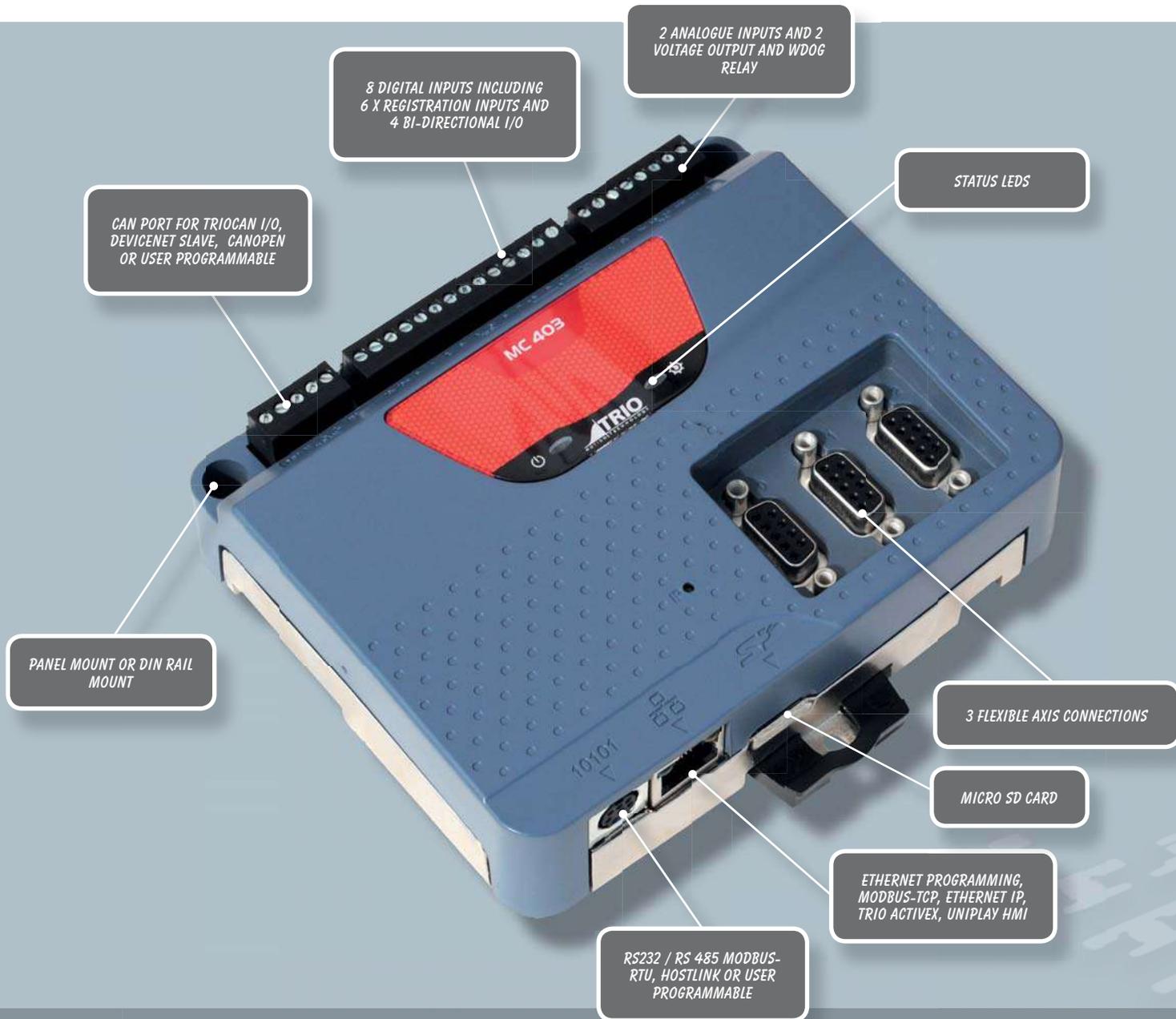


# MC403 / MC403-Z



## FEATURES

- ★ Advanced 2 Axis Closed Loop Servo / 3 Axis Pulse Direction
- ★ Linear, Circular, Helical and Spherical Interpolation
- ★ Flexible CAM shapes, Linked Motion
- ★ EnDAT and SSI Absolute Encoder Supported
- ★ Hardware Linked Outputs for Camera / Laser Control
- ★ Ethernet-IP / Modbus TCP / Ethernet Interface Built-In
- ★ 125 – 2000 $\mu$ sec Selectable Servo Update
- ★ Precise 64 bit Motion Calculations on ARM11 Processor with VFP
- ★ EC 61131-3 Programming
- ★ Multi-tasking BASIC Programming
- ★ Text File Handling
- ★ Robotic Transformations
- ★ Micro SD Memory Card Slot
- ★ CANopen I/O Expansion
- ★ RoHS, UL and CE Approved

The MC403 is a high specification *Motion Coordinator* using a high performance ARM11 processor, with three flexible axis ports and two Voltage outputs.

The flexible axis ports can be configured in software as feedback devices or pulse direction outputs. As outputs they can be used as pulse and direction with stepper or servo drives or they can operate as a simulated encoder output. When configured as feedback they can be either incremental encoder input or one of three popular absolute encoder types; SSI, Tamagawa or Endat. Any feedback axis with a Voltage output can be used to form a closed loop servo.

The built-in Ethernet port allows programming and connection of common HMI and PLC protocols directly to the MC403. User programs can be written in Trio's established multi-tasking TrioBASIC language using the powerful *Motion Perfect v3* application development software making complex motion easy. Also available as an option are the industry standard IEC 61131-3 languages allowing a fully functional PLC programming system.

