



CX8091 | Embedded PC for BACnet/IP and OPC UA

The CX8091 is a control system with a switched Ethernet port. It supports the BACnet and OPC UA protocols. K-bus or E-bus terminals can be attached as required; the CX8091 automatically recognises 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 standardised, 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.

Technical data	CX8091
Processor	ARM9, 400 MHz
Flash memory	512 MB microSD (optionally expandable)
Internal main memory	64 MB RAM (internal, not expandable)
Protocol	BACnet/IP or OPC UA
Programming	TwinCAT 2 PLC
Programming languages	IEC 61131-3
Web visualisation	yes
Online change	yes
Up/down load code	yes/yes
Interfaces	1 x Ethernet 10/100 Mbit/s, 1 x USB device (behind the front flap)
Bus interface	2 x RJ45 (switched)
I/O connection	E-bus or K-bus, automatic recognition
Clock	internal battery-backed clock for time and date (battery behind the front flap, exchangeable)
UPS	1-second UPS (for 1 MB of persistent data)
Operating system	Microsoft Windows Embedded CE 6
Web-based management	yes
Current supply E-bus/K-bus	2 A
Max. power loss	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 class	IP 20
Approvals	CE, UL, Ex, IECEx

Accessories	
CX1900-01xx	Optionally expandable memory ex factory. Instead of 512 MB microSD card: 1, 2, 4 and 8 GB microSD card
CX1900-01xx	Additionally expandable memory: 1, 2, 4 and 8 GB microSD card