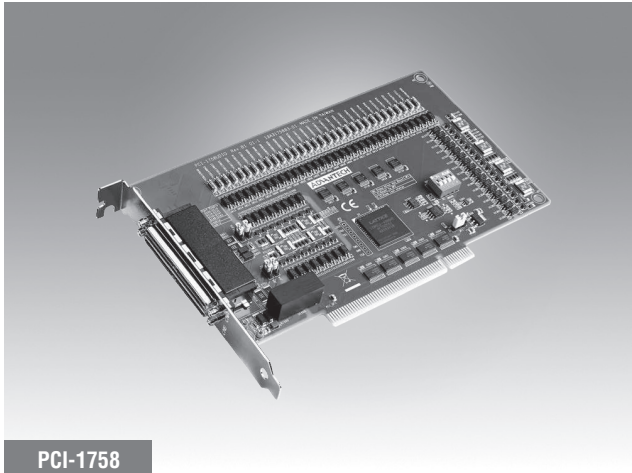


PCI-1758UDI PCI-1758UDO PCI-1758UDIO

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



PCI-1758

CE FCC RoHS

Specifications

Isolated Digital Input

- **Channels** PCI-1758UDI: 128
PCI-1758UDIO: 64
- **Input Voltage** Logic 0: ± 2.5 V
Logic 1: -25 V $\sim$ -5 V or 5 V $\sim$ 25 V
- **Interrupt Capable Ch.** PCI-1758UDI: 128
PCI-1758UDIO: 64
- **Isolation Protection** $2,500$ V_{DC}
- **Opto-Isolator Response** 100 μ s
- **Input Resistance** 3 k Ω

Isolated Digital Output

- **Channels** PCI-1758UDO: 128
PCI-1758UDIO: 64
- **Output Type** Sink (NPN)
- **Isolation Protection** $2,500$ V_{DC}
- **Output Voltage** $5 \sim 40$ V_{DC}
- **Sink Current** 200 mA/ch (sink) @ 25 °C
 150 mA/ch (sink) @ 60 °C
- **Opto-isolator Response** 100 μ s

General

- **Bus Type** Universal PCI V2.2
- **I/O Connectors** 2 x mini-SCSI HDRA-E100 female connector
- **Dimensions (L x H)** 175×100 mm ($6.9" \times 3.9"$)
- **Power Consumption**

	PCI-1758UDI	PCI-1758UDO	PCI-1758UDIO
Typical	5V @ 50 mA, 12V @ 20 mA	5V @ 50 mA, 12V @ 20 mA	5V @ 50 mA, 12V @ 20 mA
Max.	5V @ 220 mA, 12V @ 250 mA	5V @ 385 mA, 12V @ 250 mA	5V @ 325 mA, 12V @ 250 mA

- **Operating Temperature** $0 \sim 60$ °C ($32 \sim 140$ °F) (IEC 68-2-1, 2)
- **Storage Temperature** $-20 \sim 70$ °C ($-4 \sim 158$ °F)
- **Storage Humidity** $5 \sim 95\%$ non-condensing

Features

PCI-1758UDO and PCI-1758UDIO

- 128 isolated digital output channels (64 channels for PCI-1758UDIO)
- High-voltage isolation on output channels ($2,500$ V_{DC})
- Wide output range ($5 \sim 40$ V_{DC})
- High-sink current for isolated output channels (200 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

PCI-1758UDI and PCI-1758UDIO

- 128 isolated digital input channels (64 channels for PCI-1758UDIO)
- Wide input range ($5 \sim 25$ V_{DC})
- High ESD protection ($2,500$ V_{DC})
- Digital Filter function
- BoardID™ switch
- Interrupt handling capability for each channel

Ordering Information

- **PCI-1758UDI-BE** 128-ch Isolated DI Universal PCI Card
- **PCI-1758UDO-BE** 128-ch Isolated DO Universal PCI Card
- **PCI-1758UDIO-BE** 128-ch Isolated Digital I/O Universal PCI Card

Accessories

- **PCL-101100S-1E** 100-pin Mini-SCSI Cable, 1 m
- **PCL-101100S-2E** 100-pin Mini-SCSI Cable, 2 m
- **ADAM-39100-BE** 100-pin DIN-rail SCSI Wiring Board

Feature Details

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

PCI-1758UDI and PCI-1758UDIO 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-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.