Beckhoff — CX Embedded PC Systems

CX5130-0123



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The **CX5130-0123** embedded PC is produced by Beckhoff as part of the CX Embedded PC Systems series. Designed for DIN-rail mounting inside machine cabinets, the unit combines PLC logic, axis control, and HMI functions inside a compact industrial controller. By integrating standard PC architecture with deterministic fieldbus interfaces, the product serves as the central automation controller for conveyor cells, packaging lines, and continuous-process equipment.

In continuous operation, the system is driven by an **Intel Atom E3827** processor that runs at a core frequency of **1.75 GHz**. Two execution cores permit multitasking between real-time control threads and Windows services, while 256 MB of shared graphics memory supports local visualization. The main program space is held in **4 GB DDR3 RAM**, allowing sizable TwinCAT tasks and user applications. An embedded **Windows Embedded Standard 7 P 32-bit** image resides on the internal flash card and provides the familiar Microsoft API set for engineering tools. Electrical loading stays moderate, with a peak draw of **14 W**, so the module can be cooled passively in most cabinets. A dielectric strength of 500 V separates supply and signal circuits, and two RJ45 ports provide independent Ethernet segments for fieldbus or IT traffic.

The factory-installed **TwinCAT 2 NC I Runtime** executes interpolated path control directly on the CPU, eliminating separate motion cards and simplifying wiring. Network throughput scales to **10/100/1000 Mbit/s**, so EtherCAT gateways or cloud logging can share the same hardware without saturating the bus. The **four front-panel USB 2.0 sockets** support service keyboards, removable data storage, or wireless adapters. An uninterruptible power supply

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extends computing time by one second and transfers 1 MB of process data to nonvolatile memory during a power loss. The housing carries an **IP20** rating, making it suitable for sheltered cabinet environments. Maximum system demand with the UPS option rises to 20 W, which aids power budgeting alongside auxiliary I/O modules.

Specifications

Clock Frequency:	1.75 GHz	**Control Software:**	TwinCAT 2 NC I Runtime	**Core Count:**	2
Dielectric Strength:	500 V	**Graphic Memory:**	256 MB (Shared)	**Lan Ports:**	2 x RJ45
Lan Speed:	10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM	**Max Power Consumption:**	14 W
Max Power With Ups:	20 W	**Operating System:**	Windows Embedded Standard 7 P 32-bit	**Processor:**	Intel Atom E3827
Protection Rating:	IP20	**Ups Backup Time:**	1 s	**Ups Data Capacity:**	1 MB
Usb Ports:	4 x USB 2.0	**Last Verified:**	11/19/2026 4:50 PM		

Contact Us

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