

## Power Switch Plug-In Module

## 20 Channels of SPST High-Power Switching

- Ideal for Switching AC or DC Power

Switches Up to 13 A
Interface for External "Emergency Reset" Switch to Open All Channels

Standard Adapt-a-Switch ${ }^{\circledR}$ Plug-in Design for Ease of Replacement

Racal Instruments $1260-120$ is a 20 -channel, SPST (Form A) high-power, plug-in switch card for the Adapt-a-Switch $®$ carrier. It installs easily into the Adapt-a-Switch VXIbus Carrier, Racal Instruments 1260-100, or Racal Instruments 1256 GPIB Switching Mainframe. Please refer to the 1260100 or 1256 data sheet for specifications and product features.

Each channel of the 1260-120 can switch up to 13 A, 250 VAC or 10 A, 125 VDC; its switching capability makes it the ideal solution for applications requiring high-current switching of AC power, DC power supplies, and AC or DC current sources.

To ensure safe switching in high-current applications, an external "Emergency Reset" switch may be connected to the front-panel connector of the 1260-120 to provide the ability to instantly open all channels on the switch card, or to open all channels on all cards connected to the same Option 01T.

As all relays on the 1260-120 are electromechanical, all inputs/outputs are interchangeable to meet the test requirements.

Mating front-panel connectors, complete with pins, are included with the 1260-120. The Option 01T interface controls the 1260-120, using both register-based and message-based operation. Refer to the Option 01T data sheet for product specifications and features such as include, exclude, and scan lists; relay coil-current monitoring; and user-defined path names and reset states.

The Adapt-a-Switch series includes VXIplug\&play support for WIN95/98/ME/NT/2000/XP operating systems, including drivers for LabWindows/CVI and LabVIEW.

## 1260-120 PRODUCT SPECIFICATIONS

## INPUT

Maximum Switching Voltage 125 VDC or 250 VAC
Maximum Switching Current 10 ADC or 13 AAC
Maximum Switching Power 300 W, 200 VA

## DC PERFORMANCE

Path Resistance
$<200 \mathrm{~m} \Omega$
Insulation Resistance
$10^{9} \Omega$
Thermal EMF
$<50 \mu \mathrm{~V}$

AC PERFORMANCE (into 5 0 $\Omega$ )
Bandwidth ( -3 dB )
Sm. Sig: 50 MHz
Power: 400 Hz
Insertion Loss (-3 dB)
1 kHz: -3 dB
Isolation (50 $\Omega$ )
$1 \mathrm{kHz}:>100 \mathrm{~dB}$
Crosstalk (50 $\Omega$ ) 1 kHz : < 100 dB

## Capacitance

Channel-Chassis: < 10 pF
Open Channel: < 200 pF

Adapt-a-Switch ${ }^{\circledR}$ Plug-in
INTERFACE DATA
Cooling
See 1260-100 cooling data
Power Requirements
+5 VDC at 150 mA plus 40 mA per energized relay (1A max.)

## ENVIRONMENTAL DATA <br> Temperature

Operating: $0^{\circ} \mathrm{C}$ to $55^{\circ} \mathrm{C}$
Storage: $-4^{\circ} \mathrm{C}$ to $75^{\circ} \mathrm{C}$

Relative Humidity
$85 \% \pm 5 \%$ non-condensing at $30^{\circ} \mathrm{C}$
Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.
Shock
$30 \mathrm{~g}, 11 \mathrm{~ms}, 1 / 2$ sine wave
Vibration
0.013 inch: P-P, $5-55 \mathrm{~Hz}$

Bench Handling
4-inch drop at $45^{\circ}$

EMC
Emissions
EN55011A with limits in accordance with EN50081-1
Immunity
IEC801-2, 3, 4 with limits in accordance with EN50082-1
Safety
EN61010-1

## RELIABILITY

Rated Switch Operations
Mechanical: 10,000,000 operations
Electrical: 100,000 at full rated load
Switching Time
$<10 \mathrm{~ms}$ (includes settling time)
MTBF
979,058 hours (MIL-HDBK-217E)
MTTR
$<5$ minutes

## MECHANICAL

Weight
13 oz (0.45kg)
Dimensions
4.5" H x 0.75 " W x 9.5" D

Front Panel I/O Interface Connector
20 pin rack \& panel

TYPICAL CHANNEL Insertion Loss


Crosstalk



HH:
$\subset \in$ the CE mak madatases that the product has completed and passed rigorous testing in the area of RF Emissions, Immunity to Electromagnetic Disturbances and complies with European electrical safety standards.

## ORDERING INFORMATION

## MODELIDESCRIPTION

Racal Instruments 1260-120, Adapt-a-Switch Module, 20 Channel SPST, 10A
Racal Instruments 20 pin Mating Connector w/ pins
Racal Instruments 125820-pin Cable Assembly, 6ft., 14AWG

## PART NUMBER

407631 407660 407657

