

Isolated 64 Channels DI and/or DO Boards

PCI 7432/3/4

Registered
ISO 9001
Company

- 32-bit PCI Bus, Plug 'n' Play
- High density isolation DIO board
- Isolated 32 DI & 32 DO channels for PCI-7432
- Isolated 64 DI channels for PCI-7433
- Isolated 64 DO channels for PCI-7434
- 2500 Vrms opto coupler isolation voltage
- Max 500mA high driving sink current on isolated output channels
- Up to 24V voltage input for isolated input
- Two external interrupt sources and dual interrupt system for PCI-7432/33
- Rugged 100-pin SCSI-type connector
- Compact size suitable for any size of chassis
- The software driver is forward compatible to the Compact PCI version

The PCI-7432/33/34 series products are a family of high density digital I/O boards for the PCI bus. All the I/O ports are accessed by 32-bit I/O instructions, therefore increasing the data throughput rate.

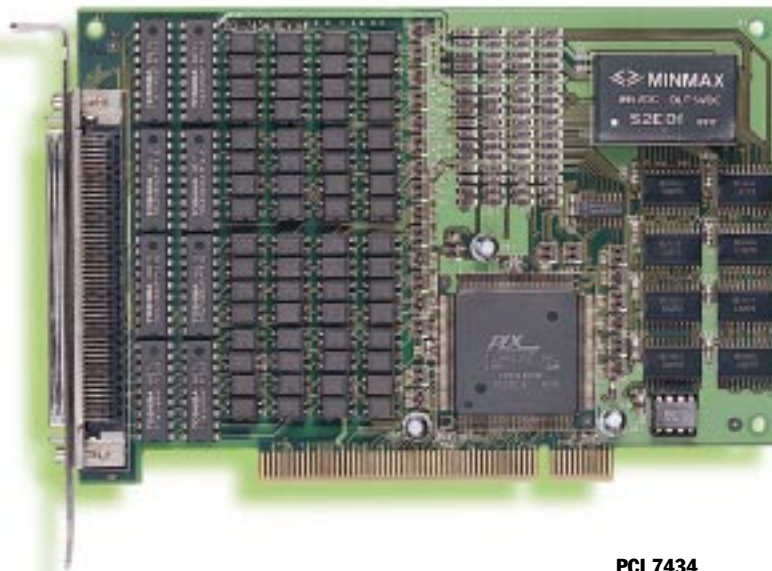


PCI7433

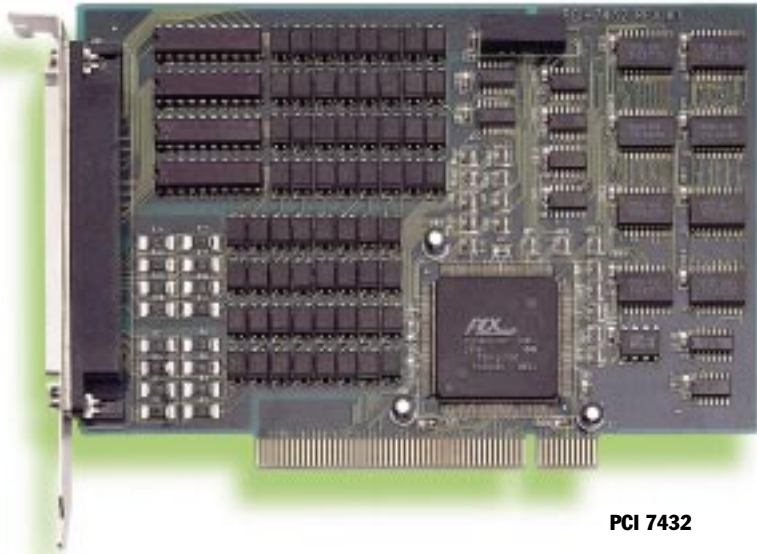
| DESCRIPTION | PRODUCT CODE |
|--|--------------|
| PCI 7432 isolated 32 Digital Inputs and 32 Digital Outputs | 909 936 85 |
| PCI 7433 isolated 64 Digital Inputs | 909 936 59 |
| PCI 7434 isolated 64 Digital Outputs | 909 936 58 |
| DIN 100S screw terminal panel DIN rail mountable | 909 934 44 |

The PCI-743x series cards contain 64 isolated DIO channels using the rugged 100-pin SCSI type connector. The opto-isolators are used to isolate the signals between host and the I/O device, the optocoupler 2500V rms isolation voltage protects the host computer. This high level of isolation make these boards ideal for harsh industrial applications

The isolated DO channels are driven by Darlington pair transistors with maximum 500 mA current sink capability. The DO channels are suitable for driving relays or high power lamps directly.



PCI 7434



PCI 7432

The maximum input voltage for the isolated DI channels is up to 24 volts. These DI channels are protected by on board 2.4K Ω resistors.

Development kit

A software development kit is included with these boards for DOS, Win95/98 & NT/2000, PCIS-LVIEW and PCIS-VEE.

The software support for Windows 95/98 & NT/2000 allows users to develop applications easily. The software development for PCI-743x series products are compatible with Compact PCI versions, see page 82.

The importance of isolation!

The isolation means the power and signal lines on the host computer have no connection with the external signals. The electronic digital signals are transmitted to and from the external devices via the opto-couplers. The isolation voltage of the opto-couplers on the PCI-743X series cards is 2500 Vrms. Therefore, even if an external device is damaged by electrical shock, the host computer will be fully protected.

SPECIFICATION

OPTICAL ISOLATED INPUT CHANNELS

| | |
|--------------------|--|
| Numbers of channel | 32 for PCI-7432 64 for PCI-7433 |
| Input voltage | 0-24VDC (or -24VDC) Logic H: 4~24V (-4~-24V) Logic L: 0~2.4V (0~-2.4V) |
| Input resistance | 2.4K Ω @ 0.5W |
| Isolated voltage | >2500 Vrms (opto coupler) |
| Throughput | 10KHz (0.1ms) |
| Interrupt sources | Ch#0 and Ch#1 of DI channels |

OPTICAL ISOLATED OUTPUT CHANNELS

| | |
|--------------------|---|
| Numbers of channel | 32 for PCI-7432 64 for PCI-7434 |
| Output type | Open collector Darlington NPN transistors |
| Device: | TD62083 or compatible |
| Sink current | Max. 500mA/ch for only one of the TD62083 transistor is ON 347mA/ch for all of the TD62083 transistors are ON @ 10% duty |
| Power dissipation | 1.47W per TD62083 device (8 DO channels) |
| Output voltage | Open collector Minimum 5V Maximum up to 35V |
| Throughput | 10KHz (0.1ms) |

GENERAL

| | |
|-------------------|---|
| Operating temp. | 0 ~ 60°C |
| Storage temp. | -20 ~ 80°C |
| Humidity | 5 ~ 95% non-condensing |
| Connector | 100 pins SCSI-type female connector |
| Power consumption | PCI-7432 530mA @5VDC (typ.) PCI-7433 500mA @5VDC (typ.) PCI-7434 560mA @5VDC (typ.) |
| Dimensions | 173 mm x 98 mm |
| Compliance | CE EMC |



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INVESTOR IN PEOPLE

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international quality standard. During the life of this catalogue we will comply with the latest version 2000