Beckhoff — CX Embedded PC Systems

CX5120-0113



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The **CX5120-0113** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It combines a compact processing unit with fieldbus interfaces so machine builders can run PLC, motion, and visualization tasks on a single DIN-rail device. In an automation cabinet, it operates as the central controller, executing deterministic logic while linking to distributed I/O through EtherCAT and other industrial Ethernet protocols.

Computation is handled by an **Intel Atom E3815 at 1.46 GHz** processor that relies on a single core for deterministic scheduling. The processor shares **256 MB** of graphics memory clocked at **400 MHz**, allowing low-overhead HMI rendering without an add-on GPU. System tasks and real-time variables reside in **2 GB DDR3-RAM**. Two Gigabit Ethernet connections, presented as **2 × RJ45, 10/100/1000 Mbit/s**, support control-network redundancy or segregated IT traffic. Mass storage is modular: a CFast slot accommodates operating system images, and a MicroSD slot allows process data logging. The fanless assembly draws 10 W from the internal I/O bus at 5 V and supplies a maximum of 2 A to extension modules. Its dielectric strength of 500 V provides isolation between the supply and logic domains.

Four downstream ports rated as **4 × USB 2.0, 500 mA each** power barcode scanners, USB drives, or UPS monitoring cables. The controller is powered by a stabilized **24 V DC** source, and an integrated UPS bridges outages for 1 second so volatile data can be written to flash. Overall power consumption does not exceed **11 W**, keeping the thermal load low inside sealed enclosures. The aluminum housing measures **122 × 100 × 92 mm**, matching other

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CX modules for stacked installation.

Specifications

Dielectric Strength:	500 V	**Dimensions (W x H x D):**	122 x 100 x 92 mm	**Flash Storage:**	CFast slot + MicroSD slot
Graphic Memory:	256 MB (shared)	**Graphics Base Clock:**	400 MHz	**I/o Bus Power:**	10 W (5 V/max. 2 A)
Integrated Ups:	1 s	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	11 W	**Number Of Cores:**	1	**Power Supply:**	24 V DC
Processor:	Intel Atom E3815, 1.46 GHz	**Usb Ports:**	4 x USB 2.0, 500 mA each	**Last Verified:**	11/20/2026 12:31 PM

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