Beckhoff — CX Embedded PC Systems

CX5140-0112



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The **CX5140-0112** is an embedded PC manufactured by Beckhoff as part of the CX Embedded PC Systems series. Intended for industrial automation, this unit functions as a central controller that executes PLC programs, visualization, and motion tasks directly on a DIN rail. Integrated fieldbus connections allow immediate coupling with EtherCAT or traditional K-bus terminals, giving machine builders a scalable computing platform without a separate industrial PC.

Processing capacity comes from an **Intel Atom E3845** processor that provides four physical cores running at **1.91 GHz**, so multitasking workloads such as cyclic control and data logging can share the CPU without latency spikes. The controller is fitted with **4 GB DDR3 RAM**, supplying sufficient volatile storage for the TwinCAT runtime, recipe buffers, and user variables. Two independent Gigabit Ethernet adapters presented on **two RJ45 ports** support segmented machine networks or redundant uplinks to supervisory systems. Peripheral expansion is handled through **four USB 2.0 sockets** rated at 500 mA each, which accept service drives, barcode readers, or wireless network adapters. A DVI-I connector drives local HMI panels, while 256 MB of shared graphics memory renders process screens. A 5 V rail integrated into the base unit delivers 10 W at up to 2 A for E-bus or K-bus terminal stacks.

The total thermal load of the system is **16 W** during typical operation and rises to **23 W** when the plug-in UPS module is installed, so cabinet ventilation must account for both figures. All electronics are powered from a single **24 V DC** supply that tolerates excursions from -15% to +20%, allowing connection to standard control-panel power buses. The housing carries an **IP20** rating, indicating finger protection and suitability for clean electrical enclosures

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without added gasketing. The housing measures 142 × 100 × 92 mm, and its 92 mm depth leaves clearance for wiring inside shallow cabinets. With a dielectric strength of 500 V between the supply and ground, the PC withstands typical industrial transients encountered on 24-volt rails.

Specifications

Core Count:	4	**Cpu Clock:**	1.91 GHz	**Cpu Cores:**	4
Depth:	92 mm	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Display Interface:	DVI-I	**E-bus/k-bus Power:**	10 W (5 V/max. 2 A)	**Graphics Memory:**	256 MB (shared memory)
Height:	100 mm	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s	**Lan Ports:**	2 x RJ45
Main Memory:	4 GB DDR3-RAM	**Max Power Consumption:**	16 W	**Max Power With Ups:**	23 W
Power Supply:	24 V DC (-15%/+20%)	**Processor:**	Intel Atom E3845	**Protection Rating:**	IP20
Supply Voltage:	24 V DC	**Usb:**	4 x USB 2.0, 500 mA, Type A	**Usb Ports:**	4 x USB 2.0
Width:	142 mm	**Last Verified:**	11/18/2026 11:22 PM		

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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