# PISO-PS300U

PCI Bus, 3-axis Stepper Motor/Servo Control Card
(Limited Functions and Economical)
(Not Recommended for New Design)

## Features

- Universal PCI Bus
- 3-axis pulse command servo motor board
- Embedded CPU
- Max. Pulse Rate: 1 MHz
- 3-axis linear interpolation, circular interpolation
- Programmable trapezoidal speed profile
- Programmable DDA cycle
- Hardware emergency stop
- Drivers for DOS, Windows XP/2000 and Windows 7
- 8 DI, 7 DO channels

## Introduction

The **PISO-PS300U** is a 3-axis pulse command, servo motor control board. The embedded CPU of the PISO-PS300U performs the motion commands transferred from a Host PC via a 2 KB FIFO buffer. It also sends the position and status to the Host PC via a second 2 KB FIFO buffer. These buffers provide time buffer and they are very suitable for Windows operating systems. Device drivers and function libraries for DOS, Windows 7 and Windows XP/2000 are provided.

## Software Support

| Windows Driver/DLL/Lib | Windows 7/XP/2000 32-bit only |
|---|---|
| DOS Library | DOS 6.2 |
| Labview Development Kit | - |
| Linux Library | - |

## Specifications

| Model | PISO-PS300U |
|---|---|
| **General** | |
| Number of Axes | 3 |
| Slot Interface | Universal PCI bus |
| Pulse Output Rate | 1 MHz (Max.) |
| Command Type | Pulse Command |
| Resolution | 32-bit |
| Pulse Output Mode | CW/CCW, PULSE/DIR |
| Operation Mode | Semi-closed Loop |
| Linear Interpolation | Any 2 to 3 of 3 axes |
| Circular Interpolation | Any 2 axes |
| Speed Curve Profile | T-curve |
| Synchronous Action | - |
| Ring Counter Mode | - |
| Position Control Mode | Incremental mode |
| Position Compare Trigger | - |
| Encoder Interface | A/B phase, CW/CCW, PULSE/DIR |
| Encoder Counter | 32-bit |

| Model | PISO-PS300U |
|---|---|
| Encoder Counting Rate | 1 MHz (Max.) |
| I/O Isolation | 2500 Vrms optical isolation |
| Connector | 9-pin male and 25-pin female D-Sub |
| **Motion Relative I/O** | |
| Mechanical Switch Input | Home, forward, backward limit, EMG |
| Servo I/O Interface | Output: SVON |
| **Digital Input** | |
| Digital Input Channels | 8 |
| **Digital Output** | |
| Digital Output Channels | 7 |
| **Power** | |
| Power Consumption | +5 V @ 950 mA |
| **Environmental** | |
| Operating Temperature | 0 ~ +60°C |
| Storage Temperature | -20 ~ +70°C |
| Ambient Relative Humidity | 0 ~ 90% RH, non-condensing |

## Ordering Information

| PISO-PS300U CR | Universal PCI Bus, 3-axis Stepper Motor/Servo Control Card (Limited Functions and Economical) Includes:<br>CA-9-2502 (9-pin Male and 25-pin Female D-Sub Cable, Length 0.2 M)<br>CA-PC09F (9-pin Female D-Sub Connector with Plastic Cover)<br>CA-PC09M (9-pin Male D-Sub Connector with Plastic Cover)<br>CA-PC25M (25-pin Male D-Sub Connector with Plastic Cover) |
|---|---|

## Accessories

| DB-8R | Relay Board for SERVO-300 and PISO-PS300U |
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