Beckhoff — CX Embedded PC Systems

CX5130-0150



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The **CX5130-0150** is a DIN-rail-mounted embedded PC produced by Beckhoff and assigned to the CX Embedded PC Systems series. Intended for machine and building control, it combines PLC logic, HMI tasks, and motion sequencing in one compact housing so that decentralized I/O stations can be coordinated without a separate industrial computer. Its fanless aluminum enclosure is sized for control cabinets and attaches directly to EtherCAT terminal blocks, forming a scalable automation node.

At the heart of the device is an **Intel Atom E3827** processor. This dual-core architecture provides **two execution cores** that run at a base speed of **1.75 GHz**, providing consistent performance for mid-range control loops and visualization. System data and user programs reside in **4 GB of DDR3 RAM**, allowing sizable PLC projects to load without paging delays. The hardware draws only **14 W** during typical operation and is supplied with a nominal **24 V DC** control voltage commonly used in machinery cabinets. Electrical clearance is supported by a dielectric strength of 500 V, while the 142 × 100 × 92 mm footprint leaves space for terminal rows. Four USB 2.0 ports deliver 500 mA each for service devices or scanner modules.

For graphics and field connectivity, the integrated controller includes a burst-mode clock of **792 MHz** on the internal GPU and allocates **256 MB of shared system memory**, enabling low-overhead dashboards on DVI-D panels. Network traffic is handled by **two RJ45 interfaces supporting 10/100/1000 Mbit/s**, permitting redundant links to supervisory systems or real-time EtherCAT branches. A separate power budget supplies the I/O terminal backplane with 2 A. When a UPS extension is attached, the permissible power consumption increases to a maximum

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of 20 W.

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	**Graphics Burst Clock:**	792 MHz	**Graphics Memory:**	256 MB Shared
I/o Terminal Supply:	2 A	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM
Max Power:	14 W	**Max Power With Ups:**	20 W	**Power Supply:**	24 V DC
Processor:	Intel Atom E3827	**Usb:**	4 x USB 2.0, 500 mA	**Last Verified:**	11/19/2026 4:42 PM

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