

## 200 MHz RF Multiplexer Module

- ◆ **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**

Racal Instruments™ 1260-50 is ideal for switching wide-band signals up to 200 MHz. 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 1260-50C consists of eight 1x4 10W multiplexers and the 1260-50D consists of 16 1x4 50  $\Omega$  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 1260-50C/D. The connector pins must be purchased separately. Coaxial pins complete with cables for this module are also available. Coaxial cables have been tested up to a 1 GHz 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 Option 01 data sheet. All 1260 control features explained on the Option 01 data sheet are available to this module.

# 1260-50C/D PRODUCT SPECIFICATIONS

## Maximum Switchable Voltage

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

## Maximum Switchable Current Per Channel

0.5 ADC, 0.5 AAC peak

## Maximum Carry Current

1 ADC, 1 AAC peak

## Maximum Switchable Power Per Channel

10 WDC, 10 VA, 10 W RF into 5Ω

## DC PERFORMANCE

### Path Resistance

≤ 2 Ω

## AC PERFORMANCE (into 50Ω)

### Bandwidth (-3dB)

200 MHz

### Insertion Loss

100 MHz: <0.7 dB

### Crosstalk

10 MHz: ≤-40 dB

100 MHz: ≤-40 dB

200 MHz: ≤-35 dB

### Isolation

10 MHz: > 40 dB

100 MHz: >-40 dB

200 MHz: >-35 dB

### VSWR

≤1.3:1 at 100 MHz

### Propagation Delay Time

(Typical): 3 ns

## 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 EADS North America Defense Test and Services – see Ordering Information below

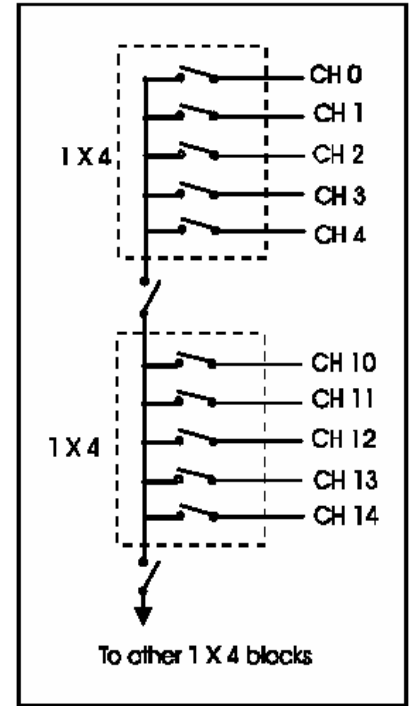
### Typical Programming Syntax

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

Racal Instruments 1260-50C, 200 MHz RF Multiplexer (8 1x4)  
 Racal Instruments 1260-50D, 200 MHz RF Multiplexer (16 1x4)  
 Racal Instruments Option 01\*, Smart Card Module - installed  
 Coax Pin for Model 1260-50C/D  
 1 GHz Cables with pins at each end for Model 1260-50C/D, 2 ft. (-003, 6 ft.; -006, 12 ft.)  
 Mating Connector Backshell  
 Crimp Tool for Coax pin

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

### PART NUMBER

407366-001

407366-002

OPT-401901-005

602220-900

407368-001

602221-126

991040

The EADS North America Defense Test and Services 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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