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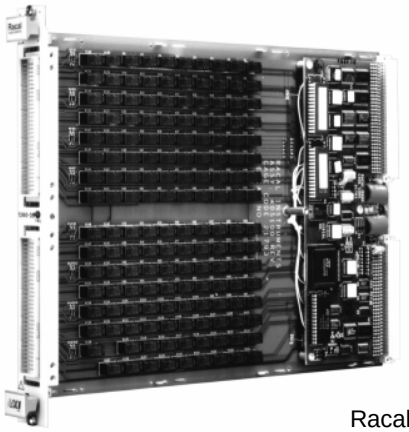
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Find the *Astronics / EADS / Racal 1260-38* at our website: ***Click HERE***

RACAL INSTRUMENTS™ 1260-38T



Shielded High-Density Scanner/Multiplexer

- **Sixteen 1x8 Two-wire Scanner/Multiplexer**
- **Link Muxes up to 1x128 Under Program Control**
- **30MHz Bandwidth**
- **Switches up to 2A and 220VDC/250VAC**
- **Two and Four-wire Switching Modes**
- **High Isolation/Low Crosstalk Design**

Racal Instruments 1260-38T with its combination of density, versatility, expandability, and high signal integrity, is ideal for construction of large switching systems. It is an excellent choice for continuity testing, audio and telecomm switching, and multi-purpose ATE systems.

This module is user-configurable using inter-connecting relays as sixteen 1x8 muxes to a 1x128 mux under program control. Four-wire switching is accomplished by switching adjacent channels simultaneously.

Special shielding, design, and added front panel “guard” grounds increase the isolation and lower the crosstalk.

All relays are bi-directional, enabling use as either a scanner or multiplexer. Each (1x8) multiplexer can be used to connect any combination of up to 8 two-wire signals to a two-wire common. These commons can be linked under program control to construct any combination of larger multiplexers.

The Option 01 or 01T switch controller is required to communicate with the 1260-38T. The Option 01 should be used for applications with existing Option 01 software, but for all new applications the Option 01T should be used. The Option 01T provides message-based operation for ease of use and register-based operation for maximum speed.

The Option 01T mounts on the leftmost 1260 Series module or Adapt-a-Switch™ and does not consume any VXI or Plug-in slots. It provides a single point of software control for the switching system with advanced features such as include, exclude, scan, relay monitoring, user defined path names, and reset states.

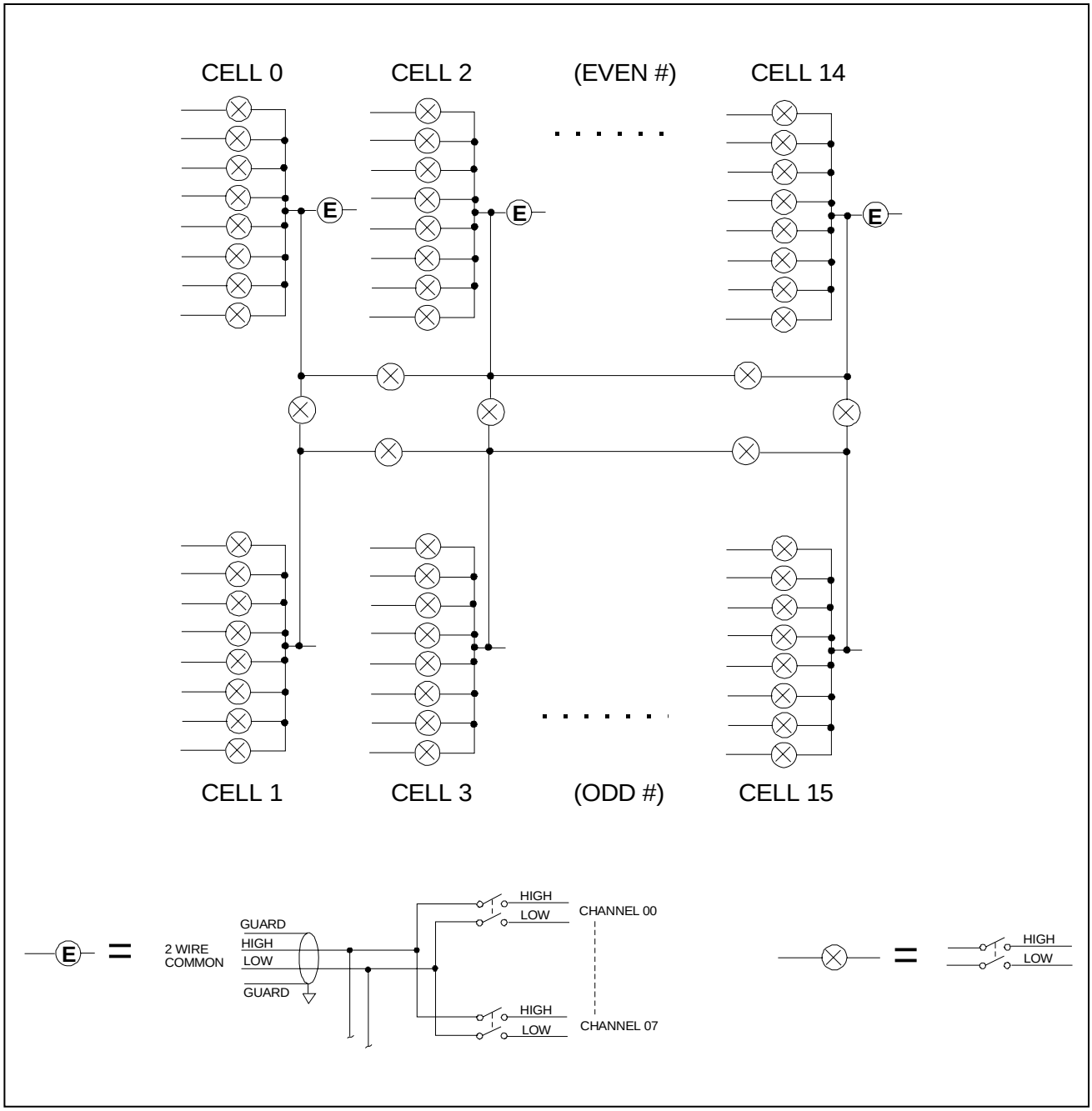
The scan feature is particularly useful with the 1260-38T; it permits scanning through a pre-defined list of closures across the entire switching system using the VXI TTL triggers. This can be used to construct a scanning DMM, counter, or other instrument. A block of measurements can be stored in the instrument’s memory for a single read-back, reducing test time.

