Beckhoff — CX Embedded PC Systems

CX5130-0141



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The **CX5130-0141** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. As a compact DIN-rail controller, it combines PLC runtime, fieldbus master functions, and visualization capabilities into a single unit that coordinates I/O terminals, drives, and networked devices across an industrial installation. By integrating industrial Ethernet and local bus interfaces, the module replaces separate PLCs, gateways, and panel PCs, saving cabinet space in machinery and plant cells.

Inside, a dual-core **Intel Atom E3827** processor operating at **1.75 GHz** executes the TwinCAT 2 PLC Runtime, enabling deterministic task cycles for motion and process control. The controller provides **4 GB DDR3-RAM** for variable data, buffers, and operating system functions, while an internal graphics subsystem reserves **256 MB** of shared memory for diagnostic or HMI output over optional displays. Non-volatile storage is handled by interchangeable CFast and MicroSD slots, allowing program updates or recipe transfer without opening the housing. For plant networking the unit offers **2 x RJ45** ports that negotiate link speeds up to **10/100/1000 Mbit/s**, giving direct access to EtherCAT, Modbus TCP, or standard Ethernet segments without external switches.

The power section accepts regulated **24 V DC** and draws a maximum of **14 W**, so heat dissipation remains low even in sealed cabinets. Four high-speed user interfaces are available through **4 x USB 2.0** sockets, each supplying 500 mA for service tools or data sticks. Dielectric strength of 500 V between supply and housing protects internal circuits against wiring faults, and DIN-rail clamps support the 142 mm × 100 mm × 92 mm aluminum enclosure. The modest volume leaves space for additional I/O slices, while twin CFast and MicroSD slots simplify maintenance

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without shutting down upstream distribution panels.

Specifications

Control Software:	TwinCAT 2 PLC Runtime	**Cpu Clock:**	1.75 GHz	**Cpu Cores:**	2
Dielectric Strength:	500 V	**Dimensions (w X H X D):**	142 mm x 100 mm x 92 mm	**Flash Storage Slots:**	CFast + MicroSD
Graphic Memory:	256 MB (shared memory)	**Lan Ports:**	2 x RJ45	**Lan Speed:**	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	**Usb Port Current:**	500 mA	**Usb Ports:**	4 x USB 2.0
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