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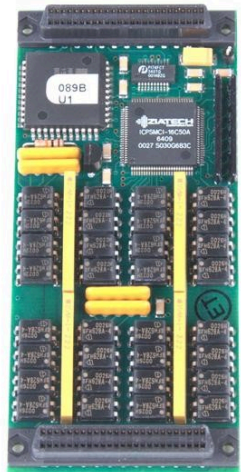
Data Sheet

August 15, 2026

ACROMAG

Acromag IP440-1 Isolated Digital Input Module

Acromag IP440-1 Isolated Digital Input IndustryPack Module The Acromag IP440/IP440A-1 provides 32 optically isolated digital inputs on an IndustryPack mezzanine. OEM IP440A datasheet lists plus or minus 4 to plus or minus 18 V bipolar input range for the -1 model, port isolation, programmable debounce, and 0 wait state IP accesses. Isolated monitoring of low-voltage digital field signals on VME/cPCI carriers, change-of-state interrupts, and loopback testing with IP445 outputs. Instrument Type: isolated digital input IndustryPack The Acromag IP440/IP440A-1 provides 32 optically isolated digital inputs on an IndustryPack mezzanine. OEM IP440A datasheet lists plus or minus 4 to plus or minus 18 V bipolar input range for the -1 model, port isolation, programmable debounce, and 0 wait state IP accesses. Isolated monitoring of low-voltage digital field signals on VME/cPCI carriers, change-of-state interrupts, and loopback testing with IP445 outputs. Instrument Type: isolated digital input IndustryPack Bipolar Input Range: plus or minus 4 to plus or minus 18 V DC or AC peak



MODEL

Acromag IP440-1

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IP440-1

LISTING

<https://aumictechlabs.com/products/ip440-1-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acromag IP440-1 is a 16-channel isolated digital input module engineered for industrial automation and control systems. It acquires digital signals across 0–30 VDC with 500 VDC channel-to-channel and channel-to-ground isolation, delivering 10 ms typical response time and

configurable digital filtering. Individual LED status indicators and reverse voltage protection provide real-time feedback and circuit safeguarding in harsh environments.

Technical Specifications

Channels: 16 isolated digital inputs
Input Voltage Range: 0–30 VDC
Isolation Voltage: 500 VDC (channel-to-channel and channel-to-ground)
Input Current Draw: 5 mA maximum per input at 30 VDC
Response Time: 10 ms typical (on-to-off and off-to-on transitions)
Input Signal Thresholds: ON state >15 VDC; OFF state <5 VDC
Power Consumption: <2 W internal; external 24 VDC supply required for signal conditioning
Temperature Range: –40°C to +85°C operating; –40°C to +85°C storage
Humidity: 0% to 95% non-condensing

Key Features

Configurable software-selectable digital filtering
LED status indicators for each input channel
Integrated reverse voltage protection on input circuitry
Removable screw terminal blocks (14–22 AWG wire rated)
DIN rail mountable (35 mm standard)
Rugged industrial enclosure for demanding environments

Typical Applications

Digital signal acquisition in industrial automation, PLC interfacing, process control systems, and machinery monitoring requiring isolated inputs with noise immunity and electrical isolation.

Compatibility & Integration

Designed to interface with Acromag's data acquisition and control systems, industrial controllers, and PLCs accepting 0–30 VDC digital inputs. Compatible with Acromag's 400-series configuration software for parameter setup and filtering configuration.

IP440 Characteristics / Specifications

PARAMETER	VALUE
Model	IP440-1
Instrument Type	isolated digital input IndustryPack
Channel Count	32
Port Groups	4 ports of 8 channels
Bipolar Input Range	plus or minus 4 to plus or minus 18 V DC or AC peak
Input Low To High Threshold Typical	plus or minus 2 V
Input Response On To Off Typical	15 us
Input Response Off To On Typical	10 us
Isolation Continuous	250 V AC rms or 250 V DC
Dielectric Strength Test	1500 V AC for one minute
Debounce Selections	4 us 64 us 1 ms 8 ms
Interrupt Modes	high to low low to high change of state
IP Compliance	ANSI/VITA 4-1995
Access Time At 8 MHz	0 wait states 250 ns cycle
Update Reads	four 8-bit reads for all channels
Plus 5 V Current Typical	65 mA
Plus 5 V Current Maximum	150 mA
Plus Or Minus 12 V Current	0 mA not used
Operating Temperature Standard	0 C to 70 C
Operating Temperature Extended E	minus 40 C to 85 C
Form Factor	single width IndustryPack
Series Family	Acromag IP440A
Related Models	IP440-2 IP440-3
Operating temperature	Standard: 0 C to 70 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Standard: 0 C to 70 C
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Operating Temperature Standard	0 C to 70 C
Operating Temperature Extended E	minus 40 C to 85 C
Form Factor	single width IndustryPack
Series Family	Acromag IP440A
Related Models	IP440-2 IP440-3 Notes Numeric rows from Acromag IP440A Industry Pack Isolated Digital Input Board datasheet for IP440A-1 range. Queue model IP440-1 maps to this range variant.

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.