Beckhoff — CX Embedded PC Systems

CX2030-0143



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The **CX2030-0143** belongs to the CX Embedded PC Systems series manufactured by Beckhoff. As a DIN-rail-mountable embedded PC, it combines PLC logic, motion control, and visualization functions within a single industrial controller. By running the TwinCAT 2 NC-I Runtime, the unit executes deterministic IEC 61131-3 programs that coordinate axes, collect process data, and forward results to supervisory networks through its integrated Ethernet interface. Its compact format allows these automation functions to operate near the connected terminal blocks and machine interfaces.

An **Intel Core i7-2610UE** dual-core processor clocked at 1.5 GHz handles real-time execution, while the chipset shares rendering duties with Intel HD Graphics 3000. Applications use **2 GB of DDR3 RAM**, and nonvolatile events are buffered in 128 kB of NOVRAM. Two Gigabit Ethernet channels presented through **two RJ45 connectors** support control networks or stacked fieldbus couplers. The controller accepts a regulated **24 V DC supply** and draws up to **27 W** under maximum CPU and I/O load. Its dimensions of 144 × 99 × 91 mm and weight of 1,165 g allow installation in shallow cabinets next to terminal blocks. The die-cast housing and internal heat sinks dissipate power without a fan, while TwinCAT services monitor the temperature and initiate an orderly shutdown if operating thresholds are exceeded.

External peripherals connect through **four USB 2.0 ports**, each of which can supply 500 mA for scanners, storage drives, or HMI panels. HMI images are cached in **128 MB of shared graphics memory** to maintain stable update rates at high screen resolutions. The system provides a dielectric strength of **500 V** between the power supply and

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protective earth. Its electronics are protected against accidental contact by an **IP20 enclosure**. The combination of USB connectivity and shared graphics memory supports local visualization without requiring a separate computer. Integrated Ethernet communication also allows the controller to exchange process information with supervisory systems while executing multi-axis interpolation and other real-time control tasks.

Specifications

Control Software:	TwinCAT 2 NC-I Runtime	**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	**Novram:**	128 kB	**Power Supply:**	24 V DC (-15%/+20%)
Processor:	Intel Core i7 2610UE, 1.5 GHz, Dual-Core	**Processor Graphics:**	Intel HD Graphics 3000	**Protection Class:**	IP20
Usb Ports:	4 x USB 2.0, 500 mA, Type A	**Weight:**	1165 g	**Last Verified:**	11/20/2026 3:20 PM

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