



High-Performance Microwave Transfer Switch Plug-In

Racal Instruments 1260-162A/B is a 2-slot microwave switch plug-in for use in either the 1260-100 VXI Carrier or the 1256 GPIB/RS-232 Switching Mainframe. It is optimized for high-performance, high-density, microwave switching applications. The 1260-162A/B uses high-quality sealed Narda switches for the ultimate in signal integrity.

- ◆ **Transfer Switch Configuration**
- ◆ **2-Slot Plug-In**
- ◆ **DC to 18 GHz Frequency Range**
- ◆ **MTTR Under Five Minutes**
- ◆ **High-Quality Narda Switches**
- ◆ **Self-Cleaning Switches for High Repeatability and Accurate System Calibration**
- ◆ **Ideal for Switching Cellular, PCS, and Military Communications Signals**

The 1260-162A/B provides highly reliable and repeatable operation over a specified lifetime of >1,000,000 operations. Narda's specialized microwave switch design includes a self-cleaning wiper, which cleans the contacts every time the switch closes, ensuring specification accuracy over the lifetime of the switch.

The 1260-162A/B is ideal for signal switching, circuit insertion, and construction of simple matrices in modern communications systems, including Cellular, PCS, and Satcom applications. It is also suitable for ATE systems designed to test military telecommunications, surveillance, and related equipment.

User connections are made directly to the switch SMA connectors at the front panel of the plug-in, eliminating cumulative losses and induced noise. A specially designed, deep-slotted socket (1/4" drive) is available to connect/disconnect the SMA interface connectors quickly and easily.

Should switch replacement become required, they are easily removed and replaced in under five minutes. This maximizes system uptime and readily facilitates field upgrades.

The 1260-162A/B is available in two standard configurations: one or two switches. Other configurations are possible; contact the factory for availability

When used with the 1260-100 Adapt-a-Switch® carrier, the 1260-162A/B requires an Option 01T to communicate with the switch plug-in. This option additionally provides message-based operation for ease-of-use and register-based operation for maximum speeds. When used with the 1256 mainframe, no additional controller is required.

The Adapt-a-Switch® line includes drivers for LabWindows/CVI and LabVIEW for VXI applications. It also includes VXIplug&play-compliant support for WIN95/98/NT/2000 platforms.

1260-162A/B PRODUCT SPECIFICATIONS

MICROWAVE PERFORMANCE

Frequency Range

DC to 18 GHz

Impedance

50

Maximum Power

100 MHz: 490 W
1 GHz: 180 W
10 GHz: 60 W
18 GHz: 50 W

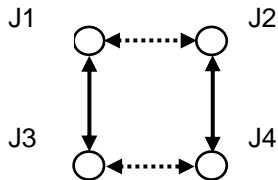
Frequency Range (GHz)	DC-3	3-8	8-12.4	12.4-18
Insertion Loss (MAX dB)	0.2	0.3	0.4	0.5
Isolation (MIN dB)	80	70	60	60
VSWR (MAX)	1.2:1	1.3:1	1.4:1	1.5:1

Switching Sequence

Break Before Make

Operating Mode

1260-162A/B



Position 1: J1-J4, J2-J3

Position 2: J1-J2, J3-J4

VXibus INTERFACE DATA

Cooling (1260-100 Adapt-a-Switch Carrier)

Airflow: 3.0 liters/sec

Backpressure: 0.5 mm H₂O

Power Requirements

+5 VDC

1260-162A: 1.77 A max

1260-162B: 3.53 A max

ENVIRONMENTAL DATA

Temperature

Operating: -20o C to 45o C

Storage: -40o C to 75o C

Relative Humidity

90% max non-condensing at <30o C

Altitude

Operating: 10,000 ft.

Non-Operating: 15,000 ft.

Shock

30 g, 11 ms, 1/2 sine wave

Vibration

0.013 in.: (pk-pk) 5-55 Hz

Bench Handling

4-inch drop at 45o

EMC

Emissions

EN61326, Class A, Table 3

Immunity

EN61326, Class A, Table 1

Safety

CE, EN61010-1

RELIABILITY

Switching Time

20 ms max (includes settling time)

Rated Switch Operations

Electrical: 1,000,000 operations at full-rated load

MTBF

860,000 hrs.

(MIL-HBK-217E, excluding switches)

MTTR

<5 min.

MECHANICAL

Weight

1260-162A: 5.4 oz. (150 g)

1260-162B: 7.0 oz. (200 g)


Dimensions

4.5" H x 1.5" W x 9.5" D

(Dual-Slot Plug-In)

Front Panel I/O Interface Connector

SMA male (not supplied)

 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.

ORDERING INFORMATION

MODEL/DESCRIPTION

Racal Instruments 1260-162A, One Microwave Transfer Switch, 18 GHz

Racal Instruments 1260-162B Two Microwave Transfer Switches, 18 GHz

Spare Microwave Transfer Switch

Deep-Slotted Socket, 5 /16"

PART NUMBER

407767-001

407767-002

310296

456890

The EADS North America Defense Test and Services 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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