

# 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
  - I-CH 16-Bit event counter for external signal
  - I-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
  - PIC0
  - PIC3
  - 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**  
96-CH High-Driving DIO Card

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