Beckhoff — CX Embedded PC Systems

CX8050



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The **CX8050** is an embedded PC controller manufactured by Beckhoff within the CX Embedded PC Systems series. As a compact DIN-rail device, it combines PLC logic, runtime memory, and fieldbus connectivity so that machine builders can execute control tasks directly next to their I/O terminals. Its integrated CAN Master interface simplifies decentralized I/O topologies and allows the unit to forward process variables to higher-level networks in industrial automation.

It is driven by an **ARM9 processor operating at 400 MHz**, which provides sufficient performance for typical PLC cycles. The control program executes from **64 MB of RAM**, while application files and the boot image reside on a removable **512 MB microSD card**. The internal supply requires **24 VDC**, and a conversion stage limits rail ripple and isolates the logic from the plant mains. During operation, the system draws only **10 W of bus power**, minimizing heat inside the cabinet. A dielectric strength of 500 V separates the field and logic domains to protect the controller against electrical transients. An uninterruptible 1 MB buffer on the microSD card preserves the last process image during brownouts. The K-bus supports 2 kB of process data in each direction, providing capacity for numerous digital and analog points without saturating the backplane bandwidth.

The terminal header can deliver up to **2 A of I/O supply current** for peripheral loads, eliminating the need for separate power blocks for small sensors. The housing measures **64 × 100 × 73 mm**, allowing multiple controllers to fit side by side on standard 35 mm rails. Its low mass of **180 g** reduces strain on modular enclosures. Programs are written in internationally recognized **IEC 61131-3 languages** and downloaded through the integrated web

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manager. A CAN Master port exchanges cyclic data with drives or remote modules, while the unit draws a maximum of 3 W in standby mode when the machine is idle.

Specifications

Bus Power Consumption:	10 W	**Dielectric Strength:**	500 V	**Dimensions:**	64 x 100 x 73 mm
Fieldbus Interface:	CAN Master	**Flash Memory:**	512 MB microSD	**I/o Supply Current:**	2 A
K-bus Process Data:	2 kB In / 2 kB Out	**Main Memory:**	64 MB RAM	**Max Power Consumption:**	3 W
Power Supply:	24 VDC	**Processor:**	Arm9, 400 MHz	**Programming Standard:**	IEC 61131-3
Ups Buffer Size:	1 MB on microSD card	**Web Management:**	Yes	**Weight:**	180 g
Last Verified:	11/20/2026 7:10 AM				

Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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