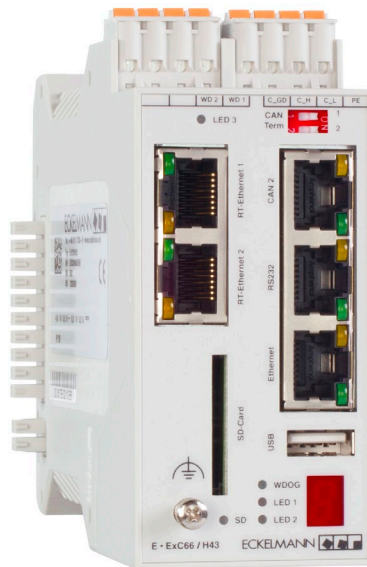


Eckelmann

EMBEDDED CNC-CONTROLLER E°EXC 66e rte



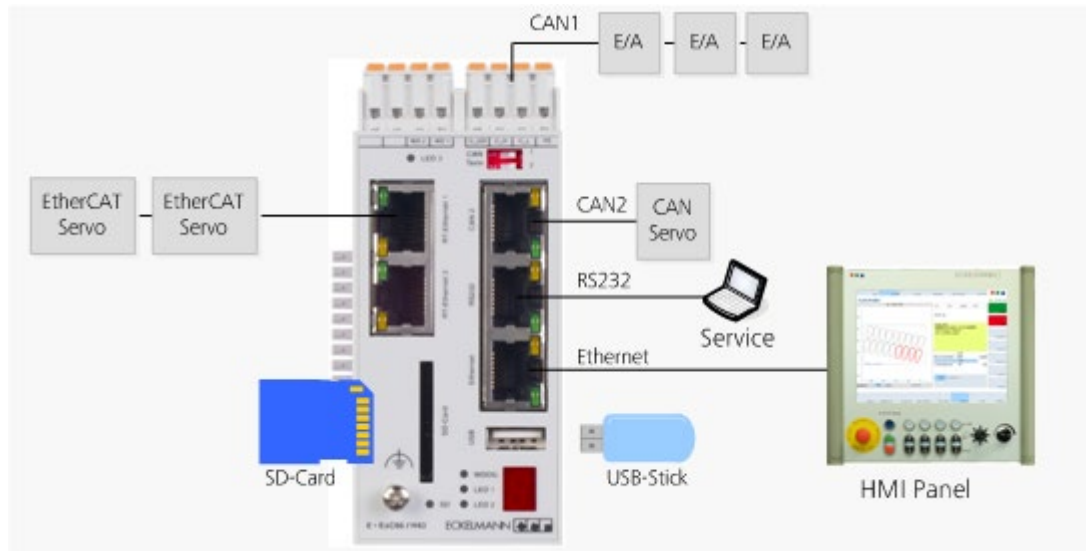
Special functions and features

- NC functionality with a maximum of 16 axes
- Limitations for a controller with 8 or 16 axes:
A maximum of 4 simultaneously interpolating axes and additionally up to 12 auxiliary or gantry axes
- Comprehensive firmware extensions for different technologies (oxygen cutting, water cutting, eccentricity grinding etc.)
- PLC programming in accordance with IEC 61131-3
- Programming via RS232C and Ethernet
- 2 galvanic isolated CAN busses with pilot-LEDs (1x CANopen®-IO, 1x CANopen®-drives)
- Real-time Ethernet interface (sercos III or EtherCAT®)
- Local bus for fast I/O modules of the LBM family
- External LBM-PWR04 power module is necessary to supply the E°EXC 66e rte and the I/O modules
- Second NC channel for asynchronous execution of a subprogram

CANopen® and CiA® are registered trademarks of the association CAN in Automation e.V.

EtherCAT® is a registered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

Connection Diagram E°EXC 66e rte



Technical Data

Electrical Connection

- Supply Voltage: 5 V DC by local bus from add. power module LBM-PWR04
- Supply current: Max. 600 mA via local bus

Interfaces

- CAN1 bus: Port for CANopen® devices
- CAN2 bus: Port for CANopen® drives with DS402 profile
- RT-Ethernet 1 and 2: Real-time Ethernet interface with two connectors for SERCOS III or EtherCAT®
- Local bus: Expansion with LBM modules
- Program memory: 2 MByte PLC program memory
- Data memory: 8 MByte memory for NC (DIN) programs
- Memory extension: 2 MByte PLC data memory
- Memory extension: 512 kByte CMOS RAM, battery buffered
- Memory extension: Slot for SD cards
- Memory extension: USB interface for mass storage
- Programming interface: Ethernet, RS232C interface with pilot-LED's
- Real-time clock: Battery buffered
- Operating monitoring: Watchdog with solid state relays

General Data

- Dimension: W 45 x H 100 x D 84 mm
- Temperature range:

Transport/	
Storage:	-20 °C .. +70 °C
Operation:	0 °C .. +50 °C
- Relative humidity: 5 % .. 95 %
- Protection: IP20
- Standards and regulations:
 - 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