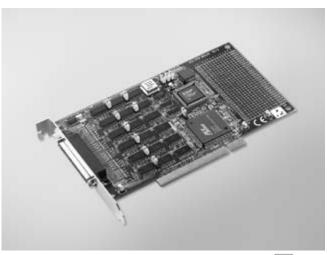
# **PCI-1751**

## 48-ch Digital I/O and 2-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



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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. 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**

48 (shared with output) Channels

Compatibility 5 V/TTL

Input Voltage Logic 0: 0.8 V max.

Logic 1: 2 V min.

• Interrupt Capable Ch.

#### **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

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  $0 \sim 70^{\circ} \text{ C} (32 \sim 158^{\circ} \text{ F})$  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 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**

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		-	
PA00	1	35	PA10
PA01	2	36	PA11
PA02	3	37	PA12
PA03	4	38	PA13
PA04	5	39 40	PA14
PA05	7	41	PA15
PA06 PA07	8	42	PA16
GND	9	43	PA17
PBOO	10	44	GND PB10
PB00 PB01	11	45	PB10 PB11
PB01 PB02	12	46	PB11 PB12
PB02 PB03	13	47	PB12 PB13
PB04	14	48	PB13
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	CNTO_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
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