

PISO-813U

Available soon

Universal PCI, 32-ch 12-bit, 10 kS/s Isolated A/D Board



Features ▶▶▶

- Universal PCI (3.3 V/5 V) interface, Plug & Play
- 10 kS/s A/D converter
- 3750 V_{rms} bus isolation protection
- Built-in DC/DC converter with 3000 V_{DC} protection
- Supports Card ID (SMD Switch)
- 12-bit, 32 S.E. analog inputs
- A/D trigger: software trigger
- Bipolar input: ± 0.625 V, ± 1.25 V, ± 2.5 V, ± 5 V, ± 10 V
- Unipolar input: 0~0.625 V, 0~1.25 V, 0~2.5 V, 0~5 V, 0~10V
- Programmable gain control: 1, 2, 4, 8, 16

Introduction

The PISO-813U card is the new generation product that ICP DAS provides to meet RoHS compliance requirement. The new PISO-813U card is designed as a drop-in replacement for the PISO-813, and users can replace the PISO-813 by the PISO-813U directly without software/driver modification.

The PISO-813 series card is bus-typed isolated A/D board for IBM or compatible PC. The PISO-813U universal PCI card supports 3.3 V/5 V PCI bus while the PISO-813 supports 5 V PCI bus. They feature 12-bit 32 single-ended analog inputs, 3750 V_{rms} bus-typed isolation protection and 10 kS/s data acquisition under DOS and Windows. It is the most cost effective isolated A/D board for the universal PCI/PCI Bus in the world.

The PISO-813U also adds a Card ID switch on-board. Users can set Card ID and then recognizes the board by the ID via software when using two or more PISO-813U cards in one computer.

Software

Driver

- 32/64-bit Windows XP/2003/2008/Vista/7/8 Linux DASyLab

Sample Programs

- DOS Lib and TC/BC/MSC demo LabVIEW toolkit
 VB/VC/Delphi/BCB/VB.NET/C#.NET/VC.NET/MATLAB demo

Hardware Specifications

Analog Input	
Isolation Voltage	3750 V _{rms} (Bus Type)
Channels	32 S.E.
A/D Converter	12-bit, 8 μs Conversion time
FIFO Size	-
Accuracy	0.01% of FSR ± 1 LSB @ 25 °C, ± 10 V
Sampling Rate	10 kS/s
Input Impedance	10 MΩ/6 pF
Trigger Modes	Software
Data Transfer	Polling
General	
Bus Type	3.3 V/5 V Universal PCI, 32-bit, 33 MHz
Card ID	Yes (4-bit)
Connectors	Female DB-37 x 1
Power Consumption	850 mA @ +5 V
Operating Temperature	0 °C ~ +60 °C
Humidity	5 ~ 85% RH, non-condensing

Pin Assignments

Pin Assignment	Terminal No.	Pin Assignment
AI_0	01	20 AI_1
AI_2	02	21 AI_3
AI_4	03	22 AI_5
AI_6	04	23 AI_7
AI_8	05	24 AI_9
AI_10	06	25 AI_11
AI_12	07	26 AI_13
AI_14	08	27 AI_15
A.GND	09	28 A.GND
A.GND	10	29 A.GND
AI_16	11	30 AI_17
AI_18	12	31 AI_19
AI_20	13	32 AI_21
AI_22	14	33 AI_23
AI_24	15	34 AI_25
AI_26	16	35 AI_27
AI_28	17	36 AI_29
AI_30	18	37 AI_31
A.GND	19	

Ordering Information

PISO-813U CR	Universal PCI, 12-bit, 10 kS/s. 32-ch isolated analog input Board (RoHS) Includes one CA-4002 D-Sub connector.
--------------	---