Beckhoff — CX Embedded PC Systems

CX5140-0161



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The **CX5140-0161** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. Designed as the central controller in compact machinery, it combines PLC logic, motion coordination, and visualization in a DIN-rail module that connects directly to slice I/O terminals and fieldbus couplers. This arrangement provides deterministic, PC-class control within industrial automation cells. The unit is intended for OEM equipment that needs PC-level computing without a separate industrial computer.

Processing capability comes from an **Intel Atom E3845** system-on-chip running at **1.91 GHz**. Its four cores allow the TwinCAT 2 PLC Runtime to execute logic, communication, and HMI tasks in parallel. A **4 GB DDR3 RAM** module stores variables and program code, while the 2,048-byte K-bus process image maps local digital or analog channels without adding cycle time. The internal bus can supply 2 A to terminal electronics, reducing the need for separate power feeds. The electronics accept a **24 V DC power supply** and draw up to **16 W**, allowing multiple controllers to share a compact power rail. An integrated one-second UPS maintains operation during short outages, helping prevent uncontrolled shutdowns and data loss.

The housing measures **142 × 100 × 92 mm** and has an **IP20 ingress protection rating**, making it suitable for installation in standard control cabinets. Network connectivity is provided by **two RJ45 ports supporting 10/100/1000 Mbit/s**, which accommodate segmented machine networks and uplinks to plant IT systems. Four USB 2.0 sockets supply 500 mA each for flash drives, wireless adapters, or operator panels. The power contacts can conduct up to **10 A**, allowing actuators to draw supply current through the same backplane connectors and

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reducing wiring density. The compact footprint leaves clearance for ventilation above and below the unit. Because the housing provides IP20 protection, the cabinet must prevent conductive dust and moisture from reaching the terminals.

Specifications

Control Software:	TwinCAT 2 PLC Runtime	**Cpu Clock:**	1.91 GHz	**Cpu Cores:**	4
Dimensions (w X H X D):	142 x 100 x 92 mm	**Ethernet Ports:**	2 x RJ45, 10/100/1000 Mbit/s	**I/o Terminal Supply:**	2 A
Integrated Ups:	1 s	**K-bus Process Data:**	2048 bytes in / 2048 bytes out	**Main Memory:**	4 GB DDR3-RAM
Max Power Consumption:	16 W	**Power Contacts Load:**	10 A	**Power Supply:**	24 V DC
Processor:	Intel Atom E3845	**Protection Rating:**	IP20	**Usb Ports:**	4 x USB 2.0, 500 mA each
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