



## High-Power Reed Multiplexer Plug-In

- ◆ **1x23 Two-wire, Dry Reed Relay Multiplexer**
- ◆ **Switches up to 1000 VDC/VAC (pk-pk)**
- ◆ **Carry or Hot Switch 2 Amps**
- ◆ **Ideal for High-Voltage/Current Switching up to 60W**
- ◆ **Standard Adapt-a-Switch® Plug-In Designed for Ease of Replacement**
- ◆ **One Million Operations at Full-Rated Load**

Racal Instruments 1260-132 is a high-voltage/current-dry reed relay DPST 1x23 multiplexer that is rated for 1,000,000 operations at a 60W load.

This card is optimized for high-voltage/current/density switching applications, and can be mixed and matched with other cards in the 1260-1xx family to create application-specific configurations.

The 1260-132, like all 1260-1XX series cards, can be used in either the 1260-100 Adapt-a-Switch® Carrier for VXIbus or the 1256 Switching Chassis for GPIB/RS232 applications. Two-wire multiplexers up to 1x138 can be configured in the VXI 1260-100 and up to 1x184 using the 1256.

When used with Racal Instruments 1260-100 Adapt-a-Switch Carrier, the 1260-132 requires an Option 01T to communicate with the switch cards. This option additionally provides message-based operation for ease-of-use and register-based operation for maximum speeds. When used with the 1256 mainframe, no additional controller is required.

Racal Instruments 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

# 1230-132 PRODUCT SPECIFICATIONS

## INPUT

### Maximum Switching Voltage

1000 VDC/VAC (pk-pk)

### Maximum Switching Current

2 ADC or 2 AAC

### Maximum Switching Power

60 W

### Minimum Breakdown Voltage

1.5 KV

## DC PERFORMANCE

### Initial Path Resistance

≤ 500 mΩ

### Insulation Resistance

≥ 10<sup>9</sup> Ω

### Thermal EMF

≤ 40 μV

## AC PERFORMANCE

### Bandwidth

≥ 5 MHz

### Insertion Loss

≤ 0.2 dB to 1 MHz

≤ 0.5 dB to 5 MHz

### Isolation

≥ 60dB to 1 MHz

≥ 30dB to 10 MHz

### Capacitance

≤ 150 pF Signal to Chassis

≤ 10 pF Open Channel

## INTERFACE DATA

### Cooling

See 1260-100 or 1256 Cooling data

### Power Requirements

+5VDC at 1.5 Amps Max

## ENVIRONMENTAL DATA

### Temperature

Operating: 0°C to 55°C

Storage: -40°C to 75°C:

### Relative Humidity

85% ±5% non-condensing, ≤ 35°C

### Altitude

Operating: 10,000 ft.

Non-Operating: 15,000

### Shock

30 g, 11 ms, 1/2 sine wave

### Vibration

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

### Bench Handling

4-inch drop at 45°

## EMC

### Emissions/ Immunity

EN61326:1997+A1:1998

## SAFETY

### EN61010-1:1993+A2:1995

## RELIABILITY

### Switching Time

≤ 2 ms (includes settling time)

### Rated Switch Operations

Electrical: 1,000,000 typical at 60W resistive

Mechanical: 100,000,000 typical

### MTBF

≥ 300,000 hours (MIL-STD-217E)

### MTTR

≤ 5 min

## MECHANICAL

### Weight

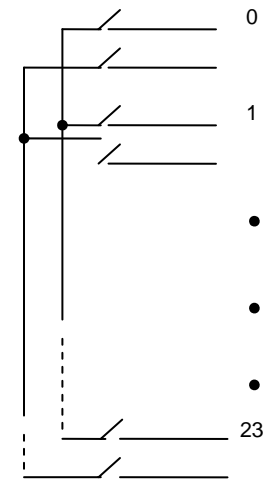
14.75 oz. (0.42 kg.)

### Dimensions

4.5" H x 0.75"W x 9.5" D

### Front Panel I/O Interface Connector

1-48 pin DIN



1x23, 2 Wire Multiplexer

**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 1260-132, Adapt-a-Switch Module, 1x23 Two Wire High Power Reed Multiplexer

48-pin Connector Kit w/pins

Spare Pins

### PART NUMBER

407822

407664-001

602258-900

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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