Beckhoff — CX Embedded PC Systems

CX5120-0125



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The **CX5120-0125** is an embedded PC module manufactured by Beckhoff as part of the CX Embedded PC Systems series. Designed to serve as the central control platform in distributed automation cabinets, it combines processing, memory, and fieldbus functions in a housing that mounts on a 35 mm DIN rail. When installed next to I/O terminals, it runs PLC, motion, and visualization programs without requiring a separate rack computer. The module can execute deterministic logic, collect machine data, and communicate with higher-level networks through its integrated Ethernet ports.

The device uses an **Intel Atom E3815** processor that operates at **1.46 GHz** on a single core. This low-power architecture supports sequence control and HMI tasks while limiting heat generation inside the cabinet. The processor is supported by **2 GB of DDR3 RAM**, providing working memory for TwinCAT tasks and operating system services. Power consumption remains within **11 W** under full computational load, which keeps enclosure ventilation requirements modest. A **24 V DC power supply** feeds the internal converters, while dielectric isolation of 500 V separates the supply from the low-voltage circuits. The module runs TwinCAT 3 Runtime (XAR), and its preinstalled Windows Embedded Standard 7 P 32-bit operating system supports compatible control and visualization applications.

The dual storage interface accepts **one CFast card** and an additional microSD card for persistent program and machine data. The CFast medium includes a 1 MB UPS buffer that records variables during the integrated UPS hold-up time of one second. The front panel provides **four USB 2.0 sockets rated at 500 mA** for programming

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devices, removable media, and compatible peripheral equipment. Network traffic is handled through **two independent RJ45 ports supporting 10/100/1000 Mbit/s**, allowing separate connections for machine networks and higher-level systems. The electronics are enclosed in an **IP20 housing**, which protects against accidental contact with internal components when the module is installed inside a suitable control panel.

Specifications

Control software:	TwinCAT 3 Runtime (XAR)	**Cpu Clock:**	1.46 GHz	**Cpu Cores:**	1
Dielectric Strength:	500 V	**Integrated Ups:**	1 s	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s
Main memory:	2 GB DDR3-RAM	**Max Power:**	11 W	**Operating System:**	Windows Embedded Standard 7 P 32-bit
Power Supply:	24 V DC	**Processor:**	Intel Atom E3815	**Protection Rating:**	IP20
Storage Slots:	1 x CFast, 1 x MicroSD	**Ups Data Buffer:**	1 MB on CFast	**Usb:**	4 x USB 2.0, 500 mA
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