Beckhoff — CX Embedded PC Systems

CX5140-0121



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 **CX5140-0121** is an embedded PC manufactured by Beckhoff and supplied within the CX Embedded PC Systems series. Designed for DIN-rail installation inside control cabinets, the unit combines processing, fieldbus interfaces, and storage in one compact controller for machine automation. It serves as a central PLC and visualization platform, allowing TwinCAT or other IEC 61131-3 runtime environments to execute deterministic logic while coordinating distributed I/O and motion hardware.

Processing capability comes from an **Intel Atom E3845 quad-core processor operating at 1.91 GHz** Its cores can support real-time tasks, allowing parallel control loops to be separated from HMI duties. The system carries **4 GB of DDR3 RAM** for code, variables, and buffering, while a **256 MB shared graphics partition** drives the DVI-I output at resolutions from 640 × 480 through 1920 × 1200. The controller has **two RJ45 10/100/1000 Mbit/s ports** that support EtherCAT or standard Ethernet segments. It also provides **four USB 2.0 interfaces rated at 500 mA** for service drives, barcode readers, or external storage devices. A one-second CFast-based uninterruptible power supply secures 1 MB of volatile data during brownouts, helping prevent corruption of recipe or process values. The housing measures 142 × 100 × 92 mm and weighs 1,095 g, supporting installation in compact control panels.

Power consumption remains below **16 W**, and the low power draw supports passive convection cooling inside densely packed racks. The electronics accept a **24 V DC supply with a tolerance of -15% to +20%**, allowing the controller to share a power rail with sensors and relays. Continuous operation is permitted across an ambient

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.

temperature range of **-25 °C to +60 °C**, accommodating refrigerated process areas and warm industrial enclosures without auxiliary heaters. The module has an **IP20 protection rating**, which protects against accidental finger contact but does not provide protection from water. It is therefore intended for installation inside a suitable control cabinet that prevents direct exposure to liquids, dust accumulation, and other contaminants. Drives, terminals, and distributed I/O modules can be installed nearby when the cabinet provides adequate airflow and maintains the permitted operating temperature.

Specifications

Cpu Cores:	4	**Dimensions:**	142 x 100 x 92 mm	**Dvi-i Resolution:**	640 x 480 to 1920 x 1200
Graphics Memory:	256 MB (shared)	**Integrated Ups:**	1 s, 1 MB on CFast	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Power Use:**	16 W	**Operating Temp:**	-25 °C to +60 °C
Power Supply:	24 V DC (-15%/+20%)	**Processor:**	Intel Atom E3845, 1.91 GHz	**Protection Rating:**	IP20
Usb Ports:	4 x USB 2.0, 500 mA	**Weight:**	1095 g	**Last Verified:**	11/19/2026 10:49 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.