Beckhoff — CX Embedded PC Systems

CX5020-0115



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The **CX5020-0115** is an embedded PC manufactured by Beckhoff and included in the CX Embedded PC Systems series. It combines a compact motherboard with fieldbus and I/O interfaces so it can run TwinCAT PLC or other automation software directly on the machine. By replacing separate controllers, this PC manages deterministic logic, motion sequences, and visualization tasks inside control cabinets. The fanless architecture simplifies maintenance and reduces the number of components in distributed control nodes.

Processing performance is provided by an **Intel Atom Z530** processor that runs at **1.6 GHz**, allowing deterministic cyclic task scheduling for medium-sized machines. System data and variables reside in **512 MB of RAM**, while program code and startup files are stored on a **128 MB CompactFlash card**, protecting them from power interruptions. Two independent Ethernet controllers support link speeds of **10/100/1000 Mbit/s**, enabling simultaneous operational technology and information technology networking without external switches. The architecture keeps peak current draw low, making the device suitable for cabinets with limited thermal capacity.

Supply power is provided at **24 V DC**, and internal regulation limits heat generation so that the system's maximum power loss does not exceed **12.5 W**. The housing meets the **IP20** protection class and measures 100 × 106 × 92 mm, so it fits alongside standard terminal blocks. The unit has **four USB 2.0 host ports** for service keys, wireless adapters, or uninterruptible power supply interfaces, while a single DVI-D connector provides digital video for operator panels. Two RJ45 sockets serve as the built-in network ports. A 2 A supply is routed to the adjacent I/O bus for sensor and actuator loads. The electrical insulation withstands a dielectric test voltage of 500 V

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RMS, supporting reliable operation when the controller shares an enclosure with higher-voltage drives.

Specifications

Clock Frequency:	1.6 GHz	**Dielectric Strength:**	500 Veff	**Dimensions (h X W X D):**	100 x 106 x 92 mm
Ethernet Speed:	10/100/1000 Mbit/s	**Flash Memory:**	128 MB Compact Flash	**I/o Current Supply:**	2 A
Main Memory:	512 MB RAM	**Max Power Loss:**	12.5 W	**Network Ports:**	2 x RJ45
Power Supply:	24 V DC	**Processor:**	Intel Atom Z530	**Protection Class:**	IP20
Usb Ports:	4 x USB 2.0	**Video Output:**	DVI-D	**Last Verified:**	11/18/2026 4:33 PM

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Shipping Options

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