

Beckhoff — CX Embedded PC Systems

CX1020-0111-1009



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The **CX1020-0111-1009** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. The unit combines an industrial processor, main memory, and fieldbus interfaces in a fanless housing. It serves as a central control platform that executes PLC logic, coordinates motion, and supports HMI tasks directly on the machine floor.

Its computing core uses an **Intel Celeron M ULV** processor clocked at **1 GHz**, providing consistent PLC scan times for medium-sized control programs. A bank of **256 MB DDR RAM** holds the active operating system, variables, and communication buffers, while the removable **64 MB CompactFlash** card stores the boot image and user project files. The operating environment is **Windows CE.NET**, which has a compact footprint and supports the real-time extensions used by the preinstalled TwinCAT PLC Runtime. The device also contains a battery-backed real-time clock, allowing time-stamped data to remain accurate during power interruptions. A 16-bit ISA (PC/104) system bus connects the CPU to local I/O terminals and optional expansion modules. This internal connection supports modular expansion without requiring additional communication hardware between the processor and compatible local modules.

Field connectivity is provided by two Ethernet sockets connected through an integrated three-port switch. The two externally accessible connections use **two RJ45 ports**, allowing controllers to be linked in a daisy-chain arrangement. Status information is shown by **one power, two LAN, one TC, and one Flash LED**, providing a clear view of supply, network, runtime, and storage activity. Heat dissipation is limited to **11 W**, so the module can

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operate without forced ventilation inside compact control cabinets. The housing has an **IP20 rating**, providing protection against accidental finger contact when the unit is installed in a dry, clean enclosure. Additional connections include a DVI-I port for panel displays and two USB 2.0 interfaces that can supply up to 100 mA each. A Type I/II CompactFlash slot accommodates removable media for project storage, program backups, or system updates.

Specifications

Clock:	Battery-backed RTC	Clock Frequency:	1 GHz	Control Software:	TwinCAT PLC Runtime
CPU:	Intel Celeron ULV 1.0 GHz	Diagnostics Leds:	1 x Power, 2 x LAN, 1 x TC, 1 x Flash	Dimensions (w X H X D):	128 mm x 100 mm x 91 mm
Dvi/usb Interface:	1 x DVI-I + 2 x USB 2.0	Ethernet Ports:	2 x RJ45	Ethernet Switch:	Integrated 3-port
Expansion Slot:	1 x Compact Flash Type I+II	Expansion Slots:	Multi-pin for Beckhoff I/O extensions	Flash Memory:	64 MB Compact Flash
Integrated Real-time Clock:	Yes	Interfaces:	2 x Ethernet 10/100 Mbps, 4 x USB 2.0, DVI-I, K-bus or E-bus for I/O connection	Main Memory:	256 MB DDR-RAM
Main Memory (ram):	256 MB DDR RAM, expandable to 512 MB	Max Power Loss:	11 W	Maximum Power Consumption:	11 W
Mounting:	DIN rail	Operating System:	Windows CE.NET	Permissible Ambient Temperature:	0°C to 55°C during operation
Power Supply:	24 V DC (-15%/+20%)	Processor:	Intel Celeron M ULV	Protection Class:	IP20
Protection Rating:	IP20	Relative Humidity:	95% (non-condensing)	System Bus:	16 Bit ISA (PC104)
Usb Port Current:	100 mA per port	Weight:	Approximately 720 g	Last Verified:	10/23/2026 9:44 PM

Contact Us

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