PCI/PCIe-7200

32-CH DI & 32-CH DO 12 MB/s High-Speed Cards



PCI-7200



PCIe-7200

Features

- **Supports a 32-Bit 5 V PCI bus (PCI-7200)**
- **x1 lane PCI Express® interface (PCIe-7200)**
- **32-CH TTL digital inputs and 32-CH TTL digital outputs**
- **Up to 12 MB/s transfer rate**
- **Bus-mastering DMA for both digital inputs and outputs**
- **Onboard programmable timer pacer clock**
- **Supports handshaking digital I/O transfer mode**
- **Multiple programmable interrupt sources**
- **5 V power available on connectors**
- **Compact, half-size PCB (PCI-7200/PCIe-7200)**

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:
  - 32-CH digital inputs
  - 32-CH digital outputs
- Compatibility: 5 V/TTL
- Data transfer rate
  - 12 MB/s with external 3 MHz clock, handshaking or external strobe
  - 8 MB/s with internal 2 MHz timer pacer
- Digital logic levels
  - Input high voltage: 2-5.25 V
  - Input low voltage: 0-0.8 V
  - Output high voltage: 2.7 V minimum
  - Output low voltage: 0.5 V maximum
- Output driving capacity
  - Source current: 3.0 mA
  - Sink current: 24 mA
- Data transfers:
  - programmed I/O, interrupt, bus-mastering DMA

Programmable Counter

- Base clock: 4 MHz
- Timer 0: DI clock source
- Timer 1: DO clock source
- Timer 2: Base clock source of timer 0 & 1

Interrupt

- Sources:
  EO_ACK, EI_REQ, Timer 0, Timer 1 or Timer 2

General Specifications

- I/O connector
  - PCI/PCIe-7200
    - 37-pin D-sub female
    - 40-pin Header
- 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	Power Consumption
PCI-7200	5 V @ 720 mA typical
PCIe-7200	12 V @ 200 mA 3.3 V @ 500 mA

- Dimensions (not including connectors)
  - 148 mm x 102 mm (5.77" x 3.97") (PCI/PCIe-7200)

Terminal Boards & Cables

PCI/PCIe-7200:

- DIN-37D-01
  Terminal Board with One 37-pin D-sub Connector and DIN-Rail Mounting (Cables are not included.)
- ACLD-9137-01
  General-Purpose Terminal Board with One 37-pin D-sub Male Connector
- ACLD-9137F-01
  General-Purpose Terminal Board with One 37-pin D-sub Female Connector
- ACL-10137-1MM
  37-pin D-sub male/male cable, 1 M
- ACL-10137-1MF
  37-pin D-sub male/female cable, 1 M

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

Ordering Information

- **PCI-7200**
  12 MB/s High-Speed 32-CH DI & 32-CH DO Card
- **PCIe-7200**
  12 MB/s High-Speed 32-CH DI & 32-CH DO PCI Express® card

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