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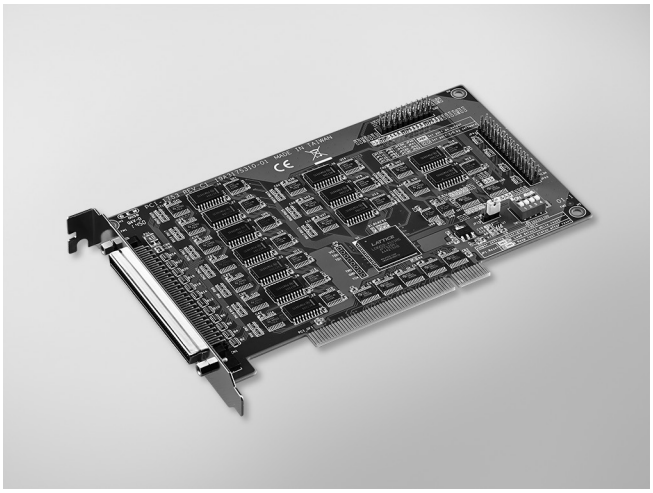
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# PCI-1753

## 96-ch Digital I/O PCI Card



## Features

- Up to 96 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than the 8255
- Multiple-source interrupt handling capability
- Interrupt output pin for simultaneously triggering external devices with the interrupt
- Output status read-back
- “Pattern match” and “Change of state” interrupt functions for critical I/O monitoring
- Keeps the output settings and values after system hot reset
- Supports both dry and wet contact
- High-density 100-pin SCSI connector

## Introduction

PCI-1753 is a 96-bit digital I/O card for the PCI bus. The card emulates mode 0 of the 8255 PPI chip, but the buffered circuits offer a higher driving capability than the 8255. The 96 I/O lines are divided into twelve 8-bit I/O ports: A0, B0, C0, A1, B1, C1, A2, B2, C2, A3, B3 and C3. You can configure each port as input or output via software.

## Specifications

### Digital Input/Output

- **Channels** 96 digital I/O lines for PCI-1753
- **Programming Mode** 8255 PPI mode 0
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.<br>Logic 1: 2.0 V min.
- **Output Voltage** Logic level 0:0.8 V max. @+24mA (Sink)<br>Logic level 1:2.0 V min. @-15mA (Source)
- **Interrupt Inputs** 4 (PC00,PC10,PC20,PC30)

### General

- **Bus Type** PCI V2.2
- **I/O Connector** 1 x 100-pin SCSI female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: 5 V @ 400 mA<br>Max.: 5 V @ 2.7 A
- **Operating Temperature** 0 ~ 60°C (32 ~ 140°F)
- **Storage Temperature** -20 ~ 70°C (-4 ~ 158°F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing

## Ordering Information

- **PCI-1753** 96-ch Digital I/O PCI Card
- **PCI-1753E** Extension Board for PCI-1753

### Accessories

- **ADAM-3968** 68-pin DIN-rail SCSI Wiring Board
- **ADAM-3968/20** 68-pin SCSI to 3 20-pin Box Header Board
- **ADAM-3968/50** 68-pin SCSI to 2 50-pin Box Header Board
- **PCLD-8751** 48-ch Isolated Digital Input Board
- **PCLD-8761** 24-ch Replay/ Isolated Digital Input Board
- **PCLD-8762** 48-ch Relay Board
- **PCL-10268-2E** 100-pin to Two 68-pin SCSI Cables, 1 m and 2 m

## Pin Assignments

| | | | |
|---|---|---|---|
| PA00 | 1 | 51 | PA20 |
| PA01 | 2 | 52 | PA21 |
| PA02 | 3 | 53 | PA22 |
| PA03 | 4 | 54 | PA23 |
| PA04 | 5 | 55 | PA24 |
| PA05 | 6 | 56 | PA25 |
| PA06 | 7 | 57 | PA26 |
| PA07 | 8 | 58 | PA27 |
| PB00 | 9 | 59 | PB20 |
| PB01 | 10 | 60 | PB21 |
| PB02 | 11 | 61 | PB22 |
| PB03 | 12 | 62 | PB23 |
| PB04 | 13 | 63 | PB24 |
| PB05 | 14 | 64 | PB25 |
| PB06 | 15 | 65 | PB26 |
| PB07 | 16 | 66 | PB27 |
| PC00 | 17 | 67 | PC20 |
| PC01 | 18 | 68 | PC21 |
| PC02 | 19 | 69 | PC22 |
| PC03 | 20 | 70 | PC23 |
| PC04 | 21 | 71 | PC24 |
| PC05 | 22 | 72 | PC25 |
| PC06 | 23 | 73 | PC26 |
| PC07 | 24 | 74 | PC27 |
| GND | 25 | 75 | GND |
| PA10 | 26 | 76 | PA30 |
| PA 11 | 27 | 77 | PA31 |
| PA12 | 28 | 78 | PA32 |
| PA13 | 29 | 79 | PA33 |
| PA14 | 30 | 80 | PA34 |
| PA15 | 31 | 81 | PA35 |
| PA16 | 32 | 82 | PA36 |
| PA17 | 33 | 83 | PA37 |
| PB10 | 34 | 84 | PB30 |
| PB1 1 | 35 | 85 | PB31 |
| PB12 | 36 | 86 | PB32 |
| PB13 | 37 | 87 | PB33 |
| PB14 | 38 | 88 | PB34 |
| PB15 | 39 | 89 | PB35 |
| PB16 | 40 | 90 | PB36 |
| PB17 | 41 | 91 | PB37 |
| PC10 | 42 | 92 | PC30 |
| PC1 1 | 43 | 93 | PC31 |
| PC12 | 44 | 94 | PC32 |
| PC13 | 45 | 95 | PC33 |
| PC14 | 46 | 96 | PC34 |
| PC15 | 47 | 97 | PC35 |
| PC16 | 48 | 98 | PC36 |
| PC17 | 49 | 99 | PC37 |
| VCC | 50 | 100 | VCC |

PA00 ~PA07: I/O pins of Port A0
PA10 ~PA17: I/O pins of Port A1
PA20 ~PA27: I/O pins of Port A2
PA30 ~PA37: I/O pins of Port A3
PB00 ~PB07: I/O pins of Port B0
PB10 ~PB17: I/O pins of Port B1
PB20 ~PB27: I/O pins of Port B2
PB30 ~PB37: I/O pins of Port B3
PC00 ~PC07: I/O pins of Port C0
PC10 ~PC17: I/O pins of Port C1
PC20 ~PC27: I/O pins of Port C2
PC30 ~PC37: I/O pins of Port C3
GND: Ground
VCC: +5V voltage output


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