Beckhoff — CX Embedded PC Systems

CX5130-0112



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The **CX5130-0112** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. Intended for DIN-rail installation alongside EtherCAT or Bus Terminals, it combines controller, communication, and visualization functions so a single device can run PLC logic, motion control, and a local HMI in industrial automation cells. Running TwinCAT software on a Windows platform, the unit provides deterministic task execution while remaining compatible with standard IT tools, allowing it to connect plant-floor signals with higher-level data processing systems.

Processing performance comes from an **Intel Atom E3827** system-on-chip configured with **two cores** clocked at **1.75 GHz**; this dual-core arrangement enables separate real-time and background threads without contention. The controller carries **4 GB DDR3 RAM**, providing volatile memory for sizable TwinCAT projects and transient process data. Two Ethernet controllers connect through two RJ45 jacks, and their line rate of **10/100/1000 Mbit/s** supports EtherCAT communication and standard TCP/IP traffic. Graphics tasks are handled by an integrated engine with 256 MB of dedicated memory that can drive a DVI-I monitor at resolutions up to 1920 × 1200 pixels. This capability allows a local operator panel to run without a separate PC. Four USB 2.0 ports accommodate storage devices, barcode readers, or backup drives, while the internal CFast slot hosts the solid-state system volume.

Electrical integration relies on a **24 V DC** supply, and the unit consumes up to **14 W** under maximum load. The **IP20** housing protects internal components against accidental contact and solid objects larger than 12.5 mm. Electrical isolation withstands 500 V between the supply and signal lines. Power contacts on the terminal bus can

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carry 10 A, while the logic side supplies 2 A to attached I/O terminals. A 1 MB UPS buffer on the CFast card secures the most recent process image during a sudden power outage. The cast-aluminum housing measures **142 × 100 × 92 mm** and weighs 1,095 g, allowing it to fit alongside standard Beckhoff terminal assemblies.

Specifications

Core Count:	2	**Cpu Frequency:**	1.75 GHz	**Depth:**	92 mm
Dielectric Strength:	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm	**Dvi-i Max Resolution:**	1920 x 1200
Graphics Memory:	256 MB	**Height:**	100 mm	**I/o Terminal Supply:**	2 A
Lan Ports:	2 x RJ45	**Lan Speed:**	10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM
Max Power:	14 W	**Max Power Consumption:**	14 W	**Number Of Cores:**	2
Power Contacts Load:	10 A	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3827
Protection Rating:	IP20	**Ups Buffer:**	1 MB On CFast Card	**Usb Ports:**	4 x USB 2.0
Weight:	1095 g	**Width:**	142 mm	**Last Verified:**	11/19/2026 10:48 AM

Contact Us

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