Платы дискретного ввода/вывода серии PCI-17 XX

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

По вопросам продаж и поддержки обращайтесь:

Архангельск (8182)63-90-72 Астана +7(7172)727-132 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58

Казань (843)206-01-48

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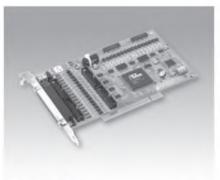
сайт: www.advantech.nt-rt.ru || почта: ahd@nt-rt.ru

PCI-1730 PCI-1733 PCI-1734

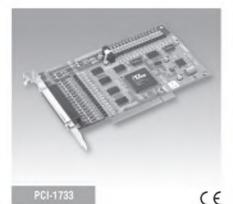
32-ch Isolated Digital I/O Card (ISA Compatible)

32-ch Isolated Digital Input Card (ISA Compatible)

32-ch Isolated Digital Output Card (ISA Compatible)









PCI-1730

Features

- 32 isolated DIO ch. (16 inputs and 16 outputs)
- 32 TTL-level DIO ch. (16 inputs and 16 outputs)
- · High output driving capacity
- Interrupt capability
- Two 20-pin connectors for isolated digital I/O channels and two for TTL digital I/O channels
- D-type connector for isolated input and output ch.

Features

- 32 isolated, bidirectional digital input channels
- High-voltage isolation (2,500 V_{DC})
- Interrupt capacity
- D-type connectors for isolated input channels
- Reverse voltage protection for isolated input channels (up to 24 V_{DC})

Features

- 32 isolated digital output channels
- · High output driving capacity
- High-voltage isolation on output channels (2,500
- High sink current on isolated output channels (200 mA/channel)
- Integral suppression diodes for inductive loads
- Wide output range (5 ~ 40 V_{DC})
- D-type connectors for isolated output channels

Specifications

Isolated Digital Input

Isolated Digital Output

Output Channels

Optical Isolation

Supply Voltage

I/O Connector Type

Dimensions (L x H)

Storage Temperature

Relative Humidity

Throughput

Throughput

Sink Current

General

Input Channels 16 (16-ch/group) Interrupt Inputs 4 (IDIO, IDI1, DIO, DI1) Interrupt Levels 2 - 7

10 kHz max.

2,500 V_{pc}

5 - 40 V_{no}

10 kHz

16 (16-ch/group)

200 mA max./channel

Input Voltage 5 ~ 30 V_{pr} 2.7 kΩ @ 1 W Input Resistance Optical Isolation 2,500 V

Specifications

Isolated Digital Input

Input Channels 32 (16-ch/group) Interrupt Inputs 4 (IDIO, IDI1, IDI16, IDI17) Interrupt Levels 2, 3, 5, 7, 10, 11, 12, 15

Input Voltage 5 ~ 30 V Input Resistance 2.7 kΩ@1W **Optical Isolation** 2,500 V_{nc} Throughput 10 kHz max.

General

 I/O Connector Type 37-pin D-type female Dimensions (L x H) 185 x 100 mm (7.3" x 3.9")

 Power Consumption Typical: +5 V @ 320 mA Max: +5 V @ 500 mA 37-pin D-type female

• Operating Temperature 0 ~ 60° C (32 ~ 140° F) 185 x 100 mm Storage Temperature -20-70° C (-4-158° F) (7.3"x3.9") Typical: +5 V @ 330 mA Relative Humidity 5 ~ 95% (IEC 68-2-3)

 Power Consumption Max: +5 V @ 500 mA • Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$

non-condensing -20~70° C (-4~158° F)

Specifications

Isolated Digital Output

 Output Channels 32 (16-ch/group) Optical Isolation $2,500 \, V_{nc}$ Throughput 10 kHz Supply Voltage 5 ~ 40 V_{Dr}

Sink Current 200 mA max./channel

General

 I/O Connector Type 37-pin D-type female Dimensions (L x H) 185 x 100 mm (7.3" x 3.9") Power Consumption Typical: +5 V @ 330 mA

Max: +5 V @ 500 mA

 Operating Temperature 0 ~ 60°C (32 ~ 140°F) Storage Temperature -20~70° C(-4~158° F)

 Relative Humidity 5 ~ 95% (IEC 68-2-3) non-condensing

Ordering Information

PCI-1730

Card, manual and driver CD-ROM (cable not. included.)

5 ~ 95% (IEC 68-2-3) non-condensing

Ordering Information

PCI-1733

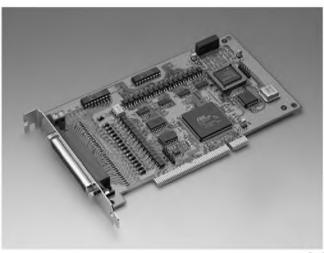
32-channel isolated digital input card, manual and driver CD-ROM (cable not included)

Ordering Information

PCI-1734

32-channel Isolated digital output card, user's manual and driver CD-ROM (cable not included)

32-ch Isolated Digital I/O and Counter Card



Features

- 16 isolated DI and 16 isolated DO channels
- High voltage isolation on all isolated channels (2.500 V_{ss})
- High sink current on isolated output channels (200 mA/channel)
- Supports dry contact or 5 50 V_{nc} isolated inputs
- Interrupt handling
- Timer/counter interrupt capability

CE

Introduction

PCI-1750 offers 16 isolated digital input channels, 16 isolated digital output channels, and one isolated counter/timer for the PCI bus. With isolation protection of 2,500 V_{nc}, and dry contact support, PCI-1750 is ideal for industrial applications where high-voltage protection is required. Each I/O channel of the PCI-1750 corresponds to a bit in a PC I/O port. This makes PCI-1750 very easy to program. This card also offers a counter or timer interrupt and two digital input interrupt lines to a PC. So you can then easily do configurations by software.

Plug & Play

PCI-1750 uses a PCI controller to interface the card to the PCI bus. The controller fully implements PCI bus specification Rev 2.1. All bus relative configurations, such as base address and interrupt assignment, are automatically controlled by the software. No jumper or DIP switch is required for user configuration.

On-board Programmable Counter/Timer

PCI-1750 provides a programmable counter/timer for generating periodic interrupts to the host computer. The counter/timer chip is an 82C54, which includes three 16-bit counters based on a 10 MHz clock. One counter is used to count events coming from the isolated input channel. The other two are cascaded together to make a 32-bit timer.

Specifications

Digital Input

16 Optically-isolated Inputs

 Input Range $5 \sim 50 V_{DC}$ or dry contact

 Isolation Voltage $2,500 \, V_{DC}$ Throughput 10 kHz

Digital Output

16 Optically-isolated Outputs

Output Range Open collector 5 ~ 40 Vpc Sink Current 200 mA max. per channel

Isolation Voltage 2,500 V_{DC} Throughput

Programmable Counter/Timer

One 32-bit timer

One 16-bit optically-isolated Counter

Shares pin with isolated input 15

- Throughput: 1 MHz max.

