Beckhoff — CX Embedded PC Systems

CX2030-0130



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The **CX2030-0130** is an embedded PC manufactured by Beckhoff within the CX Embedded PC Systems series. It serves as the central controller for DIN-rail-mounted I/O terminals, enabling deterministic motion, logic, and visualization tasks directly on the machine floor. By combining the processor, fieldbus interfaces, and power supply sections in one housing, it eliminates the need for separate industrial PC and communication modules in many automation systems.

Computing power is delivered by an Intel Core i7 2610UE processor running at **1.5 GHz**. Its dual-core design keeps control cycle times low while allowing one core to manage user interfaces and the other to execute control loops. A soldered **2 GB DDR3 RAM** array stores the real-time operating system and application variables, while 128 kB of NovRAM provides battery-free retention for remanent data. The unit has **2 × RJ45 ports** that support Gigabit Ethernet connections for EtherCAT and standard TCP/IP traffic. Maximum power consumption is **27 W**, which limits heat buildup inside the control cabinet. The unit accepts a control voltage of **24 V DC (-15%/+20%)**, making it compatible with common industrial power supplies.

The housing measures 144 × 99 × 91 mm, and an integrated power feed supplies 2 A to the adjacent I/O terminal row. The DVI-I graphics output supports a maximum resolution of **1920 × 1200**, providing sufficient display space for detailed operator interfaces. Four front-mounted connectors provide **4 × USB 2.0 ports**, with each port supplying up to 500 mA for scanners, service peripherals, or removable storage devices. A dielectric strength of **500 V** isolates the internal circuitry from transients originating in the field wiring. The internal CFast socket supports

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media with a minimum capacity of **40 GB**, providing solid-state storage for operating systems, application files, and production data without moving parts. The operating environment can be selected according to the required PLC, motion-control, visualization, or data-processing role.

Specifications

Cpu Clock:	1.5 GHz	**Cpu Cores:**	2	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	144 x 99 x 91 mm	**Ethernet:**	2 x RJ45, 10/100/1000 Mbit/s	**I/o Terminal Supply:**	2 A
Main Memory:	2 GB DDR3-RAM	**Max Dvi-i Resolution:**	1920 x 1200	**Max Power Consumption:**	27 W
Min Cfast Capacity:	40 GB	**Novram:**	128 kB	**Power Supply:**	24 V DC (-15 %/+20 %)
Processor:	Intel Core i7 2610UE	**Twincat Runtime:**	None	**Usb:**	4 x USB 2.0, 500 mA each
Last Verified:	11/20/2026 12:30 AM				

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