Beckhoff — CX Embedded PC Systems

CX5020-1125



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The **CX5020-1125** is an embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. In a control cabinet, it functions as the central processing unit for PLC, motion, and HMI tasks, combining real-time control with standard IT protocols in one compact unit. The device integrates fieldbus couplers, I/O power distribution, and operating system hardware into a housing that is 106 mm wide and 100 mm high, allowing machine builders to mount a scalable controller directly beside decentralized terminals.

The processor runs at **1.6 GHz**, providing deterministic cycle times for TwinCAT 3 XAR tasks while keeping thermal output moderate. Its **Intel Atom Z530** CPU is a single-core, in-order processor that balances x86 compatibility with low power consumption. A regulated **24 V DC input** feeds the internal power supply, and the I/O subsystem can draw up to 2 A from this rail without external converters. Two independent Gigabit adapters use **two RJ45 sockets** to support segmented machine networks or redundant links to supervisory systems. Removable media, service tools, and operator panels connect through **four USB 2.0 ports**, enabling local data logging and configuration updates without additional hubs.

Field-level expansion is handled through the **K-Bus interface**, allowing legacy Beckhoff terminal blocks to be attached without changing project code. The controller limits internal power dissipation to **12.5 W**, allowing fanless operation in densely populated cabinets. For dielectric isolation, the supply and signal sections withstand **500 Veff**, improving resistance to cross-coupled transients in mixed-voltage machines. Despite its integrated power electronics and metal heat spreader, the unit weighs only **575 g**, which simplifies DIN-rail mounting and reduces

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vibration stress on adjacent modules. Its depth is 92 mm, permitting installation in shallow enclosures while leaving clearance for the front-mounted DVI-D display port.

Specifications

Bus Connection:	K-Bus	**Clock Frequency:**	1.6 GHz	**Control Software:**	TwinCAT 3 XAR
Depth:	92 mm	**Dielectric Strength:**	500 Veff	**Ethernet Interfaces:**	2 x RJ45
Height:	100 mm	**I/o Supply Current:**	2 A	**Max Power Loss:**	12.5 W
Power Supply:	24 V DC	**Processor:**	Intel Atom Z530	**Usb Interfaces:**	4 x USB 2.0
Video Interface:	DVI-D	**Weight:**	575 g	**Width:**	106 mm
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