PEX-1002L/PEX-1002H

PCI Express, 32-ch, 12-bit, 110 or 44 kS/s Multi-function Board

Available soon

Features

- PCI Express x1, Plug & Play
- 110 or 44 kS/s A/D sampling rate
- 16-ch 5V TTL D/I
- Supports Card ID (SMD Switch)
- 12-bit, 32 S.E/16 Diff. analog inputs
- Internal pacer trigger
- 16-ch 5V TTL D/O
- D/I with pull-high and pull-low jumpers

Introduction

The PEX-1002L/H is the new generation product that ICP DAS provides to meet RoHS compliance requirement, and is designed as easy replacement for the PCI-1002 series. Users can replace the PCI-1002 series by the PEX-1002L/H directly without any software/driver modification.

The PEX-1002L/H supports PCI Express bus and provides 12-bit 32 single-ended or 16 differential analog inputs, 16 TTL digital input and 16 TTL digital output channels.

The PEX-1002L/H adds a Card ID switch for users to recognize the board by the ID via software when using two or more PEX-1002L/H cards in one computer. The pull-high/low jumpers allow user to predefine the DI status instead of floating when the DI channels are unconnected or broken.

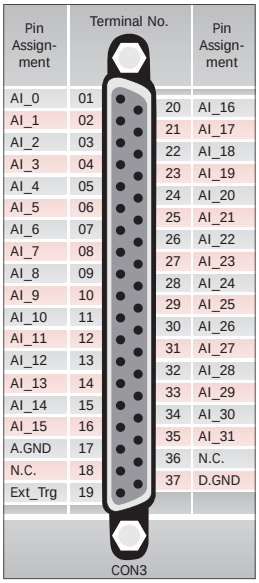
Software

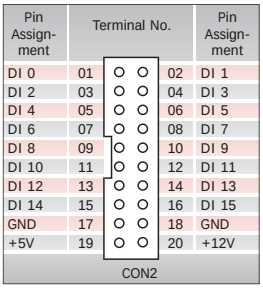
- DOS Lib and TC/BC/MSC sample program (with source codes)
- DLL and OCX SDK for 32-bit and 64-bit Windows XP/2003/Vista/2008/7
- VB/VC/Delphi/BCB/VB.NET/C#.NET sample programs with source codes
- Supports LabVIEW and Linux

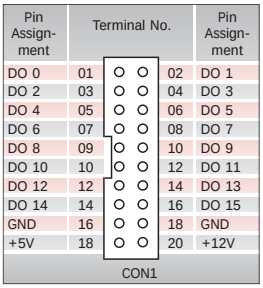
Hardware Specifications

Models	PEX-1002L	PEX-1002H
Analog Input		
Channels	32 S.E/16 Diff.	
Resolution	12-bit	
Accuracy	0.01% of FSR ± 2 LSB @ 25 °C, ± 10 V	
Sampling Rate	110 kS/s	44 kS/s
Digital Inputs		
Channels	16-ch, 5 V/TTL	
Input Voltage	Logic 0: 0.8 V max., Logic 1: 2.0 V min.	
Response Speed	500 kHz (Typical)	
Digital Outputs		
Channels	16-ch, 5 V/TTL	
Output Voltage	Logic 0: 0.4 V max., Logic 1: 2.4 V min.	
Output Capability	Sink: 2.4 mA @ 0.8 V, Source: 0.8 mA @ 2.0 V	
Response Speed	500 kHz (Typical)	
General		
Bus Type	PCI Express x1	
Card ID	Yes (4-bit)	
Connectors	Female DB-37 x 1, 20-pin box header x 2	
Power Consumption	800 mA @ +5 V	
Operating Temperature	0 °C ~ +60 °C	
Humidity	5 ~ 85% RH, non-condensing	

Pin Assignments







Ordering Information

PEX-1002L CR	PCI Express, 32-ch, 12-bit, 110 kS/s. Low Gain Multi-function DAQ Board (Rohs) Includes one CA-4002 D-Sub cable.
PEX-1002H CR	PCI Express, 32-ch, 12-bit, 44 kS/s. High Gain Multi-function DAQ Board (Rohs) Includes one CA-4002 D-Sub cable.