

BECKHOFF CX8091 Embedded PC with BACnet/IP or OPC UA Instructions

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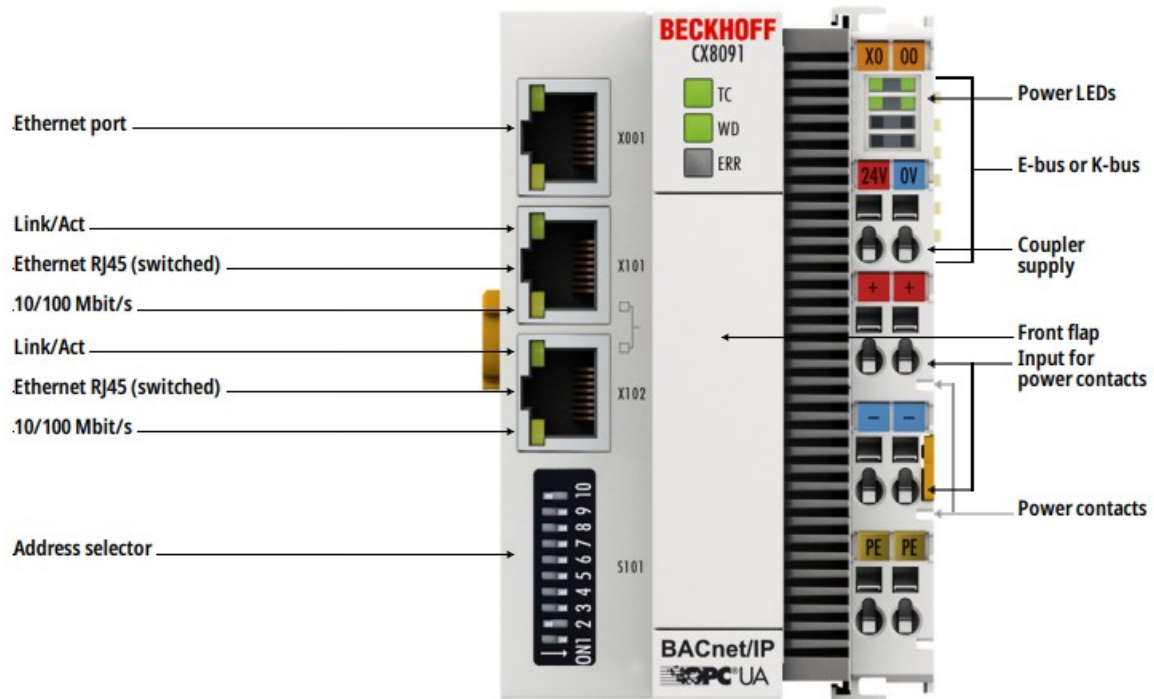
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CX8091 | Embedded PC with BACnet/IP or OPC UA

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CX8091 Embedded PC with BACnet/IP or OPC UA



Product status: regular delivery

The CX8091 is a control system with a switched Ethernet port. It supports either the BACnet or OPC UA protocols. Simultaneous use is not recommended due to the small memory. K-bus or E-bus terminals can be attached as required; the CX8091 automatically recognizes the type of I/O system connected during the start-up phase. The control system is programmed with TwinCAT 2 via the fieldbus interface or the additional Ethernet interface. 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.

The TwinCAT OPC UA Server provides the functionality of the OPC Unified Architecture (UA) specification. In addition to data access techniques UA also specifies the data coding and the transport protocols.

Product information

Technical data

Technical data	CX8091
Processor	ARM9, 400 MHz
Number of cores	1
Flash memory	512 MB microSD (optionally expandable)
Main memory	64 MB DDR2 RAM (not expandable)
Persistent memory	1-second UPS (for 1 MB persistent data)

CX8091

Web visualization	yes
Online change	yes
Up/down load code	yes/yes
Interfaces	1 x RJ45 10/100 Mbit/s, 1 x USB device (behind the front flap), 1 x bus interface
Bus interface	2 x RJ45 (switched)
Diagnostics LED	1 x TC status, 1 x WD, 1 x error
Clock	internal battery-backed clock for time and date (battery behind the front flap, exchangeable)
Operating system	Windows Embedded CE 6
Control software	TwinCAT 2 PLC
I/O connection	E-bus or K-bus, automatic recognition
Web-based management	yes
Current supply E-bus/K-bus	2:00 AM
Max. power consumption	3 W
Dimensions (W x H x D)	64 mm x 100 mm x 73 mm
Weight	approx. 180 g
Operating/storage temperature	0...+55 °C/-25...+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 rating	IP20
Approvals/markings	CE, UL, ATEX, IECEx, cFMus
Ex marking	ATEX: II 3 G Ex nA IIC T4 Gc II 3 D Ex tc IIIC T135 °C Dc IECEx: Ex nA IIC T4 Gc Ex tc IIIC T135 °C Dc cFMus: Class I, Division 2, Groups A, B, C, D Class I, Zone 2, AEx ec IIC T4 Gc

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

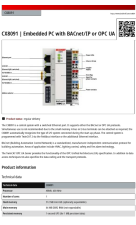
CX1900-0122	512 MB microSD card
CX1900-0124	1 GB microSD card
CX1900-0126	2 GB microSD card
CX1900-0128	4 GB microSD card
CX1900-0130	8 GB microSD card
CX1900-0132	16 GB microSD card

Technical changes reserved
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<https://www.beckhoff.com/cx8091>

Documents / Resources

	BECKHOFF CX8091 Embedded PC with BACnet/IP or OPC UA [pdf] Instructions CX8091 Embedded PC with BACnet IP or OPC UA, CX8091, Embedded PC with BACnet IP or OPC UA, PC with BACnet IP or OPC UA, BACnet IP or OPC UA, IP or OPC UA, OPC UA, UA
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References

- [User Manual](#)

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