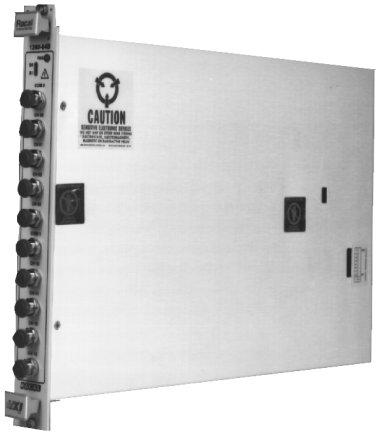
Racal Instruments
http://www.racalinstruments.com

PRODUCT INFORMATION

VXIbus Optical Switch Module Model 1260-84A/B



- **Ideal for SONET Testing**
- **High Repeatability for Accurate Testing**
- **Modular VXIbus Architecture**
- **Quick Delivery from Stock**
- **Optional Overnight Depot Spare**
- **Special Configurations Readily Available**

The 1260-84 series optical switch modules bring the advantages of the modular VXIbus architecture to optical systems test. Modules can quickly and easily be removed and replaced for maximum system uptime. In addition, Racal offers overnight depot spares contracts to free you from stocking spares.

These optical switch modules are ideal for SONET test, fiber-optic component test, and fiber network monitoring.

The 1260-84A single 1 x 4 topology is used primarily for simplex switching. The 1260-84B dual 1 x 4 topology can be used for simplex or duplex switching. The 1260 series “include” command permits simultaneous closure of both switches with a single software command, when a duplex scheme is required.

Also, the 1260-84 modules feature diffraction-limited collimating lenses to achieve precise switching of optical channels. This implementation provides highly repeatable switch paths, facilitating the construction of highly accurate optical test systems. These switches are optically passive and operate independently of data rate, data format, and optical signal direction.

The 1260 series line includes VXI*plug&play* support of Win95/NT frameworks including drivers for LabWindows/CVI and LabView. Please refer to the Option 01T data sheet for additional product features and specifications.

1260-84 SPECIFICATIONS

PERFORMANCE

Optical Fiber Type
9/125µm, single-mode fiber
(Other fiber types available upon request)

Wavelength Range
1290-1570nm

Insertion Loss (See Note 2)
<1.2dB maximum, 0.6dB typical

Back Reflection (See Note 2)
<-55dB maximum, -60dB typical

Polarization Dependant Loss
(See Note 3)
0.05dB maximum

Repeatability (See Note 4)
+/- 0.03dB sequential switching,
+/- 0.010dB typical

Isolation
>80dB minimum, 90dB typical

INTERFACE DATA

Cooling Requirements
1.0 liters/second @
0.025mm H_20, (1260-84B-2)

Power Requirements
+5VDC @ 0.4A
+5VDC @ 1.4A w/Option 01T
+12VDC @ 0.25A, 1260-84A
+12VDC @ 0.5A, 1260-84B

ENVIRONMENTAL DATA

Temperature
Operating: 0°C to 50°C
Storage: -20°C to 70°C

Relative Humidity
90% non-condensing
to 40°Cfor 5 days

Shock
30g, 11msec, ½ sinewave

Vibration
0.013" peak-to-peak, 5-55Hz

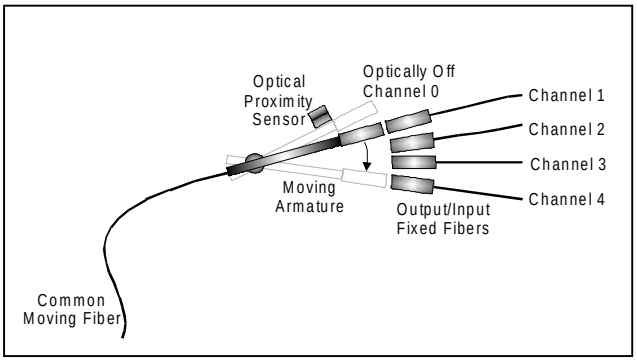
Bench Handling
4 inch drop at 45°

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



1260-84A/B

RELIABILITY

Switching Time
325msec +16msec/channel maximum

Rated Switch Operations
$>10^7$ operations minimum

MTBF
>100,000 hours, minimum

MECHANICAL

Weight (1260-84B)
4.8 lbs. (2.18kg)
w/Option 01T 5.1lbs. (2.31kg)

Dimensions
1260-84A One Slot, C-size
1260-84B Two Slot, C-size

Front Panel Interface Connector
FC Style

(Other style interface connectors available upon request)

Notes:

1. **All specifications are referenced without connectors and measured at 23ºC +/- 5ºC.**
2. **Connectors have typically less than 0.25dB insertion loss and -45dB back reflection.**
3. **Measured at 1550nm. PDL typically less than 0.02dB per mated connector pair.**
4. **100 cycles measured at constant temperature after 1-hour warm-up.**
5. **Interface cables are not supplied with the module(s).**

ORDERING INFORMATION		
Model	**Description**	**Part Number**
1260-84A-1	Single 1 x 4 Optical Switch Module, 1-slot	407692-001
1260-84B-1	Dual 1 x 4 Optical Switch Module, 1-slot	407692-002
980673-057	Additional User Manual	980673-057
*One Option 01T must be ordered with switch card(s). Please specify the card on which Option 01T will be installed.		

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 standards.

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