Beckhoff — CX Embedded PC Systems

CX5120-0141



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The **CX5120-0141** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. This DIN-rail unit serves as the central controller in automated plants, handling PLC sequences, motion tasks, and operator interfaces from one compact housing. By integrating computing, fieldbus communication, and display output, it reduces cabinet space and wiring in industrial automation cells.

An **Intel Atom E3815 1.46 GHz** processor drives the system, and its single-thread design uses **1 active core**. The board includes **2 GB of DDR3 RAM** for real-time code, while a separate 256 MB graphics buffer supports the DVI interface. Four USB 2.0 ports accommodate service tools or data-logging devices, and each port can supply 500 mA. The embedded PC provides **10 W of bus power** for downstream terminals, while its own electronics draw up to **11 W** under maximum load. Internal circuits provide 500 V of dielectric isolation to withstand field transients. A 10/100/1000-Mbps Ethernet port and optional I/O slices connect the controller directly to drives, sensors, or higher-level networks without external gateways.

The **24 V DC supply input** supports redundant power sources, and an integrated UPS buffer maintains the CPU for 1 s so that data can be written safely during outages. When the UPS charger is active, power demand rises to **18 W**. Image output over DVI-I reaches **1920 × 1200**, allowing the panel to present detailed HMI screens. The housing measures **122 × 100 × 92 mm**, allowing dense mounting next to other CX modules. Heat produced by the Atom CPU is passively dissipated through the aluminum housing, eliminating the need for a cooling fan. The graphics buffer supports display processing without reducing the memory allocated to real-time control tasks.

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Specifications

Bus Power Budget:	10 W	**Core Count:**	1	**Dielectric Strength:**	500 V
Dimensions:	122 x 100 x 92 mm	**Dvi-i Max Resolution:**	1920 x 1200	**Graphics Memory:**	256 MB
Main Memory:	2 GB DDR3 RAM	**Max Power Use:**	11 W	**Max Power With Ups:**	18 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3815 1.46 GHz	**Ups Buffer:**	1 s
Usb Port Current:	500 mA	**Usb Ports:**	4 x USB 2.0	**Last Verified:**	11/20/2026 10:41 AM

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Shipping Options

Payment Methods

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