



Racal Instruments™

1260-100

Modular VXIbus Switch Carrier

The Adapt-a-Switch™ platform is a revolutionary, modular switch system that delivers unprecedented density and flexibility in a two-slot, C-size, VXIbus module.

The Racal Instruments™ 1260-100 switch carrier accommodates up to six plug-in switch cards, providing optimum switching solutions while reducing the ATE size requirements.

Configurations combining discrete relays, multiplexers, matrices, power relays, RF switches, and digital test units are currently available.

Key Features

- East access, front-loading switch modules
- Analog bus expands matrices or multiplexers
- Ethernet, GPIB or RS-232 control
- Accepts six Adapt-a-Switch™ plug-ins
- EMI/RFI shields between plug-ins
- Two-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 1260-100, 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 1260-100 provides an analog bus to interconnect two or more plug-ins. This enables large multiplexers and matrices to be dynamically configured via software control. EMI/RFI shields eliminate crosstalk and radiation between plug-ins, ensuring low-noise performance and signal integrity.

The Racal Instruments™ Option 01T interface, housed in the 1260-100 can control twelve Adapt-a-Switch™ plug-in cards, using both register-based and message-based modes. Refer to the Option 01T data sheet for specifications and product features.

The 1260-100 includes *VXIplug&play* support for frameworks based on Microsoft Win32® application programming interface, including drivers for LabWindows™/CVI and LabVIEW™.

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 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

VXIplug&play

- Compatible drivers for all 1260 Series switching modules

Interface

Peak Current (without plug-ins)

- +5 V: 1 A

Dynamic Current (per plug-in)

- +5 V: 1 mA

Front-Panel Connectors

- Provided by each plug-in

Indicators

- Fail indicator, red LED

Analog Bus

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

Environmental

Temperature

- Operating: 0° C to +55° C
- Non-operating: -40° C to +75° C

Relative Humidity

- 95% ±5% non-condensing at 30° 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°

Emissions

- EN55011A with limits in accordance with EN50081-1

Immunity

- IEC801-2,3,4 with limits in accordance with EN50082-1

Safety

- EN61010-1

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)

- 4.4 lbs (2.0 kg)

Dimensions

- VXIbus C-size, two-slot module

Module Capacity

- Six Adapt-a-Switch™ plug-ins

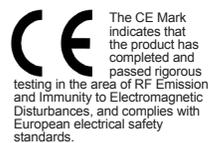
Cooling (worst-case plug-in configuration)

- Airflow: 3.0 l/s
- Backpressure: 0.7 mm H₂O

RF Shielding

- Fixed aluminum shields between plug-in slots

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



Ordering Information

407655 : Racal Instruments™ 1260-100

Adapt-a-Switch™ VXIbus Switch Carrier

407655-01T : Racal Instruments™ 1260-100/01T

Adapt-a-Switch™ VXIbus Switch Carrier with Option 01T installed

Accessories

407667 : Spare Blank Panel



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