

**Accessories:**

P350 RS232 Serial Cable  
P317, P318, P319, P326, P327 CAN Modules

DIN-RAIL MOUNT

PRODUCT CODE: P192

# MC302X

The Trio MC302X *Motion Coordinator* is a compact DIN-rail mounted motion controller based on Trio's latest ARM processor technology.

The MC302X has been designed to provide a compact, cost effective solution for OEM applications. The unit features two axes, the first of which can be configured in software for either servo (with encoder feedback) or stepper control.

The second axis may be either a reference encoder or a stepper axis. The differential line driver stepper outputs can be configured for simulated quadrature encoder outputs to synchronise multiple units. Built-in registration facilities make the MC302X ideal for Flying Shears, Winders, and high-speed Labellers.

The MC302X is programmed using TrioBASIC which features true pre-emptive multi-tasking of up to 3 simultaneous tasks. Parts of a complex application can therefore be developed, tested and run independently, although the tasks can share data and motion control hardware.

### MULTI-TASKING

- 3 simultaneous TrioBASIC tasks

Each axis may run moves using linear or circular interpolation, electronic cams and gearboxes. Support is provided for continuously rotating machinery and two of the inputs may be configured for accurate hardware registration.

### AVAILABLE AXIS CONFIGURATION

Axis 0	stepper / servo / encoder
Axis 1	stepper / encoder
Axis 2	virtual

The MC302X has an RS232 programming port, and a user selectable RS232/485 port for peripherals such as an HMI.

### FIELDBUS COMMUNICATION OPTIONS

CAN	TrioCAN I/O, DeviceNet slave, CANopen or user programmable
RS232 / 485	Modbus-RTU slave, Hostlink or user programmable

The MC302X has 8 opto-isolated 24V digital I/O built-in (4 in, 4 bi-directional). These may be used as general purpose I/O or may be defined to be used by the controller for high speed registration, end of travel limits, datuming and feedhold functions as required.

The I/O count can be expanded using Trio's CAN I/O system via the on board CAN port up to a maximum of 256 digital, 32 analogue input and 16 analogue output channels.

### I/O CAPABILITY

- 4 24V dc inputs and 4 24V dc bi-directional channels
- Expandable to 256 I/O channels and 32/16 analogue I/O channels using the P317, P318, P319, P326 and P327 modules

CAN PORT FOR TRIO CAN I/O, DEVICENET SLAVE, CANOPEN OR USER PROGRAMMABLE

4 DIGITAL INPUTS INCLUDING 2 X REGISTRATION INPUTS AND 4 BI-DIRECTIONAL I/O + VOLTAGE OUTPUT AND ENABLE RELAY

STATUS LEDS

DIN-RAIL MOUNTING

RS232 PROGRAMMING PORT

RS232 / RS485 MODBUS-RTU SLAVE, HOSTLINK OR USER PROGRAMMABLE

2 ENCODER CONNECTIONS (6MHZ) OR DRIVE AS STEPPER OUTPUTS (2MHZ)

