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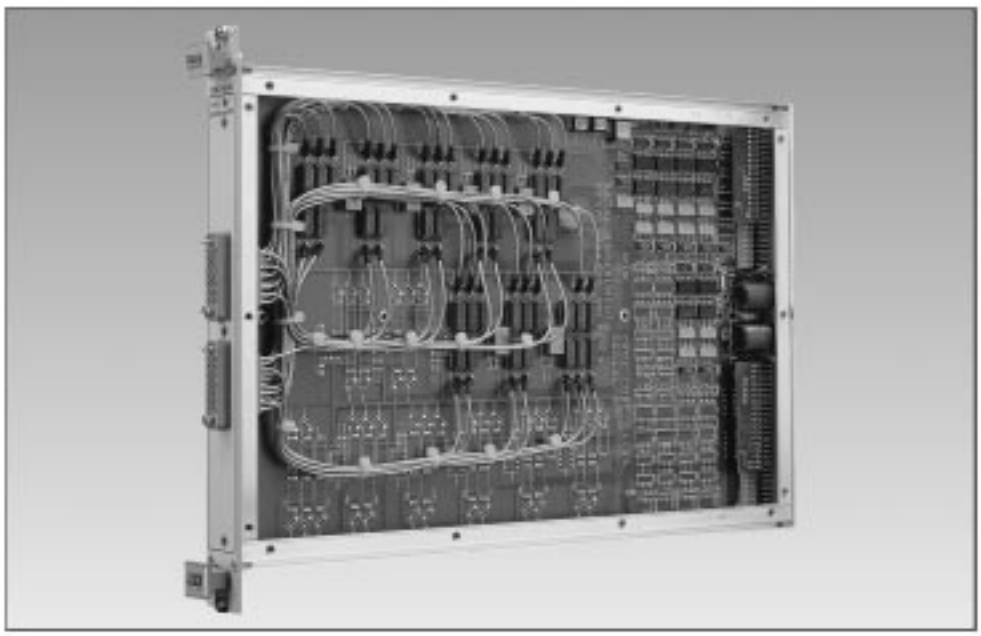
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200MHz RF Multiplexer Module Model 1260-50C/D



- **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.

For your local Racal Instruments Sales Office see page 173.

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_20
With Option 01S/T
Airflow: 2.0 liters/sec
Backpressure: 0.2mm H_20

Power Requirements (I_{pm})
+5V: 0.4A (2.8A with Option 01 installed)
+12V: 0.5A

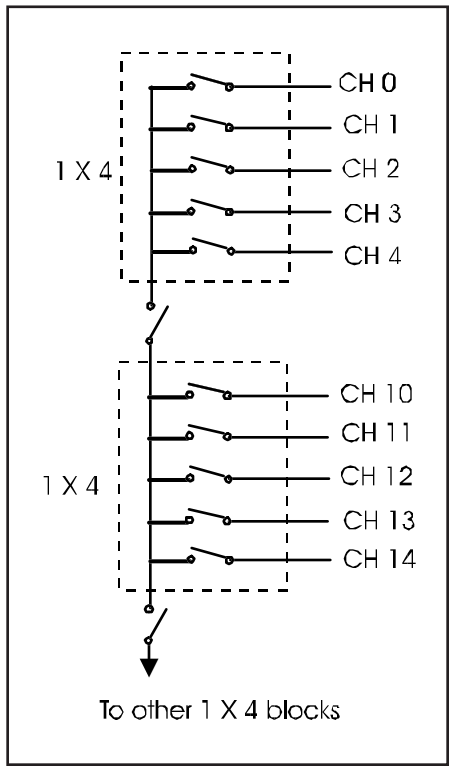
Dimensions
C-size, Single-slot VXIbus Module

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

Life Expectancy
250 x 10^6 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.

WORLDWIDE SUPPORT

http://www.racalinst.com

LLOYD'S REGISTER QUALITY ASSURANCE ISO9001

VXI plug&play

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