Beckhoff — CX Embedded PC Systems

CX5120-0163



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The **CX5120-0163** embedded PC is manufactured by Beckhoff and is part of the CX Embedded PC Systems series. This DIN-rail unit integrates computing power, fieldbus communication, and local I/O expansion within a compact industrial controller. It can execute PLC logic, motion sequences, and HMI tasks at the machine level in industrial automation systems. Its modular design also supports direct connection to distributed terminals, reducing the amount of separate control hardware required inside the cabinet.

The computing section uses an **Intel Atom E3815 1.46 GHz** processor paired with **2 GB DDR3 RAM**. The single-core processor and installed memory support deterministic cycle times for midrange control applications. For device and network connectivity, the controller provides **2 × RJ45 10/100/1000 Mbit/s Ethernet ports** for real-time fieldbus traffic. It also includes **4 × USB 2.0 ports rated at 500 mA each** for local peripherals such as keyboards and removable data storage. Maximum internal power consumption remains within **11 W**, allowing the controller to operate from low-power cabinet supplies. Auxiliary loads can draw up to 2 A through the I/O power feed and 10 A through the power contacts. The graphics output uses 256 MB of shared system memory, allowing the controller to display compact HMI applications without dedicated video memory. Electrical isolation is supported by a dielectric strength of 500 V.

The **122 × 100 × 92 mm** housing minimizes the installation space required on a DIN rail. Cabinet wiring is simplified because the embedded PC operates from a **24 V DC** control supply. The enclosure has an **IP20** protection rating and is intended for installation in an enclosed control panel. Heat is dissipated through the cabinet

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environment, where suitable airflow must be provided around the module. The system includes**TwinCAT 2 NC I Runtime**, which supports PLC tasks and coordinated axis interpolation. An integrated UPS hold-up capacitor allows the electronics to continue operating through a mains interruption lasting up to one second, providing time for controlled data handling during a brief power loss.

Specifications

Control Software:	TwinCAT 2 NC I Runtime	**Cpu Cores:**	1	**Dielectric Strength:**	500 V
Dimensions:	122 x 100 x 92 mm	**Ethernet Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**Graphics Memory:**	256 MB shared
Main Memory:	2 GB DDR3-RAM	**Max I/o Supply:**	2 A	**Max Power:**	11 W
Max Power Contacts:	10 A	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815 1.46 GHz
Protection Rating:	IP20	**Ups Hold-up:**	1 s	**Usb Ports:**	4 x USB 2.0, 500 mA each
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