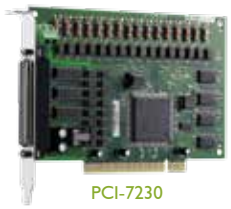
PCI/LPCI/LPCIe-7230, PCI-7233/7234

32-CH Isolated DIO Cards

CompactPCI

PCI EXPRESS® PCI



PCI-7230



PCI-7233



LPCIe-7230



LPCI-7230

Features

- **Supports a 32-Bit 5 V PCI bus (PCI-7230/7233/7234/7234P)**
- **Supports a 32-Bit 3.3 V or 5 V PCI bus (LPCI-7230)**
- **x1 lane PCI Express Interface (LPCIe-7230)**
- **16-CH isolated digital inputs & 16-CH isolated digital outputs (PCI-7230/LPCI-7230/LPCIe-7230)**
- **32-CH isolated digital inputs (PCI-7233)**
- **32-CH isolated digital outputs (PCI-7234/7234P)**
- **5000 Vrms optical isolation (PCI-7230 & PCI-7233)**
- **2500 Vrms optical isolation (PCI-7234/7234P/LPCI-7230/LPCIe-7230)**
- **Sink current up to 500 mA on single isolated output**
- **Two external interrupt sources (PCI-7230/LPCI-7230/LPCIe-7230)**
- **Change-of-state interrupt sources (PCI-7233)**
- **Compact, low-profile PCI/PCI Express® size PCB (LPCI-7230/LPCIe-7230)**

Supported Operating System

- Windows 7/8 x64/x86, Linux

Driver and SDK

- LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Software Utility

- AD-Logger

Specifications

Isolated Digital Input

- Number of channels
  - 16 (PCI-7230/LPCI-7230/LPCIe-7230)
  - 32 (PCI-7233)
- Maximum input range
  - 24 V, non-polarity
  - PCI-7230/PCI-7233/LPCI-7230/LPCIe-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/LPCIe-7230)
  - 5000 V_{RMS} (PCI-7230/PCI-7233)
- Interrupt sources
  - Digital input channel 0 and 1 (PCI-7230/LPCI-7230/LPCI-7230)
  - Change-of-state (PCI-7233)
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels
  - 16 (PCI-7230/LPCI-7230/LPCIe-7230)
  - 32 (PCI-7234)
- Output type: Darlington transistor
- Sink current
  - 500 mA for one channel @ 100% duty (PCI-7230/LPCI-7230/LPCIe-7230)
  - 370 mA for all channels @ 10% duty (PCI-7230/LPCI-7230/LPCIe-7230)
  - 130 mA for all channels @ 50% duty (PCI-7230/LPCI-7230/LPCIe-7230)
  - 500 mA for single 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/LPCIe-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
    - One 50-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

Device	Power Consumption
PCI-7230	+5 V @ 150 mA typical (needs external DC power)
PCI-7233	+5 V @ 300 mA typical
PCI-7234	+5 V @ 180 mA typical (with internal DC-DC power)
PCI-7234P	+5 V @ 150 mA typical
LPCI-7230	+3.3 V @ 279 mA
LPCIe-7230	+12 V @ 133 mA

- Dimensions (not including connectors)
  - 153 mm X 107 mm (5.96" x 4.17") (PCI-7230)
  - 158 mm X 107 mm (6.16" x 4.17") (PCI-7233)
  - 175 mm x 107 mm (6.82" x 4.17") (PCI-7234 & PCI-7234P)
  - 120 mm X 65 mm (4.68" x 2.53") (LPCI-7230)
  - 119.9 mm x 68.9 mm (4.67" x 2.68") (LPCIe-7230)

Terminal Boards & Cables

PCI-7230/7233/7234/7234P:

- DIN-37D-01
  Terminal Board with One 37-pin D-sub Connector and DIN-Rail Mounting (Cables are not included.)
- ACLD-9137-01
  General-Purpose Terminal Board with One 37-pin D-sub Male Connector
- ACL-10137-1MM
  37-pin D-sub male/male cable, 1 M

LPCI-7230/LPCIe-7230:

- DIN-50S-01
  Terminal Board with One 50-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)
- ACL-10250-1
  50-pin SCSI-II cable (mating with AMP-787082-5), 1 M

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

Ordering Information

- **PCI-7230**
  16-CH Isolated DI & 16-CH Isolated DO Card
- **PCI-7233**
  32-CH Isolated DI Card with inversed input logic
- **PCI-7234**
  32-CH Isolated DO Card
- **PCI-7234P** (EOL)
  32-CH Isolated DO Card with Source Current Transistor
- **LPCI-7230**
  16-CH Isolated DI & 16-CH Isolated DO Low-Profile PCI Card
- **LPCIe-7230**
  16-CH Isolated DI & 16-CH Isolated DO Low-Profile PCI Express® Card

LRI Distribuída no Brasil pela LRI | vendas@lri.com.br | 51 2129-3000

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