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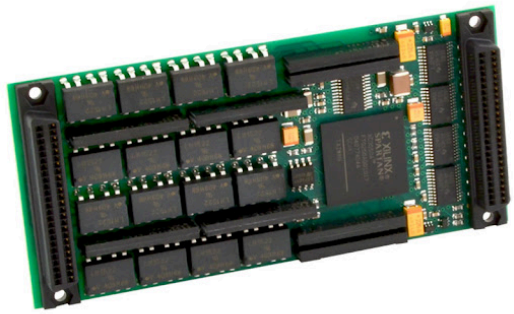
Data Sheet
August 15, 2026

ACROMAG

Acromag IP445 Isolated Digital Output Module

Acromag IP445A Isolated Digital Output Industry Pack Module 32 Channels The Acromag IP445A (queue listing IP445) provides 32 isolated solid-state relay outputs for bipolar AC/DC switching to plus or minus 60 V. OEM IP445A datasheet rates 140 mA continuous per output (1 A total per port), 1 ms typical switching, and readback buffers. Driving discrete actuators and relays in industrial control while isolating the host, often paired with IP440A for loopback monitoring. High-side or low-side switch configuration per port The Acromag IP445A (queue listing IP445) provides 32 isolated solid-state relay outputs for bipolar AC/DC switching to plus or minus 60 V. OEM IP445A datasheet rates 140 mA continuous per output (1 A total per port), 1 ms typical switching, and readback buffers. Driving discrete actuators and relays in industrial control while isolating the host, often paired with IP440A for loopback monitoring. High-side or low-side switch configuration per port Socketed 4.7 kOhm pull-ups for TTL low-side use



MODEL Acromag IP445	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU IP445	LISTING https://aumictechlabs.com/products/ip445-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Acromag IP445 is an isolated digital output module designed for industrial applications, offering 32 solid-state relay (SSR) outputs. This module is engineered to provide solid and reliable digital output control while ensuring the protection of sensitive control systems from electrical noise and surges through its isolation capabilities. It is particularly well-suited for integration with Programmable Logic Controllers (PLCs) and Distributed Control Systems (DCS). The IP445

module supports a wide range of bipolar (AC or DC) voltage switching, providing flexibility in its application. Each output port can be configured for either high-side or low-side switching, with TTL compatibility when configured for low-side switching via on-board socketed pull-up resistors. The outputs are grouped into four 8-channel ports, with each port isolated from the logic and from other ports via solid-state relays. Readback buffers are integrated to simplify the monitoring of output status. For comprehensive closed-loop monitoring of critical control signals, the IP445 can be used in conjunction with an Acromag IP440 input module. Technical Specifications Digital Outputs: Number of Channels: 32 Output Type: Isolated Solid-State Relays (SSR) Switching Capability: Bipolar (AC or DC) Configuration: High-side or low-side switching per port Voltage Range: 0 to ±60V DC or peak AC Output ON Current: 140mA maximum continuous per channel * 1A maximum total per port Turn On Time: 1ms typical, 2ms maximum Turn Off Time: 1ms typical, 2ms maximum Pull-up Resistors: 4.7K ohms, socketed (for low-side switching) Current Limiting: Built-in current limiting for SSR protection (Note: External current limiting may be necessary if exceeding per-port limits, refer to specifications for details) SSR Characteristics: Clean, bounce-free switching, comparable to electromechanical relays in speed. Isolation: Type: Optically isolated by solid-state relays Channel Isolation: Logic and field connections are isolated. Individual ports are isolated from each other. Isolation Voltage: Up to 250V AC or DC continuous between logic and field lines Dielectric Strength Test: Withstands 1000V AC for one minute without breakdown. Port-to-Port Isolation: Allows for 100V of port-to-port isolation. Performance: Processing Speed: High speed processing with 0 wait states Data Transfer: IP data transfer cycle types supported include Input/Output (IOSel*) and ID read (IDSel*). Access Time: 250ns cycle (8MHz clock). Update Requirement: Four 8-bit writes to update all 32 channels. Compatibility: Interface: Industry Pack (IP) module. Carrier Support: VMEbus and ISA bus (PC/AT) carriers supported. Companion Module: Pin-compatible with Acromag IP440 (input module) for loopback monitoring. Software Support: VxWorks, QNX, Windows DLL driver, Linux (website download). Environmental and Physical: Operating Temperature: * IP445: 0°C to 70°C * IP445E model: -40°C to 85°C Storage Temperature: -40°C to 125°C (all models) (Note: IP445A has an improved storage range of -40°C to 150°C) Relative Humidity: 5% to 95% non-condensing MTBF: 713,455 hours at 25°C (per MIL-HDBK-217F, Notice 2) Form Factor: Industry Pack (IP) module. The AcroPack series (AP445) is based on the PCI Express Mini Card Electromechanical specification, measuring 70mm in length with a 30mm width. Power Requirements: +5V Supply: ±5%, 400mA maximum (all outputs ON) ±12V Supply: 0mA (not used) Output Operation: Failsafe: Outputs are OFF upon power-up reset and system reset. Output Readback: Functionality to read back output status registers is available. Why Choose Aumictech for Acromag IP445? At Aumictech, we specialize in supplying high-end industrial I/O equipment. Whether you need reliable digital output control, solid isolation for sensitive systems, or seamless integration with your existing PLC and DCS infrastructure, our team ensures the Acromag IP445 delivers maximum performance for your application.

