Beckhoff — CX Embedded PC Systems

# CX5140-0115




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The **CX5140-0115** is an embedded PC from Beckhoff in the CX Embedded PC Systems series. As a DIN-rail-mountable controller, it combines an industrial CPU, fieldbus interfaces, and direct terminal connectivity in a compact housing, enabling real-time PLC, motion, and HMI tasks on the machine level. Designed to replace separate IPC and bus coupler hardware, the unit centralizes control functions for modular I/O stacks and space-restricted automation panels.

At its core the system runs on a **Intel Atom E3845** processor with **4** physical cores clocked at **1.91 GHz**. The quad-core design allows deterministic multitasking; separate logic, motion, and visualization threads can execute without context-switch bottlenecks. A soldered **4 GB DDR3-RAM** module holds both the real-time operating system and user application code. Despite this computing headroom the controller draws a maximum of **16 W** from the DC bus during full load and operates from a single **24 V DC** supply. The housing measures 142 mm in width, 92 mm in depth, and 100 mm in height so it fits inside shallow control cabinets while still exposing the Bus Terminals on the right side.

For peripheral wiring the Bus Terminal power contacts can carry up to **10 A**, and the internal I/O terminal supply is limited to 2 A, preventing overcurrent on the back-plane. The device withstands transients between functional earth and supply lines thanks to a dielectric strength of **500 V**. When an uninterruptible power supply is connected, total consumption rises to **23 W** because the charging circuit for the buffer is active; a 1 MB flash area on the CFast card stores process data during brownouts so variables persist through controlled shutdowns. These electrical safeguards

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complement the compact enclosure, ensuring reliable operation of the multi-core platform in distributed control cabinets.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Cpu Clock:** | 1.91 GHz | **Cpu Cores:** | 4 | **Depth:** | 92 mm |
| **Dielectric Strength:** | 500 V | **Height:** | 100 mm | **I/o Terminal Supply:** | 2 A |
| **Main Memory:** | 4 GB DDR3-RAM | **Max Power Consumption:** | 16 W | **Max Power With Ups Charging:** | 23 W |
| **Power Contacts Load:** | 10 A | **Power Supply:** | 24 V DC | **Processor:** | Intel Atom E3845 |
| **Ups Buffer:** | 1 MB On CFast Card | **Width:** | 142 mm | **Last Verified:** | 11/19/2026 7:28 AM |

## Contact Us


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