Beckhoff — CX Embedded PC Systems

CX9020-0115



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The **CX9020-0115** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It combines a DIN-rail form factor with modular I/O terminals so a control cabinet can run IEC 61131-3 logic and fieldbus communication directly at the machine level. By hosting real-time task scheduling and network services on a single-board computer, the unit functions as the central controller in small and medium-sized automation cells.

An **Arm Cortex-A8 1 GHz** processor provides deterministic execution for PLC cycles, and the onboard **1 GB DDR3 RAM** holds the operating system, user program, and data buffers without external modules. Thermal energy is removed through **passive convection**, eliminating fans that could draw dust into the enclosure. System power consumption is limited to a maximum of **5 W**, allowing dense mounting in control panels powered from a single 24 V bus. Two embedded network controllers provide **two RJ45 10/100 Mbit/s ports** for EtherCAT or standard Ethernet communication. The adjacent terminal interface can drive either E-bus or K-bus I/O while supplying up to 2 A to the terminal stack. Peripheral expansion is available through four USB 2.0 sockets for compatible storage devices and accessories.

The aluminum housing measures **84 × 100 × 91 mm**, so it occupies roughly half the width of a standard power supply on the rail. The logic electronics operate from a regulated **24 V DC** supply, and the housing provides **IP20** protection for use in dry, enclosed cabinets. A 128 kB NOVRAM segment preserves retained variables during sudden power outages, helping the controller recover essential process data after power returns. One DVI-D port supports local HMI visualization without requiring an additional graphics card. Two microSD card slots provide removable

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storage for program backups, recipes, and other application data. TwinCAT projects can load automatically because the controller includes **TwinCAT 3 Runtime (XAR)**.

Specifications

Control software:	TwinCAT 3 Runtime (XAR)	**Cooling:**	Passive	**Dimensions:**	84 x 100 x 91 mm
Display Output:	1 x DVI-D	**E/k-bus Current:**	2 A	**Ethernet:**	2 x RJ45 10/100 Mbit/s
I/o Connection:	E-bus or K-bus	**Main memory:**	1 GB DDR3 RAM	**Max Power:**	5 W
microSD slots:	2	**Novram:**	128 kB	**Processor:**	Arm Cortex-A8, 1 GHz, 1 core
Protection Rating:	IP20	**Supply Voltage:**	24 V DC	**Usb:**	4 x USB 2.0
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