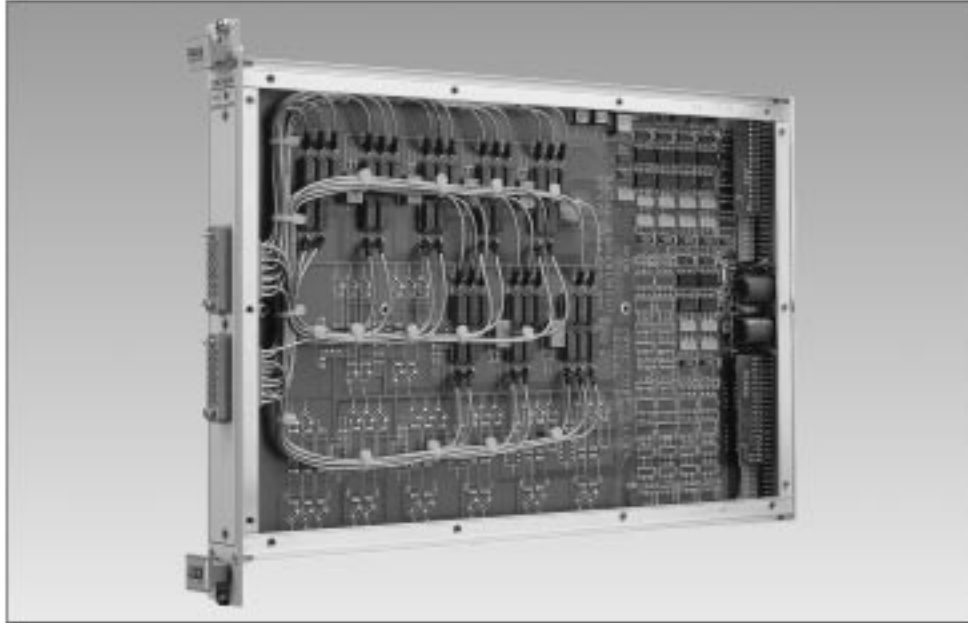




## 200MHz RF Multiplexer Module Model 1260-50C/D



■ **1260-50C Configurable as:**

Eight 1x4      Two 1x19  
Four 1x9      One 1x39

■ **1260-50D Configurable as:**

Sixteen 1x4    Two 1x39  
Eight 1x9     One 1x79  
Four 1x19

■ **200MHz bandwidth with Excellent Crosstalk and Isolation**

■ **Software Configurable**

■ **Coaxial Interfaces**

The Model 1260-50 is ideal for switching wide-band signals up to 200MHz. It is intended for use with function/pulse generators, universal counter/timers, oscilloscopes and other instruments where high frequency or fast pulse signals are switched.

The Model 1260-50C consists of eight 1x4 50W multiplexers and the Model 1260-50D consists of 16 1x4 50Ω multiplexers. These multiplexers are bi-directional and reconfigurable via software. This makes reconfiguration

easy and eliminates the need to disassemble the module.

The coaxial connector housing (shell) is supplied with the Model 1260-50C/D. The connector pins must be purchased separately. Racal Instruments also offers coaxial pins complete with cables for this module. Coaxial cables have been tested up to a 1GHz bandwidth and are available in 2, 6 and 12 foot lengths with a coaxial pin at each end.

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

The 1260-50 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.

# 1260-50C/D Specifications

## Maximum Switchable Voltage

(Signal-Signal Ground, Resistive Load)  
200VDC or 200VAC peak

## Maximum Switchable Current Per Channel

0.5ADC, 0.5AAC peak

## Maximum Carry Current

1ADC, 1AAC peak

## Maximum Switchable Power Per Channel

10WDC, 10VA, 10W RF into 50Ω

## DC PERFORMANCE

### Path Resistance

≤ 2Ω

## AC PERFORMANCE (into 50Ω)

### Bandwidth (-3dB)

200MHz

### Insertion Loss

100MHz: <0.7dB

### Crosstalk

10MHz: ≤-40dB  
100MHz: ≤-40dB  
200MHz: ≤-35dB

### Isolation

10MHz: ≤-40dB  
100MHz: ≤-40dB  
200MHz: ≤-35dB

### VSWR

≤1.3:1 at 100MHz

### Propagation Delay Time

(Typical): 3ns

## 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 (I<sub>pm</sub>)

+5V: 0.4A (2.8A with Option 01 installed)  
+12V: 0.5A

### Dimensions

C-size, Single-slot VXIbus Module

### Weight

2.49 lb (1.17 kg) without Option 01  
2.87 lb (1.29 kg) with Option 01

### Life Expectancy

250 x 10<sup>6</sup> Operations  
(Signal <1.0V, .010A)

### User Connector: GMCT

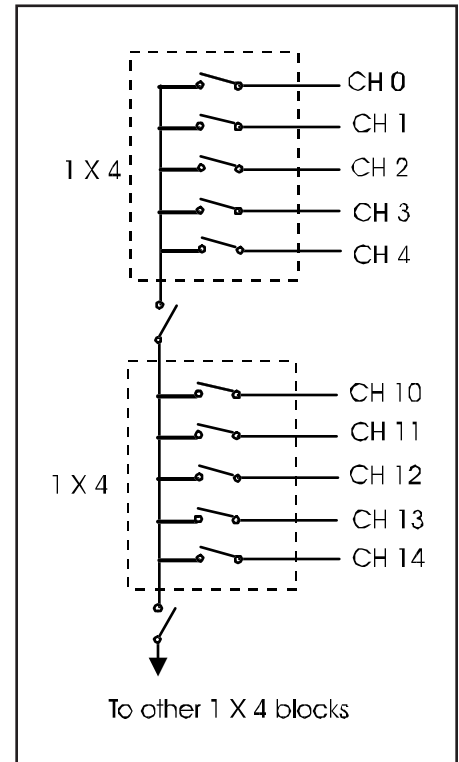
Crimp Shielded Contact from Burndy or available from Racal Instruments - see Ordering Information below

### Typical Programming Syntax

Programming Syntax is in the form  
"<module address> . <channels>"

Example: CLOSE 3.04

This close statement will close relay number 4 on 1260-50 at card address 3.



**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.

## ORDERING INFORMATION

Model	Description	Part Number
1260-50C	200 MHz RF Multiplexer (8 1x4)	407366-001
1260-50D	200 MHz RF Multiplexer (16 1x4)	407366-002
Option 01*	Smart Card Module - installed	OPT-401901-005
Coax Pins	Coax Pin for Model 1260-50C/D	602220-900
Coax Cable Assembly	1 GHz Cables with pins at each end for Model 1260-50C/D, 2 ft. (-003, 6 ft.; -006, 12 ft.)	407368-001
Crimp Tool for Coaxial Pin	Order directly through Burndy Corp.	please see page 82

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



<http://www.racalinst.com>

