## SWITCHING

## Microwave Switch Model 1260-64



- Double-slot, C-size, Message-based VXIbus Module
- DC to 18 GHz

■ Up to Four SP6T, 50 Coaxial Switches

- Direct SMA Front Panel Connections
- An Additional 32 SPST Relays to Drive External Devices
- Optional Terminated Relays Available

The Model 1260-64 is ideal for highdensity microwave applications. This module provides a low-noise environment for microwave signals. All connections are made directly to the SMA relay inputs at the front panel. Larger switching configurations can be configured using multiple modules.

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

The Model 1260-64 contains 32 SPST relays in groups of 16 to drive external devices. These relays can utilize the internal supplies $(+5 \mathrm{~V},+12 \mathrm{~V},+24 \mathrm{~V}$ ) or an external supply to drive any device.

The 1260-64 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.

## 1260-64 Specifications

MICROWAVE
PERFORMANCE

## Frequency Range

DC to 18 GHz
RF Impedance
$50 \Omega$ nominal
Maximum Power Per Channel
100MHz: 400W
1GHz: 150W
10GHz: 50W
18GHz: 40W
RF Performance

| Frequency Range (GHz) | DC-3 | $3-8$ | $8-12$ | $12-18$ |
| :--- | :--- | :--- | :--- | :--- |
| VSWR | $1.2: 1$ | $1.3: 1$ | $1.4: 1$ | $1.5: 1$ |
| Insertion Loss (dB max) | 0.2 | 0.3 | 0.4 | 0.5 |
| Isolation (dB min) | 80 | 70 | 60 | 60 |

## Switching Sequence

Break before make

## 32-CHANNEL DC PERFORMANCE

Maximum Switchable Voltage
(Terminal-Terminal or Terminal-Chassis) From external Supply: 30VDC
Number of Banks Two

Number of Switches
16, 1-wire per bank
Maximum Switchable Current
(DC or ACrms)
Per Bank: 4A
Per Switch: 0.5A
Maximum Switchable Power
Per Module: 30WDC, 62.5VA
Operating Mode: Normally open

## VXIbus INTERFACE DATA

Cooling Requirements
Airflow: 1.0 liters/sec
Backpressure: $0.05 \mathrm{~mm} \mathrm{H}_{2} \mathrm{O}$
With Option 01S/T
Airflow: 2.0 liters/sec
Backpressure: $0.2 \mathrm{~mm} \mathrm{H}_{2} \mathrm{O}$
Power Requirements (I
$+5 \mathrm{~V}: \quad 0.4 \mathrm{~A}$ (2.8A with Option 01 installed)
+12V: 320 mA per microwave relay (energized)
$+24 \mathrm{~V}: 10 \mathrm{~mA}$ per SPST relay (energized)

## Weight

$5.0 \mathrm{lb}(2.25 \mathrm{~kg})$ without Option 01
$5.28 \mathrm{lb}(2.38 \mathrm{~kg})$ with Option 01
Dimensions
C-size, Single-slot VXIbus Module
User Connector
SMA (not supplied)

Typical Programming Syntax
Programming syntax is in the form: "<module address>.<bank><relay> Example: CLOSE 2.109
This statement will close relay number 9 in bank number 1 on the 1260-64 at card address 2.

CThe 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.


1260-64
Microwave switch module configured as one, two or four SP6T channels.

## ORDERING INFORMATION

| Model | Description | Part Number |
| :---: | :---: | :---: |
| $1260-64 \mathrm{~A}$ | Four SP6T Microwave Switches, 18 GHz | 407089 |
| $1260-64 \mathrm{~B}$ | Two SP6T Microwave Switches, 18 GHz | $407089-001$ |
| $1260-64 \mathrm{C}$ | One SP6T Microwave Switch, 18 GHz | $407089-002$ |
| Option 01* | Smart Card Module (installed) | OPT-401901-005 |
| $601855-050$ | 50-Pin Connector Body Part | $601855-050$ |
| 601857 | Solder Type Pin | 601857 |
| *One Option 01 must be ordered with switch system. Please specify the card on which Option 01 will be installed. |  |  |


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