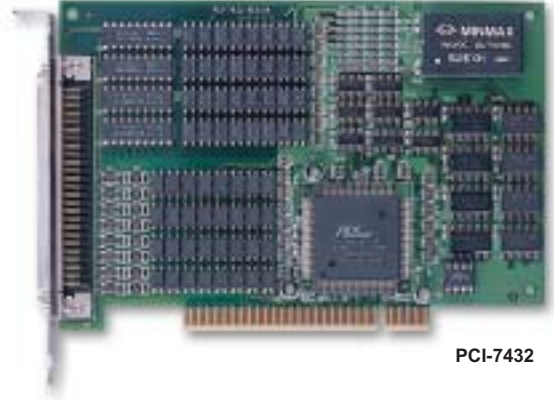


PCI-7432/7433/7434

64-CH Isolated Digital I/O Cards

Features

- Supports a 32-bit 5 V PCI bus
 - 32-CH isolated digital inputs & 32-CH isolated digital outputs (PCI-7432 & PCI-7432HIR)
 - 64-CH isolated digital inputs (PCI-7433 & PCI-7433HIR)
 - 64-CH isolated digital outputs (PCI-7434)
 - Non-polarity digital input range (PCI-7432, PCI-7432HIR, PCI-7433 & PCI-7433HIR)
 - 60 Hz AC signal input detection capability (PCI-7433ALC)
 - 2500 VRMS optical isolation
 - Sink current up to 500 mA on each isolated output
 - Isolated input voltage up to 24 V (PCI-7432 & PCI-7433)
 - Isolated input voltage up to 50 V (PCI-7432HIR & PCI-7433HIR)
 - Two external interrupt sources (PCI-7432, PCI-7432HIR, PCI-7433 & PCI-7433HIR)
 - Compact, half-size PCB
- **Operating Systems**
 - Windows 2000/NT/XP/9x
 - DOS
 - Red Hat Linux
 - Windows CE (call for availability)
 - **Recommended Software**
 - VB/VC++/BCB/Delphi
 - DAQBench
 - **Driver Support**
 - PCIS-DASK for Windows 2000/NT/XP/9x
 - PCIS-DASK/X for Red Hat Linux
 - PCIS-OCX ActiveX controls
 - PCIS-LVIEW/PnP **NEW!**



PCI-7432

Introduction

ADLINK PCI-743X series cards are 64-CH high-density digital input and/or output cards. They provide a robust 2,500 V isolation protection which is suitable for most industrial applications. The wide input range of the PCI-7432 and PCI-7433 makes it easy to sense the status of external devices. There are several options for PCI-743X series, such as normal version with input range from 0 to 24 V, as well as HIR version with high input range from 0 to 50 V. The PCI-7433ALC provides more flexibility to extend the signal type from DC to AC, thus the PCI-7433ALC is suitable for AC power test system.

The PCI-7432 and PCI-7434 feature a wide output range from 5 to 35 V, suitable for relay driving and industrial automation applications. The PCI-7432 and PCI-7433 also provide two interrupt sources on digital input channels, which are easily user configurable.

Specifications

Isolated Digital Input

- Number of channels
 - 32 (PCI-7432 & PCI-7432HIR)
 - 64 (PCI-7433 & PCI-7433HIR)
- Maximum input range (Non-polarity)
 - 24 V, non-polarity (PCI-7432 & PCI-7433)
 - 50 V, non-polarity (PCI-7432HIR & PCI-7433HIR)
 - 24 V, AC input amplitude @ 60 Hz (PCI-7433ALC)
- Digital logic levels
 - 0-24 V, non-polarity (PCI-7432 & PCI-7433)
 - Input high voltage: 5-24 V
 - Input low voltage: 0-1.5 V
 - 0-50 V, non-polarity (PCI-7432HIR & PCI-7433HIR)
 - Input high voltage: 10-50 V
 - Input low voltage: 0-2 V
 - 0-24 V, AC input amplitude @ 60 Hz (PCI-7433ALC)
 - Input high voltage: 5-24 V
 - Input low voltage: 0-1 V
- Input Resistance
 - 2.4 kΩ @ 0.5 W (PCI-7432 & PCI-7433)
 - 2.4 kΩ @ 1 W (PCI-7433)
 - 4.7 kΩ @ 0.5 W (PCI-7432HIR)
 - 4.7 kΩ @ 1 W (PCI-7433HIR)
- Isolation voltage: 2500 VRMS
- Interrupt sources: digital input channel 0 & 1
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels
 - 32 (PCI-7432 & PCI-7432HIR)
 - 64 (PCI-7434)
- Output type: open collector Darlington transistor
- Sink current
 - 500 mA for one channel @ 100% duty
 - 500 mA for all channels @ 20% duty
- Power dissipation: Max. 2.25 W per chip (8 DO channels)
 - Supply voltage: 5-35 V
 - Isolation voltage: 2500 VRMS
 - Data transfers: programmed I/O

General Specifications

- I/O connector: 100-pin SCSI-II female
- Operating temperature: 0 to 60 °C
- Storage temperature: -20 to 80 °C
- Relative humidity: 5 to 95%, noncondensing
- Power requirements

Device	+5 V
PCI-7432	530 mA typical
PCI-7432HIR	530 mA typical
PCI-7433	500 mA typical
PCI-7433HIR	500 mA typical
PCI-7433ALC	500 mA typical
PCI-7434	560 mA typical

- Dimensions (not including connectors)
 - 156 mm x 106 mm (PCI-7432 & PCI-7432HIR)
 - 175 mm x 107 mm (PCI-7433, PCI-7433HIR & PCI-7433ALC)
 - 156 mm x 106 mm (PCI-7434)

Termination Boards

- **DIN-100S**
Termination Board with a 100-pin SCSI-II Connector and DIN-Rail Mounting (Including One 1-meter ACL-102100 Cable)
- **DIN-502S**
Two Pieces of DIN-50S Termination Board (Including One 1-meter ACL-10252 Cable)

Ordering Information

- **PCI-7432**
32-CH Isolated DI & 32-CH Isolated DO Card
- **PCI-7432HIR**
32-CH Isolated DI & 32-CH Isolated DO Card with High Input Range
- **PCI-7433**
64-CH Isolated DI Card
- **PCI-7433HIR**
64-CH Isolated DI Card with High Input Range
- **PCI-7433ALC**
64-CH Isolated DI Card for AC signal input detection
- **PCI-7434**
64-CH Isolated DO Card