Beckhoff — CX Embedded PC Systems

CX5130-0100



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The **CX5130-0100** embedded PC is produced by Beckhoff within the CX Embedded PC Systems series. This DIN-rail-mounted unit combines a PC-class processor, memory, and fieldbus connections, allowing it to act as the central PLC, motion controller, and visualization node in decentralized automation cells. The integrated **Intel Atom E3827** processor uses low-power logic, so the I/O bus draws only 10 W while providing x86 instruction compatibility for Windows or embedded Linux images.

The dual-core processor operates at **1.75 GHz**, and its **2** cores handle deterministic tasks under TwinCAT real-time control. System data reside in **4 GB DDR3 RAM**, a capacity that supports sizable PLC projects and local HMI graphics buffered in the on-die controller. For display output, the chipset allocates **256 MB** of graphics memory, enabling modest visualization without an external GPU. Program and recipe storage is available through CFast and MicroSD slots, allowing solid-state media to be exchanged during maintenance. The I/O terminal supply provides two amperes, allowing EtherCAT terminal blocks and sensor power to be supplied directly from the head module. Dielectric strength is rated at 500 V to isolate logic from field voltages during transients.

The controller's power consumption peaks at **14 W** during full CPU load or 20 W while an internal UPS pack is charging, so cabinet ventilation requirements remain modest. It accepts a redundant DC feed from **24 V DC** power rails, and the spring-cage power contacts can conduct 10 A to downstream terminals without separate distribution blocks. The compact housing measures **142 × 100 × 92 mm**, aligning with standard BK-series slice I/O and helping keep wiring paths short. With a mass of **1095 g**, the housing can be mounted on light-gauge steel without

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additional bracing. Its DIN-rail format also permits installation alongside compatible power supplies, couplers, and automation terminals within the control cabinet.

Specifications

Cpu Clock:	1.75 GHz	**Cpu Cores:**	2	**Dielectric Strength:**	500 V
Dimensions (w X H X D):	142 x 100 x 92 mm	**Flash Media Slots:**	CFast, MicroSD	**Graphic Memory:**	256 MB
I/o Bus Power:	10 W	**I/o Terminal Supply:**	2 A	**Main Memory:**	4 GB DDR3-RAM
Max Power Consumption:	14 W	**Power Contacts Load:**	10 A	**Power Supply:**	24 V DC
Power With Ups Charging:	20 W	**Processor:**	Intel Atom E3827	**Weight:**	1095 g
Last Verified:	11/20/2026 4:03 AM				

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