Beckhoff — CX Embedded PC Systems

CX8080



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The **CX8080** is an embedded PC manufactured by Beckhoff and supplied within the CX Embedded PC Systems series. It serves as a compact PLC and communication gateway for industrial automation projects. The controller combines local I/O, real-time logic, and fieldbus networking in a 64 × 100 × 73 mm housing that mounts alongside standard terminal blocks.

An Arm9 processor clocked at **400 MHz** handles control tasks, while the unit's **64 MB of RAM** provides volatile workspace for the real-time operating system and application code. Program and data retention is supported by a **512 MB microSD card** that plugs into an internal slot. The controller accepts a nominal supply of **24 VDC** and draws no more than **3 W**, minimizing cabinet heat and allowing simple 24 V power distribution. Internal circuitry withstands a 500 V dielectric test between the supply and protective earth. A 2 A I/O terminal supply is routed through the base unit, so field modules receive power without separate wiring. The main board includes a UPS capacitor that maintains logic for one second, allowing variables to be saved when input power is interrupted. The enclosure has an IP20 rating for use in typical dry control panels.

Network and expansion ports are grouped on the front edge. A **single RJ45 10/100 Mbit/s Ethernet port** links the PLC to SCADA systems or higher-level controllers, and a **K-bus or E-bus interface** lets the base connect directly to Beckhoff digital or analog terminals without adapters. Serial communication is available through a D-sub connector that can operate in **RS232 or RS485 mode**, while a single USB device port supports service uploads. The programming environment follows the **IEC 61131-3 standard**, allowing ladder logic, structured text, and function

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block diagrams to be downloaded from TwinCAT software. These interfaces allow the controller to exchange process data with local terminals, supervisory systems, and other industrial devices. The front-facing arrangement also keeps network, serial, and service connections accessible after the controller is installed beside its I/O terminals.

Specifications

Cpu Clock:	400 MHz	**Dielectric Strength:**	500 V	**Dimensions (W x H x D):**	64 x 100 x 73 mm
Ethernet Port:	1 x RJ45, 10/100 Mbit/s	**Flash Memory:**	512 MB microSD	**I/o Terminal Interface:**	K-bus Or E-bus
I/o Terminal Supply:	2 A	**Main Memory:**	64 MB RAM	**Max Power Consumption:**	3 W
Nominal Supply Voltage:	24 VDC	**Processor:**	Arm9	**Programming Language:**	IEC 61131-3
Protection Rating:	IP20	**Serial Port:**	1 x D-sub (RS232/RS485)	**Ups Buffer Time:**	1 s
Usb Port:	1 x USB Device	**Last Verified:**	11/19/2026 8:02 PM		

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