Beckhoff — CX Embedded PC Systems

CX2030-0120



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The **CX2030-0120** is an embedded PC module manufactured by Beckhoff for the CX Embedded PC Systems series. Designed as a compact controller, it combines a CPU, memory, and communication ports in a DIN-rail format to run PLC, motion, and HMI tasks in automated machines. By mounting directly inside a control cabinet, this unit eliminates the need for a separate industrial PC while still providing deterministic processing for EtherCAT or fieldbus-based I/O. This capability suits midsized packaging lines, conveyor cells, and building management installations.

The computing core runs at **1.5 GHz** with **two processor cores**, so control loops and visualization tasks can execute concurrently without external processors. System memory includes **2 GB of DDR3 RAM**, providing capacity for medium-sized PLC projects and in-memory databases. The integrated Intel HD Graphics 3000 uses **128 MB of shared video RAM** for local display panels. Nonvolatile state data is secured in a 128 kB NOVRAM segment that retains information during a sudden power loss. Electrical isolation between internal circuits and field wiring is verified up to a dielectric strength of 500 V. When fully loaded, the platform draws only **27 W**, permitting passive cabinet cooling.

The controller is powered through a stabilized **24 V DC** rail that tolerates a variance of -15% to +20%, supplying the embedded **Intel Core i7 2610UE processor** and all peripheral buses. Two Gigabit Ethernet ports with RJ45 connectors provide 10/100/1000 Mbit/s LAN access for EtherCAT, OPC UA, or plant networks. Four USB 2.0 interfaces deliver 500 mA each for touch screens, service drives, or WLAN adapters. The aluminum housing measures **144 ×**

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99 × 91 mm, allowing installation in densely arranged control cabinets. The assembly weighs **1165 g**, so the load placed on the DIN rail remains low even when vibration is present.

Specifications

Cpu Clock:	1.5 GHz	**Cpu Cores:**	2	**Dielectric Strength:**	500 V
Dimensions:	144 x 99 x 91 mm	**Graphic Memory:**	128 MB (Shared)	**Graphics:**	Intel HD Graphics 3000
Lan:	2 x RJ45, 10/100/1000 Mbit/s	**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
Twincat:	None	**Usb:**	4 x USB 2.0, 500 mA each	**Weight:**	1165 g
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