PCI-1751

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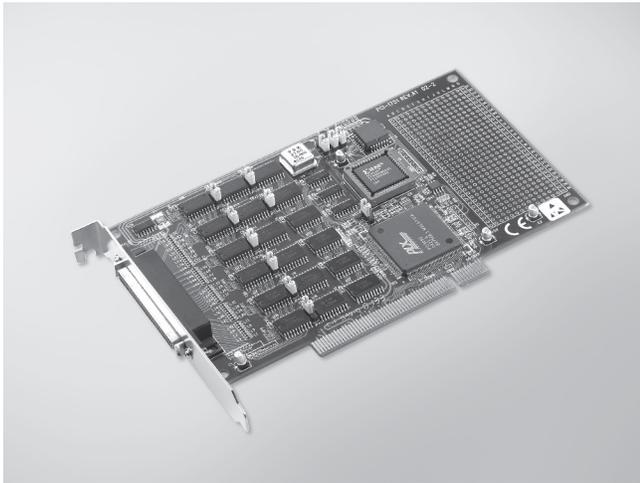
Features

- 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

FCC CE RoHS COMPLIANT 2002/95/EC

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

Ordering Information

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

Accessories

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

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