Beckhoff — CX Embedded PC Systems

CX5020-0110



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The **CX5020-0110** embedded PC is produced by Beckhoff within the CX Embedded PC Systems series. It combines an industrial-grade processor, solid-state storage, and modular I/O connectivity to serve as a compact PLC, HMI, and motion controller in distributed automation systems. Installed on a DIN rail beside fieldbus terminals, the device executes TwinCAT control tasks, coordinates remote modules over the E-Bus, and provides deterministic computing for machine cells, conveyors, and package-handling lines. Its compact format allows processing and control functions to be installed close to connected equipment without requiring a conventional desktop computer.

Computing and communication resources are centered on an **Intel Atom Z530 processor** operating at **1.6 GHz**. The onboard **512 MB of RAM** handles real-time variables and program code, while a **128 MB CompactFlash card** stores the operating system and user projects without rotating media. Network integration is provided by **two RJ45 10/100/1000 Mbit/s interfaces**, offering redundant or segmented Ethernet paths for EtherCAT, Modbus TCP, or standard IT communication. The separate network ports can isolate machine traffic from supervisory or plant-level connections when the control architecture requires distinct communication paths. The front panel also provides **four USB 2.0 ports** for connecting service computers, barcode readers, storage devices, or uninterruptible power supply modules.

Power is supplied through the control cabinet rail at **24 V DC**, and the electronics dissipate a maximum of **12.5 W**. This low power dissipation reduces the thermal load inside fanless control enclosures and supports installations with limited ventilation. An internal supply delivers up to 2 A to the E-Bus, allowing local terminal groups to receive

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power without additional feeds, while the passive backplane carries process data in real time. The housing has a **depth of 92 mm**, a height of 100 mm, and a width of 106 mm. These dimensions allow the unit to fit between standard terminal rows while leaving room for adjacent wiring ducts and conductors.

Specifications

Cpu Clock:	1.6 GHz	**Depth:**	92 mm	**Dielectric Strength:**	500 Veff
Ethernet Interface:	2 x RJ45, 10/100/1000 Mbit/s	**Flash Memory:**	128 MB Compact Flash	**Height:**	100 mm
I/o Bus:	E-Bus	**I/o Supply Current:**	2 A	**Main Memory:**	512 MB RAM
Max Power Loss:	12.5 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom Z530
Usb Ports:	4 x USB 2.0	**Video Interface:**	DVI-D	**Width:**	106 mm
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