

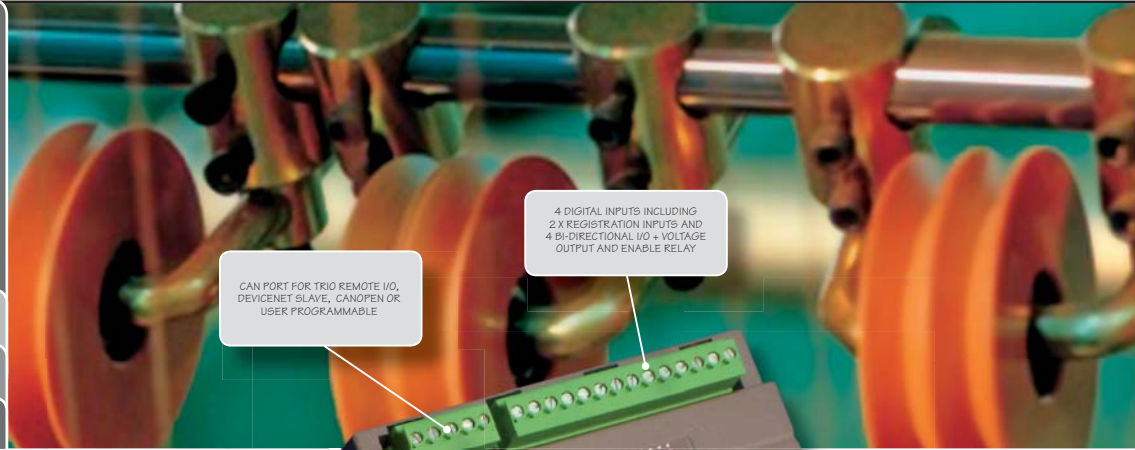
Accessories  
 P350 RS232 Serial Cable  
 P315 CAN 16-I/O  
 P325 CAN 8 Analogue Inputs

MOTION COORDINATOR

DIN RAIL MOUNT

PRODUCT CODE: P192

# MC302X



CAN PORT FOR TRIO REMOTE 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

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	
<b>Axis 0</b>	stepper / servo / encoder
<b>Axis 1</b>	stepper / encoder
<b>Axis 2</b>	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.

STATUS LED'S

DIN RAIL MOUNTING

RS232 PROGRAMMING PORT

RS232 / RS485 MODBUS OR USER PROGRAMMABLE

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

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	
<b>CAN</b>	Trio remote I/O, DeviceNet slave, user programmable or CANopen
<b>RS232 / 485</b>	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

Part Number	P192
Size	101mm x 94mm x 48mm
Weight	200g
Temperature Range	0-45 degrees Celsius
Power Consumption	24V @ 150mA
Maximum Number Of Axes	2 + 1 Virtual
Built In Encoder / Stepper (Line Driver) RS422 Bi-directional Port	2 @ 6Mhz (Encoder) or 2MHz (Stepper)
Built in Analogue Outputs	1 @ +/-10V 16 Bit Resolution
Servo Cycle Time	1000us, 500us, or 250us
Built In Inputs	4 x 24V Opto-Isolated
Built In Outputs	None
Built In Bi-directional I/O	4 x 24V Opto-Isolated
Built in Analogue Inputs	None
Inputs Functions	Forward Limit / Reverse Limit / Datum / F Hold
Watchdog Relay	1 Solid State - 24V @ 100mA Max Current
Serial Ports	1 RS232 (Programming) + 1 RS232 / RS485
CAN Ports	1 @ 1MBAUD max
Daughter board Slots	None
User Memory	512kbytes
Table Memory	16000 values
Multi-tasking	2 Fast Tasks + 1 Normal Task
EMC Compliance	BS EN61000-6-2 : 2001 generic noise immunity standard for industrial environment BS EN61000-6-4 : 2001 generic emission standard for light industrial environment



#### Overall Dimensions

