Beckhoff — CX Embedded PC Systems

CX5120-0160



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The **CX5120-0160** embedded PC is produced by Beckhoff and belongs to the CX Embedded PC Systems series. It combines PLC, motion-control, and HMI functions in a compact DIN-rail unit for distributed automation cabinets. By integrating fieldbus interfaces with a standard operating system, the unit can run deterministic control code alongside Windows-based visualization applications. It also connects directly to Beckhoff I/O terminals, reducing the need for separate controllers and additional cabinet wiring.

An **Intel Atom E3815 processor** operates at **1.46 GHz**, and its **single-core architecture** supports real-time execution of control tasks. The processor is paired with **2 GB of DDR3 RAM** for application data and operating system functions. A **256 MB shared graphics section** supports local displays without requiring a separate graphics processor. Network communication uses **two RJ45 ports supporting 10/100/1000 Mbit/s** for fieldbus tunneling, remote programming, and SCADA traffic. Peripheral access is provided by **four USB 2.0 ports supplying up to 500 mA each**, which can accommodate scanners, input devices, and USB storage media. TwinCAT is not preloaded, allowing the appropriate runtime to be installed for the intended control application.

The aluminum housing measures **122 × 100 × 92 mm** and mounts on a DIN rail inside a control cabinet. Its **IP20 protection rating** prevents accidental contact with internal electrical parts while permitting ventilation through the enclosure. Peak device power consumption is 11 W, which helps limit heat generation within compact panels. Two spring-clamp terminal blocks accept a regulated 24 V DC control supply. The internal I/O bus can provide up to 2 A, while separate power contacts can carry loads of up to 10 A for connected actuators. An internal uninterruptible

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power supply maintains logic voltage for one second, providing enough time for the system to complete an orderly shutdown after the main supply is interrupted.

Specifications

Clock Speed:	1.46 GHz	**Cpu Cores:**	1	**Dimensions (W x H x D):**	122 x 100 x 92 mm
Ethernet:	2 x RJ45, 10/100/1000 Mbit/s	**Graphics Memory:**	256 MB (shared memory)	**Main Memory:**	2 GB DDR3-RAM
Max I/o Supply:	2 A	**Max Power Contact Load:**	10 A	**Max Power Draw:**	11 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3815	**Protection Rating:**	IP20
Twincat:	No TwinCAT	**Ups Duration:**	1 s	**Usb:**	4 x USB 2.0, 500 mA each
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Contact Us

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