Beckhoff — CX Embedded PC Systems

CX5120-0110



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The **CX5120-0110** is an embedded PC manufactured by Beckhoff as part of the CX Embedded PC Systems series. Designed as the central logic unit for PLC, motion, and visualization tasks, the module combines functions that would otherwise require separate controllers in a unified platform. It mounts on a DIN rail next to EtherCAT or other fieldbus terminals, supporting compact installation in control cabinets. In automation cells, it executes user code, communicates with drives, and forwards process data to higher-level networks for coordinated machine control.

Processing is handled by a single-core **Intel Atom E3815 processor operating at 1.46 GHz**, which supports deterministic cycle times for logic and motion tasks. The controller includes **2 GB of DDR3 RAM**, allowing the real-time operating system and user programs to run without relying on paging. For visualization, an integrated GPU operates at **400 MHz** and accesses **256 MB of shared memory**, allowing small HMI applications to run directly on the device. Shader Model 5.0 support provides the basic DirectX functions used by compatible visualization and SCADA clients. Typical power consumption does not exceed **11 W**, reducing the amount of heat released into the control cabinet and permitting closely spaced I/O modules.

The unit accepts a **24 V DC supply** that connects directly to common control-cabinet power rails. A built-in uninterruptible power supply bridges power interruptions for up to **1 second**, allowing the controller to respond to a brief supply loss. Dielectric isolation rated at **500 V** protects the internal electronics from grounded field circuits and potential differences between connected systems. The housing carries an **IP20 protection rating** and is intended for installation inside a suitable enclosure. The unit measures 122 mm wide, 92 mm deep, and 100 mm high,

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allowing it to fit beside DIN-rail terminals without obstructing the required airflow. Its compact housing also helps keep communication and I/O wiring short within the cabinet.

Specifications

Core Count:	1	**Depth:**	92 mm	**Dielectric Strength:**	500 V
Graphics Base Clock:	400 MHz	**Graphics Memory:**	256 MB (shared memory)	**Height:**	100 mm
Integrated Ups:	1 s	**Main Memory:**	2 GB DDR3-RAM	**Max Power Draw:**	11 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3815 1.46 GHz	**Protection Rating:**	IP20
Shader Model:	5.0	**Width:**	122 mm	**Last Verified:**	11/19/2026 7:32 PM

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