



PIO-D56

PCI BUS 56-BIT DIO BOARD



PCI-Bus

Functional Description

The PIO-D56 provides 56 TTL digital I/O lines. The PIO-D56 consists of one 24-bit port (CON3), one 16-bit input port (CON2) and one 16-bit output port (CON1). The 24-bit port supports three 8-bit groups A, B, 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 user can use the DB-16P to connect the input ports (CON2) for isolation purpose, or use DB-16R to interface to the output ports (CON1) for relay control. The PIO-D56 has one D-Sub connector and two 20-pin flat-cable headers. The header can be connected to 20-pin flat-cable. The flat-cable can be connected to ADP-20/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

- Double side 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 board
- 56 digital I/O lines
- Interrupt source: 4 channels
- High output driving capability
- one D-Sub connector, two 20-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
- **OPTO-22 output (CON3)**
Sink current: 64mA (Max.)
Source current: 32mA (max.)
- **16-channel output (CON1)**
Sink current: 8mA (Max.)
Source current: 0.4mA (max.)
- Power consumption: +5V / 530m A

Environmental

- Operating Temperature: 0 to 60 °C
- Storage Temp.: -20 °C to 80 °C
- Humidity: 0 to 90 %
non-condensing
- Dimension: 143 mm x 105 mm

Order Description

- PIO-D56: PCI bus 56-bit 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
- DB-16P: 16 channel opto-isolated input board
- DB-16R: 16 channel relay terminal board
- ADP-20/PCI: 20-pin extender
- DN-20: I/O connector block with DIN-Rail mounting and two 20-pin header
- DB-16R: 16 channel relay

- DN-37: I/O connector block with DIN-Rail mounting and two 37-pin D-sub connectors:
- PIO-DIO Development Toolkit for Win95
- PIO-DIO Development Toolkit for WinNT

Pin Assignment CON3

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.

Pin Assignment CON2

DI 0	1	●	2	DI 1
DI 2	3	●	4	DI 3
DI 4	5	●	6	DI 5
DI 6	7	●	8	DI 7
DI 8	9	●	10	DI 9
DI10	11	●	12	DI11
DI12	13	●	14	DI13
DI14	15	●	16	DI15
D.GND	17	●	18	D.GND
+5V	19	●	20	+12V

Pin Assignment CON1

DO 0	1	●	2	DO 1
DO 2	3	●	4	DO 3
DO 4	5	●	6	DO 5
DO 6	7	●	8	DO 7
DO 8	9	●	10	DO 9
DO10	11	●	12	DO11
DO12	13	●	14	DO13
DO14	15	●	16	DO15
D.GND	17	●	18	D.GND
+5V	19	●	20	+12V