



CX8190 | Embedded PC for different Ethernet protocols

Ethernet The CX8190 is a controller with two Ethernet ports, one of which is switched to two RJ45 sockets. It supports protocols such as real-time Ethernet, ADS UDP/TCP or EAP (EtherCAT Automation Protocol). K-bus or E-bus terminals can be attached as required; the CX8190 automatically recognises 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.

Technical data	CX8190
Processor	ARM Cortex™-A9, 800 MHz (TC3: 20)
Flash memory	slot for microSD card, 512 MB included (expandable)
Main memory	512 MB DDR3 RAM (not expandable)
Protocol	real-time Ethernet, ADS UDP, ADS TCP, EAP (EtherCAT Automation Protocol)
Programming	TwinCAT 3
Interfaces	1 x RJ45 10/100 Mbit/s, 2 x RJ45 100 Mbit/s (RT Ethernet, internal switch)
Bus interface	2 x RJ45 (switched)
Data transfer rates	100 Mbit/s
I/O connection	E-bus or K-bus, automatic recognition
Power supply	24 V DC (-15 %/+20 %)
Clock	internal battery-backed clock for time and date (battery behind the front flap, exchangeable)
UPS	1-second UPS
Operating system	Microsoft Windows Embedded Compact 7
Current supply E-bus/K-bus	2 A
Max. power loss	4 W (including the system interfaces)
Dimensions (W x H x D)	71 mm x 100 mm x 73 mm
Weight	approx. 205 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	CE, UL
TC3 performance class	Economy (20); please see here for an overview of all the TwinCAT 3 performance classes

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