Beckhoff — CX Embedded PC Systems

CX5130-0130



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The **CX5130-0130** is an embedded PC manufactured by Beckhoff and supplied under the CX Embedded PC Systems series. As a DIN-rail-mounted controller, it combines PLC, motion control, and visualization functions in one compact housing for machine-level automation. The unit forms the central processing element of modular I/O stations, executing TwinCAT or other runtime environments to coordinate fieldbus devices, HMI panels, and higher-level networks. This arrangement allows the controller to manage local automation tasks while exchanging operating data with supervisory systems.

The hardware centers on an Intel Atom E3827 processor running at **1.75 GHz**, and its **two logical cores** support deterministic control loops and background services. System memory is provided by **4 GB of DDR3 RAM**, while graphics tasks rely on an integrated controller with **256 MB of video memory**. External displays connect through a DVI-I port that supports resolutions up to **1920 × 1200 pixels** for local diagnostics and visualization. Two RJ45 sockets provide 10/100/1000 Mbit/s Ethernet connections for machine networks or IT integration, and four USB 2.0 ports supply 500 mA each for peripheral devices. Mass storage is supported through one CFast slot and one MicroSD slot, allowing the operating system and application data to reside on separate media. The factory image includes Windows Embedded Standard 7 P 64-bit, while the required TwinCAT runtime license and version are selected separately.

Power consumption remains within **14 W at full load**, and the device operates from a single **24 V DC supply** that can be shared with adjacent I/O terminals. Its enclosure meets the **IP20 protection standard**, providing finger-

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safe protection for installation inside a control cabinet. Electrical isolation from surrounding modules is supported by a dielectric strength of 500 V, adding resilience against faults in connected field wiring. The aluminum housing measures **142 × 100 × 92 mm**, allowing it to fit inside shallow control panels while retaining convection paths for heat from the processor and chipset. Its DIN-rail format also places the communication ports and removable storage interfaces within reach for routine system access.

Specifications

Cpu Clock:	1.75 GHz	**Cpu Cores:**	2	**Dielectric Strength:**	500 V
Dimensions (w X H X D):	142 x 100 x 92 mm	**Graphics Memory:**	256 MB	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Dvi Resolution:**	1920 x 1200	**Max Power:**	14 W
Operating System:	Windows Embedded Standard 7 P 64-bit	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3827
Protection Rating:	IP20	**Storage Slots:**	1 x CFast, 1 x MicroSD	**Twincat:**	None
Usb:	4 x USB 2.0, 500 mA each	**Last Verified:**	11/19/2026 11:40 AM		

Contact Us

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