Beckhoff — CX Embedded PC Systems

CX5120-0130



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The **CX5120-0130** is an embedded PC manufactured by Beckhoff within the CX Embedded PC Systems series. Mounted on a DIN rail, the unit serves as the central controller for PLC, motion, and visualization tasks in industrial automation cells. Its compact housing integrates the processor, memory, and communication ports so that I/O terminals on the right and left sides can be driven directly without an external industrial PC.

The computing section is built around an **Intel Atom E3815** processor running at **1.46 GHz**; this single-core CPU delivers deterministic cycle times for medium-sized machines while keeping power loss low. Runtime data and user programs reside in **2 GB of DDR3 RAM**, and an additional 256 MB graphics buffer supports local HMI displays without a separate GPU card. Network connections are provided through **two RJ45 ports** that support 10/100/1000 Mbit/s links, allowing one port to connect to an upstream network and the second to serve field devices or daisy-chained controllers. External peripherals such as barcode scanners or service laptops can be attached through **four USB 2.0 Type A ports**, enabling maintenance access without opening the cabinet.

The power section accepts a control voltage of **24 V DC** and draws up to **11 W** under full processor and bus load, while an internal supply limited to 10 W feeds attached E-bus or K-bus terminal segments. The electronics withstand a dielectric strength of 500 V between the supply and protective earth. The fanless enclosure carries an **IP20 rating**, making it suitable for installation in clean, closed cabinets. With dimensions of **122 × 100 × 92 mm**, multiple controllers can be arranged on a single rail while leaving room for additional I/O slices and power-conditioning modules.

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Specifications

Clock Speed:	1.46 GHz	**Cpu Cores:**	1	**Dielectric Strength:**	500 V
Dimensions:	122 x 100 x 92 mm	**E-bus/k-bus Power:**	10 W	**Graphics Memory:**	256 MB
Lan Ports:	2 x RJ45	**Lan Speed:**	10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM
Max Power Use:	11 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Protection Rating:	IP20	**Usb Ports:**	4 x USB 2.0 Type A	**Last Verified:**	11/20/2026 2:28 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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