Beckhoff — CX Embedded PC Systems

CX2030-0142



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The **CX2030-0142** is an embedded PC module manufactured by Beckhoff for the CX Embedded PC Systems series. It functions as a compact control platform that mounts on a DIN rail and supports deterministic PLC execution, motion coordination, and visualization within industrial automation cells. Its modular format allows it to operate as the central controller in machines that have limited cabinet space. The platform can manage logic, user-interface, and motion-control tasks without requiring a conventional desktop computer.

The processor operates at **1.5 GHz** and is an **Intel Core i7 2610UE** model. It has **two hardware cores**, allowing real-time control and background processes to run simultaneously. The main memory consists of**2 GB of DDR3 RAM**, providing space for program code, variable tables, and operating system services. Plant network communication is supported by **two RJ45 Gigabit LAN interfaces**. Field and service peripherals can connect through **four USB 2.0 ports**, which provide data connectivity and 5 V power for compatible low-current devices. Graphics output uses 128 MB of shared memory, while a 128 kB NOVRAM block retains nonvolatile process data. The preinstalled TwinCAT 2 NC-PTP runtime supports axis positioning and camming without additional motion-control cards.

The module consumes up to **27 W**, making it suitable for cabinets with limited thermal capacity. It operates from a stabilized **24 V DC supply**, which is commonly used for industrial control equipment. Internal insulation withstands up to **500 V** of dielectric stress between isolated circuits, improving separation when multiple voltage domains share an enclosure. The housing is 144 mm wide, 99 mm high, and 91 mm deep, allowing high-density installation

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on standard mounting profiles. Its DIN-rail format supports orderly placement beside power supplies, I/O terminals, and communication modules. The low power requirement reduces the heat that must be removed from compact control cabinets, while the dedicated motion runtime allows the controller to handle coordinated machine functions locally.

Specifications

Cpu Clock:	1.5 GHz	**Cpu Cores:**	2	**Depth:**	91 mm
Dielectric Strength:	500 V	**Graphics Memory:**	128 MB (Shared Memory)	**Height:**	99 mm
Lan Ports:	2 x RJ45	**Main Memory:**	2 GB DDR3-RAM	**Max Power Consumption:**	27 W
Novram:	128 kB	**Power Supply:**	24 V DC	**Processor Model:**	Intel Core i7 2610UE
Twincat Runtime:	TwinCAT 2 NC-PTP Runtime	**Usb Ports:**	4 x USB 2.0	**Width:**	144 mm
Last Verified:	11/19/2026 11:19 PM				

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