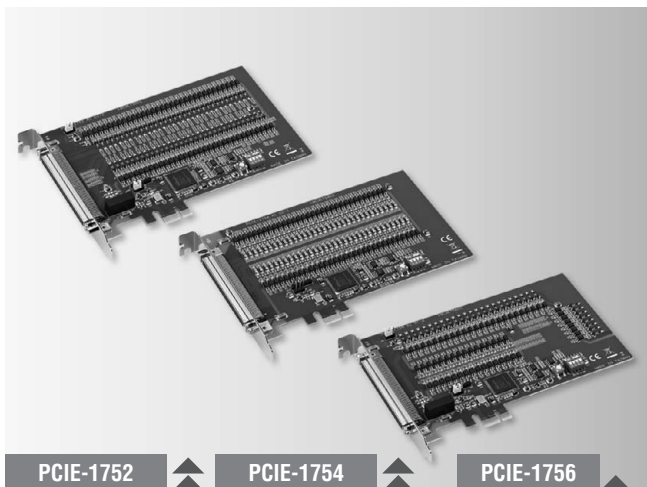


PCIE-1752 PCIE-1754 PCIE-1756

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