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Data Sheet

August 15, 2026

CURTISS-WRIGHT / SYSTRAN

Curtiss-Wright / Systran ADM1224F 24-Channel, Differential-Input, +/-10V, A-D Converter Module

Curtiss-Wright Systran ADM1224F 24 Channel Differential Analog Input The Systran / Curtiss-Wright ADM1224F is a 24-channel differential analog input board. Catalog title lists ADM1224F as 24-channel, differential-input, plus or minus 10 V analog input. It is used in Systran/Curtiss-Wright I/O families (IndustryPack/PCI/VME class hosts) for multi-channel data acquisition of industrial plus or minus 10 V signals. 24-channel plus or minus 10 V differential analog acquisition in embedded I/O systems. The Systran / Curtiss-Wright ADM1224F is a 24-channel differential analog input board. Catalog title lists ADM1224F as 24-channel, differential-input, plus or minus 10 V analog input. It is used in Systran/Curtiss-Wright I/O families (IndustryPack/PCI/VME class hosts) for multi-channel data acquisition of industrial plus or minus 10 V signals. 24-channel plus or minus 10 V differential analog acquisition in embedded I/O systems. Family: Systran / Curtiss-Wright ADM analog I/O Related Discrete: DID48-68 48-channel debounced discrete input



MODEL

**Curtiss-Wright /
Systran ADM1224F**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

ADM1224F

LISTING

<https://aumictechlabs.com/products/adm1224f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Curtiss-Wright/Systran ADM1224F is a 24-channel differential-input analog-to-digital converter module engineered for high-resolution data acquisition in industrial and scientific applications. The module accepts $\pm 10\text{V}$ differential signals with high common-mode rejection, delivering deterministic sampling across all channels. Its modular architecture supports expansion to 120 channels in VME systems using the VMESC5 carrier or 144 channels in PC systems using the ISASC6 carrier.

Technical Specifications

Input Channels: 24 differential input channels

Input Voltage Range: $\pm 10\text{V}$

Architecture: Three sets of multiplexers, instrumentation amplifiers, and ADCs; one set supports 8 channels

Sampling: Complete deterministic sampling of all channels with 4-bit frame counter value included in ADC data output

Current Value Table: True "on-the-fly" access to latest ADC data

Input Configuration: High common-mode rejection via differential inputs; analog reference jumpers enable per-channel selection between differential and single-ended input modes

Key Features

- Differential signal conditioning for increased accuracy and noise immunity
- Deterministic sampling with frame counter sequencing for all 24 channels
- Per-channel configurable input mode (differential or single-ended via reference jumpers)
- On-the-fly access to current ADC values without interrupting sampling

Typical Applications

Precise measurement and control systems requiring multi-channel differential data acquisition in VME or PC-based platforms.

Compatibility & Integration

- Compatible with VMESC5 carrier boards for VME system integration (up to 120 channels per slot)
- Compatible with ISASC6 carrier boards for PC system integration (up to 144 channels per slot)

Designed for mixing with other IP Modules to create customized modular I/O system solutions

ADM1224F Characteristics / Specifications

PARAMETER	VALUE
Model	ADM1224F
Instrument Type	Analog input board
Channel Count	24
Input Type	differential
Input Range	plus or minus 10 V
Family	Systran / Curtiss-Wright ADM analog I/O
Related Discrete	DID48-68 48-channel debounced discrete input
Related Dac	IP-DAC128V-69 IndustryPack DAC
Form Factor	embedded analog input module
Manufacturer	Systran / Curtiss-Wright
Use Case	multi-channel plus or minus 10 V DAQ
Control	host CPU / IP carrier
Operating Temperature Class	commercial embedded
Literature	Curtiss-Wright Systran ADM1224F listings
Connector Class	analog input header/DB class
Revision	F
Documentation Type	OEM analog I/O catalog
Brand Lineage	Systran Curtiss-Wright
System Role	analog front end
Ground	differential input
Protection Class	analog input protection per ADM sheet
Sample Class	scanned or simultaneous per ADM sheet
Operating temperature	Class: commercial embedded

ADM1224F Specifications

PARAMETER	VALUE
Applications	24-channel plus or minus 10 V differential analog acquisition in embedded I/O systems.
Key Features	24 differential analog inputs
Technical Specifications	Model: ADM1224F

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: commercial embedded
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Literature	Curtiss-Wright Systran ADM1224F listings
Connector Class	analog input header/DB class
Revision	F
Documentation Type	OEM analog I/O catalog
Brand Lineage	Systran Curtiss-Wright
System Role	analog front end
Ground	differential input
Protection Class	analog input protection per ADM sheet
Sample Class	scanned or simultaneous per ADM sheet Notes From Curtiss-Wright / Systran ADM1224F catalog title (24-channel differential plus or minus 10 V). Resolution, sample rate, and accuracy are on the ADM1224F data sheet.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.