Beckhoff — CX Embedded PC Systems

CX5120-0135



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The **CX5120-0135** embedded PC is produced by Beckhoff as a member of the CX Embedded PC Systems series. This DIN-rail-mounted unit combines an Intel Atom processor, fieldbus interfaces, and an onboard I/O power supply, allowing it to serve as the central controller in modular machine cells, HVAC air-handling systems, or packaging lines. By hosting Beckhoff's real-time automation software, it coordinates motion, logic, and HMI tasks while sitting directly next to E-bus or K-bus terminal stacks.

It is powered by an **Intel Atom E3815 processor operating at 1.46 GHz**, which provides single-core processing with low heat generation. System data and program code reside in **2 GB of DDR3 RAM**, providing a fixed working memory allocation for PLC cycles and visualization. Removable storage consists of a **CFast and microSD combination**, providing separate media for operating system images and user archives. The controller is supplied from a **24 V DC** rail, and its electronics consume up to **11 W**, permitting installation in compact cabinets without dedicated cooling. The **two RJ45 Gigabit Ethernet ports** operate at 10/100/1000 Mbit/s and support PLC networking, OPC UA traffic, or direct drive coupling through EtherCAT in pass-through mode.

Automation tasks execute under the **TwinCAT 3 Runtime (XAR)**, which supports IEC 61131-3 programming languages and motion libraries directly on the device. The **four front-mounted USB 2.0 Type-A ports** can power connected devices up to the integrated current limit of 500 mA per port while also supporting keyboards or removable storage devices. Internal isolation withstands a **500 V test voltage** between the supply and logic domains, and the I/O backplane receives 10 W for E-bus or K-bus terminals without an auxiliary feed module. A

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dedicated charging path allocates 18 W to an external UPS pack so that positional data can be written to nonvolatile memory during brownouts. Video output is provided by the integrated HD graphics engine, which operates at a base clock of 400 MHz and shares 256 MB of system memory for visualization panels.

Specifications

Control Software:	TwinCAT 3 Runtime (XAR)	**Cpu Cores:**	1	**Dielectric Strength:**	500 V
E-bus/k-bus Power:	10 W	**Flash Media:**	CFast + MicroSD	**Graphics Base Clock:**	400 MHz
Graphics Memory:	256 MB (Shared)	**Lan Interface:**	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM
Max Power Use:	11 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815 1.46 GHz
Ups Charge Power:	18 W	**Usb Interface:**	4 x USB 2.0, Type A	**Usb Port Current:**	500 mA
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Contact Us

1620 Old Apex Road, Cary, NC 27513, USA

Toll Free: 1-888-551-3082

International: 1-919-443-0207

Fax: 1-919-867-6204

Email: sales@wakeindustrial.com

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