

MC 206 Motion Coordinator

TRIO MC206運動控制器

採用高效能32-bit DSP技術，提供優異的計算速度，應用彈性度及產品擴充性。

MC206為四軸步進/伺服控制器，並能連接外部 Encoder 作跟隨運動，FPGA技術能有效降低控制器尺寸。

MC206具有彈性的擴充槽介面，能插入各種不同功能的Daughter Board，例如第五軸控制卡，或乙太網路通訊卡..等。Motion Perfect程式開發軟體，可將Multi-tasking BASIC 語言寫入控制器中，程式撰寫容易且功能強大。

複雜的運動控制像是凸輪 (Cams) 齒輪 (Gears) 連桿軸 (Linked Axes) 模擬及補間 (Interpolation) 運動皆能輕易完成。

MC206具有16點光隔離數位I/O (8in, 8雙向I/O) 具有高速觸動紀錄位置功能，應用於像是CCD檢測、印刷及包裝產線上高精度控制的領域。藉由數位及類比擴充模組，I/O點數能輕易擴充。MC206能提供多樣的通訊介面，具有2組RS-232串列埠，及RS-485TTL串列埠，USB埠及CANbus通訊介面。



程式記憶棒，可使機台程式複製及維修更為簡單便利。



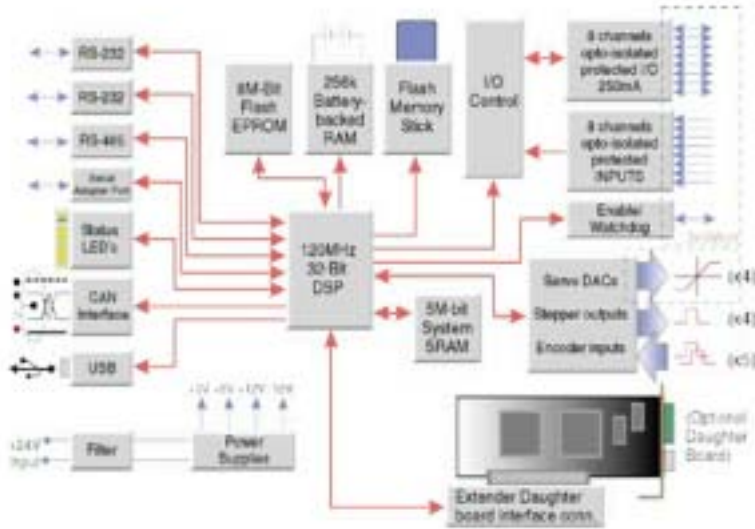
➢120MHz 32-bit DSP處理器

➢USB控制介面

➢Multi-Tasking BASIC語言，程式撰寫容易，功能強大

➢FPGA技術，有效降低控制器尺寸

➢彈性的擴充槽介面，有多種Daughter Board可供選購



MC206可任意組合控制1-4步進或伺服軸，MC206基本型 式可控制單軸步進或伺服，若需增加軸數可依實際需求 增購。步進或伺服軸FTC碼（Feature Encoder Code）另外，MC206也可透過Daughter Board 擴充為5軸控制器。

MC206特性及規格

Size: 107mm(H) x 182mm(W) x 53mm(D)
 Mounting: Compact DIN-rail mounting box
 Weight: 325g
 Operating Temp.: 0 to 45 degrees C
 Control Inputs: Forward/Reverse Limit, Datum, Feedhold
 Communications Ports: (2) RS-232 port 1200-38400 baud, (1) RS-485 port, (1) Serial adapter port, (1) USB 12Mbit, (1) CAN channel 1Mbaud
 Position Resolution: 32-bit position count
 Interpolation Modes: 1-5 axes (8 axes with optional SERCOS Daughter Board)
 Linear, Circular, Helical, CAM profiles, speed control, electronic gearboxes
 Programming: Pre-emptive multi-tasking Trio BASIC, maximum of 8 tasks (including command line interface)
 Speed Resolution: 32 bits. Speed/Accel/Decel may be changed at any time. Moves may be merged for continuous contoured motion
 Servo Cycle: 250usec minimum for all axes, 1msec default
 Memory: 256k battery-backed user memory. Entire contents may be flashed to EPROM
 Memory Stick: Flash memory for program and project transfers to other MC206 controllers
 Power Input: 24Vdc @ 600mA
 Amplifier Enable Output: N.O. relay contact rated 24Vdc @250mA
 Digital Inputs: (8) 24Vdc opto-isolated
 Hardware Registration: (5) high-speed position latched inputs (3usec)
 Digital Outputs: (8) 24Vdc opto-isolated sourcing, 250mA each
 Encoder Inputs: (5) with 6MHz edge rate
 Analog Input: (1) 10-bit 0-10Vdc general purpose
 Analog Outputs: (4) 16-bit +/-10Vdc for servo command or general purpose
 Stepper Outputs: (4) Differential Step outputs, 2MHz maximum rate
 Direction Outputs: (4) Differential outputs
 LED indicators: Power, Status, (8) user programmable I/O statu
 Connections: Screw terminals, 9-pin D-shell (female)

Flexible Motion Control

- Interpolation up to 8 axes
- Circular Interpolation
- Helical Interpolation
- Cam Profiles
- Software Gearboxes
- Linked Movement
- Axis Superimposition
- Imaginary Axes
- Hardware Registration

Any Axis can run any move type

Trio Daughter Boards:

- P200 - Servo with Encoder
- P210 - Servo with Resolver
- P220 - Reference Encoder
- P230 - Stepper Output
- P240 - Stepper with Encoder
- P242 - Hardware PSWITCH
- P260 - Analog Output
- P270 - SSI Absolute Servo
- P280 - Differential Stepper
- P290 - (4)-axis CAN/CANopen
- P291 - SERCOS
- P295 - USB port
- P296 - Ethernet
- P297 - Profibus DP

Versatile Communications

- Two RS-232 ports
- One RS-485 port
- One serial adapter port
- Ethernet** comms (with optional daughter board)
- Modbus** comms
- DeviceNET** comms
- Profibus** comms (with optional daughter board)
- Fibre-Optic** port with adapter connector to other Motion Coordinators and Operator Keypad

EMC Compliant

- BS EN61000-6-2 (1999) Industrial noise immunity.
- BS EN55022 (1995) Industrial noise emissions.

Ordering Information

Product code: P135