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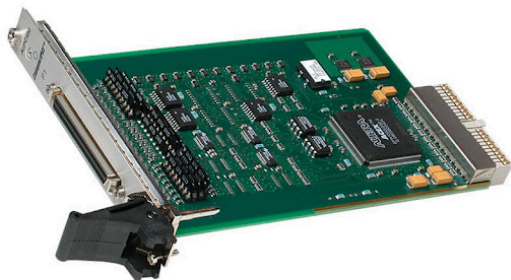
Data Sheet

August 15, 2026

ACROMAG / XEMBEDDED / XYCOM

Acromag / Xembedded / Xycom AcPC482 Counter / Timer Module with Quadrature

Acromag AcPC482 CompactPCI Counter Timer with Quadrature The AcPC482 isaCompactPCI counter/timer with ten 16-bit TTL channels and quadrature support. OEM AcPC48x datasheet lists a 20 MHz time base programmable to 1.25, 2.5, 5, 10, or 20 MHz, external clocks to 8 MHz, 100 ns minimum event/pulse-width, 200 ns minimum period, 16 bidirectional TTL DIO, PCI 2.2 and PICMG 2.0 R3.0 slave 8/16/32-bit, 320 mA typical at plus 5 V, MTBF 1,744,259 hours at 25 C, and 0 to 70 C or minus 40 to 85 C (E). Event counting, frequency and pulse-width measurement, PWM/watchdog generation, and quadrature position on CompactPCI. The AcPC482 isaCompactPCI counter/timer with ten 16-bit TTL channels and quadrature support. OEM AcPC48x datasheet lists a 20 MHz time base programmable to 1.25, 2.5, 5, 10, or 20 MHz, external clocks to 8 MHz, 100 ns minimum event/pulse-width, 200 ns minimum period, 16 bidirectional TTL DIO, PCI 2.2 and PICMG 2.0 R3.0 slave 8/16/32-bit, 320 mA typical at plus 5 V, MTBF 1,744,259 hours at 25 C, and 0 to 70 C or minus 40 to 85 C (E). Event counting, frequency and pulse-width measurement, PWM/watchdog generation, and quadrature position on CompactPCI.



MODEL

**Acromag /
Xembedded /
Xycom AcPC482**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AcPC482

LISTING

<https://aumictechlabs.com/products/acpc482-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acromag AcPC482 is a CompactPCI counter/timer module delivering ten 16-bit multifunction counters with quadrature input capability for precision position measurement and timing control. Engineered for industrial automation, motion control, and data acquisition systems, the module combines event counting, frequency measurement, pulse width modulation, and watchdog timer functionality in a single compact form factor. The 20 MHz internal clock time base ensures nanosecond-level timing accuracy across all measurement and generation modes.

Technical Specifications

Counter/Timer Architecture Ten 16-bit multifunction counter/timers Two 16-bit counters combinable into one 32-bit counter Quadrature position measurement with external clock support up to 8 MHz Internal programmable clocks: 1.25, 2.5, 5, 10, or 20 MHz Maximum output pulse/square wave frequency: 200 nS (20 MHz clock) Minimum event pulse width: 100 nS Minimum pulse width measurement: 100 nS Minimum period measurement: 200 nS

Counter/Timer Modes Pulse width modulation (PWM), watchdog timer, event counting, frequency measurement, pulse width measurement, period measurement, one-shot pulse output, repetitive pulse output, time/period interrupt, and square wave/pulse train generation. Digital I/O 16 bi-directional digital I/O channels (12 channels on PMC482R/PMC482RE models) Programmable per-channel input or output configuration Interrupt-on-change capability: state change, low-level, or high-level transitions TTL I/O on 482 models; mixed TTL/RS422 on 483 models; RS422 only on 484 models TTL specifications: $V_{IH} = 2.0\text{ V}$, $V_{IL} = 0.8\text{ V}$ Buffered inputs with 4.7 k Ω pull-ups to +5 V

Accuracy & Timing Waveform generation period: $\pm 125\text{ nS}$ ($\pm 62\text{ nS}$ for IP482 at 32 MHz carrier) Watchdog timeout: ± 1 clock cycle Pulse/period measurement: ± 1 clock cycle

Key Features PCI Local Bus Specification Revision 2.2 compliance 5 V and 3.3 V signaling support Front panel SCSI-3 connector for field I/O 64-pin rear I/O connector (PMC482R/PMC482RE) 32, 16, or 8-bit register access through PCI memory space Operating temperature: 0 to 70°C (extended -40 to 85°C available on 'E' models)

Typical Applications Industrial automation, motion control systems, encoder interface, event logging, precision timing, pulse generation, and frequency measurement in embedded control environments.

ACPC482 Characteristics / Specifications

PARAMETER	VALUE
Model	AcPC482
Instrument Type	CompactPCI counter/timer with quadrature
Counter Channels	ten 16-bit TTL (two 16-bit may cascade to 32-bit)
Time Base	20 MHz
Internal Clocks	programmable 1.25 2.5 5 10 or 20 MHz
External Clock Max	8 MHz per counter
Minimum Event Pulse	100 ns
Minimum Pulse Width Measure	100 ns
Minimum Period Measure	200 ns
Watchdog Accuracy	timeout within plus or minus 1 clock cycle
Waveform Period Accuracy	plus or minus 125 ns with external clocking
Trigger Gate Pulse	100 ns minimum
Ttl Vih Vil	VIH 2.0 V VIL 0.8 V with 4.7 kOhm pull-ups to plus 5 V
Digital Io	16 bidirectional TTL transceivers independent direction
Bus Compliance	PCI specification 2.2 and PICMG 2.0 R3.0
Data Width	slave 32-bit 16-bit and 8-bit
Power	320 mA typical at plus 5 V
Mtbf	1744259 hours at 25 C MIL-HDBK-217F notice 2
Operating Temperature Standard	0 to 70 C
Operating Temperature E	minus 40 to 85 C
Storage Temperature	minus 55 to 125 C
Humidity	5 to 95 percent non-condensing
Functions	event count, frequency, quadrature, PWM, period/pulse, one-shot, watchdog
Manufacturer	Acromag / Xembedded / Xycom
Related Pci	APC482 is the PCI-bus sibling

PARAMETER	VALUE
Operating temperature	Standard: 0 to 70 C

ACPC482 Specifications

PARAMETER	VALUE
Acromag AcPC482 CompactPCI Counter Timer with Quadrature	Overview
Key Features	Ten 16-bit TTL counters (cascade to 32-bit)
Quadrature position measurement	20 MHz programmable time base
Technical Specifications	Model: AcPC482
Notes	From Acromag AcPC48x CompactPCI Counter/Timer with Quadrature datasheet (AcPC482 TTL ten-channel row). Confirm E temperature suffix.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 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 Temperature E	minus 40 to 85 C
Functions	event count, frequency, quadrature, PWM, period/pulse, one-shot, watchdog
Manufacturer	Acromag / Xembedded / Xycom
Related Pci	APC482 is the PCI-bus sibling Notes From Acromag AcPC48x CompactPCI Counter/Timer with Quadrature datasheet (AcPC482 TTL ten-channel row). ConfirmEtemperature suffix.

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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Watchdog Accuracy	timeout within plus or minus 1 clock cycle
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Notes

From Acromag AcPC48x CompactPCI Counter/Timer with Quadrature datasheet (AcPC482 TTL ten-channel row).
Confirm Etemperature suffix.

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.