Beckhoff — CX Embedded PC Systems

CX5120-0140



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The **CX5120-0140** is an embedded PC manufactured by Beckhoff within the CX Embedded PC Systems series. This fanless module functions as the central controller in small to midsize machines, replacing a separate PLC and industrial PC by combining processing, storage, and fieldbus connectivity in one DIN-rail unit. It is intended for deterministic control tasks, recipe handling, and data collection in automated packaging lines, material-handling cells, and building-management panels.

Computation is provided by a single-core **Intel Atom E3815 processor** that runs at **1.46 GHz**. The single-core design minimizes heat while still handling standard PLC cycle times. The **2 GB of DDR3 RAM** stores real-time variables, while 256 MB of shared graphics memory supports modest visualization screens without an external GPU. Program and log files can be placed on the CFast or MicroSD slot, providing removable flash storage for convenient access. The controller draws only **11 W at full load** from the machine's **24 V DC supply**, keeping cabinet power requirements low. Internal circuits withstand transients with dielectric strength up to 500 V, and the TwinCAT runtime is not preinstalled, allowing the appropriate license level to be loaded. An integrated one-second uninterruptible power supply maintains RAM integrity during brief power interruptions so that retained variables are not lost.

External expansion is supported by **four USB 2.0 ports**, each supplying 500 mA for touchscreens, storage devices, or other compatible peripherals. Two gigabit Ethernet jacks provide **two RJ45 connections** for EtherCAT or information technology networks. The housing has an **IP20 rating**, so the unit must be mounted in a protected

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enclosure that prevents exposure to water and small foreign objects. With overall dimensions of **122 × 100 × 92 mm**, the unit fits narrow control panels while leaving room for adjacent DIN-rail components. A local display can be driven through an optional DVI interface without placing excessive demand on the processor.

Specifications

Clock Speed:	1.46 GHz	**Core Count:**	1	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	122 x 100 x 92 mm	**Flash Storage:**	CFast Slot + MicroSD Slot	**Graphics Memory:**	256 MB (shared)
Integrated Ups:	1 s	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	11 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Protection Rating:	IP20	**Twincat Runtime:**	None	**Usb:**	4 x USB 2.0, 500 mA each
Last Verified:	11/19/2026 11:55 AM				

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