



## 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**  
≤ 400 mΩ

**Thermal EMF**  
≤ 6 μV

**Insulation Resistance**  
≥ 109 Ω

## AC PERFORMANCE

**Bandwidth** (-3 dB, 50 Ω)  
≥ 200 MHz

**Insertion Loss** (50 Ω)  
1 MHz: ≤ 0.1 dB  
10 MHz: ≤ 0.2 dB

**Isolation** (50 Ω)  
1 MHz: ≥ 60 dB  
10 MHz: ≥ 40 dB

**Crosstalk** (50 Ω)  
1 MHz: ≤ -60 dB  
10 MHz: ≤ -40 dB

## Capacitance

Channel-Ground: ≤ 60 pF  
Open Channel: ≤ 5 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% ±5% non-condensing, ≤ 30°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

≤ 3 ms (includes settling time)

### Rated Switch Operations

Mechanical: 1 x 10<sup>8</sup>

Electrical: 1 x 10<sup>6</sup> @ 50 V, 0.1 A

1 x 10<sup>6</sup> @ 10 V, 10 mA

### MTBF (not including relays)

822,885 hours (MIL-STD-217E)

### MTTR

≤ 5 min

## MECHANICAL

### Weight

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

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

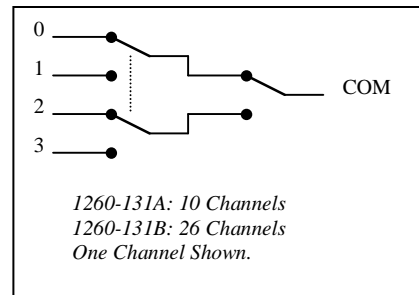
### Dimensions


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



 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 1260-131A, Adapt-a-Switch Module, 10-1x4 One-wire Muxes, 1A  
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

407812-001  
407812-002  
602004  
602159-064  
602159-900  
407664  
407408-001

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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