Beckhoff — CX Embedded PC Systems

CX5120-0143



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The **CX5120-0143** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. Designed for DIN-rail mounting, it merges control, networking, and visualization tasks so that a single device can execute PLC programs, serve HMI pages, and route fieldbus traffic on automated machines and building systems. Its compact form factor positions it between microcontrollers and full industrial PCs, offering deterministic performance while conserving cabinet space.

Its computing core is an Intel Atom E3815 single-core processor that runs at **1.46 GHz**. The single core is supported by **2 GB of DDR3 RAM**, which is sufficient to host a real-time operating system, user logic, and local databases. A separate 256 MB block of graphics memory drives the integrated display interfaces without using system RAM. Two Gigabit Ethernet ports use **2 × RJ45 sockets rated for 10/100/1000 Mbit/s**, supporting deterministic EtherCAT and conventional TCP/IP traffic. Four high-speed USB connectors are provided as **4 × USB 2.0 Type-A ports** for removable media, barcode readers, and other compatible devices; each port can supply up to 500 mA. During a brownout, an internal UPS capacitor maintains power to the logic for one second so the controller can save variables before shutting down. Even at full load, the device draws only **11 W**, keeping thermal dissipation modest and allowing passive cooling inside shallow cabinets.

The housing measures **122 × 100 × 92 mm**, so the unit fits beside I/O terminals without overhanging the rail. A **24 V DC** supply powers the logic through a pluggable spring terminal. Internal circuitry withstands momentary line spikes through a dielectric strength of **500 V** between isolated sections. The enclosure has an ingress protection

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rating of **IP20**, providing protection against accidental finger contact when the unit is installed inside a control cabinet.

Specifications

Cpu Clock:	1.46 GHz	**Cpu Cores:**	1	**Dielectric Strength:**	500 V
Dimensions:	122 x 100 x 92 mm	**Graphics Memory:**	256 MB	**Lan Interface:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	2 GB DDR3 RAM	**Max Power Draw:**	11 W	**Processor:**	Intel Atom E3815
Protection Rating:	IP20	**Supply Voltage:**	24 V DC	**Ups Backup:**	1 s
Usb Port Current:	500 mA	**Usb Ports:**	4 x USB 2.0, Type A	**Last Verified:**	11/18/2026 7:50 PM

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