



PIO-D96

PCI BUS 96-BIT OPTO-22 DIO BOARD



PCI-Bus

Functional Description

The PIO-D96 provides 96 TTL digital I/O lines. The PIO-D96 consists of four 24-bit bi-direction ports. Each 24-bit port supports three 8-bit groups A, B and C. Each 8-bit group can be configured to function as either inputs or latched outputs. All groups are configured as inputs upon power-up or reset. The PIO-D96 has one D-Sub connector and three 50-pin flat-cable headers. Each header can connect to a 50 pin flat cable. The flat cable can be connected to ADP-37/PCI or ADP-50/PCI adapter. 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, SMD, short card
- Connects directly to DB-24PD, DB-24RD, DB-24PRD, DB-16P8R, DB-24POR, DB-24SSR, DB-24C or any OPTO-22 compatible daughter board
- 96 digital I/O lines
- Interrupt source: 4 channels
- High output driving capability
- One D-Sub connector, three 50-pin flat-cable header

Applications

- Factory automation
- Laboratory 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 TTL compatible
Sink current: 64 mA (Max.)
Source current: 32 mA (Max.)
- Power consumption: +5V / 600mA

Environmental

- Operating Temperature: 0 to 60 °C
- Storage Temp.: -20 °C to 80 °C
- Humidity: 0 to 90 % non-condensing
- Dimension: 180 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-D96: PCI bus 96-bit opto-22 DIO board

Options

- DB-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
- DN-37: I/O connector block with DIN-Rail mounting and two 37-pin D-sub connectors
- 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

PA_0	37	●	19	GND
PA_1	36	●	18	Vcc
PA_2	35	●	17	GND
PA_3	34	●	16	N.C.
PA_4	33	●	15	GND
PA_5	32	●	14	N.C.
PA_6	31	●	13	GND
PA_7	30	●	12	N.C.
PC_0	29	●	11	GND
PC_1	28	●	10	PC_0
PC_2	27	●	09	PC_1
PC_3	26	●	08	PC_2
PC_4	25	●	07	PC_3
PC_5	24	●	06	PC_4
PC_6	23	●	05	PC_5
PC_7	22	●	04	PC_6
GND	21	●	03	PC_7
Vcc	20	●	02	N.C.
		●	01	N.C.

CN2, CN3 & CN4

PC 7	1	●	2	GND
PC 6	3	●	4	GND
PC 5	5	●	6	GND
PC 4	7	●	8	GND
PC 3	9	●	10	GND
PC 2	11	●	12	GND
PC 1	13	●	14	GND
PC 0	15	●	16	GND
PB 7	17	●	18	GND
PB 6	19	●	20	GND
PB 5	21	●	22	GND
PB 4	23	●	24	GND
PB 3	25	●	26	GND
PB 2	27	●	28	GND
PB 1	29	●	30	GND
PB 0	31	●	32	GND
PA 7	33	●	34	GND
PA 6	35	●	36	GND
PA 5	37	●	38	GND
PA 4	39	●	40	GND
PA 3	41	●	42	GND
PA 2	43	●	44	GND
PA 1	45	●	46	GND
PA 0	47	●	48	GND
Vcc	49	●	50	GND