Beckhoff — CX Embedded PC Systems

CX5140-0135



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The **CX5140-0135** embedded PC is produced by Beckhoff and belongs to the CX Embedded PC Systems series. This fanless controller combines an Intel Atom E3845 processor with local I/O couplers to create a DIN-rail computer that runs TwinCAT 3 Runtime for PLC, motion, and HMI tasks in distributed machine cells. Program code and data are retained on a CFast card, while a microSD slot provides removable storage for archived files. An integrated one-second uninterruptible power supply protects 1 MB of CFast data during brief power outages, reducing the risk of corrupted files or incomplete write operations.

The Intel Atom E3845 operates at **1.91 GHz**, providing the processing speed needed for deterministic control loops and concurrent automation tasks. The processor has **four cores**, allowing independent PLC tasks and operating system services to run in parallel. The controller is fitted with **4 GB of DDR3 RAM**, allowing large TwinCAT programs and local databases to remain in memory without frequent access to flash storage. Power consumption is limited to **16 W**, reducing the thermal load inside the control cabinet. Power is supplied at **24 V DC**, allowing the unit to use a common industrial control supply. Heat is dissipated through the aluminum housing without moving fans, which reduces noise and eliminates routine fan maintenance.

Two independent Ethernet controllers provide **2 × RJ45 10/100/1000 Mbit/s connections**, enabling the separation of fieldbus and enterprise network traffic or the use of redundant network arrangements. Four front-mounted ports provide **4 × USB 2.0 connections** for service devices, touch displays, storage media, or compatible adapters without additional hubs. The unit has an **IP20 rating**, so it must be installed inside a suitable control or

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switchgear enclosure. This enclosure rating protects internal components against accidental finger contact but does not provide protection from water. The housing measures **142 × 100 × 92 mm**, conserving DIN-rail space in compact control cabinets. Local I/O connectivity allows the controller to communicate directly with attached terminals, while its network interfaces support communication with other controllers, supervisory systems, and industrial devices.

Specifications

Control Software:	TwinCAT 3 Runtime (XAR)	**Cooling:**	Passive	**Core Count:**	4
Cpu Clock:	1.91 GHz	**Dimensions:**	142 x 100 x 92 mm	**Ethernet:**	2 x RJ45 10/100/1000 Mbit/s
Flash Storage:	CFast Slot + microSD Slot	**Main Memory:**	4 GB DDR3 RAM	**Max Power:**	16 W
One-second Ups:	Integrated (1 MB on CFast)	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3845
Protection Rating:	IP20	**Twincat Licenses:**	Not Included	**Usb Ports:**	4 x USB 2.0
Last Verified:	11/20/2026 12:15 AM				

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