Beckhoff — CX Embedded PC Systems

CX5130-0140



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The **CX5130-0140** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It functions as a compact PLC and visualization node within industrial automation cells. The unit mounts directly on a DIN rail and executes user logic, manages fieldbus communication, and supports local HMI tasks inside control cabinets.

Processing relies on an **Intel Atom E3827** that operates at **1.75 GHz**. The processor has **two cores** for deterministic multitasking across control, communication, and visualization processes. Its system memory includes **4 GB of DDR3 RAM**, providing space for real-time code, databases, and data buffering. Two Ethernet controllers connect through **two RJ45 ports supporting 10/100/1000 Mbit/s**, allowing the unit to separate operational technology networks from enterprise traffic or support redundant network arrangements. A CFast slot and a MicroSD slot accommodate removable flash media. The integrated uninterruptible power supply buffers 1 MB of data for one second on the CFast card, helping preserve process images during a brief loss of power. Internal graphics hardware can operate at up to 792 MHz and shares 256 MB of system memory for web panels and local diagnostic displays. Dielectric isolation of 500 V helps protect the logic circuitry from electrical transients within the cabinet.

The DVI-I display output supports a maximum resolution of **1920 × 1200**, allowing connection to widescreen operator stations without an additional graphics processor. Peripheral access is provided by **four USB 2.0 Type A ports rated at 500 mA each**, which can connect mass-storage devices, input peripherals, or low-power sensors. Overall power consumption remains within **14 W**, helping limit temperature rise inside the enclosure and allowing

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passive cooling. The housing has an **IP20** rating, so the unit must be installed in a protected electrical cabinet. Its compact DIN-rail format conserves panel space while keeping the communication, storage, display, and peripheral connections accessible. The CFast and MicroSD media slots also allow application data and system images to be stored separately when the control installation requires distinct storage areas.

Specifications

Clock Speed:	1.75 GHz	**Core Count:**	2	**Dielectric Strength:**	500 V
Flash Media:	CFast Slot + MicroSD Slot	**Graphics Burst Clock:**	792 MHz	**Graphics Memory:**	256 MB (Shared)
Lan Ports:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	4 GB DDR3-RAM	**Max Dvi-i Resolution:**	1920 x 1200
Max Power Consumption:	14 W	**Processor:**	Intel Atom E3827	**Protection Rating:**	IP20
Twincat Runtime:	None	**Ups Buffer:**	1 s, 1 MB On CFast Card	**Usb Ports:**	4 x USB 2.0, 500 mA, Type A
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