Beckhoff — CX Embedded PC Systems

CX5020-1121



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The **CX5020-1121** is an embedded PC manufactured by Beckhoff as part of the CX Embedded PC Systems series. This DIN-rail unit combines industrial PC performance with modular I/O, allowing it to function as the central controller for PLC, motion, and HMI tasks on a machine line. By integrating the power supply, processor, and fieldbus interface in a single housing, the embedded PC acts as the head station for attached terminal blocks.

Its processing core is an **Intel Atom Z530** running at **1.6 GHz**, providing processing capacity for deterministic control tasks and local data logging. The chipset accesses **512 MB of RAM**, which provides volatile storage for the TwinCAT runtime, user variables, and buffer queues. Field connectivity includes **two RJ45 Ethernet ports** that share one controller but support independent TCP/IP segments. The unit also has **four USB 2.0 ports** for service panels, mass storage devices, or barcode readers. A DVI-D socket delivers digital video to external monitors, while the nominal 24 V DC supply supports operation within its permitted input tolerance. Five diagnostic LEDs on the front indicate the run state, errors, and I/O activity, making device status easier to identify inside the cabinet.

The unit dissipates a maximum of **12.5 W**, so it can be installed in fanless enclosures when adequate convective airflow is available. The supply-to-ground dielectric withstand rating is **500 V RMS**, which helps protect internal circuits against transient wiring faults. The compact **100 × 106 × 92 mm housing** has an IP20 enclosure rating for installation in protected control cabinets. The internal backplane uses the **K-Bus** to power terminal slices and exchange data with them. The connected I/O terminals can draw up to 2 A before an external feeder module is required, and their power contacts can supply connected sensors and actuators. Ethernet connections automatically

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negotiate among 10, 100, and 1000 Mbit/s network speeds without requiring manual selection.

Specifications

Bus Interface:	K-Bus	**Clock Frequency:**	1.6 GHz	**Cpu Clock:**	1.6 GHz
Diagnostic Leds:	5	**Dielectric Strength:**	500 Veff	**Dimensions (h X W X D):**	100 x 106 x 92 mm
Display Interface:	DVI-D	**Ethernet:**	2 x RJ45, 10/100/1000 Mbit/s	**I/o Current:**	2 A
I/o Terminal Current:	2 A	**Lan Ports:**	2 x RJ45	**Lan Speed:**	10/100/1000 Mbit/s
Main Memory:	512 MB RAM	**Max Power Loss:**	12.5 W	**Nominal Supply:**	24 V DC
Power Loss:	12.5 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom Z530
Protection Class:	IP20	**Terminal Bus:**	K-Bus	**Usb Ports:**	4 x USB 2.0
Video Output:	DVI-D	**Last Verified:**	11/19/2026 2:21 PM		

Contact Us

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