

PCIE-1751 PCIE-1753

48-ch Digital I/O and 3-ch Counter PCI Express Card

96-ch Digital I/O PCI Express Card



PCIE-1751

PCIE-1753



Features

- Emulates mode 0 of 8255 PPI (every port with nibble)
- Buffered circuits for higher driving capacity than the 8255
- Interrupt handling capability
- Timer/Counter interrupt capability
- Supports both dry and wet contact
- Keeps the I/O port setting and DO state after system reset
- BoardID 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

The PCIE-1751 offers 48-bit digital I/O and the PCIE-1753 offers 96-bit digital I/O for PCI Express. The channels are divided into six 8-bit and twelve 8-bit I/O ports separately. Users can configure each 4-channel per port (nibble) as input or output via software. The PCIE-1751 also provides three 32-bit counters.

Specifications

Digital Input

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

Digital Output

- Channels** 48 (shared with output) (PCIE-1751)
96 (shared with output) (PCIE-1753)
- Compatibility** 5 V/TTL
- 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** 3
- Resolution** 3 x 32-bit counter
- Compatibility** 5 V/TTL
- Max. Input Frequency** 10 MHz
- Reference Clock** Internal: 20K / 200K / 2M / 20MHz
External Clock Frequency: 10 MHz
External Voltage Range: 5 V/TTL

General

- Bus Type** Universal PCI Express
- I/O Connectors** 1 x 68-pin SCSI female connector (PCIE-1751)
1 x 100-pin SCSI female connector (PCIE-1753)
- Dimensions (L x H)** 168 x 100 mm (6.6" x 3.9")
- Power Consumption** Typical: 3.3 V @ 850 mA
Max.: 3.3V @ 2A (PCIE-1751)
Typical: 3.3V @ 1 A
Maximum: 3.3 V @ 3 A (PCIE-1753)

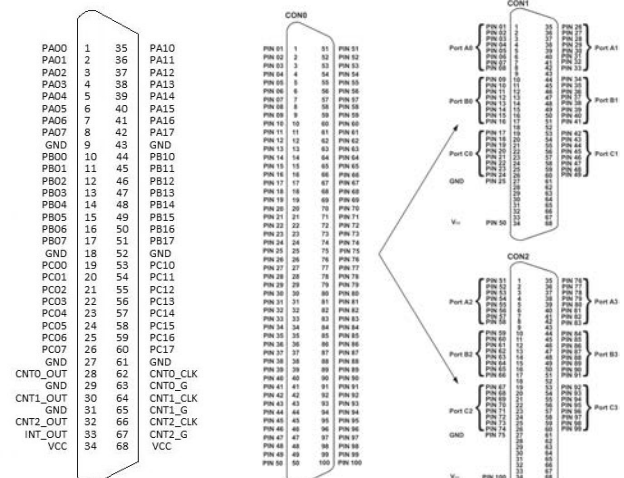
Note: The maximum power consumption includes power consumption for +5 V output (on pin 34 and pin 68, with 0.5 A for PCIE-1751, on pin 50 and pin 100, with 0.5 A for PCIE-1753)

- Operating Temperature** 0~60°C (32~140°F)
- Storage Temperature** -20 ~ 85°C (-4 ~ 158°F)
- Storage Humidity** 5 ~ 95% RH, non-condensing

Ordering Information

- PCIE-1751** 48-ch Digital I/O and 3-ch Counter PCI Express
- PCIE-1753** 96-ch Digital I/O PCI Express Card
- PCL-10168-1E** 68-pin SCSI Shielded Cable, 1 m (PCIE-1751 only)
- PCL-10168-2E** 68-pin SCSI Shielded Cable, 2 m (PCIE-1751 only)
- PCL-10268-1E** 100-pin to Two 68-pin SCSI Cables, 1 m (PCIE-1753 only)
- PCL-10268-2E** 100-pin to Two 68-pin SCSI Cables, 2 m (PCIE-1753 only)
- ADAM-3968** 68-pin DIN-rail SCSI Wiring Board
- ADAM-3968/20** 68-pin SCSI to 3 20-pin Box Header Board
- ADAM-3968/50** 68-pin SCSI to 2 50-pin Box Header Board
- PCLD-8751** 48-ch Isolated Digital Input Board
- PCLD-8761** 24-ch Replay/ Isolated Digital Input Board
- PCLD-8762** 48-ch Relay Board

Pin Assignment



PCIE-1751 Pin Assignments

PCIE-1753 Pin Assignments