Beckhoff — CX Embedded PC Systems

CX5130-0110



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Beckhoff's **CX5130-0110** is an embedded PC from the CX Embedded PC Systems series. The unit combines a compact controller with standard I/O interfaces so it can run PLC logic, motion tasks, and HMI visualization directly on the machine it governs. This model can serve as a headless or panel-mounted controller where conventional rack PCs are too large or sensitive for cabinet environments. In conveyor lines, robotic cells, and process skids, it can replace separate PLC and IPC hardware, reducing panel space and simplifying wiring.

Computation is handled by an **Intel Atom E3827 1.75 GHz** processor with **two CPU cores**, allowing deterministic cyclic tasks while leaving processing capacity for visualization threads. The controller includes **4 GB of DDR3 RAM**, which supports large TwinCAT projects and local data buffering, while its graphics subsystem has 256 MB of dedicated memory for windowed HMIs. Removable storage is complemented by 1 MB of battery-backed persistent memory for retaining recipe data. The platform draws a maximum of **14 W** from the control cabinet's **24 V DC** supply, even when all interfaces are active. Its **four USB 2.0 ports** support service drives, scanners, and touch displays without additional hubs. The device is supplied without a TwinCAT runtime, allowing the appropriate license level to be selected for the application.

Two independent Ethernet controllers terminate at **two RJ45 sockets**, allowing separate machine and plant network segments or redundant fieldbus gateways. Local visualization panels can be connected through the **DVI-I output**, which carries analog and digital video formats over a single connector. During a brief supply interruption, the internal UPS maintains control voltage for **1 second**, providing time for buffered variables to be written before

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shutdown. The housing measures 100 mm high, 142 mm wide, and 92 mm deep, allowing the PC to fit on a standard DIN rail beside I/O couplers.

Specifications

Cpu Cores:	2	**Depth:**	92 mm	**Display Output:**	DVI-I
Graphics Memory:	256 MB	**Height:**	100 mm	**Integrated Ups:**	1-second
Lan Interfaces:	2 x RJ45	**Main Memory:**	4 GB DDR3-RAM	**Max Power Consumption:**	14 W
Persistent Data:	1 MB	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3827 1.75 GHz
Twincat Runtime:	No TwinCAT	**Usb Interfaces:**	4 x USB 2.0	**Width:**	142 mm
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