Beckhoff — CX Embedded PC Systems

CX5120-0121



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The **CX5120-0121** is an embedded PC from Beckhoff that belongs to the CX Embedded PC Systems series. Designed for DIN-rail installation inside electrical panels, the unit acts as a compact control platform that combines PLC logic, motion control, and visualization tasks within one housing. By running real-time automation software, it interfaces directly with fieldbus modules and I/O terminals, allowing machine builders to consolidate separate hardware layers into a single CPU-based controller.

At its core, the device uses a **1.46 GHz Intel Atom E3815** processor with a single computing core, providing deterministic execution for PLC cycles. The system board carries **2 GB DDR3 RAM** to hold the operating system, user programs, and real-time data tables. Nonvolatile storage is available through CFast and microSD slots, so system images and machine recipes survive power loss. A maximum power draw of **11 W** keeps panel heat dissipation modest, and the electronics are supplied through a protected **24 V DC** input. Integrated graphics run at a 400 MHz base clock and share 256 MB of memory, enabling local HMI output through the optional DVI interface. An internal capacitor bank provides a one-second UPS buffer that allows volatile data to be saved before shutdown.

Communication and expansion are handled by **2 × RJ45 ports with 10/100/1000 Mbit/s Ethernet** for fieldbus routing or system access. The unit also has **4 × USB 2.0 host sockets** that deliver 500 mA each to scanners, storage devices, or WLAN adapters. The controller executes the **TwinCAT 2 PLC runtime**, so IEC 61131-3 tasks can be deployed without external gateways. Its slim enclosure measures 122 × 100 × 92 mm, while the **IP20** enclosure rating suits clean cabinet zones where convection airflow is sufficient. Dedicated graphics processing

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operates independently of Ethernet throughput, and the single-core architecture supports applications that require only one runtime.

Specifications

Cpu Clock:	1.46 GHz	**Cpu Cores:**	1	**Dimensions (W x H x D):**	122 x 100 x 92 mm
Flash Storage:	CFast + MicroSD slots	**Graphics Base Clock:**	400 MHz	**Graphics Memory:**	256 MB (shared)
Lan Interfaces:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power:**	11 W
Power Supply:	24 V DC	**Processor:**	Intel Atom E3815	**Protection Rating:**	IP20
Twincat Runtime:	TwinCAT 2 PLC runtime	**Ups Buffer Time:**	1 s	**Usb Interfaces:**	4 x USB 2.0, 500 mA
Last Verified:	11/19/2026 6:51 AM				

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