



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
- 12-bit, 110 or 44 kS/s A/D converter
- 32 S.E./16 Diff. analog inputs
- Internal/External trigger
- 16-ch 5 V TTL D/I
- 16-ch 5 V TTL D/O
- D/I with pull-high and pull-low function
- Drop-in replacement for the PCI-1002L/1002H

Introduction

The PCI-1002LU/PCI-1002HU cards are the new generation product that ICP DAS provides to meet RoHS compliance requirement and is designed as completely compatible with the PCI-1002L/H. Users can replace the PCI-1002L/PCI-1002H by the PCI-1002LU/PCI-1002HU directly without software/driver modification.

The PCI-1002LU/PCI-1002HU supports 3.3 V/5 V PCI bus. These cards are 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, 16 digital output channels and the pull-high/pull-low resistors allow the DI status to be specified when the DI channels are unconnected; the DI status will remain in high or low status other than floating.

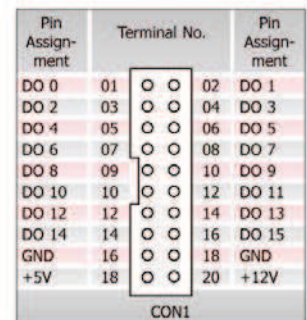
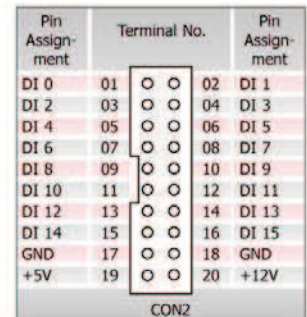
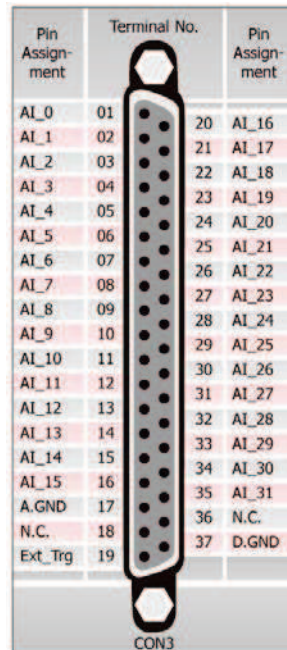
Software

- DOS Lib and BC sample program (with source codes)
- VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB sample programs with source codes
- DLL and OCX SDK for 32-bit/64-bit Windows XP/2003/Vista/2008/7/8
- Support LabVIEW and Linux

Hardware Specifications

Models	PCI-1002LU	PCI-1002HU
Analog Input		
Channels	12-bit, 32 S.E./16 Diff.	
Accuracy	0.01% of FSR \pm 1 LSB @ 25 °C, \pm 10 V	
FIFO Size	-	
Sampling Rate	110 kS/s	44 kS/s
Digital I/O		
Channels	D/I: 16-ch, 5 V/TTL D/O: 16-ch, 5 V/TTL	
Input Voltage	Logic 0: 0.8 V max., Logic 1: 2.0 V min.	
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)	
Timer/Counter		
Channels	16-bit, 3-ch	
Input Frequency	10 MHz max.	
Reference Clock	Internal: 4 MHz	
General		
Bus Type	3.3 V/ 5 V Universal PCI, 32-bit, 33 MHz	
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.