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Data Sheet

August 2, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 1260-45C High-Density Switch Matrix (Option 01 or 01T Compatible)

The Astronics/EADS/Racal 1260-45C is a high-density VXIbus switch matrix engineered for complex signal routing in automated test equipment and demanding measurement applications. This single-slot C-size module delivers configurable matrix architectures ranging from four 4×16 two-wire matrices to a single 16×16 two-wire matrix, with external extension capability for larger configurations within a VXI chassis. Compatible with Option 01 and Option 01T smart controllers, the 1260-45C integrates into both legacy and modern test systems. Eleven configurable matrix topologies: four 4×16, two 4×32, two 8×16, and single 16×16 two-wire matrices Maximum switching: 1 A or 250 VDC per channel; 300 VDC/ACrms terminal-to-terminal or terminal-to-chassis Capacitance Hi-to-Lo: < 50 pF (open channel), < 80 pF (closed channel) Relay Control


MODEL
**Astronics / EADS /
Racal 1260-45C**
CALIBRATION
**Available on
request**
CONDITION
Used
STATUS
In stock
RFQ / SKU
1260-45C
LISTING
<https://aumictechlabs.com/products/1260-45c-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

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two-wire matrices to a single 16×16 two-wire matrix, with external extension capability for larger configurations within a VXI chassis. Compatible with Option 01 and Option 01T smart controllers, the 1260-45C integrates into both legacy and modern test systems.

Technical Specifications

Matrix Architecture & Switching Performance Eleven configurable matrix topologies: four 4×16, two 4×32, two 8×16, and single 16×16 two-wire matrices

Maximum switching: 1 A or 250 VDC per channel; 300 VDC/ACrms terminal-to-terminal or terminal-to-chassis

Maximum switchable power: 30 WDC or 62.5 VA per channel

Path resistance ≤ 500 mΩ; **isolation** > 2 GΩ

Crosstalk at 1 MHz: < -50 dB

Frequency Response & Signal Integrity Bandwidth (-3 dB): 25 MHz (4×16 and 4×32), 20 MHz (4×64), 10 MHz (16×16)

Capacitance Hi-to-Lo: < 50 pF (open channel), < 80 pF (closed channel)

Relay Control Non-latching guard relays at row inputs revert to open state on power loss, protecting UUT from unwanted signals

Bypass jumper option enables full latching relay configuration for signal path maintenance during power interruptions

VXIbus & Power Single-slot C-size VXIbus module

Power: +5 V at 0.4 A (2.8 A with Option 01)

Cooling: 1.0 liters/sec airflow, 0.05 mm H₂O backpressure (2.0 liters/sec, 0.2 mm H₂O with Option 01S/T)

Key Features Dual connector options: crimp (discrete wire) or IDC (ribbon cable)

Message-based Option 01 interface or Option 01T (SCPI + register-based, VXIplug&play support)

Weight: 3.07 lb (1.38 kg) without Option 01; 3.35 lb (1.51 kg) with Option 01

Typical Applications Complex signal routing, mixed-signal ATE, power switching verification, relay matrix expansion

Compatibility & Integration Racal Instruments Option 01 (native command set) and Option 01T (SCPI + high-speed register control) smart controllers

Features & description

From manufacturer datasheet

Features

- Factory dual 8×16 two-wire matrix configuration (1260-45C)
- Part of 1260-45 family with eleven configurable matrix options
- Latching relays; non-latching guard relays (jumper bypass available)
- 25 MHz bandwidth (4×16 configuration class)
- Switches up to 1 A and 300 VDC/ACrms
- 30 WDC / 62.5 VA per channel max
- Option 01 or 01T compatible control
- C-size single-slot VXI module
- Crimp or IDC front connector variants

126045C Characteristics / Specifications

PARAMETER	VALUE
Model	1260-45C
Manufacturer	Astronics Test Systems / EADS / Racal Instruments
Instrument Type	High-density VXI switch matrix
Form Factor	C-size, single-slot VXI
Factory Configuration	two 8×16 two-wire matrices
Max Switching Voltage	300 VDC or ACrms
Max Switching Current	1 A DC or ACrms per channel
Max Switching Power	30 WDC, 62.5 VA per channel
Path Resistance	less than or equal to 500 mOhm (family datasheet)
Insulation	greater than 2 GOhm (family datasheet)
Ordering	407052-003 (1260-45C CRIMP, two 8×16); 407052-103 (1260-45C IDC, two 8×16)
Related	1260-45A (quad 4×16); 1260-45B (dual 4×32) Standard Operating Conditions Install Option 01 or 01T in the leftmost 1260-series module of the switch set. Observe cooling airflow (about 2.0 l/s with Option 01/01T class). Use mating crimp or IDC hardware per ordering suffix.
Bandwidth	(4×16 configuration class) - Switches up to 1 A and 300 VDC/ACrms - 30 WDC / 62.5 VA per channel max - Option 01 or 01T compatible control - C-size single-slot VXI module - Crimp or IDC front connector variants

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

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PARAMETER	VALUE
Model	1260-45C
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Instrument Type	High-density VXI switch matrix
Form Factor	C-size, single-slot VXI
Factory Configuration	two 8x16 two-wire matrices
Max Switching Voltage	300 VDC or ACrms
Max Switching Current	1 A DC or ACrms per channel
Max Switching Power	30 WDC, 62.5 VA per channel

Bandwidth (-3 dB): 25 MHz (4x16 class); 10 MHz (16x16 family class)
Path Resistance: less than or equal to 500 mOhm (family datasheet)
Insulation: greater than 2 GOhm (family datasheet)
Ordering: 407052-003 (1260-45C CRIMP, two 8x16); 407052-103 (1260-45C IDC, two 8x16)
Related: 1260-45A (quad 4x16); 1260-45B (dual 4x32)

Standard Operating Conditions

Install Option 01 or 01T in the leftmost 1260-series module of the switch set. Observe cooling airflow (about 2.0 l/s with Option 01/01T class). Use mating crimp or IDC hardware per ordering suffix.

Operational Notes

Confirm 1260-45C vs 45A/45B factory jumper configuration before reconfiguration. Guard-relay behavior affects UUT protection on power-down-select bypass only when latched paths are required. External matrix expansion is possible via front-panel pinout but may affect high-frequency response.

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.