Beckhoff — CX Embedded PC Systems

CX5120-0175



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The **CX5120-0175** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It mounts on a DIN rail and integrates CPU, memory, and communication ports so that PLC logic, motion control, and visualization software can run in one compact node on the factory floor. By eliminating a separate industrial computer and fieldbus coupler, the device streamlines cabinet layouts while supplying deterministic control for conveyors, pick-and-place axes, and energy-management stations.

Processing tasks are handled by a **1.46 GHz** single-core CPU that supports short PLC scan cycles for time-critical routines. Program variables, runtime data, and the Windows or TwinCAT environment reside in **2 GB DDR3 RAM**, while 256 MB of shared graphics memory drives panel displays attached through DVI. The controller has **four USB 2.0 sockets** on the front for service drives, barcode readers, or local I/O adapters, while network traffic is separated across **two RJ45 Gigabit LAN ports** for machine-level and plant-level connections. The controller operates from a **24 V DC** supply, making it compatible with standard control-cabinet power rails.

The housing measures **122 × 100 × 92 mm**, allowing dense installation alongside terminal blocks while maintaining access to the CFast and MicroSD slots that host the operating system and recipe archives. During peak load, the platform draws only **11 W**, reducing thermal buildup in sealed enclosures. Integrated capacitors provide an uninterrupted power interval of **1 s**, allowing data to be written to flash memory during brownouts. All live circuits withstand a dielectric strength of **500 V** relative to the grounded control cabinet. Each USB channel can supply up to 500 mA for field sensors, and the internal I/O bus provides 10 W for EtherCAT terminals and specialty

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modules.

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	**Graphics Memory:**	256 MB (Shared)	**I/o Bus Power:**	10 W
Lan Ports:	2 x RJ45	**Main Memory:**	2 GB DDR3-RAM	**Max Power Consumption:**	11 W
Power Supply:	24 V DC	**Storage Media:**	CFast Slot, MicroSD Slot	**Ups Backup Time:**	1 s
Usb Port Current:	500 mA	**Usb Ports:**	4 x USB 2.0	**Last Verified:**	11/19/2026 1:51 PM

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Shipping Options

Payment Methods

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