Beckhoff — CX Embedded PC Systems

CX2030-0141



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The **CX2030-0141** is an embedded PC from Beckhoff that belongs to the CX Embedded PC Systems series and is intended for use as the central controller in industrial automation cells. By combining PC architecture with PLC capability, the device supports deterministic machine control, local visualization, and fieldbus communication without requiring a separate rack-mounted computer. The unit runs the **TwinCAT 2 PLC Runtime**, so IEC 61131-3 tasks can execute directly on its Intel Core i7 2610UE processor.

This processor offers **dual-core computing** at **1.5 GHz**, enabling parallel logic execution and HMI handling. Application code is buffered by 128 kB of NOVRAM for power-failure retention, while dynamic data resides in **2 GB of DDR3 RAM**. Four PCI-based Mini PCIe sockets support local expansion, and removable mass storage can be added through CFast. External peripherals connect through **four USB 2.0 ports** that each supply up to 500 mA, allowing barcode scanners, USB flash drives, or service keyboards to be attached without an extra hub. Integrated Intel HD Graphics 3000 drives a DVI-I connector for panel displays.

Power is supplied at **24 V DC**, and the system draws up to **27 W** under full load, so a standard control-cabinet supply can power the device. The housing carries an **IP20** rating; therefore, the PC must be mounted inside a protected enclosure but needs no additional sealing. Two Gigabit Ethernet interfaces use **two RJ45 connectors** for real-time EtherCAT or conventional TCP/IP networking. A dielectric strength of 500 V protects internal circuits against control-cabinet transients. Local terminal modules attach through the K-bus, with 2,048 bytes of input process data and 2,048 bytes of output process data, enabling high-density digital and analog I/O. The fanless

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aluminum chassis measures 144 × 99 × 91 mm, so it occupies minimal DIN-rail space in decentralized machines.

Specifications

Control Software:	TwinCAT 2 PLC Runtime	**Cpu Cores:**	Dual-Core	**Cpu Frequency:**	1.5 GHz
Dielectric Strength:	500 V	**Dimensions (W x H x D):**	144 x 99 x 91 mm	**K-bus Process Data:**	2048 B In / 2048 B Out
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	**Processor:**	Intel Core i7 2610UE
Processor Graphics:	Intel HD Graphics 3000	**Protection Class:**	IP20	**Usb:**	4 x USB 2.0, 500 mA Each
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