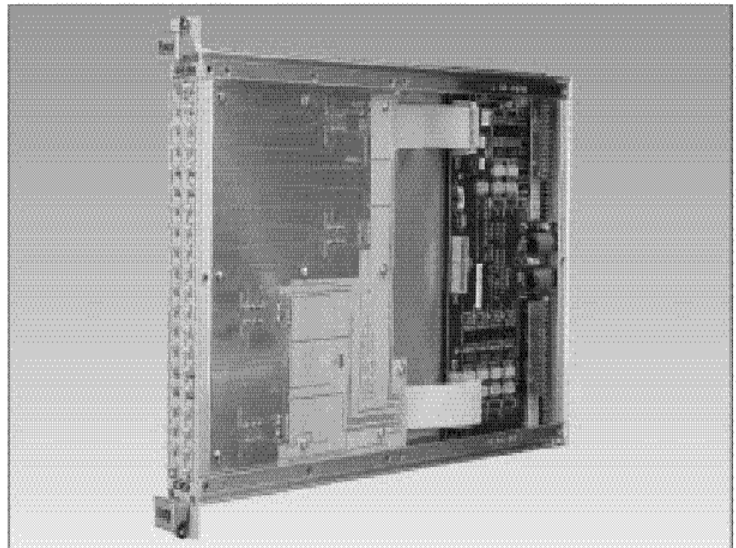


### 4GHz RF Switch Module Model 1260-59A/B



- ◆ 4 or 8 1P4T High Performance RF Signal Paths
- ◆ 4GHz Minimum Bandwidth, 5GHz Typical
- ◆ Single-slot, C-size, Message-based VXIbus Module
- ◆ Excellent Insertion Loss, Crosstalk Isolation Properties
- ◆ Software Configurable with *VXIplug&play* Drivers
- ◆ High Quality SMB Coaxial Interface Connectors

The Racal Instruments Model 1260-59 provides the ideal high-performance RF switch resource for signals up to 5GHz. The choice between two different versions provides users with the desired density while minimizing cost. The 1260-59A provides four 1x4 relays while the 1260-59B versions gives the user eight 1x4 multiplexers all in a single-slot C-size module.

The module provides a low noise environment for switching signals used in modern communication systems. The 4GHz bandwidth guarantees signals will not be degraded when switched from source to destination. Larger switching systems are easily configured by connecting multiple modules and controlling them via Racal's powerful message-based interface.

Relay coil currents are monitored to provide user selectable confidence checking, which gives the user additional assurance of proper relay operation.

The 1260-59 is controlled by the Option 01 message-based interface which is explained in detail on the Smart Card Module page. All 1260 control features explained on the Option 01 page are available to this module.

# 1260-59 SPECIFICATIONS

**Maximum Channel Power**  
10 Watts

**Maximum Channel Current**  
10mADC

**Maximum Channel Voltage**  
24VDC

## DC PERFORMANCE

**Path Resistance**  
≤ 0.5Ω

## AC PERFORMANCE (into 50Ω)

**Bandwidth** (-3dB)  
4GHz min., 5GHz typical

**Insertion Loss**  
1GHz: <1.0dB  
2GHz: <1.75dB  
3GHz: <2.25dB  
4GHz: <3.0dB

**Crosstalk**  
1GHz: <-55dB  
2GHz: <-45dB  
3GHz: <-40dB  
4GHz: <-30dB

**Isolation**  
1GHz: >40dB  
2GHz: >35dB  
3GHz: >30dB  
3GHz: >40dB typical  
4GHz: >25dB

**VSWR**  
<1.05:1 DC to 100MHz  
<1.25:1 0.1 to 1GHz  
<2.0:1 2.0 to 3GHz  
<1.5:1 1.0 to 3GHz Typical

## VXIbus INTERFACE DATA

**Cooling Requirements**  
Airflow: 1.0 liters/sec  
Backpressure: 0.05mm H<sub>2</sub>O

**With Option 01S/T**  
Airflow: 2.0 liters/sec  
Backpressure: 0.2mm H<sub>2</sub>O

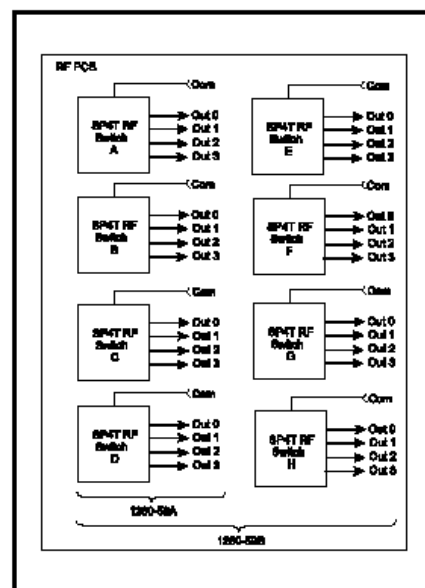
**Power Requirements**  
+5V: 0.4A  
+12V: 15mA per relay

**Dimensions**  
C-size, Single-slot VXIbus Module

**Weight**  
3.44 lb (1.56 kg) without Option 01  
3.74 lb (1.70 kg) with Option 01

**User Connector**  
SMB

**Typical Programming Syntax**  
Programming Syntax is in the  
“<module address> . <channel>”  
Example: CLOSE 3.04.  
This close statement will close  
channel number 2 on the 1260-59  
at card address 3.



1260-59 Relay Configuration

## ORDERING INFORMATION

Model	Description	Part Number
1260-59A	3GHz RF Switch Module	
1260-59B	3GHz RF Switch Module	
Option 01*	Smart Card Module (installed)	

\*One Option 01 must be ordered with switch system. Please specify the card on which Option 01 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

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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