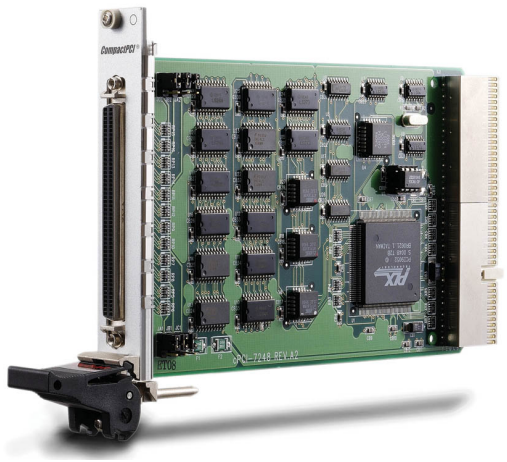
ADLINK

Adlink cPCI-7248 CompactPCI 48-Channel Digital I/O Card

Adlink Digital Input Board. Voltage / Current Range: ≤0.5 V (low); Power: 5 V DC @ 470-560 mA, 0.0 V to 0.80 V (low); Output: ≥2.4 V (high), Input: 2.0 V to 5.25 V (high), Channels: 48 channels (two 24-point connectors), Current: 20.0 µA (high).



MODEL	CALIBRATION
Adlink cPCI-7248	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
cPCI-7248	https://aumictechlabs.com/products/cpci-7248-2/

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The ADLINK cPCI-7248 is a 3U CompactPCI digital I/O card delivering 48 channels of parallel input/output for industrial automation, process monitoring, and machine control. It emulates two industry-standard 8255 Programmable Peripheral Interface chips in Mode 0, with each PPI providing three 8-bit ports (A, B, C) or subdivided 4-bit nibble configurations. The card integrates programmable timer/counters - one 16-bit event counter and one 32-bit timer for interrupt generation - along with dual interrupt capability from DIO channels and timer outputs.A single 100-pin SCSI-type connector supporting Opto-22 external devices simplifies integration into existing industrial systems.Technical Specifications Form Factor: 3U CompactPCI, 32-bit CompactPCI bus Digital I/O Channels: 48 channels (two 24-point connectors) Input Logic Levels: 2.0 V to 5.25 V (high); 0.0 V to 0.80 V (low) Input Current: 20.0 µA (high); -0.2 mA (low) Output

Logic Levels: ≥2.4 V (high); ≤0.5 V (low) Output Current: -15.0 mA (high); 24.0 mA (low) Timer/Counter: 16-bit counter; 32-bit timer Data Transfer Rate: 500 K bytes/sec maximum Power Consumption: 470 mA typical @ 5 V DC; 560 mA maximum @ 5 V DC Operating Temperature: 0 °C to 60 °C Storage Temperature: -20 °C to 80 °C Humidity: 5% to 95% non-condensingKey Features High-density 48-channel parallel I/O in compact 3U form factor Industry-standard 8255 PPI emulation enables legacy software compatibility Programmable interrupt sources from digital I/O and timer outputs 100-pin SCSI connector with Opto-22 header compatibility Configurable port nibbles for flexible I/O groupingTypical Applications Data acquisition systems, industrial process control, machine automation, distributed I/O platforms, and legacy system upgrades requiring parallel digital control.Compatibility & Integration Fully compatible with PCI-7248 software. PCIS-DASK development kit supported. Operates in CompactPCI systems compliant with PICMG 2.0 Rev 2.1.

CPCI7248 Characteristics / Specifications

PARAMETER	VALUE
Model	cPCI-7248
Instrument Type	CompactPCI 48 channel digital I/O
Bus	3U 32-bit CompactPCI
Digital Channels	48 inputs/outputs
Compatibility	5 V TTL
Power On States	pull-high pull-low floating programmable
Input High Voltage	2 to 5.25 V
Input Low Voltage	0 to 0.8 V
Output High Voltage Minimum	2.4 V
Output Low Voltage Maximum	0.5 V
Output Source Current	15 mA
Output Sink Current	24 mA
Data Transfers	programmed I/O
Event Counter	16-bit
Timer	32-bit based on 2 MHz internal clock
Interrupt Sources Group	P1C0 P1C3 16-bit event counter
Io Connector	one 100-pin SCSI-II female
Operating Temperature	0 C to 60 C
Storage Temperature	minus 20 C to 80 C
Relative Humidity	5 percent to 95 percent noncondensing
Emulated Ppi Ports	PortAPortBPortCwith PortCnibble split
Related Rear Io Model	cPCI-7249R not for PXI chassis
Software Compatibility	compatible with PCI-7248 programming model
Humidity	5 percent to 95 percent noncondensing

CPCI7248 Specifications

PARAMETER	VALUE
Key Features	48 TTL digital I/O channels
Technical Specifications	Model: cPCI-7248
Notes	Numeric rows from ADLINK cPCI-7248/7249R datasheet and CP724896 series manual.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to 80 C
Operating temperature	0 C to 60 C
Operating Temperature	0 C to 60 C
Humidity	5 percent to 95 percent noncondensing
Relative Humidity	5 percent to 95 percent noncondensing
Emulated Ppi Ports	PortAPortBPortCwith PortCnibble split
Related Rear Io Model	cPCI-7249R not for PXI chassis
Software Compatibility	compatible with PCI-7248 programming model Notes Numeric rows from ADLINK cPCI-7248/7249R datasheet and CP724896 series manual.

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	cPCI-7248
Instrument Type	CompactPCI 48 channel digital I/O
Bus	3U 32-bit CompactPCI
Digital Channels	48 inputs/outputs
Compatibility	5 V TTL
Power On States	pull-high pull-low floating programmable
Input High Voltage	2 to 5.25 V
Input Low Voltage	0 to 0.8 V
Output High Voltage Minimum	2.4 V
Output Low Voltage Maximum	0.5 V
Output Source Current	15 mA
Output Sink Current	24 mA
Data Transfers	programmed I/O
Event Counter	16-bit
Timer	32-bit based on 2 MHz internal clock
Interrupt Sources Group0	P1C0 P1C3 16-bit event counter
Interrupt Sources Group1	P2C0 P2C3 32-bit timer
Io Connector	one 100-pin SCSI-II female
Operating Temperature	0 C to 60 C
Storage Temperature	minus 20 C to 80 C
Relative Humidity	5 percent to 95 percent noncondensing
Emulated Ppi Ports	PortAPortBPortCwith PortCnibble split
Related Rear Io Model	cPCI-7249R not for PXI chassis
Software Compatibility	compatible with PCI-7248 programming model

Notes
Numeric rows from ADLINK cPCI-7248/7249R datasheet and CP724896 series manual.

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
788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
https://aumictechlabs.com

NIST-traceable calibration · SAM registered · 30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026