Beckhoff — CX Embedded PC Systems

CX9020-0110



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The **CX9020-0110** is a DIN-rail-mounted embedded PC supplied by Beckhoff within the CX Embedded PC Systems series. In a control cabinet, it functions as the central PLC and communication gateway, linking EtherCAT or other fieldbus terminals to higher-level networks for machine automation. The unit has an IP20 rating for installation in protected enclosures. Its backplane can deliver an I/O supply current of 2 A to attached terminals, while separate power contacts carry 10 A for field devices. A 128 kB NOVRAM section secures process data against power loss, and when combined with an external uninterruptible power module, the controller draws 9 W during a buffered shutdown.

Processing is handled by an **i.MX535 Cortex-A8, 1 GHz** SoC that balances performance with low heat dissipation. The platform uses a **single-core** architecture, which simplifies deterministic cycle scheduling for TwinCAT tasks. Runtime variables reside in **1 GB DDR3 RAM**, providing enough space for logic, visualization, and protocol stacks. Firmware and user programs boot from the onboard **512 MB microSD card**, and expandable storage can be added through a front slot. For deterministic communication with supervisory systems, the controller provides **2 × RJ45 ports with 10/100 Mbit/s Ethernet** that support separate machine and service networks.

External peripherals, such as barcode readers or service keys, connect through **4 × USB 2.0 interfaces** positioned below the Ethernet jacks. All electronics are powered by a **24 V DC source**; at nominal load, the computer itself requires only **5 W**, leaving cabinet power reserves for drives and sensors. The housing measures just **84 × 100 × 91 mm**, so multiple CX modules can be installed on the same DIN rail without exceeding typical

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enclosure depths.

Specifications

Cpu Cores:	1	**Dimensions (W x H x D):**	84 x 100 x 91 mm	**I/o Supply Current:**	2 A
Included Storage:	512 MB MicroSD	**Lan Interfaces:**	2 x RJ45, 10/100 Mbit/s	**Main Memory:**	1 GB DDR3-RAM
Max Power:	5 W	**Novram:**	128 kB	**Power Contacts Load:**	10 A
Power Supply:	24 V DC	**Power With Ups:**	9 W	**Processor:**	i.MX535 Cortex-A8, 1 GHz
Protection Rating:	IP20	**Usb Interfaces:**	4 x USB 2.0	**Last Verified:**	11/19/2026 5:21 AM

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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