MC6N-ECAT EtherCAT® Master

INTRODUCTION

The MC6N is a high performance Motion Coordinator which perfectly dialogues with the R.T.A. motion control solution (AC servos and steppers).

HIGHLIGHTS

- High performance motion coordinator for remote servo and stepper drives via EtherCAT bus.

- EtherCAT amplifiers can be connected and driven in cyclic synchronous position, speed or torque modes.

- 1 GHz dual core processor controlling up to 64 axes (twice as the previous model MC4N).

- Same simple programming as the traditional analog axes, with the possibility to set up drives and process alarms over the EtherCAT bus.

- Ideal for high axes count machines or robotic applications.

METAL BACKPLATE
CAN BUS
SD CARD
ETHERNET PROGRAMMING, MODBUS-TCP, UDP, ETHERNET-IP, TRIO ACTIVEX.
RS232/RS485 MODBUS-RTU, HOSTLIN OR USER PROGRAMMABLE.
BACKLIT STATUS DISPLAY
STATUS LEDS
FLEXIBLE AXES PORT: ENCODER/STEPPER/ABSOLUTE
EtherCAT PORT
8 INPUTS AND 8 BI-DIRECTIONAL I/Os
POWER 24 VDC

RoHS CE c UL us

1st GENERATION Vs 2nd GENERATION

MC4N	MC6N
- 532 Mhz ARM11	- 1GHz dual core ARM Cortex-A7 processor
- up to 32 axes	- up to 64 axes
- Execution time: 35 lines/ms	- Execution time: 102 lines m/s
- 350 mA power consumption	- 180 mA power consumption
- Maximum retentive variable 4096	- Maximum retentive variable 16384
- Profinet I/O: no	- Profinet I/O: yes

EASY PROGRAMMING SYSTEM

The built-in Ethernet port allows programming and connection of common PLC and HMI protocols.

Standard IEC 61131-3 languages available, allowing a fully functional PLC programming system.
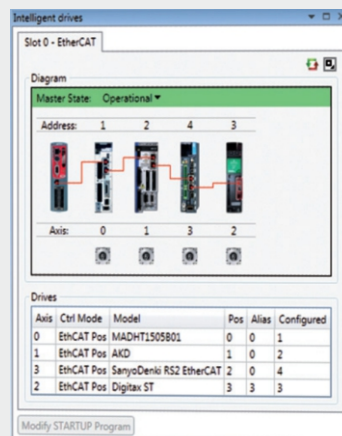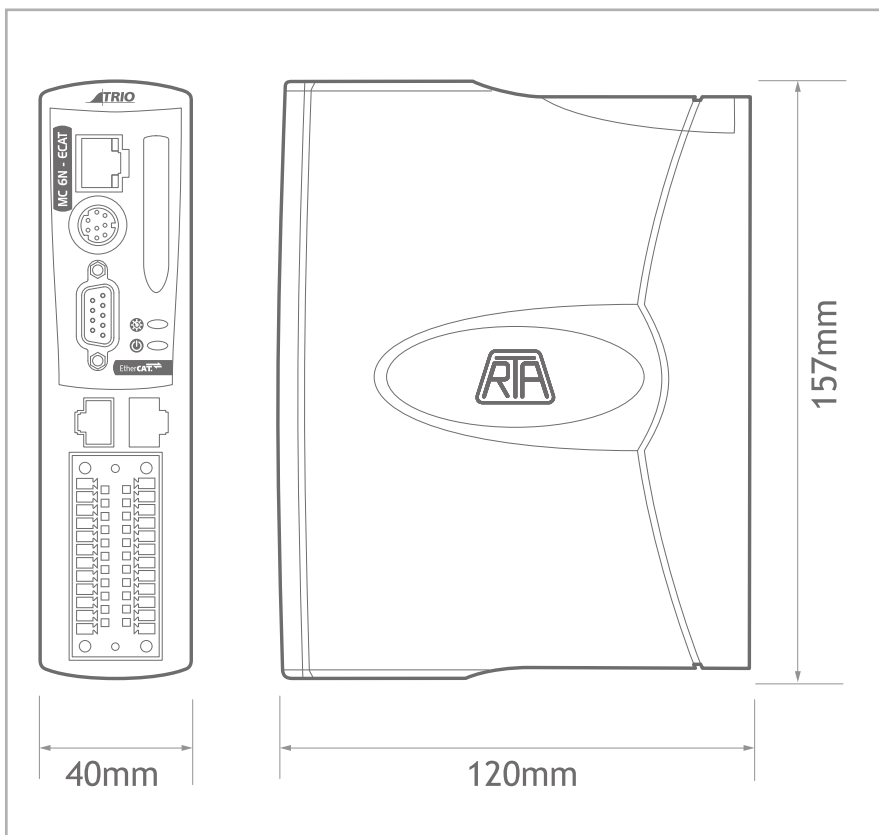
EtherCAT®

SPECIFICATIONS

- Up to 64 EtherCAT digital drive axes virtual axes
- Up to 1024 EtherCAT I/O
- Ethercat cycle times down to 125 μsec.
- Linear, circular, helical and spherical interpolation
- EnDAT and SSI absolute encoder supported
- Ethernet-IP / Modbus TCP / Trio Activex /HMI Uniplay / UDP / Ethernet interface built-in
- Metal backplate for maximum noiselessness.
- Robotic transformations
- High speed registration inputs
- SD memory card slot
- CANopen I/O expansions
- RoHS, UL and CE approved
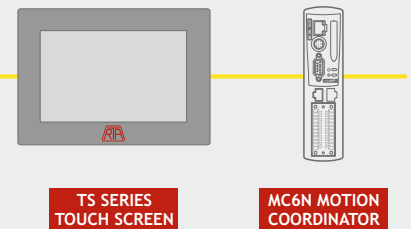
FACTORY ETHERNET
COMMS eg: MODBUS-TCP

MC6N ETHERCAT DRIVES ETHERCAT FLEXSLICE SYSTEM
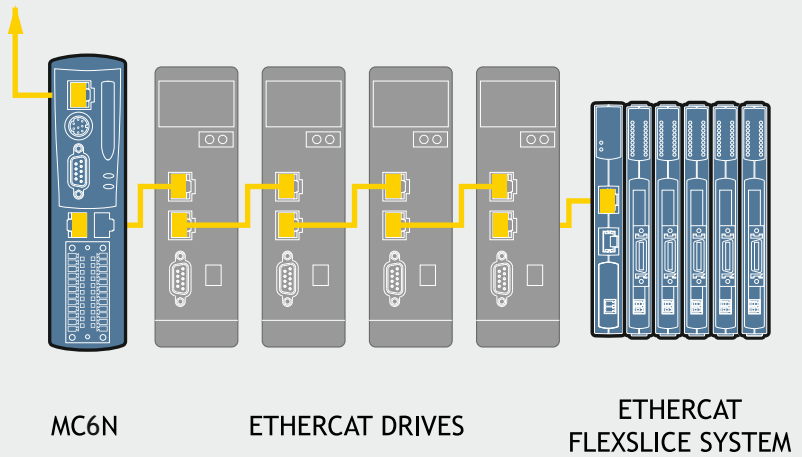
EtherCAT®

MECHANICAL DIMENSIONS

TRIO
MC 6N - ECAT
EtherCAT

157mm

40mm 120mm

TS SERIES TOUCH SCREEN COMPATIBILITY

TS SERIES TOUCH SCREEN

MC6N MOTION COORDINATOR

Easy interaction with R.T.A.'s TS series touch screens.

MAXIMUM VERSATILITY

Built-in support for digital drives and I/Os of most brands on the market.