Beckhoff — CX Embedded PC Systems

# CX5120-0120




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The **CX5120-0120** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. Mounted on a DIN rail, the fanless controller combines processor, memory, and fieldbus interfaces to act as the central PLC and HMI platform inside compact machines. It is supplied without a TwinCAT runtime, allowing integrators to load the automation software needed for the application.

It is built around a single-core **Intel Atom E3815** with a base frequency of **1.46 GHz**, which is adequate for deterministic control tasks and moderate HMI workloads. The processor accesses **2 GB DDR3-RAM**, providing volatile storage for cyclic variables, buffers, and operating-system services. Electrical input is provided by a **24 V DC** supply. With a maximum power draw of **11 W**, the module generates little heat and can share a low-current cabinet supply with sensors and actuators. Internal protection against brownouts is provided by a one-second integrated UPS, allowing the file system to close cleanly if the 24 V supply drops. The circuitry provides 500 V of dielectric strength between the power input and housing. Integrated Intel HD Graphics operate at a base clock of 400 MHz and reserve 256 MB of shared system memory for local display output.

The **122 × 100 × 92 mm** enclosure supports compact, side-by-side installation inside control cabinets. Its **IP20** protection rating suits dry indoor locations and protects against accidental contact with internal electrical components. Removable mass storage is available through a **CFast** slot and a **MicroSD interface**, enabling operating-system image transfers and software updates without opening the chassis. A DVI-I port provides a connection for local display output when machine visualization or diagnostic access is required.

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## Specifications

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| **Core Count:** | 1 | **Cpu Frequency:** | 1.46 GHz | **Dielectric Strength:** | 500 V |
| **Dimensions (w X H X D):** | 122 x 100 x 92 mm | **Graphics Base Clock:** | 400 MHz | **Graphics Core:** | Intel HD Graphics |
| **Graphics Memory:** | 256 MB Shared | **Integrated Ups:** | 1 s | **Main Memory:** | 2 GB DDR3-RAM |
| **Max Power Consumption:** | 11 W | **Power Supply:** | 24 V DC | **Processor:** | Intel Atom E3815 |
| **Protection Rating:** | IP20 | **Storage Media:** | CFast; MicroSD | **Twincat Runtime:** | None |
| **Last Verified:** | 11/20/2026 9:24 PM | | | | |

## Contact Us


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