- Isolation voltage: 2,500 V_{DC}

General

Interrupt Source Isolated input 0, 8, counter and timer

Power Consumption 5 V @ 850 mA (typical), 5 V @ 1.0 A (max.)

Operating Temperature 0 ~ 70° C (32 ~ 158° F) Storage Temperature -20 ~ 80° C (-4 ~ 176° F)

5 ~ 95% RH non-condensing (refer to IEC 68-2-3) Operating Humidity Connectors One 37-pin D-type female connector

One 2-pin terminal block for extended ground 175 x 100 mm (6.9" x 3.9") Dimensions (L x H)

Ordering Information

PCI-1750 32-channel Isolated DIO and Counter Card, user's manual

and driver CD-ROM. (cable not included)

 PCL-10137-1 DB37 cable assembly, 1m PCL-10137-2 DB37 cable assembly, 2m PCL-10137-3 DB37 cable assembly, 3m

 ADAM-3937 37-pin D-type cable wiring terminal for DIN-rail mounting

Applications

- Industrial on/off control
- Contact closure monitoring
- Switch status sensing
- BCD interfacing
- Digital I/O control
- Industrial and lab automation



Ultra-Speed 32-ch Digital I/O Card



Features

- Bus-mastering DMA data transfer with scatter gather technology
- 32/16/8-bit Pattern I/O with start and stop trigger function, 2 modes Handshaking I/O Interrupt handling capability
- Onboard active terminators for high speed and long distance transfer
- Pattern match and Change state detection interrupt function
- General-purpose 8-ch DI/O

FCC (€

Introduction

The PCI-1755 supports PCI-bus mastering DMA for high-speed data transfer. By setting aside a block of memory in the PC, the PCI-1755 performs bus-mastering data transfers without CPU intervention, setting the CPU free to perform other more urgent tasks such as data analysis and graphic manipulation. The function allows users to run all I/O unctions simultaneously at full speed without losing data.

Specifications

Normal Mode Sci L. Organismos Sci	Channels	20 TTL compatible				
JO Configuration		32 TTL compatible				
SDI (PA) & 8.60 (PC) (Programmable)	Mulliper of Ports				(DC DD)	
Transfer Characteristics Data Transfer Mode Data Transfer Mode Data Transfer Plus Width B/16/32 bits (programmable)	I/O Configuration			(PA~PB) & IbDI	J (PU~PD);	
Transfer Characteristics	Onboard FIFO	16 KB for DI & 16 KB DO) channels			
Transfer Characteristics		Data Transfer Mode Bus Mastering DMA with Scatter-Gather				
Transfer Characteristics		Data Transfer Bus Width	8/16/32 bits (progra	ammable)		
Max. Transfer Rate Indige	Transfer					
Direction		Max. Transfer Rate	120 M bytes/sec, 32-bit @ 40 MHz external pacer when da length is less than FIFO size			
Handshaking Mode Asynchronous 8255 Emulation Synchronous Burst Handshaking Street		Operation Mode				
Raynchronous 8255 Emulation Synchronous Burst Handshaking		Direction	1/0	Samples No.		
Clock source for Burst Handshaking	l	Asynchronous	8255 Emulation	Synchronous	7 *	
Input	Handshaking Mode					
Normal Mode			for DI & Timer#1 for	r DO		
Normal Mode Clock Source for DI External: EXT CLKIN Clock Source for DO External: EXT CLKIN Clock Source for DO External: EXT CLKIN Clock Source for DO External: EXT CLKOUT Start Mode Software command/Trigger signal occurred from DI_STR or DO STR/Pattern DI Stop Mode Software command/Trigger signal occurred from DI_STP (for DI) or DO STR (for DO)/Pattern DI/Finite transfers* Monitor the selected input channel and capture data whenever there is a transition on one of the channels, and then issue a IRQ Clock Source for DI Internal: 30 MHz, 20 MHz, 15 MHz, 12 MHz, 10 MHz, Timer#0 External: EXT CLKIN Start Mode Software command/Trigger signal occurred from DI_STP/Pattern DI/Finite transfers* Start Mode Software command/Trigger signal occurred from DI_STP/Pattern DI/Finite transfers* DI trigger signal DI_STR, DI_STP Signal occurred from DI_STP/PatternDI/Finite transfers* DI trigger signal DI_STR, DI_STP DO trigger Signal occurred from DI_STP/PatternDI/Finite transfers* Trigger Capability Trigger Type Rising or falling edge, or digital pattern for edge triggers 10 ns min. Pulse width for edge triggers 10 ns min. Pattern trigger detection capabilities Terminator Onboard Schotlky diod etermination Messaging 2. When a specified input pattern is matched, 3. When a measurement operation completes.		Input		Data Acquisition at a predetermined rate by internal/external		
Normal Mode Clock Source for DI External: EXT CLKIN Internat: 30 MHz, 20 MHz, 15 MHz, 12 MHz, 10 MHz, Timer#1 External: EXT CLKIN Internat: 30 MHz, 20 MHz, 15 MHz, 12 MHz, 10 MHz, Timer#1 Start Mode Software command/Trigger signal occurred from DI_STR or DO_STR/Pattern DI Stop Mode Software command/Trigger signal occurred from DI_STP (for DI) or DO_STR/Pattern DI/"Finite translers"		Output	Waveform Generation at a predetermined rate by internal/external clock			
Clock Source Internat: 30 MHz, 20 MHz, 15 MHz, 12 MHz, 10 MHz, 11mer#1	Normal Modo	Clock Source for DI	External: EXT_CLKIN			
Start Mode DO_STR/Pattern_DI	Normal Mode		External: EXT_CLKOUT			
Chang Detection (DI only) Clock Source for DI Internat. 30 MHz, 20 MHz, 15 MHz, 10 MHz, Timer#0		Start Mode				
Chang Detection (Di only) Of the channels, and then issue a IRQ Clock Source for DI External: EXT CLKIN		Stop Mode				
Clock Source for DI External: EXT CLKIN			n issue a IRQ			
Start Would DI		Clock Source for DI				
Trigger Capability Trigger Capability Trigger Capability Trigger Type Trigger Spattern Frigger Spattern Sp	(DI only)	Start Mode	DI			
Trigger Capability Trigger Type Rising or falling edge, or digital pattern (for DI only) Pulse width for edge triggers Pattern trigger detection capabilities Terminator Onboard Schottky diode termination Messaging DUSTR, DUSTP signal DUSTR, DUSTP liquid 10 on smx. 10 ns min. Detect pattern match or mismatch on user-selected data lines Detect pattern match or mismatch on user-selected data lines apabilities Terminator Onboard Schottky diode termination Messaging		Stop Mode	Software command/Trigger signal occurred from DI_STP/ PatternDI/"Finite transfers"			
Trigger Capability Pulse width for edge triggers Pattern frigger detection capabilities Terminator Messaging Trigger Capability Pulse width for edge triggers Pattern frigger detection capabilities Terminator Onboard Schottky diode termination The messages can be generated when 1. A specified number of bytes have been transferred, 2. When a specified input pattern is matched, 3. When a measurement operation completes.		DI trigger signal	DI_STR, DI_STP		DO_STR, DO_STP	
Trigger Capability Pulse width for edge triggers Pattern frigger detection capabilities Terminator Onboard Schottky diode termination The messages can be generaled when f. A specified number of bytes have been transferred, 2. When a specified input pattern is matched, 3. When a measurement operation completes.	Trigger Capability	Low	0.8 V max.	High	2.0 V min.	
Pulse width for edge triggers Pattern frigger detection capabilities Terminator Onboard Schottky diode termination The messages can be generated when 1. A specified number of bytes have been transferred, 2. When a specified input pattern is matched, 3. When a measurement operation completes.		Trigger Type				
detection capabilities Detect pattern match or mismatch on user-selected data lines capabilities			10 ns min.			
Messaging The messages can be generated when 1. A specified number of bytes have been transferred, 2. When a specified input pattern is matched, 3. When a measurement operation completes.		detection	Detect pattern match or mismatch on user-selected data lines			
Messaging The messages can be generated when 1. A specified number of bytes have been transferred, 2. When a specified input pattern is matched, 3. When a measurement operation completes.	Terminator	Onboard Schottky diode	nottky diode termination			
	Messaging	The messages can be ge				
	Input Voltage					

