



CX8090 | Embedded PC for Ethernet

Ethernet The CX8090 is a control system with a switched Ethernet port. It supports protocols such as real-time Ethernet, ADS UDP/TCP, Modbus TCP client/server or open TCP/IP-UDP/IP communication. K-bus or E-bus terminals can be attached as required; the CX8090 automatically recognises the type of I/O system connected during the start-up phase. The control system is programmed with TwinCAT via the fieldbus interface or the additional Ethernet interface.

Technical data	CX8090
Processor	32 bit, 400 MHz
Flash memory	512 MB microSD (optionally expandable)
Internal main memory	64 MB RAM (internal, not expandable)
Protocol	real-time Ethernet, ADS TCP, Modbus TCP, TCP/IP, UDP/IP, EAP (EtherCAT Automation Protocol)
Programming	TwinCAT 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 (EtherCAT Terminals) or K-bus (Bus Terminals), 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
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

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

System	
Ethernet TCP/IP	For further Ethernet TCP/IP products please see the system overview .