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Data Sheet

August 13, 2026

STANFORD RESEARCH SYSTEMS

Stanford Research DG535 " Four Channel Digital Delay Generator

Interface: GPIB IEEE-488 (SH1 AH1 T6 L4 SR1 RL1 DC1 DT1) Dimensions: 8.5 in x 4.75 in x 14 in (WHD) Line Power: 70 W, 100/120/220/240 VAC, 50/60 Hz Specs from SRS DG535 catalog, product page, and DG535 manual. Catalog and manual differ slightly on variable-level accuracy; confirm on the unit. Check Opt. 02 HV and Opt. 03 TCXO. Stanford Research Systems DG535 Four Channel Digital Delay Generator The SRS DG535 is a four-channel digital delay and pulse generator. Channels A, B, C, and D delay from an internal or external trigger by 0 to 999.999999999995 s with 5 ps resolution. Typical channel-to-channel jitter is 50 ps (T0 to any output: 50 ps + $1e-8 \times \text{delay}$). Front-panel BNCs provide TTL, ECL, NIM, or variable levels from -3 V to +4 V into 50 ohm or high-Z. Optional Opt. 02 rear high-voltage outputs and Opt. 03 1 ppm TCXO extend the instrument.



MODEL

**Stanford Research
Systems DG535**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

DG535

LISTING

<https://aumictechlabs.com/products/dg535-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Stanford Research Systems DG535 is a four-channel digital delay generator engineered for applications demanding precise timing and ultra-low jitter. It generates four independent delay outputs (A, B, C, D) and two independent pulse outputs (AB, -AB, CD, -CD) with delay ranges from 0 to 999.999,999,999,995 seconds and 5 ps resolution. Channel-to-channel jitter is typically 50

ps RMS, while RMS jitter from external trigger to any output is less than $100 \text{ ps} + (10^{-8} \times \text{delay})$. The instrument supports internal trigger rates from 1 mHz to 1 MHz, external triggering, single-shot and burst modes, and AC line synchronization. Output impedance is selectable (50 Ω or high impedance) with TTL, ECL, NIM, or variable output levels. Front-panel BNC connectors deliver rise times of 2 to 3 ns and fall times of 100 ps maximum. An optional $\pm 32 \text{ V}$ output module (Option 02) provides rear-panel outputs at 1 kHz repetition rate. The standard timebase uses a 25 ppm crystal oscillator; an optional 1 ppm TCXO (Option 03) is available. External 10.0 MHz reference input is supported. Designed for laser synchronization, high-speed data acquisition, and automated testing environments demanding timing accuracy and reliability.

Features & description

From manufacturer datasheet

Features

- Four independent delays plus T0; AB and CD pulse pairs • 5 ps delay resolution; 1500 ps + timebase errorxdelay accuracy • Insertion delay about 85 ns (external trigger to T0) • Variable amplitude/offset 10 mV resolution, 4 V maximum transition • GPIB IEEE-488 standard • Optional +/-32 V rear outputs (Opt. 02) and 1 ppm TCXO (Opt. 03)

DG535 Characteristics / Specifications

PARAMETER	VALUE
Model	DG535
Manufacturer	Stanford Research Systems
Instrument Type	Four Channel Digital Delay and Pulse Generator
Alias	DG535; SRS DG535
Delay Channels	four independent outputs A, B, C, and D Delay Range: 0 to 999.999999999995 seconds
Delay Resolution	5 ps
Delay Accuracy	1500 ps + timebase error times delay
Standard Timebase	25 ppm crystal oscillator
External Timebase	10.0 MHz reference input
RMS Jitter T0 to Output	50 ps + delay x 1e-8
RMS Jitter Ext Trig to Output	60 ps + delay x 1e-8
Trigger Delay Typical	85 ns (external trigger to T0)
Internal Rate	single shot, 0.001 Hz to 1.000 MHz, or line
Rate Resolution	0.001 Hz below 10 Hz, otherwise 4 digits
Rate Jitter	1:10000
Rate Settling	less than 2 seconds for any rate change
Burst Mode	2 to 32766 pulses per burst at integer multiples 4 to 32767 of the trigger period
External Trigger Rate	DC to 1/(1 us + longest delay)
External Trigger Threshold	+/-2.56 VDC
Trigger Threshold Resolution	10 mV
Trigger Slope	rising or falling edge
Trigger Impedance	1 MOhm + 40 pF or 50 ohm
Output Load	50 ohm or high impedance
Output Rise Time	2 to 3 ns typical

