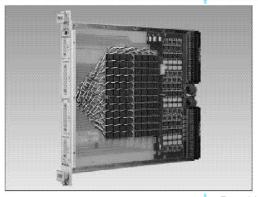
RACAL INSTRUMENTS™ 1260-40



Matrix Switch Module

 Configurable as Any of the Following Matrices:

> One 4x24 Multiplexer Two 4x12 Multiplexers One 8x12 Multiplexer

- 20MHz Bandwidth
- True Matrix
- Switches Signal up to 1A and 250 V
- Non-latching Relays (Open When Power is Lost)

Racal Instruments 1260-40 module provides matrix switching in three configurations. The excellent bandwidth, isolation and crosstalk performance make it ideally suited to the most demanding applications requiring a true matrix.

The 1260-40 may be extended externally through use of expansion connectors located on the front panel. This allows larger matrices to be easily configured.

The 1260-40 utilizes relays at the row inputs of each one of the 4x16 matrix blocks. The guard relays are non-latching and revert to the open state when power is lost, therefore, disconnecting the signal paths to the UUT upon removal of power from the test station. This is an important consideration in ATE because when power is returned to the test station, the UUT is guaranteed not to receive any unwanted signals.

Relay coil current monitoring is available to provide confidence checking which gives the user assurance of proper relay operation.

The 1260-40 is controlled by the Option 01 message-based interface.



1260-40 PRODUCT SPECIFICATIONS

Maximum Switchable Voltage

(Terminal-Terminal or Terminal-Chassis) 250 VDC or VACrms

Maximum Switchable Current

(DC or AC rms)
Per Channel: 1A

Maximum Switchable Power

Per Channel: 30WDC, 62.5VAC

DC PERFORMANCE

Path Resistance

<I

Isolation

 $>10^{10}\Omega$

AC PERFORMANCE (into 50Ω)

Capacitance

Open Channel: <10pF Channel-Chassis: <70pF High-Low: <40pF (typical)

Bandwidth (-3dB)

20MHz (typical)

Insertion Loss (50Ω Termination)

100kHz: <0.3dB 1MHz: <1.0dB 20MHz: <3.0dB

Crosstalk (50Ω Termination)

100kHz: <-70dB 1MHz: <-50dB 10MHz: <-20dB

VXIBUS INTERFACE DATA

Cooling Requirements

Airflow: 1.0 liters/sec Backpressure: 0.05mm H₂0

With Option 01S/T

Airflow: 2.0 liters/sec
Backpressure: 0.2mm H20
Power Requirements (Ipm)

+5V: 0.4A (2.8A with Option 01 installed) +24V: 10 mA per relay (energized)

Weight

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

Dimensions

C-size, Single-slot VXIbus Module

Switch Configuration

-40A - one 4x24 2-wire matrix -40B - one 8x12 2-wire matrix -40C - two 4x12 2-wire matrices

Typical Programming Syntax

Programming syntax is in the form: "<module

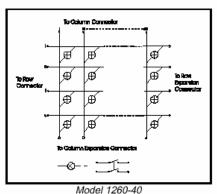
address>.<group>.<row><column>"

Example: CLOSE 3.0205

This CLOSE statement will close the relay in group 0, row 2 and column 5 on the 1260-40 at card address 3.

Note: Module is supplied with one set of mating

connectors. Additional connectors can be ordered using the part numbers shown below.



96 two-wire crosspoints configured as two
4x12 matrices.

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 1260-40A, 2-Wire, 4x24 Matrix
Racal Instruments 1260-40B, 2-Wire, 8x12 Matrix
Racal Instruments 1260-40C, 2-Wire, Dual 4x12 Matrix
Racal Instruments Option 01*, Smart Card Module (installed)
20-Pin User Connector Body Part (2 supplied)

50-Pin User Connector Body (2 supplied)

Solder Type Pins (140 supplied)

Insertion Tool Extraction Tool

PART NUMBER

404775-001 404775-002 404775-003 OPT-401901-005 601855-020

601855-020 601855-050 601857 9099-1

9081-1

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

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.

