



Racal Instruments™

1260-18

Basic High-Density Switch Module

The Racal Instruments™ 1260-18 is a high-density general purpose switch module that provides 152 channels. This configuration allows you to develop application specific switch systems with a minimum number of switch cards.

Key Features

- 152 channels of SPST switches
- 50 Mhz bandwidth minimum; 100 MHz bandwidth typical
- Switches signals up to 2 A or 250 VAC
- Highly density user configurable switching
- Both “include” and “exclude” programmable switching
- Combine several switch needs on a single card

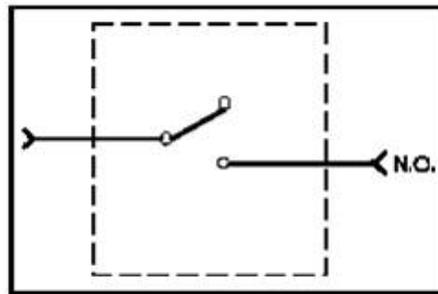
Product Information

The 1260-18 provides the necessary bandwidth and current/voltage switch capability to make it the ideal general purpose switch card. The 1260-18 can be user configured in many ways switching up to 250 AC or 2 A per channel.

Relay coil current monitoring is available to provide confidence checking which gives the user assurance of proper relay operation.

The 1260-12 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.

The 1260-18 supports “equate” programming lists. This allows you to close a group of relays on the switch module simply by sending a single command to the module. The result is a software configurable module providing the ultimate in flexibility.



152 channels. 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.

DC Performance

Maximum Switching Voltage

- 220 VDC or 250 VAC

Maximum Switching Current

- 2 ADC or 2 AAC

Maximum Switching Power

- 60 W, 125 VA

Path Resistance

- < 0.5 Ω

Thermal EMF

- <15 μ V

AC Performance (Into 50 Ω)

Bandwidth (-3dB)

- 50 MHz min
- 100 MHz typ

Insertion Loss

Configuration	Single channel
100 kHz	<0.1 dB
1 MHz	<0.25 dB
10 MHz	<0.7 dB

Crosstalk

- 100 kHz: <-80 dB
- 1 MHz: <-70 dB

Isolation

- 100 kHz: >80 dB
- 1 MHz: >55 dB

Capacitance (Open Channel)

- Input to Ground: <50 pF
- Output to Ground: <50 pF
- Input to Output: <5 pF

Interface

Peak and Dynamic Current

	I_{PM}	I_{DM}
+24 V	6 mA*	0 mA
+5 V	400 mA	75 mA
+5 V w/ Option 01	2.5 A	225 mA

* per energized relay

Environmental

Temperature

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

Humidity

- <30° C: 95%, \pm 5%, non-condensing
- 30° C to 40° C: 75%, \pm 5%
- >40° C: 45%, \pm 5%

Altitude

- Operating: 10,000 ft
- Non-Operating: 15,000 ft

Vibration

- 0.013: double amplitude, 5 to 55 Hz

Rated Switch Operations

- No load: 100,000,000
- 2 A @ 50 VDC: 100,000

Mechanical

Weight

- Slave: 3.2 lb (1.45 kg)
- With Option 01: 3.5 lb (1.60 kg)

Dimensions

- C-size, Single-slot VXIbus Module

Cooling Requirements

- Without Option 01/01T
 - Airflow: 1.0 l/s
 - Backpressure: 0.05 mm H₂O
- With Option 01/01T
 - Airflow: 2.0 l/s
 - Backpressure: 0.2 mm H₂O



The CE Mark indicates that the product has completed and passed rigorous testing in the area of RF Emissions and Immunity to Electromagnetic Disturbances, and complies with European electrical safety standards.

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.

407493 : Racal Instruments™ 1260-18 (Mature)

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Options and Accessories:

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

407407 : 160-Pin Mating Connector w/Backshell and Pins (1260-18 uses two)

407408 : 160-Pin Cable Assembly, 24 GA, 6 ft (1260-18 uses two)

407409 : 160-Pin Cable Assembly, 24 GA, 12 ft (1260-18 uses two)

990898 : Insertion Tool

990899 : Extraction Tool

991033 : ERNI Took Kit includes Crimper and Extractor



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