Beckhoff — CX Embedded PC Systems

CX5020-0120



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The **CX5020-0120** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It combines PLC, motion control, and communication functions in a DIN-rail format so it can coordinate distributed I/O, drives, and HMI hardware on the plant floor. By integrating control logic and networking inside a single compact housing, the unit reduces cabinet space and wiring in industrial automation projects while still accepting standard fieldbus terminals through its E-Bus interface.

The controller operates at a clock frequency of **1.6 GHz** and uses an **Intel Atom Z530** processor. This processor balances real-time performance with low heat generation, which is important in fanless enclosures. System power is drawn from a **24 V DC** rail, allowing direct connection to common control-panel supplies without an intermediate converter. Two independent network ports use **2 × RJ45 connectors**, enabling separate machine and plant networks or a daisy-chain topology. The unit also provides **4 × USB 2.0 ports** for removable storage, touchscreens, and other compatible peripherals without requiring an expansion card.

The housing measures **100 × 106 × 92 mm**, so multiple PCs can be installed on a short DIN-rail section while leaving space for I/O terminals. Internal insulation withstands up to **500 Veff** of dielectric stress between the power supply and electronics, providing added protection during wiring faults. Typical power dissipation remains below **12.5 W**, permitting passive convection cooling in enclosed cabinets. The **IP20 enclosure rating** protects against contact with hazardous internal parts and solid objects larger than 12.5 mm, but it does not provide protection against water. Additional connections include a DVI-D interface for panel displays and a 2 A terminal supply output,

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allowing adjacent E-Bus modules to receive a local 24 V supply without extra wiring.

Specifications

Bus Interface:	E-Bus	**Clock Frequency:**	1.6 GHz	**Dielectric Strength:**	500 Veff
Dimensions (h X W X D):	100 x 106 x 92 mm	**Ethernet Ports:**	2 x RJ45	**Ethernet Speed:**	10/100/1000 Mbit/s
I/o Terminal Supply:	2 A	**Max Power Loss:**	12.5 W	**Power Supply:**	24 V DC
Processor:	Intel Atom Z530	**Protection Rating:**	IP20	**Twincat:**	None
Usb Ports:	4 x USB 2.0	**Video Output:**	DVI-D	**Last Verified:**	11/18/2026 7:46 AM

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