

PISO-ENCODER300U

PCI Bus, 3-axis Encoder Input Card



3

PC-based Solutions

Features:

- Universal PCI bus
- 3-axis encoder counter
- True 32-bit counter
- Maximum Counting Rate: 1 MHz
- Third-order internal digital filter
- Counting Mode: Quadrant, CW/CCW, PULSE/DIR
- A+, A-, B+, B-, C+, C- inputs
- Programmable reset counter function
- Index (C channel) reset counter function
- Hardware reset (HR1 ~ HR6), reset counter function
- 68-pin SCSI-II connector

Introduction:

The **PISO-ENCODER300U** contains a **3-axis** encoder counter and each axis has a 32-bit, true counter with a maximum counting rate of 1 MHz. The counting mode can be selected from three types: 1. Quadrant mode, 2. CW/CCW mode, and 3. PULSE/DIR mode. There are also three kinds of counter reset modes provided: 1. Register Reset, 2. Index Reset, and 3. Hardware Reset. The "Index Reset" mode resets by using a C+/C- channel, which will reset the counter on each revolution. The "Hardware Reset" mode resets the counter using an external pin (HR1 ~ HR6). The HR1 ~ HR6 pins can also be used as digital input.

The **PISO-ENCODER300U** also provides 8-ch digital outputs. 2500 Vrms photo-couplers are used to isolate the digital I/O to prevent high voltages from affecting the system. Device drivers and function libraries for DOS, Windows 7 and Windows XP/2000 are provided.

Specifications:

Number of Axes	3
Slot Interface	Universal PCI bus
Resolution	32-bit
Encoder Mode	Quadrant, CW/CCW, PULSE/DIR
Maximum Counting Rate	1 MHz
Digital Output Channels	8
I/O Isolation	2500 Vrms optical isolation
Connector	68-pin SCSI-II female connector
Power Consumption	+5 V @ 500 mA
Environmental	
Operating Temperature	0 ~ +60°C
Storage Temperature	-20 ~ +80°C
Ambient Relative Humidity	0 ~ 90% RH, non-condensing
Dimensions	120.4 mm x 90.8 mm

Software Support:

Windows Driver/DLL/Lib	Windows 7 32/64-bit Windows XP/2000 32-bit
DOS Library	DOS 6.2
Labview Development Kit	Labview 8.5 and above
Linux Library	-

Ordering Information/Accessories:

Model No.	Description
PISO-ENCODER300U CR	Universal PCI Bus 3-axis Encoder Input Card (RoHS) Includes: CA-SC68, SCSI-II 68-pin Male Connector (Solder Type) with Cover
DN-68 CR	Encoder Input Board for PISO-ENCODER300U / PISO-ENCODER600U