Beckhoff — CX Embedded PC Systems

CX5020-1122



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The **CX5020-1122** is an embedded PC produced by Beckhoff and assigned to the CX Embedded PC Systems series. As a DIN-rail-mounted controller, it combines a CPU, fieldbus interfaces, and supply electronics in one housing, allowing it to run TwinCAT automation software and coordinate distributed I/O terminals at the machine level. Within an industrial control cabinet, the unit functions as the central logic device, executing PLC tasks and user interfaces while communicating with drives, sensors, and supervisory networks.

In operation, the embedded PC is driven by an **Intel Atom Z530** processor. This single-core device operates at **1.6 GHz**, providing deterministic execution for soft real-time PLC cycles without the thermal load of larger x86 platforms. The electronics draw from a **24 V DC** control supply commonly used in cabinet installations, and internal converters distribute power to the logic, communication, and storage sections. Under maximum load, the system dissipates only **12.5 W**, so passive convection through the aluminum housing is sufficient and no fan is required. Two Gigabit-capable Ethernet ports, configured as **2 × RJ45 ports supporting 10/100/1000 Mbit/s**, accommodate redundant control networks, fieldbus gateways, or direct machine-to-machine links.

Peripheral expansion is handled through **four USB 2.0 sockets** for HMI panels, data loggers, or wireless adapters. The integrated **DVI-D interface** allows a local monitor to present process graphics generated by the Intel GMA 500 graphics core. Modular signal processing is supported by the rear **K-Bus connection**, enabling Beckhoff terminals to share the internal 2 A I/O supply while maintaining 500 V RMS of dielectric strength between the field and logic circuits. With an enclosure rating of **IP20**, the housing is intended for closed control cabinets, and its 100 × 106 ×

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92 mm footprint allows placement beside standard terminal rows. A one-second UPS backup bridges brief brownouts so runtime data can be written to flash, preserving system integrity.

Specifications

Clock Speed:	1.6 GHz	**Dielectric Strength:**	500 Veff	**Dimensions (h X W X D):**	100 x 106 x 92 mm
Ethernet:	2 x RJ45, 10/100/1000 Mbit/s	**Graphics Core:**	Intel GMA 500	**I/o Current Supply:**	2 A
Max Power Loss:	12.5 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom Z530
Protection Class:	IP20	**Terminal Bus:**	K-Bus	**Ups Backup:**	1 s
Usb:	4 x USB 2.0	**Video Output:**	DVI-D	**Last Verified:**	11/20/2026 6:55 PM

Contact Us

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