Beckhoff — CX Embedded PC Systems

CX5120-0123



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The **CX5120-0123** is an embedded PC produced by Beckhoff and belongs to the CX Embedded PC Systems series. Intended for machine-level control, it replaces separate PLC, industrial PC, and communication modules with a single compact unit that executes real-time tasks in industrial automation lines. Its hardware is suitable for small to mid-range axis counts, energy management nodes, and building automation controllers that benefit from deterministic processing and low power consumption.

Its computing resources center on an **Intel Atom E3815** processor clocked at **1.46 GHz**. Although the device uses a single core, the x86-64 instruction set provides compatibility with standard Windows and real-time operating systems supplied by Beckhoff. A main memory pool of **2 GB DDR3 RAM** stores logic, process data, and ring buffers for field communication, while 256 MB of reserved graphics memory supports visualization without burdening the processor. The preinstalled **TwinCAT 2 NC I Runtime** links PLC code with interpolated motion control, allowing axis positions, cam tables, and user variables to reside in a unified address space. Two RJ45 interfaces share an integrated switch and operate at **10/100/1000 Mbit/s**, allowing simultaneous configuration access and field-level communication without requiring additional gateways.

The controller has **four front-facing USB 2.0 connectors** that supply 500 mA per channel, enabling direct connection of keyboards, barcode readers, or flash drives during setup and maintenance. The controller draws only **11 W** during normal operation, rising to 18 W when the internal buffer UPS is engaged. The UPS maintains logic power for one second, giving the runtime enough time to complete active tasks and save variables. All circuits

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receive power from a **24 V DC** source commonly found in industrial control cabinets. Passive cooling eliminates the need for a fan, which reduces moving parts and allows heat to dissipate through the aluminum housing. The enclosure measures **122 x 100 x 92 mm** and mounts on a DIN rail beside terminal modules while retaining the necessary clearance for airflow and cable connections.

Specifications

Control Software:	TwinCAT 2 NC I Runtime	**Cpu Clock:**	1.46 GHz	**Dimensions (W x H x D):**	122 x 100 x 92 mm
Graphics Memory:	256 MB	**Lan Ports:**	2 x RJ45	**Lan Speed:**	10/100/1000 Mbit/s
Main Memory:	2 GB DDR3-RAM	**Max Power Consumption:**	11 W	**Max Power With Ups:**	18 W
Number Of Cores:	1	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Ups Buffer Time:	1 s	**Usb Port Current:**	500 mA	**Usb Ports:**	4 x USB 2.0
Last Verified:	11/19/2026 8:45 PM				

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