Beckhoff — CX Embedded PC Systems

CX9020-0112



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The **CX9020-0112** is an embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. Intended as a DIN-rail-mounted controller, it combines PLC logic, motion execution, and fieldbus communication for distributed machine cells. By integrating the CPU, memory, storage slots, and networking into a single unit, it replaces larger rack computers in tight electrical enclosures. The module measures 84 × 100 × 91 mm, so it fits beside standard I/O terminals and maintains a streamlined profile for control cabinets.

The module uses an **Arm Cortex-A8, 1 GHz processor**; this 32-bit core executes TwinCAT tasks while keeping heat generation low. Program variables and the operating system reside in **1 GB of DDR3 RAM**, a capacity suitable for midsize motion sequences and visualization pages. A nonvolatile **128 kB NOVRAM** safeguards process data during power loss without wearing flash media. Two independent network interface controllers are available for machine networking. The physical network connections use **two RJ45 connectors**, and each interface provides **10/100 Mbit/s bandwidth**, permitting the separation of control and diagnostic traffic.

Peripherals attach through a front panel that offers **four USB 2.0 sockets**. Each port can supply up to **500 mA**, allowing direct connection of touch screens or service dongles without an external hub. Visual output is provided by a DVI-D interface that supports a resolution of up to **1920 × 1200**, so local HMIs can use modern widescreen monitors. Internal power consumption remains below **5 W**, which eases power supply sizing and supports fanless installation. The unit operates from a 24 V DC supply and provides two MicroSD slots for removable storage. These slots allow application files, system images, and process data to be stored separately from the internal memory

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when required.

Specifications

Core Count:	1	**Dimensions (W x H x D):**	84 x 100 x 91 mm	**Ethernet Ports:**	2 x RJ45
Ethernet Speed:	10/100 Mbit/s	**Main Memory:**	1 GB DDR3-RAM	**Max Dvi Resolution:**	1920 x 1200
Max Power:	5 W	**Novram:**	128 kB	**Power Supply:**	24 V DC
Processor:	Arm Cortex-A8, 1 GHz	**Storage Slots:**	2 x MicroSD	**Usb Port Current:**	500 mA
Usb Ports:	4 x USB 2.0	**Video Output:**	DVI-D	**Last Verified:**	11/18/2026 1:47 PM

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