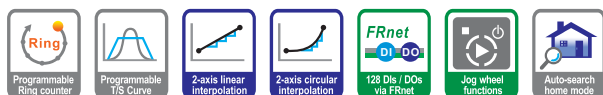# I-8094-G High Speed 4-Axis Motion Control Module

Advantages & Features:

- Independent 4-axis motion control
- Support for hand wheel and jog functions
- 4-steps home modes with auto searching
- 2/3-axes linear Interpolation function
- 2-axes circular interpolation function
- Programmable T/S-curve acceleration and deceleration
- Programmable ring counter
- Work on a PAC: Wincon, WinPAC & I-8000

Applications:

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

PAC

I8K Module

Vision Box

Industrial Camera

PCI Control Card

Remote Control

Remote I/O

Accessories

Introduction:

The i-8094 is a 4-axis pulse-type stepping/servo motor control module that can be used on any of the ICP DAS I- 8000, Wincon and WinPAC series controllers, and is suitable for general-purpose motion applications. Apart from a wide range of speed, this intelligent motion controller also has a variety of built-in motion control functions, such as 2/3- axes linear interpolation, 2-axes circular interpolation, T/S-curve acceleration/deceleration, various synchronous actions, automatic homing, and so on. In addition, most of the i-8094 motion control functions are performed with little load on the processor. While driving the motors, the motion status and the other I/O status on the i-8000, Wincon or WinPAC modules can still be monitored. As a result of the low CPU loading requirements of the i-8094, one or more motion modules may be used on a single i-8000, Wincon or WinPAC controller. ICP DAS has also provided a wide range of functions and examples to reduce the need for programming by users, making it a highly cost-effective solution for motion builders.

Specifications:

- 4-Axis Motion Control
- Maximum Pulse output frequency 4Mpps
- 32-bits up/down counter range
  -2,147,483,648 ~ +2,147,483,647
- Acceleration/deceleration range
  125 ~ 1 x 10^6 PPS/S ; 62.5×10^3 ~ 500 x 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 support:

- Development software: Win CE eVC/VC.net/VB.net
- MiniOS7 TC3.0/MSC/BC3.0
- EzGo assists the motion system developer to debug any wiring problem, and provides the programming code.

Ordering Information:

Model No.	Product Description
i-8094-G	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

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.