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P104-DIO-96 Series PC/104-Plus Digital Communication

FEATURES Specifications

- PC/104 Plus (PCI-104 Optional)
- 96 Channel TTL-DTL high speed digital I/O
- Software selectable in vs. out as 8 bit and 4 bit
- Emulates 4 industry standard 8255 PPIs (mode 0)
- Full 32-bit PCI interface design
- Buffered circuits for higher driving capacity
- Low CPU overhead
- Known power-up states
- Output port status read back
- Standard 50-pin IDC connectors (x4)
- 0 to +70° C and -40 to +85° C versions available



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Analog Input Analog Output

Watchdogs Bus Expansion Ethernet

Wireless Distributed I/O

PCI Bus Products

PC/104 Bus

ETX

Systems

Miscellaneous

Part #

P104-DIO-96

Accessories

Digital Input/Output Serial Communication

> P104-DIO-96 **ACCESSORIES**

104-HDW-KIT(X) 104-SPC-KIT

C104-50F-D25M

C104-50F-D9M(x)

CAB50-6

CAB50F-6

CAB50F-XX

STA-112

STA-50 STB-50

T-BOX

MP104-DIN ACCES Home

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FUNCTIONAL DESCRIPTION

Each I/O line of this card is buffered and capable of sourcing 32mA, or sinking 64mA. The board simulates Programmable Peripheral Interface chips (PPI) to provide a computer interface to digital I/O lines. Each PPI supports two 8-bit ports (A, B) and two 4-bit ports (Chi, Clow). Each port can be configured to function as either input or output latches. The I/O line buffers (types 74ABT240 and 74ABT245) are configured automatically by hardware logic for input or output according to the PPI Control Register direction software assignment.

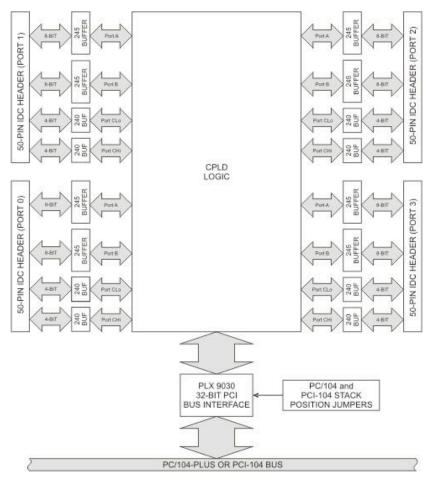
Outputs of the I/O buffers are pulled up through 10KO resistors to +5VDC.

I/O wiring connections are via 50-pin headers on the board. This provides compatibility with OPTO-22, Gordos, Potter & Brumfield, Western Reserve Controls, etc. module mounting racks. Every second conductor of the flat cables is grounded to minimize crosstalk between signals. If needed for external circuits, +5VDC power is available on each I/O connector at pin 49. If you use this power, we recommend that you include a 1A fast blow fuse in your circuits in order to avoid possible damage to the host computer.

The card occupies 32 addresses within the PCI I/O space. The base address is assigned by the system. Refer to the Option Selection Section of this manual for a detailed description.

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Specifications



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Specification

Data Transfer Rate, I/O Mapped

• I/O connector to/from PCI bus: 7.37M bytes per second

Digital Inputs (TTL Compatible)

Logic High: 2.0 to 5.0 VDC
Logic Low: -0.5 to +0.8 VDC
Input Load (High): 10μA
Input Load (Low): -10μA

Digital Outputs

• Logic High: 2.5 VDC min., source 32 mA

• Logic Low: 0.5 VDC max., sink 64 mA

 Power Output: +5 VDC from computer bus (onboard resettable 0.5A fuse) on each digital group's I/O connector

Power Required: 290 mA typical at 5V (all I/O pins disconnected, all I/O ports set as inputs)

Environmental

Operating Temperature: -20°C to +70°C
Humidity: 0 to 90% RH, non-condensing
Storage Temperature: -50°C to +120°C



not done on individual boards.

Part Number	Price(USD)
P104-DIO-96	395.00

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