Beckhoff — CX Embedded PC Systems

CX5140-0141



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The **CX5140-0141** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It combines PLC, motion, and visualization functions in a DIN-rail form factor for machine controllers and building automation nodes. By integrating fieldbus master interfaces and local terminals, the device serves as the central processor that executes deterministic logic and communicates with I/O, drives, and supervisory MES layers. Its compact housing supports control cabinets where space is limited while preserving the performance required for real-time industrial tasks.

Performance is centered on the **Intel Atom E3845** quad-core processor. Each core runs at **1.91 GHz**, allowing cyclic tasks to complete within short scan times. The architecture provides **4 execution lanes** that TwinCAT 2 PLC Runtime assigns to tasks or communication threads. Program variables and buffers reside in **4 GB DDR3 RAM**, keeping data exchange within the chipset and avoiding external paging delays. Maximum continuous power consumption is limited to **16 W**, so the heat sink stays within safe limits under typical loads. Two amperes are available on the I/O terminal supply rail, and eight power contacts can carry up to 10 A for downstream modules. Four USB 2.0 ports accept service keys, scanners, or local HMI panels without additional hubs. The housing measures 142 × 100 × 92 mm, simplifying cabinet layout.

When the integrated UPS detects a supply drop, a one-second buffer preserves process data before shutdown. Power demand temporarily rises to **23 W** while the UPS batteries recharge afterward. The system operates from a nominal **24 V DC** source and provides a dielectric strength of **500 V** between the supply and ground. Its **IP20**

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enclosure confines the unit to clean, dry locations but permits high-density mounting on standard DIN rails. Protection circuitry monitors contact loading so that the 10 A feed remains within its operating limit, while status LEDs indicate the TwinCAT runtime, Ethernet link, and UPS state.

Specifications

Clock Speed:	1.91 GHz	**Control Software:**	TwinCAT 2 PLC Runtime	**Cpu Cores:**	4
Dielectric Strength:	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm	**I/o Terminal Supply:**	2 A
Integrated Ups:	1 s	**Main Memory:**	4 GB DDR3-RAM	**Max Power Consumption:**	16 W
Max Power With Ups Charging:	23 W	**Power Contacts Load:**	10 A	**Power Supply:**	24 V DC
Processor:	Intel Atom E3845	**Protection Rating:**	IP20	**Usb Ports:**	4 x USB 2.0
Last Verified:	11/20/2026 5:46 AM				

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