	Terminator OFF: TTL compatible				
Input Load	Low	+0.5 V @ ±20 mA	High	+2.7 V @ ±1 mA max.	
	Terminator ON				
	Terminator Resistor	110 Ω	Termination Voltage	2.9 V	
	Low	+0.5 V @ ±22.4 mA	High	+2.7 V @ ±1 mA max.	
Output Voltage	Low	0.5 V max.	High	2.7 V min.	
Driving Capacity	Low	0.5 V max @ +48	mA (sink)	High 2.4 V min. @ -15 mA (source)	
Hysteresis	500 mV	Power Available at I/O connector	+4.65 ~ +5.25 V∞ @ 1A		
General-purposeDI/O	DI Channels	DIO - DI7 (TTL com	patible)		
deneral-harhozeni/o	DO Channels	D00 ~ D07 (TTL compatible)			
Interrupt Source	DI0~7 and Timer#2, Pattern match and Change detection, DI FIFO overflow and DO FIFO underflow, DI_STP and DO_STP				

Pacer

Channels Timer#0, Timer#1 and Timer#2
 Timer pacer for digital input
 Timer#1 Timer pacer for digital output
 Timer#2 Interrupt source
 Resolution 16-bit

10 MHz

General

Base Clock

I/O Connector Type	100-pin SCSI-II female			
Dimensions (L x H)	175 x 100 mm (6.9" x 3.9")			
Power Consumption	Typical Terminator OFF: +5 V @ 1 A Terminator ON: +5 V @ 1 A A Terminator ON: +5 V @ 1 A			Terminator ON:
Temperature	Operating	0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1,2)	Storage	-20 ~ 85° C (-4 ~ 185° F)
Relative Humidity	5 ~ 95% RH (refer to IE)	H non-condensing C 68-2-3)	Cert.	FCC, CE certified

Ordering Information

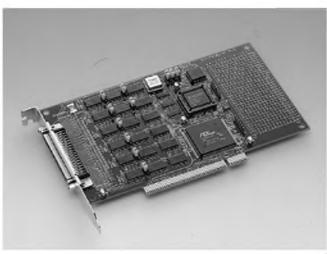
PCI-1755
 ADAM-39100
 Ultra-speed 32-ch Digital I/O Card
 PCI-1755 Wiring Terminal for DIN-

ADAM-39100
 PCL-1755 Wiring Terminal for DIN-rail Mounting
 PCL-101100-1
 100-pin SCSI-II cable with male connectors on both ends and special shielding for noise reduction, 1 m

PCI-1751 PCI-1751U

48-bit Digital I/O Card and Counter Card

48-bit Universal Digital I/O and Counter Card



Features

- 48 TTL digital I/O lines
- Emulates mode 0 of 8255 PPI
- . Buffered circuits for higher driving capacity than 8255
- Interrupt handling
- Timer/Counter interrupt capability
- Supports both dry and wet contact
- Keeps the I/O port setting and DO state after system reset
- Universal PCI & BoardID switch (PCI-1751U only)

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

Fulfilling the True Requirements of Industrial Applications

With two practical functions, the PCI-1751 fulfills the true requirements of industrial applications. When the system is hot reset, (power is not shut off), the PCI-1751 can either retain the last I/O port setting and output value, or reset to its default configuration, depending on jumper settings. This function protects the system from wrong operations during unexpected system resets. Additionally, the PCI-1751 supports both dry and wet contacts so that it can easily interface with other devices.

Interrupt Handling Capability

Two lines in each I/O port (C0 and C4) and two of the three counter outputs (Timer 1 and Counter 2) are connected to the interrupt circuitry. Two interrupt request signals can be generated at the same time and the software can service the two request signals by ISR. Moreover, a pin in the connector can output a digital signal simultaneously with the card generating an interrupt, and users can utilize this function to trigger external devices with the interrupt.

Specifications

I/O Channels
 Programming Mode
 48 digital I/O lines
 8255 PPI mode 0

Digital Output

Logic Level 0
Logic Level 1
0.4 V max. @ 24 mA (sink)
2.4 V min. @ 15 mA (source)

Digital Input

■ Logic Level 0 0 ~ 0.8 V ■ Logic Level 1 2 ~ 5.25 V

Programmable timer/counter

■ Frequency Range 0 ~ 10 MHz

Counters
 Two 16-bit counters or one 32-bit counter

One 16-bit event counter

General

Power Consumption 5 V @ 850 mA (typical) 5 V @ 1.0 A (max.)
 Operating Temperature 0 ~ 70° C (32 ~ 158° F)

Operating Temperature 0 ~ 70° C (32 ~ 158° F)
 Storage Temperature -20 ~ 80° C (-4 ~ 176° F)

Operating Humidity
 Connectors
 Dimensions (L x H)
 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)
 68-pin SCSI-II female connector (Centronics type)
 175 x 100 mm (6.9" x 3.9")

Applications

- Industrial AC/DC I/O monitoring and controlling
- Relay and switch monitoring and controlling
- Parallel data transfer
- TTL, DTL and CMOS logic signal sensing
- Indicator LED driving

