Beckhoff — CX Embedded PC Systems

CX8030



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The **CX8030** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. This compact controller combines an ARM CPU, an integrated PROFIBUS master, and a modular I/O interface, enabling it to serve as the central PLC in small- and medium-sized machines. By running TwinCAT software and executing IEC 61131-3 programs, it handles logic, motion, and data acquisition directly at the equipment level.

The controller relies on a **32-bit ARM-based processor**, providing deterministic cycle times while keeping power dissipation low enough for **fanless operation**. Its onboard flash totals **512 MB**, providing space for the operating system, application code, and trend data. The use of **SLC technology** provides the write endurance needed for frequent log updates. Communication with decentralized peripherals occurs over the integrated **PROFIBUS DP master interface**, allowing direct control of drives, remote I/O, or HMI panels on the fieldbus without an additional gateway.

Mechanical integration is simplified by the compact **64 × 100 × 73 mm housing**, which weighs only 180 g and snaps onto a DIN rail next to terminal blocks. Beckhoff's modular I/O lines attach on the right through the **K-Bus/E-Bus terminal bus**, so digital, analog, or safety modules can be added without extra wiring. The electronics draw from a single **24 VDC supply**, and power distribution to downstream terminals is supported by contacts rated for 10 A. A capacitive UPS bridges brownouts for one second, allowing the controller to complete data retention operations. A MicroSD card provides removable mass storage for application files and operational data. For service tasks or program downloads, **one USB Type-B port** is available, and the network interfaces support a dedicated

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programming environment that uses IEC 61131-3 languages.

Specifications

Cooling:	Fanless	**Cpu Architecture:**	32-bit ARM-Based	**Dimensions (W x H x D):**	64 x 100 x 73 mm
Fieldbus Interface:	PROFIBUS DP Master	**Flash Capacity:**	512 MB	**Flash Type:**	SLC
I/o Terminal Bus:	K-Bus/E-Bus	**Power Contacts Load:**	10 A	**Power Supply:**	24 VDC
Programming Standard:	IEC 61131-3	**Storage Medium:**	MicroSD Card	**Ups Type:**	1-Second Capacitive
Usb Port:	1 x USB Type B	**Weight:**	180 g	**Last Verified:**	11/20/2026 6:00 AM

Contact Us

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Shipping Options

Payment Methods

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