Beckhoff — CX Embedded PC Systems

# CX5140-0100




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The **CX5140-0100** belongs to the CX Embedded PC Systems series from Beckhoff. As an embedded PC, it serves as the central control element in modular machine and building automation installations, combining PLC logic, motion control, and visualization functions in a DIN-rail footprint. Its fanless housing, fieldbus coupler slots, and direct terminal connection allow it to integrate with Beckhoff I/O modules without additional gateways.

The unit uses an Intel Atom E3845 processor clocked at **1.91 GHz**. Its four physical cores handle deterministic real-time tasks and general Windows or Linux workloads, although the unit is supplied without an operating system. Application code runs in **4 GB of DDR3 RAM**, while CFast and microSD slots provide removable storage for programs and recipe data. Two Gigabit Ethernet ports, provided as **2 × RJ45 ports supporting 10/100/1000 Mbit/s**, accommodate EtherCAT or standard TCP/IP networking. Four USB 2.0 Type-A connectors allow service tools, storage devices, or HMI panels to be connected. The logic section operates from a **24 V DC supply** and draws **16 W during typical operation**, making it suitable for compact control-cabinet power rails.

The aluminum enclosure measures **142 × 100 × 92 mm**, weighs **1095 g**, and carries an **IP20 protection rating**. Its compact dimensions support DIN-rail installation in control cabinets with limited space, while the aluminum body provides a rigid housing for the internal electronics. Internal power paths withstand a dielectric strength of 500 V, and a terminal current of 2 A is available for attached I/O slices. When the main power supply dips, the integrated uninterruptible power supply maintains control operation for one second. Total power consumption rises to **23 W during UPS operation** for that brief interval. The removable storage slots provide access to application files

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without requiring changes to the internal electronics.

## Specifications

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| **Cpu Cores:** | 4 | **Dielectric Strength:** | 500 V | **Dimensions (w X H X D):** | 142 x 100 x 92 mm |
| **I/o Terminal Supply:** | 2 A | **Integrated Ups:** | 1 s | **Lan Interfaces:** | 2 x RJ45, 10/100/1000 Mbit/s |
| **Main Memory:** | 4 GB DDR3 RAM | **Max Power Consumption:** | 16 W | **Max Power With Ups:** | 23 W |
| **Operating System:** | None | **Processor:** | Intel Atom E3845, 1.91 GHz | **Protection Rating:** | IP20 |
| **Storage Slots:** | CFast Slot + MicroSD Slot | **Supply Voltage:** | 24 V DC | **Usb Interfaces:** | 4 x USB 2.0, Type A |
| **Weight:** | 1095 g | **Last Verified:** | 11/20/2026 9:03 AM | | |

## Contact Us


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