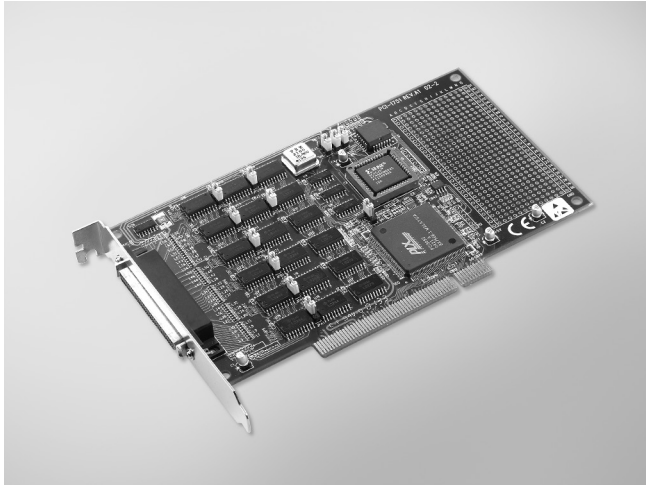


# PCI-1751

## 48-ch Digital I/O and 3-ch Counter PCI Card



### Features

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

### 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. PCI-1751 also provides one event counter and two 16-bit timers, which can be cascaded to become a 32-bit timer.

### Specifications

#### Digital Input

- **Channels** 48 (shared with output)
- **Compatibility** 5 V/TTL
- **Input Voltage** Logic 0: 0.8 V max.  
Logic 1: 2 V min.
- **Interrupt Capable Ch.** 4

#### Digital Output

- **Channels** 48 (shared with input)
- **Compatibility** 5 V/TTL
- **Output Voltage** Logic 0: 0.4 V max.  
Logic 1: 2.4 V min.
- **Output Capability** Sink: 0.4 V @ 24 mA  
Source: 2.4 V @ 15 mA

#### Counter/Timer

- **Channels** 3
- **Resolution** 2 x 16-bit counters, or 1 x 32-bit counter (jumper selectable)  
1 x 16-bit event counter
- **Compatibility** 5 V/TTL
- **Max. Input Frequency** 10 MHz
- **Reference Clock** Internal: 10 MHz  
External Clock Frequency: 10 MHz  
External Voltage Range: 5 V/TTL

#### General

- **Bus Type** Universal PCI V2.2
- **I/O Connectors** 1 x 68-pin SCSI female connector
- **Dimensions (L x H)** 175 x 100 mm (6.9" x 3.9")
- **Power Consumption** Typical: 5 V @ 850 mA  
Max.: 5 V @ 1.0 A
- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Storage Temperature** -20 ~ 80° C (-4 ~ 176° F)
- **Storage Humidity** 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

### Ordering Information

- **PCI-1751** 48-ch Digital I/O and Counter PCI Card

#### Accessories

- **PCL-10168-1** 68-pin SCSI Shielded Cable, 1 m
- **PCL-10168-2** 68-pin SCSI Shielded Cable, 2 m
- **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

### Pin Assignments

|          |    |    |          |
|----------|----|----|----------|
| PA00     | 1  | 35 | PA10     |
| PA01     | 2  | 36 | PA11     |
| PA02     | 3  | 37 | PA12     |
| PA03     | 4  | 38 | PA13     |
| PA04     | 5  | 39 | PA14     |
| PA05     | 6  | 40 | PA15     |
| PA06     | 7  | 41 | PA16     |
| PA07     | 8  | 42 | PA17     |
| GND      | 9  | 43 | GND      |
| PB00     | 10 | 44 | PB10     |
| PB01     | 11 | 45 | PB11     |
| PB02     | 12 | 46 | PB12     |
| PB03     | 13 | 47 | PB13     |
| PB04     | 14 | 48 | PB14     |
| PB05     | 15 | 49 | PB15     |
| PB06     | 16 | 50 | PB16     |
| PB07     | 17 | 51 | PB17     |
| GND      | 18 | 52 | GND      |
| PC00     | 19 | 53 | PC10     |
| PC01     | 20 | 54 | PC11     |
| PC02     | 21 | 55 | PC12     |
| PC03     | 22 | 56 | PC13     |
| PC04     | 23 | 57 | PC14     |
| PC05     | 24 | 58 | PC15     |
| PC06     | 25 | 59 | PC16     |
| PC07     | 26 | 60 | PC17     |
| GND      | 27 | 61 | GND      |
| CNT0_OUT | 28 | 62 | CNT0_CLK |
| GND      | 29 | 63 | CNT0_G   |
| CNT1_OUT | 30 | 64 | CNT1_CLK |
| GND      | 31 | 65 | CNT1_G   |
| CNT2_OUT | 32 | 66 | CNT2_CLK |
| INT_OUT  | 33 | 67 | CNT2_G   |
| VCC      | 34 | 68 | VCC      |