



Beckhoff — CX Embedded PC Systems

CX7000



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The **CX7000** is an embedded PC controller manufactured by Beckhoff within the CX Embedded PC Systems series. Designed to run TwinCAT PLC and motion software, it combines computing, fieldbus interfacing, and I/O terminals in a compact DIN-rail unit. In an automation cell, the device executes control logic, communicates with supervisory systems, and directly controls compact machines that do not require a full Windows-based industrial PC.

At its core, the controller uses an Arm Cortex-M7 processor clocked at **480 MHz**; this frequency supports short task cycle times and deterministic responses for simple motion axes and high-speed counting. A single processing core works with **32 MB** of SDR main memory, providing space for PLC variables and real-time kernel code while keeping heat dissipation low. The integrated Ethernet port supports **10/100 Mbit/s** communication, so the unit can connect to compatible industrial networks without requiring an additional network interface. Dimensions of **49 x 100 x 73 mm** permit installation in shallow control cabinets, and the plastic housing attaches directly to adjacent Beckhoff I/O slices. System power is supplied at **24 VDC**, enabling the CX7000 to share a common low-voltage rail with sensors, valves, and safety relays. Eight multifunction inputs, four transistor outputs, and a 0.5 A field supply line complete the built-in signal layer.

The onboard slot accepts a microSD card with a capacity of up to **512 MB**, providing removable storage for recipe data and system files without increasing the unit's footprint. Nonvolatile process values are additionally secured by a 4 kB NOVRAM block that retains data through power cycles. The housing carries an **IP20** rating, so the device must be mounted in a closed panel but does not require additional gasketing. The unit has a mass of only **142 g**,

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which places little load on the DIN rail and adjacent mounting hardware. Its analog input converter provides a **12-bit resolution** for precise voltage or current acquisition in space-constrained machines.

Specifications

Analog Resolution:	12-bit	Control Software:	TwinCAT 3 runtime (XAR)	Cooling:	Passive
Core Count:	1	CPU Cores:	1	Dimensions:	49 mm x 100 mm x 73 mm
Dimensions (w X H X D):	49 x 100 x 73 mm	EMC Standards:	EN 61000-6-2, EN 61000-6-4	Ethernet Speed:	10/100 Mbit/s
Flash Memory:	512 MB flash via microSD slot (expandable)	Inputs:	8 multi-function (24 V DC)	Interfaces:	1x RJ45 10/100 Mbit/s, 1x USB
Main Memory:	32 MB SDR	Microsd Capacity:	512 MB	Multifunction Inputs:	8
Multifunction Outputs:	4	Novram:	4 kB	Operating Temperature:	-25 to +60 °C
Output Current:	0.5 A	Outputs:	4 multi-function (24 V DC, 0.5 A, 1-wire)	Power Supply:	24 VDC
Processor:	Arm Cortex-M7, 480 MHz	Protection Rating:	IP20	RAM:	32 MB SDRAM (non-expandable)
Usb Current:	100 mA	Usb Speed:	12 Mbit/s	Warranty:	1 year
Weight:	142 g	Last Verified:	10/25/2026 10:53 AM		

Contact Us

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