Beckhoff — CX Embedded PC Systems

# CX5130-0113




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The **CX5130-0113** is an embedded PC controller manufactured by Beckhoff for the CX Embedded PC Systems series. The module combines an industrial CPU, fieldbus connectivity, and solid-state storage in a DIN-rail package, allowing it to serve as the central PLC, motion kernel, and HMI host for automated lines, packaging units, or building systems. By executing deterministic control cycles near the machine, it reduces network latency and eliminates the need for a separate panel PC. Its compact format supports installation in control cabinets while retaining access through standard IT interfaces.

The CX5130-0113 is built around an **Intel Atom E3827 processor operating at 1.75 GHz** with two cores, enabling the TwinCAT 2 NC I runtime to allocate real-time threads independently of user programs. A main memory capacity of **4 GB DDR3 RAM** supports sizable logic projects and buffered process data. The DVI-I interface drives high-resolution operator displays, while the Ethernet section provides **two RJ45 ports with 10/100/1000 Mbit/s connections** for SCADA systems, fieldbus gateways, or remote access. Peak electrical demand reaches only **14 W**, and the device draws power through a 24 V DC supply rail with a dielectric strength of 500 V. The cabinet-grade **IP20 enclosure** is intended for protected indoor installation.

Removable media options include a CFast slot and a microSD slot for operating system images and data logging. The graphics system uses **256 MB of shared system memory** operating at **542 MHz**, providing adequate bandwidth for animated dashboards. The housing measures **142 × 100 × 92 mm** and weighs **1095 g**, allowing multiple controllers to be mounted without placing excessive loads on the DIN rail. Four USB 2.0 ports provide

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connections for input devices, storage media, and other compatible peripherals, with each port supplying up to 500 mA. A one-second uninterruptible power supply buffer preserves volatile data during brief outages and helps prevent uncontrolled shutdowns.

## Specifications

| | | | | | |
|---|---|---|---|---|---|
| **Control Runtime:** | TwinCAT 2 NC I Runtime | **Core Count:** | 2 | **Cpu Cores:** | 2 |
| **Dielectric Strength:** | 500 V | **Dimensions:** | 142 x 100 x 92 mm | **Dimensions (w X H X D):** | 142 x 100 x 92 mm |
| **Display Interface:** | DVI-I | **Flash Storage:** | CFast Slot, MicroSD Slot | **Graphic Memory:** | 256 MB (Shared Memory) |
| **Graphics Base Clock:** | 542 MHz | **Graphics Memory:** | 256 MB (Shared) | **Lan Ports:** | 2 x RJ45, 10/100/1000 Mbit/s |
| **Main Memory:** | 4 GB DDR3-RAM | **Max Power Consumption:** | 14 W | **Power Supply:** | 24 V DC |
| **Processor:** | Intel Atom E3827, 1.75 GHz | **Protection Rating:** | IP20 | **Storage Slots:** | CFast Slot + MicroSD Slot |
| **Supply Voltage:** | 24 V DC | **Ups Backup:** | 1 s | **Usb Ports:** | 4 x USB 2.0, 500 mA Each |
| **Weight:** | 1095 g | **Last Verified:** | 11/19/2026 7:20 PM | | |

## Contact Us


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