PCI/LPCI/LPCIe-7250, PCI-7251, cPCI-7252

8-CH Relay Outputs & 8-CH Isolated DI Cards

CompactPCI

PCI EXPRESS® PCI



PCI-7250



PCI-7250+PCI-7251



LPCI-7250



LPCIe-7250



cPCI-7252

Features

- **Supports a 32-Bit 5 V PCI bus (PCI-7250/7251)**
- **Supports a 32-Bit 3.3 V or 5 V PCI bus (LPCI-7250)**
- **x1 lane PCI Express Interface (LPCIe-7250)**
- **3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1) (cPCI-7252)**
- **4-CH SPDT & 4-CH SPST relays (PCI-7250)**
- **8-CH SPDT & 8-CH SPST relays (PCI-7250 + 1 x PCI-7251)**
- **12-CH SPDT & 12-CH SPST relays (PCI-7250 + 2 x PCI-7251)**
- **16-CH SPDT & 16-CH SPST relays (PCI-7250 + 3 x PCI-7251)**
- **8-CH SPDT (LPCI-7250/LPCIe-7250/cPCI-7252)**
- **Non-latching relays**
- **Onboard LED indicators for relay status**
- **Onboard relay driving circuits**
- **Relay output status read back**
- **8-CH isolated digital inputs (cPCI-7252/PCI-7250/LPCI-7250/LPCIe-7250)**
- **16-CH isolated digital inputs (PCI-7250 + 1 x PCI-7251)**
- **24-CH isolated digital inputs (PCI-7250 + 2 x PCI-7251)**
- **32-CH isolated digital inputs (PCI-7250 + 3 x PCI-7251)**
- **Onboard low-pass filtering for digital inputs**
- **Compact, low-profile size PCB (LPCI-7250/LPCIe-7250)**

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

Relay Output

- Number of channels: 8
- Relay types
  - PCI-7250/7251:
    - Channel 0-3: SPDT (normal open)
    - Channel 4-7: SPST (normal open)
  - LPCI-7250/LPCIe-7250/cPCI-7252
    - Channel 0-7: SPDT (normal open)
- Contact rating
  - PCI-7250/7251 & cPCI-7252
    - AC: 120 V @ 0.5 A
    - DC: 24 V @ 1 A
  - LPCI-7250/LPCIe-7250
    - DC: 30 V @ 2 A
- Breakdown voltage: 1000 V_{RMS}
- Contact resistance: 100 m
- Relay ON/OFF time
  - Operate time: 8 ms
  - Release time: 8 ms
- LED indicators: onboard LEDs for relay status
- Expected life
  - PCI-7250/7251 & cPCI-7252
    - $>5x10^5$ operations @ 1 A, 24 V_{DC}
    - $>2x10^5$ operations @ 0.5 A, 120 V_{AC}
  - LPCI-7250/LPCIe-7250:
    - $>10^5$ operations @ 2 A, 30 V_{DC}
    - $>5x10^5$ operations @ 1 A, 30 V_{DC}
- Data transfers: programmed I/O

Isolated Digital Input

- Number of channels: 8
- Maximum input range: 24 V, non-polarity
- Digital logic levels
  - 0-24 V, non-polarity
    - Input high voltage:
      5-24 V (PCI/LPCI/LPCIe-7250, PCI-7251)
      3-24 V (cPCI-7252)
    - Input low voltage:
      0-1.5 V (PCI/LPCI/LPCIe-7250, PCI-7251)
      0-1 V (cPCI-7252)
- Input resistance: 2.2 kΩ @ 0.33 W (PCI/LPCI/LPCIe-7250, PCI-7251) 1.2 kΩ @ 0.5 W (cPCI-7252)
- Isolation voltage: 5000 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector
  - PCI-7250/7251
    - 37-pin D-sub female
  - LPCI-7250/LPCIe-7250/cPCI-7252
    - 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-7250	+5 V @ 140 mA typical
PCI-7251	+5 V @ 125 mA typical
LPCI-7250	+5 V @ 200 mA typical
LPCIe-7250	+3.3 V @ 280 mA +12 V @ 180 mA

- Dimensions (not including connectors)
  - 162 mm x 107 mm (6.31" x 4.17") (PCI-7250)
  - 141 mm x 102 mm (5.49" x 3.97") (PCI-7251)
  - 120 mm x 65 mm (4.68" x 2.53") (LPCI-7250)
  - 120 mm x 69 mm (4.68" x 2.69") (LPCIe-7250)
  - 160 mm x 100 mm (6.24" x 3.9") (cPCI-7252)

Terminal Boards & Cables

PCI-7250/7251:

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-7250/LPCIe-7250/cPCI-7252:

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-7250**
  8-CH Relay Outputs & 8-CH Isolated DI Card
- **PCI-7251**
  8-CH Relay Outputs & 8-CH Isolated DI Extension Card for PCI-7250
- **LPCI-7250**
  8-CH Relay Outputs & 8-CH Isolated DI Low-Profile PCI Card
- **LPCIe-7250**
  8-CH Relay Outputs & 8-CH Isolated DI Low-Profile PCI Express Card
- **cPCI-7252**
  8-CH Relay Output & 16-CH Isolated DI Module

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