Beckhoff — CX Embedded PC Systems

CX2030-0100



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The **CX2030-0100** embedded PC is produced by Beckhoff within the CX Embedded PC Systems series. It combines an Intel Core i7 2610UE processor, system memory, and onboard graphics in a 144 mm-wide housing that mounts on a DIN rail. This configuration allows it to serve as the programmable logic and motion controller inside distributed industrial automation panels. Because no operating system or TwinCAT runtime is factory-installed, machine builders can load the control software needed for PLC, CNC, or HMI tasks.

The Intel Core i7 operates at **1.5 GHz**, providing the processing performance needed for deterministic control cycles. Application data reside in **2 GB of DDR3 RAM** within a soldered memory bank that avoids shock-related disconnections. Power is supplied at **24 V DC**, and the hardware draws up to **27 W** under maximum computational and graphics loads. Display output is provided by the integrated **Intel HD Graphics 3000**, which accesses 128 MB of dedicated video memory for local operator panels. The graphics processor shares the same chip package as the CPU to conserve board space. It can also accelerate vector-based visualization without requiring an additional GPU card.

Two execution threads are available from the processor's **2 cores**, allowing separate PLC tasks to run in parallel with fieldbus handling. Nonvolatile retention of setpoints and counters is handled by **128 kB of NOVRAM**, eliminating the need for battery-backed SRAM. The graphics subsystem reaches a peak frequency of **850 MHz**, which helps determine enclosure airflow requirements when high-resolution displays operate continuously. Signal isolation withstands up to **500 V** of dielectric stress between the supply and logic domains, protecting the board

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when inductive loads collapse. The housing has a height of 99 mm and a depth of 91 mm, allowing the controller to fit in shallow cabinets while preserving the electrical clearances required for safe operation.

Specifications

Clock Speed:	1.5 GHz	**Cpu Cores:**	2	**Depth:**	91 mm
Dielectric Strength:	500 V	**Graphics:**	Intel HD Graphics 3000	**Graphics Memory:**	128 MB
Height:	99 mm	**Main Memory:**	2 GB DDR3-RAM	**Max Graphics Clock:**	850 MHz
Max Power Use:	27 W	**Novram:**	128 kB	**Operating System:**	None
Processor:	Intel Core i7 2610UE	**Supply Voltage:**	24 V DC	**Twincat:**	None
Width:	144 mm	**Last Verified:**	11/19/2026 1:07 PM		

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