Beckhoff — CX Embedded PC Systems

CX8031



In-Stock, Ships 3-5 Days

- ☑ Get a Quote in 5 minutes
- ☑ Parts ship in as little as 24 hours
- ☑ Up to half the cost of the manufacturer

Secure Online Checkout

Free Ground Shipping

One Year Warranty

The **CX8031** is an embedded PC module from Beckhoff that belongs to the CX Embedded PC Systems series. It acts as a compact controller that links digital I/O terminals with higher-level Ethernet or fieldbus networks, allowing PLC logic, data acquisition, and visualization to operate within the same DIN-rail form factor. By integrating computing, communication, and power distribution in one housing, the unit reduces the amount of wiring required in small and midsize industrial machines. Its compact format also allows the controller to be installed alongside compatible terminal modules without requiring a separate computer enclosure.

The processing core is a **32-bit ARM-based CPU** that performs real-time tasks without active ventilation because the housing uses passive cooling. For communication, the module provides a **PROFIBUS DP slave** interface for deterministic data exchange with a Class 1 master. Electrical power comes from a **24 VDC supply**, and the internal electronics draw up to **2.0 A at 24 V**. The housing measures **64 mm × 100 mm × 73 mm**, allowing the device to fit within the profile of standard terminal rows, and the complete unit weighs 180 g. Horizontal mounting supports operation at temperatures up to **55 °C**. A 512 MB microSD SLC card stores the runtime image and user program, while a USB Type-B port provides service access. Dielectric strength of 500 V provides electrical isolation between the low-voltage electronics and neighboring modules.

A built-in UPS uses a **capacitive energy store** to maintain controller power briefly when the main supply is interrupted. Its hold-up time is **1 second**, giving the system enough time to write retained variables to flash memory during a voltage dip or power loss. Power contacts routed through the terminal bus are rated for **10 A**,

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.

allowing adjacent supply terminals to distribute power to connected sensors and actuators without separate conductors for each terminal group. Because the UPS stores energy in a capacitor rather than a battery, it does not require routine battery replacement. Passive thermal management also avoids moving fan components inside the housing, while the insulation barrier separates control electronics from nearby electrical circuits.

Specifications

Cooling:	Passive	**Cpu Architecture:**	32-bit ARM-based CPU	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	64 mm x 100 mm x 73 mm	**Fieldbus Interface:**	PROFIBUS DP Slave	**Max Ambient Temp:**	55 °C (Horizontal)
Power Contact Current:	10 A	**Storage:**	512 MB MicroSD (SLC)	**Supply Current:**	2.0 A at 24 V
Supply Voltage:	24 VDC	**Ups Hold-up Time:**	1 s	**Ups Type:**	Capacitive
Usb Service Port:	Type B	**Weight:**	180 g	**Last Verified:**	11/20/2026 5:37 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

Shipping Options

DHL, FedEx, UPS, Freight

Payment Methods

American Express, MasterCard, VISA, Wire Transfer

Automation Factory sells factory new and pre-owned surplus products and maintains channels to procure supply. Automation Factory is not affiliated with nor an authorized distributor or representative of any manufacturers, brands or products listed. Designated trademarks, brand names, and brands appearing herein are the property of their respective owners.

© 2026 Automation Factory. All rights reserved.