

Beckhoff — CX Embedded PC Systems

CX1020-0000



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The **CX1020-0000** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. This DIN-rail module functions as a programmable logic controller and visualization host, allowing centralized motion, process, and fieldbus management inside control cabinets. By combining passive cooling with onboard networking and PC-based processing, the unit can replace a conventional rack PC while supporting real-time automation tasks and standard operating system services on the factory floor.

Processing capability is supplied by an **Intel Celeron M ULV** CPU that runs at **1 GHz**, providing adequate performance for deterministic TwinCAT PLC execution and optional Windows Embedded tasks. The board carries **256 MB of DDR RAM**, which supports medium-sized control programs, diagnostic buffers, and visualization data. Retentive storage is provided by a **64 MB CompactFlash card** inserted into the Type I+II slot, so the operating system and user projects remain intact through power cycles. The electronics dissipate a maximum of **7 W** under typical load, enabling fully passive cooling and eliminating the need for fan maintenance. A system bus connection provides the 24 V DC input, and overall power loss is limited to 11 W even when extension modules are installed. The onboard switch provides an **integrated three-port topology**, with **two RJ45 sockets** available for inserting the PC directly into Ethernet lines without external hubs. The housing meets the **IP20** protection class, providing finger-safe construction for installation inside standard control cabinets. Its compact dimensions of **96 x 112 x 99 mm** allow the controller to share DIN-rail space with I/O terminals while keeping cabinet depth modest. A weight of 550 g limits stress on the mounting rail, and the 16-bit ISA (PC/104) system bus supports the

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connection of digital, analog, and fieldbus modules without changing the base footprint.

Specifications

Clock:	Internal battery-backed; exchangeable battery	Clock Frequency:	1 GHz	CompactFlash Slot:	Type I/II; 128 MB included; expandable; with ejector
Control Software:	TwinCAT 2 PLC; NC PTP; NC I runtimes	Cooling:	Passive	CPU Cores:	1
Diagnostic LEDs:	Power:1; LAN link/activity:2; TC status:1; Flash:1	Dimensions (w X H X D):	96 x 112 x 99 mm	Dimensions (W×H×D):	96×112×99 mm
Ethernet Interfaces:	2×RJ45 10/100 Mbit/s (internal switch)	Ethernet Switch:	3-Port Integrated	Expansion Slot:	Compact Flash Type I+II
Flash Memory:	64 MB Compact Flash	I/O Connection:	Via PSU module: E-bus, K-bus, K-bus/IP-Link	Main Memory:	256 MB DDR-RAM
Max Power Loss:	11 W	Operating System:	Windows Embedded CE 6; Windows Embedded Standard 2009	Power Supply:	Via System Bus
Processor:	Intel Celeron M ULV	Protection Class:	IP20	Rj45 Ports:	2 x RJ45
System Bus:	16-Bit ISA (PC104)	Thermal Design Power:	7 W	Weight:	550 g
Last Verified:	10/24/2026 5:19 AM				

Contact Us

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