



PISO-PS300U

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

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.

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

Ordering Information

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

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



Software Support

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

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