Beckhoff — CX Embedded PC Systems

CX8091



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The **CX8091** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. Designed for DIN-rail installation beside standard Beckhoff I/O slices, it functions as the compact control core of small machines or building-automation panels. The device executes PLC tasks, handles local signal preprocessing, and passes process data to higher-level networks, thereby replacing conventional stand-alone controllers with an integrated automation node.

An Arm9 processor clocked at **400 MHz** performs the user program, while **64 MB of RAM** stores variable data and buffers tasks during fast cycle times. Application and boot files reside on a **512 MB microSD card** that can be removed to manage software versions in the field. The electronics are powered by a regulated **24 VDC** supply that tolerates line variation from -15% to +20%, and the complete module draws only **3 W** under maximum load, minimizing cabinet heat. An integrated one-second UPS allows the system to close files and retain variables during brief brownouts. Internal insulation provides 500 V of dielectric strength between the supply domain and signal ground. The terminal bus receives up to 10 W to energize E-bus or K-bus couplers without external feeders.

Field communication uses **BACnet/IP and OPC UA** protocols, allowing native connectivity to building services or platform-independent SCADA clients. User logic is created in accordance with **IEC 61131-3**, so existing PLC code libraries can be ported without modification. The housing carries an **IP20** protection rating and measures **64 mm × 100 mm × 73 mm**, saving panel width when multiple controllers share a rail. Up to 2 A is available from the I/O terminal supply to power sensors and actuators. The assembly weighs 180 g, keeping vibration loads low on light-

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gauge mounting structures.

Specifications

1-second Ups:	Integrated	**Communication:**	BACnet IP/OPC UA	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	64 mm x 100 mm x 73 mm	**E-bus/k-bus Power:**	10 W	**Flash Memory:**	512 MB MicroSD
I/o Terminal Supply:	2 A	**Main Memory:**	64 MB RAM	**Max Power Consumption:**	3 W
Power Supply:	24 VDC (-15%/+20%)	**Processor:**	Arm9, 400 MHz	**Programming Standard:**	IEC 61131-3
Protection Rating:	IP20	**Weight:**	180 g	**Last Verified:**	11/19/2026 3:55 PM

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Shipping Options

Payment Methods

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