Beckhoff — CX Embedded PC Systems

CX5120-0150



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The **CX5120-0150** embedded PC is produced by Beckhoff and belongs to the CX Embedded PC Systems series. This DIN-rail module acts as the central processor in distributed control panels, hosting IEC 61131-3 logic, visualization, and motion control duties in one enclosure. By consolidating these tasks, the device streamlines cabinet layouts and places deterministic computing power directly beside field I/O, drives, and measurement hardware in industrial automation cells.

An **Intel Atom E3815** processor provides the computing core, operating at **1.46 GHz** and supported by 2 MB of on-chip cache for cycle-accurate program execution. System data and user programs reside in **2 GB DDR3 RAM**, while removable CFast and microSD slots add nonvolatile storage for recipe or log files. Two independent Ethernet controllers support line speeds of **10/100/1000 Mbit/s**, allowing one port to link upstream to SCADA networks while the second connects EtherCAT or standard TCP/IP devices without an external switch. The control electronics draw power from a single **24 V DC** supply, which simplifies integration with common machine power buses and removes the need for auxiliary AC feeds.

Total power consumption stays below **11 W**, so the unit can share compact power supplies with sensors without overloading them. The computer has **four USB 2.0 Type A host ports** that allow laptops, barcode scanners, or flash drives to connect directly for maintenance or data transfer. Network cabling terminates on **two RJ45 jacks** that are recessed in the housing to prevent accidental disconnection during vibration. The control circuits withstand a dielectric test of **500 V** between the supply and ground, providing isolation against cabinet transients. A built-in

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UPS bridges power outages for one second, preserving process variables before an orderly shutdown. The enclosure measures 122 × 100 × 92 mm and weighs 975 g, keeping DIN-rail loading low in modular control cabinets.

Specifications

Cpu Clock Speed:	1.46 GHz	**Cpu Cores:**	1	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	122 x 100 x 92 mm	**Ethernet Ports:**	2 x RJ45	**Ethernet Speed:**	10/100/1000 Mbit/s
Flash Media:	CFast Slot; MicroSD Slot	**Integrated Ups:**	1 Second	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	11 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Twincat:	No TwinCAT	**Usb Ports:**	4 x USB 2.0 Type A	**Weight:**	975 g
Last Verified:	11/19/2026 6:50 AM				

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