Beckhoff — CX Embedded PC Systems

CX5140-0125



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The **CX5140-0125** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. This fanless controller combines CPU, fieldbus, and I/O interfaces in a DIN-rail format, allowing it to run machine-level logic directly inside electrical cabinets. By executing PLC, motion, and HMI tasks in one housing, the device can replace separate rack computers and gateway modules in industrial automation networks.

An **Intel Atom E3845 processor operating at 1.91 GHz** provides the computing core, and its **4 physical threads** handle cyclic tasks such as deterministic control loops. The CPU works with **4 GB of DDR3 RAM**, providing volatile memory for TwinCAT variables and real-time data buffers while keeping boot times short. The unit includes **TwinCAT 3 Runtime (XAR)**, allowing it to execute compatible IEC 61131-3 control programs. Maximum power consumption under normal load is **16 W**, while consumption can rise to 23 W when the integrated UPS is active. The motherboard provides four USB 2.0 ports for service devices, with each port limited to 500 mA to protect the power rails. Its dielectric strength is rated at 500 V to withstand electrical transients commonly encountered inside control cabinets.

Power is supplied at **24 V DC** through a pluggable terminal, and a one-second UPS bridge keeps the controller active long enough to retain data during brief power interruptions. The housing measures **142 × 100 × 92 mm**, providing a compact footprint for installation on a DIN rail, while its **IP20 rating** permits installation in ventilated electrical enclosures. Two sets of **2 × RJ45 Ethernet ports** support separate machine and plant networks, while CFast and MicroSD slots accommodate removable flash media for recipes, application files, or system images.

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Passive cooling eliminates moving fan components and allows the controller to dissipate heat without forced airflow. The available communication and storage connections are integrated directly into the housing, reducing the need for separate interface modules inside the cabinet.

Specifications

Control Software:	TwinCAT 3 Runtime (XAR)	**Core Count:**	4	**Dielectric Strength:**	500 V
Dimensions (w X H X D):	142 x 100 x 92 mm	**Flash Media:**	CFast Slot + MicroSD Slot	**Integrated Ups:**	1 s
Lan Ports:	2 x RJ45	**Main Memory:**	4 GB DDR3-RAM	**Max Power Use:**	16 W
Max Power Use (ups):	23 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3845, 1.91 GHz
Protection Rating:	IP20	**Usb Port Current:**	500 mA	**Usb Ports:**	4 x USB 2.0
Last Verified:	11/19/2026 9:54 AM				

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