

# PCIE-1752

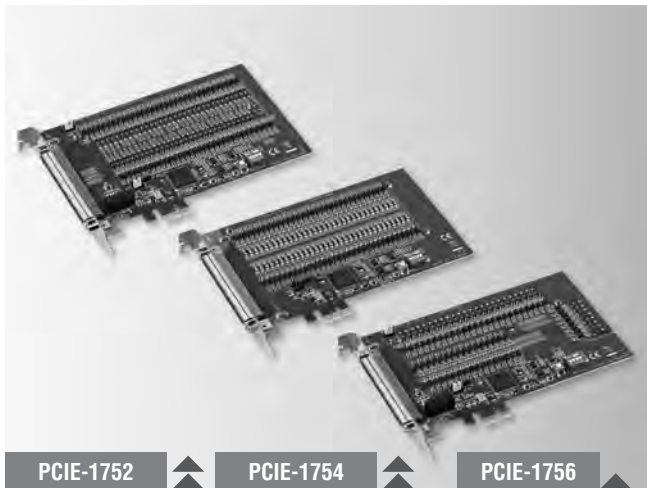
# PCIE-1754

# 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<sub>DC</sub>)
- High sink current on isolated output channels (500mA max./ch)
- 2,000 V<sub>DC</sub> ESD protection
- High-voltage isolation (2,500 V<sub>DC</sub>)
- Interrupt handling capability

#### PCIE-1754/1756

- Wide input range (10 ~ 30 V<sub>DC</sub>)
- Either +/- voltage input for DI by group
- High over-voltage protection (70 V<sub>DC</sub>)
- High-voltage isolation (2,500 V<sub>DC</sub>)
- 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<sub>DC</sub> isolation protection. They feature a wide input range (10 ~ 30 V<sub>DC</sub>), wide output range (5 ~ 40 V<sub>DC</sub>) 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<sub>DC</sub> max.)
- **Input Current** 10 V<sub>DC</sub> @ 2.97 mA  
20 V<sub>DC</sub> @ 6.35 mA  
30 V<sub>DC</sub> @ 9.73 mA
- **Interrupt Capable Ch.** PCIE-1754: 4  
PCIE-1756: 2
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Overvoltage Protection** 70 V<sub>DC</sub>
- **ESD Protection** 2,000 V<sub>DC</sub>
- **Opto-Isolator Response** 50 μs

### Isolated Digital Output

- **Channels** PCIE-1752: 64  
PCIE-1756: 32
- **Output Type** Sink (NPN)
- **Isolation Protection** 2,500 V<sub>DC</sub>
- **Output Voltage** 5 ~ 40 V<sub>DC</sub>
- **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)** 168 x 100 mm (6.6" 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

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