Beckhoff — CX Embedded PC Systems

CX5140-0142



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The **CX5140-0142** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. This DIN-rail unit functions as the central control platform in automated equipment, running IEC 61131-3 logic, motion sequences, and HMI interfaces on a single board. It includes the TwinCAT 2 NC PTP runtime, enabling deterministic point-to-point positioning without separate motion controllers. The device is designed to replace traditional rack PCs and standalone PLCs, reducing cabinet space while offering deterministic control over distributed I/O through the system's E-bus or K-bus terminals.

At its core, the Intel Atom E3845 processor delivers a clock frequency of **1.91 GHz**, and the quad-core architecture provides **4 parallel execution threads** for soft real-time tasks. The controller carries **4 GB of DDR3 RAM**, providing space for user programs and buffered process data, while **256 MB of dedicated graphics memory** supports low-overhead visualization on connected displays. Electrical consumption remains within **16 W during standard operation**; peak demand rises to 23 W when the integrated one-second UPS recharges. An additional 10 W rail powers the E-bus or K-bus terminal electronics, and 500 V dielectric strength isolates the external power domain from the internal logic.

System interfaces include **two RJ45 10/100/1000 Mbit/s Ethernet ports** for fieldbus coupling or OPC UA networking and **four USB 2.0 Type-A sockets** for service peripherals or removable media. The integrated UPS bridges input failures for one second, allowing data to be written to flash before shutdown. The supply voltage is **24 V DC**, and the housing measures **142 × 100 × 92 mm**, enabling installation in shallow control panels where depth

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is limited. Passive aluminum heat dissipation keeps core temperatures stable under industrial ambient conditions.

Specifications

Clock Speed:	1.91 GHz	**Control Runtime:**	TwinCAT 2 NC PTP Runtime	**Cpu Cores:**	4
Dielectric Strength:	500 V	**Dimensions:**	142 x 100 x 92 mm	**E-bus/k-bus Power:**	10 W
Graphics Memory:	256 MB	**Integrated Ups:**	1 s	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Power:**	16 W	**Max Power With Ups:**	23 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3845	**Usb Ports:**	4 x USB 2.0 Type A
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