

PIO-D48 PCI BUS 48-BIT OPTO-22 COMPATIBLE DIO BOARD



Functional Description

The PIO-D48 provides 48 TTL digital I/O lines. The PIO-D48 consists of two 24-bit bi-direction ports. Each 24-bit port supports three 8-bit groups A, B, C. Each 8bit group can be configured to function as either inputs or latched outputs. All groups are configured as inputs upon power-up or reset. Outputs of the I/O buffers are pulled up through 10K resistors to +5VDC. Outputs can be changed to pull down by jumper selection on the board. This pull-up/pulldown mechanism assures that there are no erroneous outputs at power-up until the board is initialized by application software.

The PIO-D48 has one D-Sub connector and one 50-pin flat-cable header. The header can be connected to a 50-pin flat-cable. The flat-cable can be connected to ADP-37/PCI or ADP-50/PCI adapters. The adapter can be fixed on the chassis. It can be installed in a 5 V PCI bus and can support truly "Plug & Play".

Features

- PCI Bus
- Up to 48 channels of digital I/O
- All I/O lines buffered on the board
- Eight-bit groups independently selectable for I/O on each 24-bit
- SMD, short card, power saving
- Connects directly to DB-24PD, DB-24RD, DB-24PRD, DB-24POR, DB-24SSR, DB-24C or any OPTO-22 compatible daughter boards

- One 32-bit programmable internal pacer timer
- One 16-bit event counter
- Interrupt source : 4 channels
- Pull-up or pull-down resistors on I/O lines
- Emulate two industrial-standard 8255 mode 0
- high output driving capability
- One D-Sub connector, one 50pin flat-cable heade
- Automatically detected by Windows 95/98/NT
- No base address or IRQ switches to set

Applications

- Factory automation
- Laborátory automation
- Communication switching
- Industrial automation

Specifications

- All inputs are TTL compatible Logic high voltage: 2.4V (Min.) Logic low voltage: 0.8V (Max.)
- All outputs are TL compatible Sink current: 64 mA (Max.) Source current: 32 mA (Max.)
- Power consumption: +5V / 500mA

Environmental

- Operating Temperature: 0 to 60°C
- Storage Temp.: -20°C to 80°C
- Humidity: 0 to 90 % non-condensing
- Dimension: 156 mm x 105 mm

Software

- PCI-DIO Development Toolkit for DOS
- PCI-DIO Development Toolkit for Win95
- PCI-DIO Development Toolkit for WinNT

Order Description

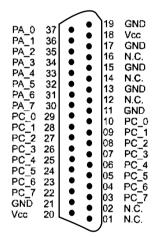
- PIO-D48: PCI bus 48-bit opto-22 DIO board
- PIO-D48/S: PIO-D48 with ADP-37/ PCI adapter

Options

- ĎB-24PD: 24 channel isolated D/I board
- DB-24RD: 24 channel relay board
- DB-24PRD: 24 channel power relay board
- DB-16P8R:16 channel isolated D/I and 8 channel relay output board

- DB-24POR: 24 channel PhotoMos relay output board
- DB-24SSR: 24 channel Solid State relay output board
- DB-24C: 24-channel open-collector output board
- ADP-37/ PCI adapter: 50-pin opto-22 ports to DB-37 for PCI Bus I/O board
- ADP-50/PCI: Extender, extends 50-pin flat-cable connectors to PC slot windows, for PCI Bus I/O board
- PCI-DIO LabVIEW Development Toolkit for Win95
- PCI-DIO LabVIEW Development Toolkit for WinNT

Pin Assignment CN1



CN₂ PC 7 PC 6 **GND** GND PC 5 GND GND 10 GND 12 GND 14 GND 15 16 GND 18 GND 20 GND 22 GND PB 6 19 24 GND 26 GND 28 GND 30 GND 23 PB 4 PB 3 25 PB 2 27 29 PB 1 PB 0 31 32 GND PA 7 33 35 37 34 GND PA 6 36 GND PA 5 38 GND PA 4 39 40 GND PA3 41 • 42 GND PA 2 43 • • 44 GND PA 1 45 46 GND PA 0 47 48 GND 49