Ordering Information

PCI-1751
 48-bit digital I/O card and Counter Card, user's manual

and driver CD-ROM. (cable not included)

PCI-1751U

48-bit universal digital I/O card and Counter Card,

user's manual and driver CD-ROM. (cable not included)

• PCL-10168 68-pin SCSI cable, 1 and 2m

• ADAM-3968 68-pin SCSI cable wiring terminal for DIN-rail

mounting

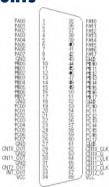
ADAM-3968/20 68-pin SCSI-II to three 20-pin Wiring Terminal Module

for DIN-Rail Mounting

■ ADAM-3968/50 68-pin SCSI to 2 x 50-pin box headers converter

module

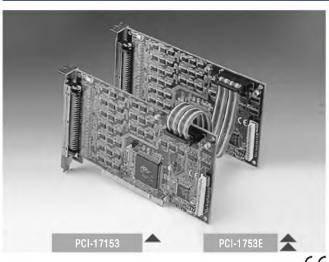
PCLD-8751 48-ch Isolated DI Board
 PCLD-8761 24-ch Replay and 24-IDI Board



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

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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 with 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

I/O Channels
 96 digital I/O lines for PCI-1753

192 digital I/O lines if extending with PCI-1753E

Programming Mode
 Input Signal
 8255 PPI mode 0
 logic level 0: 0.8 V max.

logic level 1: 2.0 V min.

- Output Signal logic level 0: 0.44 V max. @ 24 mA (sink) logic level 1: 3.76 V min. @ 24 mA (source)

Power Consumption +5 V @ 400 mA (typical)
 +5 V @ 2.7 A (max.)

Operating Temperature
 Storage Temperature
 Operating Humidity
 Operating Hum

Connector One 100-pin SCSI female connector (Centronics™ tyne)

Dimensions (L x H) 175 x 100 mm (6.9" x 3.9")

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

(PCL-10268 100-pin SCSI-II male connector P/N:

16549A0000

ADAM-3968
 ADAM-3968/20
 68-pin SCSI wiring terminal for DIN-rail mounting
 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 Replay and 24-IDI Board

Applications

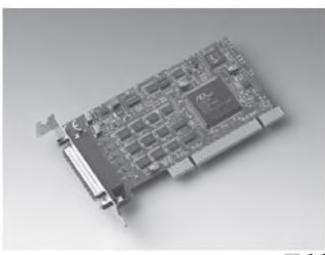
- Industrial AC/DC I/O devices for monitoring and controlling
- · Relay and switch monitoring and controlling
- Parallel data transfer
- TTL, DTL and CMOS logic signal sensing
- Indicator LED driving

Pin Assignments

PA00 ~PA07: I/O pins of Port A0
PA10 ~PA17: I/O pins of Port A1
PA20 ~PA27: I/O pins of Port A1
PA30 ~PA37: I/O pins of Port A2
PA30 ~PA37: 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 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

PCI-1757UP

24-ch Digital Input/Output Low Profile Universal PCI Card



Features

- Low profile PCI form factor
- Universal PCI bus
- 24 TTL level digital I/O channels
- Emulates mode 0 of 8255 PPI
- Buffered circuits provide higher driving capability
- Output status read-back
- I/O configurable by software or on board DIP switch
- Keeps port I/O settings and digital output states after hot reset
- BoardID™ switch
- Convenient DB-25 connector
- Drv/wet contact support



Introduction

PCI-1757UP is a 24-channel DI/O low profile PCI card that meets the PCI standard REV.2.2 (universal PCI expansion card). The card also works with 3.3 V and 5 V PCI slots, and provides you with 24 parallel digital input/output channels that emulate mode 0 of the 8255 PPI chip. However, the buffered circuits offer a higher driving capability than the 8255.

Specifications

Digital Input

• Channels 24 (shared with output)

Compatibility 5 V/TT

■ Input Voltage Logic 0: 0.8 V @ -0.2 mA

Logic 1: 2.0 V @ 20 mA

• Interrupt Capable Ch. 2

Digital Output

• Channels 24 (shared with input)

Compatibility 5 V/TTL

Output Voltage Logic 0: 0.5 V max. @ -24 mA

Logic 1: 3.7 V max. @ 24 mA

• Output Capability Sink: 24 mA

Source: 15 mA

General

Bus Type
 I/O Connectors
 Universal PCI V2.2
 1 x DB-25 female

■ **Dimensions** 119.91 x 64.41 mm (4.721" x 2.536") Low profile MD1

Power Consumption Typical: 5 V @ 140 mA

Max: 5 V @ 200 mA

Operating Temperature 0 ~ 70° C (32 ~ 158° F)
 Storing Temperature -20 ~ 80° C (-4 ~ 176° F)
 Storing Humidity 5 ~ 95% non-condensing

Ordering Information

PCI-1757UP
 24-channel digital input/output card

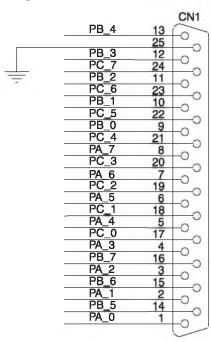
ADAM-3925 DB25 Wiring terminal for DIN-rail mounting

PCL-10125-1 DB25 cable assembly, 1 m

• **PCLD-782B** 24/16-ch. opto-isolated digital input board

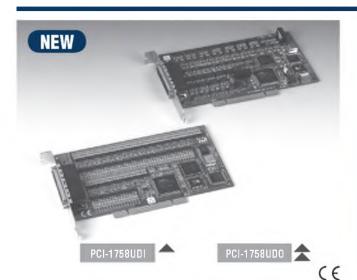
PCLD-785B
 24/16-ch. relay output board

PCL-12125-1
 DB25 to IDC50 flat cable for PCI-1757UP. 1 m



PCI-1758U

128-ch Isolated Digital I/O Card



Specifications

Isolated Digital Input

Madel News	PCI-1758UDI / PCI-1758UDIO		
Model Name	PGI-1/580DI / PC	1-1758UDIU	
Input Channels	128 / 64		
Interrupt Input	128 / 64		
Optical Isolation	2,500 V _{cc}		
Opto-Isolator Response Time	50 μs		
	VIH (max)	25V	
Input Voltage	VIH (min)	5V	
	VIL (max)	2.5V	
Input Resistance	3 kΩ		

Isolated Digital Output

Model Name	PCI-1758UDO / PCI-1758UDIO
Output Channels	128 / 64
Optical Isolation	2,500 V ₀₀
Opto-Isolator Response Time	50 µs
Supply Voltage	5-40 V
Sink Current	90 mA max./Channel

