PCIE-1751 PCIE-1753

48-Ch Digital I/O, 3-Ch Counter PCI **Express Card**

96-Ch Digital I/O PCI Express Card



Features

- Emulates Mode 0 of the Intel® 8255 PPI chip (every port with nibbles)
- Buffered circuits for a higher driving capacity compared to the Intel® 8255 PPI chip
- Interrupt handling capability
- Timer/counter interrupt capability •
- Supports both dry and wet contact
- Retains I/O port settings and DO configuration after system reset
- Board ID switch •
- Pattern match interrupt function for DI •
- . Change-of-state interrupt function for DI
- Programmable digital filter function for DI
- Output status read back

Introduction

PCIE-1751 is a 48-channel digital I/O card for the PCI Express bus. The channels are divided into six 8-bit I/O ports. Users can configure 4 channels per port (nibbles) to serve as input or output channels via software. PCIE-1751 also provides three 32-bit counters. PCIE-1753 is a 96-channel digital I/O card that emulates Mode 0 of the Intel® 8255 PPI chip. However, the buffered circuits offer a higher driving capability than that of the 8255 PPI chip. The 96 I/O channels are divided into twelve 8-bit I/O ports: A0, B0, C0, A1, B1, C1, A2, B2, C2, A3, B3 and C3. Users can configure every port to serve as input or output ports via software.

Specifications

Digital Input

•	Channels
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 Channels 	PCIE-1751: 48 (shared with output) PCIE-1753: 96 (shared with output)
 Compatibility 	5 V/TTL
 Input Voltage 	Logic 0: 0.8 V max. Logic 1: 2 V min.
 Interruptible Channels 	PCIE-1751: 6 PCIE-1753: 12

Digital Output

 Channels 	PCIE-1751: 48 (shared with input)
	PCIE-1753: 96 (shared with input)
A	

 Compatibility 	5 V/IIL
 Output Voltage 	Logic 0: 0.4 V max.
	Logic 1: 2.4 V min.
 Output Capability 	Sink: 24mA @ 0.4 V
	Source: 15mA @ 2.4 V

Counter/Timer (PCIE-1751 only)

Channels

 Resolution 3 x 32- 	-bit counter
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- Compatibility 5 V/TTL
- Max. Input Frequency 10 MHz

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Reference Clock Internal: 20K / 200K / 2M / 20MHz

3

External Clock Frequency: 10 MHz External Voltage Range: 5 V/TTL

General

- Bus Type
- I/O Connectors
- Dimensions (L x H)
- Power Consumption
- 168 x 100 mm (6.6" x 3.9") Typical: PCIE-1751: 5 V @ 400 mA PCIE-1753: 3.3 V @ 850 mA PCIE-1751: 5 V @ 2.63 A Max · PCIE-1753: 3.3V @ 2.7 A

PCIE-1751: 1 x 68-pin SCSI, female

PCIE-1753: 1 x 100-pin SCSI, female

Note: Maximum power consumption includes the consumption for a +5 V output.

Universal PCI Express

- 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

- 68-pin SCSI to 2 x 50-pin box header board
- 48-ch isolated digital input board
- PCLD-8761-AE 24-ch replay/ isolated digital input board
- PCLD-8762-AE
- 100-pin to 2 x 68-pin SCSI cables, 2 m 68-pin DIN rail SCSI wiring board

100-pin to 2 x 68-pin SCSI cables, 1 m

68-pin SCSI shielded cable, 2 m

48-ch digital I/O and 3-ch counter PCI Express card

- 68-pin SCSI to 3 x 20-pin box header board
- 48-ch relay board

Industrial I/O

- PCIE-1751-AE
 - PCIE-1753-AE
 - Accessories
- PCL-10168-1E
- PCL-10168-2E
- PCL-10268-1E
- PCL-10168-2E
- ADAM-3968-AE
- ADAM-3968/20-AE
- ADAM-3968/50-AE
- PCLD-8751-AE

96-ch digital I/O PCI card

- 68-pin SCSI shielded cable, 1 m