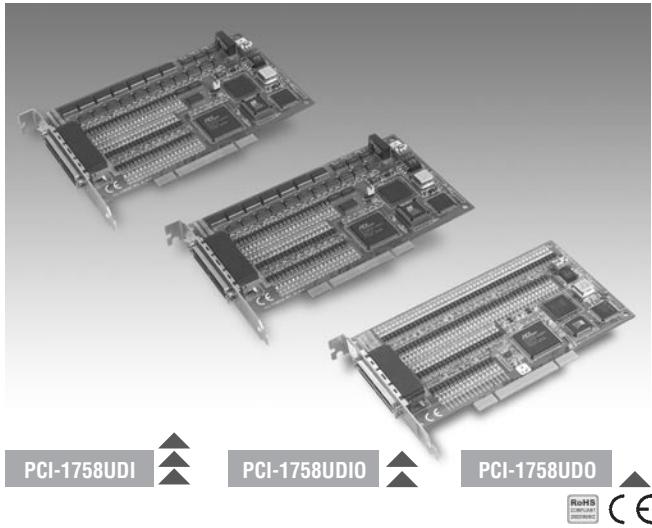


PCI-1758UDI

PCI-1758UDO

PCI-1758AUDIO



Specifications

Isolated Digital Input

▪ Channels	PCI-1758UDI: 128 PCI-1758AUDIO: 64
▪ Input Voltage	Logic 0: 2.5 V max. Logic 1: 5 V min. (25 V max.)
▪ Interrupt Capable Ch.	PCI-1758UDI: 128 PCI-1758AUDIO: 64
▪ Isolation Protection	2,500 V _{DC}
▪ Opto-Isolator Response	20 µs
▪ Input Resistance	3 kΩ

Isolated Digital Output

▪ Channels	PCI-1758UDO: 128 PCI-1758AUDIO: 64
▪ Output Type	Sink (NPN)
▪ Isolation Protection	2,500 V _{DC}
▪ Output Voltage	5 ~ 40 V _{DC}
▪ Sink Current	90 mA max./channel
▪ Opto-isolator Response	20 µs

General

▪ Bus Type	Universal PCI V2.2
▪ I/O Connectors	1 x MINI-SCSI HDRA-E100 Female
▪ Dimensions (L x H)	175 x 100 mm (6.9" x 3.9")
▪ Power Consumption	

	PCI-1758UDI	PCI-1758UDO	PCI-1758AUDIO
Typical	+5 V @ 0.3 A	+5 V @ 1.1 A	+5 V @ 1.2 A
Max.	+5 V @ 0.6 A	+5 V @ 2.2 A	+5 V @ 1.8 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 % (IEC 68-2-3) non-condensing

Ordering Information

▪ PCI-1758UDI	128-ch Isolated Digital Input Card
▪ PCI-1758UDO	128-ch Isolated Digital Output Card
▪ PCI-1758AUDIO	128-ch Isolated Digital I/O Card
▪ PCL-101100S-1	100-pin SCSI Cable, 1 m
▪ ADAM-39100	100-pin SCSI wiring terminal, DIN-rail mounting

128-ch Isolated Digital Input Universal PCI Card

128-ch Isolated Digital Output Universal PCI Card

128-ch Isolated Digital I/O Universal PCI Card

Features

PCI-1758UDO and PCI-1758AUDIO

- 128 isolated digital output channels (64 for PCI-1758AUDIO)
- High-voltage isolation on output channels (2,500 V_{DC})
- Wide output range (5 ~ 40 V_{DC})
- 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-1758AUDIO

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

Feature Details

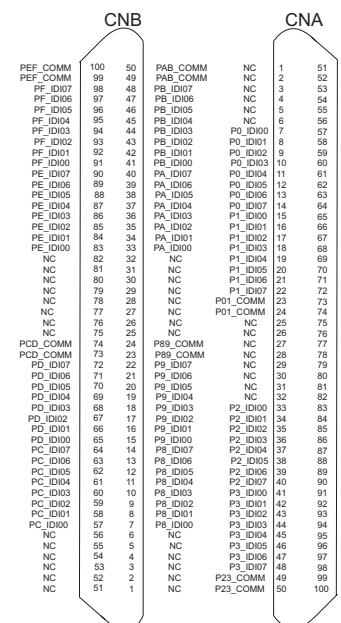
Interrupt Function (PCI-1758UDI/PCI-1758AUDIO)

PCI-1758UDI and PCI-1758AUDIO provide an interrupt function for every digital input channel. You can disable/enable the interrupt functions, and select trigger type by setting the Rising Edge Interrupt Registers or 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 flexibility.

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

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 depending on your settings.

Pin Assignments



I/O Connector Pin Assignment for PCI-1758UDI