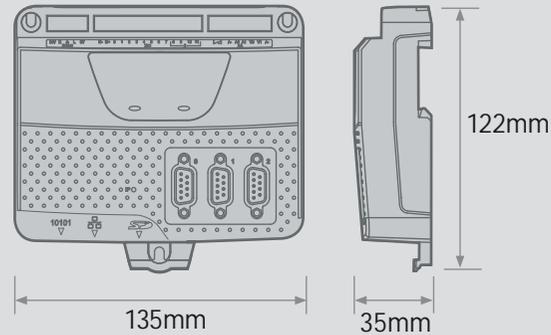
The MC403 is available in 2 model formats offering 5 different axis configurations. The entry level MC403-Z does not have a built-in DAC. All models feature a total of 8 axes in software. Any axes not assigned to built-in hardware can be used as a virtual axis. Every axis can be programmed to move using linear, circular, helical or spherical interpolation, electronic cams, linked axes and gearboxes.

Two LED's enable the controller status to be easily determined, whilst the single piece metal cast backplate provides an integrated earth chassis to improve noise rejection in the industrial environment.

**ACCESSORIES:**

- |             |                        |
|-------------|------------------------|
| P317 - P327 | CAN Modules            |
| P750        | Kinematic Runtime FEC  |
| P843 - P844 | UNIPLAY 7" & 10" HMI's |

**OVERALL DIMENSIONS:**



**MC403-Z PRODUCT OPTIONS**

	P821	P822
Axis 0	Core	Core
Axis 1	Core	Core
Axis 2		Extended

**MC403 PRODUCT OPTIONS**

	P825	P823	P824
Axis 0	Extended + AS	Core	Extended + AS
Axis 1		Core	Extended + AS
Axis 2	Core	Core	Extended

**CORE AXES** – can be configured in software as pulse and direction outputs to stepper or servo drives. They can also be configured for incremental encoder feedback or simulated encoder output.

**EXTENDED AXES** – in addition to the Core functionality these axes can also be configured for SSI, Tamagawa or EnDat absolute encoders.

**AS** - Analogue 'closed loop' Servo using built-in  $\pm 10V$  analogue output.

