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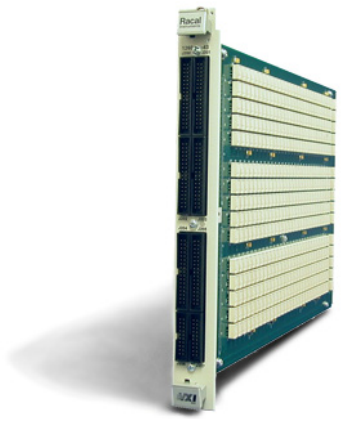
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Racal Instruments™ 1260-43

Ultra High-Density Matrix Module

The Racal Instruments™ 1260-43 is an ultra high-density matrix switch card. Each module consists of three 8x24 single-wire matrices, which are interconnected via a 10-lane, single-wire bus. On-board configuration relays allow software control of the matrix configuration.

Key Features

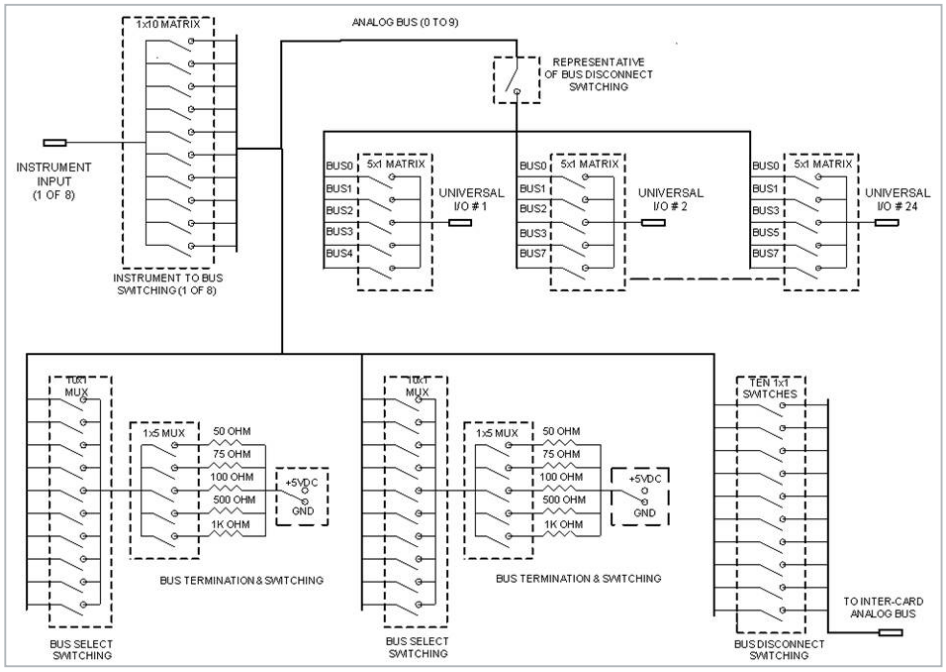
- **Three 8x24 matrices in a single VXI slot**
- **10-lane programmable matrix expansion bus allows the construction of multiple small MxN matrices or very large matrices**
- **Programmable load terminations**
- **Link multiple modules via the front panel**

Product Information

With its combination of density, versatility, expandability, and excellent signal integrity, the 1260-43 is ideal for constructing large switching systems. Multiple modules can be linked together via a front panel 10-Lane bus allowing the user to construct very large matrices. It allows great flexibility in the connection of a large numbers of instruments to a large number of test points. Designed for single-wire 50 Ω operation and featuring exceptional signal isolation, the 1260-43 is an excellent choice for audio, video, telecom, datacom, and ATE systems testing.

A Racal Instruments™ Option 01T is required to communicate with this module and must be installed in a module that is adjacent, to the left, to this one in the VXI chassis.

An IVI-COM driver is available for this module.



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Specifications

Note: The EADS North America Test and Services policy is one of continuous development and improvement. Consequently, the equipment may vary in detail from the description and specifications in this publication.

