

Racal 1260-131B

## High-Density Multiplexer Plug-In



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## High-Density Multiplexer Plug-In

- ◆ **Twenty-Six SP4T's**
- ◆ **200 MHz Bandwidth**
- ◆ **Switches up to 2 A**
- ◆ **Standard Adapt-a-Switch® Plug-In Designed for Ease of Replacement**
- ◆ **Ideal for Single-ended Audio, Video, Telecom, or General-Purpose Switching**

Racal Instruments 1260-131A/B is a general-purpose, SP4T binary tree with a 200MHz bandwidth (-3dB). The 1-Amp "A" version is for lower density/cost. It has 10 channels of SP4T and uses a low cost IDC style DIN connector, so the interface cabling can be either crimp and poke or ribbon style. The 2 Amp "B" version is for higher density applications and it has 26 channels of SP4T.

Designed for the Adapt-a-Switch® platform, this plug-in installs easily and directly from the front panel into the Adapt-a-Switch® VXIbus Carrier, Racal Instruments 1260-100 or 1260-101, or Racal Instruments 1256 GPIB/Ethernet Switching System. Please refer to the corresponding literature for specifications and product features.

When multiple 1260-131 units are used in the 1260-100, up to 156 SP4T channels are available, and when used in the 1256 switching system up to 208 SP4T channels are available. The 1260-131A/B is ideal for general purpose switching or can be mixed and matched with other cards in the 1260-1XX family to create application specific configurations.

Racal Instruments Option-01T interface (for VXI) controls the 1260-131A/BA 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

Racal Instruments Adapt-a-Switch® series includes VXIplug&play support of WIN98/NT/2000/XP frameworks, including drivers for LabWindows/CVI and LabVIEW for VXI applications.

# 1260-131A/B PRODUCT SPECIFICATIONS

## INPUT

### Maximum Switching Voltage

300 VDC or 300 VAC

### Maximum Switching Current

2 ADC or 2 AAC, 1260-131B

1 ADC or 1 AAC, 1260-131A

### Maximum Switching Power

60 W, 125 VA, 1260-131B

30 W, 125 VA, 1260-131A

## DC PERFORMANCE

### Initial Path Resistance

$\leq 400 \text{ m}\Omega$

### Thermal EMF

$\leq 6 \text{ }\mu\text{V}$

### Insulation Resistance

$\geq 109 \text{ }\Omega$

## AC PERFORMANCE

### Bandwidth (-3 dB, 50 $\Omega$ )

$\geq 200 \text{ MHz}$

### Insertion Loss (50 $\Omega$ )

1 MHz:  $\leq 0.1 \text{ dB}$

10 MHz:  $\leq 0.2 \text{ dB}$

### Isolation (50 $\Omega$ )

1 MHz:  $\geq 60 \text{ dB}$

10 MHz:  $\geq 40 \text{ dB}$

### Crosstalk (50 $\Omega$ )

1 MHz:  $\leq -60 \text{ dB}$

10 MHz:  $\leq -40 \text{ dB}$

### Capacitance

Channel-Ground:  $\leq 60 \text{ pF}$

Open Channel:  $\leq 5 \text{ pF}$

## INTERFACE DATA

### Cooling

See 1260-100 or 1256 Cooling data

### Power Requirements

+5VDC at 150 mA plus 30 mA per energized relay (1.7 A max)

## ENVIRONMENTAL DATA

### Temperature

Operating: 0°C to 55°C

Storage: -40°C to 75°C

### Relative Humidity

85%  $\pm$ 5% non-condensing,  $\leq 30^\circ\text{C}$

### 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

EN61326:1997+A1:1998; Class A

## SAFETY

EN61010-1:1993+A2:1995

## RELIABILITY

### Switching Time

$\leq 3 \text{ ms}$  (includes settling time)

### Rated Switch Operations

Mechanical:  $1 \times 10^8$

Electrical:  $1 \times 10^6$  @ 50 V, 0.1 A

$1 \times 10^6$  @ 10 V, 10 mA

### MTBF (not including relays)

822,885 hours (MIL-STD-21/E)

### MTTR

$\leq 5 \text{ min}$

## MECHANICAL

### Weight

1260-131B: 9 oz. (0.26 kg.)

1260-131A: 6 oz. (0.17 kg.)

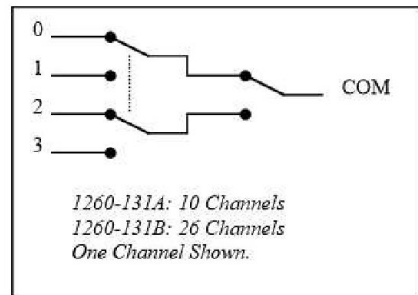
### Dimensions

4.5" H x 0.75"W x 9.5" D

### Front Panel I/O Interface Connector

1260-131B: 1-160 pin DIN

1260-131A: 1-64 pin DIN



**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 1260-131B, Adapt-a-Switch Module, 26-1x4 One-wire Muxes, 2A

64-pin DIN IDC Connector

64-pin DIN Crimp Connector Body

64-pin DIN Crimp Pins

160-pin Connector Kit w/pins

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

### PART NUMBER

407812-002

602004

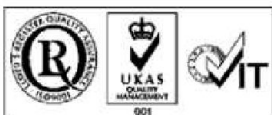
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