Beckhoff — CX Embedded PC Systems

CX5130-0135



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The **CX5130-0135** embedded PC is produced by Beckhoff and belongs to the CX Embedded PC Systems series. It combines an industrial processor module, compact storage, and fieldbus connectivity in a DIN-rail form factor. In an automation cell, it runs TwinCAT 3 control software to execute PLC logic, axis interpolation, and user visualization, allowing the device to serve simultaneously as a controller and machine-level workstation.

It is powered by an **Intel Atom E3827** processor that operates at **1.75 GHz**. The dual-core architecture provides **2 cores**, so the runtime can execute deterministic tasks alongside Windows-based services without thread starvation. System responsiveness is supported by **4 GB of DDR3 RAM**, while a 256 MB shared graphics buffer drives DirectX-compatible outputs at base and burst frequencies of 542 MHz and 792 MHz. The computing section draws only **14 W** at full load, keeping cabinet temperatures low and permitting passive ventilation in many cabinets. Overall dimensions of 142 × 100 × 92 mm leave sufficient space for adjacent I/O terminals. The TwinCAT 3 Runtime (XAR) image is preinstalled to simplify initial setup.

Field integration is handled through the 24-pin power slice, which accepts a supply of **24 V DC**. Onboard conversion distributes stabilized power to the logic, USB, and Ethernet circuits. The housing carries an **IP20** rating, making it suitable for clean control cabinets that provide forced-air or convection cooling. Two independent Gigabit controllers terminate at **2 × RJ45 ports**, enabling separate automation and enterprise networks or simple daisy-chain topologies. For removable media, service keyboards, or machine-mounted scanners, the front panel provides **4 × USB 2.0 ports**, each rated at 500 mA. The separate network connections allow control traffic and higher-level data

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exchange to operate on different physical interfaces. The available USB ports also support several local peripherals without requiring an external hub.

Specifications

Control Software:	TwinCAT 3 Runtime (XAR)	**Cpu Clock:**	1.75 GHz	**Cpu Cores:**	2
Dimensions:	142 x 100 x 92 mm	**Gpu Base Clock:**	542 MHz	**Gpu Burst Clock:**	792 MHz
Graphics Memory:	256 MB (shared)	**Lan Ports:**	2 x RJ45	**Main Memory:**	4 GB DDR3-RAM
Max Power Consumption:	14 W	**Processor:**	Intel Atom E3827	**Protection Rating:**	IP20
Supply Voltage:	24 V DC	**Usb Port Current:**	500 mA	**Usb Ports:**	4 x USB 2.0
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