**Racal Instruments**
http://www.racalinstruments.com

# PRODUCT INFORMATION

# Modular VXIbus Switch Carrier
# Model 1260-100

Modules not included with carrier.

- **East Access, Front-loading Switch Modules**
- **Analog Bus Expands Matrices or Multiplexers**
- **Modular Package Allows up to 50% More Switching**
- **Accepts Six Adapt-a-Switch™ plug-ins**
- **EMI/RFI Shields Between Plug-ins**
- **Two-slot, C-size VXIbus**

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 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. An ever-expanding range of plug-in switch cards ensures that Adapt-a-Switch will continue to be the solution for future test requirements.

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 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 VXI*plug&play* support for WIN96/NT frameworks, including drivers for LabWindows/CVI and LabVIEW.

# 1260-100 SPECIFICATIONS

## 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

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

## VXIbus INTERFACE DATA

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

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

**Cooling** (worst-case plug-in configuration)
Airflow: 3.0l/s
Backpressure: 0.7mm $H_20$

## 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. P-P, 5 Hz 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°

## EMC

**Emissions**
EN55011A with limits in accordance with EN50081-1

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

**Safety**
EN61010-1

## RELIABILITY

**MTBF**
315,000 hours, MIL-HBK-217, ground-benign, 30°C

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

**Switching Response Time***
Register-based: 9µs 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

**Front-Panel Connectors**
Provided by each plug-in

**Indicators**
Fail indicator, red LED

**RF Shielding**
Fixed aluminum shields between plug-in slots

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

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

| ORDERING INFORMATION | | |
|---|---|---|
| **Model** | **Description** | **Part Number** |
| 1260-100 | Adapt-a-Switch VXIbus Switch Carrier | 407655 |

CE 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

The Racal policy is one of continuous development; consequently, the equipment may vary in detail from the description and specification in this publication.

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