PCI-7396

96-CH High-Driving DIO Card



Features

- **Supports a 32-Bit 5 V PCI bus**
- **96-CH digital TTL inputs/outputs (PCI-7396)**
- **High driving up to 48 mA (sink) and 15 mA (source)**
- **Emulates 4/2 industry standard 8255 PPI (mode 0)**
- **Ports are independently configurable as input or output**
- **External latch signal available for digital inputs**
- **Output status read back**
- **Known power-up states**
- **Onboard 8254 timer/counter chip**
- **1-CH 16-Bit event counter for external signal**
- **1-CH 32-Bit timer for timed interrupt generation**
- **Change-of-state (COS) interrupt**
- **Multiple programmable interrupt sources**
- **Compact, half-size PCB**

Supported Operating System

- Windows 7/8 x64/x86, Linux

Driver and SDK

- LabVIEW, MATLAB, C/C++, Visual Basic, Visual Studio.NET

Software Utility

- AD-Logger

Specifications

Digital I/O

- Number of channels
  - 96 input/output
- Compatibility: 5 V/TTL
- Power-on state: input
- Digital logic levels
  - Input high voltage: 2-5.25 V
  - Input low voltage: 0-0.8 V
  - Output high voltage: 2.4 V minimum
  - Output low voltage: 0.5 V maximum
- Output driving capacity
  - Source current: 15 mA
  - Sink current: 48 mA
- Data transfers: programmed I/O

Interrupt

- Interrupt #0 sources
  - P1C0
  - P1C3
  - 16-Bit event counter
  - Change-of-state detection on any bit of PPI 1 & PPI 2
- Interrupt #1 sources
  - P2C0
  - P2C3
  - 32-Bit timer (based on 2 MHz internal clock),
  - Change-of-state detection on any bit of PPI 3 & PPI 4

General Specifications

- I/O connector : One 100-pin SCSI-II female
- Operating temperature: 0°C to 60°C (32°F to 140°F)
- Storage temperature: -20°C to 80°C (-4°F to 176°F)
- Relative humidity: 5% to 95%, non-condensing
- Power requirements

Device	+5 V
PCI-7396	450 mA typical

- Dimensions (not including connectors)
  158 mm x 107 mm (6.16" x 4.17")

Terminal Boards & Cables

DIN-100S-01

Terminal Board with One 100-pin SCSI-II Connector and DIN-Rail Mounting (Cables are not included.)

DIN-96DI-01

96-CH Isolated DI Terminal Board with DIN-Rail Mounting (Cables are not included.)

ACL-102100-1

100-pin SCSI-II cable (mating with AMP-787082-9), 1 M

*** For more information on mating cables, please refer to P3-48/49.**

Ordering Information

PCI-7396
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