Beckhoff — CX Embedded PC Systems

CX5140-0150



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The **CX5140-0150** embedded PC is produced by Beckhoff within the CX Embedded PC Systems series. The compact control platform mounts on a DIN rail inside an industrial control cabinet. It executes automation tasks such as machine sequencing, process data handling, visualization, and fieldbus communication. Its integrated design combines processing, networking, and peripheral connections without requiring a separate desktop computer.

Central processing power comes from an **Intel Atom E3845 1.91 GHz** processor. Its quad-core architecture provides **4 CPU cores**, allowing control logic and user programs to run simultaneously. The controller includes **4 GB of DDR3 RAM**, providing memory for real-time variables, application data, and file buffering. Two independent Gigabit Ethernet ports are available through **2 RJ45 ports supporting 10/100/1000 Mbit/s**, enabling separate control networks or ring topologies. Local peripherals such as service keyboards, barcode readers, and removable storage devices connect through **4 USB 2.0 Type A ports**.

Graphics tasks use **256 MB of shared graphics memory**, which supports basic visualization without a discrete graphics processor. The embedded PC operates from a **24 V DC** control-cabinet supply and draws up to **16 W** under full load, helping limit heat generation. Electrical isolation between the logic section and field level has a dielectric strength of **500 V**. Power contacts in the terminal segment carry up to 10 A, while a dedicated 2 A rail supplies the I/O electronics. An internal capacitor bank provides one second of uninterruptible power backup during brief voltage interruptions. The housing measures 142 × 100 × 92 mm and weighs 1,095 g, providing a compact footprint while maintaining stable DIN-rail mounting. The device is supplied without the TwinCAT runtime, allowing installation of

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the runtime version suited to the intended control application.

Specifications

Cpu Cores:	4	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Ethernet:	2 x RJ45, 10/100/1000 Mbit/s	**Graphics Memory:**	256 MB Shared Memory	**I/o Terminal Power:**	2 A
Main Memory:	4 GB DDR3 RAM	**Max Power Consumption:**	16 W	**Power Contacts Load:**	10 A
Power Supply:	24 V DC	**Processor:**	Intel Atom E3845 1.91 GHz	**Twincat Runtime:**	No TwinCAT
Ups Backup Time:	1 Second	**Usb:**	4 x USB 2.0, Type A	**Weight:**	1095 g
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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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