

# SIM980

## Технические характеристики

### По вопросам продаж и поддержки обращайтесь:

Алматы (7273)495-231	Казань (843)206-01-48	Новокузнецк (3843)20-46-81	Смоленск (4812)29-41-54
Архангельск (8182)63-90-72	Калининград (4012)72-03-81	Новосибирск (383)227-86-73	Сочи (862)225-72-31
Астрахань (8512)99-46-04	Калуга (4842)92-23-67	Омск (3812)21-46-40	Ставрополь (8652)20-65-13
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Вологда (8172)26-41-59	Липецк (4742)52-20-81	Рязань (4912)46-61-64	Ульяновск (8422)24-23-59
Воронеж (473)204-51-73	Магнитогорск (3519)55-03-13	Самара (846)206-03-16	Уфа (347)229-48-12
Екатеринбург (343)384-55-89	Москва (495)268-04-70	Санкт-Петербург (812)309-46-40	Хабаровск (4212)92-98-04
Иваново (4932)77-34-06	Мурманск (8152)59-64-93	Саратов (845)249-38-78	Челябинск (351)202-03-61
Ижевск (3412)26-03-58	Набережные Челны (8552)20-53-41	Севастополь (8692)22-31-93	Череповец (8202)49-02-64
Иркутск (395)279-98-46	Нижний Новгород (831)429-08-12	Симферополь (3652)67-13-56	Ярославль (4852)69-52-93
Россия (495)268-04-70	Киргизия (996)312-96-26-47	Казахстан (7172)727-132	

# Small Instrumentation Modules

SIM980 — Analog summing amplifier (4-channel)

- Four summing inputs
- $\pm 10$  V operating range
- 1 MHz bandwidth
- Low crosstalk ( $-80$  dB)
- $< 100$   $\mu$ V input offset
- High slew rate



## 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 $\times$
Impedance	1 M $\Omega$
Bandwidth	DC to 1 MHz
Output noise	60 nV/ $\sqrt{\text{Hz}}$ @ 1 kHz

Crosstalk	$-80$ dB @ 1 kHz
Offset	$\pm 100$ $\mu$ V (after 5 min. warm up)
Max. input & output	$\pm 10$ V
Input slew rate	40 V/ $\mu$ s
THD	0.01% (80 dB) @ 1 kHz
Output slew rate	75 V/ $\mu$ s
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 ( $\pm 15$ V and +5 V)
Dimensions, weight	1.5" $\times$ 3.6" $\times$ 7.0" (WHD), 1.5 lbs.
Warranty	One year parts and labor on defects in materials and workmanship

# Small Instrumentation Modules

SIM900 Series — Product overview



## SIM900 Series

- SIM mainframe
- Analog PID controller
- AC Resistance bridge
- Bessel/Butterworth filters
- Preamplifiers
- Temperature monitors
- Analog signal conditioning
- Isolated voltage source
- Octal 4-wire multiplexer
- Quad digital voltmeter
- Rubidium frequency standard

SIM — Small Instrumentation Modules — is a compact test and measurement platform for a wide range of applications. Unlike other modular systems, SIM offers complete front-panel as well as remote operation, allowing you to choose between manual and computer control. Up to eight instruments share the same mainframe which provides power, clock synchronization, communications, and module status. For additional versatility, you can cascade mainframes or other RS-232 instruments, and even operate modules outside the mainframe.

With SIM, you configure precision measurement and control systems, achieving the exact functionality you need while avoiding the cost of unnecessary features.

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