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Racal Instruments™ 1260-164A/B

High-Performance SP4T Microwave Switch Plug-In

The Racal Instruments™ 1260-164A/B is a 2-slot microwave switch plug-in for use in either the Racal Instruments™ 1260-100 Adapt-a-Switch™ VXI carrier or the Racal Instruments™ 1256 GPIB/RS-232 switching mainframe. It's optimized for high-performance, high-density, microwave switching applications. The 1260-164A/B uses high-quality sealed Narda switches for the ultimate in signal integrity.

Key Features

- **SP4T 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**

Product Information

The 1260-164A/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 1260-164A/B is ideal for switching signals used in modern communications systems including Cellular, PCS, and Satcom applications. It is also appropriate for ATE systems designed for testing military telecommunications, surveillance, and related equipment.

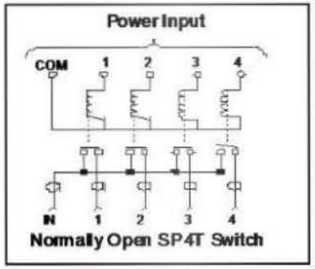
User connections are made directly to the switch SMA connectors at the front panel of the plug-in, eliminating cumulative losses and induced noise. A specially designed, deep-slotted socket (1/4" drive) is available to connect/disconnect the SMA interface connectors quickly and easily.

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 1260-164A/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 1260-164A/B requires a Racal Instruments™ Option 01T to communicate with the switch plug-ins. 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™ series includes drivers for LabWindows™/CVI and LabVIEW™ for VXI applications. It also includes VXI*plug&play*-compliant support for frameworks based on Microsoft Win32® application programming interface



1x4 Block Diagram

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Specifications

Note: The EADS North America Test and Services policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Microwave Performance

Frequency Range
- DC to 18 GHz

Impedance
- 50 Ω

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)	0.15	0.25	0.24	0.45
Isolation (min dB)	85	75	65	65
VSWR (max)	1.15:1	1.25:1	1.35:1	1.45:1

Switching Sequence
- Break Before Make

Operating Mode
- Normally Open

Interface

Power Requirements
- +5 VDC
  1260-164A: 1.00 A max
  1260-164B: 1.95 A max

Front Panel I/O Interface Connector
- SMA male (not supplied)

Environmental

Temperature
- Operating: 0° C to 60° C
- Storage: -40° C to 75° C

Relative Humidity
- 95% ±5% non-condensing at <30° 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 to 55 Hz

Bench Handling
- 4-inch drop at 45°

Emissions
- EN61326, Class A, Table 3

Immunity
- EN61326, Class A, Table 1

Safety
- CE, EN61010-1

Switching Time
- <15 ms (includes settling time)

Rated Switch Operations
- Electrical: 1,000,000 operations at full rated load

MTBF (MIL-HBK-217E, excluding switches)
- 1260-164A: 860,000 hrs
- 1260-164B: 560,000 hrs

MTTR
- <5 min

Mechanical

Weight
- 1260-164A: 5.8 oz. (160 g)
- 1260-164B: 8.0 oz. (230 g)

Dimensions
- 4.5" H x 1.5" W x 9.5" D (Dual-Slot Plug-In)

Cooling (1260-100 Adapt-A-Switch® Carrier)
- Airflow: 3.0 l/s
- Backpressure: 0.5 mm H_2O

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

407778-001 : Racal Instruments™ 1260-164A
One SP4T Microwave Switch, 18 GHz

407778-002 : Racal Instruments™ 1260-164B
One SP4T Microwave Switch, 18 GHz

310295 : Spare SP4T Microwave Switch

Accessories:

456890 : 5/16" Deep Slotted Socket for 1/4" ratchet; to service SMA cables (see illustration)



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