



## Features

**SMP2104 10 SPST 20 Amp Solid State Power Switch**

10 SPST 60 VDC, 20 A DC Solid State Relays

Designed for Power Switch Applications Requiring Unlimited Relay Life Cycles

Provides for Hot and Cold Power Switching

Can Handle In-rush Currents of < 70 A dc

Fail-safe Interrupt Input on Front Panels for Emergency Safety Conditions

Combine with Other SMP Modules within a Single or Double Slot VXI Card

## 20 A dc Solid State Power Switch

### Overview

The SMP2104 is a polarized solid state power switch, with ten 20 A SPST. All relays are independently controllable. Up to twenty 20 A dc SPST solid state relays can be accommodated in a SMP1100 base unit for maximum density, or mixed and matched with other SMIP//™ cards for flexibility.

As with all our 20 A / 30 A power modules, the SMP2104 may be installed in the SMP1100 single wide base unit only. Applications for the module include switching of signals with large in-rush currents (< 70 A dc), as well as providing unlimited dc switch life and high-speed switching for manufacturing environments.

Since these modules typically switch power to the UUT or interface, a fail-safe interrupt input line is provided on the front panel that can open all relays automatically if a fault condition occurs. This approach instantly removes all power to the UUT or interface.

### Specifications

<b>Maximum Switching Voltage:</b>	60 V dc Resistive
<b>Maximum Switching Current:</b>	20 A dc at < 60 °C
<b>Maximum Switching Power:</b>	1200 W dc Resistive
<b>Minimum Contact Rating:</b>	Dry Switch
<b>Path Resistance:</b>	<0.05 Ω
<b>Isolation:</b>	
@25 °C	< 25 μV leakage at 60 V
@60 °C	< 150 μV leakage at 60 V
<b>Maximum Thermal Offset Per Channel (HI-LO):</b>	<25 μV
<b>Rated Switch Operations:</b>	
No Load:	Unlimited
Rated Load:	Unlimited
<b>Switching Time:</b>	<2 ms

