

MCA6 + MET2 PLC

**COMPACT SIZE
HIGH PERFORMANCE**



USB-C Interface



PUSH-IN terminals
can be used up to
11 AWG diameter



CODESYS

A single bus coupler supports
up to 32 I/O modules

The MCA6 Motion PLC has an ARM 64-bit processor platform compliant with PLC Open and IEC-61131-3. Compact, flexible design with 3x RJ45 + 1x RS485 interfaces. Supports EtherCAT, Modbus TCP/RTU, Ethernet/IP, OPC UA, UDP, CANopen. The MET2 series EtherCAT communication coupler module can expand up to 32 extension I/O modules. It is suitable for MCA6, as well as third-party EtherCAT masters.

KEY FEATURES

- 4-core High-speed processor
- Multi-network design, Flexible communication
- Supports up to 64 Axes via EtherCAT
- Motion Control: CAM / CNC / ROBOT
- McEngine Pro (CODESYS IDE) software for easy migration and compatibility
- USB Type-C programming interface



EtherNet/IP™ EtherCAT® CANopen Modbus OPC UA CE RoHS Compliant

APPLIED MOTION PRODUCTS

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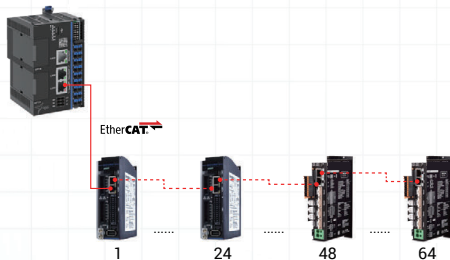
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SPECIFICATIONS

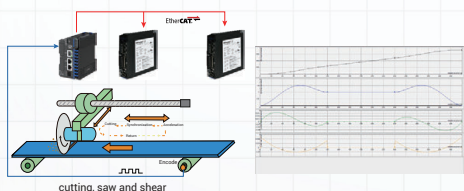
Item	Description
Power Supply	24V DC ($\pm 20\%$) / 1.5A
Built in I/Os	8 inputs, 8 outputs
Data / Program Storage Capacity	20MB program capacity 256MB data capacity (2MB non-volatile)
Communication Specifications	EtherNet/IP: 1 port (independent IP) EtherCAT: 1 port (independent IP) RS485: 1 port (up to 3 with optional expansion card) CAN: correspondent: 1-way expansion can be supported via expansion card
EtherCAT	Number of EtherCAT Axis: Up to 64 motion axes EtherCAT Slaves: Up to 128 EtherCAT nodes Communication Cycle Time: 2 ms cycle time with up to 40 synchronized axes
High Speed I/O	High-Speed Input: 4 $\times$ AB encoder inputs, up to 500 kHz High-Speed Output: 4 $\times$ pulse outputs, up to 500 kHz
Scalability	Expansion Modules: Up to 32 remote I/O modules via MET2 EtherCAT communication coupler Expansion Card: 2 2 slots for MOE2 Communication Expansion Cards supporting RS-232, RS-485, Modbus, and CANopen
Programming Interface	USB Type-C (host power, program upload/download, debugging, firmware upgrade)
Programming Software	McEngine Pro (Codesys IDE)

OUTSTANDING MOTION CONTROL

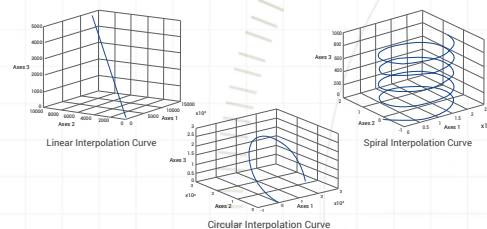
Field Bus: Up to 64 EtherCAT axes, Synchronization cycle time 2ms up to 40 axes.



Electronic CAM: Instead of a mechanical CAM, Electronic CAM with higher processing accuracy and flexibility, improve production efficiency, and are used in packaging and printing machines.



Multi-axis Interpolation: Linear, Circular and Helical interpolation.



Probe Function: MCA6 supports 8 high-speed inputs and 8 high-speed outputs, which can be used in a latching, encoder input or pulse train output function, facilitating flexible configurations in packaging, food and beverage, electronic assembly and other applications.

