

Beckhoff — CX Embedded PC Systems

CX1030-0013



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The **CX1030-0013** is an embedded PC module from Beckhoff. It belongs to the CX Embedded PC Systems series and functions as a compact, PLC-class controller for industrial automation tasks. By combining a PC processor, a real-time operating environment, and fieldbus interfaces in a DIN-rail form factor, it provides deterministic control logic and motion coordination directly on the machine.

The computing section operates at **1.8 GHz** using an **Intel Pentium M** processor, giving the controller the bandwidth needed for multitasking IEC 61131-3 programs and HMI services. Working data are buffered in **256 MB of DDR RAM**, while system software and user projects are retained on a **64 MB CompactFlash card** that preserves its contents through power cycles. Two onboard Ethernet ports with **two RJ45 connectors** support soft real-time communication with distributed I/O and supervisory networks. The module omits DVI and USB interfaces, reducing unnecessary panel connections in cabinet-mounted installations and preserving electromagnetic compatibility margins.

Mechanical integration is simplified by a depth of **99 mm**, a width of 96 mm, and a height of 112 mm, allowing the PC to fit into shallow control enclosures beside I/O terminals. The enclosure has an **IP20** protection rating, so the device is intended for installation inside a protected control cabinet with suitable airflow. Electrical loading on the 24 V supply remains low, and the electronics dissipate a maximum of **11 W** under full computational load. Expansion for nonvolatile media or optional fieldbus modules is available through a single Type I+II CompactFlash slot. Internal peripheral communication uses a **16-bit ISA (PC/104)** system bus that maintains compatibility with many Beckhoff

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add-on cards. Control execution is handled by the TwinCAT NCI Runtime package, which supplies NC interpolation and PLC logic in one software environment.

Specifications

Clock Frequency:	1.8 GHz	Control software:	TwinCAT NCI Runtime	Cooling:	Speed-controlled replaceable dual ball-bearing fans
CPU cores:	1	Depth:	99 mm	Dimensions:	96 x 112 x 99 mm (W x H x D)
Dvi/usb:	No	Ethernet interfaces:	2 x RJ45 10/100 Mbps (internal switch)	Ethernet Ports:	2 x RJ45
Expansion slot:	1 x Compact Flash Type I+II	Flash memory:	64 MB Compact Flash	Height:	112 mm
LED indicators:	1 power, 2 LAN link/activity, 1 TC status, 1 flash access	Main Memory:	256 MB DDR-RAM	Max power consumption:	32 W
Max Power Loss:	11 W	Operating system:	Windows Embedded CE 6 or Embedded Standard 2009	Processor:	Intel Pentium M
Protection Class:	IP20	RAM:	256 MB DDR (expandable to 1 GB)	Real-time clock:	Battery-backed, exchangeable battery
System bus:	16-Bit ISA (PC104)	Weight:	Approx. 580 g	Width:	96 mm
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Contact Us

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