

PCI-7230/7233/7234, LPCI/LPCle/cPCI-7230

32-CH Isolated DIO Cards

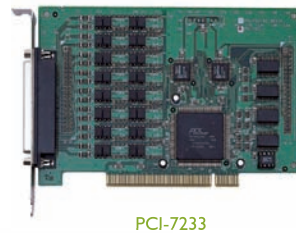
PCI EXPRESS® **PCI** CompactPCI



PCI-7230



PCI-7234/7234P



PCI-7233



LPCI-7230



LPCle-7230



cPCI-7230

Features

- Support a 32-bit 5 V PCI bus (PCI-7230/7233/7234/7234P)
- Support a 32-bit 3.3 V or 5 V PCI bus (LPCI-7230)
- x1 lane PCI Express Interface (LPCle-7230)
- 3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1) (cPCI-7230)
- 16-CH isolated digital inputs & 16-CH isolated digital outputs (PCI-7230/LPCI-7230/LPCle-7230/cPCI-7230)
- 32-CH isolated digital inputs (PCI-7233)
- 32-CH isolated digital outputs (PCI-7234/7234P)
- 5000 V_{RMS} optical isolation (PCI-7230 & PCI-7233/cPCI-7230)
- 2500 V_{RMS} optical isolation (PCI-7234/7234P/LPCI-7230/LPCle-7230)
- Sink current up to 500 mA on each isolated output
- Two external interrupt sources (PCI-7230/LPCI-7230/LPCle-7230/cPCI-7230)
- Change-of-state interrupt sources (PCI-7233)
- Compact, low-profile PCI/PCI Express® size PCB (LPCI-7230/LPCle-7230)

Operating Systems

- Windows Vista/XP/2000/2003
- Linux
- Windows CE (call for availability)

Recommended Software

- AD-Logger
- VB.NET/VC.NET/VB/VC++/BCB/Delphi
- DAQBench

Driver Support

- DAQPilot for Windows
- DAQPilot for LabVIEW™
- DAQ-MTLB for MATLAB®
- PCIS-DASK for Windows
- PCIS-DASK/X for Linux

Introduction

ADLINK's PCI/LPCI/LPCle/cPCI-723X series are 32-CH isolated input and/or output cards which provide a 2,500 V optical isolation protection. The wide input range of the PCI/cPCI/LPCI/LPCle-7230 and PCI-7233 makes it easy to sense the status of external devices. The non-polarity characteristic is suitable for a wide variety of industry applications. The PCI/cPCI/LPCI/LPCle-7230 and PCI-7234 devices also feature a wide output range from 5 to 35 V, which is suitable for relay driving and industrial automation applications. The PCI-7234P provides current-source output capability. The PCI/cPCI/LPCI/LPCle-7230 and PCI-7233 also provide two interrupt sources on digital input channels. The PCI-7233 also features a change-of-state (COS) function that generates an interrupt when any digital input changes its state.

Specifications

Isolated Digital Input

- Number of channels
 - 16 (PCI-7230/LPCI-7230/LPCle-7230/cPCI-7230)
 - 32 (PCI-7233)
- Maximum input range
 - 24 V, non-polarity
 - PCI-7230/PCI-7233/LPCI-7230/LPCle-7230
- Digital logic levels
 - 0-24 V, non-polarity
 - Input high voltage: 5-24 V
 - Input low voltage: 0-1.5 V
- Input resistance: 1.2 k @ 0.5 W
- Isolation voltage
 - 2500 V_{RMS} (LPCI-7230/LPCle-7230)
 - 5000 V_{RMS} (PCI-7230/PCI-7233/cPCI-7230)
- Interrupt sources
 - Digital input channel 0 and 1 (PCI-7230/LPCI-7230/LPCle-7230/cPCI-7230)
 - Change-of-state (PCI-7233)
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels
 - 16 (PCI-7230/LPCI-7230/LPCle-7230/cPCI-7230)
 - 32 (PCI-7234)
- Output type: Darlington transistor

- Sink current
 - 500 mA for one channel @ 100% duty (PCI-7230/LPCI-7230/LPCle-7230)
 - 370 mA for all channels @ 10% duty (PCI-7230/LPCI-7230/LPCle-7230)
 - 130 mA for all channels @ 50% duty (PCI-7230/LPCI-7230/LPCle-7230)
 - 500 mA for one channel @ 100% duty (PCI-7234)
 - 500 mA for all channels @ 20% duty (PCI-7234)
- Source current
 - 500 mA for one channel @ 100% duty cycle (PCI-7234P)
 - 260 mA for all channels @ 10% duty cycle (PCI-7234P)
- Power dissipation
 - Max. 1.47 W per chip (8 DO channels) (PCI-7230/PCI-7234P/LPCI-7230/LPCle-7230)
 - Max. 2.25 W per chip (8 DO channels) (PCI-7234)
- Supply voltage: 5-35 V_{DC}
- Isolation voltage: 2500 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector
 - PCI-7230/7233/7234/7234P
 - 37-pin D-sub female
 - PCI-7230/LPCI-7230/cPCI-7230
 - 50-pin SCSI-II female

