

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

ACROMAG

Acromag IP236-8 16-Bit D/A Analog Output Module with FIFO Buffers

Acromag IP236-8 16 Bit Analog Output IndustryPack Module The Acromag IP236-8 is a single-size IndustryPack analog output module with eight 16-bit DACs and 128-sample FIFOs. OEM IP236A datasheet rates jumper-selectable plus or minus 5 V, plus or minus 10 V, or 0 to 10 V, 100 kHz throughput (10 us/conversion), 0.0061 percent of 20 V span calibrated accuracy at 25 C unloaded, and ANSI/VITA 4 IP compliance. Multi-channel analog stimulus, waveform playback from FIFO, and synchronized analog output on VME/PCI IP carriers. The Acromag IP236-8 is a single-size IndustryPack analog output module with eight 16-bit DACs and 128-sample FIFOs. OEM IP236A datasheet rates jumper-selectable plus or minus 5 V, plus or minus 10 V, or 0 to 10 V, 100 kHz throughput (10 us/conversion), 0.0061 percent of 20 V span calibrated accuracy at 25 C unloaded, and ANSI/VITA 4 IP compliance. Multi-channel analog stimulus, waveform playback from FIFO, and synchronized analog output on VME/PCI IP carriers. Independent DAC clock per channel to 100 kHz



MODEL

Acromag IP236-8

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IP236-8

LISTING

<https://aumictechlabs.com/products/ip236-8-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acromag IP236-8 is a 16-bit Digital-to-Analog output module delivering eight independent analog voltage channels for industrial control and automation systems. Each channel includes a 128-sample FIFO buffer with dedicated clock, enabling independent conversion rates, seamless waveform updates, and flexible triggering via software, external, or internal timer control. Output ranges are jumper-selectable at $\pm 5\text{V}$, $\pm 10\text{V}$, or 0 to 10V with maximum accuracy of $\pm 0.0061\%$ of 20V span (calibrated, 25°C, unloaded). The module achieves 100 kHz throughput across all eight channels and supports continuous, single, and external trigger modes for precise signal generation and synchronization across multiple modules.

Technical Specifications

Analog Output Performance 8 channels, 16-bit resolution Output ranges: $\pm 5\text{V}$, $\pm 10\text{V}$, 0 to 10V (jumper-selectable) Maximum throughput: 100 kHz total (10 μs per 8 channels), 100 kHz single channel System accuracy: $\pm 0.0061\%$ of 20V span maximum (calibrated, 25°C, unloaded) Output current: -5 mA to +5 mA Short circuit protection: Indefinite at 25°C Output at reset: 0V (bipolar), 5V (unipolar) 128-sample FIFO buffer per channel with independent DAC programming

Triggering & Control Trigger modes: Software, external, internal timer FIFO modes: Continuous (waveform cycling), Single (one value per trigger), External synchronization Interrupt capability supported External trigger output supported

Performance & Access All functions: 0 wait states (250 nS cycle) FIFO buffer write: 2 wait states (500 nS cycle) Interrupt read/write: 2 wait states (250 nS cycle)

Environmental & Power Operating temperature: 0°C to 70°C (standard); -40°C to 85°C (extended) Storage temperature: -55°C to 125°C Relative humidity: 5% to 95% non-condensing Power: +5V $\pm 5\%$ (250 mA max), $\pm 12\text{V}$ $\pm 5\%$ (210 mA max)

Key Features Independent per-channel FIFO buffers enable asynchronous, multi-rate output waveforms On-the-fly output updates without waveform interruption in continuous mode External trigger output for cross-module synchronization Direct register and FIFO loading for minimal latency

Typical Applications Waveform and function generation in automated test systems Real-time process control requiring precise, synchronized analog outputs Multi-channel signal simulation and hardware-in-the-loop testing

Compatibility & Integration Designed for Industry Pack (IP) carrier systems compliant with ANSI/VITA 4-1995. Supports IOSel, IDSel, and INTsel data transfer cycle types. Software support packages available from Acromag.

IP236 Characteristics / Specifications

PARAMETER	VALUE
Model	IP236-8
Instrument Type	Analog output IndustryPack module
Channel Count	8
Dac Resolution	16 bits
Output Ranges	plus or minus 5 V plus or minus 10 V 0 to 10 V jumper selectable
Fifo Depth	128 samples per channel
Throughput One Channel	100 kHz 10 us per conversion
Throughput Eight Channels	100 kHz 10 us per 8 channels
System Accuracy	0.0061 percent of 20 V span maximum corrected at 25 C unloaded
Output At Reset Bipolar	0 V
Output At Reset Unipolar	5 V
Output Current	minus 5 to plus 5 mA maximum
Short Circuit Protection	indefinite at 25 C
Ip Standard	ANSI/VITA 4-1995
Access Time Most Functions	0 wait states 250 ns cycle at 8 MHz
Fifo Write Access	2 wait states 500 ns cycle
Operating Temperature Standard	0 to 70 C
Operating TemperatureESuffix	minus 40 to 85 C
Mechanical Package	single size IndustryPack
Update Modes	simultaneous or individual
Programming	independent input registers and FIFOs
Carrier Density Example	four IPs give 32 DAC channels in one slot
Operating temperature	Standard: 0 to 70 C

IP236 Specifications

PARAMETER	VALUE
Key Features	Independent DAC clock per channel to 100 kHz
Interrupt on FIFO almost empty	Extended-temperature IP236-8E minus 40 to 85 C
Technical Specifications	Model: IP236-8

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Standard: 0 to 70 C
Operating Temperature	Standard: 0 to 70 C
Operating Temperature Standard	0 to 70 C
Operating TemperatureESuffix	minus 40 to 85 C
Mechanical Package	single size IndustryPack
Update Modes	simultaneous or individual
Programming	independent input registers and FIFOs
Carrier Density Example	four IPs give 32 DAC channels in one slot Notes From Acromag IP236A Industry Pack 16-bit D/A Analog Output with FIFO Buffers datasheet. Confirm standard versusEtemperature suffix and range jumpers J1 to J8.

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	IP236-8
Instrument Type	Analog output IndustryPack module
Channel Count	8
Dac Resolution	16 bits
Output Ranges	plus or minus 5 V plus or minus 10 V 0 to 10 V jumper selectable
Fifo Depth	128 samples per channel
Throughput One Channel	100 kHz 10 us per conversion
Throughput Eight Channels	100 kHz 10 us per 8 channels
System Accuracy	0.0061 percent of 20 V span maximum corrected at 25 C unloaded
Output At Reset Bipolar	0 V
Output At Reset Unipolar	5 V
Output Current	minus 5 to plus 5 mA maximum
Short Circuit Protection	indefinite at 25 C
Ip Standard	ANSI/VITA 4-1995
Access Time Most Functions	0 wait states 250 ns cycle at 8 MHz
Fifo Write Access	2 wait states 500 ns cycle
Operating Temperature Standard	0 to 70 C
Operating TemperatureESuffix	minus 40 to 85 C
Mechanical Package	single size IndustryPack
Update Modes	simultaneous or individual
Programming	independent input registers and FIFOs
Carrier Density Example	four IPs give 32 DAC channels in one slot
Notes	
From Acromag IP236A Industry Pack 16-bit D/A Analog Output with FIFO Buffers datasheet. Confirm standard versusEtemperature suffix and range jumpers J1 to J8.	

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.