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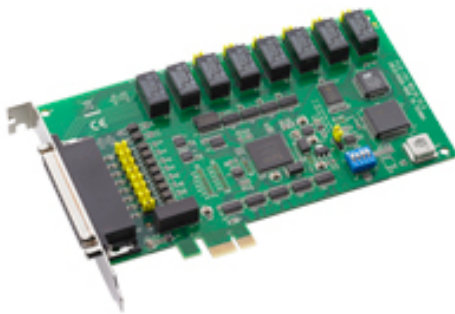
Data Sheet

August 15, 2026

ADVANTECH

Advantech PCI-1760 Relay Actuator and Isolated Digital Input Card

Advantech Digital Input Board. Channels: 2 Form C + 6 Form A relays, Voltage: 0–3 V (Logic 0) or 4.5–12 V (Logic 1).



MODEL

Advantech PCI-1760

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCI-1760

LISTING

<https://aumictechlabs.com/products/pci-1760-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech PCI-1760 is a PCI/PCIe relay actuator and isolated digital input card for industrial automation and real-time control. It combines 8 relay outputs with 8 galvanically isolated digital inputs, delivering 2,500 VDC isolation protection in hostile electrical environments. The card supports both dry-contact and wet-contact signaling, programmable digital filtering, and dual interrupt modes (pattern match and change-of-state detection). Two independent 16-bit event counters monitor digital inputs up to 500 Hz or 1 kHz, while 2 isolated PWM channels provide proportional control capability. All relay channels feature individual LED status indicators and operate within 5 ms switching time, supporting loads from 0.5 A @ 125 VAC through 1 A @ 30 VDC. Technical Specifications Relay Outputs 8 channels: 2 Form C + 6 Form A relays Contact ratings: 1 A @ 30 VDC, 0.5 A @ 125 VAC, 120 VDC @ 0.5 A Operating time: 5 ms maximum Contact resistance: < 100 mΩ Life span: 200,000 ops @ 0.5 A 120 VAC; 500,000 ops @ 1 A 30 VDC Digital

Inputs 8 isolated channels with 2,500 VDC isolation Dry-contact or wet-contact via jumper configuration Input voltage: 0–3 V (Logic 0) or 4.5–12 V (Logic 1); alternate range 0 V (Logic 0) or 10–30 VDC (Logic 1) Opto-isolator response: 25 μ s or 60 μ s Programmable digital filter for noise rejection Pattern match and change-of-state interrupts Counter input: 2 channels, 16-bit up event, 32-bit range, 500 Hz or 1 kHz max PWM Outputs 2 isolated channels Electrical Power: +5 V @ 450 mA typical, 850 mA maximum Bus: PCI Rev. 2.2 (PCI-1760U) or PCIe (PCIE-1760 models) Connector: 1 $\times$ 37-pin D-type female Physical 175 $\times$ 100 mm Operating: 0–60 $^{\circ}$ C Storage: –20–70 $^{\circ}$ C, 5–95 % RH non-condensing

Key Features Dual relay types eliminate design constraints for switching AC, DC, and mixed loads Programmable digital filtering suppresses contact bounce and transient noise Dual counter channels (16-bit) reach 500 Hz base frequency or 1 kHz optional Opto-isolation protects host circuitry from field signal transients Per-relay LED indicators (red PCI, green PCIe) enable visual diagnostics Jumper-selectable input thresholds accommodate 3 V logic or 30 VDC signals

Typical Applications Process automation: relay-based pump, valve, and motor control Supervisory monitoring: discrete sensor and limit-switch acquisition Counter-based measurement: pulses from encoders and frequency inputs Mixed-signal control: PWM feedback loops with relay sequencing Industrial safety interlocks requiring galvanic isolation

Compatibility & Integration Supported platforms: C#, C++, LabVIEW, VB.Net, BCB, MFC, VB6, Delphi, Java, Matlab, Qt. PCI-1760U models integrate into legacy 3.3 V and 5 V PCI slots; PCIE variants target modern PCIe infrastructure.

PCI1760 Characteristics / Specifications

PARAMETER	VALUE
Model	PCI-1760
Instrument Type	Relay actuator and isolated digital input PCI card
Isolated Digital Input Channels	8
Input Voltage Range	5 to 12 Vdc
Input Logic High	greater than 4.5 V
Input Logic Low	less than 1.0 V
Input Resistance	1 kOhm 1/4 W
Isolation Voltage	2500 VDC
Digital Filter High Period	greater than or equal to [(2 to 65535) x 5 ms] + 5 ms
Up Counter Resolution	16 bits per DI channel
Up Counter Maximum Frequency	500 Hz
Up Counter Minimum High Period	1 ms
Up Counter Minimum Low Period	1 ms
Relay Channels	8
Relay Type	SPDT FormCRelay Contact Rating: 120 Vac at 0.5 A or 30 Vdc at 1 A
Contact Resistance Initial	less than 100 mOhm
Dielectric Coil To Contacts	1500 Vrms 1 minute
Dielectric Open Contacts	1000 Vrms 1 minute
Life Expectancy At 0.5 A 120 Vac	200000 operations
Life Expectancy At 1.0 A 30 Vdc	500000 operations
Operate Time	5 ms maximum
Release Time	5 ms maximum
Pwm Channels	2
Pwm Isolation	2500 VDC
Pwm Scaling Resolution	16 bits 100 ms per step

PARAMETER	VALUE
Pwm Output High Level	5 plus or minus 0.5 V
Pwm Output Low Level	less than 0.8 V
Power Consumption Typical	plus 5 V at 450 mA
Power Consumption Maximum	plus 5 V at 850 mA
Operating Temperature	0 to plus 60 C
Storage Temperature	-20 to plus 70 C
Operating Humidity	5 to 95 percent RH non-condensing
Connector	one 37-pin D-sub
Dimensions	175 × 100 mm (6.9 × 3.9 inches)
Bus Type	PCI
Humidity	5 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to plus 70 C
Operating temperature	0 to plus 60 C
Operating Temperature	0 to plus 60 C
Humidity	5 to 95 percent RH non-condensing
Operating Humidity	5 to 95 percent RH non-condensing
Connector	one 37-pin D-sub
Dimensions	175 × 100 mm (6.9 × 3.9 inches)
Bus Type	PCI Notes From Advantech PCI-1760 datasheet specifications. CH0/CH1 provide NC and NO; CH2 to CH7 select NC or NO by jumper.

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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Notes

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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.