Beckhoff — CX Embedded PC Systems

CX5020-0100



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The **CX5020-0100** is an embedded PC from Beckhoff within the CX Embedded PC Systems series. It combines control, visualization, and communication tasks in one DIN-rail module, allowing PLC logic and user interfaces to run directly on the controller without a separate industrial PC. The unit acts as the CPU segment of a modular automation stack, and matching I/O terminals attach to the right-hand side to create a compact station for motion, safety, or process control.

An **Intel Atom Z530** processor forms the computing core and executes real-time tasks at a clock frequency of **1.6 GHz**. The operating system and user programs reside in **128 MB of CompactFlash storage**, while volatile data and variables are buffered in **512 MB of RAM**. The rear panel provides **four USB 2.0 ports** for service devices, local HMI panels, or removable media. System expansion on the right uses the E-bus so that power and field signals propagate automatically to digital and analog terminal blocks. The backplane delivers up to 2 A to those modules, eliminating the need for separate power wiring. Two front RJ45 ports provide a switched Ethernet interface for programming or plant networks, while an integrated watchdog monitors system operation.

Data exchange with supervisory systems uses a link speed of **10/100/1000 Mbit/s**. The two Ethernet ports support a line topology, removing the need for an external switch in small automation cells. A graphics controller feeds a single **DVI-D connector**, allowing dashboards to be displayed on an industrial monitor without signal conversion. Incoming power is supplied by a regulated **24 V DC source**, and the embedded PC dissipates no more than **12.5 W**, helping maintain predictable cabinet temperatures. The housing measures 100 mm × 106 mm × 92 mm and fits

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shallow enclosures. Its dielectric strength of 500 V RMS protects internal circuits from electrical stress when adjacent modules carry higher voltages.

Specifications

Cpu Clock:	1.6 GHz	**Depth:**	92 mm	**Dielectric Strength:**	500 Veff
Ethernet Ports:	2 x RJ45	**Ethernet Speed:**	10/100/1000 Mbit/s	**Flash Memory:**	128 MB Compact Flash
Height:	100 mm	**I/o Bus:**	E-Bus	**I/o 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 Output:**	1 x DVI-D
Width:	106 mm	**Last Verified:**	11/19/2026 4:36 AM		

Contact Us

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