PARAMETER	VALUE
Output Slew Rate	1 V/ns
Overshoot	less than 100 mV + 10 % of pulse amplitude
TTL Levels	0 to 4 VDC, normal or inverted
ECL Levels	-1.8 to -0.8 VDC, normal or inverted
NIM Levels	-0.8 to 0.0 VDC, normal or inverted
Variable Level Range	offset and amplitude between -3 VDC and +4 VDC, 10 mV resolution, 4 V maximum step
Level Accuracy Catalog	+/- (50 mV + 3 % of pulse amplitude)
Level Accuracy Manual	100 mV + 5 % of pulse amplitude
Outputs Present	T0, A, B, C, D, AB, -AB, CD, -CD
Interface	GPIB IEEE-488 (SH1 AH1 T6 L4 SR1 RL1 DC1 DT1)
Command Buffer	256 characters
Display	20 character back-lit LCD
Dimensions	8.5 in x 4.75 in x 14 in (WHD)
Weight	10 lbs
Line Power	70 W, 100/120/220/240 VAC, 50/60 Hz Notes Specs from SRS DG535 catalog, product page, and DG535 manual. Catalog and manual differ slightly on variable-level accuracy; confirm on the unit. Check Opt. 02 HV and Opt. 03 TCXO.
Rise Time	2 to 3 ns typical

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	
Technical Specifications	
PARAMETER	VALUE
Model	DG535
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Instrument Type	Four Channel Digital Delay and Pulse Generator
Alias	DG535; SRS DG535
Delay Channels	four independent outputs A, B, C, and D
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Standard Timebase	25 ppm crystal oscillator
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PARAMETER	VALUE
Model	DG535
Manufacturer	Stanford Research Systems
Instrument Type	Four Channel Digital Delay and Pulse Generator
Alias	DG535; SRS DG535
Delay Channels	four independent outputs A, B, C, andDDelay Range: 0 to 999.999999999995 seconds
Delay Resolution	5 ps
Delay Accuracy	1500 ps + timebase error times delay
Standard Timebase	25 ppm crystal oscillator
Optional Timebase: 1 ppm TCX0 (Opt. 03)	
Specifications	
PARAMETER	VALUE
External Timebase	10.0 MHz reference input
RMS Jitter T0 to Output	50 ps + delay x 1e-8

PARAMETER	VALUE
RMS Jitter Ext Trig to Output	60 ps + delay x 1e-8
Trigger Delay Typical	85 ns (external trigger to T0)
Internal Rate	single shot, 0.001 Hz to 1.000 MHz, or line
Rate Resolution	0.001 Hz below 10 Hz, otherwise 4 digits
Rate Jitter	1:10000
Rate Settling	less than 2 seconds for any rate change
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External Trigger Rate	DC to 1/(1 us + longest delay)
External Trigger Threshold	+/-2.56 VDC
Trigger Threshold Resolution	10 mV
Trigger Slope	rising or falling edge
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TTL Levels	0 to 4 VDC, normal or inverted
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NIM Levels	-0.8 to 0.0 VDC, normal or inverted
Variable Level Range	offset and amplitude between -3 VDC and +4 VDC, 10 mV resolution, 4 V maximum step
Level Accuracy Catalog	+/- (50 mV + 3 % of pulse amplitude)
Level Accuracy Manual	100 mV + 5 % of pulse amplitude
Outputs Present	T0, A, B, C, D, AB, -AB, CD, -CD

Option 02 Rear Amplitude: typically 8x front-panel at 1 kHz; 1 us pulses; reduced 2 V/mA additional average current

Specifications

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Line Power	70 W, 100/120/220/240 VAC, 50/60 Hz

Notes
Specs from SRS DG535 catalog, product page, and DG535 manual. Catalog and manual differ slightly on variable-level accuracy; confirm on the unit. Check Opt. 02 HV and Opt. 03 TCX0.

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.