

Racal 1260-22

High Power Switch Module



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High Power Switch Card

- ◆ **Configured as 8 each 1 x 2 and 6 each 1 x 4**
- ◆ **Switching for Power Supplies and Current Sources**
- ◆ **Switches up to 20A, AC or DC**
- ◆ **Interface for External "Emergency Reset" Switch to Open all Channels**
- ◆ **Configuration Jumpers to Combine Channels**
- ◆ **Provisions for Adding Shunt Contact Protection Element**

Racal Instruments 1260-22 is an 8 each 1 x 2 and 6 each 1 x 4 SPST, high-power switch module designed for switching and routing high current sources such as AC and DC power supplies in automated test systems. The 1260-22 switches currents up to 20A, AC or DC, and voltages up to 250VDC or 250VAC. Maximum power handling is 600WDC or 4800VA per channel.

The 1260-22 design reduces external components, configuration jumpers and fail-safe devices. Provisions for internal jumpers facilitate 1x2 and/or 1x4 multiplexer configurations, reducing external wiring. Surge suppressors install easily onto the module, simplifying system integration.

An external "Emergency Reset" switch may be connected to the front panel connector of the 1260-22. The external switch provides a way to instantly open all channels on the 1260-22, and all cards connected to the same Option 01T. This helps ensure safe switching in high-current applications.

The message-based and register-based Option 01T interface controls the 1260-22. Refer to the applicable Option 01T data sheet for specifications and product features such as include, exclude, and scan lists; relay coil-current monitoring; and user-defined path names and reset states.

1260-22 PRODUCT SPECIFICATIONS

INPUT PERFORMANCE

Maximum Switching Voltage

250 VAC, 250 VDC

Maximum Switching Current

20 AAC, 20 ADC

Maximum Switching Power

4800 VA, 600 W

Minimum Switching Power

1 AAC at 12 VAC, 1 ADC at 5 VDC

DC PERFORMANCE

Path Resistance

<100 mΩ

Insulation Resistance

>109 Ω

AC PERFORMANCE (into 50 W)

Bandwidth (-3 db)

>300 kHz

Insertion Loss (dB)

10 kHz: <0.02 dB

100 kHz: <0.1 dB

Isolation

10 kHz: >50 dB

100 kHz: >30 dB

Crosstalk (dB)

10 kHz: <-70 dB

100 kHz: <-50 dB

Capacitance

Open Channel: < 250 pf

Channel-Chassis: < 250 pf

VXIBUS INTERFACE DATA

Cooling Requirements (w/o Option 01T)

Airflow: 5.4 liters/sec

Backpressure: 0.5 mm H₂O

Peak Current at 65 Watts

+ 5 VDC at 600 mA

+ 5 VDC at 1.6 A with Option 01T

+ 24 VDC at 36 mA per energized relay (1.5 A max)

ENVIRONMENTAL DATA

Temperature Operating:

Operating: 0° C to +55° C

Storage: -40° C to +71° C

Humidity (non-condensing)

85 % ± 5 % at <35° C

Altitude

Operating: 10,000 ft.

Storage: 15,000 ft.

Shock

10 g, 11 ms, 1/2 sine wave

Vibration (non-operating)

0.013" pk-pk, 5-55 Hz

Bench Handling

4-inch drop 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

<15 ms

Rated Switch Operations

Mechanical: 10,000,000 operations

Electrical: 100,000 operations at full rated load

MTBF

400,255 hrs

MECHANICAL

Weight

Without Option 01T: 4 lbs. 3 oz. (2.1 kg)

With Option 01T: 4 lbs. 8 oz. (2.2 kg)

Dimensions

C-size, single-slot VXIbus module

Front Panel I/O Interface Connector

30-pin Positronic connector

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-22 Switch Module, 40-Channel, High Current

Racal Instruments 1260-22 Multiplexer, five 4 x 1 and ten 2 x 1

Racal Instruments 1260-22-S-1794, 8 each 1 x 2 and 6 each 1 x 4

Racal Instruments Option 01T Smart Card Module (installed)

30-pin Mating Connector for Cable

12 AWG Contact for Mating Connector

*One Option 01T must be ordered with switch card(s). Please specify the card on which the Option 01T will be installed

PART NUMBER

407630

407630-001

407630-S-1794

OPT-407531=001

602345

602346

 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.



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