

## I/O Cards

### PCI-1002LU/PCI-1002HU

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



### Features ▶▶▶

- Universal PCI (3.3 V/5 V) interface
- 110 or 44 kS/s A/D sampling rate
- 16-ch 5 V TTL D/I
- 16-ch 5 V TTL D/O
- 12-bit, 32 S.E/16 Diff. Analog inputs
- Internal trigger
- D/I with pull-high and pull-low jumpers
- Drop-in replacement for the PCI-1002L/1002H

### Introduction

The PCI-1002LU/HU universal PCI card supports 3.3 V/5 V PCI bus and is the new generation product that ICP DAS provides to meet RoHS compliance. The new PCI-1002LU/HU (universal PCI) are totally compatible with the PCI-1002L/H (PCI), and users can replace the PCI-1002L/H directly by the PCI-1002LU/HU without software/driver modification.

The PCI-1002 series is a family of A/D board and features low-gain 110 kS/s or high-gain 44 kS/s analog input. It provides 12-bit 32 single-ended or 16 differential analog inputs, 16 digital input and 16 digital output channels.

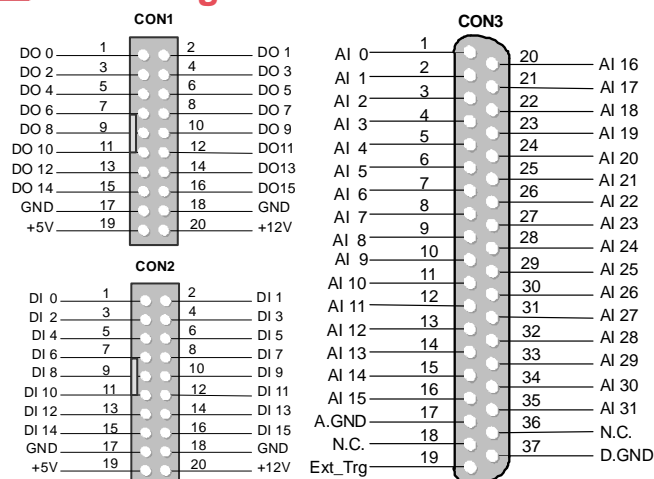
### Software

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

### Hardware Specifications

Models	PCI-1002LU	PCI-1002HU
<b>Analog Input</b>		
Channels	32 S.E/16 Diff.	
Resolution	12-bit	
Accuracy	0.01% of FSR $\pm$ 2 LSB @ 25 °C, $\pm$ 10 V	
Sampling Rate	110 kS/s	44 kS/s
<b>Digital Input</b>		
Channels	16-ch, 5 V/TTL	
Input Voltage	Logic 0: 0.8 V max., Logic 1: 2.0 V min.	
Response Speed	1.0 MHz (Typical)	
<b>Digital Output</b>		
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	1.0 MHz (Typical)	
<b>General</b>		
Bus Type	Universal PCI, 3.3 V and 5 V, 33 MHz, 32-bit, Plug and Play	
Connectors	Female DB-37 x1 20-pin box header x 2	
Power Consumption	960 mA @ +5 V	
Operating Temperature	0 °C ~ +60 °C	
Storage Temperature	-20 °C ~ +70 °C	
Humidity	5 ~ 85% RH, non-condensing	

### Pin Assignments



### Ordering Information

PCI-1002LU CR	Universal PCI, 32-ch, 12-bit, 110 kS/s. Low Gain Multi-function DAQ Board. (RoHS) Includes one CA-4002 D-Sub connector.
PCI-1002HU CR	Universal PCI, 32-ch, 12-bit, 44 kS/s. High Gain Multi-function DAQ Board. (RoHS) Includes one CA-4002 D-Sub connector.