



- ◆ **64 Channels of SPDT Switching**
- ◆ **Switching for Power Supplies and Current Sources**
- ◆ **Switches up to 6A, AC or DC**
- ◆ **High density single VXI slot**
- ◆ **High Isolation Low Crosstalk**

High Density, 6A Power Switch Card 1260-16A

Racal Instruments 1260-16A is a 64-channel, SPDT, high isolation; low crosstalk switch module designed for switching and routing sources such as AC and DC power supplies in automated test systems. The 1260-16A switches currents up to 6 A, AC or DC, and voltages up to 110 VDC or 250 VAC.

The 1260-16A uses specialized layout techniques to achieve very high isolation and excellent crosstalk performance, making this module ideal for applications that require high signal integrity such as electronic functional testing or data acquisition.

The message-based and register-based Option 01T interface controls the 1260-16A. Refer to the 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.

An IVI-COM driver is also available for this module.

1260-16A PRODUCT SPECIFICATIONS

INPUT PERFORMANCE

Maximum Switching Voltage

250 V AC, 110 V DC

Maximum Switching Current

6 A AC, 6 A DC

Maximum Switching Power

1500 V A, 180 W

DC PERFORMANCE

Path Resistance

<200 m Ω (Initial)

<230 m Ω (EOL)

Insulation Resistance

>10⁹ Ω

AC PERFORMANCE (into 50 Ohm)

Bandwidth (-3 db)

>10 MHz

Insertion Loss

1MHz: < 0.25dB

10 MHz: < 2 dB

Isoation

1 MHz: >45 dB

10 MHz: >30 dB

Crosstalk

1 MHz: <-60 dB

10 MHz: <-40 dB

Capacitance

Open Channel: < 150 pf

Channel-Chassis: < 450 pf

VXIBUS INTERFACE DATA

Cooling Requirements (w/o Option 01T)

Airflow: 5.4 liters/sec

Backpressure: 0.5 mm H₂O

Maximum Overall Power Dissipation

80 W

Current Draw

+5 VDC at 0.25 A

+5 VDC at 1.15 A with Option 01T

+5 VDC at 40mA per energized relay

ENVIRONMENTAL DATA

Temperature

Operating: 0° C to +55° C

Non-operating: -40° C to +71° C

Humidity (non-condensing)

85 % \pm 5 % at <35° C

Altitude

Operating: 10,000 ft.*

Non-operating: 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°

* Operation at 15,000 feet requires de-rating of maximum overall power dissipation to 65 W.

EMC

Emissions

EN55011A with limits in accordance with EN50081-1

Immunity

IEC901-2,3,4 with limits in accordance with EN50082-1

Safety**

EN61010-1

Pollution Class 2

Impulse Withstand 1000 V

RELIABILITY

Switching Time

<15 ms

Rated Switch Operations

Mechanical: 10,000,000 operations

Electrical: 500,000 @250VAC/1.5A

500,000 @30VDC/1.5A

MTBF

With relays 329,990 hrs (25° C)

With relays 305,256 hrs (30° C)

(50% rated load, 0.1 cycle / hour)

MECHANICAL

Weight

Without Option 01T: 3.3 lbs. (1.5kg)

With Option 01T: 3.6 lbs. (1.64 kg)

Dimensions

C-size, single-slot VXIbus module

Front Panel I/O Interface Connector

4, 50 pin Positronic connector

** Certification Pending

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-16A/Switch Module, 64 Channel, 6A, SPDT

Racal Instruments Option 01T/Smart Card Module (installed)

Racal Instruments 50-pin Mating Connector for Cable

Racal Instruments Contact for Mating Connector

PART NUMBER

408012

OPT-407531-00

601855-050

601857

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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