IP445 Characteristics / Specifications

PARAMETER	VALUE
Model	IP445A
Alternate Queue Model	IP445
Instrument Type	Isolated solid-state digital output Industry Pack module
Output Channels	32 isolated solid-state relays
Voltage Range	0 to plus or minus 60 V DC or peak AC
Output On Current Continuous	140 mA maximum per channel
Port Current Total	up to 1 A per port
Turn On Time Typical	1 ms
Turn On Time Maximum	2 ms
Turn Off Time Typical	1 ms
Turn Off Time Maximum	2 ms
Continuous Isolation Logic To Field	250 V AC or 354 V DC
Dielectric Strength Test	1000 V AC for one minute
Output Pull Up Resistors	4.7 kOhm socketed
Access Time At 8 Mhz	0 wait states 250 ns cycle
Channel Update Writes	four 8-bit writes for all channels
Operating Temperature Standard	0 to 70 C
Operating TemperatureEModel	-40 to 85 C
Storage Temperature	-40 to 150 C
Relative Humidity	5 to 95 percent non-condensing
Mtbf	713455 hours at 25 C MIL-HDBK-217F notice 2
Power Plus 5 V All Outputs On	200 mA maximum
Power Plus 5 V All Outputs Off	8 mA maximum
Ip Standard	ANSI/VITA 4-1995
Operating temperature	Standard: 0 to 70 C

PARAMETER	VALUE
Humidity	5 to 95 percent non-condensing

IP445 Specifications

PARAMETER	VALUE
Applications	Driving discrete actuators and relays in industrial control while isolating the host, often paired with IP440A for loopback monitoring.
Key Features	32 bipolar solid-state relay outputs
Technical Specifications	Model: IP445A
Notes	From Acromag IP445A Isolated Digital Output datasheet. Queue model IP445 corresponds to the IP445A electrical identity.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	40 to 150 C
Operating temperature	Standard: 0 to 70 C
Operating Temperature	Standard: 0 to 70 C
Humidity	5 to 95 percent non-condensing
Operating Temperature Standard	0 to 70 C
Operating TemperatureEModel	-40 to 85 C
Relative Humidity	5 to 95 percent non-condensing
Mtbf	713455 hours at 25 C MIL-HDBK-217F notice 2
Power Plus 5 V All Outputs On	200 mA maximum
Power Plus 5 V All Outputs Off	8 mA maximum
Ip Standard	ANSI/VITA 4-1995 Notes From Acromag IP445A Isolated Digital Output datasheet. Queue model IP445 corresponds to the IP445A electrical identity.

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	IP445A
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Notes

From Acromag IP445A Isolated Digital Output datasheet. Queue model IP445 corresponds to the IP445A electrical identity.

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

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