



PCI-1202L/PCI-1202H

110KS/s 12-bit High Performance Analog and Digital I/O Board

[PIN Assignment](#) [Software](#) [Manual](#)



Functional Description

The PCI-1202 series is a family of high performance data acquisition board for the PCI bus. It features a continuous, 110KHz, gap-free data acquisition under DOS and Windows. The PCI-1202 family has the same hardware architecture as PCI-1802. The PCI-1202 provides 32-channel single-ended or 16-channel differential analog inputs. Like the PCI-1802 family, the PCI-1202 series features " Magic Scan" function, M-function, X-function, and Continuous Capture function.

Features

- PCI bus
- PCI-1202L 12-bit 110KHz A/D converter (High Gain)
- PCI-1202H 12-bit 110KHz A/D converter (Low Gain)
- PCI-1202L/PCI-1202H -32 single-ended/ 16 differential inputs, 2K word FIFO buffer
- The sampling rates of single channel or multiple channels is 110K samples/s
- Three different external trigger : post-trigger, pre-trigger, middle trigger
- 16 digital input / 16 digital output channels
- PCI-1202L provides programmable low gain: 0. 5, 1, 2, 4, 8.
- PCI-1202H provides programmable high gain: 0. 5, 1, 5, 10, 50, 100, 500, 1000.
- Internal / external trigger.
- Two 12-bit independent programmable DAC.; 2 MHz throughput per channel (maxi)
- 2.7 M word /high speed data transfer rate.

Applications

- High speed data acquisition system
- Process monitor and control.
- Vibration analysis.
- Digital pattern generator from digital I/O port

Specifications

Analog Input Specifications

	PCI-1202L	PCI-1202H
Input channel	32 S.E./ 16 Diff (Jumper Setting)	32 S.E. / 16 Diff (Jumper Setting)
Resolution	12-bit	12-bit
Conversion rate	110Ks/s	40Ks/s
Input Impedance	10,000M Ohm // 6pf	10,000M Ohm // 6pf
Over voltage protection	+/- 35V	+/- 35V
Linearity	+/-1-bit	+/-1-bit
On board FIFO	2K	2K
Programable Gain	0.5/1/2/4/8	0.5/1/5/10/50/100/500/1000

D/A Outputs

Channels	2
Type	12-bit Double Buffers
Linearity	0.06% FS
Settling time	0.4mS
Output Range	-5V ~ +5V or -10V~+10V
Output Driving	+5mA

Digital I/O

Input	16-channel TTL levels
Output	16-channel TTL levels

Timer

Internal Pacer timer	16-bit , 8Mhz input
External Pacer timer	16-bit , 8Mhz input
Machine independent timer	16-bit , 8Mhz input

General Environmental

Power Requirements:	+5V @ 350mA max.
Operating temp	0-50 C
Storage temp	-20 to 70 C
Humidity	0 to 90% non-condensing
Dimensions	205 mm x 105 mm

Software

- Modify
- Toolkit for DOS
- Toolkit for Windows 95/98
- Toolkit for Windows NT
- Toolkit for Windows 2000
- Toolkit for LabVIEW 95/98
- Toolkit for LabVIEW NT
- Driver for LINUX
- Driver for Java

DB-1825 : Analog Input Screw terminal Board
DB-16P : Isolated Digital Input Daughter Board
DB-16R : Relay Output Daughter Board
DN-20 : 20-pin DIN-RAIL mounting I/O connector Board
DN-37 : D-sub 37-pin DIN-Rail mounting I/O connector Board
ADP-20/PCI : Extender, Extended dual 20 -pin flat-cable connector to PC slot window

Ordering Information

PCI-1202L	PCI-Bus 32-channel 12bit A/D Card (Low Gain)
PCI-1202H	PCI-Bus 32-channel 12-bit A/D Card (High Gain)
OEM Version	
PCI-1202L/S	PCI-1202L with DB-1825 daughter board , Cable
PCI-1202H/S	PCI-1202H with DB-1825 daughter board , Cable