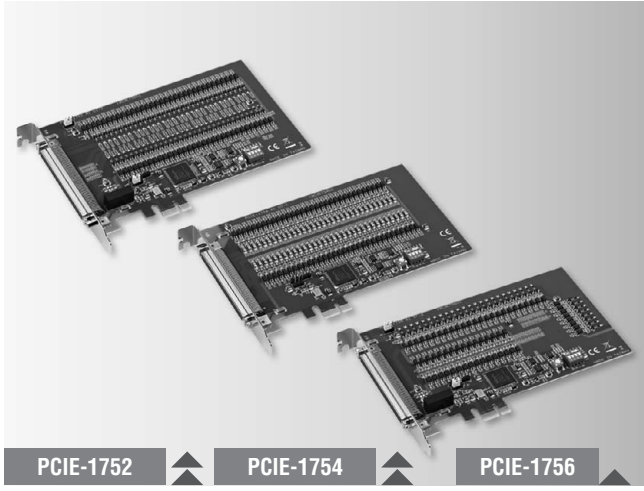


PCIE-1752 PCIE-1754 PCIE-1756

64-ch Isolated Digital Output PCI Express Card

64-ch Isolated Digital Input PCI Express Card

64-ch Isolated Digital I/O PCI Express Card



PCIE-1752

PCIE-1754

PCIE-1756



Features

PCIE-1752/1756

- Wide output range (5 ~ 40 V_{DC})
- High sink current on isolated output channels (500mA max./ch)
- 2,000 V_{DC} ESD protection
- High-voltage isolation (2,500 V_{DC})
- Interrupt handling capability

PCIE-1754/1756

- Wide input range (10 ~ 30 V_{DC})
- Either +/- voltage input for DI by group
- High over-voltage protection (70 V_{DC})
- High-voltage isolation (2,500 V_{DC})
- Output status read-back
- Keeps the output settings and values after system hot reset
- Channel-freeze function

Introduction

The Advantech PCIE-1752, PCIE-1754 and PCIE-1756 series products offer 64 isolated digital input and output channels with 2,500 V_{DC} isolation protection. They feature a wide input range (10 ~ 30 V_{DC}), wide output range (5 ~ 40 V_{DC}) and high sink current (500mA max./channel) can make PCIE-1752/1754/1756 series products easily used in industrial automation control systems. With the help of the latest Advantech driver - DAQNav, users can perform the configuration and setting easily and efficiently in the programming.

Specifications

Isolated Digital Input

- Channels**
 - PCIE-1754: 64
 - PCIE-1756: 32
- Input Voltage**
 - Logic 0: 3 V max.
 - Logic 1: 10 V min. (30 V_{DC} max.)
- Input Current**
 - 10 V_{DC} @ 2.97 mA
 - 20 V_{DC} @ 6.35 mA
 - 30 V_{DC} @ 9.73 mA
- Interrupt Capable Ch.**
 - PCIE-1754: 4
 - PCIE-1756: 2
- Isolation Protection**
 - 2,500 V_{DC}
- Overvoltage Protection**
 - 70 V_{DC}
- ESD Protection**
 - 2,000 V_{DC}
- Opto-isolator Response**
 - 50 μs

Isolated Digital Output

- Channels**
 - PCIE-1752: 64
 - PCIE-1756: 32
- Output Type**
 - Sink (NPN)
- Isolation Protection**
 - 2,500 V_{DC}
- Output Voltage**
 - 5 ~ 40 V_{DC}
- Sink Current**
 - 500 mA max./channel
- Opto-isolator Response**
 - 50 μs

General

- Bus Type**
 - PCI Express V1.0
- I/O Connectors**
 - 1 x 100-pin SCSI female connector
- Dimensions (L x H)**
 - 175 x 100mm (6.9" x 3.9")
- Power Consumption**
 - PCIE-1752**
 - Typical: 3.3 V @ 485 mA
 - Max.: 3.3 V @ 530 mA; 12V @ 90 mA
 - PCIE-1754**
 - Typical: 3.3 V @ 285 mA
 - Max.: 3.3 V @ 330 mA
 - PCIE-1756**
 - Typical: 3.3 V @ 385 mA
 - Max.: 3.3 V @ 430 mA; 12V @ 55 mA
- Operating Temperature**
 - 0 ~ 60°C (32 ~ 140°F)
- Storage Temperature**
 - 20 ~ 70°C (-4 ~ 158°F)
- Storage Humidity**
 - 5 ~ 95% RH, non-condensing (refer to IEC 68-2-3)

Ordering Information

- PCIE-1752**
 - 64-ch Isolated Digital Output PCI Express Card
- PCIE-1754**
 - 64-ch Isolated Digital Input PCI Express Card
- PCIE-1756**
 - 64-ch Isolated Digital I/O PCI Express Card

Accessories

- PCL-10250-1**
 - 100-pin SCSI to Two 50-pin SCSI Cable, 1 m
- PCL-10250-2**
 - 100-pin SCSI to Two 50-pin SCSI Cable, 2 m
- ADAM-3951**
 - 50-pin DIN-rail Wiring Board w/ LED Indicators
- PCL-101100M-3**
 - 100-pin SCSI to 100-pin SCSI Cable, 3 m
- ADAM-39100**
 - 100-pin DIN-rail Wiring Board

1	Motion Control
2	Hazardous Location
3	Energy Automation
4	Building Automation Systems
5	Automation Software
6	Operator Panels
7	Automation Panel PCs
8	Industrial Monitors
9	Industrial Ethernet
10	Device Servers & Gateways
11	Serial Communication Cards
12	Embedded Auto. Computers
13	PACs
14	M2M I/O
15	Distributed Nano Controllers
16	RS-485 I/O
17	Ethernet I/O
18	DAQ Boards