Small Instrumentation Modules

SIM980 — Analog summing amplifier (4-channel)



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- Four summing inputs
- ±10 V operating range
- 1 MHz bandwidth
- Low crosstalk (-80 dB)
- •<100 µV input offset</p>
- High slew rate





\$995

• SIM980 ... \$995 (U.S. list)

SIM980 Summing Amplifier

The SIM980 Summing Amplifier has four input channels that can be added or subtracted from each other. The *output* noise is less than 60 nV/ \sqrt{Hz} , and crosstalk between channels is less than -80 dB. With a bandwidth of 1 MHz, a slew rate of 40 V/ μ s, and input offsets that are trimmed to $\pm 100 \mu$ V, the SIM980 is extremely useful in many analog applications.

The digital control circuitry in the SIM980 is designed with SRS's special clock-stopping architecture in which the microcontroller is turned on only when switch settings are being changed. This guarantees that no digital noise contaminates low-level analog signals.

Specifications

Number of inputs
Function
Gain
Impedance
Bandwidth
Output noise

4 Inverting, non-inverting or off $1 \times$ $1\,M\Omega$ DC to 1 MHz 60 nV/√Hz @ 1 kHz

Crosstalk	-80 dB @ 1 kHz
Offset	$\pm 100 \mu V$ (after 5 min. warm up)
Max. input & output	±10 V
Input slew rate	40 V/µs
THD	0.01 % (80 dB) @ 1 kHz
Output slew rate	75 V/µs
Operating temperature	0 °C to 40 °C, non-condensing
Interface	Serial via SIM interface
Connectors	BNC (5 front-panel, 1 rear-panel)
	DB15 (male) SIM interface
Power (max.)	Powered by SIM900 Mainframe, or
	by user-provided DC power supply
	$(\pm 15 \text{ V and } +5 \text{ V})$
Dimensions, weight	1.5" × 3.6" × 7.0" (WHD), 1.5 lbs.
Warranty	One year parts and labor on defects
	in materials and workmanship

Ordering Information

SIM980 Summing amplifier



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