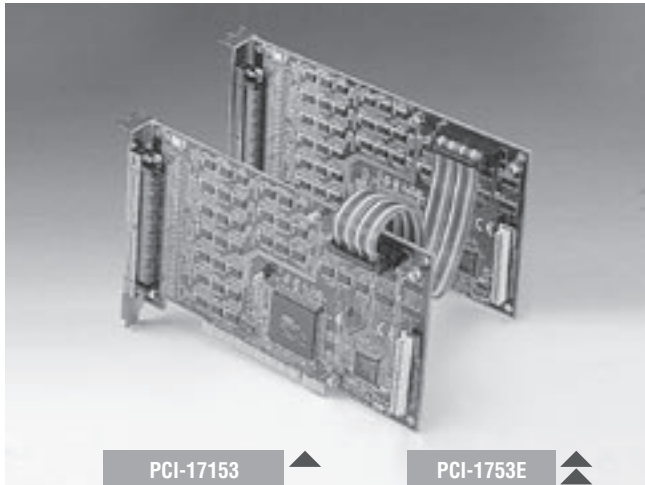


# PCI-1753 PCI-1753E

## 96-ch Digital I/O Card

## 96-ch Digital I/O Extension Card for PCI-1753



### Features

- Up to 192 (96 + 96) TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- Buffered circuits for higher driving capacity than 8255
- Multiple-source interrupt handling
- 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 I/O setting and digital output values when hot system reset
- Supports dry contact and wet contact
- High-density 100-pin SCSI connector

### Introduction

PCI-1753 is a 96-bit digital I/O card for the PCI bus, which can be extended to 192 digital I/O channels by connecting its extension board - PCI-1753E. 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

- I/O Channels**
  - 96 digital I/O lines for PCI-1753
  - 192 digital I/O lines if extending with PCI-1753E
- Programming Mode** 8255 PPI mode 0
- Compatibility** 5 V/TTL
- Input Voltage**
  - Logic 0: 0.8 V max.
  - Logic 1: 2.0 V min.
- Output Voltage**
  - Logic 0: 0.44 V max.
  - Logic 1: 3.76 V min.
- Output Capability**
  - Sink: 0.44 V max. @ 24 mA
  - Source: 3.76 V min. @ 24 mA

#### General

- Bus Type** PCI V2.2
- I/O Connector** 1 x 100-pin SCSI female connector (Centronics™)
- Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- Power Consumption**
  - Typical: +5 V @ 400 mA
  - Max: +5 V @ 2.7 A
- Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1, 2)
- Storing Temperature** -20 ~ 70° C (-4 ~ 158° F) (refer to IEC 68-2-3)
- Storing Humidity** 5 ~ 95% RH, non-condensing

### Ordering Information

- PCI-1753** 96 ch. Digital I/O Card, user's manual and driver CD-ROM. (cable not included)
- PCI-1753E** Extension Board for PCI-1753
- PCL-10268** 100-pin to 2x68-pin SCSI cable, 1 and 2m
- ADAM-3968** SCSI-68 wiring terminal, DIN-rail mount
- ADAM-3968/20** 68-pin SCSI-II to Three 20-pin Wiring Terminal Module for DIN-Rail Mounting
- ADAM-3968/50** 68-pin SCSI wiring terminal for DIN-rail mounting
- PCLD-8751** 48-ch Isolated DI Board
- PCLD-8761** 24-ch Relay and 24-IDI Board

### 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 |
| PA11 | 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 |
| PB11 | 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 |
| PC11 | 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