Beckhoff — CX Embedded PC Systems

CX8090



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The **CX8090** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. This rail-mounted controller integrates a PLC runtime and an Ethernet fieldbus coupler in one housing, so it can read distributed digital or analog signals and forward process data to supervisory software without an additional gateway. By combining computing power, communication, and the K-Bus or E-Bus I/O interface, the device acts as a compact node that coordinates machine sequences and transmits real-time status information across standard industrial networks.

An **Arm9, 400 MHz** processor executes the TwinCAT runtime and user tasks, while **64 MB RAM** provides volatile storage for variables, buffers, and the operating system. Nonvolatile data, recipes, and firmware updates reside on a **512 MB microSD** card. The integrated UPS provides one second of backup power, helping prevent data corruption during brief power interruptions. The module receives control voltage from a **24 VDC** supply and withstands 500 V of dielectric strength between the internal circuits and the I/O level. Two amperes are available for terminal strips, supporting several rows of sensors and actuators. With 2 kB of K-Bus input data and 2 kB of output process data, the CPU exchanges fixed-length images with up to 255 terminals during each cycle, allowing deterministic response times.

Total power demand stays below **3 W**, so cabinet heat rise is minimal even when the ambient air reaches the specified operating range of **0 °C to +55 °C**. The housing carries an **IP20** protection rating, which is suitable for clean electrical enclosures where the control panel provides additional shielding. Compact outer dimensions of **64 ×**

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100 × 73 mm and a mass of only **180 g** permit high-density installation next to other CX family CPUs or power supplies while keeping the load on DIN rail hardware and wiring ducts within safe limits.

Specifications

Dielectric Strength:	500 V	**Dimensions (W x H x D):**	64 x 100 x 73 mm	**Fieldbus Interface:**	Ethernet
Flash Memory:	512 MB microSD	**I/o Terminal Interface:**	K-Bus or E-Bus	**I/o Terminal Supply:**	2 A
Integrated Ups:	1-second (1 MB on microSD)	**K-bus Process Data:**	2 kB input / 2 kB output	**Main Memory:**	64 MB RAM
Max Power Consumption:	3 W	**Operating Temperature:**	0 °C to +55 °C	**Power Supply:**	24 VDC (-15%/+20%)
Processor:	Arm9, 400 MHz	**Protection Rating:**	IP20	**Weight:**	180 g
Last Verified:	11/20/2026 5:55 AM				

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