

Beckhoff — CX Embedded PC Systems

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The **CX2030-0130-1002** is an embedded PC manufactured by Beckhoff within the CX Embedded PC Systems series. It provides the computational layer for industrial automation, replacing standalone PLCs with a PC-based platform that can execute real-time control, visualization, and data-handling tasks in a single enclosure. By integrating field networking and application software on one device, the controller streamlines machine design and supports deterministic operation on assembly lines, material-handling stations, and process skids.

Processing performance is centered on an **Intel Core i7-2610UE** processor that operates at **1.5 GHz**. Its two physical cores enable simultaneous execution of motion loops, user programs, and diagnostic services without an external coprocessor. System memory consists of **2 GB of DDR3 RAM** for code execution and buffering, supported by 128 kB of NOVRAM that preserves critical variables during power loss. Mass storage is provided by a CFast card with a minimum capacity of **40 GB**, leaving room for embedded operating systems and historical data. Network traffic is routed through **two RJ45 Ethernet interfaces**, allowing control and enterprise traffic to be separated or the links to be configured for redundancy.

The controller accepts a nominal supply of **24 V DC** and draws up to **27 W** under maximum load, so it can share a low-voltage rail with sensors and I/O slices. A dielectric strength of 500 V isolates internal circuits from transient faults on the power bus. The **IP20 protection rating** provides protection against finger contact when the unit is installed inside a closed control panel. Four USB 2.0 ports are available for removable media or service devices, and each port can supply up to 500 mA. Overall dimensions of **144 x 99 x 91 mm** allow the controller to fit in shallow

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enclosures and help preserve space for wiring, power supplies, and adjacent I/O modules. Its compact enclosure also supports organized cabinet layouts where available mounting depth is limited.

Specifications

Control software:	TwinCAT 2 & TwinCAT 3 runtimes (XAR)	CPU:	Intel Core i7-2610UE @ 1.5 GHz	Cpu Clock:	1.5 GHz
CPU cores:	2	Diagnostic LEDs:	1×power, 1×TC status, 1×flash, 2×bus	Dielectric Strength:	500 V
Dimensions:	144 mm × 99 mm × 91 mm	Dimensions (w X H X D):	144 x 99 x 91 mm	Ethernet Ports:	2 x RJ45
Flash memory:	20 GB or 40 GB CFast card, expandable	Main memory:	2 GB DDR3-RAM	Max power consumption:	27 W
Min Cfast Capacity:	40 GB	Network interfaces:	2×RJ45, 10/100/1000 Mbit/s	Novram:	128 kB
Operating systems:	WEC7; WES7P; Win10 IoT Ent 2016 LTSB; TwinCAT/BSD	Operating temperature:	-25...+60 °C	Optional interface:	1× (user-defined)
Power supply:	24 V DC (-15%/+20%)	Processor:	Intel Core i7-2610UE	Protection Class:	IP 20
Protection rating:	IP20	Storage temperature:	-40...+85 °C	Supply Voltage:	24 V DC
Usb Port Current:	500 mA	USB ports:	4 x USB 2.0	Video interface:	1×DVI-I
Weight:	approx. 1165 g	Last Verified:	10/23/2026 5:36 PM		

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Shipping Options



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