

Racal 1260-112

## High Density DPDT Switch Plug-In



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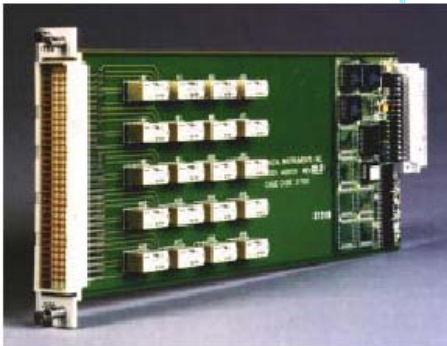
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## High Density DPDT Switch Plug-in

- ◆ **Ideal for Switching Digital Communication Signals**
- ◆ **Ideal for Switching Differential Analog Communication Signals**
- ◆ **120 MHz Bandwidth**
- ◆ **Ideal for General-Purpose High-Performance Signal Routing**
- ◆ **High Density**
- ◆ **Standard Adapt-a-Switch® Plug-in Design for Ease of Replacement**

Racal Instruments 1260-112 is a high-density, double-pole, double-throw (DPDT) switch plug-in designed for use in the VXI Adapt-a-Switch® carrier (Racal Instruments 1260-100 or 1260-101) and Racal Instruments 1256 GPIB/Ethernet Switching System. It quickly and easily plugs into the front of an Adapt-a-Switch® Carrier or the 1256 Switching System.

This DPDT switch plug-in is designed to switch high-speed differential signals. Its architecture is ideal for switching bi-directional buses and for configuring flexible, interchangeable solutions to varying test requirements.

The 1260-112 provides 20 DPDT relays that can be actuated individually or in groups using the "Include" feature. This feature permits multi-line buses such as RS-232 to be routed with a single command. This simplifies use of the switching system, reducing overall test development time and cost.

The Option-01T interface (for VXI) controls the 1260-112 using either register-based or message-based commands. The 1256 (for GPIB/Ethernet) supports message-based operations. Refer to the Option-01T/1256 literature for more information about product specifications and features such as include, exclude, scan lists, user-defined path names and reset states.

The Adapt-a-Switch® series includes VXI *plug&play* support of Win/98/NT/2000/XP frameworks, including drivers for LabWindows/CVI and LabVIEW.

# 1260-112 PRODUCT SPECIFICATIONS

## INPUT

### Maximum Switching Voltage

300 VDC or 300 VAC

### Maximum Switching Current

2 ADC or 2 AAC

### Maximum Switching Power

60 W, 1225 VA

## DC PERFORMANCE

### Path Resistance

<500 m $\Omega$

### Insulation Resistance

10<sup>9</sup>  $\Omega$

### Thermal EMF

<10  $\mu$ V

## AC PERFORMANCE (into 50 $\Omega$ )

### Bandwidth (-3 dB)

120 MHz

### Insertion Loss

10 MHz: <0.05 dB

10 MHz: <2.0 dB

### Isolation

300 kHz: <70 dB

1 MHz: <65 dB

10 MHz: <50 dB

### Crosstalk

300 kHz: <-75 dB

1 MHz: <-70 dB

1 MHz: <-45 dB

### Capacitance

Channel-to-Chassis: <100 pF

Channel-to-Channel: <50 pF

## INTERFACE DATA

### Cooling

See 1260-100 cooling data

### Power Requirements

+5 VDC at 150 mA plus 28 mA per energized relay (560 mA max.)

## ENVIRONMENTAL DATA

(MIL-T-28800E, Type III, Class 5)

### Temperature

Operating: 0° C to 55° C

Storage: -40° C to 75° C

### Relative Humidity

85%  $\pm$ 5% non-condensing,  $\leq$ 35° C

### Altitude

Operating: 10,000 ft.

Non-Operating: 15,000 ft.

### Shock

30 g, 11 ms, 1/2 sine wave

### Vibration

0.013 in.: (p-p), 5-55 Hz

### Bench Handling

4-inch drop at 45°

## EMC

### Emissions

EN55-11A with limits in accordance with EN50081-1

### Safety

EN61010-1

## RELIABILITY

### Rated Switch Operations

Mechanical: 1 x 10<sup>8</sup>

Electrical: 1 x 10<sup>6</sup> @ 50 V, 0.1 A

1 x 10<sup>6</sup> @ 10 V, 10 mA

### MTBF

>100,000 hrs.

### MTRR

<5 minutes

### Switching Time

<3 ms (includes settling time)

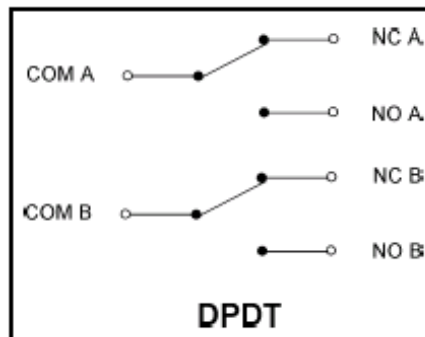
## MECHANICAL

### Weight

9 oz. (0.26 kg)

### Dimensions

4.5" H x 0.75" W x 9.5" D



**CE** The CE Mark indicates 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

### MODEL/DESCRIPTION

Racal Instruments 1260-112, Adapt-a-Switch® plug-in, 20 channels of DPDT

160-pin Connector Kit w/Strain Relief

160-pin Cable Assembly, 6 ft., 24 AWG

### PART NUMBER

407696

407664

407408-001

The EADS North America Test and Services policy is one of continuous development, consequently the equipment may vary in detail from the description and specification in this publication.



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