

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ASTRONICS / EADS / RACAL

Astronics / EADS / Racal 6066C Automotive Network Controller

Astronics Racal 6066C Automotive Network Controller VXI CAN Module The Astronics/EADS/Racal 6066C isaC-size message-based VXI automotive network controller for CAN bus simulation and analysis. OEM Racal 6066 manuals listaMotorola MC68340 based CAN application board, 1 MB data storage, programmable TTLTRIG, and DB9/DB15 user connectors. Automotive CAN network simulation, in-vehicle network ATE, and VXI-based CAN bus monitoring with message-based programming. Key FeaturesCsize VXI message based CAN controller The Astronics/EADS/Racal 6066C isaC-size message-based VXI automotive network controller for CAN bus simulation and analysis. OEM Racal 6066 manuals listaMotorola MC68340 based CAN application board, 1 MB data storage, programmable TTLTRIG, and DB9/DB15 user connectors. Automotive CAN network simulation, in-vehicle network ATE, and VXI-based CAN bus monitoring with message-based programming. Key FeaturesCsize VXI message based CAN controller Programmable VXI TTLTRIG and external sync



MODEL

**Astronics / EADS /
Racal 6066C**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6066C

LISTING

[https://aumictechlabs.c
om/products/6066c-2/](https://aumictechlabs.com/products/6066c-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Astronics/EADS/Racal 6066C is a C-sized VXI slave module that functions as both a network analyzer and simulator for automotive multiplexed bus testing. It supports CAN and VAN protocols with dual-channel capability, enabling simultaneous simulation and analysis of automotive networks within a single VXIbus slot. Each channel provides 1024 KB of exchange memory and can be independently configured for network analysis or simulation. The module includes optional error simulation on VAN networks for fault injection testing, making it suitable for validating ECU behavior under normal and fault conditions. Remote control via VXIbus allows integration into automated test systems.

Technical Specifications

Module Type: C-sized VXI slave module

Supported Networks: CAN (Controller Area Network), VAN (Vehicle Area Network)

Channel Configuration: One or two channels per module; each independently configurable as analyzer or simulator

Memory: 1024 KB exchange memory per channel

Weight: Approximately 2.5 kg

VXI Compliance: Release 1.4 standard

Key Features

- Dual-channel operation enables simultaneous CAN and VAN network analysis and simulation
- Simulator mode emulates network behavior to test connected automotive ECUs
- Trace mode captures and analyzes live network traffic for diagnostics
- Error simulation (VAN only) injects faults to validate system error handling
- External trigger inputs/outputs via dedicated connectors (TTLTRIG via VXIbus or external sources)

Typical Applications

- Testing automotive equipment with multiplexed bus architectures
- ECU validation during development and manufacturing
- Network traffic capture and post-analysis
- CAN and VAN system validation and fault tolerance assessment
- Automotive test controller integration

Compatibility & Integration

Operates within any VXIbus-compatible mainframe. Remote control via VXIbus enables seamless integration into larger automated test systems. Supplied with necessary connectors for CAN/VAN network and trigger connections.

6066C Characteristics / Specifications

PARAMETER	VALUE
Model	6066C
Instrument Type	automotive network controller CAN VXI module
Form Factor	C size VXI
Vxi Compliance	VXIbus specification 1.4
Device Class	slave message based instrument
Address Space	A16/A32 D16
Logic Addressing	dynamic or static 1 to 254
Interrupt Levels	programmable 0 to 7
Ttltrig Line	programmable
Data Storage	1 Mbyte
Microcontroller	Motorola MC68340
Can Channels On 6066C	1 CAN application board
Shared Sram Class	up to 1 Mb sharable with motherboard and VXI
Private Sram Class	up to 1 Mb
Eprom Class	up to 512 Kb
Trigger Sources	command one of 8 TTLTRIG lines or external
External Trigger Level	TTL
Trigger Transition Time	less than 100 ns into less than 50 pF
Self Test Coverage	90 percent at 25 C
Mtbf	50000 hours at 25 C and 40000 hours at 35 C
Cooling Required	4.0 l/s at 0.5 mm H2O
Operating Temperature	10 C to 50 C
Power Plus 5 V	4.75 to 5.25 Vdc about 2 A
User Connectors	DB9 and DB15 high density
Related Dual Board Model	6066CC with two application boards

6066C Specifications

PARAMETER	VALUE
Applications	Automotive CAN network simulation, in-vehicle network ATE, and VXI-based CAN bus monitoring with message-based programming.
C size VXI message based CAN controller	One CAN application board on 6066C
Programmable VXI TTLTRIG and external sync	DB9 and high density DB15 user connectors
Technical Specifications	Model: 6066C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	10 C to 50 C
Operating Temperature	10 C to 50 C
Power Plus 5 V	4.75 to 5.25 Vdc about 2 A
User Connectors	DB9 and DB15 high density
Related Dual Board Model	6066CC with two application boards Notes Numeric rows from Racal Instruments 6066 Automotive Network Controller manual specifications for the 6066C single CAN application board configuration.

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	6066C
Instrument Type	automotive network controller CAN VXI module
Form Factor	C size VXI
Vxi Compliance	VXIbus specification 1.4
Device Class	slave message based instrument
Address Space	A16/A32 D16
Logic Addressing	dynamic or static 1 to 254
Interrupt Levels	programmable 0 to 7
Ttltrig Line	programmable
Data Storage	1 Mbyte
Microcontroller	Motorola MC68340
Can Channels On 6066C	1 CAN application board
Shared Sram Class	up to 1 Mb sharable with motherboard and VXI
Private Sram Class	up to 1 Mb
Eprom Class	up to 512 Kb
Trigger Sources	command one of 8 TTLTRIG lines or external
External Trigger Level	TTL
Trigger Transition Time	less than 100 ns into less than 50 pF
Self Test Coverage	90 percent at 25 C
Mtbf	50000 hours at 25 C and 40000 hours at 35 C
Cooling Required	4.0 l/s at 0.5 mm H2O
Operating Temperature	10 C to 50 C
Power Plus 5 V	4.75 to 5.25 Vdc about 2 A
User Connectors	DB9 and DB15 high density
Related Dual Board Model	6066CC with two application boards

Notes

Numeric rows from Racal Instruments 6066 Automotive Network Controller manual specifications for the 6066C single CAN application board configuration.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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