Beckhoff — CX Embedded PC Systems

CX5120-0155



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The **CX5120-0155** is an industrial embedded PC manufactured by Beckhoff and supplied within the CX Embedded PC Systems series. The compact controller combines an Intel Atom platform with fieldbus and I/O expansion capabilities, allowing it to execute PLC logic, motion tasks, and HMI services directly on the machine without a separate rack-mounted computer. Installed on a DIN rail inside a control cabinet, the device provides deterministic control processing for conveyors, packaging lines, and building automation while integrating with EtherCAT or other real-time networks.

The processor section carries a **single-core Intel Atom E3815** clocked at **1.46 GHz**. Its efficient design maintains low heat dissipation for fanless operation. System tasks execute from **2 GB of DDR3 RAM**, providing adequate volatile storage for the TwinCAT runtime, user programs, and cyclic data buffers. Display outputs share **256 MB of graphics memory**, which supports lightweight visualization without requiring a discrete GPU. Under continuous load, the computer draws a maximum of **11 W**, so it can operate from compact control power supplies. Nonvolatile data and operating system images reside on a CFast card, with an additional microSD slot available for recipe or log files.

Primary power enters through a three-pin terminal at **24 V DC**, and a built-in UPS bridges short power interruptions for one second to help prevent uncontrolled shutdowns. The computer provides **two RJ45 10/100/1000 Mbit/s ports** for network access and real-time communication. It also has **four USB 2.0 ports rated at 500 mA** for keyboards, storage devices, or barcode readers. The aluminum housing measures **122 × 100 × 92 mm** and has an

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IP20 rating, restricting installation to enclosed control panels. Electrical isolation to adjacent modules withstands up to 500 V, and the control section can connect to additional CX I/O slices when more digital or analog channels are required.

Specifications

Cpu Cores:	1	**Dielectric Strength:**	500 V	**Dimensions (W x H x D):**	122 x 100 x 92 mm
Flash Media:	CFast Slot + MicroSD Slot	**Graphics Memory:**	256 MB Shared	**Integrated Ups:**	1 s
Lan:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power Consumption:**	11 W
Processor:	Intel Atom E3815, 1.46 GHz	**Protection Rating:**	IP20	**Supply Voltage:**	24 V DC
Usb:	4 x USB 2.0, 500 mA Each	**Last Verified:**	11/19/2026 2:16 AM		

Contact Us

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