

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

Ordering Information

■ PCI-7200

12 MB/s High-Speed 32-CH DI & 32-CH DO Card **EOL**

■ PCIe-7200

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