Beckhoff — CX Embedded PC Systems

CX5120-0111



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The **CX5120-0111** is an embedded PC produced by Beckhoff for the CX Embedded PC Systems series. This fanless controller mounts on a DIN rail and hosts TwinCAT automation software, serving as the PLC, motion coordinator, and HMI server in compact machines. A rear connector stack accepts Beckhoff Bus Terminals so that digital, analog, and fieldbus signals can be processed without an external rack, giving the device a direct role in deterministic industrial control loops.

The computing core is an **Intel Atom E3815** with a single processing thread, and it operates at **1.46 GHz** to support real-time control cycles. Working data is buffered in **2 GB of DDR3 RAM**, providing capacity for medium-sized logic programs and graphical user interfaces. Two independent Gigabit Ethernet controllers provide network redundancy through **two RJ45 ports supporting 10/100/1000 Mbit/s** connections. External peripherals such as barcode readers, service laptops, or flash drives connect to four **USB 2.0 Type-A ports**. Control power is supplied through a **24 V DC** terminal, while the electronics draw 11 W during typical operation and the local I/O bus can deliver 10 W to attached terminal slices. Removable storage is provided by a CFast card slot and a MicroSD card slot, allowing application, operating system, and recipe data to be stored separately.

The device provides a dielectric strength of **500 V** between the supply circuitry and protective earth. When the optional UPS capacitor module is installed, total power consumption rises to **18 W**, while the buffer keeps the CPU powered for one second to support an orderly shutdown and preserve process data. During this interval, **1 MB of CFast card storage** is reserved as UPS memory so that variables, counters, and time stamps can be written

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without corruption. The aluminum housing protects the internal storage connectors from vibration during machine operation. Its DIN-rail format also allows the controller to be installed near connected I/O terminals, reducing the distance required for local bus connections.

Specifications

Clock Speed:	1.46 GHz	**Core Count:**	1	**Dielectric Strength:**	500 V
Flash Memory:	CFast Slot + MicroSD Slot	**I/o Bus Power:**	10 W	**Integrated Ups:**	1-Second
Lan:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power:**	11 W
Max Power With Ups:	18 W	**Nominal Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Ups Memory:	1 MB on CFast Card	**Usb:**	4 x USB 2.0 Type A	**Last Verified:**	11/20/2026 6:12 AM

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