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Data Sheet

August 2, 2026

STANFORD RESEARCH

Stanford Research FS730 – Seven-channel Distribution Amplifier

Stanford Research FS730 – Seven-channel Distribution Amplifier The FS730 provides a benchtop one-input, seven-output distribution amplifier family designed for precision reference and clock distribution with model suffixes for 10 MHz, 5 MHz, CMOS, 50 Ω broadband, and 75 Ω outputs. Sine-wave variants deliver leveled outputs approximately +13 dBm class with greater than 100 dB isolation and low additive phase noise on BNC front-panel connectors. Reference clock distribution to multiple instruments; 10 MHz and 5 MHz lab frequency reference fan-out; CMOS logic clock distribution; 50 Ω and 75 Ω RF reference routing; phase-noise-sensitive timing networks; multi-channel trigger and sync distribution in test racks. The FS730 provides a benchtop one-input, seven-output distribution amplifier family designed for precision reference and clock distribution with model suffixes for 10 MHz, 5 MHz, CMOS, 50 Ω broadband, and 75 Ω outputs. Sine-wave variants deliver leveled outputs approximately +13 dBm class with greater than 100 dB isolation and low additive phase noise on BNC front-panel connectors. Reference clock distribution to multiple instruments; 10 MHz and 5 MHz lab frequency reference fan-out; CMOS logic clock distribution; 50 Ω and 75 Ω RF reference routing; phase-noise-sensitive timing networks; multi-channel trigger and sync distribution in test racks.



MODEL

**Stanford Research
FS730**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

FS730

LISTING

<https://aumictechlabs.com/products/fs730-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Stanford Research FS730 is a seven-channel distribution amplifier that replicates and synchronizes signals from a single source to multiple destinations with exceptional timing precision. Housed in a compact half-width benchtop chassis, it delivers low-jitter signal distribution across DC to 50 MHz with configurable frequency options. The unit accommodates virtually any waveform with near-50% duty cycle and CMOS-level logic pulses, making it ideal for multi-channel synchronization in test and measurement systems.

Technical Specifications

Inputs & Signal Conditioning Single AC-coupled or DC-coupled input with 1 k Ω impedance Input frequency range: DC to 50 MHz Schmitt trigger input with 1.3 VDC switching threshold (L-H) and 0.35 V hysteresis Input limiter conditions signals by removing amplitude modulation and blocking noise beyond 50 mV from zero-crossing Minimum pulse width: >5 ns Input overload indication at ± 2 V; signal presence LED flashes at >300 mV

Outputs Seven independent output channels 50 $\Omega \pm 5\%$ source impedance (optional 75 Ω available) Output levels: 0 VDC and 5.0 VDC (high-Z load); 0 VDC and 2.5 VDC (50 Ω load) 1 Vrms (+13 dBm) sine wave into 50 Ω load Output jitter: <10 ps rms Typical output delay: 9 ns with ± 1 ns skew between channels Rise time: <1.5 ns; fall time: <1.0 ns Overshoot and undershoot: <5% each Configurable polarity via internal jumper (non-inverting as shipped) High channel-to-channel isolation at 10 MHz and beyond

Physical & Power Benchtop chassis: half-width, 1U height Rack mountable with optional O730RMD kit (side-by-side mounting of two units in 19" rack) Power: 100/120/220/240 VAC, 50/60 Hz, 10 W (operates 90–132 VAC or 175–264 VAC, 47–63 Hz)

Key Features Sub-10 ps jitter preserves signal integrity across all seven channels Integrated input limiter eliminates amplitude variations and noise conditioning Fast rise/fall times (<1.5 ns / <1.0 ns) support high-speed digital and analog applications Flexible coupling options (AC/DC) accommodate diverse source impedances and DC offsets

Frequency Options FS730/1: One 10 MHz input, seven 10 MHz outputs FS730/2: One 5 MHz input, seven outputs

Typical Applications Multi-channel clock distribution in precision timing systems Signal synchronization across test instrumentation racks Reference distribution in RF and digital measurement setups

Features & description

From manufacturer datasheet

Features

- One input, seven outputs distribution amplifier
- FS730/1: 10 MHz sine
- FS730/2: 5 MHz sine
- FS730/3: CMOS outputs
- FS730/4: 50 Ω broadband
- FS730/5: 75 Ω outputs
- Sine models: leveled approximately +13 dBm class outputs
- Channel isolation greater than 100 dB class
- Low additive phase noise
- BNC front-panel connectors

FS730 Characteristics / Specifications

PARAMETER	VALUE
Stanford Research FS7	Seven-channel Distribution Amplifier Overview The FS730 provides a benchmark one-input, seven-output distribution amplifier family designed for precision reference and clock distribution with model suffixes for 10 MHz, 5 MHz, CMOS, 50 Ω broadband, and 75 Ω outputs. Sine-wave variants deliver leveled outputs approximately +13 dBm class with greater than 100 dB isolation and low additive phase noise on BNC front-panel connectors.
Model	FS730 (suffix /1, /2, /3, /4, /5)
Manufacturer	Stanford Research Systems
Instrument Type	Seven-Channel Distribution Amplifier
Topology	1 input / 7 outputs
FS730/	50 Ω broadband distribution
Sine Output Level	Approximately +13 dBm class (sine models)
Isolation	Greater than 100 dB class
Phase Noise	Low additive phase noise (sine models)
Connectors	BNC front panel
Alias	FS730 Standard Operating Conditions Confirm model suffix matches required frequency and impedance. Drive input within rated level for selected variant. Allow warm-up for phase-noise-sensitive applications. Terminate unused outputs per manufacturer guidance when required.
FS730 base model requires /x suffix confirmation on faceplate	/1 through /5 are distinct hardware variants not interchangeable by software alone. Match output impedance to downstream loads. Alias FS730.
FS730/1	10 MHz sine
FS730/2	5 MHz sine
FS730/3	CMOS outputs
FS730/4	50 Ω broadband
FS730/5	75 Ω outputs
Sine models	leveled approximately +13 dBm class outputs

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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Model	FS730 (suffix /1, /2, /3, /4, /5)
Manufacturer	Stanford Research Systems
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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

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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.