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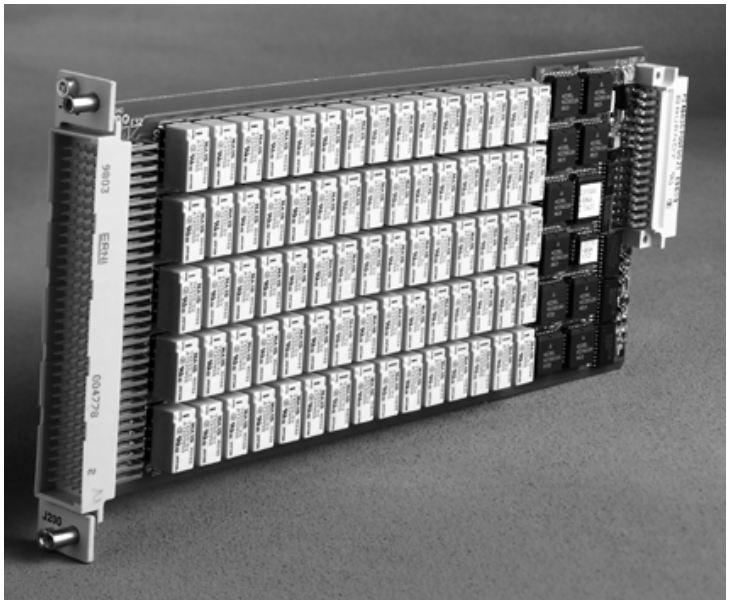
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Find the *Astronics / EADS / Racal 1260-138* at our website: *Click HERE*

PRELIMINARY

PRODUCT INFORMATION

High-Density Multiplexer Plug-in Card
Model 1260-138



- **Dynamically Configurable Using Eight 1x8's as Four 1x16's, Two 1x32's or One 1x64**
- **Selectable as 2 or 4-wire Multiplexers**
- **Expandable to 384 channels Using Analog Bus**
- **30MHz Bandwidth (1x8 Configuration)**
- **Switches Up to 2 Amps, 220VDC or 250VAC**
- **Standard Adapt-a-Switch™ Plug-in Designed for Ease of Replacement**

The 1260-138 is a high-density scanner and multiplexer plug-in card for the Adapt-a-Switch™ platform. It installs, easily and directly from the front panel, into the Adapt-a-Switch VXIbus Carrier, Model 1260-100. Please refer to the 1260-100 data sheet for specifications and product features.

Each 1x8 multiplexer is independently controlled enabling the user to connect any combination of channels to the common port, achieving up to eight identical outputs per mux with up to 2A, 250VAC or 220VDC. In addition, as each mux is linked via a switch, the 1260-138 can be dynamically configured as four 1x16's, two 1/x32's, one 1x64 mux or any combination of these. Up to six individual 1260-138 plug-ins can be linked using the analog bus to produce a multiplexer as large as 1x384. The interconnecting relays can configure the mux in either 2-wire or 4-wire configurations.

With its high density and versatility, the 1260-138 is the ideal solution for all applications requiring large switch requirements such as continuity testing, audio and telecomm applications, or wherever the final switch requirements are not fully defined.

As all relays on the 1260-138 are electromechanical, all inputs/outputs are interchangeable to meet the test requirements. Interface connectors are not provided with the 1260-138 and must be ordered separately; however, a six-foot unterminated cable assembly is available as a standard option. See the ordering information on the last page of this data sheet.

The Option 01T interface controls the 1260-138, using both register-based and message-based operation. Refer to the Option 01T data sheet for product specifications and features such as include, exclude, and scan lists; relay coil-current monitoring; and user-defined path names and reset states.

Adapt-a-Switch includes VXI*plug&play* support of WIN95/NT frameworks, including drivers for LabWindows/CVI and LabVIEW.

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1260-138 Specifications

INPUT

Maximum Switching Voltage
220VDC or 250VAC

Maximum Switching Current
2ADC or 2AAC

Maximum Switching Power
60W, 125VA

DC PERFORMANCE

Path Resistance
1x8 (2-wire): <1Ω
1x64 (2-wire): <1Ω

Insulation Resistance
$10^9\Omega$

Thermal EMF
1x8 (2-wire): <15µV
1x64 (2-wire): <20µV

AC PERFORMANCE (into 50Ω)

Bandwidth (-3dB)
1x8, 1x16 (2-wire): 30MHz (35MHz typ.)
1x64 (2-wire): 2MHz

Insertion Loss

Configuration	100kHz	1MHz	10MHz
1x8 (2-wire)	<0.1dB	<0.25dB	<1.7dB
1x16 (2-wire)	<0.1dB	<0.25dB	<2.0dB
1x64 (2-wire)			

Isolation (1x8)
100kHz: >40dB
1MHz: >35dB
10MHz: >40dB

Crosstalk
100kHz: <-55dB
1MHz: <-50dB
10MHz: <-40dB

Capacitance
1x8 (closed Chan.-Chassis): <50pF
1x8 (closed Chan. Hi-Lo): <120pF (50pF typ.)
1x8 (Open Chan. Hi-Lo): <50pF (20pF typ.)

Adapt-A-Switch Plug-in INTERFACE DATA

Cooling Requirements
See 1260-100 cooling data.

Power Requirements
+5VDC at 150mA plus 30mA per energized relay (2.3A max.)

ENVIRONMENTAL DATA

Temperature
Operating: 0°C to 55°C
Storage: -40°C to 75°C

Relative Humidity
85% ±5%, non-condensing at <30°C

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

Shock
30g, 11ms, ½ sine wave

Vibration
0.013inch P-P, 5-55Hz

Bench Handling
4-inchdrop at 45°

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
<10ms (includes settling time)

Rated Switch Operations
Mechanical: 100,000,000 operations
Electrical: 100,000 operation at full rated load

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

MTTR
<5 minutes

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

PRELIMINARY

ORDERING INFORMATION

Model	Description	Part Number
1260-138	Adapt-a-Switch High-Density Multiplexer Plug-in Module	405133
407664	160-pin Mating Connector with pins	407664
456673	Connector Bracket, Strain Relief	456673
407408-001	160-pin Cable Assembly, 6ft., 24 AWG	407408-001

Note: Each 126-138 uses one mating connector.

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

The Racal policy is one of continuous development and consequently the equipment may vary in detail from the description and specification in this publication.

RACAL INSTRUMENTS

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