Beckhoff — CX Embedded PC Systems

CX8093



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The **CX8093** is an embedded PC produced by Beckhoff within the CX Embedded PC Systems series. Designed for DIN-rail mounting, the module combines PLC logic, fieldbus communication, and low-level I/O preprocessing in a single housing. It serves as the primary controller in compact machines, forwarding process data to higher-level networks while executing IEC 61131-3 user programs locally. By pairing deterministic control with integrated networking, the device simplifies panel layouts and reduces the number of discrete components required for industrial automation.

The controller operates at a clock frequency of **400 MHz**, generated by an **ARM9 processor** that delivers consistent scan times for typical motion or process tasks. Main memory totals **64 MB of RAM**, providing working space for the operating system, control program, and active process data. Removable storage is supplied by a **512 MB microSD card** for recipe files, program data, and trend archives. A built-in **PROFINET RT Device interface** permits the real-time exchange of cyclic telegrams with supervisory PLCs. Even with the communication stack active, the maximum power draw remains **3 W**, helping limit heat accumulation inside the control cabinet. Application logic can be written in IEC 61131-3 languages for local execution by the controller.

Power is supplied at **24 VDC** through spring terminals, and an integrated uninterruptible power supply maintains the CPU for one second during brownouts to preserve variables. The electrical insulation withstands test potentials of up to **500 V**, supporting control-panel safety checks. The housing measures 64 mm × 100 mm × 73 mm and weighs 180 g, so it can be mounted beside Beckhoff I/O slices without placing excessive strain on the DIN-rail clips.

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The enclosure has an **IP20 rating**, making installation inside a closed electrical cabinet necessary for protection from dust and moisture. A single USB Device port provides access for program downloads and data transfers.

Specifications

Clock Speed:	400 MHz	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	64 mm x 100 mm x 73 mm
Fieldbus Interface:	PROFINET RT Device (Slave)	**Flash memory:**	512 MB microSD	**Main Memory:**	64 MB RAM
Max power consumption:	3 W	**Power Supply:**	24 VDC	**Processor:**	Arm9
Programming Standard:	IEC 61131-3	**Protection Rating:**	IP20	**UPS backup:**	1-Second Integrated
USB port:	1 x USB Device	**Weight:**	180 g	**Last Verified:**	11/19/2026 3:02 PM

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