Beckhoff — CX Embedded PC Systems

CX5020-1110



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The **CX5020-1110** is a DIN-rail-mounted embedded PC produced by Beckhoff within the CX Embedded PC Systems series. This compact controller integrates a CPU, memory, fieldbus interface, and power supply in one housing, allowing it to act as the central PLC and gateway in small and medium-sized machines. It regulates local K-Bus I/O slices, exchanges data over Gigabit Ethernet, and runs real-time logic under Windows Embedded CE 6.0 for deterministic motion, process, and building automation tasks.

Control performance is provided by an **Intel Atom Z530 1.6 GHz** CPU paired with **512 MB of RAM**, supporting deterministic cycle times for PLC code and HMI services. Program files, boot images, and log data reside on a **128 MB CompactFlash card**; this solid-state storage resists vibration better than rotating media. Two independent Gigabit Ethernet channels are available through **two RJ45 10/100/1000 Mbit/s ports** on the front, allowing separate machine and plant networks without an external switch. The electronics operate from a **24 V DC power source**, which simplifies wiring alongside sensors and actuators connected to the same power rail. Four USB 2.0 sockets support peripheral connections, while an integrated uninterruptible power supply provides one second of backup time to protect volatile data during brief outages.

Thermal load remains modest because the system consumes no more than **13 W**, so convection cooling inside an enclosure is usually sufficient. Cabinet planning is aided by its dimensions of **106 × 100 × 92 mm**, which leave space for K-Bus terminals supplied with up to 2 A of backplane current. The enclosure has an **IP20** rating, providing protection against accidental finger contact but requiring installation in a control cabinet that shields the unit from

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dust and liquids. For visualization, **one DVI-D port** drives digital panels at resolutions up to 1920 × 1080 without additional graphics hardware, while the available TwinCAT runtime options allow users to select the license set required for the application.

Specifications

Bus Current Supply:	2 A	**Dimensions (W x H x D):**	106 x 100 x 92 mm	**Ethernet Ports:**	2 x RJ45 10/100/1000 Mbit/s
Flash Memory:	128 MB CompactFlash	**I/o Bus:**	K-Bus	**Integrated Ups:**	1 s
Main Memory:	512 MB RAM	**Max Power Consumption:**	13 W	**Number Of Cores:**	1
Operating System:	Windows Embedded CE 6.0	**Power Supply:**	24 V DC	**Processor:**	Intel Atom Z530 1.6 GHz
Protection Rating:	IP20	**Twincat Software:**	None	**Usb Ports:**	4 x USB 2.0
Video Output:	1 x DVI-D	**Last Verified:**	11/19/2026 6:29 PM		

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