

# Contrôleur multi-axes MC206X Trio Motion

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## Accessories

P390 Additional Servo Axis  
 P393 Additional Reference Encoder Input  
 P395 Additional Differential Stepper Axis  
 P399 MC206X Daughter Board Adapter  
 P350 RS232 Serial Cable  
 P435 Serial to Fibre Optic Adapter  
 P315 CAN 16-I/O  
 P325 CAN 8 Analogue Inputs  
 Pxxx All Daughter Boards

DIN rail mount

**The MC206X Motion Coordinator is based on Trio's high-performance 32-bit floating point DSP technology, providing exceptionally fast computational speed, flexibility, and connectivity.**

Advanced FPGA techniques enable 4 axes of stepper and servo circuitry plus a master encoder input to be enclosed in a compact DIN-rail mounted package.

An expansion connector is incorporated to add a fifth axis or any other optional Daughter Boards. Up to 8 axes may be provided using a SERCOS Daughter Board.

User programs are written in Trio's established multi-tasking BASIC language using the powerful *Motion Perfect* application development software.

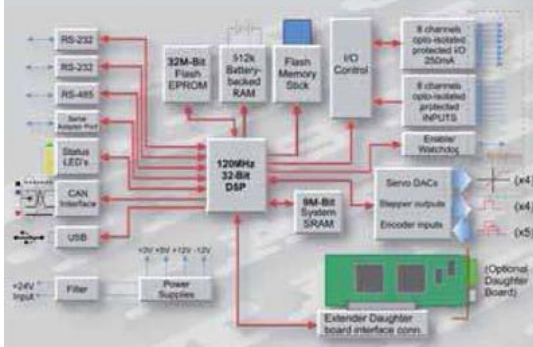
Complex motion such as cams, gears, linked axes, and interpolation is made easy with Trio's comprehensive BASIC command set.

The MC206X has 16 opto-isolated 24V digital I/O (8 in, 8 bi-directional) built-in. Fast high speed hardware registration inputs are available for each axis where highly accurate control is required for applications such as print and packaging lines.

The I/O count can be expanded using Trio's remote I/O system with both digital and analogue modules.

Trio's MC206X offers wide communications capability with 2 RS-232 serial ports, 1 RS-485 port, 1 TTL serial port, 1 USB port and 1 CAN channel as standard.

An adaptor is available to convert the TTL port to Trio's fibre-optic network for adding Trio HMIs.



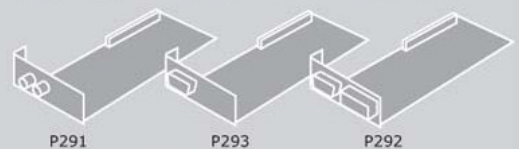
## Axis Configuration (without SERCOS / CAN or SLM)

|                 |  |
|-----------------|--|
| <b>Axis 0</b>   | stepper / servo / encoder  |
| <b>Axis 1</b>   | stepper / servo / encoder  |
| <b>Axis 2</b>   | stepper / servo / encoder  |
| <b>Axis 3</b>   | stepper / servo / encoder  |
| <b>Axis 4</b>   | encoder only   |
| <b>Axis 5</b>   | Added by use of an axis option board fitted to intelligent option slot |
| <b>Axis 6/7</b> | virtual  |

The MC206X has 8 available axes which can be assigned to the built in hardware or one of the 3 available digital drive networks by means of the appropriate daughter board option. Each board is capable of driving different numbers of axes. Any un-allocated axes can be assigned to the built in hardware or used as virtual axes.

When used with the MC206X, the different digital drive network daughter boards can have the following number of axes:

| Sercos                        | CAN                           | SLM                          |
|-------------------------------|-------------------------------|------------------------------|
| Up to 8 axes*<br>(2 Standard) | Up to 4 axes*<br>(2 Standard) | Up to 3 axes<br>(3 Standard) |



