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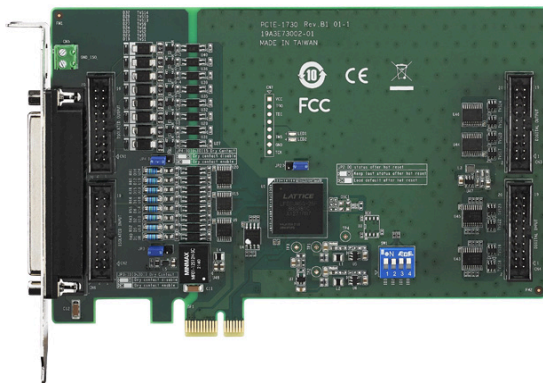
Data Sheet

August 15, 2026

ADVANTECH

Advantech PCIe-1730 32-Channel Isolated Digital I/O PCIe Card

The Advantech PCIe-1730 is a 32-channel isolated digital I/O PCIe card designed for industrial automation and control applications. It provides reliable and safe digital input and output functions with isolation protection to prevent damage from voltage surges and ground loops. Ideal for data acquisition, machine control, and process monitoring.



MODEL

Advantech PCIe-1730

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCIe-1730

LISTING

<https://aumictechlabs.com/products/pcie-1730-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech PCIe-1730 is a 32-channel isolated digital I/O PCIe card designed for industrial automation, machine control, and process monitoring. It combines 16 TTL digital I/O channels with 16 optically isolated digital I/O channels, delivering 2,500 VDC isolation protection against voltage surges and ground loops. The card interfaces via PCI Express v1.0 and connects through one DB37 female connector and four 20-pin box headers. Technical Specifications Bus & Physical PCI Express v1.0 Dimensions: 168 mm × 100 mm (6.6" × 3.9") Operating temperature: 0°C to 60°C Storage temperature: -25°C to 85°C Power consumption: 3.3V @ 280 mA typical, 12V @ 330 mA typical (max: 3.3V @ 420 mA, 12V @ 400 mA) Isolated Digital Input (16 channels) Voltage thresholds: Logic 0 ≤ 3 V, Logic 1 ≥ 10 V (30 V max.) Isolation: 2,500 VDC Input resistance: 2.7 kΩ

@ 1 W Response time: 100 μ s ESD protection: up to 2,000 VDC Over-voltage capable: 70 VDC (short duration) Interrupt channels: 2 (PCIe-1730) or 16 (PCIe-1730H) Isolated Digital Output (16 channels) Type: Sink (NPN) Voltage range: 5 VDC to 40 VDC Max sink current: 500 mA per channel Response time: 50 μ s Isolation: 2,500 VDC TTL Digital Input (16 channels) 5 V TTL compatible Voltage thresholds: Logic 0 $\leq$ 0.8 V, Logic 1 $\geq$ 2.0 V TTL Digital Output (16 channels) 5 V TTL compatible Output voltage: Logic 0 $\leq$ 0.5 V, Logic 1 $\geq$ 2.4 V Sink capability: 24 mA @ 0.5 V Source capability: 15 mA @ 2.4 V Advanced Features (PCIe-1730H) Programmable digital filter times from 64 μ s to 131.072 ms Interrupt support on all 16 isolated input channels with selectable enable/disable per channel

PCIE1730 Characteristics / Specifications

PARAMETER	VALUE
Model	PCIE-1730
Instrument Type	TTL and isolated digital I/O PCI Express card
Ttl Digital Input Channels	16
Ttl Compatibility	5 V TTL
Ttl Input Logic	0.8 V maximum
Ttl Digital Output Channels	16
Ttl Output Logic	0.5 V maximum
Ttl Sink Capability	24 mA at 0.5 V
Ttl Source Capability	15 mA at 2.4 V
Isolated Digital Input Channels	16
Isolated Input Logic	10 V minimum 30 V maximum
Isolated Input Current At 12 Vdc	3.18 mA
Isolated Input Current At 24 Vdc	6.71 mA
Isolation Protection	2500 VDC
Isolated Input Response Time	100 us
Isolated Input Resistance	2.7 kOhm at 1 W
Overvoltage Protection	70 VDC
Esd Protection	2000 VDC
Isolated Digital Output Channels	16
Isolated Output Type	sink NPN
Isolated Output Voltage	5 to 40 VDC
Isolated Sink Current	500 mA maximum per channel
Isolated Output Response Time	100 us
Interruptible Channels Pci e 17	2 (IDIO IDI8)
Bus Type	PCI Express V1.0

PARAMETER	VALUE
I/O Connectors	1 x DB37 female and 4 × 20-pin box header
Dimensions LxH	168 × 100 mm (6.6 × 3.9 inches)
Power Consumption Typical	3.3 V at 280 mA and 12 V at 330 mA
Power Consumption Maximum	3.3 V at 420 mA and 12 V at 400 mA
Operating Temperature	0 to 60 C
Storage Temperature	-25 to 85 C
Storage Humidity	5 to 95 percent RH non-condensing
Humidity	5 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	25 to 85 C
Operating temperature	0 to 60 C
Operating Temperature	0 to 60 C
Humidity	5 to 95 percent RH non-condensing
Storage Humidity	5 to 95 percent RH non-condensing Notes From Advantech PCle-1730/1730H datasheet for PCle-1730 column. PCle-1730H adds digital filter timing table and 16 interruptible channels; this file covers the base PCle-1730 queue 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	
Specifications	
PARAMETER	VALUE
Model	PCIe-1730
Instrument Type	TTL and isolated digital I/O PCI Express card
Ttl Digital Input Channels	16
Ttl Compatibility	5 V TTL
Ttl Input Logic 0	0.8 V maximum
Ttl Input Logic 1	2.0 V minimum
Ttl Digital Output Channels	16
Ttl Output Logic 0	0.5 V maximum
Ttl Output Logic 1	2.4 V minimum
Ttl Sink Capability	24 mA at 0.5 V
Ttl Source Capability	15 mA at 2.4 V
Isolated Digital Input Channels	16
Isolated Input Logic 0	3 V maximum
Isolated Input Logic 1	10 V minimum 30 V maximum
Isolated Input Current At 12 Vdc	3.18 mA
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Isolation Protection	2500 VDC
Isolated Input Response Time	100 us
Isolated Input Resistance	2.7 kOhm at 1 W
Overvoltage Protection	70 VDC
Esd Protection	2000 VDC
Isolated Digital Output Channels	16
Isolated Output Type	sink NPN
Isolated Output Voltage	5 to 40 VDC
Isolated Sink Current	500 mA maximum per channel
Isolated Output Response Time	100 us

PARAMETER	VALUE
Interruptible Channels Pci e 1730	2 (IDI0 IDI8)
Bus Type	PCI Express V1.0
I/O Connectors	1 x DB37 female and 4 x 20-pin box header
Dimensions LxH	168 x 100 mm (6.6 x 3.9 inches)
Power Consumption Typical	3.3 V at 280 mA and 12 V at 330 mA
Power Consumption Maximum	3.3 V at 420 mA and 12 V at 400 mA
Operating Temperature	0 to 60 C
Storage Temperature	-25 to 85 C
Storage Humidity	5 to 95 percent RH non-condensing

Notes
From Advantech PCIe-1730/1730H datasheet for PCIe-1730 column. PCIe-1730H adds digital filter timing table and 16 interruptible channels; this file covers the base PCIe-1730 queue 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.