

Beckhoff — CX Embedded PC Systems

CX1030-0012-1003



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The **CX1030-0012-1003** is an embedded PC controller manufactured by Beckhoff within the CX Embedded PC Systems series. The unit combines a PC-class processor, fieldbus interfaces, and onboard I/O in a DIN-rail module intended to serve as the central PLC and HMI host in machine-level automation cells. Its housing is designed for direct cabinet installation, allowing signal terminals and network couplers to be stacked on either side for deterministic control of drives, sensors, and safety modules.

At the core of the controller is an **Intel Pentium M** CPU running at **1.8 GHz**, allowing motion sequences and visualization tasks to run without a cooling fan. Real-time variables are buffered by **256 MB DDR-RAM**, giving TwinCAT sufficient space for logic, recipes, and communication stacks. Operating system files and user data reside on a removable **64 MB Compact Flash** module that can be accessed through the front panel. Two Ethernet channels use **two RJ45 connectors**, while an internal switch forwards traffic between them. This arrangement simplifies line-topology wiring among drives, operator panels, and supervisory networks.

Internal power dissipation is limited to **11 W**, so the device can be cooled by natural convection within a suitable enclosure. The housing has an **IP20** rating, which provides protection against contact with internal components but requires cabinet installation where dust or moisture may be present. Time-stamped data logging is supported by a **battery-backed real-time clock** that preserves calendar information during extended power outages. Local expansion modules communicate over a **16-bit ISA (PC104)** backplane bus, and an additional Type I/II CompactFlash slot accepts larger storage media for recipe libraries or extended diagnostic records. The housing

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measures 112 mm high, 96 mm wide, and 99 mm deep. Its narrow DIN-rail profile leaves room in the cabinet for power supplies and remote I/O couplers.

Specifications

Clock Frequency:	1.8 GHz	Depth:	99 mm	Dimensions (w X H X D):	142 mm x 100 mm x 92 mm
Ethernet Ports:	2 x RJ45	Ethernet Switch:	Internal	Expansion Slot:	1 x Compact Flash Type I+II
Fieldbus Options:	Optional via interface modules (e.g., Profibus, CANopen, DeviceNet, EtherCAT, etc.)	Flash Memory:	64 MB Compact Flash	Height:	112 mm
Main Memory:	256 MB DDR-RAM	Max Power Loss:	11 W	Mounting:	DIN rail
Operating System:	Windows Embedded CE 6.0 or Windows Embedded Standard, others on request	Operating Temperature:	-25 °C to +60 °C	Power Consumption:	Approx. 15 W (base device without modules or fieldbus cards)
Power Supply:	24 V DC (-15%/+20%)	Processor:	Intel Celeron M ULV 1.0 GHz	Processor Family:	Intel Pentium M
Protection Class:	IP20	Protection Rating:	IP20	Real-time Clock:	Battery-Backed
Serial Interface:	RS232 (standard), option for RS232/RS422/RS485 via modules	System Bus:	16-Bit ISA (PC104)	Usb Ports:	2 x USB 2.0
Width:	96 mm	Last Verified:	10/25/2026 10:26 AM		

Contact Us

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