General

Model Name		PCI-1758UDI	PCI-1758UD0	PCI-1758UDIO	
I/O Connector Type		MINI-SCSI HDRA-E100 Female			
Dimensions		175 x 98 mm (6.9" x 3.9")			
Power Typical		+5 V @ 0.3 A	+5 V @ 1.1 A	+5 V @ 1.2 A	
Consumption	Max.	+5 V @ 0.6 A	+5 V @ 2.2 A	+5 V @ 1.8 A	
Temperature	Operating	0 ~ 60° C (32 ~ 140° F) (refer to IEC 68-2-1,2)			
remperature	Storage	-20 ~ 70° C (-4 ~ 158° F)			
Relative Humi	Relative Humidity 5 ~ 95% RH non-condensing (refer to IEC 68-2			to IEC 68-2-3)	

Ordering Information

PCI-1758UDI
 PCI-1758UDO
 PCI-1758UDIO
 PCI-1758UDIO
 128-channel Isolated Digital Output Card
 128-channel Isolated Digital Input/Output Card

PCL-101100S-1
 100-pin SCSI Cable, 1m

ADAM-39100 100-pin SCSI wiring terminal, DIN-rail mounting

Features

PCI-1758UDO and PCI-1758UDIO cards

- 128 isolated digital output channels (64 for PCI-1758UDIO)
- High-voltage isolation on output channels (2,500 V_{nc})
- Wide output range (5 ~ 40 V_{nc})
- High-sink current for isolated output channels (90 mA max./Channel)
- Current protection for each port
- BoardID™ switch
- · Output status read-back
- Digital output value retained after hot system reset
- Programmable Power-Up States
- Watchdog timer

PCI-1758UDI and PCI-1758UDIO cards

- 128 isolated digital input channels (64 for PCI-1758UDIO)
- Wide input range (5 ~ 25 V_{pc})
- High ESD protection (2,000 V_{nc})
- Digital Filter function
- BoardID™ switch
- Interrupt handling capability for each channel (128-ch)

Feature Details

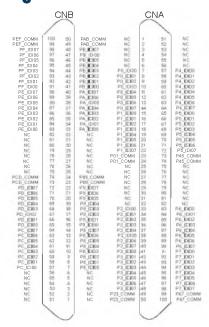
Interrupt Function (PCI-1758UDI/PCI-1758UDIO)

PCI-1758UDI and PCI-1758UDIO provide an interrupt function for every digital input channel. All the isolated digital input channels are connected to the interrupt circuitry. You can disable/enable the interrupt functions, select trigger type by setting the Rising Edge Interrupt Registers and Falling Edge Interrupt Registers of the card. When the interrupt request signals occur, software will service these interrupt requests by ISR. The multiple interrupt sources provide the card with more capability and flexibility.

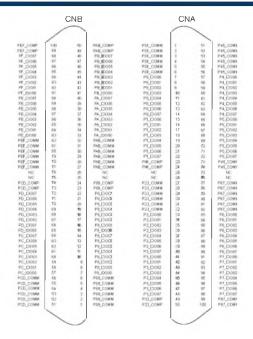
Digital Filter Function (PCI-1758UDI/PCI-1758UDIO)

The digital filter function is used to eliminate glitches on input data and reduce the number of changes to examine and process. The filter blocks pulses that are shorter than the specified timing interval and passes pulses that are twice as long as the specified interval. Intermediate-length pulses that are longer than half of the interval, but less than the interval, may or may not pass the filter.

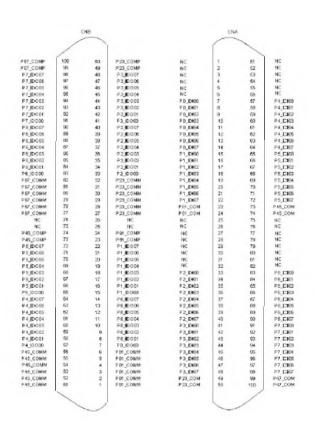
Pin Assignments



I/O Connector Pin Assignment for PCI-1758UDI



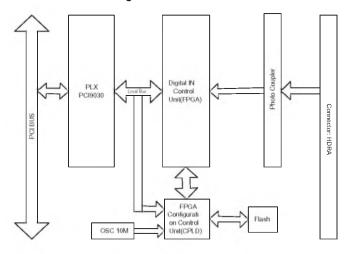
I/O Connector Pin Assignment for PCI-1758UDO



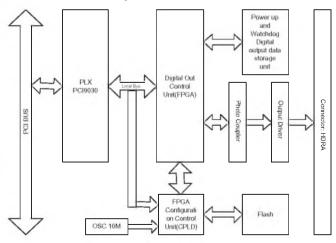
I/O Connector Pin Assignment for PCI-1758UDIO

Block Diagram

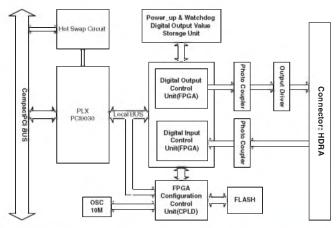
PCI-1758UDI Block Diagram



PCI-1758UDO Block Diagram



PCI-1758UDIO Block Diagram



PCI-1760 PCI-1760U

8-ch Relay Actuator and Isolated D/I Card



Features

- Universal PCI card, for 3.3 V and 5 V PCI slot
- 8 opto-isolated digital input channels
- 8 relay actuator output channels
- 2 opto-isolated PWM outputs
- . LED indicators to show activated relays
- Jumper selectable dry contact/wet contact input signals
- Up event counters for DI
- Programmable digital filter function for DI
- · Pattern match interrupt function for DI
- "Change of State" interrupt function for DI
- Universal PCI and BoardID switch (PCI-1760U only)

FCC (E

Introduction

The PCI-1760U relay actuator and isolated D/l card is a PC add-on card for the PCI bus. It meets the PCI standard Rev. 2.2 (Universal PCI expansion card), and works with both 3.3 V and 5 V PCI slots. It provides 8 opto-isolated digital inputs with isolation protection of 2,500 V_☉ for collecting digital inputs in noisy environments, 8 relay actuators that can be used as a on/off control devices or small power switches, and 2 isolated PWM (Pulse Width Modulation) outputs for custom applications.

For easy monitoring, each relay is equipped with one red LED to show its on/off status. Each isolated input supports both dry contact and wet contact so that it can easily interface with other devices when no voltage is present in the external circuit.

