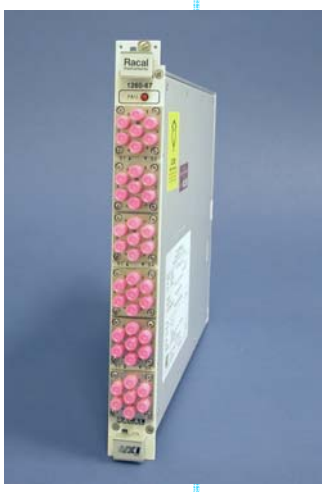
RACAL INSTRUMENTS™ 1260-67M



Modular Microwave Switching Platform

- **Accepts 1 to 6 Microwave Switch Plug-Ins, up to 12 Switches, in a Single-Slot VXI Module**
- **Plug-Ins in 2-SPDT, SP4T, SP6T, and Transfer Switch Configurations**
- **32 Relay Driver Channels are Optional**
- **Non-Latching Switches are Supported**
- **18GHz to 26.5GHz Operation Available**
- **Plug-in Design for Low MTTR and Easy Sparing**

Racal Instruments 1260-67M is optimized for high- performance, configurable microwave switching applications.

The 1260-67M provides highly reliable and repeatable operation over a conservatively specified lifetime of >1,000,000 operations.

Should relay replacement become required, relays can be removed and replaced in less than five minutes without removing the module from the VXI system. This maximizes system uptime and facilitates field upgrades

User connections are made directly to the relay via front panel SMA connectors, eliminating cumulative losses and induced noise.

The module is configurable to the user's requirements with 2-SPDT, SP4T, SP6T and transfer switch plug-ins with non-latching control available.

An Option 01T is required to communicate with 1260 series modules, and provides message-based operation for ease of use and register-based operation for maximum speed. The Option 01T mounts in the leftmost 1260 series module and does not consume any VXI slots. The Option 01T provides a single point of software control for the switching system with advanced features such as include, exclude, scan, relay monitoring, user defined path names, and reset states.

Racal Instruments 1260 series line includesVXI plug&play support for Win95/NT/2000/XP operating systems including drivers for LabWindows/CVI and LabView. Please refer to the Option 01T data sheet for additional product features and specifications.

EADS NORTH AMERICA DEFENSE

1260-67M PRODUCT SPECIFICATIONS

MICROWAVE PERFORMANCE

Frequency Range
DC to 26.5 GHz

Impedance
50 Ω

Configurations
2-SPDT, SP4T,
SP6T, Transfer Switch

Maximum Power (typical)
100 MHz: 450 W
1 GHz: 180 W
10 GHz: 50 W
18 GHz: 40 W
26.5 GHz: 3 W (Avg.)

Switching Sequence
Break-before-make

Operating Modes
Normally Open,
Failsafe

32-CHANNEL DC PERFORMANCE

Two 16x1 Banks
30 VDC Max
Per Bank: 4 A
Per Switch: 0.5 A

Maximum Switchable Power
30 WDC, 62.5 VA per Module

Operating Mode
Normally open

VXIBUS INTERFACE DATA

Cooling (w/ Option 01T)
1.2 liter/sec @ 0.08 mm H2O

Power Requirements
+5 VDC at 2.6 A w/Option 01T
+5 VDC at 1.6 A w/o Option 01T
+12 VDC at 320 mA per energized RF switch

ENVIRONMENTAL DATA

Temperature
Operating: 0° C to 55° C
Storage: -40° C to 71° C

Relative Humidity
5 to 95 ± 5% RH non-condensing,
75 ± 5% RH above 30°C,
45 ± 5% RH above 45°C

Altitude
Operating: 15,000 ft.
Non-Operating: 15,000 ft.

Shock
30 g, 11ms, ½ sine wave

Vibration
Random, 5-500 Hz

Bench Handling
4-inch drop at 45°

EMC
EN61326:1997+A1:1998,
Class A

Safety
EN61010-1:1993+A2:1995

RELIABILITY

MTBF
57,569 hours (each matrix card)
(MIL-STD-217E)

MTTR
≤5 min.

MECHANICAL

Weight
19 lbs.

Dimensions
3.5” H x 16.5” W x 19.5” D

Frequency Range	DC-3 GHz	3-8 GHz	8-12 GHz	12-18 GHz	18-26 GHz
Insertion Loss	0.2	0.3	0.4	0.5	0.8
Isolation	80	70	60	60	45
VSWR (MAX)	1.2:1	1.3:1	1.4:1	1.5:1	1.9:1

1260-67M ORDERING INFORMATION

Construct the 1260-67M part number by filling in the required model codes from the table at each position in the Carrier Module as shown in the diagram. Spare plug-ins or blanking plates are ordered by specifying the full 10 digit part numbers.

407879-UVWXYZ

1st Position Plug-In Code
2nd Position Plug-In Code
3rd Position Plug-In Code
4th Position Plug-In Code
5th Position Plug-In Code
6th Position Plug-In Code

ORDERING INFORMATION

(see table for plug-in options and part number specifications)

MODEL/PLUG-IN CODE	DESCRIPTION	PART NUMBER
1260-67M	Racal Instruments 6 Position Microwave Switch Carrier Module	407879-UVWXYZ
0	Blanking Plate (specify where no plug-in installed)	457093
2*	2 SPDT @ 18 GHz Plug-In	407882-302
4	1 SP6T @ 18 GHz Plug-In	407882-106
Option O1T	Message/Register-Based Switch Controller – Installed	OPT-405108-001

*** These plug-ins fill 2 positions**

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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