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Data Sheet

August 13, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 1260-38 High Density Multiplexer Module

Astronics / EADS / Racal 1260-38 High-Density Multiplexer Module The Astronics / EADS / Racal 1260-38 is a single-slot C-size VXIbus high-density scanner/multiplexer configurable from one 1×128 two-wire multiplexer to sixteen 1×8 two-wire multiplexers (also 1×16, 1×32, 1×64, and 1×256 one-wire class). Programmable interconnect relays support 1-, 2-, and 4-wire mux topologies. Channels switch up to 250 VAC / 220 VDC and 2 A (60 W / 125 VA). Bandwidth is about 30 MHz in 1×8 configuration and about 2 MHz in 1×128 configuration. Thermal EMF is under 15 uV (1×8) and under 20 uV (1×128). Path resistance is under 0.5 ohm (1×64) and under 0.75 ohm (1×128). Controlled by Option 01 or Option 01T. The Astronics / EADS / Racal 1260-38 is a single-slot C-size VXIbus high-density scanner/multiplexer configurable from one 1×128 two-wire multiplexer to sixteen 1×8 two-wire multiplexers (also 1×16, 1×32, 1×64, and 1×256 one-wire class). Programmable interconnect relays support 1-, 2-, and 4-wire mux topologies. Channels switch up to 250 VAC / 220 VDC and 2 A (60 W / 125 VA). Bandwidth is about 30 MHz in 1×8 configuration and about 2 MHz in 1×128 configuration. Thermal EMF is under 15 uV (1×8) and under 20 uV (1×128). Path resistance is under 0.5 ohm (1×64) and under 0.75 ohm (1×128). Controlled by Option 01 or Option 01T. Large continuity and telephone/audio switching trees; programmable 1/2/4-wir



MODEL

**Astronics / EADS /
Racal 1260-38**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

1260-38

LISTING

<https://aumictechlabs.com/products/1260-38-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Astronics 1260-38 is a high-density multiplexer module engineered for signal routing and switching in automated test equipment and complex measurement systems. This single-slot C-size VXI module supports configurable 1, 2, and 4-wire switching topologies, operating as sixteen independent 1×8 two-wire scanners or linked to construct multiplexers up to 1×256. It delivers switching performance with less than 5 ms maximum switching time, greater than 30 MHz bandwidth in 1×8 configuration, and isolation exceeding 45 dB at 10 MHz. The module handles 220/250 VDC or VAC at 2 A maximum, with mechanical reliability rated at 100,000,000 operations and 16,570 hours MTBF per MIL-HDBK-217E. Technical Specifications Electrical Performance Maximum switching: 220/250 VDC or VAC, 2 ADC or 2 AAC Maximum switching power: 60 W, 125 VA Path resistance (1×8, 2-wire): $10^9 \Omega$ Thermal EMF (1×8, 2-wire): $<15 \mu\text{V}$ Channel-to-chassis capacitance (1×8): $<5 \text{ pF}$ Insertion loss (1×8): $<0.1 \text{ dB}$ at 100 kHz Crosstalk (1×8): 45 dB at 10 MHz Bandwidth (1×8): $>30 \text{ MHz}$ Switching and Reliability Maximum switching time: $<5 \text{ ms}$ (including settling) Mechanical operations: 100,000,000 cycles Rated operations at full load: 100,000 cycles MTBF: 16,570 hours (MIL-HDBK-217E) Relay coil current monitoring available Environmental Operating temperature: $0\text{--}55^\circ\text{C}$ Relative humidity: $85 \pm 5\%$ non-condensing ($<30^\circ\text{C}$) Operating altitude: up to 10,000 ft Shock: 30 g, 11 ms, $\frac{1}{2}$ sine wave Vibration: 0.013 in pk-pk, 5–55 Hz Key Features Configurable as 1, 2, or 4-wire multiplexers Supports one-wire scanning over 256 points with additional relay for high/low selection Cascadable with other 1260-series modules for larger switching systems Built-in 100Ω series resistors to attenuate current and voltage spikes Four-wire switching via parallel two-wire relay sections Typical Applications Continuity testing Audio and telecommunications switching General-purpose automated test equipment Multi-channel signal routing and management Compatibility & Integration The 1260-38 integrates into VXI instrumentation platforms as a standard C-size single-slot module, with expansion capability through cascading compatible 1260-series multiplexer modules.

