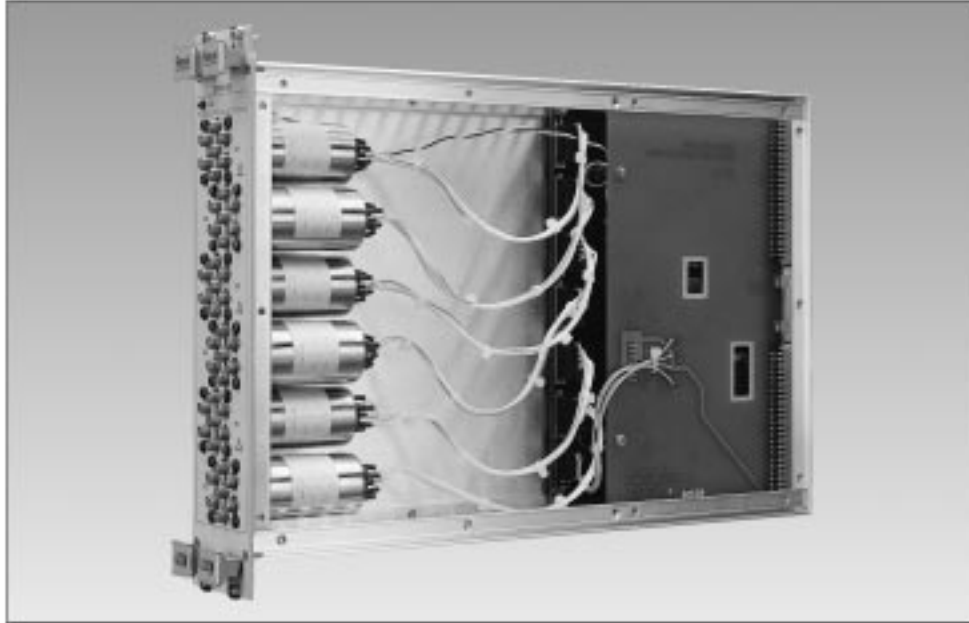# Microwave Switch
Model 1260-66

- ■ **High Density Microwave Switch**

- ■ **Double-slot, C-size, Message-based VXIbus Module**

- ■ **DC to 18GHz**

- ■ **Provides Ultra High Density for RF and Microwave Switching Requirements**

- ■ **2, 4 or 6 SP6T, 50Ω Coaxial Switches**

- ■ **Direct SMA Front Panel Connections**

The Model 1260-66 is ideal for high-density microwave applications. This module provides a low-noise environment for microwave signals. All connections are made directly to the high performance SMA relay inputs at the front panel offering the ultimate signal integrity. Larger switching configurations can be configured using multiple modules.

The high power capability and frequency range of the 1260-66 make it ideal for use in several microwave test applications.

Relay coil currents of the microwave switches are monitored to provide user-selectable confidence checking which provides additional assurance of proper relay operation.

The 1260-66 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 that page are available to this module.

1260-66 Specifications

MICROWAVE PERFORMANCE

Frequency Range
DC to 18GHz
RF Impedance
50Ω nominal
Maximum Power Per Channel
4GHz: 70W
12.4GHz: 40W
18GHz: 30W
Switching Sequence
Break before make

VXIbus INTERFACE DATA

Cooling Requirements (at sea level)
Airflow: 1.0 liters/sec
Backpressure: 0.05mm H_2O
With Option 01S/T
Airflow: 2.0 liters/sec
Backpressure: 0.2mm H_2O
Power Requirements (I_{pm})
+5V: 0.4A (2.8A with Option 01 installed)
+12V: 300 mA per μ W relay (energized)

RF Performance

Frequency Range (GHz)	DC-4	4-12.4	12.4-18
VSWR	1.25:1	1.40:1	1.50:1
Insertion Loss (dB max)	0.2	0.3	0.4
Isolation (dB min)	60	60	60

Dimensions
C-size, Dual-slot VXIbus Module
User Connector
SMA male (not supplied)

ENVIRONMENTAL DATA

Temperature
Operating: 0°C to 55°C
Storage: -55°C to 75°C
Humidity
95%, non-condensing
Altitude
15,000 ft.
Weight
6.0 lb (2.7 kg) without Option 01
6.28 lb (2.82 kg) with Option 01

Typical Programming Syntax

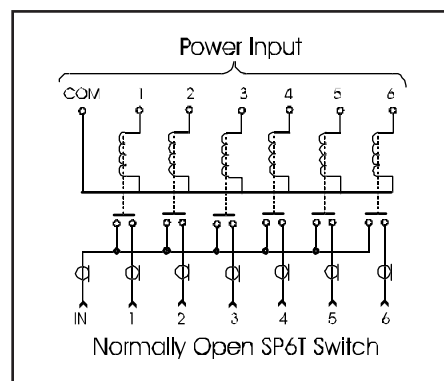Programming syntax is in the form:
"<module address>.<relay no.> <pole no.>"
Example: CLOSE 2.10
This statement will close pole 0 of relay 1 on the 1260-66 at address 2.

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.

1260-66
Microwave switch module configured as two, four or six SP6T channels.

ORDERING INFORMATION

Model	Description	Part Number
1260-66A	Six SP6T Microwave Switches, 18GHz	407499-001
1260-66B	Four SP6T Microwave Switches, 18GHz	407499-002
1260-66C	Two SP6T Microwave Switch, 18GHz	407499-003
Option 01*	Smart Card Module (installed)	OPT-401901-005
One Option 01 must be ordered with switch system. Please specify the card on which Option 01 will be installed.		

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