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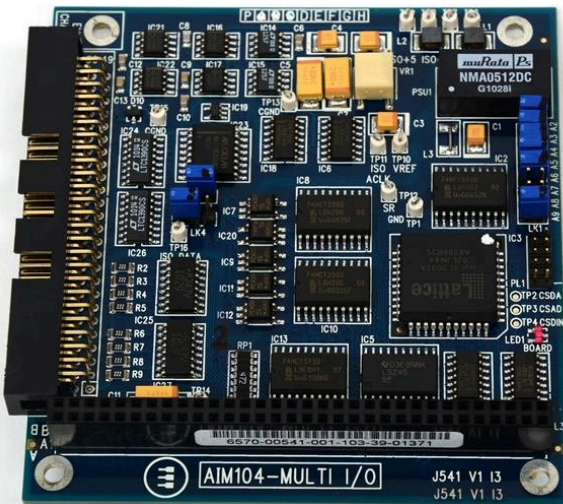
Data Sheet

August 15, 2026

EUROTECH

Eurotech AIM104-MULTI-IO-R6 8 Channel RS232 PC/104 Board

Eurotech Data Acquisition Systems (DAQ). Accuracy: ± 2 LSB (-5V to +5V), Accuracy: ± 2 LSB maximum (REF=5.0V).



MODEL

Eurotech AIM104-MULTI-IO-R6

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

AIM104-MULTI-IO-R6

LISTING

<https://aumictechlabs.com/products/aim104-multi-io-r6-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Eurotech AIM104-MULTI-IO-R6 is a PC/104 form factor board that combines eight opto-isolated RS232 serial channels with analog and digital I/O in a single module. Designed for embedded industrial systems, it delivers 1000V electrical isolation between the PC/104 host and external circuits, protecting against transient events and ground loops. The board operates from -20°C to +70°C and draws maximum 480mA at +5V DC, making it suitable for distributed control architectures and data acquisition in noise-prone environments. Technical Specifications Serial Communication 8× RS232 channels (16C550-compatible, asynchronous) Opto-isolated architecture Analog Inputs 16 single-ended or 8 differential channels (jumper-selectable) 12-bit resolution Input range: -5V to +5V (bipolar) Conversion time: 500 μ sec/channel Input impedance: 10M Ω // 10pF (typical) Relative accuracy: ± 2 LSB (-5V to +5V) Gain error: 0.5% (typical), $\pm 0.5\%$ (maximum, -20°C to +70°C) Analog Outputs 2 channels, 12-bit resolution Output modes: 0-25mA

(current loop) or -5V to +5V (voltage bipolar) Channel update time: 320 μ sec/channel Output impedance (voltage): <10 Ω (typical) Calibration accuracy: ± 2 LSB maximum (REF=5.0V) Integral non-linearity: ± 3.5 LSB (maximum) Gain error: 0.35% (typical, -20°C to +70°C) Digital Inputs 8 opto-isolated channels Switching voltage range: 10V to 30V Maximum input frequency: 50Hz 10ms fixed debounce filter Reverse input protection diodes included Electrical & Environmental Power: +5V DC $\pm 5\%$, maximum 480mA Operating temperature: -20°C to +70°C Isolation: 1000V (PC/104 to external), 30V (between adjacent channels) MTBF: 267,320 hours (MIL-HDBK-217F ground benign) Key Features PC/104 (IEEE996) form factor with 8-bit bus interface Independent opto-isolation on all serial and digital channels Flexible analog input configuration for single-ended or differential measurements Dual 12-bit DACs supporting both voltage and current loop output modes High input impedance for minimal signal loading Fixed 10ms debounce on digital inputs eliminates contact chatter Typical Applications Industrial process control and monitoring Distributed data acquisition in electrically noisy plants Legacy RS232 device integration in embedded Linux/Windows systems Multi-channel sensor interfacing with galvanic isolation Compatibility & Integration PC/104 stacking bus interface; 5V single-supply operation; standard connector-based external I/O.

AIM104MULTIOR6 Characteristics / Specifications

PARAMETER	VALUE
Model	AIM104-MULTI-IO-R6
Instrument Type	PC/104 octal RS-232 module
Family	Arcom / Eurotech AIM104
Channel Count	8 RS-232
Form Factor	PC/104
Revision	R6
Host Stack	Arcom SBC-GXm / Viper PC/104-Plus hosts
Uart Class	16C550-class PC serial (data sheet)
Power Class	PC/104 plus 5 V (data sheet current)
Manufacturer	Arcom Control Systems / Eurotech
Literature	Arcom AIM104-MULTI-IO PC/104 serial module listings
System Role	octal RS-232 expansion
Related Ethernet	AIM104-ETHER Ethernet sibling
Bus	PC/104 ISA-style stack
Connector Class	IDC/D-sub serial headers per AIM104 pinout
Address Class	jumper/switch I/O map on the AIM104 sheet
Interrupt Class	shared or unique IRQs per AIM104 sheet
Operating Temperature Class	embedded PC/104 industrial range on the sheet
Firmware Class	standard 16550 register set
Use Case	multi-drop instrument serial
Module Class	AIM104 I/O
Brand Lineage	Arcom / Eurotech
Documentation Type	AIM104-MULTI-IO-R6 listing
Ate Class	embedded serial I/O
Host Class	PC/104 CPU

PARAMETER	VALUE
Year Class	AIM104-MULTI-IO-R6
Operating temperature	Class: embedded PC/104 industrial range on the sheet

AIM104MULTIIOR6 Specifications

PARAMETER	VALUE
Applications	PC/104 serial expansion to eight RS-232 devices on Arcom/Eurotech embedded stacks.
Key Features	8 RS-232 channels on PC/104
AIM104 family I/O module	R6 hardware revision
Technical Specifications	Model: AIM104-MULTI-IO-R6

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: embedded PC/104 industrial range on the sheet
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Firmware Class	standard 16550 register set
Use Case	multi-drop instrument serial
Module Class	AIM104 I/O
Brand Lineage	Arcom / Eurotech
Documentation Type	AIM104-MULTI-IO-R6 listing
Ate Class	embedded serial I/O
Host Class	PC/104 CPU
Year Class	AIM104-MULTI-IO-R6 Notes From Arcom/Eurotech AIM104-MULTI-IO listings (8-channel RS-232 PC/104, R6). Baud, FIFO depth, and milliamps are on the AIM104-MULTI-IO data sheet; do not invent them.

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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Year Class	AIM104-MULTI-IO-R6

Notes

From Arcom/Eurotech AIM104-MULTI-IO listings (8-channel RS-232 PC/104, R6). Baud, FIFO depth, and milliamps are on the AIM104-MULTI-IO data sheet; do not invent them.

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.