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Data Sheet

August 15, 2026

ACCES

Acces PCI-DIO-24H PCI Bus Digital Input/Output Card

The Acces PCI-DIO-24H is a PCI bus digital I/O card designed for various data acquisition and control applications. It features 24 high-current digital I/O lines, capable of sourcing or sinking up to 250 mA on each channel. This card is ideal for controlling relays, solenoids, and other high-power devices directly from a PC.



MODEL

Acces PCI-DIO-24H

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCI-DIO-24H

LISTING

<https://aumictechlabs.com/products/pci-dio-24h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Acces PCI-DIO-24H is a 24-bit digital input/output card for PCI-bus systems requiring flexible data acquisition and control. Built around 8255-5 PPI chip emulation, it delivers three independent 8-bit ports (A, B, C) with Port C subdivide-able into two 4-bit nibbles - each independently software-configurable for input or output. All 24 I/O lines employ 74ABT245B tristate buffer transceivers, sourcing 32 mA and sinking 64 mA per line. The card supports both universal PCI and PCI-X slots at 3.3 V or 5 V logic levels via jumper selection. Configurable pull-up/pull-down resistors (10 kΩ) on all ports and a resettable 0.5 A fused +5 VDC auxiliary output enable direct integration with external control hardware. Optional 1 MHz or 10 MHz counters - based on 82C54 programmable interval timers with 48-bit range - are available for timing-critical

applications. Technical Specifications Digital I/O Lines: 24 bits Interface: PCI Bus (universal PCI, PCI-X compatible) Core Logic: 8255-5 PPI chip emulation; 82C55 Mode 0 programming support Port Configuration: Three independent 8-bit ports; Port C subdivides into two 4-bit nibbles Output Drive: 32 mA sourcing, 64 mA sinking per line Logic Levels (5 V VCCIO): Low input ≤ 1.5 V, high input ≥ 3.5 V; low output ≤ 0.55 V @ 64 mA, high output ≥ 2.4 V @ -15 mA or ≥ 3.8 V @ 32 mA Logic Levels (3.3 V VCCIO): Low input ≤ 0.8 V, high input ≥ 2.0 V; low output ≤ 0.55 V @ 24 mA, high output ≥ 2.4 V @ 24 mA Pull-up/Pull-down Resistors: 10 k Ω , jumper selectable per port Auxiliary Power Output: +5 VDC @ 0.5 A (resettable fuse) Power Consumption: 170 mA basic unit; 190 mA with one 1 MHz counter; 230 mA with three 1 MHz counters Optional Counters: 1 MHz or 10 MHz (82C54-based, 48-bit range) Key Features Per-port input/output software selection Programmable buffer enable/disable control On-board 1 MHz crystal-controlled oscillator for counter operation High input impedance (74LS373 input buffers) Configurable I/O voltage (3.3 V or 5 V) Typical Applications Industrial data acquisition and control PLC-compatible relay and discrete I/O interfacing Multi-channel digital switching and signal routing Timing-critical automation (with optional counters) Compatibility & Integration The PCI-DIO-24H works with industry-standard I/O racks from Western Reserve Controls, Gordos, and OPTO22, supporting direct field-device integration without additional interface modules.

PCIDIO24H 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	
Specifications	
PARAMETER	VALUE
Model	PCI-DIO-24H
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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
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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
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 ·
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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.