Input Performance

Maximum Switching Voltage
- 220 VDC or 250 VAC

Maximum Switching Current
- 2 ADC or 2 AAC

Maximum Switching Power
- 60 W, 62.5 VA

DC Performance (Initial)

Path Resistance
- 8x24 configuration: <900 mΩ @ 1 A; 1.1 Ω @ 1 mA
- 1x4 configuration: <500 mΩ @ 1A; <600 mΩ at 1 mA

Note: When using expansion bus in configuration, add an additional 500 mΩ

Insulation Resistance
- $>10^9$ mΩ

Module Capacitance
- <300 pF (8x24 configuration)
- <250 pF (1x4 configuration)

Note: Additional 50 pF when using expansion bus in configuration

Thermal EMF
- <10 µV

Impedance
- 50 Ω

AC Performance (Into 50 Ω)

Bandwidth (-3 dB)
- >75 MHz (8x24 configuration)
- >100 MHz (1x4 configuration)

Insertion Loss
- 8 x 24 Configuration
  10 MHz: <1.0 dB
  40 MHz: <3.0 dB
- 1 x 4 Configuration
  10 MHz: <1.0 dB
  40 MHz: <2.5 dB

Isolation
- 8 x 24 Configuration
  100 kHz: >80 dB
  1 MHz: >60 dB
  10 MHz: >40 dB
- 1 x 4 Configuration
  100 KHz: >80 dB
  1 MHz: >60 dB
  10 MHz: >40 dB

Crosstalk
- 8 x 24 Configuration
  100 kHz: <-70 dB
  1 MHz: <-55 dB
  10 MHz: <-38 dB
- 1 x 4 Configuration
  100 KHz: <-70 dB
  1 MHz: <-60 dB
  10 MHz: <-40 dB

Noise Floor
- 100 Hz B/W, 0 to 10 MHz: <100 dBm

Leakage to Ground
- >100 MΩ

Impulse Withstanding Voltage
- >1000 V_{rms}

Terminations
- There is one load set for each 8X24 matrix consisting of one pull-up (to +5 V)/one pull-down (to ground). The load set is individually programmable to the following values and accuracies:
  50 Ω +15/-5 Ω, 3/4 W
  75 Ω +17.5/-7.5 Ω, 3/4 w
  100 Ω +20/-10 Ω, 3/4 w
  500 Ω +60/-50 Ω, 3/4 w
  1000 Ω +110/-100 Ω, 3/4 w

Interface

Front Panel Connector
- Eight, Two Row IDC Connectors:
  – Six, 34 pin, 0.1” pitch
  – Two, 20 pin, 0.1” pitch

Power Requirements
- +5 VDC at 8.5 A
- +5 VDC at 20 mA per energized relay

Environmental

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

Relative Humidity
- 85% ±5%, non-condensing at <30° C

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

Shock
- 30 g, 11 ms, ½ sine wave

Vibration
- 0.013 in: (pk-pk), 5 to 55 Hz

Bench Handling
- 4-inch drop at 45°

Emissions
- EN55011A with limits in accordance with EN50081-1

Immunity
- IEC901-2,3,4 with limits in accordance with EN50082-1

Safety
- EN61010-1
- Impulse Withstand 1000 V

Switching Time
- <10 ms

Rated Switch Operations
- Mechanical: 1×10^8
- Electrical: 500,000 @ 30 V/1 A

MTBF
- 25,535 hrs, with relays (25 ° C) (50% rated load, 0.1 cycle/hr)

Mechanical

Weight
- 4.7 lbs

Dimensions
- C-size single slot VXIbus module

Cooling Requirements
- Airflow: 5.6 l/s
- Backpressure: 0.59 mm H_2O

* Operation at 15,000 feet requires de-rating of maximum overall power dissipation to 65 W

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Ordering Information

Note: Compatible smart controller: A smart card must be installed in the left-most slot of a set of 1260-xx series switch cards. Two 1260 series smart cards exist:

- Option 01: Native command set. Not compatible with this 1260-xx series switch card and cannot be used.
- Option 01T: SCPI command set. Compatible with this 1260-xx series switch card and must be used in the chain.

408006* : Racal Instruments™ 1260-43

Three 8x24 High-Density Switch Matrix, 1 bit 'Output Bus' Shift

408006-001 : Racal Instruments™ 1260-43

Three 8x24 High-Density Switch Matrix, 3 bit 'Output Bus' Shift

Options and Accessories:

OPT-405108-001 : Racal Instruments™ Option 01T Smart Card Module (installed)

602715-001 : 10 Lane Bus Module Interconnect Cable, 4 in

602780 : 10 Lane Bus Module Interconnect Cable, 4 in with built-in 2-bit 'Output Bus' Shift

602715-002 : 20-pin Mating Cable Assembly, 3 ft

602715-003 : 34-pin Mating Cable Assembly, 3 ft

*Note – A 604780 cable should be used when daisy-chaining 408006's together in order to meet the IFTE specifications

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