Beckhoff — CX Embedded PC Systems

CX5120-0115



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The **CX5120-0115** is an embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. In a control cabinet, it acts as the central processor for PLC logic, fieldbus communication, and local visualization, allowing machine builders to combine control and HMI functions in one unit. Its fanless design supports quiet operation and eliminates routine fan maintenance in industrial automation systems.

Processing is handled by a **single-core Intel Atom E3815 processor operating at 1.46 GHz**, which maintains deterministic scan cycles while keeping the thermal load modest. The controller includes **2 GB of DDR3 RAM** for the real-time operating system, PLC variables, and user programs. Two independent Gigabit interfaces use **two RJ45 ports supporting 10/100/1000 Mbit/s**, enabling separate machine and plant networks without an external switch. The front panel provides **four USB 2.0 ports rated at 500 mA** for service devices, diagnostic adapters, and local storage media. The fanless housing measures **122 × 100 × 92 mm**, allowing side-by-side DIN-rail installation with I/O terminals while preserving space for convection airflow. Graphics output uses 256 MB of shared video memory, which supports moderate-resolution touch panels used for machine visualization. Dielectric strength of 500 V between the power supply and housing provides electrical separation within the cabinet.

Control power is supplied at **24 V DC**, and the internal power path provides an I/O supply current budget of 2 A for attached bus terminals and extension modules. Typical power consumption is **11 W**, while consumption can rise to 18 W when the onboard uninterruptible power supply is active. The uninterruptible power supply maintains operation for **1 second**, giving the operating system time to close files and store status markers before shutdown.

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The enclosure has an **IP20 protection rating**, so the unit must remain inside a protected cabinet where exposure to dust and moisture is controlled. Its DIN-rail format permits placement near drives, relays, and terminal assemblies without requiring a separate computer enclosure. Connections remain accessible from the front, simplifying access to network and USB ports after the surrounding control components are installed.

Specifications

Core Count:	1	**Dielectric Strength:**	500 V	**Dimensions:**	122 x 100 x 92 mm (W x H x D)
Graphics Memory:	256 MB (Shared)	**I/o Supply Current:**	2 A	**Integrated Ups:**	1 s
Lan Ports:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power:**	11 W
Max Power With Ups:	18 W	**Power supply:**	24 V DC	**Processor:**	Intel Atom E3815, 1.46 GHz
Protection Rating:	IP20	**Usb Ports:**	4 x USB 2.0, 500 mA	**Last Verified:**	11/19/2026 1:42 PM

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