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 ... $1195 (U.S. list)**

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**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**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limit settings</td>
<td>±10 V (both upper and lower)</td>
</tr>
<tr>
<td>Resolution</td>
<td>10 mV</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>1 MHz</td>
</tr>
<tr>
<td>Limit type</td>
<td>Soft limit (100 mV range)</td>
</tr>
<tr>
<td>Input impedance</td>
<td>1 MΩ</td>
</tr>
<tr>
<td>Output noise</td>
<td>&lt;400 µVRms</td>
</tr>
<tr>
<td>THD</td>
<td>0.01 % (80 dB) at 1 kHz</td>
</tr>
<tr>
<td>Slew rate</td>
<td>20 V/μs</td>
</tr>
</tbody>
</table>

**Ordering Information**

| SIM964 Programmable analog limiter | $1195 |

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- **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

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