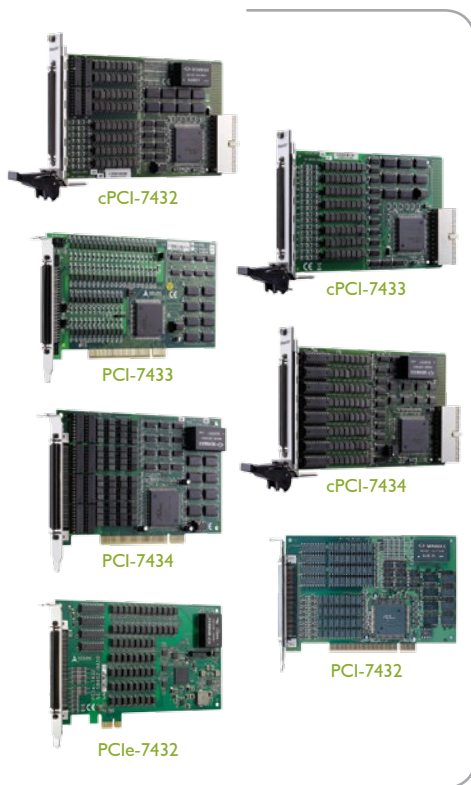


# PCI/cPCI-7432/7433/7434, PCIe-7432

64-CH Isolated Digital I/O Cards, 32-CH Isolated Digital Input & 32-CH Isolated Digital Output card

PCI EXPRESS® **PCI CompactPCI**



## Specifications

### Isolated Digital Input

- Number of channels
  - 32 (PCI-7432/7432HIR, cPCI-7432, PCIe-7432/7432HIR)
  - 64 (PCI-7433/7433HIR, cPCI-7433)
- Maximum input range (Non-polarity)
  - 5~24V, non-polarity (PCI-7432/7433, cPCI-7432/7433, PCIe-7432)
  - 12~50V, non-polarity (PCI-7432HIR/7433HIR, PCIe-7432HIR)
- Digital logic levels: non-polarity (PCI-7432/7433, cPCI-7432/7433, PCIe-7432)
  - Input high voltage: 5V to 24V
  - Input low voltage: 0V to 1.3V
- Digital logic levels: non-polarity (PCI-7432HIR/7433HIR, PCIe-7432HIR)
  - Input high voltage: 12V to 50V
  - Input low voltage: 0V to 2V
- Input resistance
  - 2.4 kΩ @ 0.5 W (PCI-7432, cPCI-7432, cPCI-7433, PCIe-7432)
  - 2.4 kΩ @ 1 W (PCI-7433)
  - 4.7 kΩ @ 0.5 W (PCI-7432HIR, PCIe-7432HIR)
  - 4.7 kΩ @ 1 W (PCI-7433HIR)
- Isolation voltage: 2500 V<sub>RMS</sub>: PCI-7432/7432HIR/7433/7433HIR/PCIe-7432/7432HIR  
5000 V<sub>RMS</sub>: cPCI-7432/7433
- Interrupt sources: digital input channel 0 & 1
- Data transfers: programmed I/O

### Isolated Digital Output

- Number of channels
  - 32 (PCI-7432/7432HIR, cPCI-7432, PCIe-7432/7432HIR)
  - 64 (PCI-7434, cPCI-7434)
- Output type: open collector Darlington transistor
- Sink current (PCI-7432/7432HIR/7434, cPCI-7434, PCIe-7432/7432HIR)
  - All channels "ON" : 120mA @ 24V
  - Single channel "ON": 500mA @ 24V
- Source current (cPCI-7434P)
  - All channels "ON" : 260mA @ 24V
  - Single channel "ON" : 500mA @ 24V
- Power dissipation: Max. 2.25 W per chip (8 DO channels) (PCI-7432/7432HIR/7434, cPCI-7432/7434, PCIe-7432/7432HIR)  
Max. 1.47 W per chip (8 DO channels) (cPCI-7434P)
- Supply voltage: 5-35 V
- Isolation voltage: 2500 V<sub>RMS</sub>
- Data transfers: programmed I/O

