Beckhoff — CX Embedded PC Systems

CX5120-0162



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The **CX5120-0162** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. As a DIN-rail computer, it combines PLC logic and motion control in a single fanless housing for machine-level automation. Deployed as a compact control node, it executes TwinCAT tasks, manages fieldbus communication, and interfaces directly with I/O terminals.

The unit is powered by an **Intel Atom E3815** processor clocked at **1.46 GHz**. This single-core CPU supplies computing power for cyclic control loops while keeping the thermal load low. Control programs run in **2 GB of DDR3 RAM**, providing volatile storage for variables, buffers, and real-time data structures. HMI images use **256 MB of shared graphics memory** with the operating system, enabling local visualization without separate GPU hardware. Two Gigabit Ethernet ports with **2 × RJ45 connections supporting 10/100/1000 Mbit/s** link the controller to plant networks, field devices, or higher-level SCADA systems. Power is supplied at **24 V DC**, matching standard cabinet power rails and allowing direct connection to auxiliary power buses. These electrical and communication features support the installed TwinCAT 2 NC PTP runtime.

For removable peripherals, the front panel provides **four USB 2.0 ports rated at 500 mA** that can power touchscreens, service tools, or data storage devices without external hubs. Total internal power demand peaks at **11 W**, so heat dissipation remains manageable inside control enclosures. The housing measures **122 × 100 × 92 mm**, fitting alongside terminal blocks on a 35 mm rail while meeting the IP20 protection class for control cabinets. Dielectric strength of 500 V isolates the 24 V supply from the signal interfaces. An integrated one-second UPS

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capacitor preserves process states during short power interruptions. The 10 W E-bus/K-bus feed can power a stack of Beckhoff I/O terminals, allowing the embedded PC to act as both the CPU and power source for connected modules.

Specifications

Clock Frequency:	1.46 GHz	**Core Count:**	1	**Dielectric Strength:**	500 V
Dimensions:	122 x 100 x 92 mm	**E-bus/k-bus Power:**	10 W	**Graphics Memory:**	256 MB (Shared)
Lan Interface:	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:	TwinCAT 2 NC PTP Runtime	**Ups Backup:**	1 s	**Usb Interface:**	4 x USB 2.0, 500 mA
Last Verified:	11/20/2026 3:30 AM				

Contact Us

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