Specifications

Isolated Digital Input

Channels 8 (Sink)
 Opto-isolator PC354
 Input Voltage 5 ~ 12 V_{DC} High: > 4.5 V

Low: < 1.0 V

Uncertain: 1.0 V ≥ Vin ≥ 4.5 V

• Input Resistance 1 k Ω 1/4 W • Isolation Voltage 2,500 V_{nc}

■ **Digital Filter** Minimum effective high input period \geq [(2 - 65535) x

5 ms] + 5 ms

Minimum effective low input period \geq [(2 ~ 65535) x

5 ms] + 5 ms

• 16-bit UP Counter Maximum effective input frequency: 500 Hz

Minimum High period ≥ 1 ms Minimum Low period ≥ 1 ms

Relay Output

Channels

Relay Type
 Output Type
 Single-pole double-throw (SPDT, Form C)
 CHO and CH1: NC and NO outputs

CH2 – CH7: NC or NO outputs (selected by jumper)

■ Rating Contact Load 120 V_{DC} @ 0.5 A or 30 V_{DC} @ 1 A

Contact Resistance
 Less than 100 m Ω initially

■ Dielectric Strength Coil to contacts (deenergized): 1,500 V_{RMS} (1 minute) Between open contacts (deenergized & energized):

1,000 V_{RMS} (1 minute)

■ **Life Expectancy** 200,000 operations @ 0.5 A 120 V_{AC} 500,000 operations @ 1.0 A 30 V_{DC}

Operating Time 5 ms max.
 Releasing Time 5 ms max.

Isolated PWM output

■ Channels 2 ■ Isolation Voltage 2,500 V_{DC}

Scaling Resolution
 16 bits (100 ms for each step)

High period = $[(1 \sim 65535) \times 100 \text{ ms}] + 50 \text{ ms} \text{ (max.)}$ Low period = $[(1 \sim 65535) \times 100 \text{ ms}] + 50 \text{ ms} \text{ (max.)}$

High: (5 ±0.5) V

Low: < 0.8 V

General

Output Level

Power Consumption +5 V @ 450 mA (typical), 850 mA (max.)
 Operating Temperature 0 ~ 60° C (32 - 140° F) (IEC 68 - 2 - 1, 2)

• Storage Temperature $-20 \sim 70^{\circ}$ C $(-4 \sim 158^{\circ}$ F)

• Operating Humidity 5 ~ 95 % RH non-condensing (IEC 68-2-3)

Physical

Connector
 Dimensions (L x H)
 One 37-pin D-type connector
 175 x 100 mm (6.9" x 3.9")

Ordering Information

 PCI-1760U Relay Actuator and Isolated D/I Card, user's manual and driver CD-ROM (cable not included)

PCI-1760 8-ch Relay Actuator and Isolated D/I card DB37 cable assembly, 1m

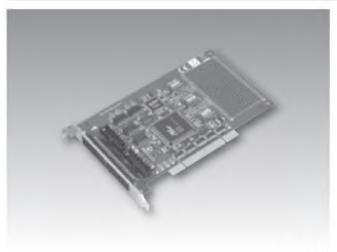
PCL-10137-2
 PCL-10137-3
 DB37 cable assembly, 2m
 DB37 cable assembly, 3m

ADAM-3937 DB37 wiring terminal for DIN-rail mounting

Applications

- . Digital signal and contact status monitoring
- Industrial On/Off control
- Signal switching
- External relay driving

PCI-1737U



Features

- 24 TTL digital I/O channels
- Emulates mode 0 of 8255 PPI
- Interrupt handling
- Opto-22 compatible 50-pin connectors
- Output status readback
- PCI universal card



Specifications

Digital Input

Channels 24 (shared with output)

Compatibility 5 V/TTL

Input Voltage Logic 0: 0.8 V max. Logic 1: 2.0 V min.

Interrupt Capable Ch.

Digital Output

Channels 24 (shared with input)

Compatibility 5 V/TTL

Logic 0: 0.4 V max. Output Voltage Logic 1: 2.4 V min.

 Output Capability Sink: 0.4 V max. @ 24 mA Source: 2.4 V min. @ 15 mA

General

Bus Type PCI-1737: Universal PCI V2.2

PCL-724: ISA

 I/O Connectors 50-pin male ribbon-cable connector

 Dimensions (L x H) 175 x 100 mm (6.9" x 3.9") Power Consumption Max: +5 V @ 294.9 mA • Operating Temperature 0 ~ 65° C (32 ~ 149° F) • Storing Temperature $-25 \sim 80^{\circ} \text{ C} (-13 \sim 176^{\circ} \text{ F})$

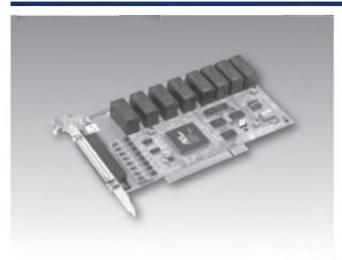
 Storing Humidity 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

 PCI-1737U 24-ch TTL Digital I/O Card PCL-10150-1.2 IDC-50 Flat Cable, 1.2 m PCLD-782B 16/24-ch Opto-isolated DI Board PCLD-785B 24/16-ch. relay output board PCLD-7216 16-ch SSR Carrier Module Board PCLD-885 16-ch Power Relay Output Terminal ADAM-3950 50-Pin Flat Cable Terminal, DIN-rail Mount

PC 7	1	2	GND
PC 6	3	4	GND
PC 5	5	6	GND
PC 4	7	8	GND
PC 3	9	10	GND
PC 2	11	12	GND
PC 1	13	14	GND
PC 0	15	16	GND
PB 7	17	18	GND
PB 6	19	20	GND
PB 5	21	22	GND
PB 4	23	24	GND
PB 3	25	26	GND
PB 2	27	28	GND
PB 1	29	30	GND
PB 0	31	32	GND
PA 7	33	34	GND
PA 6	35	36	GND
PA 5	37	38	GND
PA 4	39	40	GND
PA 3	41	42	GND
PA 2	43	44	GND
PA 1	45	46	GND
PA 0	47	48	GND
+5 V	49	50	GND

8-ch Relay Actuator/Isolated DI PCI Card



Features

- . 8 relay output channels and 8 isolated digital input channels
- LED indicators to show activated relays
- 4 Form C and 4 Form A type relay output channels
- · Male DB37 matching connector included
- Output status read-back
- Retained relay output values when hot system reset
- High-voltage isolation on input channels (3,750 V_{cc})
- High ESD protection (2,000 V_{pc})
- High over-voltage protection (70 VDC)
- Wide input range (10 ~ 50 Voc)
- Interrupt handling capability
- BoardID™ switch





Introduction

The PCI-1761 relay actuator and isolated D/I card is an add-on card for the PCI bus. It provides 8 optically-isolated digital inputs with isolation protection of 3,750 Vpc for collecting digital inputs in noisy environments and 8 relay actuators for serving as on/off control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its on/off status. The PCI-1761's eight optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

The PCI-1761 digital input channels feature a rugged isolation protection for industrial, lab and machinery automation applications. It durably withstands voltage up to 3,750 Vpc. protecting your host system from any incidental harms. If connected to an external input source with surge-protection, the PCI-1761 can offer up to a maximum of 2,000 Vpc ESD (Electrostatic Discharge) protection. Even with an input voltage rising up to 70 Vpc, the PCI-1761 can still manage to work properly, albeit for only a short period of time.

