Beckhoff — CX Embedded PC Systems

CX5140-0111



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The **CX5140-0111** is an embedded PC manufactured by Beckhoff and included in the CX Embedded PC Systems series. Acting as the central controller for conveyor lines, packaging cells, or building services, it combines PLC logic, motion control, and visualization in one housing. Its role in automation is to execute deterministic real-time tasks directly on the machine, eliminating the need for separate rack PCs or microcontrollers while remaining small enough for standard control cabinets.

Its quad-core architecture supplies the multithreading required for combined control and visualization workloads. It is driven by an **Intel Atom E3845** processor clocked at **1.91 GHz** and equipped with **4 GB DDR3 RAM** of main memory, so compiled PLC programs and HMI pages load without paging delays. A shared graphics buffer of**256 MB** supports local display output, while a CFast slot and microSD slot provide removable flash storage for recipe data or system backups. Two RJ45 connectors operate at 10/100/1000 Mbit/s to link machine and plant networks, and four USB 2.0 ports deliver 500 mA each for scanners or service dongles. Windows Embedded Compact 7 is preinstalled with the **TwinCAT 2 PLC Runtime**, allowing IEC 61131-3 programs to run immediately after startup.

The controller draws its logic supply from a **24 V DC** feed and withstands transients with a dielectric strength of 500 V between the supply and housing. Under typical loading, the device consumes**16 W**, rising to **23 W** when the integrated UPS is charging. The UPS bridges outages for one second so the system can save variables before shutdown. An **IP20**-rated enclosure protects against finger contact with internal components and the entry of solid objects larger than 12.5 mm, making the unit suitable for cabinet mounting in clean industrial areas. Screw

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terminals handle the DC supply and relay the UPS output to attached expansion modules without extra wiring.

Specifications

CPU Cores:	4	**Dielectric Strength:**	500 V	**Flash Storage:**	CFast Slot, MicroSD Slot
Graphics Memory:	256 MB (shared)	**Integrated Ups:**	1 s	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Power:**	16 W	**Max Power With Ups:**	23 W
Operating System:	Windows Embedded Compact 7	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3845, 1.91 GHz
Protection Rating:	IP20	**Twincat Runtime:**	TwinCAT 2 PLC Runtime	**Usb:**	4 x USB 2.0, 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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