

Accessories:
 P871 MC464 RTEK Interface
 P872 MC464 SERCOS II Interface
 P873 MC464 SLM Interface
 P874 MC464 FlexAxis 8 Interface
 P875 MC464 Anybus-CC Module
 P876 MC464 EtherCAT Interface
 P878 MC464 Blanking Module
 P879 MC464 FlexAxis 4 Interface
 P381 MC464 FlexAxis Splitter Cable
 P750 Kinematic Runtime FEC
 P877 IEC 61131-3 Runtime Software
 P317, P318, P319, P326, P327 CAN Modules

DIN-RAIL OR PANEL MOUNT

PRODUCT CODE: P860

MC464



BACKLIT STATUS DISPLAY

RS232 + RS485 (MODBUS-RTU, HOSTLINK OR USER PROGRAMMABLE)

ETHERNET PROGRAMMING MODBUS-TCP, PC MOTION ACTIVE X

SYNC ENCODER

SD CARD

I/O, CAN, POWER, ANALOGUE

COMMON EARTHING FOR IMPROVED NOISE REJECTION

FIRST EXPANSION MODULE

EASY RELEASE EXPANSION COVER

The MC464 is Trio's highest performance *Motion Coordinator* and is based on the 64bit 400MHz MIPS processor. The MC464 supports up to 64 axes of motion with 64 bit integer position registers for ultra precise axis resolution. With support for networked digital drives, and programming with TrioBASIC or IEC 61131-3 it saves interconnection time, increases flexibility and gives you lots more processing power.

Designed from the ground up the attention to detail is evident. The bright easy to read backlit display makes sure that controller status is easily determined, whilst the single piece metal casting provides an integrated earth chassis to improve noise rejection in the industrial environment.

MULTI-TASKING

- 20 simultaneous TrioBASIC tasks
- IEC61131-3 Runtime environment

Every axis can be programmed to move using linear, circular or helical or spherical interpolation, electronic cams and gearboxes. Features include support for merging multiple moves that are typically generated by CAD/CAM software and support is provided for continuously rotating machinery.

PROGRAMMING

- Multi-tasking TrioBASIC programmed using *Motion Perfect 2*
- TrioPC for ActiveX
- IEC61131-3 (option)
- G-Code (option)



The axis expansion modules feature many options for digital drive network interfaces, analog servo, pulse/direction, absolute or incremental feedback and accurate hardware registration.

State of the art servo performance is assured by the MC464's software design. Servo period can be set to 125, 250, 500, 1000 or 2000 microseconds to suit even the highest performance servo positioning systems. Motion that was only dreamed about a decade ago is now an everyday possibility.

ADVANTAGES OF DIGITAL DRIVE INTERFACES

- Plug & play
- Drive parameter configuration in the *Motion Coordinator*
- Monitoring parameters in real time from the *Motion Coordinator*
- Transmit data at high speeds with precise synchronisation
- Communicate with the drive using velocity, position or torque control modes (if the drive is mode supported)
- Noise resistant communications
- Reduced wiring, each connection replaces up to 11 discrete wired connections per drive
- Cuts material costs, cabinet space and build time
- Machine downtime reduced for drive changeovers

DIGITAL DRIVES SYSTEMS SUPPORTED

- EtherCAT 
- SERCOS II 
- Panasonic Real Time Express 
- Control Techniques SLM 
- Further drive types to be supported

FACTORY COMMUNICATIONS OPTIONS

- Trio I/O
- Ethernet IP
- Modbus-TCP/IP
- CANopen Master
- DeviceNet Slave
- CC-Link
- Profibus
- Profinet I/O
- Modbus-RTU



Built in Anybus technology enabling support for current and future communication networks.

BUILT-IN FIELDBUS COMMUNICATION

Anubus Module	Profibus, CANbus, CC-Link or Anybus
CAN	TrioCAN I/O, DeviceNet slave, CANopen I/O, or user programmable
RS232	Modbus-RTU slave, Hostlink or user programmable†
RS485	Modbus-RTU slave, Hostlink or user programmable†
Ethernet	Ethernet IP and Modbus-TCP, TrioPC ActiveX, Telnet

The MC464 is fully compatible with the range of CAN I/O modules from Trio as well as some third party I/O modules using the CANopen protocol. In addition the MC464 takes advantage of Trio's new range of remote Input/Output modules, giving the user even more flexibility when defining the digital I/O in a system.

I/O CAPABILITY

- 8 24V dc inputs and 8 24V dc bi-directional channels
- 2 x 12 bit 0-10V analogue inputs
- Expandable to 256 I/O channels and 32 analogue inputs using the new P317, P318 and P326 or the existing CAN modules; P316 and P325

Configure the MC464 for your application by connecting up to 7 half-height expansion modules or 3 full-height expansion modules.

Each module easily attaches to the controller with a new high density bus connection and a uniquely designed screw integrates the earth planes of all modules and *Motion Coordinator* together. Trio's feature enable code system for axis activation allows the whole system to be scaled exactly to your requirements.

