Beckhoff — CX Embedded PC Systems

CX5020-0125



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The **CX5020-0125** is an embedded control computer produced by Beckhoff for the CX Embedded PC Systems series. It functions as a compact PLC and motion platform that mounts directly on a DIN rail alongside I/O terminals, eliminating the need for a separate industrial PC. In distributed automation cells, the device executes user programs, handles fieldbus traffic, and provides visualization interfaces for machine operators.

The operating system layer is delivered through **TwinCAT 3 XAR**, allowing IEC 61131-3 logic and NC functions to run in real time. Computing tasks are handled by an **Intel Atom Z530, 1.6 GHz** processor; this single-core CPU balances deterministic response with low heat generation. Application data reside in **512 MB of RAM**, providing space for motion tables, HMI objects, and recipe files. Thermal output is limited to **12.5 W**, so cabinet cooling requirements remain modest even under sustained load. Network traffic traverses two Gigabit links that negotiate at **10/100/1000 Mbit/s**, enabling simultaneous EtherCAT master communication and plant-level MES connectivity without an external switch.

The two Ethernet interfaces use **2 × Intel 82574L controllers** that support checksum offloading to reduce CPU overhead during high-volume frame transfers. The unit has **four USB 2.0 ports** for service tools, data-logging drives, or wireless adapters. Control electronics draw power from a **24 V DC supply**, and the internal I/O section can source up to 2 A for terminal electronics over the E-Bus backplane. Visual output is rendered by the Intel GMA 500 graphics core and transmitted through a **DVI-D connector**, allowing direct attachment of an operator touchscreen. The compact housing combines processing, field connectivity, and operator display support while

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retaining a DIN-rail format for modular machine installations.

Specifications

Control Runtime:	TwinCAT 3 XAR	**Ethernet Controllers:**	2 x Intel 82574L	**Ethernet Ports:**	2 x RJ45
Ethernet Speed:	10/100/1000 Mbit/s	**Graphics Core:**	Intel GMA 500	**I/o Supply Current:**	2 A
Main Memory:	512 MB RAM	**Max Power Loss:**	12.5 W	**Memory Type:**	DDR2 RAM
Power Supply:	24 V DC	**Processor:**	Intel Atom Z530, 1.6 GHz	**Terminal Bus:**	E-Bus
Usb Ports:	4 x USB 2.0	**Video Output:**	DVI-D	**Last Verified:**	11/20/2026 4:09 AM

Contact Us

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Shipping Options

Payment Methods

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