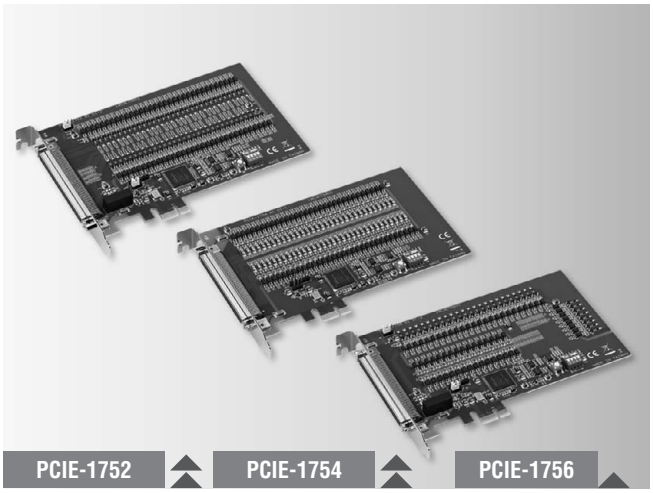
PCIE-1752
PCIE-1754
PCIE-1756

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



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 - DAQNavi, 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