Beckhoff — CX Embedded PC Systems

CX2030-0121



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The **CX2030-0121** is a DIN-rail-mountable embedded PC from Beckhoff, positioned in the CX Embedded PC Systems series. Designed to run TwinCAT control software directly at the machine level, the unit consolidates PLC logic, motion control, and HMI tasks inside a compact industrial housing. By combining an Intel architecture processor with onboard I/O and fieldbus interfaces, it allows decentralized machinery to execute deterministic automation routines without a separate control cabinet computer.

Computational performance is delivered by an Intel Core i7-2610UE that runs at **1.5 GHz**; this base frequency establishes the processor's nominal operating rate for real-time tasks. The processor has **2** physical cores, allowing motion calculations and visualization tasks to run in parallel. System memory is populated with **2 GB DDR3 RAM**, giving the operating system adequate space for code, variables, and field data buffers. Program and system images reside on a CFast module with a minimum capacity of **40 GB**, which provides wear-leveled solid-state storage that resists vibration. Integrated Intel HD Graphics 3000 supports user interfaces with a boost clock of up to **850 MHz**, enabling fluid updates on connected DVI or DisplayPort panels while sharing 128 MB of system memory.

Electrical integration uses a stabilized supply of **24 V DC (-15%/+20%)**, eliminating the need for mains power inside the machine enclosure. Under full CPU and I/O load, the controller draws up to **27 W**, supporting passive convection cooling and simplifying cabinet thermal calculations. A cast-aluminum enclosure measuring **144 × 99 × 91 mm** leaves room on the rail for additional EtherCAT terminals while meeting typical depth restrictions in shallow panels. Internal insulation withstands test potentials of **500 V**, providing electrical isolation when neighboring

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actuators introduce transients into the grounding system.

Specifications

Cfast Min Capacity:	40 GB	**Cpu Clock:**	1.5 GHz	**Cpu Cores:**	2
Dielectric Strength:	500 V	**Dimensions (W x H x D):**	144 x 99 x 91 mm	**Graphics Base Clock:**	350 MHz
Graphics Max Clock:	850 MHz	**Graphics Memory:**	128 MB (Shared Memory)	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	27 W	**Novram:**	128 kB	**Power Supply:**	24 V DC (-15%/+20%)
Processor:	Intel Core i7 2610UE	**Processor Graphics:**	Intel HD Graphics 3000	**Last Verified:**	11/17/2026 9:32 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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