

**Aumictech**

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Data Sheet

August 15, 2026

ACCES

Acces PCI-DIO-120 Digital Input/Output Card

Acces Digital Input Board. Voltage / Current Range: 1.8V selectable; 32 mA sourcing / 64 mA sinking @ 5V; 0.5A per connector, 2.5V, 3.3V, 5V, Current: 32 mA sourcing or 64 mA sinking at 5V VCCIO.



MODEL

Acces PCI-DIO-120

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCI-DIO-120

LISTING

<https://aumictechlabs.com/products/pci-dio-120-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acces PCI-DIO-120 is a digital input/output card for PCI bus systems, delivering up to 120 channels of configurable digital I/O. Built on FPGA technology that emulates 8255-compatible chips, It has flexible, software-controlled port configuration for industrial automation, data acquisition, and control applications. Each I/O line is buffered and individually manageable through tri-stateable outputs and jumper-configurable pull-up/pull-down resistors. Technical Specifications Digital I/O Channels Up to 120 channels of digital I/O (also available in 72-bit and 96-bit configurations) Three 8-bit ports (A, B, C) with independent input/output configuration Port C subdivides into two 4-bit nybbles via software Interface & Electrical PCI bus (Universal PCI, PCI-X compatible) 3.3V and 5V logic compatible Global jumper-selectable VCCIO: 5V, 3.3V, 2.5V, or 1.8V Output current: 32 mA sourcing or 64 mA sinking at 5V VCCIO 10 kΩ pull-up resistors to +5VDC (jumper-configurable to pull-down) Jumper-selectable pull-up/pull-down resistors per four- and eight-bit ports Interrupt generation capability from Port C bit 3 Power & Connectivity

VCCIO and +5V supply available to user via 50-pin connectors 0.5A resettable fuse per 50-pin connector Physical length: 12.2 inches (310 mm) with 4.2 inches seated height

Key Features

- Buffered I/O lines with global tri-stateable control
- Flexible port configuration supporting input, output, or mixed modes
- Port C configurable as four inputs with four output latches
- Compatible with industry-standard I/O racks (Grayhill, Opto 22, Western Reserve Controls, Gordos, Potter & Brumfield)
- Windows auto-detection (95/98/NT and later)

Typical Applications

Industrial automation, sensor interfacing, relay control, data acquisition systems, and device control requiring multi-channel digital I/O.

Compatibility & Integration

Supported on DOS, Linux, macOS, Windows XP through Windows 10 (32-bit and 64-bit), Windows XPe, WES7, and vxWorks. Includes sample programs and source code in Visual Basic, Delphi, and Visual C++ for Windows. Linux support includes kernel driver installation files and user-level programming samples.

PCIDIO120 Characteristics / Specifications

PARAMETER	VALUE
Model	PCI-DIO-24H
Instrument Type	24 bit PCI digital I/O card
Digital Bits	24
Ppi Device	8255-5 programmable peripheral interface
Port Organization	three 8 bit ports A, B, C withCas two 4 bit nibbles
Buffer Device	74ABT245B tristate transceiver
Output High	2.0 VDC min, source 32 mA
Output Low	0.55 VDC max, sink 64 mA
Input High	2.0 to 5.0 VDC
Input Low	minus 0.5 to plus 0.8 VDC
Input Load High	20 uA
Input Load Low	minus 200 uA
Connector	50 pin IDC header
Card Length	4.80 inches (122 mm)
Bus	5 V PCI slot, universal 3.3 V and 5 V compatible
Auxiliary Power	plus 5 VDC resettable 0.5 A fuse from computer bus
Power Basic	plus 5 VDC at 170 mA (no aux draw)
Power One Counter	plus 5 VDC at 190 mA
Power Two Counters	plus 5 VDC at 210 mA
Power Three Counters	plus 5 VDC at 230 mA
Counter Clock	1 MHz on board crystal
Counter Pulse Width	30 ns high, 50 ns low minimum
Counter Output Drive	source 2.6 mA, sink 24 mA
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to plus 65.6 C

PARAMETER	VALUE
Humidity	90 percent RH maximum without condensation
Rack Compatibility	Grayhill, Opto 22, Western Reserve Controls, Potter and Brumfield 50 pin racks
Regulatory	CE compliant

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to plus 65.6 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	90 percent RH maximum without condensation
Rack Compatibility	Grayhill, Opto 22, Western Reserve Controls, Potter and Brumfield 50 pin racks
Regulatory	CE compliant Notes Numeric rows from ACCES I/O PCI-DIO-24D/H product specifications. PCI-DIO-24D uses a DB37 instead of the 50 pin header; this file is the 24H 50 pin model. Do not copy prices from distributor pages.

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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Bus	5 V PCI slot, universal 3.3 V and 5 V compatible
Auxiliary Power	plus 5 VDC resettable 0.5 A fuse from computer bus
Power Basic	plus 5 VDC at 170 mA (no aux draw)
Power One Counter	plus 5 VDC at 190 mA
Power Two Counters	plus 5 VDC at 210 mA
Power Three Counters	plus 5 VDC at 230 mA
Optional Counter Type: 82C54 programmable interval counters	
Optional Counter Width: 48 bit down counters	
Specifications	
PARAMETER	VALUE
Counter Clock	1 MHz on board crystal
Counter Pulse Width	30 ns high, 50 ns low minimum

PARAMETER	VALUE
Counter Output Drive	source 2.6 mA, sink 24 mA
Operating Temperature	0 C to 50 C
Storage Temperature	minus 40 C to plus 65.6 C
Humidity	90 percent RH maximum without condensation
Rack Compatibility	Grayhill, Opto 22, Western Reserve Controls, Potter and Brumfield 50 pin racks
Regulatory	CE compliant

Notes

Numeric rows from ACCES I/O PCI-DIO-24D/H product specifications. PCI-DIO-24D uses a DB37 instead of the 50 pin header; this file is the 24H 50 pin model. Do not copy prices from distributor pages.

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.