Beckhoff — CX Embedded PC Systems

CX2030-0110



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The **CX2030-0110** is an embedded PC produced by Beckhoff for the CX Embedded PC Systems series. Intended for DIN-rail installation in machine controllers and building automation panels, it combines an Intel Core i7-2610UE processor with industrial I/O interfaces. The controller can execute PLC logic, visualization applications, and fieldbus communication within a compact enclosure. Its modular design allows it to connect directly to compatible automation terminals without requiring a separate desktop computer.

The dual-core CPU operates at **1.5 GHz**, providing consistent cycle times for TwinCAT runtime tasks. The onboard **2 GB of DDR3 RAM** stores executable code and active runtime data. Two Ethernet sockets configured as **2 x RJ45 ports** support network connections, and each port offers data rates of **10/100/1000 Mbit/s** for real-time automation or standard TCP/IP traffic. Peak power consumption remains below **27 W**, helping limit the heat released into the control cabinet. A 128 kB NovRAM preserves counters, recipes, and other retained data during shutdowns. Intel HD Graphics 3000 provides local display support with 128 MB of shared video memory, while native processor virtualization helps separate control functions from Windows services. A dielectric strength of 500 V provides electrical isolation for the internal circuits.

The enclosure provides **four USB 2.0 Type A ports** for removable media, input devices, and other compatible peripherals. Power is supplied through a regulated **24 V DC input**, and internal capacitors help the controller tolerate brief voltage dips. The housing measures **144 × 99 × 91 mm**, allowing installation in shallow control cabinets where rail space is limited. Its **IP20 protection class** protects against accidental contact with internal

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components and solid objects larger than the permitted opening size. The integrated processor, memory, networking, graphics, and nonvolatile storage support control and visualization tasks without requiring separate computing hardware.

Specifications

Core Count:	2	**Cpu Clock:**	1.5 GHz	**Dielectric Strength:**	500 V
Dimensions (W x H x D):	144 x 99 x 91 mm	**Ethernet Ports:**	2 x RJ45	**Ethernet Speed:**	10/100/1000 MBit/s
Graphics:	Intel HD Graphics 3000	**Graphics Memory:**	128 MB (Shared Memory)	**Main Memory:**	2 GB DDR3-RAM
Max Power Consumption:	27 W	**Novram:**	128 kB	**Power Supply:**	24 V DC
Processor:	Intel Core i7-2610UE	**Protection Class:**	IP20	**Usb Ports:**	4 x USB 2.0 Type A
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