When the system has undergone a hot reset (i.e. without turning off the system power), the PCI-1761 can either retain output values of each channel, or return to its default configuration as open status, depending on its onboard jumper setting. This function protects the system from unwanted operations during unexpected system resets.

Specifications

Isolated Digital Input

Channels

 Input Voltage Logic 0: 3 V max.

Logic 1: 5V min. (50V max.)

 Interrupt Capable Ch. Isolation Protection $3,750 \, V_{DC}$ ■ Overvoltage Protection 70 V_{DC} ■ Opto-Isolator Response 25 µs

Input Current 1.6 mA @ 10 V_{DC}, 8.9 mA @ 50 V_{DC}

Relay Output

Input Resistance

Channels

 Relay Type SPDT (4 x Form C, and 4 x Form A) Contact Rating 250 V_{AC} @ 3 A, or 24 V_{DC} @ 3 A

 Relay on Time 15 ms max. Relay off Time 5 ms max. Life Span 2 x 107

Resistance

Contact: 50 MO Insulation: $1~\text{G}\Omega$ min

General

 Bus Type PCI V2.2 I/O Connectors 1 x 37-pin D-type 175 x 100 mm (6.9" x 3.9") Dimensions (L x H) Typical: +5 V @ 220 mA Power Consumption Max: +5 V @ 750 mA

• Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F}) (IEC 68-2-1, 2)$

 Storing Temperature -20 ~ 70° C (-4 ~ 158° F)

 Storing Humidity 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

Ordering Information

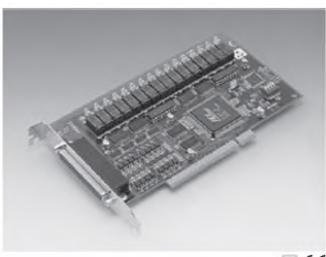
PCI-1761 8-ch Relay Actuator/Isolated DI PCI Card

PCL-10137-1 DB37 cable assembly, 1 m PCL-10137-2 DB37 cable assembly, 2 m PCL-10137-3 DB37 cable assembly, 3 m

ADAM-3937 DB37 Wiring Terminal for Din-rail Mounting

 PCLD-880 Universal screw terminal board

16-ch Isolated DI/Relay Output Card



Features

- 16 relay output channels and 16 isolated digital input channels
- LED indicators to show activated relays
- Jumper selectable Form A/Form B-type relay output channel
- Output status read-back
- · Retain relay output values when hot system reset
- High-voltage isolation on input channels (2,500 V_∞)
- High ESD protection (2,000 V_{DC})
- High over-voltage protection (70 V_{DC})
- Wide input range (10 ~ 50 V_{DC})
- Interrupt handling capability
- High-density DB-62 connector
- BoardID™ switch





Introduction

The PCI-1762 relay actuator and isolated D/I card is a PC add-on card for the PCI bus. It provides 16 opto-isolated digital inputs with isolation protection of 2,500 Vpc for collecting digital inputs in noisy environments, 16 relay actuators for serving as on/off control devices or small power switches. For easy monitoring, each relay is equipped with one red LED to show its on/off status. The PCI-1762's sixteen optically-isolated digital input channels are ideal for digital input in noisy environments or with floating potentials.

Specifications

Isolated Digital Input

Channels

 Input Voltage Logic 0: 3 V max.

Logic 1: 10 V min. (50 V max.)

 Interrupt Capable Ch. Isolation Protection $2,500 \, V_{DC}$ ■ Overvoltage Protection 70 V_{DC} ■ Opto-Isolator Response 25 µs Input Resistance $4.7 \,\mathrm{K}\Omega$

Relay Output

Channels

Relay Type SPDT (Form A or Form B, jumper selectable)

 Contact Rating $0.5\,A$ @ 125 V_{AC} or 1 A @ 30 V_{DC}

- Relay on Time 6 ms max. Relay off Time 4 ms max.

2 x 105 ops. min. (0.5 A @ 125 V_{AC}). Life Span

5 x 105 ops. min. (1 A @ 30 V_{DC})

 Resistance Contact: 50 MW

Insulation: 1,000 MW min. (at 500 V_{DC})

General

 Bus Type PCI V2.2

I/O Connectors 1 x DB62 D-type female Dimensions (L x H) 175 x 100 mm (69" x 3.9") Typical: +5V @ 250 mA Power Consumption

Max: +5V @ 620 mA

■ **Operating Temperature** 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1,2)

 Storing Temperature -20 - 70° C (-4 - 158° F)

 Storing Humidity 5 - 95 % non-condensing (IEC 68-2-3)

Ordering Information

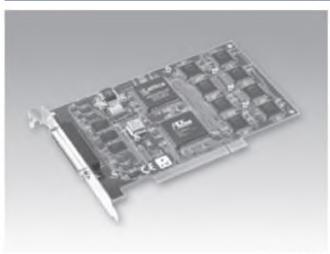
16-ch Isolated DI/Relay Output Card PCI-1762

PCL-10162-1 PCL-10162-1 DB-62 cable assembly, 1 m PCL-10162-3 PCL-10162-3 DB-62 cable assembly, 3 m

 PCL-10162-5 PCL-10162-5 DB-62 cable assembly, 5 m ADAM-3962 DB62 Wiring Terminal for Din-rail Mounting

PCI-1780U

8-ch Counter/Timer Card



Features

- 8 independent 16-bit counters
- 8 programmable clock source
- 8 digital TTL outputs and 8 digital TTL inputs
- Up to 20 MHz input frequency
- Multiple counter clock source selectable
- Counter output programmable
- Counter gate function
- Flexible interrupt source select
- BoardID™ switch



Introduction

PCI-1780 is a general purpose multi-channel counter/timer card for the PCI bus. It targets the AM9513 to implement the counter/timer function by CPLD. It provides eight 16-bit counter channels, 8 digital outputs and 8 digital inputs. Its powerful counter functions cater to a broad range of industrial and laboratory applications.

The card features 12 programmable counter modes, to provide one shot output, PWM output, periodic interrupt output, time-delay output, and to measure the frequency and the pulse width. The PCL-10168 shielded cable works well with PCl-1780 to reduce noise. Its wires are all twisted pairs, and the input signals and output signals are separately shielded. providing minimal cross talk between signals and the best protection against EMI/EMC problems.

For easier configuration, PCI-1780 supports Plug & Play, and have also been equipped with an Advantech BoardID™ DIP switch that helps define each card's unique identity when multiple identical PCI cards have been installed in the same computer. The BoardID switch is very useful when you build your system with multiple identical PCI cards. With the correct BoardID switch settings, you can easily identify and access each card during hardware configuration and software programming.

