

Contrôleur multi-axes

MC302X TRIO

The Trio MC302X 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. The built-in registration facilities make the MC302X ideal for Flying Shears, Winders, and high-speed Labellers.

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

Available Axis Configuration

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

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.

The MC302X has 8 opto-isolated 24V digital I/O (4 in, 4 bi-directional) built-in. 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 remote I/O system via the on board CAN channel up to a maximum of 256 digital and 32 analogue input channels.

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

Built-in Communication Options

CAN	Trio remote I/O, DeviceNet slave, user programmable or CANopen
RS232 / 485	Modbus RTU slave, or user programmable

I/O Capability

- 4 inputs and 4 bi-directional channels
- Remote I/O expandable to 256 bi-directional channels and 32 analogue inputs.

Multi-tasking

- 3 simultaneous BASIC tasks

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