



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

≥ 10⁹ 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

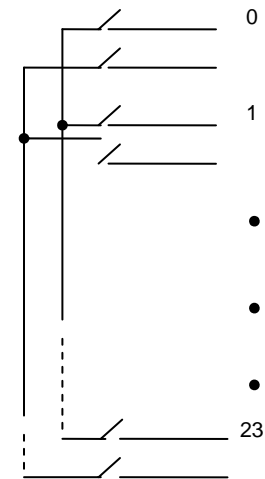
14.75 oz. (0.42 kg.)

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.



EADS North America Defense Test and Services
1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com