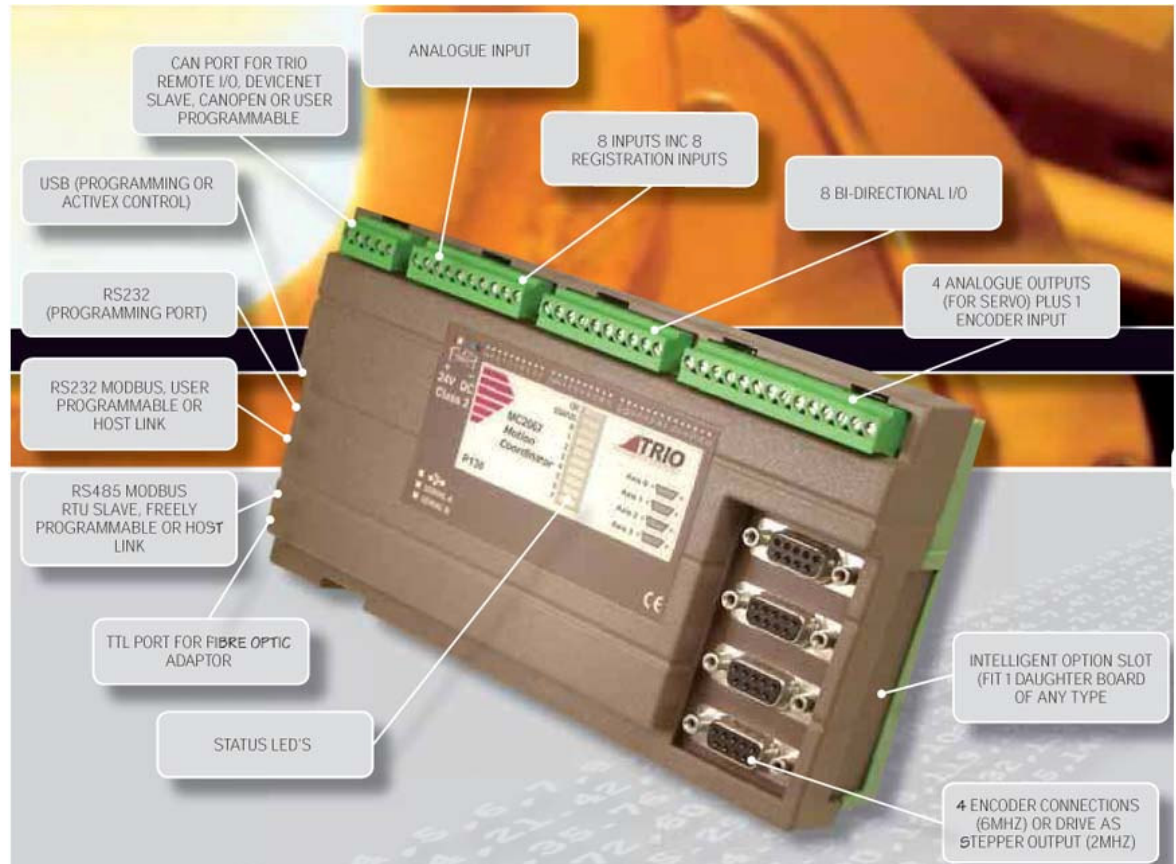
\*Extra axes added by P701, P702 and P704

## Multi-tasking

- 7 simultaneous BASIC tasks

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### Feature Enable Codes

The MC206X is supplied as standard with axis 0 (servo or stepper) and axis 4 (encoder input) enabled. Software "Feature Enable Codes" can be purchased and then entered using *Motion Perfect* to enable axis 1, 2 and 3 for either servo or stepper operation. No extra hardware is required to update these additional axes.

### Fieldbus Communication Options

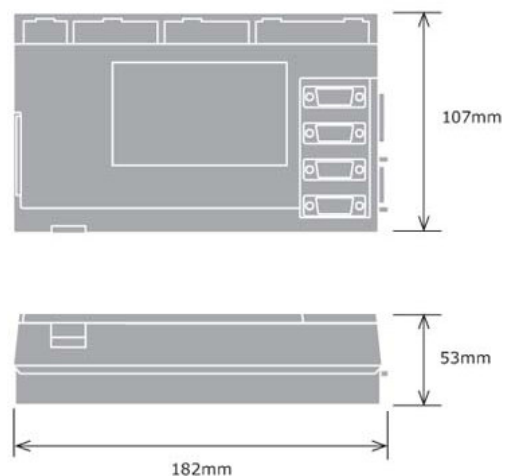
|                    |  |
|--------------------|--|
| <b>CAN</b>         | Trio remote I/O, CANopen I/O, DeviceNet slave or user programmable |
| <b>RS232</b>       | Modbus RTU slave, Hostlink or user programmable†                   |
| <b>RS485</b>       | Modbus RTU slave, Hostlink or user programmable†                   |
| <b>Option Slot</b> | Profibus, CANbus, Ethernet or Ethernet IP                          |

†Only 1 instance of a protocol can be used at a time.  
Option slot is limited to one daughter board.

### I/O Capability

- 8 inputs and 8 bi-directional channels
- 1 x 10 bit 0-10V analogue input
- Expandable to 256 bi-directional channels and 32 analogue inputs.

### Overall Dimensions





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