Beckhoff — CX Embedded PC Systems

CX5140-0123



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The **CX5140-0123** is an embedded PC produced by Beckhoff for the CX Embedded PC Systems series. Designed as a DIN-rail control platform, the unit consolidates PLC, motion, and visualization tasks in a single fanless enclosure so that machines or production cells can be driven from one compact controller. In an industrial automation line, it replaces separate PLC racks and panel PCs, reducing cabinet space while still supporting deterministic fieldbus communication and real-time task handling.

Its computing section is powered by an **Intel Atom E3845, 1.91 GHz** processor that contains **4** physical cores, allowing parallel execution of PLC logic and user interfaces. Application data reside in **4 GB DDR3 RAM**, while program and recipe files are stored on a CFast card with a minimum capacity of **40 GB**. The installed operating system is **Windows Embedded Standard 7 P 32-bit**, providing access to standard Microsoft APIs and Beckhoff drivers. TwinCAT 2 NC I Runtime is prelicensed on the device, so axis interpolation and camming functions can run directly on the controller without external motion cards. Four front-mounted USB 2.0 ports deliver 500 mA each for local operator panels, USB flash drives, or I/O couplers.

Two Gigabit Ethernet ports with **2 x RJ45, 10/100/1000 Mbit/s** connections provide fieldbus gateways to EtherCAT, Modbus TCP, or plant IT networks. The controller operates from a **24 V DC** source and typically consumes **16 W**; power consumption rises to 23 W when the optional UPS module is attached. Internal circuits provide up to 500 V of dielectric strength between the power supply and housing, matching control cabinet insulation practices. The enclosure has an **IP20** rating, so the unit must be mounted inside an enclosed panel. The controller measures

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100 mm high, 142 mm wide, and 92 mm deep, allowing it to share standard terminal segment spacing with other Beckhoff modules.

Specifications

Control Software:	TwinCAT 2 NC I Runtime	**Cpu Cores:**	4	**Depth:**	92 mm
Dielectric Strength:	500 V	**Height:**	100 mm	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Min Cfast Capacity:**	40 GB	**Operating System:**	Windows Embedded Standard 7 P 32-bit
Power Draw:	16 W	**Power Draw With Ups:**	23 W	**Power Supply:**	24 V DC
Processor:	Intel Atom E3845, 1.91 GHz	**Protection Rating:**	IP20	**Usb:**	4 x USB 2.0, 500 mA, Type A
Width:	142 mm	**Last Verified:**	11/20/2026 8:42 AM		

Contact Us

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