Beckhoff — CX Embedded PC Systems

CX5020-0111



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The **CX5020-0111** is an embedded PC manufactured by Beckhoff and supplied as part of the CX Embedded PC Systems series. In a machine cabinet, it serves as the central controller, combining PLC logic, fieldbus communication, and user interface support in one DIN-rail form factor. When paired with Beckhoff I/O terminals, it executes motion, process, or building automation tasks directly on the production line.

An **Intel Atom Z530, 1.6 GHz processor** handles real-time control, while **512 MB of RAM** provides active data space for variables, buffering, and visualization. The device runs **Windows Embedded CE 6**, providing a compact operating system for deterministic TwinCAT tasks. Two Gigabit Ethernet ports use **2 × RJ-45 connectors** for high-speed EtherNet/IP, Modbus TCP, or OPC traffic, and field peripherals can be attached through **4 × USB 2.0 sockets**. The TwinCAT 2 PLC runtime is preinstalled to compile and execute IEC 61131-3 programs without external servers. Electrical insulation between the power supply and logic provides a dielectric strength of 500 Veff, and the I/O segment can deliver 2 A of sensor or actuator current through the integrated power distribution system. The IP20 protection rating is suitable for standard control enclosures, while the E-bus terminal backplane supports direct connection to digital and analog terminals.

Power is supplied at **24 V DC**, and the unit dissipates only **12.5 W** under maximum computational and communication load, reducing heat accumulation inside the cabinet. The **100 × 106 × 92 mm housing** fits beside drives and relays without requiring a deep panel, while program code and archives are stored on a **128 MB CompactFlash card**. A DVI-D video output connects local human-machine interfaces, allowing operators to view

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process information and interact with machine controls near the installation. The compact DIN-rail format also leaves space for neighboring I/O terminals, power supplies, and communication modules within densely arranged automation panels.

Specifications

Control Software:	TwinCAT 2 PLC Runtime	**Dielectric Strength:**	500 Veff	**Dimensions (h X W X D):**	100 x 106 x 92 mm
Ethernet Interfaces:	2 x RJ-45, 10/100/1000 Mbit/s	**I/o Supply Current:**	2 A	**Internal Flash Memory:**	128 MB Compact Flash Card
Main Memory:	512 MB RAM	**Max Power Loss:**	12.5 W	**Operating System:**	Windows Embedded CE 6
Power Supply:	24 V DC	**Processor:**	Intel Atom Z530, 1.6 GHz	**Protection Class:**	IP 20
Terminal Bus:	E-Bus	**USB Ports:**	4 x USB 2.0	**Video Output:**	DVI-D
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