Beckhoff — CX Embedded PC Systems

CX5120-0100



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The **CX5120-0100** embedded PC is manufactured by Beckhoff and belongs to the CX Embedded PC Systems series. Intended for modular control cabinets, the device acts as a central processing unit for TwinCAT automation software, enabling deterministic PLC execution, motion control, and data logging. Its architecture combines a processor, memory, power conditioning, and fieldbus-ready interfaces in a single enclosure, providing a scalable controller that can be expanded through Beckhoff I/O terminals without external PCs or rack-mounted servers.

Computing performance is delivered by a **1.46 GHz** single-core **Intel Atom E3815** processor, so cyclic control tasks run with low latency while keeping thermal output minimal. The board is equipped with **2 GB DDR3 RAM**, providing capacity for medium-sized PLC projects and local database buffering. Two Gigabit ports provide **2 × RJ45 ports with 10/100/1000 Mbit/s connectivity**, allowing EtherCAT real-time frames on one interface and office traffic on the other. The controller's electrical demand does not exceed **11 W**, which simplifies cabinet ventilation and enables uninterruptible backup from the integrated one-second UPS. A CFast slot and a MicroSD holder accommodate removable flash storage, while four USB 2.0 ports can supply up to 500 mA each for scanners, drives, or service dongles.

Onboard graphics include **256 MB** of dedicated memory, allowing the DVI-I output to drive HMIs at up to **1920 × 1200 pixels** without relying on external cards. The unit operates from a regulated **24 V DC** supply and withstands 500 V of dielectric strength between the power input and housing, supporting control panels that share common low-voltage rails. The aluminum housing measures **122 × 100 × 92 mm** and clips onto a DIN rail beside I/O slices.

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An automatic save function protects volatile data during brief outages. The processor's low thermal output also helps neighboring modules remain within their permitted temperature range.

Specifications

Clock Frequency:	1.46 GHz	**Core Count:**	1	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	122 x 100 x 92 mm	**Ethernet:**	2 x RJ45, 10/100/1000 Mbit/s	**Flash Media:**	CFast Slot + MicroSD Slot
Graphic Memory:	256 MB	**Integrated Ups:**	1 s	**Main Memory:**	2 GB DDR3-RAM
Max Dvi-i Resolution:	1920 x 1200	**Max Power Draw:**	11 W	**Power Supply:**	24 V DC
Processor:	Intel Atom E3815	**Usb:**	4 x USB 2.0	**Usb Port Current:**	500 mA
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Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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