Beckhoff — CX Embedded PC Systems

CX5130-0143



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The **CX5130-0143** is an embedded PC supplied by Beckhoff within the CX Embedded PC Systems series. As a DIN-rail controller, it combines PC functionality with modular I/O to execute machine logic, motion, and visualization tasks directly in production environments. The unit supports TwinCAT automation software, allowing it to replace separate PLC and NC controllers while occupying minimal cabinet space.

Processing is handled by an **Intel Atom E3827 1.75 GHz** CPU with **2 cores**, and the board carries **4 GB DDR3 RAM** for program data, buffers, and operating system services. The preinstalled **TwinCAT 2 NC I Runtime** executes axis interpolation and PLC code in deterministic time slots. Power is supplied through a **24 V DC (-15%/+20%)** input. An internal circuit supports a one-second uninterruptible power supply that writes 1 MB of retained variables to the CFast card during a power interruption. Two Gigabit Ethernet ports support real-time EtherCAT communication or standard TCP/IP networks, while four USB 2.0 interfaces rated at 500 mA each accommodate service tools or fieldbus adapters. Removable storage is available through a CFast slot and an additional microSD slot, allowing the operating system, user data, and maintenance images to be stored separately. The motherboard withstands 500 V of dielectric stress between isolated groups.

Total power consumption reaches **14 W** during full CPU load and rises to 20 W while the uninterruptible power supply capacitor is charging. The aluminum housing measures **142 × 100 × 92 mm** and includes a passive heat sink for convection cooling inside control enclosures. An **IP20** protection rating suits cabinet installation in areas protected from dust and moisture, while the fanless design reduces maintenance requirements. The system has a

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mass of **1095 g**, allowing direct mounting on a standard 35 mm DIN rail without additional supports. Network connections use two RJ45 ports, and spring-cage terminals provide secure connections for field wiring. The compact housing keeps the processor, storage interfaces, network connections, and power input together within the control cabinet.

Specifications

Control Software:	TwinCAT 2 NC I Runtime	**Dielectric Strength:**	500 V	**Dimensions (w X H X D):**	142 x 100 x 92 mm
Flash Memory:	CFast Slot + MicroSD Slot	**Integrated Ups:**	1 s, 1 MB on CFast	**Lan:**	2 x RJ45, 10/100/1000 Mbit/s
Main Memory:	4 GB DDR3-RAM	**Max Power Consumption:**	14 W	**Max Power With Ups Charging:**	20 W
Number Of Cores:	2	**Power Supply:**	24 V DC (-15%/+20%)	**Processor:**	Intel Atom E3827 1.75 GHz
Protection Rating:	IP20	**Usb:**	4 x USB 2.0, 500 mA each	**Weight:**	1095 g
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