

# CX8210 | Embedded PC with Arm® Cortex®-A53 and EtherCAT slave

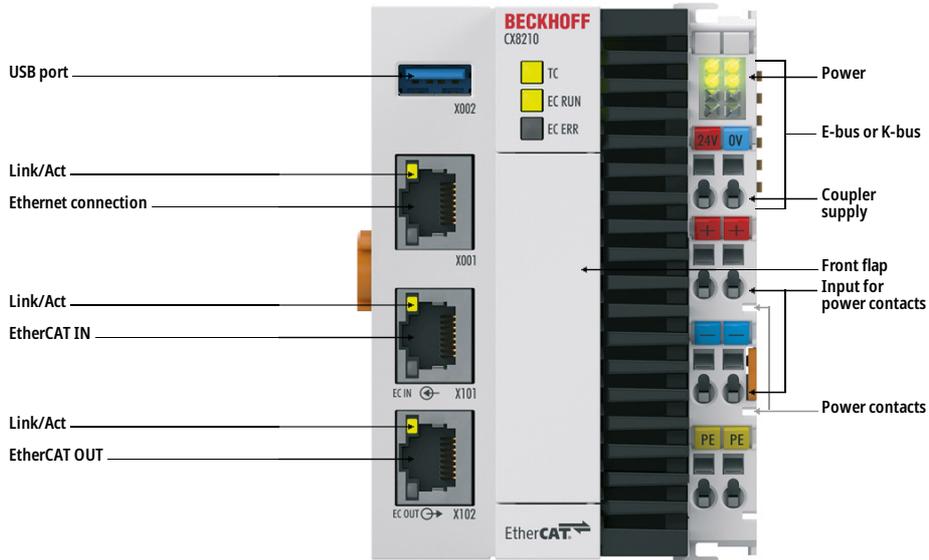


Image similar, may contain optional accessories

**i** **Product status:** product announcement | estimated market release 3rd quarter 2025

The CX8210 Embedded PC is a control with an EtherCAT slave interface. It features an Arm® Cortex®-A53 dual-core processor with 1.2 GHz. The basic configuration of the CX8210 includes a 1 Gbit Ethernet interface, a USB 3.0 interface, a 1 GB LPDDR4 RAM, and a slot for a microSD card. The microSD card is not included in the scope of delivery and must be ordered separately, taking the desired memory capacity into account.

E-bus or K-bus terminals can be attached as required; the CX8210 automatically recognizes the type of I/O system connected during the start-up phase. The control system is programmed with TwinCAT 3 via the Ethernet interface. TwinCAT 3 licenses must be ordered via the TwinCAT 3 price list.

Beckhoff RT Linux® is used as operating system.

## Product information

### Technical data

| Technical data  | CX8210  |
|-----------------|---|
| Processor       | Arm® Cortex®-A53, 1.2 GHz   |
| Number of cores | 2   |
| Flash memory    | slot for microSD card, card not included (requires a microSD card with a minimum capacity of 16 GB) |

|   |   |
|---|---|
| Main memory                               | 1 GB LPDDR4 RAM (not expandable)  |
| 1-second UPS                              | integrated (1 MB on microSD card)   |
| Interfaces                                | 1 x RJ45 10/100/1000 Mbit/s, 1 x USB 3.0, 1 x bus interface                                       |
| Cooling                                   | passive   |
| Bus interface                             | EtherCAT Slave IN and OUT (2 x RJ45)  |
| Data transfer rates                       | 100/1000 Mbit/s   |
| Diagnostics LED                           | 1 x TC status, 1 x EC Run, 1 x EC Err   |
| Clock                                     | internal, capacitor-buffered real-time clock for time and date (storage capacity > 21 days)       |
| Operating system                          | Beckhoff RT Linux®  |
| Control software                          | TwinCAT 3 runtime (XAR) from TwinCAT 3.1 Build 4026 (XAE)   |
| 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) | 7.5 W   |
| Max. power consumption E-bus/K-bus        | 10 W (5 V/max. 2 A)   |
| Dimensions (W x H x D)                    | 71 mm x 100 mm x 73 mm  |
| Weight                                    | approx. 220 g   |
| Operating temperature                     | -25...+60°C   |
| Storage temperature                       | -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 rating                         | IP20  |
| Approvals/markings                        | CE, UL  |
| TwinCAT 3 platform level                  | Economy (20); please see <a href="#">here</a> for an overview of all the TwinCAT 3 platform level |

## Accessories

| Accessories                                  |  |
|--|--|
| <a href="#">CX1900-0132</a>                  | 16 GB microSD card   |
| <a href="#">ZK1090-9191-0xxx</a>             | RJ45, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin  |
| <a href="#">ZK1093-9191-0xxx</a>             | RJ45, plug, straight, male, 8-pin – RJ45, plug, straight, male, 8-pin  |
| <a href="#">C9900-K530,-K552,-K553,-K554</a> | USB cable, shielded, PVC, 1 x 2 x 28AWG + 2C 20AWG, fixed installation, black, USB A, plug, straight, male, 4-pin – USB B, plug, straight, male, 4-pin |

|  |   |
|--|---|
| <a href="#"><u>C9900-K569,-K570,K577</u></a> | USB cable, shielded, PVC, 2 x 2 x AWG28 + 1 x 2 AWG28 + 1 x 2 x AWG24, fixed installation, black, USB A, plug, straight, male, 9-pin – USB B, plug, straight, male, 9-pin |
| <a href="#"><u>BZ1xxx</u></a>                | 100 contact labels, various colors, pre-printed   |
| <a href="#"><u>BZ2xxx</u></a>                | 100 contact labels, various colors, blank   |