Beckhoff — CX Embedded PC Systems

CX5120-0112



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The **CX5120-0112** is an embedded PC manufactured by Beckhoff as part of the CX Embedded PC Systems series. This fanless DIN-rail unit combines control, visualization, and communication functions for machine-level automation, allowing TwinCAT logic and motion tasks to run directly at the equipment. Designed around industrial Ethernet networking, the device serves as the central PLC and HMI platform in distributed I/O and drive architectures that require compact hardware and deterministic real-time performance.

A single Intel Atom processor clocked at **1.46 GHz** handles the runtime of TwinCAT 2 NC PTP, while one physical core manages cyclic tasks with minimal jitter. The system carries **2 GB DDR3 RAM**, providing space for the operating system, project code, and buffered process data without paging. Onboard communication is available through **2 × RJ45 interfaces supporting 10/100/1000 Mbit/s**, enabling separate control and diagnostic networks or redundant ring topologies. External peripherals such as barcode readers or USB storage devices can be attached to the front panel through **4 × USB 2.0 ports**. An integrated Atom chipset keeps overall heat dissipation at **11 W** during typical operation, reducing cabinet ventilation requirements.

The controller accepts a nominal supply of **24 V DC** and includes a one-second capacitive UPS that bridges brief power interruptions; continuous consumption rises to 18 W while the energy store is charging. A rugged aluminum housing measuring **122 × 100 × 92 mm** fits shallow control cabinets, and the assembly carries an **IP20** protection rating that limits installation to clean, dry enclosures. The DVI-I interface supports panel or projector resolutions up to **1920 × 1200 pixels**, while a 400 MHz graphics base clock and 256 MB of shared memory handle standard

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SCADA screens without a separate graphics processor.

Specifications

Control Software:	TwinCAT 2 NC PTP Runtime	**Cpu Cores:**	1	**Dimensions (W x H x D):**	122 x 100 x 92 mm
Dvi-i Max Resolution:	1920 x 1200 px	**Graphics Base Clock:**	400 MHz	**Graphics Memory:**	256 MB (Shared)
Integrated Ups:	1 s	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	11 W	**Max Power With Ups:**	18 W	**Power Supply:**	24 V DC
Processor:	Intel Atom E3815, 1.46 GHz	**Protection Rating:**	IP20	**Usb Ports:**	4 x USB 2.0, Type A
Last Verified:	11/18/2026 4:54 PM				

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