



softMC804 Medium Controller

Reliable & Promising



Supporting various communication protocols

- Integrated dual serial port, which can be used for communication with various instruments and sensors.
- Equipped with network port, supporting OPCUA communication, ModbusTCP communication, and TCP/IP communication.
- Supporting communication with high-level languages such as C#, C++, etc. Adopt PLC Handler protocol.

EtherCAT



Linux/Windows Dual system customization options

- Optimized Linux operating system for high real-time, streamlined and stable operation.
- Streamlined Windows operating system to help engineers realize hardware and software simulation.



Windows

Linux



Supporting multi-core architecture

- Multiple tasks can run in different cores and share data with each other, maximizing processor performance for a wide range of applications



Multi-axis synchronization

- 1ms32-axis; 2ms64-axis multi-axis synchronization with less than 50us jitter.
- Point-to-point motion control functions.
- Velocity synchronization, position synchronization function.
- G-code interpolation (linear interpolation/arc interpolation/robot coordinate conversion)



Supporting CAM software

- Connected to the monitor through the HDMI interface; running a high-level language interface, to realize the integration of “upper + motion control”

// Ordering Model Cross Reference

Model	OS	Runtime	Class	Status
MC-E16-804-0103	Linux	CODESYS	Point-to-point motion control, multi-axis velocity/position synchronization, flying shear/ECAM Axis capacity reference: 1ms for 16 servo axes/2ms for 32 servo axes; multi-axis position synchronization	Released
MC-E16-804-0104	Linux		Point-to-point motion control, multi-axis velocity/position synchronization, flying shear/ECAM+WebHMI Axis capacity reference: 1ms for 32 servo axes/2ms for 64 servo axes; multi-axis position synchronization	Released
MC-E16-804-0105	Linux		Point-to-point motion control, multi-axis velocity/position synchronization, flying shear/ECAM+WebHMI+CNC/Robotics Axis capacity reference: 1ms for 16 servo axes/2ms for 32 servo axes; multi-axis position synchronization	Released

// Specification

Specification	MC-E16-804 version	
System	Operating system	Linux
	Control software	CODESYS
	CPU	2.0GHz Intel® J3355 Dual-Core Processor
	RAM	4GB
	Storage	64GB
	Ethernet Port	2x Intel GbE EtherNet: RJ45 port, supporting Modbus TCP, OPCUA communication; EtherCAT: RJ45 port, supporting EtherCAT, fieldbus communication;
	USB	2 x USB3.0; 2 x USB2.0
	COM 1&2	1 x RS485 / 1x RS-232
	HDMI	Maximum resolution 4096 x 2160@30HZ
Environment/Installation	Installation	DIN rail mounting/wall mounting
	Operating/Storage temperature	-20 to 60° C/-40 to 80° C
	Relative humidity	95% (no condensation)
	Protection class	IP 20
	Dimensions	145 mm x 145 mm x 75 mm (WxHxD)
	Certifications	CE/FCC Class A/CCC

// Software Features

- CODESYS software supports IEC61131-3 programming language.
- PLCOpen standard motion control library; supporting motion control functions such as point-to-point motion, electronic gear function/ECAM function, multi-axis interpolation (G-code), robot coordinate conversion, etc.
- Supporting C/C++; software engineers can use the most suitable language for program development.
- Equipped with human-machine interface, trend graph continuous data recording and other functions.
- Supporting web access to the visualization interface to realize remote control.
- Integration of typical industry process algorithm packages, such as tension control, flexible gantry, etc.

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