

PCIE-1752

PCIE-1754

64-Ch Isolated Digital Output PCI Express Card

64-Ch Isolated Digital Input PCI Express Card



Features

PCIE-1752

- 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

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

Introduction

PCIE-1752 and PCIE-1754 are isolated DI/O cards that offer 64 isolated digital input/output channels with up to 2,500 V_{DC} isolation protection. Featuring a wide input (10 ~ 30 V_{DC})/output (5 ~ 40 V_{DC}) range and high sink current (500mA max./channel), PCIE-1752 and PCIE-1754 are ideal for use in industrial automation control systems. With Advantech's DAQNav driver package, users can adjust the configuration settings easily and efficiently.

Specifications

Isolated Digital Input

- **Channels** PCIE-1754: 64
- **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
- **Interruptible Channels** PCIE-1754: 4
- **Isolation Protection** 2,500 V_{DC}
- **Overvoltage Protection** 70 V_{DC}
- **ESD Protection** 2,000 V_{DC}
- **Opto-Isolator Response** 50 μ s

Isolated Digital Output

- **Channels** PCIE-1752: 64
- **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 μ s

General

- **Bus Type** PCI Express V1.0
- **I/O Connectors** 1 x 100-pin SCSI, female
- **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
- **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-AE** 64-ch isolated digital output PCI Express card
- **PCIE-1754-AE** 64-ch isolated digital input PCI Express card

Accessories

- **PCL-10250-1E** 100-pin SCSI to 2 x 50-pin SCSI cable, 1 m
- **PCL-10250-2E** 100-pin SCSI to 2 x 50-pin SCSI cable, 2 m
- **ADAM-3951-BE** 50-pin DIN rail wiring board w/LED indicators
- **PCL-101100M-3E** 100-pin SCSI to 100-pin SCSI cable, 3 m
- **ADAM-39100-BE** 100-pin DIN rail wiring board