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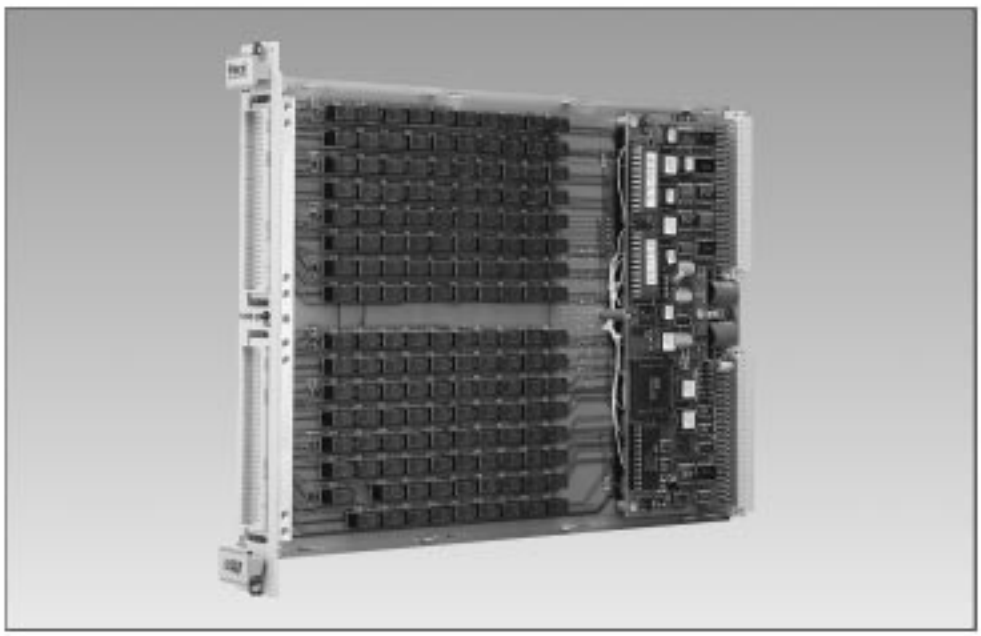
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Find the *Astronics / EADS / Racal 1260-38* at our website: ***Click HERE***

High Density Multiplexer Module Model 1260-38



- **Program Configurable as 1, 2 or 4-wire Muxes**
- **Muxes are configurable as 1x8, 1x16, 1x32, 1x64, 1x128 and 1x256**
- **30MHz Bandwidth (1x8 Configuration)**
- **Switches Signals Up to 2 Amps or 250VAC**
- **Onboard Series Components Available**
- **Uses Racal Option 01 Smart Switch Card**

Model 1260-38 is a high-density scanner and multiplexer, ideal for applications with large switch requirements such as continuity testing and audio or telephone line switching.

The 1260-38 can be user-configured in many ways, from one 1x128 to sixteen 1x8 2-wire multiplexers, switching up to 250VDC or 2A per channel. Configuration is programmable using interconnecting relays. An additional relay that selects between the high and low sides of the two-wire mode allows the 1260-38 to act as a 1-wire scanner over 256 points. Four-wire switching is also possible by connecting two-wire sections in parallel using internal relays.

Relay coil current monitoring is available to provide confidence checking which gives the user assurance of proper relay operation. Built-in 100Ω resistors may be placed in series with common connections to attenuate current and voltage spikes.

The 1260-38 is controlled by the Option 01 message-based interface which is explained in detail in the Smart Control Module page. All 1260 control features explained on that page are available to this module.

For your local Racal Instruments Sales Office see page 173.

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1260-38 Specifications

DC PERFORMANCE

Maximum Switching Voltage
220VDC or 250VAC

Maximum Switching Current
2ADC or 2AAC

Maximum Switching Power
60W, 125VA

Path Resistance
1x64 (2-wire): < 0.5Ω
1x128 (2-wire): <0.75Ω

Thermal EMF
1x8 (2-wire): <15µV
1x128 (2-wire): <20µV

AC PERFORMANCE (into 50Ω)

Bandwidth (-3 dB)
1x8, 1x16 (2-wire): 30MHz (35MHz typ.)
1x128 (2-wire): 2MHz (2.3MHz typ.)

Insertion Loss

Configuration	100kHz	1MHz	10MHz
1x8 (2-wire)	<0.1dB	<0.25dB	<1.7dB
1x16 (2-wire)	<0.1dB	<0.25dB	<2.0dB
1x128 (2-wire)	<0.2dB	<1.0dB	——-

Crosstalk
100kHz: <-55dB
1MHz: <-50dB

Isolation (1x8)
100kHz: >40dB
1MHz: >35dB

Capacitance
1x8 (closed Chan.-Chassis): <5pF
1x8 (closed Chan. Hi-Lo): <120pF (50pF typ.)
1x8 (Open Chan. Hi-Lo): <50pF (20pF typ.)
1x128 (Closed Chan. Hi-Lo): <600pF (480pF typ.)

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

Peak and Dynamic Current

	+24V	+5V	+5V w/Option 01
I_{Pm}	6mA*	400mA	2.8A
I_{Dm}	0mA	75mA	225mA

** per energized relay*

Dimensions
C-size, Single-slot VXIbus Module

ENVIRONMENTAL DATA

Temperature
Operating: 0°C to 55°C
Storage: -40°C to 75°C

Humidity
<30°C: 95%, ±5%, non-condensing
30°C - 40°C: 75%, ±5%
>40°C: 45%, ±5%

Altitude
Operating: 10,000 ft.
Non-Operating: 15,000 ft.

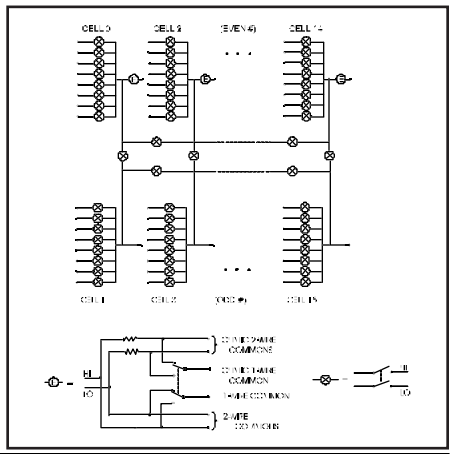
Vibration
0.013inch: double amplitude 5-55Hz

Weight
Slave: 3.2 lb (1.45 kg)
With Option 01: 3.5 lb (1.60 kg)

Rated Switch Operations
No load: 100,000,000
2A@50VDC: 100,000

Typical Programming Syntax
Programming syntax is in the form: "<module address>.<channel number>" Example: CLOSE 3.04 This CLOSE statement will close channel number 4 on the 1260-38 at card address 3.
Note: Available mating connectors and accessories are listed below.

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**
1260-38	High Density Multiplexer	407410
Option 01*	Smart Control Module (installed)	OPT-401901-005
407407	160 Pin Mating Connector Kit w/Backshell and Pins(1260-38 uses two)	407407
990898	Insertion Tool	990898
990899	Extraction Tool	990899
407408	160 Pin Cable Assembly, 24 Ga, 6 Feet (1260-38 uses two)	407408
407409	160 Pin Cable Assembly, 24 Ga, 12 Feet (1260-38 uses two)	407409

*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

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VXI plug&play

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