Beckhoff — CX Embedded PC Systems

CX5140-0143



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The **CX5140-0143** is an embedded PC module manufactured by Beckhoff and supplied in the CX Embedded PC Systems series. Designed for DIN-rail installation, the unit functions as the central controller for small and midsize machines by executing PLC code, interpolating axes, and hosting operator interfaces. Its role in industrial automation is to combine controller performance and open-standard communication in a single, space-saving platform.

Computation is handled by an **Intel Atom E3845 1.91 GHz processor** whose four cores support deterministic multitasking under the preinstalled **Windows 10 IoT Enterprise 2016 LTSB 32-bit operating system**. A **4 GB DDR3 RAM bank** stores executable code and real-time variables, while program data can be retained on cards installed in the CFast and MicroSD slots. For networking, **two RJ45 interfaces supporting 10/100/1000 Mbit/s** accommodate machine, supervisory, and cloud traffic. Local peripherals connect through **four USB 2.0 Type A ports rated at 500 mA**, enabling barcode readers or service drives to draw power directly from the controller. The unit runs Beckhoff TwinCAT 2 NC I Runtime, allowing G-code motion tasks to operate alongside PLC logic. Its internal graphics engine can operate at up to 792 MHz and uses 256 MB of shared memory, providing basic HMI visualization without an external graphics card.

Control cabinet integration is supported by the **24 V DC power supply** requirement. The unit typically draws **16 W** and can draw up to 23 W when an internal UPS module is active. Signal isolation withstands a dielectric strength of 500 V between the supply and system ground. The aluminum housing measures **142 × 100 × 92 mm**, allowing it

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to fit next to standard terminal blocks on a TS35 rail. An ingress protection rating of **IP20** makes the unit suitable for clean indoor panels with adequate airflow.

Specifications

Control Software:	TwinCAT 2 NC I Runtime	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Ethernet Ports:	2 x RJ45, 10/100/1000 Mbit/s	**Flash Memory:**	CFast Slot + MicroSD Slot	**Graphics Burst Clock:**	792 MHz
Graphics Memory:	256 MB (shared)	**Main Memory:**	4 GB DDR3-RAM	**Max Power Consumption:**	16 W
Max Power With Ups:	23 W	**Number Of Cores:**	4	**Operating System:**	Windows 10 IoT Enterprise 2016 LTSB 32-bit
Power Supply:	24 V DC	**Processor:**	Intel Atom E3845 1.91 GHz	**Protection Rating:**	IP20
Usb Ports:	4 x USB 2.0, 500 mA, Type A	**Last Verified:**	11/20/2026 3:34 AM		

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