Beckhoff — CX Embedded PC Systems

CX2030-0111



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The **CX2030-0111** is an embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. It acts as the central control element in distributed automation. The module runs user logic and motion tasks through the preinstalled TwinCAT 2 PLC Runtime while interfacing directly with EtherCAT or other fieldbus I/O terminals.

This unit employs an **Intel Core i7-2610UE** dual-core processor clocked at **1.5 GHz**; the two physical cores allow deterministic multitasking among HMI, PLC, and communication processes. System responsiveness is supported by **2 GB DDR3 RAM**, which provides space for variables, visualization data, and real-time logs. Integrated Intel HD Graphics 3000 drives the DVI-I interface at resolutions up to **1920 × 1200**, enabling a local display connection without an external graphics card. Local nonvolatile storage for cyclic data is handled by NOVRAM, while program and operating code remain in solid-state flash storage. Power consumption stays below **27 W**, so the fanless aluminum housing can dissipate heat by convection inside standard control cabinets.

A regulated input of **24 V DC** powers the logic section, and the internal circuitry has a dielectric strength of **500 V** for protection against transient line spikes. The assembly carries an **IP20** rating for use in protected cabinet environments and measures 144 × 99 × 91 mm to conserve DIN-rail space. Persistent process counters remain available after power interruptions through a dedicated **128 kB** NOVRAM segment. External connectivity includes two Gigabit Ethernet ports with RJ45 connectors, four USB 2.0 ports that can each supply 500 mA, and a DVI-I socket for local visualization. The Ethernet interfaces incorporate magnetic isolation, while the printed circuit board maintains appropriate creepage distances between internal circuits. These clearances help separate the low-voltage

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controller electronics from higher-voltage wiring installed nearby in the cabinet.

Specifications

Control Software:	TwinCAT 2 PLC Runtime	**Core Count:**	2	**Cpu Clock:**	1.5 GHz
Dielectric Strength:	500 V	**Dimensions (W x H x D):**	144 x 99 x 91 mm	**Graphics:**	Intel HD Graphics 3000
Lan Ports:	2 x RJ45, 10/100/1000 Mbit/s	**Main Memory:**	2 GB DDR3 RAM	**Max Dvi-i Resolution:**	1920 x 1200
Max Power Consumption:	27 W	**Novram:**	128 kB	**Processor:**	Intel Core i7-2610UE
Protection Rating:	IP20	**Supply Voltage:**	24 V DC	**Usb Ports:**	4 x USB 2.0, 500 mA each
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