Beckhoff — CX Embedded PC Systems

CX2030-0113



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The **CX2030-0113** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. Designed to serve as a compact control node in industrial automation cells, it combines an Intel Core i7-2610UE processor with integrated I/O so that PLC, motion, and visualization tasks can run on a single DIN-rail module. When loaded with TwinCAT 2 NC-I Runtime, the unit executes deterministic axis control and communicates directly with fieldbus terminals.

At the heart of the system, the dual-core processor clocks at **1.5 GHz**, providing deterministic cycle times for IEC 61131-3 tasks. The main memory of **2 GB DDR3-RAM** holds the real-time operating kernel, HMI pages, and buffered process data without paging to disk. Energy drawn from the cabinet supply stays low, peaking at **27 W**, so fanless convection cooling is sufficient in typical enclosures. Control voltage is supplied at **24 V DC**, allowing direct connection to standard control power rails without additional converters. Network communication occurs over **2 × RJ45 10/100/1000 Mbit/s** ports, enabling separate links for machine-level control networks and plant IT.

Program and recipe files reside on a **40 GB** CFast card that withstands vibration better than rotating media, while diagnostic logs can be offloaded through **4 × USB 2.0 500 mA** ports for service tools or wireless adapters. The integrated Intel HD Graphics 3000 controller shares **128 MB** of system memory, enough for local HMI displays driven through optional DVI modules. Electrical isolation between I/O groups and the system logic is verified up to **500 V** dielectric strength, improving resistance to transient field wiring faults. Additional features include 128 kB of NVRAM for battery-free persistent data and housing dimensions of 144 × 99 × 91 mm for space-restricted cabinets.

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The unit operates under Windows Embedded Standard 7 P (32-bit), which supports compatible drivers and applications.

Specifications

Control Software:	TwinCAT 2 NC-I Runtime	**Core Count:**	2	**Cpu Frequency:**	1.5 GHz
Dielectric Strength:	500 V	**Dimensions (W x H x D):**	144 x 99 x 91 mm	**Graphics Memory:**	128 MB (Shared Memory)
Lan Ports:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power Consumption:**	27 W
Min Cfast Capacity:	40 GB	**Novram:**	128 kB	**Operating System:**	Windows Embedded Standard 7 P (32-bit)
Power Supply:	24 V DC	**Processor:**	Intel Core i7-2610UE	**Processor Graphics:**	Intel HD Graphics 3000
Usb Ports:	4 x USB 2.0, 500 mA	**Last Verified:**	11/18/2026 9:15 PM		

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