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RACAL INSTRUMENTS™ 1260-134



High-Density Multiplexer Plug-In

- **Sixteen 1X4, Two-Wire Scanner/Multiplexers**
- **100 MHz Bandwidth**
- **Switches up to 2 A**
- **Standard Adapt-a-Switch® Plug-In Designed for Ease of Replacement**
- **Ideal for Audio, Video, Telecom, or General-Purpose Switching**

Racal Instruments 1260-134 is a sixteen-channel, 1X4, 2-wire scanner/multiplexer switch card for use in either the 1260-100 or 1260-101 VXI Carrier or the Model 1256 GPIB/Ethernet Switching Mainframe.

The 1260-134 is ideal for use in audio, video, telecom, or general-purpose signal switching applications.

Each 1x4 multiplexer is independently controlled, enabling the user to connect any combination of channels to the common port. This configuration provides up to four identical outputs per mux with up to 2A current capability. A 4-wire 1x4 can also be achieved by using two 1x4 cells.

The 1260-134 installs easily and directly from the front panel into the Racal Instruments 1260-100 or the Racal Instruments 1256

As all relays on the 1260-134 are electromechanical, all inputs/outputs are interchangeable to meet the system's test requirements. Interface connectors are not provided with the 1260-134 and must be ordered separately; however, a 6-foot unterminated cable assembly is available as a standard option.

The Option-01T interface (for VXI) controls the 1260-134 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.

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

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1260-134 PRODUCT SPECIFICATIONS

INPUT

Maximum Switching Voltage
300 VDC or 300 VAC

Maximum Switching Current
2 ADC or 2 AAC

Maximum Switching Power
60 W, 125 VA

DC PERFORMANCE

Path Resistance
<500 m

Thermal EMF
<10 V

Insulation Resistance
10^9

AC PERFORMANCE

Bandwidth (-3 dB)
100 MHz

Insertion Loss
10 MHz: 0.5 dB
50 MHz: 1 dB

Isolation (50 Ω)
100 kHz: >50 dB
1 MHz: >40 dB

Crosstalk (50 Ω)
100 kHz: <-50 dB
1 MHz: <-40 dB

Capacitance
Channel-Chassis: <100 pF
Open Channel: <5 pF

INTERFACE DATA

Cooling
See 1260-100 cooling data

Power Requirements
+5 VDC at 150 mA plus 30 mA per energized relay (2 A max.)

ENVIRONMENTAL DATA

Temperature
Operating: 0^o C to 55^o C
Storage: -40^o C to 75^o C

Relative Humidity
85% ±5% non-condensing at $<30^o$ C

Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.

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^o

EMC

Emissions
EN55011A with limits in accordance with EN50081-1

Immunity
IEC801-2,3,4 with limits in accordance with EN50082-1

Safety
EN61010-1

RELIABILITY

Switching Time
<3 ms (includes settling time)

Rated Switch Operations
Mechanical: 1×10^8
Electrical: 1×10^6 @ 50 V, 0.1 A
1×10^6 @ 10 V, 10 mA

MTBF
749,095 hrs. (MIL-STD-217E)

MTTR
<5 min.

MECHANICAL

Weight
13 oz. (0.45 kg)

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

Front Panel I/O Interface Connector
160 pin DIN Connector

ORDERING INFORMATION

MODEL/DESCRIPTION	PART NUMBER
Racal Instruments 1260-134, Adapt-a-Switch Module, 16-1x4 Two-wire Muxes, 2A	407662
160-pin Connector Kit w/ Pins	407664
160-pin Cable Assembly, 6ft., 24 AWG	407408-001

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.

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
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