

# Racal Instruments™

# 1260-17/17A

## High-Density Switch Module

The Racal Instruments™ 1260-17 is an 80-channel, Form C (SPDT) switch module.

### Key Features

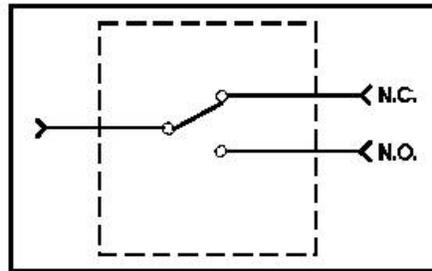
- Ideal for general-purpose switching up to 60 MHz
- Switches signals up to 1 A and 250 VDC or  $VAC_{rms}$
- Easily configured to meet user-defined network requirements
- Extremely high-density module – 80 SPDT switches

### Product Information

The 1260-17 is designed for general purpose switching and external device actuation. Each channel may be configured individually, or several channels may be linked to configure custom networks. The 1260-17 permits switching up to 1 A and 250 VDC or  $VAC_{rms}$  per channel. The large number of channels on this module allow a significant portion of any switching configuration to be realized in a single slot, thus saving valuable space.

Relay contacts are monitored to provide user selectable confidence checking. This gives you the additional assurance of proper relay operation.

The 1260-17 is controlled by the Racal Instruments™ Option 01 message-based interface or the Option 01T message-based and register-based interface. All 1260 control features explained on the Option 01 and Option 01T data sheets are available to this module.



80 independent relays 1 channel is shown

## Specifications

Note: The Astronics Test Systems policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

### Maximum Switchable Voltage (Terminal-Terminal or Terminal-Chassis)

- 250 VDC or  $VAC_{rms}$

### Maximum Switchable Current

- Per Channel: 1 A DC or  $AC_{rms}$

### Maximum Switchable Power

- Per Channel: 30 WDC, 62.5 VA

## DC Performance

### Path Resistance

- <0.5  $\Omega$

### Isolation

- >2 x 10<sup>9</sup>  $\Omega$

### Thermal EMF

- <10  $\mu V$

## AC Performance (Into 5 $\Omega$ )

### Capacitance

- Input to Output: <10 pF

### Bandwidth (-3 dB)

- >60 MHz

### Insertion Loss

- 100 kHz: <0.1 dB
- 1 MHz: <0.5 dB
- 10 MHz: <1.0 dB

### Isolation

- 10 MHz: <-30 dB

### Crosstalk

- 100 kHz: <-45 dB
- 1 MHz: <-40 dB
- 10 MHz: <-35 dB

## Interface

### Power Requirements ( $I_{PM}$ )

- +5 V: 0.4 A (2.8 A with Option 01/01T installed)

## Environmental

### MTBF

- 216,998 hrs

## Mechanical

### Weight

- 2.97 lb (1.34 kg) without Option 01/01T
- 3.25 lb (1.48 kg) with Option 01/01T

### Dimensions

- C-size, Single-slot VXIbus Module

### Cooling Requirements

- Without Option 01/01T
  - Airflow: 1.0 l/s
  - Backpressure: 0.05 mm H<sub>2</sub>O
- With Option 01/01T
  - Airflow: 2.0 l/s
  - Backpressure: 0.2 mm H<sub>2</sub>O



## Ordering Information

Notes: Compatible smart controllers: A smart card must be installed in the left-most slot of a set of 1260-xx series switch cards. There are two options:

- Option 01: Native command set. For use in previously designed switching systems that used the Option 01.
- Option 01T: SCPI command set. For use in new systems and previously designed systems that used the Option 01T.

The 1260-17 is supplied with one set of mating connectors. Additional connectors can be ordered using the part number shown below. This module has two options: IDC (ribbon cable) or Crimp (discrete wire connectors).

### 407165 : Racal Instruments™ 1260-17

80-channel SPDT Switch w/IDC

### 407165-001 : Racal Instruments™ 1260-17A

80-channel SPDT Switch w/crimp connector

### Accessories and Options:

OPT-401901-005 : Racal Instruments™ Option 01, Smart Control Module installed (manual must be ordered separately; see below)

404820-005 : Racal Instruments™ Option 01, Smart Control Module (not installed) with manual

OPT-405108-001 : Racal Instruments™ Option 01T Smart Control Module installed (manual must be ordered separately; see below)

407531-001 : Racal Instruments™ Option 01T Smart Control Module (not installed) with manual

407207 : Option B, Bracket Retainer Kit for CRIMP only

602004 : 64-pin DIN IDC Connector Body (4 supplied)

602159-064 : 64-pin DIN Crimp Connector Body (4 supplied w/ 1260-17A)

602159-900 : DIN Crimp Pins for 64-pin Connector Body (256 supplied w/ 1260-17A)

990897 : Crimp Tool for 602159-900

990898 : Insertion Tool for 602159-900

990899 : Extraction Tool for 602159-900



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