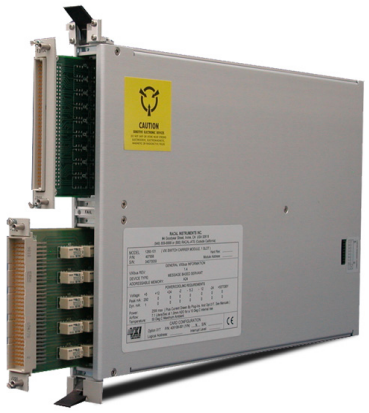

Racal Instruments™ 1260-101

Modular VXIbus Switch Carrier

The Adapt-a-Switch™ platform is a revolutionary, modular switch system that delivers high density and flexibility. The Racal Instruments™ 1260-101 Switch Carrier accommodates two plug-in switch cards in a single slot VXI module. Configurations combining discrete relays, multiplexers, matrices, power relays, RF switches, and digital test units are currently available.

Key Features

- **Easy access, front-loading switch modules**
- **Analog bus expands matrices or multiplexers**
- **Modular package allows multiple switch types in one VXI slot**
- **Accepts two Adapt-a-Switch™ plug-ins**
- **Single-slot, C-size VXIbus carrier**

Product Information

To simplify configuration, the Adapt-a-Switch™ plug-ins are inserted easily and directly from the front panel of the 1260-101, without removing the carrier module from the VXIbus chassis. Field upgrades or modifications can be accomplished quickly and easily. In addition, sparing can be done at the individual plug-in level, minimizing the cost of system support.

The 1260-101 provides an analog bus to interconnect the two plug-ins. This enables large multiplexers and matrices to be dynamically configured via software control.

The Racal Instruments™ Option 01T interface, housed in the 1260-101, controls the two Adapt-a-Switch™ plug-in cards, and up to ten additional 1260-series VXI switch modules using both register-based and message-based modes. Refer to the Option 01T data sheet for specifications and product features.

The 1260-101 includes VXI*plug&play* support for frameworks based on Microsoft Win32® application programming interface, including drivers for LabWindows™/CVI and LabVIEW™.

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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.

General

1260 Series Compatibility
- Option 01T simultaneously controls any combination of Adapt-a-Switch™ plug-ins and 1260 Series switch modules.

Annunciators
- FAIL: Self-test failure indicator LED

Host Interface
- VXIbus backplane

Control Type
- Message-based
- Register-based: VXIbus A24 address space

VXI*plug&play*
- Compatible drivers for all 1260 Series switching modules

Interface

Peak Current (without plug-ins)
- +5 V: 1A

Dynamic Current (per plug-in)
- +5 V: 1mA

Front-Panel Connectors
- Provided by each plug-in

Indicators
- Fail indicator, red LED

Analog Bus
- Four two-wire channels, 100-Ω impedance, 2A current capacity

Environmental

Temperature
- Operating: 0°C to +55° C
- Non-operating: -40° C to +71° C

Relative Humidity
- 95% ±5% non-condensing at 30° C
- 75% ±5% RH above 30° C
- 45% ±5% RH above 40° C

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

Vibration
- 0.013 in: (pk-pk), 5 to 55 Hz; meets MIL-T-28800C Type III, Class 5, Style F

Shock
- 30 G, 11 ms, ½ sine wave

Bench Handling
- 4-inch drop at 45°

MTBF (MIL-HBK-217)
- >315,000 hrs, ground-benign, 30° C

MTTR
- Replace plug-in: 5 min
- Replace other: <30 min

Switching Response Time*
- Register-based: 9 µs max
- Message-based: 10 ms typical

Mechanical

Weight (empty carrier)
- 2.42 lbs

Dimensions
- VXIbus C-size, single-slot module

Module Capacity
- Two Adapt-a-Switch™ plug-ins

Cooling (worst-case plug-in configuration)
- Airflow: 1.5 l/s
- Backpressure: 0.7 mm H_20

* Measured from start of VXIbus cycle until relay coil is fully energized

CE 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

407973 : Racal Instruments™ 1260-101
2 plug-in, 1-slot VXIbus Switch Carrier

407973-01T : Racal Instruments™ 1260-101/01T
2 plug-in, 1-slot VXIbus Switch Carrier with Option 01T installed

Accessories
407667 : Spare Blank Panel