Beckhoff — CX Embedded PC Systems

CX2030-0125



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The **CX2030-0125** is a DIN-rail-mounted embedded PC built by Beckhoff within the CX Embedded PC Systems series. Designed as a fanless controller for decentralized cabinets, it replaces separate PLC, motion controller, and operator panel hardware in small to midrange machines. The TwinCAT 3 runtime installed on the unit executes IEC 61131-3 logic, coordinates drives, and publishes process data to higher-level networks, so the platform can serve as the core of discrete manufacturing and building automation nodes.

An Intel Core i7 2610UE dual-core processor operates at **1.5 GHz**, providing processing capacity for multitasking PLC and visualization jobs. Program variables and user data reside in **2 GB of DDR3 RAM**, so midsize projects with oscillation traces or recipe tables fit without external memory cards. Even under full load, the controller draws only **27 W**, which eases cabinet thermal management when convection cooling is used. The power section accepts a single **24 V DC supply**, allowing direct connection to common control power supplies without additional converters. Two independent gigabit channels use **two RJ45 sockets**, permitting the separation of machine I/O traffic from plant-wide IT communication or supporting a simple redundant ring.

For visualization, an integrated DVI-I output renders up to **1920 × 1200 pixels**, so a single cable can feed a widescreen touch panel without a converter. Persistent process data are written to a CFast module with a minimum capacity of **40 GB**, while a separate NOVRAM block with **128 kB** of capacity secures nonvolatile flags during power loss without wearing the flash media. Four USB 2.0 ports accommodate service keyboards or fieldbus adapters, and the housing withstands control-voltage surges with a dielectric strength of up to 500 V. All electronics sit inside a

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compact 144 × 99 × 91 mm aluminum housing with **IP20 protection**, making the device suitable for clean, closed control cabinets where exposure to dust and moisture is limited.

Specifications

Control Software:	TwinCAT 3 Runtime (XAR)	**Cpu Clock:**	1.5 GHz	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	144 x 99 x 91 mm	**Ethernet Ports:**	2 x RJ45	**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	**Processor:**	Intel Core i7 2610UE
Processor Cores:	2	**Protection Class:**	IP 20	**Usb Ports:**	4 x USB 2.0
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