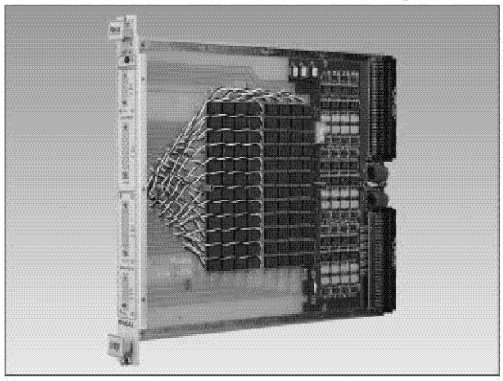
RACAL INSTRUMENTS 1260-40



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 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)
+24V: 10 mA per relay (energized)

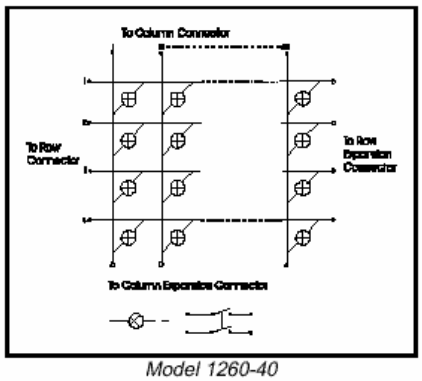
Weight
2.59 lb (1.17 kg) without Option 01
2.87 lb (1.29 kg) with Option 01

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.



Model 1260-40
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	PART NUMBER
Racal Instruments 1260-40A, 2-Wire, 4x24 Matrix	404775-001
Racal Instruments 1260-40B, 2-Wire, 8x12 Matrix	404775-002
Racal Instruments 1260-40C, 2-Wire, Dual 4x12 Matrix	404775-003
Racal Instruments Option 01*, Smart Card Module (installed)	OPT-401901-005
20-Pin User Connector Body Part (2 supplied)	601855-020
50-Pin User Connector Body (2 supplied)	601855-050
Solder Type Pins (140 supplied)	601857
Insertion Tool	9099-1
Extraction Tool	9081-1

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

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