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Data Sheet

August 15, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 4072 Resistance Module

Astronics Racal EADS 4072 Resistance Module The Astronics/EADS/Racal 4072 isaVXI resistance module for precision resistance simulation and measurement stimulus in automated test systems. OEM Racal Instruments switching/source module catalogs describe programmable resistance paths for TPS migration and legacy ATS support. Automated resistance simulation for sensor emulation, continuity and load testing, and VXI-based ATS stimulus. Control Style: message based module class The Astronics/EADS/Racal 4072 isaVXI resistance module for precision resistance simulation and measurement stimulus in automated test systems. OEM Racal Instruments switching/source module catalogs describe programmable resistance paths for TPS migration and legacy ATS support. Automated resistance simulation for sensor emulation, continuity and load testing, and VXI-based ATS stimulus. Control Style: message based module class Related Modules: 7064 prototyping 2108 serial



MODEL

**Astronics / EADS /
Racal 4072**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

4072

LISTING

[https://aumictechlabs.c
om/products/4072-2/](https://aumictechlabs.com/products/4072-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Astronics/EADS/Racal 4072 Resistance Module is a programmable dual-channel resistance module designed for precision calibration, testing, and sensor simulation in VXIbus systems. Each channel provides four decades of resistance selection with 0.01% resolution across ranges from 0.1 Ω to 1 M Ω , delivering accuracy down to $\pm(0.015\% + 200 \text{ m}\Omega)$ on the standard 4072 model. The

module supports independent or paired-channel configuration and operates within a 3 W power dissipation limit, making it suitable for high-accuracy measurement applications and digital control of potentiometric circuits. Technical Specifications Channels: Dual, configurable as one or two independent channels Decades per Channel: 4 Resolution: 0.01% Resistance Range: 0.1 Ω to 1 M Ω Accuracy (Model 4072): $\pm(0.015\% + 200 \text{ m}\Omega)$ Accuracy (Model 4072A): $\pm(0.05\% + 200 \text{ m}\Omega)$ Accuracy (Model 4073): $\pm(0.1\% + 800 \text{ m}\Omega)$ Available Ranges: 0–999.9 Ω (0.1 Ω step), 0–9999 Ω (1 Ω step), 0–99.99 k Ω (10 Ω step), 0–999.9 k Ω (100 Ω step) Input Impedance: 100 M Ω @ 23°C Maximum Power Dissipation: 3 W Module Configuration: Single-slot VXIbus module Key Features SCPI-compatible programming for automated test integration VXIbus trigger capability via TTL trigger lines Four-decade resistance selection per channel with fine 0.01% resolution Low input impedance loading at 100 M Ω Software drivers available for LabWindows/CVI, LabVIEW, and VXI plug-and-play environments Typical Applications Precision resistance calibration and verification Temperature and sensor simulation for test systems Digital potentiometer control in process measurement High-accuracy current measurement when paired with digital voltmeters Industrial control and measurement circuits requiring stable reference resistances Compatibility & Integration The 4072 series integrates directly into VXIbus instrument chassis. SCPI command compatibility enables straightforward integration into automated test sequences. Standard VXI plug-and-play driver support accelerates deployment in LabVIEW and LabWindows/CVI environments.

4072 Characteristics / Specifications

PARAMETER	VALUE
Model	4072
Instrument Type	VXI resistance module
Bus Standard	VXI
Form Factor	single slot VXI class
Function	programmable resistance
Control Style	message based module class
Series Family	Racal Instruments VXI
Brand Lineage	Racal EADS Astronics
Related Modules	7064 prototyping 2108 serial
Operating Temperature Class	0 C to 55 C ATS class
Power Rails	VXI backplane powered
Use Case	resistance simulation
Accuracy Class	precision resistance class OEM catalog
Range Class	multi decade resistance class
Resolution Class	fine ohm steps class
Switch Path	relay switched resistance network class
Connector	VXI front panel I/O class
Humidity Class	noncondensing lab
Altitude Class	standard lab altitude
Storage Temperature Class	minus 40 C to 70 C class
MTBF Class	modular ATS MTBF class
Manufacturer	Astronics Test Systems legacy Racal
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C ATS class
Humidity	Class: noncondensing lab

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C ATS class
Operating Temperature	Class: 0 C to 55 C ATS class
Humidity	Class: noncondensing lab
Operating Temperature Class	0 C to 55 C ATS class
Power Rails	VXI backplane powered
Use Case	resistance simulation
Accuracy Class	precision resistance class OEM catalog
Range Class	multi decade resistance class
Resolution Class	fine ohm steps class
Switch Path	relay switched resistance network class
Connector	VXI front panel I/O class
Humidity Class	noncondensing lab
Altitude Class	standard lab altitude
Storage Temperature Class	minus 40 C to 70 C class
MTBF Class	modular ATS MTBF class
Manufacturer	Astronics Test Systems legacy Racal Notes Identity and capability rows from Astronics/EADS/Racal 4072 resistance module catalog descriptions. Exact ohm ranges and accuracies are on the 4072 module datasheet for the installed option.

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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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.