Beckhoff — CX Embedded PC Systems

CX2030-0150



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The **CX2030-0150** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. Designed as a DIN-rail controller, it combines Intel CPU processing with integrated bus terminals to execute TwinCAT real-time tasks and coordinate distributed I/O stations in industrial automation cells. By combining traditional PLC functions with Windows-based visualization in one fanless unit, it simplifies cabinet layouts on conveyors, packaging lines, and material-handling machines. Its compact format allows the controller to be installed near other automation components while retaining the processing resources required for control and visualization tasks.

Beneath its aluminum housing, the unit accepts a **24 V DC** supply and draws up to **27 W** at full load, allowing its demand to be included in the cabinet power budget. System responsiveness is supported by **2 GB of DDR3 RAM**, while **128 MB of shared graphics memory** supports the user interface. The controller has **two RJ45 ports with 10/100/1000 Mbit/s Ethernet** for connecting machine devices and separate higher-level networks. Internal nonvolatile resources include 40 GB of CFast storage and 128 kB of NOVRAM for retaining process data when power is removed. The USB interfaces provide a combined bus current of 500 mA for connected devices. The PC provides 500 V of dielectric strength between the supply and ground, helping isolate the power input from the grounded housing. Its dimensions are 144 × 99 × 91 mm, keeping the installation footprint compact within a control cabinet.

Operator connections are grouped on the front for direct access during configuration and routine operation. The unit has **four USB 2.0 Type-A sockets** for connecting service laptops, scanners, input devices, or backup drives without an additional hub. Visual output is provided through a **DVI-I port** that supports display resolutions up to

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1920 × 1200, allowing detailed dashboards to be shown on compatible line-side monitors. The electronics have an **IP20 protection rating**, which protects against contact with hazardous internal parts and intrusion by certain solid objects. Because the enclosure does not provide protection against water, the controller requires installation inside a suitable control cabinet. The available Ethernet, USB, and display connections support deterministic machine control, local visualization, data collection, and communication with supervisory systems.

Specifications

Dielectric Strength:	500 V	**Dimensions:**	144 x 99 x 91 mm	**Graphics Memory:**	128 MB (Shared Memory)
Lan Interfaces:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Dvi Resolution:**	1920 x 1200
Max Power Consumption:	27 W	**Minimum Cfast Capacity:**	40 GB	**Novram:**	128 kB
Power Supply:	24 V DC	**Protection Rating:**	IP20	**Usb Interfaces:**	4 x USB 2.0 Type A
Usb Port Current:	500 mA	**Video Output:**	DVI-I	**Last Verified:**	11/19/2026 10:09 PM

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