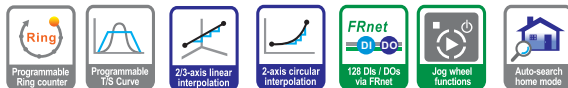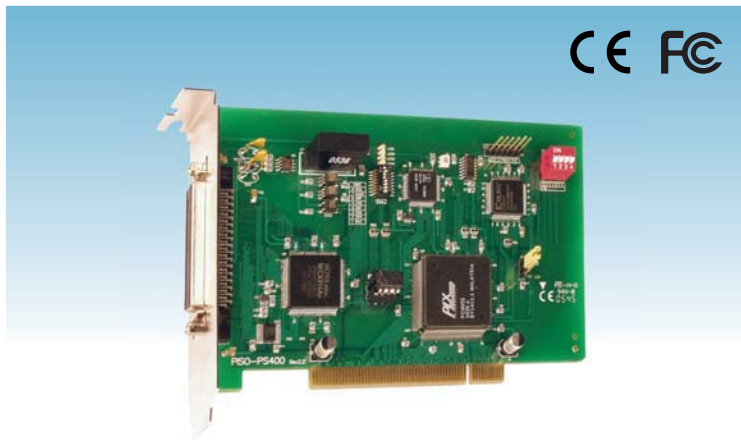# PISO-PS400 High Speed 4-Axis Motion Control Card

Features:
- Independent 4-axis motion control
- Support for hand wheel and jog functions
- 4-steps home modes with auto-searching
- 2/3-axis linear interpolation function
- 2-axis circular interpolation function
- Programmable T/S-curve acceleration and deceleration
- Programmable ring counter
- Expandable distributed I/O: 128 DI & 128 DO Via two-wired FRnet interface.

Applications:
- X-Y-Z Table
- Fix-Pitch Stamping Machine
- Transfer Machine
- Spinner
- Load/Unload

Ring Programmable Ring counter	Programmable T/S Curve	2/3-axis linear interpolation	2-axis circular interpolation	FRnet DI-DO 128 DIs / DOs via FRnet	Jog wheel functions	Auto-search home mode

Introduction:

The PISO-PS400 is a 4-axis stepping/pulse-type servo motor control card that can be used on any IPC with 5V PCI bus, and is suitable for general-purpose motion applications. This card also contains one port of FRnet which allows IPC to expand its fast remote I/O easily. This two-wired FRnet can have maximum 128 DI and 128 DO, and they are automatically scanned with a period of 2.88 ms. PISO-PS400 contains a high-performance motion ASIC. Apart from a wide speed range, this intelligent motion controller also has a variety of motion control functions built in, such as 2/3- axis linear interpolation, 2-axis circular interpolation, T/S-curve acceleration/deceleration, various synchronous actions, automatic homing, and others. In addition, most of the PISO-PS400 motion control functions are performed with little load on the processor. The motion status, FRnet I/O, and the other I/O cards on IPC can still be monitored while driving. As a result of the low CPU loading requirements of the PISO-PS400, one or more motion cards can be used on a single IPC. ICP DAS has also provided a variety of functions and examples to reduce the need for programming by users, making it a highly cost-effective solution for motion builders.

Specifications:
- 4 controllable axes
- Maximum Pulse output frequency 4Mpps
- 32-bits up/down counter range -2,147,483,648 ~ +2,147,483,647
- Acceleration/deceleration range
  $125 \sim 1 \times 10^6$ PPS/S ; $62.5 \times 10^3 \sim 500 \times 10^6$ PPS/S
- Input/Output Signals for each axis
- All I/O signal are optically isolated 2500Vrms
- Command Pulse output pins ±N and ±P
- Encoder signals input pins ±A and ±B
- Encoder index signal input pins ±Z
- Mechanical signal input pins ±LMT, HOME and NHOME
- Servo-motor interface I/O pins INP, ALAM and SRV_ON Servo ON
- Manual pulse generator signal input pin ±EXP
- Connectors 68-pins SCSI-type connector
- Operating Temp -20 ~ + 75°C
- Storage Temp -30 ~ +85°C
- Operating Humidity 10 ~ 85% non-condensing
- Storage Humidity 5 ~ 90% non-condensing
- External Power supply(Input) 24V DC (connect to terminal board)

Software supported :
- Driver supports for Windows XP/2K
- Programming Tools: VC/VB/BCB

Ordering Information:

Model No.	Product Description
PISO-PS400	4-axis motion control module
DN-8468GB	The daughter board for General Purpose
DN-8468DB	The daughter board for Delta ASDA A Amplifier.
DN-8468MB	The daughter board for Mitsubishi J2S Amplifier.
DN-8468PB	The daughter board for Panasonic MINAS A Amplifier.
DN-8468YB	The daughter board for Yaskawa Sigma II Amplifier.
DN-8468FB	The daughter board For FUJI FALDIC-W servo Amplifier.
CA-SCSI15	68-pin SCSI-II cable, length: 1.5 m
CA-SCSI30	68-pin SCSI-II cable, length:3 m
CA-SCSI50	68-pin SCSI-II cable, length:5 m
CA-2P4C-0100	The cable for FRNet modules; Length:100m

Note: You may choose these terminal boards depending on your original motors and drivers. Moreover, we also provide plenty of cables for you. Please see the last chapter-Accessories.

PAC
I8K Module
Vision Box
Industrial Camera
PCI Control Card
Remote Control
Remote I/O
Acessories