

PCIE-1752 PCIE-1754

64-Ch Isolated Digital Output
PCI Express Card

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PCI Express Card



PCIE-1752

PCIE-1754



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 D/I/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 DAQNavi 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 µs

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 µs

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