Beckhoff — CX Embedded PC Systems

CX5140-0110



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The **CX5140-0110** is an embedded PC produced by Beckhoff for the CX Embedded PC Systems series. Within an automation cell, it replaces separate PLC, HMI, and gateway hardware by executing control logic, handling visualization, and sharing process data over standard Ethernet-based fieldbuses. Its compact housing and DIN-rail mounting allow the unit to sit directly inside a machine cabinet so that sensors, drives, and higher-level networks can connect through short, shielded cable runs.

The computing section is driven by an **Intel Atom E3845 1.91 GHz** processor with **4 logical cores** to run deterministic real-time tasks alongside the installed Windows Embedded Compact 7 operating system. A soldered **4 GB DDR3 RAM** module stores application code and variable tables, while the graphics controller allocates **256 MB** of shared memory to render local panels through the DVI-I output at up to **1920 × 1200 pixels**. Boot media and recipe files reside on interchangeable CFast or MicroSD cards, allowing system images to be accessed without opening the enclosure. The electronics receive 24 V DC power, and internal barriers withstand 500 V of dielectric stress between the system voltage and protective earth.

Two Gigabit interfaces provide networking through **2 × RJ45 ports with 10/100/1000 Mbit/s connections**, while peripheral modules such as barcode readers or service laptops attach to **4 × USB 2.0 ports** rated at 500 mA each. Typical heat dissipation is limited to **16 W**, rising to 23 W when the integrated UPS bridges incoming power for the specified one-second hold-up period. The aluminum chassis measures **142 × 100 × 92 mm** and carries an IP20 rating, so it is installed in closed control cabinets where ambient dust and moisture are managed.

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Specifications

Core Count:	4	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Graphics Memory:	256 MB (shared)	**Integrated Ups:**	1 s	**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:**	16 W
Max Power With Ups:	23 W	**Operating System:**	Windows Embedded Compact 7	**Power Supply:**	24 V DC
Processor:	Intel Atom E3845 1.91 GHz	**Protection Rating:**	IP20	**Storage Slots:**	CFast card slot; MicroSD card slot
Usb Ports:	4 x USB 2.0, 500 mA, Type A	**Last Verified:**	11/20/2026 5:04 PM		

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