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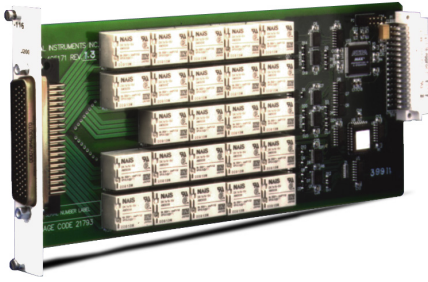
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# Racal Instruments™ 1260-116

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

The Racal Instruments™ 1260-116 is a 24-channel, Form C, Single-Pole Double-Throw (SPDT) switch plug-in for use in either a Racal Instruments™ 1260-100 Adapt-a-Switch™ VXI carrier or 1256 GPIB/RS-232 switching mainframe.

### Key Features

- 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

### Product Information

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 Racal Instruments™ 1260-100 Adapt-a-Switch™ platform, a Racal Instruments™ 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 VXI*plug&play* support for frameworks based on Microsoft Win32® application programming interface.

## Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

### Input

#### Maximum Switchable Voltage

- 30 VDC or 250 VAC

#### Maximum Switchable Current

- 5 ADC or AAC

#### Maximum Switchable Power

- 150 W, 1250 VA

### DC Performance

#### Path Resistance

- <200 mΩ

#### Isolation

- >10<sup>9</sup> Ω

### AC Performance (Into 50 Ω)

#### Bandwidth (-3 dB)

- 50 MHz

#### Insertion Loss

- 300 kHz: <0.7 dB
- 1 MHz: <0.5 dB
- 10 MHz: <0.8 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

#### Temperature

- Operating: -20° C to 60° C
- Storage: -40° C to 75° C

#### Relative Humidity

- 85% ±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 to 55 Hz

#### Bench Handling

- 4-inch drop at 45°

#### Emissions

- EN61326, Class A, Table 3

#### Immunity

- EN61326, Class A, Table 1

#### Safety

- CE, EN61010-1

#### 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)

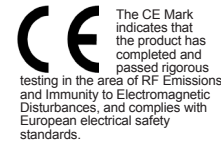
### Mechanical

#### Weight

- 13 oz (0.45 kg)

#### Dimensions

- 4.5" H x 0.75" W x 9.5" D



## Ordering Information

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

When the 1260-116 is used in a VXI mainframe other than a 1256, a Racal Instruments™ Option 01T Smart Control Module must be installed in the mainframe's left-most slot.

### 407748 : Racal Instruments™ 1260-116

24-Channel Form C SPDT Power Switch Plug-In

#### Accessories:

OPT-405108-001 : Racal Instruments™ Option 01T Smart Card Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Card Module (not installed) with manual

602461-078 : Spare 78-Pin Mating Connector

602461-900 : Spare Crimp Contact Pin (78 required)

991041 : Insertion / Removal Tool



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