Beckhoff — CX Embedded PC Systems

CX8180



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The **CX8180** is an embedded PC manufactured by Beckhoff within the CX Embedded PC Systems series. Designed as a DIN-rail automation controller, it combines PLC logic, networking, and I/O power distribution in a single compact module for machine and building control tasks. It integrates directly with EtherCAT terminals and fieldbus modules, enabling deterministic execution of real-time tasks while maintaining Ethernet connectivity to supervisory SCADA or MES platforms.

The unit runs on a single-core Arm Cortex-A9 processor clocked at **800 MHz**, balancing deterministic cycle times with low heat output. System memory consists of **512 MB DDR3 RAM**, while user programs and log files reside on a 512 MB microSD card. Network traffic is handled by a Fast Ethernet controller supporting **10/100 Mbit/s** transfer rates, and legacy devices connect through one RS-232 port and one RS-485 port. Digital and analog terminal backplanes draw up to 2 A from the integrated I/O supply, and the controller has a maximum power demand of **4 W**. All circuitry is powered by a **24 V DC** input, and a capacitor-based uninterruptible power supply provides one second of backup power while storing 1 MB of persistent data to prevent loss during brief outages.

The housing measures **71 × 100 × 73 mm** and weighs **230 g**, so it occupies minimal rail space and imposes little load on the mounting hardware. Its **IP20** protection class requires installation in a closed enclosure, while spring contacts permit tool-free wiring and can carry up to 10 A on the power feed. Isolation between the logic section and field wiring is rated at **500 V**, and the terminal rows support field power distribution without arcing. During operation, passive convection through the plastic housing helps keep the Arm processor thermally stable without

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requiring a fan.

Specifications

Dielectric Strength:	500 V	**Dimensions (W x H x D):**	71 x 100 x 73 mm	**Ethernet Speed:**	10/100 Mbit/s
Flash Memory:	512 MB microSD	**I/o Supply Current:**	2 A max.	**Main Memory:**	512 MB DDR3-RAM
Max Power Consumption:	4 W	**Number Of Cores:**	1	**Power Contacts Load:**	10 A max.
Power Supply:	24 V DC	**Processor:**	Arm Cortex-A9, 800 MHz	**Protection Rating:**	IP20
Serial Ports:	1 x RS232, 1 x RS485	**Ups Backup Time:**	1 s	**Ups Storage:**	1 MB
Weight:	230 g	**Last Verified:**	11/19/2026 4:31 PM		

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