Specifications

Digital Input

Channels Compatibility 5 V/TTL

Logic 0: 0.8 V max. Input Voltage Logic 1: 2.0 V min.

CH0

Interrupt Capable Ch.

Digital Output

Channels Compatibility 5 V/TTL Logic 0: 0.8 V Output Voltage Logic 1: 2.0 V Output Capability Sink: 24 mA @ 0.8 V

Source: -15 mA @ 2.0 V

Counter/Timer

Channels 8 (independent) Resolution 16 bits Compatibility 5 V/TTL Max. Input Frequency 20 MHz

Reference Clock Internal: 20 MHz External clock: 20 MHz max.

Counter Modes 12 (programmable)

 Interrupt Capable Ch. PWM Channels

General

 Bus Type PCI V2.2

 I/O Connectors 1 x 68-pin SCSI-II female Dimensions (L x H) 175 x 100 mm (6.9" x 3.9") Power Consumption Typical: +5 V @ 900 mA Max.: +5 V @ 1.2 A

Operating Temperature 0 ~ 60° C (32 ~ 140° F) (IEC 68-2-1, 2)

 Storing Temperature -20 ~ 70° C (-4 ~ 158° F)

 Storing Humidity 5 ~ 95 % RH, non-condensing (IEC 68-2-3)

Ordering Information

PCI-1780 8-ch Counter/Timer Card PCL-10168-1 SCSI-68 shielded cable, 1 m

 ADAM-3968 SCSI-68 wiring terminal, DIN-rail mount

PCI-1752U/1752USO **PCI-1754 PCI-1756**

64-ch Isolated Digital Output Card 64-ch Isolated Digital Input Card 64-ch Isolated Digital I/O Card







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Features

- 64 isolated digital output channels
- High-voltage isolation on output channels (2500 V_{DC})
- 2000 V_{DC} ESD protection
- Wide output range (5 ~ 40 VDC)
- High-sink current on isolated output channels (200 mA max./channel)
- Output status read-back
- Keeps digital output values when hot system reset
- Channel-freeze function
- High-density 100-pin SCSI connector
- Support sink (1752U) & Source (1752USO) DO type

Specifications

Isolated Digital Output

- Channels **Output Type**
- Isolation Protection
- **Output Voltage**
- Sink Current
- Opto-isolator Response

64 (16-ch/group) Sink (NPN) 2.500 Vnc 5 ~ 40 Vnd

200 mA max./channel 25 µs

General

- Bus Type
- I/O Connectors
- Dimensions (L x H)
- **Power Consumption**
- Operating Temperature
- Storing Temperature Storing Humidity

Universal PCI V2.2 1 x 100-pin SCSI-II female 175x100mm (6.9" x 3.9") Typical: +5 V @ 230 mA Max.: +5 V @ 500 mA 0 ~ 60° C (32 ~ 140° F)

(IEC 68-2-1, 2) -20 ~ 70° C (-4 ~ 158° F) 5 ~ 95% RH, (IEC 68-2-3) non-condensing

Ordering Information

- PCI-1752U
- PCI-1752US0
- PCI-10250-1
- ADAM-3951

PCI-1752U 64-ch isolated PCI card (Sink type) 64-ch isolated PCI card (Source type) 1w-pin to two 50-pin SCSI Casle, Im

Wiring terminal module with LED-indicators for DIN-rail Mounting

Features

- 64 isolated digital input channels
- Either +/- voltage input for DI by group
- High-voltage isolation on input channels (2500 V_{DC})
- High over-voltage protection (70 VDC)
- Wide input range (10 ~ 50 VDC)
- Interrupt handling capability
- High-density 100-pin SCSI connector

Specifications

Isolated Digital Input

- Channels Input Voltage

Logic 1: 10 V min. (50 V max.) Input Current (Typical) 10 V_{DC} @ 1.7 mA, 12 V_{DC} @ 2.1 mA 24 V_{DC} @ 4.4 mA, 48 V_{DC} @ 9.0 mA

- Interrupt Capable Ch.
- Isolation Protection Overvoltage Protection
- Opto-Isolator Response

General

- Bus Type
- 1/0 Connectors
- Dimensions (L x H)
- **Power Consumption**
- **Operating Temperature**
- Storing Temperature
- Storing Humidity

100-pin SCSI-II female Typical: +5 V @ 340 mA

Max.: +5 V @ 450 mA (IEC 68-2-1, 2)

non-condensing

Ordering Information

- PCI-1754
- PCI-10250-1
- ADAM-3951

64-ch isolated digital input

1w-pin to two 50-pin SCSI Casle, Im

Wiring terminal module with LED-indicators for DIN-rail Mounting

Features

- Either +/- voltage input for DI by group
- Output status read-back for output channels
- · Keeps digital output values after hot system reset

Specifications

Isolated Digital Input

- Channels
- Input Voltage
- Interrupt Capable Ch.
- **Isolation Protection** Overvoltage Protection
- Opto-Isolator Response
- Input Current

50 V_{DC} @ 9.4 mA 2,500 V_{no}

64 (16-ch/group)

Logic 0: 3 V max.

70 Vpc 2,000 V_D

25 µs

PCI V2.2

175 x 100mm (6.9" x 3.9")

0 ~ 60° C (32 ~ 140° F)

-20 ~ 70° C (-4 ~ 158° F) 5 ~ 95% RH (IEC 68-2-3)

Isolated Digital Output

- Channels
- Output Type
- **Isolation Protection**
- **Output Voltage** Sink Current
- Opto-isolator Response
- 2,500 Vpc 5 ~ 40 VDC 200 mA max./channel 25 us

Sink (NPN)

32 (16-ch/group)

Logic 0: 3 V max.

Logic 1: 10 V min

10 V_{DC} @ 1.7 mA, 12 V_{DC} @

24 V_{DC} @ 4.4 mA, 48 V_{DC}

(50 V max.)

2,500 V_{DC}

2.000 Vpc

2.1 mA

@ 9.0 mA

50 V_{DC} @ 9.4 mA

32 (16-ch/group)

70 V_{DC}

2 (IDI0, IDI16)

General

- Bus Type
- I/O Connectors Dimensions (L x H)
- **Power Consumption**
- Operating Temperature
- Storing Temperature Storing Humidity

PCI V2.2

1 x 100-pin SCSI-II female 175x100mm (6.9" x 3.9") Typical: +5 V @ 285 mA

Max.: +5 V @ 475 mA 0 ~ 60° C (32 ~ 140° F)

(IEC 68-2-1, 2) -20 ~ 70° C (-4 ~ 158° F) 5 ~ 95 % (IEC 68-2-3)

Ordering Information

- PCI-1756
- PCI-10250-1 ADAM-3951

1w-pin to two 50-pin SCSI Casle, Im Wiring terminal module with LED-indicators for DIN-rail Mounting

64-ch Isolated Digital I/O

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