### 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-C/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: 0.3 V maximum
- **Output driving capacity**
  - Source current: 15 mA
  - Sink current: 48 mA
- **Data transfers:** programmed I/O

#### Interrupt
- **Interrupt #0 sources**
  - P1/C0
  - P1/C3
  - 16-Bit event counter
- **Change-of-state detection on any bit of PPI 1 & PPI 2**
- **Interrupt #1 sources**
  - P2/C0
  - P2/C3
  - 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-1005-01**
  - 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