

I/O Cards

PIO-D96U

Universal PCI, 96-ch OPTO-22 Compatible
DIO Board



Features ▶▶▶▶

- Universal PCI (3.3 V/5 V) interface
- Emulate 4 industrial-standard 8255 PPI port (mode 0)
- D/O with higher driving capability
- 96-ch 5 V TTL DIO
- Bi-direction programmable I/O ports under software control
- Card ID function (SMD Switch)
- One 32-bit programmable internal timer
- DIO response time is about 1 us (1 MHz max.)
- 4 Interrupt sources

Introduction

The PIO-D96U card is the new generation product that ICP DAS provides to meet RoHS compliance requirement. The new PIO-D96U card is designed as a drop-in replacement for the PIO-D96, and users can replace the PIO-D96 by the PIO-D96U directly without software/driver modification.

The PIO-D96U universal PCI card supports 3.3 V/5 V PCI bus. These cards provide 96 TTL digital I/O lines that consist of twelve 8-bit bi-direction ports. Every three ports on a connector are grouped and named as port A (PA), port B (PB) and port C (PC) respectively. All ports are configured as inputs upon power-up or reset.

The PIO-D96U also adds a Card ID switch on-board. Users can set Card ID and then recognize the board by the ID via software when using two or more PIO-D96U cards in one computer.

Software

- DOS Lib and TC/BC/MSC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET sample programs with source codes
- DLL and OCX SDK for 32-bit and 64-bit Windows XP/2003/Vista/2008/7
- Supports LabVIEW and Linux

Hardware Specifications

Digital I/O	
I/O Channels	96-ch, 5 V TTL
Input Logic Low	0.8 V max.
Input Logic High	2.4 V min.
Output Source Current	32 mA max.
Output Sink Current	64 mA max.
Programmable Interrupts	4
General	
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play
Connectors	Female DB37 x1, 50-pin box header x3
Power Consumption	600 mA @ +5 V
Operating Temperature	0 °C ~ +60 °C
Storage Temperature	-20 °C ~ +70 °C
Humidity	5 ~ 85% RH, non-condensing

Pin Assignments

CON1			CN1/CN2/CN3		
N.C.	1	20	PC_7	1	2
N.C.	2	21	PC_6	3	4
N.C.	3	22	PC_5	5	6
PB_7	4	23	PC_4	7	8
PB_6	5	24	PC_3	9	10
PB_5	6	25	PC_2	11	12
PB_4	7	26	PC_1	13	14
PB_3	8	27	PC_0	15	16
PB_2	9	28	PB_7	17	18
PB_1	10	29	PB_6	19	20
PB_0	11	30	PB_5	21	22
GND	12	31	PB_4	23	24
N.C.	13	32	PB_3	25	26
GND	14	33	PB_2	27	28
N.C.	15	34	PB_1	29	30
GND	16	35	PB_0	31	32
N.C.	17	36	PA_7	33	34
GND	18	37	PA_6	35	36
+5V	19		PA_5	37	38
GND			PA_4	39	40
			PA_3	41	42
			PA_2	43	44
			PA_1	45	46
			PA_0	47	48
			+5V	49	50

Ordering Information

PIO-D96U CR	Universal PCI, 96-ch TTL DIO Board (RoHS)
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