Beckhoff — CX Embedded PC Systems

CX5140-0170



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The **CX5140-0170** is an embedded PC manufactured by Beckhoff and supplied within the CX Embedded PC Systems series. Designed for DIN-rail installation, the unit consolidates control, communication, and visualization in one compact housing, enabling it to execute PLC tasks, motion control, and local HMI functions directly on machinery and process equipment throughout industrial automation environments. Its passively cooled aluminum enclosure eliminates moving parts, which makes it suitable for continuous operation in control cabinets.

Performance is provided by an **Intel Atom E3845 1.91 GHz** processor with **4 physical cores**, allowing deterministic multitasking of Windows Embedded and TwinCAT real-time threads. The CPU is paired with **4 GB DDR3 RAM**, providing space for user programs and historical data buffers. Operating code and project files reside on a CFast card or microSD module that fits into a front-panel slot for easy access. An integrated GPU shares 256 MB of system memory and drives the DVI-I port, while the networking section provides **2 × RJ45, 10/100/1000 Mbit/s interfaces** for OPC UA or standard TCP/IP traffic. Power consumption remains at **16 W** during typical operation, and the electronics accept a **24 V DC** cabinet supply through a spring-cage terminal.

The controller measures 142 × 100 × 92 mm, leaving space for I/O terminal rows in shallow enclosures. When a Beckhoff UPS module is attached, power consumption increases to **23 W**, and a nonvolatile buffer preserves 1 MB of process data so sequence counters and alarm states survive a power loss. The DVI-I transmitter supports displays with resolutions up to **1920 × 1200 pixels**, enabling high-resolution operator panels without additional adapters. A mass of **1095 g** allows the unit to be secured to a DIN rail without placing excessive stress on the rail or adjacent

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modules.

Specifications

Cpu Cores:	4	**Dimensions (w X H X D):**	142 x 100 x 92 mm	**Dvi-i Max Resolution:**	1920 x 1200
Flash Storage:	CFast + MicroSD Slots	**Graphics Memory:**	256 MB Shared	**Lan:**	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 1.91 GHz	**Ups Backup Data:**	1 MB
Usb:	4 x USB 2.0	**Weight:**	1095 g	**Last Verified:**	11/20/2026 8:40 AM

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