxial runs; multi-instrument 10 MHz fan-out. The SRS FS710 is a seven-channel 10 MHz AGC distribution amplifier designed as an accessory to the FS700 LORAN-C frequency standard. One transformer-isolated BNC input feeds seven locally grounded BNC outputs. Automatic gain control restores up to 30 dB of cable loss so a 10 MHz reference can be delivered about a mile from the source. Catalog output level is 1 Vpp into 50 ohm +/- 10 %. Distributing a 10 MHz house reference from an FS700 (or other 10 MHz standard) to remote benches; compensating long coaxial runs; multi-instrument 10 MHz fan-out.



MODEL

**Stanford Research
Systems FS710**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FS710

LISTING

<https://aumictechlabs.com/products/fs710-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Stanford Research Systems FS710 is a 10 MHz AGC distribution amplifier that delivers seven stable outputs from a single input source. Built-in Automatic Gain Control compensates for up to

30 dB of cable loss, enabling 10 MHz reference distribution over distances approaching one mile. The transformer-coupled input accepts signals from 50 mVpp to 5 Vpp across the 10 MHz $\pm$ 100 kHz band, while all seven outputs deliver 1 Vpp into 50 Ω with $\pm$ 10% stability. Output level is adjustable from 0.75 to 1.25 Vpp via front-panel potentiometer. Input and output impedance are jumper-selectable between 50 Ω and 75 Ω , with VSWR below 1.2 at 10 MHz on both ports. Harmonic distortion remains below -25 dBc across the output spectrum.

Technical Specifications
Input Frequency: 10 MHz $\pm$ 100 kHz Type: Insulated BNC, transformer coupled Level: 50 mVpp to 5 Vpp VSWR: <1.2 at 10 MHz Impedance: 50 or 75 Ω (jumper selectable) Output Quantity: 7 local grounded BNCs Level: 1 Vpp into 50 Ω , $\pm$ 10% (adjustable 0.75–1.25 Vpp) VSWR: <1.2 at 10 MHz Distortion: < -25 dBc Gain Control AGC range: Up to 30 dB compensation Power Input: 100/120/220/240 VAC, 50/60 Hz Consumption: 3 W Physical Dimensions: 7.75" W $\times$ 2" H $\times$ 7.5" D Weight: 3 lbs Environmental Operating temperature: 0°C to 40°C

Key Features Single input drives seven independent outputs with AGC stabilization Transformer-coupled input isolation Dual impedance selection for flexible system integration Potentiometer-adjustable output amplitude Low harmonic distortion for precision timing applications Compact rack-compatible form factor

Typical Applications Multi-instrument 10 MHz clock distribution in measurement systems Long-distance frequency standard distribution with automatic cable loss compensation Laboratory timebase routing to geographically dispersed equipment

Compatibility & Integration The FS710 accepts standard BNC connectors on input and output. Impedance selection via jumper allows operation in both 50 Ω and 75 Ω systems. Universal AC mains voltage support (100–240 VAC) accommodates global installation environments.

Features & description

From manufacturer datasheet

Features

- Seven independent 10 MHz outputs from one input
- AGC gain up to 30 dB
- Transformer-coupled, ground-isolated input
- Jumper-selectable 50 ohm or 75 ohm input (manual)
- Output VSWR less than 1.2 at 10 MHz
- Compact 7.75 in x 2 in x 7.5 in, 3 lbs chassis

FS710 Characteristics / Specifications

PARAMETER	VALUE
Model	FS710
Manufacturer	Stanford Research Systems
Instrument Type	10 MHz AGC Distribution Amplifier
Alias	FS710; SRS FS710
Parent Accessory For	FS700 LORAN-C frequency standard
Input Frequency	10 MHz +/-100 kHz
Input Connector	insulated BNC, transformer coupled
Input Impedance	50 ohm or 75 ohm, jumper selectable (manual)
Catalog Input Level	50 mVpp to 5 Vpp
Manual Input Level	35 mV to 5 VAC peak-to-peak
Input VSWR	less than 1.2 at 10 MHz
Output Channel Count	7
Output Connectors	locally grounded BNCs
Catalog Output Level	1 Vpp into 50 ohm, +/-10 %
Manual Output Level High Z	2 V peak-to-peak into 10 kOhm, +/-10 %
Output VSWR	less than 1.2 at 10 MHz
Catalog Distortion	less than -25 dBc
Manual Distortion	less than -30 dBc
AGC Gain	up to 30 dB
Cable Reach	up to one mile of cable (OEM statement)
Number of Inputs	1
Output Isolation	seven independently buffered channels
Loss of Signal Indicator	red LED when AGC control voltage becomes less than -2.5 V (manual circuit description)
Catalog Line Power	100/120/220/240 VAC, 3 W, 50/60 Hz
Manual Line Power	100/120/220/240 VAC, 10 W, 50/60 Hz

PARAMETER	VALUE
Dimensions	7.75 in x 2 in x 7.5 in (WHD)
Weight	3 lbs
Output Waveform	sine
Intended Source Frequency	10 MHz timebase
Line Selector	rear power-entry card for 100/120/220/240 VAC (manual)
Form Factor	benchtop half-width class chassis Notes Specs from SRS FS710 catalog and FS710 manual. Catalog and manual differ on input level, distortion, and line power; cite both and confirm on the unit. The FS710 does not generate 10 MHz by itself.

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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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 ·
30-day returns
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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.