Beckhoff — CX Embedded PC Systems

CX5130-0125



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The **CX5130-0125** is an embedded PC produced by Beckhoff for the CX Embedded PC Systems series. Acting as the central controller in a machine or production line, the unit executes PLC logic, motion tasks, and fieldbus communication through its TwinCAT environment while mounting directly on a DIN rail beside I/O terminals. This compact computer brings PC-class processing into the control cabinet, eliminating the need for a separate industrial PC and allowing deterministic control software to coexist with Windows or headless real-time configurations.

Processing is handled by an **Intel Atom E3827** processor that runs at **1.75 GHz** and has **two cores**, providing parallel capacity for logic, HMI, and data-logging tasks. The system carries **4 GB of DDR3 RAM**, so buffering recipes or high-resolution process data does not encroach on memory reserved for real-time cycles. TwinCAT 3 Runtime (XAR) is preinstalled, allowing the device to download and execute IEC 61131-3 control programs. A CFast slot and a MicroSD slot provide removable flash storage for operating system images or historical trend files. Both slots are accessible from the top of the housing, allowing storage media to be exchanged without dismantling the connected wiring.

The maximum internal power consumption is **14 W**, allowing the CX5130 to share 24-volt rails with low-voltage sensors and other control equipment. The circuit withstands up to **500 V** between the supply and ground, supporting electrical isolation within control panels. A dedicated power input accepts **24 V DC**, and brownout protection is provided by an integrated UPS that preserves retained variables for one second with a 1 MB buffer. The enclosure has an **IP20** protection rating. Two Gigabit Ethernet interfaces with **2 × RJ45 ports supporting**

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10/100/1000 Mbit/s accommodate EtherCAT or standard IT networking, while four USB 2.0 ports supply up to 500 mA each for peripheral devices. The unit measures 142 mm × 100 mm × 92 mm, allowing it to fit within the depth of typical terminal blocks inside a control cabinet.

Specifications

Clock Frequency:	1.75 GHz	**Control Software:**	TwinCAT 3 Runtime (XAR)	**Cpu Cores:**	2
Dielectric Strength:	500 V	**Dimensions (w X H X D):**	142 mm x 100 mm x 92 mm	**Flash Storage:**	CFast slot and MicroSD slot
Integrated Ups:	1 s	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM
Max Power Consumption:	14 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3827
Protection Rating:	IP20	**Ups Data Size:**	1 MB	**USB Ports:**	4 x USB 2.0, 500 mA
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