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Data Sheet

August 15, 2026

ACROMAG

Acromag IP480-6 Counter / Timer IndustryPack Module

Acromag IP480-6 Six-Channel Counter Timer Industry Pack Module The Acromag IP480-6 provides six 16-bit counter/timer channels (combinable to three 32-bit) for event counting, waveform generation, pulse-width/period measurement, and watchdog timing. OEM IP480 datasheet rates internal clocks of 1/4/8 MHz, external clocks to 7 MHz, and FormC watchdog relays rated 125 Vac 1 A. Industrial timing, PWM generation, rate measurement, and watchdog supervision on IP carriers. Watchdog timer with isolated SPDT relay per counter The Acromag IP480-6 provides six 16-bit counter/timer channels (combinable to three 32-bit) for event counting, waveform generation, pulse-width/period measurement, and watchdog timing. OEM IP480 datasheet rates internal clocks of 1/4/8 MHz, external clocks to 7 MHz, and FormC watchdog relays rated 125 Vac 1 A. Industrial timing, PWM generation, rate measurement, and watchdog supervision on IP carriers. Watchdog timer with isolated SPDT relay per counter Internal or external clocking and triggering



MODEL

Acromag IP480-6

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IP480-6

LISTING

<https://aumictechlabs.com/products/ip480-6-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Acromag IP480-6 is a six-channel counter/timer IndustryPack module delivering precise event counting, waveform generation, and frequency measurement for industrial automation and real-time control systems. This module combines flexibility with high-speed performance, supporting internal or external triggering and clock sources to synchronize operations across demanding measurement and control applications. Note: not recommended for new designs.

Technical Specifications

Counter/Timer Architecture Six 16-bit channels, combinable to three 32-bit counter/timers 8 MHz internal clock; maximum output frequency 4 MHz Minimum event pulse width: 130 ns Minimum pulse width measurement: 250 ns Minimum period measurement: 250 ns

Operating Modes Event counting Continuous pulse, single pulse, and continuous square waveform generation Pulse-width and periodic rate monitoring Watchdog timer with isolated SPDT relay output per counter Timing Accuracy (external clocking) Waveform generation period: ± 62 ns Watchdog timeout: ± 1 clock cycle Pulse/period measurement: ± 1 clock cycle

Input/Output Characteristics Input voltage: 0 to 5 V DC Input thresholds: 2.0 V minimum high, 0.8 V maximum low Input current: 10 μ A maximum Output: N-channel MOSFET open drains with socketed 4.7 k Ω pull-up resistors Output protection: 60 V DC; sink current up to 250 mA per channel Output range: 0 to 5 V (internal supply) or 0 to 60 V (external pull-ups) Relay contacts: 125 V AC, 1 A (SPDT) Power & Environmental +5 V ($\pm 5\%$): 255 mA maximum ± 12 V from P1: 0 mA (not used) Operating temperature: 0 to 70 $^{\circ}$ C (standard) or -40 to 85 $^{\circ}$ C (extended) Storage temperature: -55 to 125 $^{\circ}$ C Humidity: 5 to 95 % non-condensing Dimensions: 4 $\times$ 2 $\times$ 1 inches; weight: 8 oz

Key Features Five interrupt sources: watchdog timeout, event count complete, measurement complete, pulse wave complete, successive waveform generation Flexible triggering: internal or external synchronization Dual clock operation: internal or external clock supply High-current open-drain outputs for relay and solenoid driving ANSI/VITA 4-1995 IndustryPack compliance

Typical Applications Industrial automation controllers, precision timing systems, event logging, pulse train analysis, motor control interfaces, and real-time data acquisition platforms requiring deterministic counter/timer performance.

Compatibility & Integration Meets ANSI/VITA 4-1995 IndustryPack specifications. 4 $\times$ 2 inch form factor integrates into standard carrier boards and embedded systems.

IP480 Characteristics / Specifications

PARAMETER	VALUE
Model	IP480-6
Instrument Type	Counter/timer Industry Pack module
Counter Channels	six 16-bit (three 32-bit when paired)
Max Output Pulse Square Wave Frequency	4 MHz with 8 MHz internal clock
Minimum Event Pulse Width	130 ns
Minimum Pulse Width Measurement	250 ns
Minimum Period Measurement	250 ns
Waveform Generation Period Accuracy	plus or minus 62 ns with external clocking
Internal Clock Rates	programmable 1 4 or 8 MHz
External Clock Maximum	7 MHz per counter
Trigger Input Levels	Vih 2.0 V Vil 0.8 V TTL/CMOS
Input Voltage Range	0 to 5 V
Input Current Maximum	10 uA
Output Sink Current	up to 250 mA each open-drain MOSFET
Output Drain Protection	to 60 V DC
Output Range Internal Pull Up	0 to 5 V
Output Range External Pull Up	0 to 60 V
Watchdog Relay Contacts	SPDT FormCrated 125 V AC 1 A
Pull Up Sip	4.7 kOhm socketed power limited 0.15 W per resistor
Access Read Write Typical	0 wait states 250 ns at 8 MHz
Counter Readback Access	1 wait state 375 ns
Operating Temperature Standard	0 to 70 C
Operating TemperatureEModel	-40 to 85 C
Storage Temperature	-55 to 125 C
Relative Humidity	5 to 95 percent non-condensing

PARAMETER	VALUE
Power Plus 5 V	255 mA maximum for -6 model
Ip Standard	ANSI/VITA 4-1995
Operating temperature	Standard: 0 to 70 C
Humidity	5 to 95 percent non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	55 to 125 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
Power Plus 5 V	255 mA maximum for -6 model
Ip Standard	ANSI/VITA 4-1995 Notes From Acromag IP480 Counter/Timer Industry Pack datasheet for IP480-6 ordering model.

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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Internal Clock Rates	programmable 1 4 or 8 MHz
External Clock Maximum	7 MHz per counter
Trigger Input Levels	Vih 2.0 V Vil 0.8 V TTL/CMOS
Input Voltage Range	0 to 5 V
Input Current Maximum	10 uA
Output Sink Current	up to 250 mA each open-drain MOSFET
Output Drain Protection	to 60 V DC
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Ip Standard	ANSI/VITA 4-1995
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Notes

From Acromag IP480 Counter/Timer Industry Pack datasheet for IP480-6 ordering model.

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.