RACAL INSTRUMENTS 1260-111

High-Power Reed Form A/B Plug-In

- **Twelve Form A and Twelve Form B Independent Dry-Reed Relays**
- **Up to One Million Operations at Full-Rated Load**
- **Switches up to 1000 VDC/VAC (pk-pk)**
- **I Carry- or Hot-Switch 2 Amps and up to 60W**
- **Ideal for High-Voltage/Current /Density Switching Systems**
- **Standard Adapt-a-Switch® Plug-In Designed for Ease of Replacement**

Racal Instruments 1260-111/A is a high-voltage/current-dry reed relay that is rated for 1,000,000 operations at a 60W load. This card is optimized for high-voltage/current switching applications, and can be mixed and matched with other cards in the 1260-1XX family to create application-specific configurations..

The 1260-111/A, like all 1260-1XX series cards, can be used in either the 1260-100 Adapt-a-Switch® Carrier for VXIbus or the 1256 Switching Chassis for GPIB/RS232 applications. Up to 72 form A/B relay channels will fit in a 1260-100 Carrier, while up to 96 will fit in a single 1256.

When used with the 1260-100 Adapt-a-Switch® carrier, the 1260-111 requires an Option 01T to communicate with the switch cards. This option additionally provides message-based operation for ease-of-use and register-based operation for maximum speeds. When used with the 1256 mainframe, no additional controller is required.

Racal Instruments Adapt-a-Switch® line includes drivers for LabWindows/CVI and LabView for VXI applications. It also includes VXIplug&play compliant support for WIN95/98/NT/2000 platforms

EADS NORTH AMERICA DEFENSE

1260-111 PRODUCT SPECIFICATIONS

INPUT

Maximum Switching Voltage
1000 VDC/VAC (pk-pk)

Maximum Switching Current
2 ADC or 2 AAC

Maximum Switching Power
60 W

Minimum Breakdown Voltage
1.5 V

DC PERFORMANCE

Initial Path Resistance
≤ 500 mΩ

Thermal EMF
≤ 40 µV

Insulation Resistance
$\geq 10^9\ \Omega$

AC PERFORMANCE

Bandwidth
≥ 60 MHz

Insertion Loss
≤ 0.1 dB to 1 MHz
.5 dB to 10 MHz

Isolation
≥ 40dB to 1 MHz
≥ 20dB to 10 MHz

Crosstalk
≤ -60dB to 1 MHz
≤ -30dB to 10 MHz

Capacitance
≤ 50 pF Signal to Chassis
≤ 15 pF Open Channel

INTERFACE DATA

Cooling
See 1260-100 or 1256 Cooling data

Power Requirements
+5 VDC at .75 A Max

ENVIRONMENTAL DATA

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

Relative Humidity
85% ±5% non-condensing, ≤ 35°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°

EMC

Emissions/Immunity
EN61326:1997+A1:1998

SAFETY

EN61010-1:1993+A2:1995

RELIABILITY

Switching Time
≤ 2 ms (includes settling time)

Rated Switch Operations
Electrical: 1,000,000 typical at 60W resistive
Mechanical: 100,000,000 typical

MTBF
≥ 300,000 hours (MIL-STD-217E)

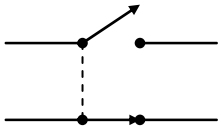
MTTR
≤ 5 min

MECHANICAL

Weight
12 oz. (0.34 kg.)

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

Front Panel I/O Interface Connector
1-48 pin DIN



12 - Form A Relays
12 - Form B Relays

1 Form A and 1 Form B Shown

Jumper shown for model 1260-111A only

ORDERING INFORMATION

MODEL/DESCRIPTION	PART NUMBER
Racal Instruments 1260-111A, Adapt-a-Switch Module, 12 Form A/B High-Power Reed Relay	407821
Racal Instruments 1260-111, Adapt-a-Switch Module, 12 Form A, 12 Form B High-Power Reed Relay	407821-001
48-pin Connector Kit w/pins	407664-001
Spare Pins	602258-900

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.

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