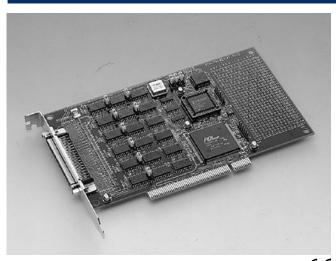
PCI-1751 PCI-1*75*1U

48-bit Digital I/O Card and Counter Card

48-bit Universal Digital I/O and Counter Card



Features

- 48 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Interrupt handling
- Timer/Counter interrupt capability
- Supports both dry and wet contact
- Keeps the I/O port setting and DO state after system reset
- Universal PCI & BoardID switch (PCI-1751U only)

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Introduction

PCI-1751 is a 48-bit digital I/O card for the PCI bus. Its 48 bits are divided into six 8-bit I/O ports and users can configure each port as input or output via software. The PCI-1751 also provides one event counter and two 16-bit timers, which can be cascaded to become a 32-bit timer.

Fulfilling the True Requirements of Industrial Applications

With two practical functions, the PCI-1751 fulfills the true requirements of industrial applications. When the system is hot reset, (power is not shut off), the PCI-1751 can either retain the last I/O port setting and output value, or reset to its default configuration, depending on jumper settings. This function protects the system from wrong operations during unexpected system resets. Additionally, the PCI-1751 supports both dry and wet contacts so that it can easily interface with other devices.

Interrupt Handling Capability

Two lines in each I/O port (C0 and C4) and two of the three counter outputs (Timer 1 and Counter 2) are connected to the interrupt circuitry. Two interrupt request signals can be generated at the same time and the software can service the two request signals by ISR. Moreover, a pin in the connector can output a digital signal simultaneously with the card generating an interrupt, and users can utilize this function to trigger external devices with the interrupt.

Specifications

 I/O Channels 48 digital I/O lines Programming Mode 8255 PPI mode 0

Digital Output

 Logic Level 0 0.4 V max. @ 24 mA (sink) Logic Level 1 2.4 V min. @ 15 mA (source)

Digital Input

 Logic Level 0 $0 \sim 0.8 \text{ V}$ Logic Level 1 2 ~ 5.25 V

Programmable timer/counter

 Frequency Range 0 ~ 10 MHz

Counters Two 16-bit counters or one 32-bit counter

One 16-bit event counter

General

5 V @ 850 mA (typical) Power Consumption 5 V @ 1.0 A (max.) • Operating Temperature $0 \sim 70^{\circ} \text{ C} (32 \sim 158^{\circ} \text{ F})$

Storage Temperature -20 ~ 80° C (-4 ~ 176° F) 5 ~ 95% RH non-condensing (refer to IEC 68-2-3) **Operating Humidity** 68-pin SCSI-II female connector (Centronics type) Connectors

Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")

Applications

- Industrial AC/DC I/O monitoring and controlling
- Relay and switch monitoring and controlling
- Parallel data transfer
- TTL, DTL and CMOS logic signal sensing
- Indicator LED driving

Ordering Information

PCI-1751 48-bit digital I/O card and Counter Card, user's manual

and driver CD-ROM. (cable not included) PCI-1751U 48-bit universal digital I/O card and Counter Card,

user's manual and driver CD-ROM. (cable not included)

PCL-10168 68-pin SCSI cable, 1 and 2m

ADAM-3968 68-pin SCSI cable wiring terminal for DIN-rail

mounting

68-pin SCSI-II to three 20-pin Wiring Terminal Module ADAM-3968/20

for DIN-Rail Mounting

 ADAM-3968/50 68-pin SCSI to 2 x 50-pin box headers converter

module

PCLD-8751 48-ch Isolated DI Board PCLD-8761 24-ch Replay and 24-IDI Board

Pin Assignments

