



High-Density, 5 A SPDT Plug-In Switch Card

- ◆ **High-Density, 24 SPDT (Form C) Channels**
- ◆ **Each Channel Switches up to 5 A at 30 VDC or 250 VAC**
- ◆ **Easily Configured Individual Relays**
- ◆ **Ideal for General Purpose Switching and Control of External Devices**
- ◆ **Plug-In Design for Rapid Expansion and Replacement**

Racal Instruments 1260-116 is a 24-channel, Form C, Single-Pole Double-Throw (SPDT) switch card for use in either a Racal Instruments 1260-100 VXI Carrier or Racal Instruments 1256 GPIB/RS-232 Switching Mainframe.

Custom relay switch networks may be configured with some of the relays while all remaining channels continue independent operations. This plug-in can switch up to 5 A making it useful to control external devices such as motors or loads. It can be used for applications requiring high-current switching of AC and DC power supplies as well as a current source.

If the 1260-116 is used with the 1260-100 Adapt-a-Switch™ platform, an Option 01T is required to communicate with the switch cards, and to provide message-based operation for ease of use and register-based operation for maximum speeds. If the switch card is used with the 1256 mainframe, no additional controller is required.

The Adapt-a-Switch line includes drivers for LabWindows/CVI and LabView for VXI applications. It also includes *VXIplug&play* compliant support for WIN95/98/NT/2000 platforms.

1260-116 PRODUCT SPECIFICATIONS

INPUT

Maximum Switchable Voltage

30 VDC or 250 VAC

Maximum Switchable Current

5 ADC or AAC

Maximum Switchable Power

150 W, 1250 VA output

DC PERFORMANCE

Path Resistance

< 200 m Ω

Isolation

> 10⁹ Ω

AC PERFORMANCE (INTO 50 Ω)

Bandwidth (-3 dB)

50 MHz

Insertion Loss

300 kHz: < .7 dB

1 MHz: < .5 dB

10 MHz: < .8 dB

Isolation

300 kHz: > 50 dB

1 MHz: > 40 dB

10 MHz > 20 dB

Crosstalk

300 kHz: < -50 dB

1 MHz: < -40 dB

10 MHz: < -20 dB

Capacitance

Channel-Chassis: < 5 pF

Open-Channel: < 30 pF

ENVIRONMENTAL DATA

Temperature

Operating: -20° C to 60° C

Storage: -40° C to 75° C

Relative Humidity

85% \pm 5% non-condensing at < 30° C

Altitude

Operating: 10,000 ft.

Non-Operating: 15,000 ft.

Shock

30 g, 11 ms, ½ sine wave

Vibration

0.013 in. pk-pk, 5-55 Hz

Bench Handling

4-inch drop at 45°

EMC

Emissions

EN61326, Class A, Table 3

Immunity

EN61326, Class A, Table 1

Safety

CE, EN61010-1

RELIABILITY

Rated Switch Operations

Mechanical: 5,000,000 operations

Electrical: 500,000 operation at full rated load (resistive)

MTBF

MIL-217FN2

979,058 hrs.

MTTR

< 5 min.

Switching Time

< 10 ms (includes settling time)

MECHANICAL

Weight

13 oz. (0.45 kg)

Dimensions

4.5" H x 0.75" W x 9.5" D

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-116, 24-Channel, Form C SPDT Power Switch

Spare 78-Pin Mating Connector

Spare Crimp Contact Pins (78 required)

Insertion / Removal Tool

PART NUMBER


407748

602461-078

602461-900

991041

Note: The 1260-116 uses a 78-pin interface connector, which is supplied with the card.

 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.

The EADS North America Defense 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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