Beckhoff — CX Embedded PC Systems

CX5140-0130



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The **CX5140-0130** is an embedded PC module developed by Beckhoff within the CX Embedded PC Systems series. Serving as a compact control platform, the unit combines processing resources, I/O interfaces, and fieldbus connectivity so that PLC, motion, and HMI tasks can run directly at the machine level without an external industrial computer. By placing computing and communication functions in a small enclosure, it supports decentralized automation architectures in factories and process plants.

The unit uses a CPU with **four processing cores**, allowing user programs to distribute logic, visualization, and communication tasks across multiple threads. System responsiveness is supported by **4 GB of DDR3 RAM**, providing volatile storage for large control projects and real-time data buffering. Network integration relies on **2 × RJ45 ports with 10/100/1000 Mbit/s support**, permitting separate Ethernet connections for control and supervisory networks. A built-in DVI-I interface drives external monitors at resolutions up to **1920 × 1200**, so local HMI content can be displayed without an additional graphics card. The controller allocates 256 MB of shared memory to graphics processing. Four front-panel Type-A receptacles provide **4 × USB 2.0 host connections**, each rated at 500 mA, for connecting scanners, USB flash drives, and service adapters.

The PC operates within an ambient temperature range of **-25 °C to +60 °C**, allowing cold starts in unheated locations and operation in warm control cabinets with suitable ventilation. Typical power consumption is **16 W**, while operation with the optional uninterruptible power supply increases the requirement to 23 W. The power input accepts **24 V DC with a tolerance of -15% to +20%**, accommodating common supply fluctuations during load

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changes. Internal insulation withstands a dielectric test voltage of 500 V. The **IP20 housing** protects against contact with hazardous internal parts and the entry of solid objects larger than 12.5 mm, but it does not provide water protection. The enclosure measures 142 × 100 × 92 mm and weighs 1,095 g, allowing installation beside terminal blocks and other cabinet-mounted control components.

Specifications

Cpu Cores:	4	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Dvi-i Max Resolution:	1920 x 1200	**Graphics Memory:**	256 MB (Shared)	**Lan Ports:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Power Draw:**	16 W	**Max Power With Ups:**	23 W
Operating Temp:	-25 °C To +60 °C	**Power Supply:**	24 V DC (-15 %/+20 %)	**Protection Rating:**	IP20
Usb Ports:	4 x USB 2.0, 500 mA, Type A	**Weight:**	1095 g	**Last Verified:**	11/19/2026 7:18 PM

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