The 1260 series includes VXIplug&play support for WIN95/NT frameworks, including drivers for LabWindows/CVI and LabView.

EADS NORTH AMERICA DEFENSE

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1260-38T BLOCK DIAGRAM



1260-38T Block Diagram

1260-38T PRODUCT SPECIFICATIONS

INPUT

Maximum Switching Voltage
220VDC or 220VAC

Maximum Switching Current
2ADC or 2AAC

Maximum Switching Power
60W, 125VA

DC PERFORMANCE

Path Resistance
1x8 (2-wire): <750MΩ
1x128 (2-wire): <1Ω

Insulation Resistance
$10^9\Omega$

Thermal EMF
1x8 (2-wire): <15μV
1x64 (2-wire): <20μV

AC PERFORMANCE

Bandwidth (-3 dB)
1x8: >30MHz
1x128: >2MHz

Insertion Loss (1X8)
100kHz: <0.1dB
1MHz: <0.2dB
10MHz: <0.25dB

Isolation (1x8)
10MHz: >45dB
30MHz: >30dB

Crosstalk (1X8)
10MHz: <-50dB
30MHz: <-34dB

Capacitance
1x8 (Channel to Chassis): <5pF
1x8 (Hi to Lo): <120pF
1x64 (Hi to Lo): <600pF

INTERFACE DATA

Cooling Requirements
Without Option 01 or 01T installed:
Airflow: 0 liters/sec
Backpressure: 0.05mm H_20
With Option 01 or 01T installed:
Airflow: 3.0 liters/sec
Backpressure: 0.2mm H_20

Power Requirements
Without Option 01 or 01T installed:
+5V Static Current, $I_{pm:}$ 0.4A
+5V Dynamic Current, $I_{dm:}$ 0.075A
With Option 01 or 01T installed:
+5V Static Current, $I_{pm:}$ 2.5A
+5V Dynamic Current, $I_{dm:}$ 0.225A
+24V Static Current, $I_{pm:}$ 6mA per energized relay
+24V Dynamic Current, $I_{dm:}$ 0A

MECHANICAL

Weight
Without Option 01 or 01T installed:
3.2lb (1.45kg)
With Option 01 or 01T installed:
3.5lb (1.60kg)

Dimensions
C-size, Single-slot VXIbus Module

Front Panel I/O Interface Connector
Two 160 pin DIN Connector

ENVIRONMENTAL DATA

Temperature
Operating: 0ºC to 55ºC
Storage: -40ºC to 75ºC

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

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

Shock
30g, 11 ms, ½ sine wave

Vibration
0.013inch P-P, 5-55Hz

Bench Handling
4 in. drop at 45º

RELIABILITY

Switching Time
<5ms max. (includes settling time)

Rated Switch Operations
Mechanical: 100,000,000 operations
Electrical: 100,000 operation at full rated load

MTBF
MIL-HDBK-217E 16,570 hrs.

EMC

Emissions
EN55011A with limits in accordance with EN50081-1

Immunity
IEC801-2,3,4 with limits in accordance with EN50082-1

Safety
EN61010-1

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 1260-38T, Shielded High Density Multiplexer	407410-001
Racal Instruments Option 01, Smart Control Module (installed)	OPT-401901-005
Racal Instruments Option 01T, Smart Control Module (installed)	OPT-407531-00
160-pin Mating Connector Kit, w/ Backshell and Pins(1260-38T uses two)	407407
Insertion Tool	990898
Extraction Tool	990899
160-pin Cable Assembly, 24Ga., 6 Feet (1260-38T uses two)	407408
160-pin Cable Assembly, 24Ga., 12 Feet (1260-38T uses two)	407409

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.

EADS North America Defense Test and Services
1.800.722.2528/1.949.859.8999 sales@eads-nadefense.com

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