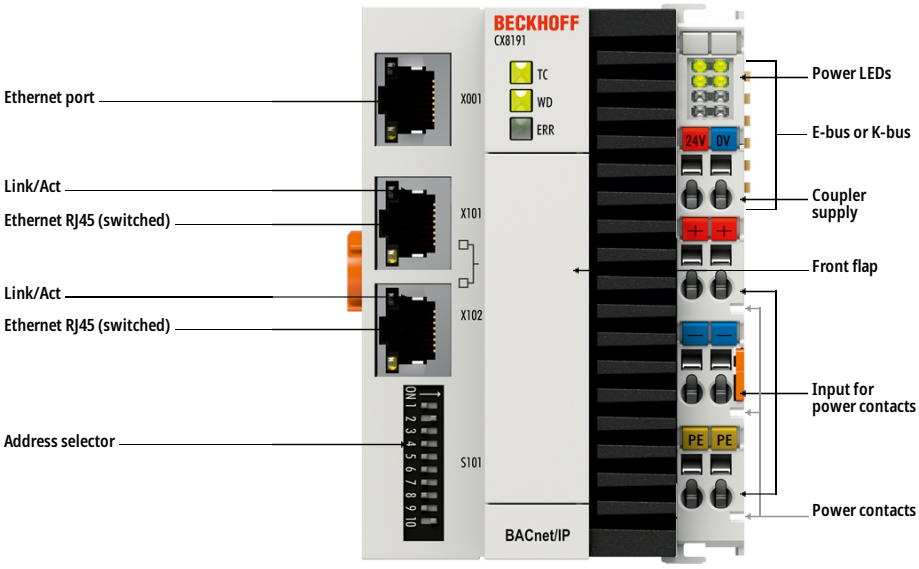
CX8191 | Embedded PC with BACnet/IP



Product status: Regular delivery

The CX8191 is a control system with a switched Ethernet port. It supports the BACnet protocol. E-bus or K-bus terminals can be attached as required; the CX8191 automatically recognizes the type of I/O system connected during the start-up phase.

The control system is programmed with TwinCAT 3 via the fieldbus interface or the additional Ethernet interface. TwinCAT 3 licenses must be ordered via the TwinCAT 3 price list. The BACnet license is already installed on the device and does not need to be ordered separately.

BACnet (Building Automation Control Network) is a standardized, manufacturer-independent communication protocol for building automation. Areas of application include HVAC, lighting control, safety and fire alarm technology.

In conjunction with the EL6861 BACnet-MS/TP terminals, the CX8191 can act as a router to MS/TP networks including support for several MS/TP networks. In addition, further protocols and services can be supported, such as OPC UA, MQTT or Modbus TCP/RTU. Therefore, the CX8191 is a virtually universal device that can be used very flexibly, from control tasks through to gateway functions.

Product information

Technical Data

Technical data	CX8191
Processor	ARM Cortex™-A9, 800 MHz (TC3: 20)
Number of cores	1
Flash memory	slot for microSD card, 512 MB included (expandable)

Main memory	512 MB DDR3 RAM (not expandable)
Persistent memory	1-second UPS (for 1 MB persistent data)
Interfaces	1 x RJ45 10/100 Mbit/s, 1 x bus interface
Bus interface	2 x RJ45 (switched)
Data transfer rates	100 Mbit/s
Diagnostics LED	1x TC status, 1x WD, 1x error
Clock	internal battery-backed clock for time and date (battery behind the front flap, exchangeable)
Operating system	Windows Embedded Compact 7
Control software	TwinCAT 3 runtime (XAR)
I/O connection	E-bus or K-bus, automatic recognition
Power supply	24 V DC (-15 %/+20 %)
Current supply E-bus/K-bus	2 A
Max. power consumption	4 W
Max. power consumption (with loading UPS)	9 W
Dimensions (W x H x D)	71 mm x 100 mm x 73 mm
Weight	approx. 230 g
Operating/storage temperature	-25...+60 °C/-40...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protection class	IP 20
Approvals/markings	CE, UL

Ordering Information

Ordering information	
CX8191	Embedded PC, ARM Cortex™-A9, 800 MHz (TC3: 20)

Options

Options	
CX1900-0123	1 GB microSD card, instead of 512 MB microSD card
CX1900-0125	2 GB microSD card, instead of 512 MB microSD card
CX1900-0127	4 GB microSD card, instead of 512 MB microSD card
CX1900-0129	8 GB microSD card, instead of 512 MB microSD card

Accessories

Accessories	
CX1900-0102	Spare battery suitable for CX10x0, CX81x0, CX50x0, CX51x0, CX52x0, CX90x0, CX20xx – lithium button cell type CR2032, 3V/225 mAh – follow polarity when installing
CX1900-0122	512 MB microSD card
CX1900-0124	1 GB microSD card
CX1900-0126	2 GB microSD card
CX1900-0128	4 GB microSD card
CX1900-0130	8 GB microSD card