Features & description

From manufacturer datasheet

Features

- Program configurable as 1-, 2-, or 4-wire muxes

1260 Characteristics / Specifications

PARAMETER	VALUE
Model	1260-38
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	High-density VXI multiplexer / scanner
Form Factor	C-size, single-slot VXI
Configuration Range	1×128 to 16×8 two-wire mux class
Other Configurations	1×8, 1×16, 1×32, 1×64, 1×256 (1-wire) class
Maximum Switching Voltage	220 VDC or 250 VAC
Maximum Switching Current	2 A DC or 2 A AC
Maximum Switching Power	60 W, 125 VA
Crosstalk 100 kHz	less than -55 dB
Crosstalk 1 MHz	less than -50 dB
Insertion Loss 1×8 at 100 kHz	less than 0.1 dB
Isolation 1×8 at 100 kHz	greater than 40 dB
Control	Option 01 or Option 01T
Ordering	407410
User Connectors	dual 160-pin mating kits (407407 class; two per module)
Weight Slave	about 3.2 lb (1.45 kg); with Option 01 about 3.5 lb
Operating Temperature	0 to 55 C
Rated Switch Operations No Load	100000000
Rated Switch Operations 2 A at 50 VDC	100000 Notes Specs from Astronics Racal Instruments 1260-38 datasheet. Confirm Option 01 vs 01T, programmed mux topology, and 160-pin cable assemblies before integration.
Bandwidth	is about 30 MHz in 1×8 configuration and about 2 MHz in 1×128 configuration. Thermal EMF is under 15 uV (1×8) and under 20 uV (1×128). Path resistance is under 0.5 ohm (1×64) and under 0.75 ohm (1×128). Controlled by Option 01 or Option 01T.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C
Operating Temperature	0 to 55 C
Rated Switch Operations No Load	1000000000
Rated Switch Operations 2 A at 50 VDC	100000 Notes Specs from Astronics Racal Instruments 1260-38 datasheet. Confirm Option 01 vs 01T, programmed mux topology, and 160-pin cable assemblies before integration.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	1260-38
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	High-density VXI multiplexer / scanner
Specifications	
PARAMETER	VALUE
Form Factor	C-size, single-slot VXI
Configuration Range	1x128 to 16x8 two-wire mux class
Other Configurations	1x8, 1x16, 1x32, 1x64, 1x256 (1-wire) class
Specifications	
PARAMETER	VALUE
Maximum Switching Voltage	220 VDC or 250 VAC
Maximum Switching Current	2 A DC or 2 A AC
Maximum Switching Power	60 W, 125 VA
Path Resistance 1x64 2-wire: less than 0.5 ohm	
Path Resistance 1x128 2-wire: less than 0.75 ohm	
Thermal EMF 1x8 2-wire: less than 15 uV	
Thermal EMF 1x128 2-wire: less than 20 uV	
Bandwidth 1x8/1x16 2-wire: 30 MHz (35 MHz typical)	
Bandwidth 1x128 2-wire: 2 MHz (2.3 MHz typical)	
Specifications	
PARAMETER	VALUE
Crosstalk 100 kHz	less than -55 dB
Crosstalk 1 MHz	less than -50 dB
Insertion Loss 1x8 at 100 kHz	less than 0.1 dB
Isolation 1x8 at 100 kHz: greater than 40 dB	
Control: Option 01 or Option 01T	

Ordering: 407410

Specifications

PARAMETER	VALUE
User Connectors	dual 160-pin mating kits (407407 class; two per module)
Weight Slave	about 3.2 lb (1.45 kg); with Option 01 about 3.5 lb
Operating Temperature	0 to 55 C

Rated Switch Operations No Load: 100000000

Rated Switch Operations 2 A at 50 VDC: 100000

Notes

Specs from Astronics Racal Instruments 1260-38 datasheet. Confirm Option 01 vs 01T, programmed mux topology, and 160-pin cable assemblies before integration.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.