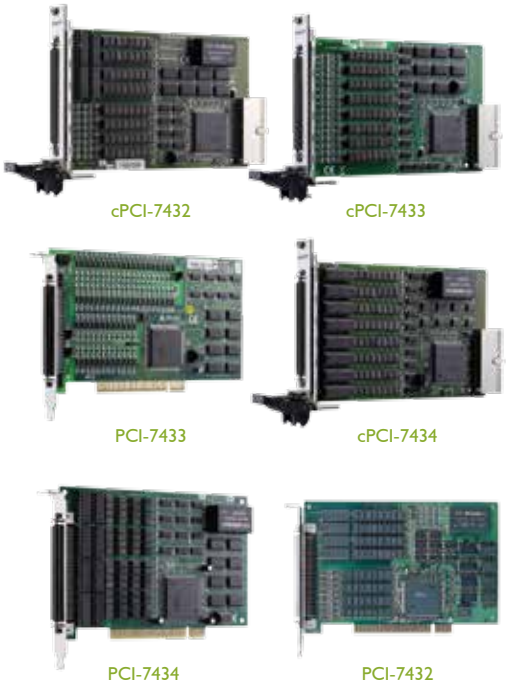
PCI/cPCI-7432/7433/7434

64-CH Isolated Digital I/O Cards

PCI CompactPCI



Features

- **Supports a 32-Bit 5 V PCI bus (PCI-7432/7433/7434)**
- **3U Eurocard form factor, CompactPCI compliant (PICMG 2.0 R2.1) (cPCI-7432/7433/7434)**
- **32-CH isolated digital inputs & 32-CH isolated digital outputs (PCI-7432/7432HIR, cPCI-7432)**
- **64-CH isolated digital inputs (PCI-7433/7433HIR, cPCI-7433)**
- **64-CH isolated digital outputs (PCI-7434, cPCI-7434/7434P)**
- **Isolation Voltage:**
  - **2500 V_{RMS}: PCI-7432/7433/7434**
  - **5000 V_{RMS}: cPCI-7432/7433/7434/7434P**
- **Sink current up to 500 mA on single isolated output**
- **Isolated input voltage up to 24 V (PCI-7432/7433, cPCI-7432/7433)**
- **Isolated input voltage up to 50 V (PCI-7432HIR/7433HIR)**
- **Two external interrupt sources (PCI-7432/7432HIR/7433/7433HIR, cPCI-7432/7432RP/7433)**

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
  - 32 (PCI-7432/7432HIR, cPCI-7432)
  - 64 (PCI-7433/7433HIR, cPCI-7433)
- Maximum input range (Non-polarity)
  - 24 V, non-polarity (PCI-7432/7433, cPCI-7432/7433)
- Digital logic levels: 0 V to 24 V, non-polarity
  - Input high voltage: 5 V to 24 V
  - Input low voltage: 0 V to 1.5 V
- Input resistance
  - 2.4 kΩ @ 0.5 W (PCI-7432, cPCI-7432, cPCI-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 V_{RMS}: PCI-7432/7432HIR/7433/7433HIR
  5000 V_{RMS}: cPCI-7432/7433
- Interrupt sources: digital input channel 0 & 1
- Data transfers: programmed I/O

Isolated Digital Output

- Number of channels
  - 32 (PCI-7432/7432HIR, cPCI-7432)
  - 64 (PCI-7434, cPCI-7434)
- Output type: open collector Darlington transistor
- Sink current (PCI-7432/7432HIR/7434, cPCI-7434)
  - 500 mA for single channel @ 100% duty cycle
  - 500 mA for all channels @ 20% duty cycle
- Source current (cPCI-7434P)
  - 500 mA for single channel @ 100% duty cycle
  - 260 mA for all channels @ 10% duty
- Power dissipation: Max. 2.25 W per chip (8 DO channels) (PCI-7432/7432HIR/7434, cPCI-7432/7434)
  Max. 1.47 W per chip (8 DO channels) (cPCI-7434P)
- Supply voltage: 5-35 V
- Isolation voltage: 2500 V_{RMS}
- Data transfers: programmed I/O

General Specifications

- I/O connector: 100-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	+5 V
PCI-7432/7432HIR, cPCI-7432	530 mA typical
PCI-7433/7433HIR, cPCI-7433	500 mA typical
PCI-7434, cPCI-7434P	560 mA typical

- Dimensions (not including connectors)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7432 & PCI-7432HIR)
  - 175 mm x 107 mm (6.82" x 4.17") (PCI-7433, PCI-7433HIR)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7434)
  - 156 mm x 106 mm (6.08" x 4.13") (PCI-7434P)
  - 160 mm x 100 mm (6.24" x 3.9") (cPCI-7432/7433/7434)

Terminal Boards & Cables

DIN-100S-01
Terminal Board with One 100-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)

ACL-102100-1
100-pin SCSI-II cable (mating with AMP-787082-9), 1 M

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

Note:
Legacy DIN-502S can be replaced by two DIN-50S-01 and ACL-10252-1 (100-Pin to two 50-Pin Cable, 1 M)

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-7434**
  64-CH Isolated DO Card
- **cPCI-7433**
  64-CH Isolated DI Card
- **cPCI-7434**
  64-CH Isolated DO Card
- **cPCI-7434P**
  64-CH Isolated DO Card with Source Current Transistor

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