Eckelmann

Embedded Controller - E°EXC 880

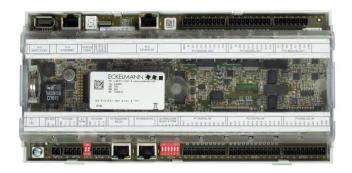


Special Functional and Performance Features

- All-in-one-solution
 Embedded controller with integrated IO-functions for PLC,
 motion and NC applications
- PLC programming with CODESYS® V3 according to IEC 61131-3
- NC operating system, DIN programming, up to 32 NC and 64 motion axes according to PLCOpen Part I and II (combinable), 6 simultaneously interpolating axes
- NC kernel with extended instruction set and a lot of technology specific additional functions e.g. reverse travel and restart on the contour, tangential tracking
- 20 digital inputs, 16 digital outputs,
 4 analog inputs, 4 analog outputs
- 2 galvanic isolated CAN buses (e.g. for CANopen® drives), termination switchable
- EtherCAT® Master
- OPC UA Server and OPC UA Client for Industry 4.0 connection

- Real-time clock
- Compact design
- Low power consumption
- Programming via RS-232 and Ethernet
- Integrated Web server for web-based visualization
- Also available as an export version (no permit is required due to limitation of 4 simultaneously interpolating axes)
- Optional: memory extension via micro SDHC card slot (up to 32 GByte)
- Optional: prepared for connection of a Safety Controller

Connections for E°EXC880



2 x CAN-Interface

1 x EtherCAT®

3 serial interfaces

Programming interface Ethernet, RS232

Digital inputs and outputs

Analog inputs and outputs

Technical Data

Electrical connection

Supply voltage

Interfaces

- CAN1, CAN2
- EtherCAT®
- Ethernet
- Serial interfaces
- Digital inputs and outputs
- Analog inputs and outputs

Data memory
Program memory
Memory extension
Programming interface
Real-time clock
Operating monitoring

General data

- Dimensions (w x h x d)
- Temperature range
- Relative humidity
- Protection

Standards and regulations

24 V DC nominal, 19,2 V ... 30 V permitted

 $2x\ \text{CANopen}^{\text{\tiny{\$}}}$ port for external CAN bus devices and connected

I/O modules, each port configurable as I/O or drive bus EtherCAT® Master interface, supports Distributed Clocks

1x 100Base-TX, 100 Mbit/s

1 x RS-232, 2 x RS-485 / RS422 switchable

20 x Digital In, 24 V, LED status display, polarity reversal protection

16 x Digital Out, 24 V, 500 mA, LED status display, short circuit protected

4 x Analog In, -10V \dots 10V, differential

4 x Analog Out, -10 V \dots 10 V, single-ended

256 MByte RAM, 1 MByte CMOS RAM, battery buffered

1 GByte FLASH

Optional: internal slot for micro SDHC card (up to 32 GB)

Ethernet, RS-232 interface with pilot LEDs

Battery buffered power reserve

Outputs are turned off by a watchdog in case of an error

258 x 42 x 128 mm

-40 °C to +70 °C

+5 °C to +50 °C

10 % to 95 %, non-condensing

IP20

EC Declaration of Conformity according to

- 2014/30/EU (EMV Directive)
- 2011/65/EU (RoHS Directive)

UK Declaration of Conformity according to

- SI 2016/1091 The Electromagnetic Compatibility Regulations 2016
- SI 2012/3032 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

UL listed: cULus E257496

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Transport/storage:

Operation: