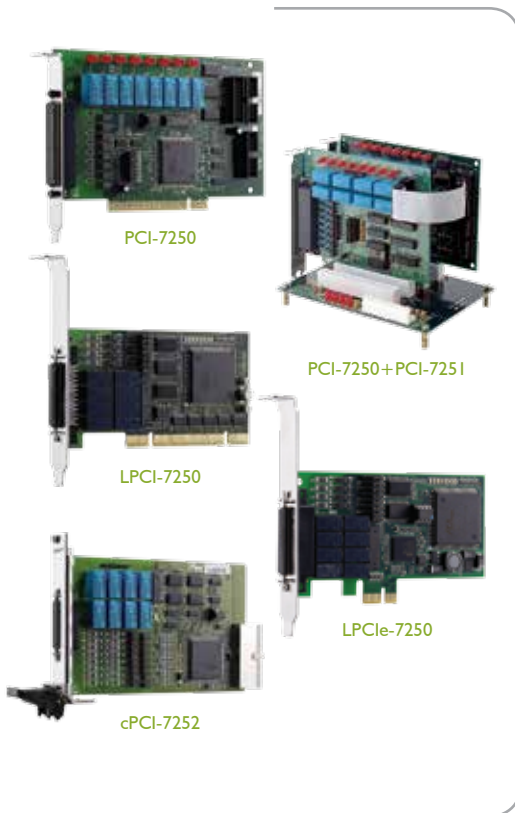


# PCI/LPCI/LPCle-7250, PCI-7251, cPCI-7252

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

**CompactPCI**
**PCI EXPRESS®**


### 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/LPCle-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/LPCle-7250
    - DC: 30 V @ 2 A
- Breakdown voltage: 1000 V<sub>RMS</sub>
- 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<sup>5</sup> operations @ 1 A, 24 V<sub>DC</sub>
    - >2x10<sup>5</sup> operations @ 0.5 A, 120 V<sub>AC</sub>
  - LPCI-7250/LPCle-7250:
    - >10<sup>5</sup> operations @ 2 A, 30 V<sub>DC</sub>
    - >5x10<sup>5</sup> operations @ 1 A, 30 V<sub>DC</sub>
- 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/LPCle-7250, PCI-7251)
      - 3-24 V (cPCI-7252)
    - Input low voltage:
      - 0-1.5 V (PCI/LPCI/LPCle-7250, PCI-7251)
      - 0-1 V (cPCI-7252)
- Input resistance: 2.2 kΩ @ 0.33 W (PCI/LPCI/LPCle-7250, PCI-7251) 1.2 kΩ @ 0.5 W (cPCI-7252)
- Isolation voltage: 5000 V<sub>RMS</sub>
- Data transfers: programmed I/O

#### General Specifications

- I/O connector
  - PCI-7250/7251
    - 37-pin D-sub female
  - LPCI-7250/LPCle-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
LPCle-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") (LPCle-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/LPCle-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

#### ■ LPCle-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

### 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 (LPCle-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/LPCle-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/LPCle-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/LPCle-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