

I-8094A-G High Speed 4-Axis Motion Control Module with CPU inside

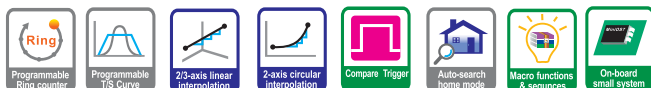


Advantages & Features:

- ➔ I-8094A = Small system + MiniOS7 (DOS like OS) + I-8094 (4-axis motion control module)
- ➔ On board CPU + On board SRAM: 512KB + On board EEPROM: 512KB
- ➔ 4-step home modes with auto searching
- ➔ 2-axis position compare trigger output
- ➔ Support Macro Function and Macro Sequence
- ➔ Integration Develop Environment
- ➔ Programmable ring counter
- ➔ Work on a PAC: Wincon

Applications:

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



Introduction:

The i-8094A is a 4-axis pulse-type stepping/servo motor control module that can be used on any of the ICPDAS Wincon series controllers, and is suitable for general-purpose motion applications. This module features a built-in 80186 CPU for further process, and the other parts of the module are just identical to the i-8094 itself. This CPU let this module be able to do motion without a PAC. When working with a PAC, it also allows users to add additional functions by calling user-defined subroutines (macro functions). Therefore, users can build their special know-how inside this module. i-8094A module contains a high-performance motion ASIC. 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- axis linear interpolation, 2-axis circular interpolation, T/S-curve acceleration/deceleration, various synchronous actions, automatic homing, and so on. In addition, most of the i-8094A 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 Wincon modules, can still be monitored. As a result of the low CPU loading requirements of the i-8094A, one or more motion modules may be used on a single Wincon controller. 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-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 10⁶ PPS/S ; 62.5x10³ ~ 500 x 10⁶ PPS/S
- ➔ Input/Output Signals for each axis
- ➔ All I/O signal are optically isolated 2500Vrms
- ➔ Command Pulse output pins $\pm N$ and $\pm P$
- ➔ Encoder signals input pins $\pm A$ and $\pm B$
- ➔ Encoder index signal input pins $\pm Z$
- ➔ Mechanical signal input pins
- ➔ $\pm LMT$, HOME and NHOME
Servo-motor interface I/O pins
- ➔ INP, ALAM and SRV_ON Servo ON
- ➔ Manual pulse generator signal input pin $\pm EXP$
- ➔ 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:

- ➔ Driver supports for Win CE
- ➔ eVC++ is a recommended programming tool
- ➔ Macro-Program Tool EzMake

Ordering Information:

| Model No. | Product Description |
|------------|--|
| i8094A | 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-SCSI150 | 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.