Beckhoff — CX Embedded PC Systems

# CX9020-0111




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The **CX9020-0111** is a compact embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. Designed to mount directly on a DIN rail alongside I/O terminals, the unit serves as the central controller for PLC logic, motion coordination, and fieldbus communication in small to midsize machines. By combining CPU processing, memory, networking, and visualization interfaces in one housing, it provides a scalable platform that can run TwinCAT automation software for deterministic real-time control tasks. Industrial users can use the device instead of a traditional rack PC, reducing cabinet space and simplifying wiring.

Core performance is provided by a **1 GHz** ARM-based **i.MX535 Cortex-A8** processor that supports deterministic single-thread execution. Program data and the operating system are buffered in **1 GB DDR3 RAM**, supporting fast data exchange between the runtime and the integrated graphics pipeline that drives the DVI output. Two independent Ethernet ports use **2 x RJ45 connectors with 10/100 Mbit/s speeds**, allowing fieldbus traffic to remain separate from configuration access or plant networks. The front panel also provides **4 x USB 2.0 ports** for connecting touchscreens, USB drives, or wireless adapters. Heat is removed through an internal aluminum chassis, so the device uses passive cooling and does not require fan maintenance.

Application data can be archived using **two microSD slots with a 512 MB card included**, while 128 kB of NOVRAM protects process variables against power loss. The electronics operate from a **24 V DC supply with a -15%/+20% tolerance**, allowing connection to a standard control cabinet power source. Typical power consumption remains below **5 W**, making the module suitable for battery-backed or energy-limited installations. The steel

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enclosure measures **84 x 100 x 91 mm**, allowing multiple CX devices to be installed without exceeding the depth of common control panels. Its low power dissipation supports operation in enclosed spaces without additional airflow.

## Specifications

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|---|---|---|---|---|---|
| **Clock Speed:** | 1 GHz | **Cooling:** | Passive | **Cpu Cores:** | 1 |
| **Dimensions (w X H X D):** | 84 x 100 x 91 mm | **Flash memory:** | 2 x microSD slots, 512 MB included | **Lan Interfaces:** | 2 x RJ45, 10/100 Mbit/s |
| **Main memory:** | 1 GB DDR3-RAM | **Max Power:** | 5 W | **Novram:** | 128 kB |
| **Power Supply:** | 24 V DC (-15%/+20%) | **Processor:** | i.MX535 Cortex-A8 | **Usb Interfaces:** | 4 x USB 2.0 |
| **Video output:** | 1 x DVI-D | **Last Verified:** | 11/20/2026 1:16 PM | | |

## Contact Us


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