Beckhoff — CX Embedded PC Systems

CX2030-0112



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The **CX2030-0112** is a DIN-rail-mounted embedded PC produced by Beckhoff for the CX Embedded PC Systems series. It combines control logic, motion sequencing, and HMI execution in one fanless module, allowing TwinCAT automation software to run alongside standard Windows services without separate industrial PCs. The housing connects to a modular backplane, allowing the controller to sit next to bus couplers, power supplies, and I/O slices inside compact control panels.

Processing is handled by an integrated **Intel Core i7 2610UE** processor that operates at **1.5 GHz**; this low-voltage CPU supports deterministic multitasking while keeping the thermal load moderate. Its **2 GB DDR3 RAM** holds the real-time operating system, user programs, and cached field data, while 128 kB of nonvolatile NovRAM protects retained variables during shutdowns. The unit has **two RJ45 ports with 10/100/1000 Mbit/s Ethernet**, supporting separate machine and plant networks or ring topologies. It also provides **four USB 2.0 Type A connectors** on the front for flash media, keyboards, and compatible camera interfaces. Graphics are rendered by the integrated Intel HD Graphics 3000 engine, which uses 128 MB of shared system memory to support panel displays or external monitors for local visualization.

Total power consumption peaks at **27 W**, allowing the unit to draw power directly from a control cabinet's 24-volt rail. The nominal input is **24 V DC** and includes reverse-polarity protection. Internal insulation withstands up to **500 V** of dielectric stress between isolated circuits, while the electronics are housed in an **IP20** enclosure intended for dry indoor locations. The dual-core architecture executes two synchronous threads, aligning PLC logic with

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auxiliary Windows services without oversubscription. The housing measures 144 × 99 × 91 mm, allowing installation beside terminal blocks on shallow DIN rails. Fanless operation reduces moving components and allows heat to dissipate through the housing during normal control tasks. NovRAM retains process counters and other selected data if control power is interrupted unexpectedly.

Specifications

Clock Frequency:	1.5 GHz	**Core Count:**	2	**Dielectric Strength:**	500 V
Dimensions:	144 x 99 x 91 mm	**Graphics:**	Intel HD Graphics 3000	**Graphics Memory:**	128 MB Shared Memory
Lan Interface:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3-RAM	**Max Power Consumption:**	27 W
Novram:	128 kB	**Processor:**	Intel Core i7 2610UE	**Protection Rating:**	IP20
Supply Voltage:	24 V DC	**Usb Interface:**	4 x USB 2.0 Type A	**Last Verified:**	11/19/2026 8:20 AM

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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