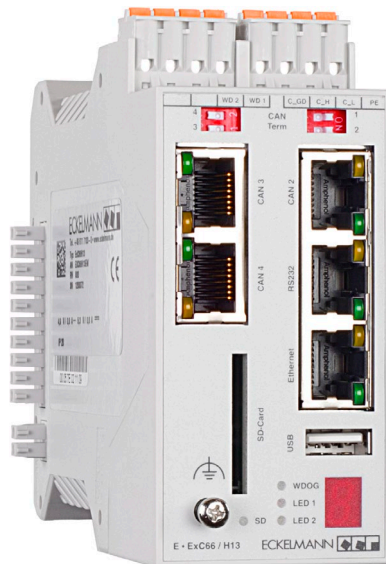


# Eckelmann

## EMBEDDED CONTROLLER E°ExC66 rte



### Special functions and features

- Embedded Controller for PLC, motion and CNC applications
- ELC66 (PLC): with CODESYS®, IEC 61131-3 compatible
- EMC66 (motion): additional motion library according to PLCopen®
- ENC66 (CNC): additional NC-operating system, DIN-programming, up to 16 NC axes, 6 axes simultaneously interpolating
- 2 galvanic isolated CAN-Busses (e.g. for CANopen® drives)
- Realtime Ethernet interface (sercos III or EtherCAT®)
- Real-time clock
- Memory extension via SD card slot and USB interface
- Ultra compact design
- Programming via RS-232 and Ethernet
- Local-Bus for fast I/O-modules of the LBM family
- External LBM-PWR04 power module is necessary to supply the ExC66 and the I/O modules
- 7 segment-LED for status and error messages

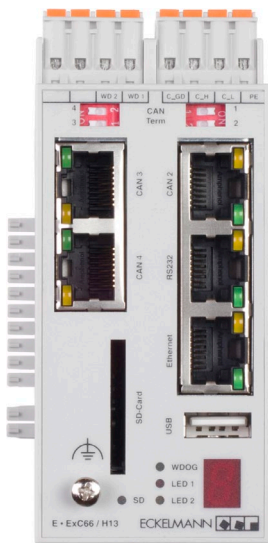
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CODESYS® is a registered trademark of CODESYS GmbH.

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

PLCopen® is a registered trademark by the association PLCopen, Netherlands.

# Connection diagram and terminal assignment E°ExC66 rte



CAN1	CAN-Interface with COMBICON connector
CAN2	CAN-Interface with RJ45
RT-Ethernet 1	sercos III or EtherCAT® interface
RT-Ethernet 2	sercos III interface
RS232	Programming interface RS-232
Ethernet	Network connection 10/100 MB
USB	USB interface
WDOG	Watchdog LED
LED1, LED2	Status LED CAN1
SD-Card	Slot for SD-cards

## Specifications

### 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

- Internal CAN1 bus: CANopen® port for distributed I/O modules
- Internal CAN2 bus: CANopen® port for drives
- RT-Ethernet 1 and 2: Realtime Ethernet interface with 2 connections for sercos III or one connection for EtherCAT®
- Program memory: 16 MByte FLASH
- Data memory: 64 MByte SDRAM
- Memory extension: 512 kByte CMOS-RAM battery buffered
- Programming interface: Slot for SD cards
- Realtime clock: USB interface for mass storage devices
- Operating monitoring: Ethernet, RS-232 interface with pilot-LED's
- Watchdog: Battery buffered
- Watchdog with solid state relay

### General data

- Dimensions: W 45 x H 100 x D 115 mm
- Temperature range:
 

Transport/	
Storage:	-20 °C .. +70 °C
Operation:	0 °C .. +50 °C
- Relative humidity: 5 % .. 95 %, non-condensing
- 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