### General Specifications

- I/O connector: 100-pin SCSI-II female
- Operating temperature: 0°C to 60°C (32°F to 140°F)
- Storage temperature: -20°C to 80°C (-4°F to 176°F)
- Relative humidity: 5% to 95%, non-condensing
- Power requirements

	PCI-7432 PCI-7432HIR cPCI-7432	PCI-7433 PCI-7433HIR cPCI-7433	PCI-7434 cPCI-7434P	PCIe-7432 PCIe-7432HIR
	+5V	+5V	+5V	+3.3V +12V
Typical	530mA	500mA	560mA	36.6mA 150mA
Max.				38.2mA 500mA

- Dimensions (not including connectors)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7432 & PCI-7432HIR)
  - 175 mm x 107 mm (6.82" x 4.17") (PCI-7433, PCI-7433HIR, PCIe-7432 & PCIe-7432HIR)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7434)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7434P)
  - 160 mm x 100 mm (6.24" x 3.9") (cPCI-7432/7433/7434)

## Terminal Boards & Cables

### DIN-100S-01

Terminal Board with One 100-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)

### ACL-102100-I

100-pin SCSI-II cable (mating with AMP-787082-9), 1 M

\* For more information on mating cables, please refer to P3-48/49.

### Note:

Legacy DIN-502S can be replaced by two DIN-50S-01 and ACL-10252-I (100-Pin to two 50-Pin Cable, 1 M)

## Ordering Information

- **PCI-7432**  
32-CH Isolated DI & 32-CH Isolated DO PCI Card
- **PCI-7432HIR**  
32-CH Isolated DI & 32-CH Isolated DO PCI Card with High Input Range
- **PCI-7433**  
64-CH Isolated DI PCI card
- **PCI-7433HIR**  
64-CH Isolated DI PCI Card with High Input Range
- **PCI-7434**  
64-CH Isolated DO PCI Card
- **cPCI-7433**  
64-CH Isolated DI cPCI Card
- **cPCI-7434**  
64-CH Isolated DO cPCI Card
- **cPCI-7434P**  
64-CH Isolated DO cPCI Card with Source Current Transistor
- **PCIe-7432**  
32-CH Isolated DI & 32-CH Isolated DO PCIe Card
- **PCIe-7432HIR**  
32-CH Isolated DI & 32-CH Isolated DO PCIe Card with High Input Range

## Features

- Supports a 32-Bit 5 V PCI bus (PCI-7432/7433/7434), x1 PCI Express interface (PCIe-7432)
- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1) (cPCI-7432/7433/7434)
- 32-CH isolated digital inputs & 32-CH isolated digital outputs (PCI-7432/7432HIR, cPCI-7432, PCIe-7432/7432HIR)
- 64-CH isolated digital inputs (PCI-7433/7433HIR, cPCI-7433)
- 64-CH isolated digital outputs (PCI-7434, cPCI-7434/7434P)
- Isolation Voltage:
  - 2500 V<sub>RMS</sub>: PCI-7432/7433/7434/PCIe-7432
  - 5000 V<sub>RMS</sub>: cPCI-7432/7433/7434/7434P
- Sink current up to 500 mA on single isolated output
- Isolated input voltage up to 24 V (PCI-7432/7433, cPCI-7432/7433, PCIe-7432/7432HIR)
- Isolated input voltage up to 50 V (PCI-7432HIR/7433HIR)
- Two external interrupt sources (PCI-7432/7432HIR/7433/7433HIR, cPCI-7432/7432RP/7433, PCIe-7432/7432HIR)
- Supported Operating System
  - Windows 7/8.1 x64/x86, Linux
- Driver and SDK
  - LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET
- Software Utility
  - AD-Logger