Small Instrumentation Modules

SIM964 — 1 MHz analog limiter

- **Settable upper & lower limits (±10 V)**
- **10 mV resolution**
- **1 MHz bandwidth**
- **TTL outputs for limit detecting**
- **High slew rate**

SIM964 Analog Limiter

The SIM964 Analog Limiter provides upper and lower voltage limits for conditioning dynamic signals. Limits are set between ±10 V with 10 mV resolution. Two rear-panel TTL signals are activated when upper or lower limits are exceeded. The SIM964 uses SRS's clock-stopping architecture design to eliminate digital noise artifacts. The low output noise and low harmonic distortion of the SIM964 make it ideal for many applications.

Specifications

Limit settings	±10 V (both upper and lower)
Resolution	10 mV
Bandwidth	1 MHz
Limit type	Soft limit (100 mV range)
Input impedance	1 MΩ
Output noise	<400 µVrms
THD	0.01 % (80 dB) at 1 kHz
Slew rate	20 V/µs

Limit detect	TTL level signals (rear-panel BNC connectors) are high when upper or lower limits are exceeded.
Operating temperature	0 °C to 40 °C, non-condensing
Interface	Serial via SIM interface
Connectors	BNC (2 front, 2 rear)
	DB15 (male) SIM interface
Power	Powered by SIM900 Mainframe, or by user-provided DC power supply (±15 V and +5 V)
Dimensions	1.5" × 3.6" × 7.0" (WHD)
Weight	1.5 lbs.
Warranty	One year parts and labor on defects in materials and workmanship

Ordering Information

SIM964   Programmable analog limiter

SRS **Stanford Research Systems**