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Find the *Astronics / EADS / Racal 1260-22* at our website: ***Click HERE***

RACAL INSTRUMENTS™ 1260-22



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.

EADS NORTH AMERICA DEFENSE

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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: 0º C to +55º C
Storage: -40º C to +71º C

Humidity (non-condensing)
85 % ± 5 % at <35º 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 45º

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	PART NUMBER
Racal Instruments 1260-22 Switch Module, 40-Channel, High Current	407630
Racal Instruments 1260-22 Multiplexer, five 4 x 1 and ten 2 x 1	407630-001
Racal Instruments 1260-22-S-1794, 8 each 1 x 2 and 6 each 1 x 4	407630-S-1794
Racal Instruments Option 01T Smart Card Module (installed)	OPT-407531=001
30-pin Mating Connector for Cable	602345
12 AWG Contact for Mating Connector	602346

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

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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