Beckhoff — CX Embedded PC Systems

CX5120-0161



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Beckhoff manufactures the **CX5120-0161** as a member of the CX Embedded PC Systems series. This DIN-rail-mounted embedded PC replaces separate PLC, motion controller, and operator interface hardware in compact machines, delivering deterministic control, fieldbus connectivity, and visualization from a single controller. It links directly to Beckhoff E-bus or K-bus I/O terminals, so the device becomes the central automation node for packaging, material-handling, and general machinery where cabinet space and energy efficiency are priorities.

Processing duties are handled by an **Intel Atom E3815** running at **1.46 GHz**. The architecture provides **a single core**, which simplifies task partitioning and meets the real-time cycle requirements of PLC logic. A system memory capacity of **2 GB DDR3 RAM** stores the TwinCAT operating system and user programs, while **256 MB** of separate graphics memory drives local HMI screens without sharing bus bandwidth. Up to 65,534 E-bus terminals can be chained to the controller, and an additional 64 K-bus terminals are supported when legacy modules must be retained. Both terminal systems receive 10 W of backplane power, so analog and specialty slices can draw supply current without extra cabling. This high channel density enables extensive sensor arrays or multi-axis drives to be attached directly to the embedded PC.

The base platform consumes **11 W** during normal operation; when an internal UPS is fitted, the requirement increases to 18 W. All electronics are supplied from a **24 V DC** source, and the unit can provide up to 2 A through the terminal supply line for downstream sensors. The circuit boards have a dielectric strength of **500 V**, providing electrical isolation within the controller. The enclosure has an **IP20** rating, permitting installation in enclosed,

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climate-controlled panels. Application code executes on the preinstalled TwinCAT 2 PLC Runtime, allowing deterministic task scheduling, motion control, and fieldbus management within a uniform software environment.

Specifications

Core Count:	1	**Cpu Clock:**	1.46 GHz	**Dielectric Strength:**	500 V
E-bus Terminals:	65534	**E-bus/k-bus Power:**	10 W	**Graphic Memory:**	256 MB
K-bus Terminals:	64	**Main Memory:**	2 GB DDR3-RAM	**Power Draw:**	11 W
Power Draw With Ups:	18 W	**Power Supply:**	24 V DC	**Processor:**	Intel Atom E3815
Protection Rating:	IP20	**Terminal Supply:**	2 A	**Twincat Runtime:**	TwinCAT 2 PLC Runtime
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