Beckhoff — CX Embedded PC Systems

CX5130-0111



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The **CX5130-0111** embedded PC controller is produced by Beckhoff for the CX Embedded PC Systems series. Intended for midrange machine control, it combines central processing, communication, and data storage so that TwinCAT 2 PLC Runtime can execute directly on the DIN rail beside the I/O terminals. By combining a CPU, fieldbus gateway, and visualization server in one IP20 housing, the device replaces separate rack-mounted PCs and PLC racks, simplifying cabinet layouts in automated lines, test benches, and packaging machines.

At its core, the fanless motherboard carries an **Intel Atom E3827** processor that operates at **1.75 GHz** and provides **two cores** for deterministic multitasking. This dual-core architecture is supported by **4 GB of DDR3 RAM**, providing space for logic variables, motion buffers, and HMI objects. A 256 MB graphics segment drives panel displays, while CFast and microSD card slots support program backups and data logging. Network integration is handled by **two RJ45 Gigabit ports** that can separate configuration traffic from real-time EtherCAT communication. Four USB 2.0 channels, each limited to 500 mA, can power service drives or barcode readers. The internal backplane provides a 2 A supply so attached terminal blocks receive field power without an additional feeder.

The controller draws power from a **24 V DC** field supply and consumes **14 W** during normal operation. Demand rises to **20 W** when the built-in UPS capacitor charges, while the one-second buffer provides enough time for an orderly variable save during outages. The input circuitry has a dielectric strength of 500 V, helping protect the logic from switching transients. An enclosure rating of **IP20** limits the unit to installation within closed control cabinets,

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where its 142 × 100 × 92 mm footprint and 1,095 g mass allow it to fit beside existing modules. Its fanless thermal design uses conduction cooling to maintain stable temperatures. The UPS, LAN connections, and flash media continue to operate without relying on moving parts.

Specifications

Clock Frequency:	1.75 GHz	**Control Software:**	TwinCAT 2 PLC Runtime	**Core Count:**	2
Cpu Clock:	1.75 GHz	**Cpu Cores:**	2	**Dielectric Strength:**	500 V
Dimensions:	142 x 100 x 92 mm	**Dimensions (w X H X D):**	142 x 100 x 92 mm	**Flash Media Slots:**	CFast + MicroSD
Flash Storage Slots:	CFast Card; MicroSD Card	**Graphics Memory:**	256 MB	**I/o Terminal Supply:**	2 A
Integrated Ups:	1 s	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM
Max Power:	14 W	**Max Power Consumption:**	14 W	**Max Power With Ups:**	20 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3827	**Protection Rating:**	IP20
Ups Buffer Time:	1 s	**Usb Ports:**	4 x USB 2.0, 500 mA	**Weight:**	1095 g
Last Verified:	11/19/2026 12:19 AM				

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