## **Small Instrumentation Modules**

SIM980 — Analog summing amplifier (4-channel)

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

• 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/ $\sqrt{\text{Hz}}$ , and crosstalk between channels is less than -80 dB. With a bandwidth of 1 MHz, a slew rate of 40 V/ $\mu$ 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 4

Function Inverting, non-inverting or off

Gain 1×
Impedance 1 MΩ
Bandwidth DC to 1 MHz
Output noise  $60 \, \text{nV} / \text{Hz} \, (@ \, 1 \, \text{kHz})$ 

Crosstalk –80 dB @ 1 kHz

Offset  $\pm 100 \,\mu\text{V}$  (after 5 min. warm up)

Max. input & output  $\pm 10 \text{ V}$ Input slew rate  $\pm 40 \text{ V/}\mu\text{s}$ 

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  $(\pm 15 \text{ V} \text{ and } \pm 5 \text{ V})$ 

Dimensions, weight 1.5" × 3.6" × 7.0" (WHD), 1.5 lbs.

One year parts and labor on defects in materials and workmanship

**Ordering Information** 

IM980 Summing amplifier \$995



phone: (408)744-9040 www.thinkSRS.com