

The CX5000 series extends the Embedded PC family with a new compact model

# Embedded PC with Atom drive

The new CX5000 is now the most compact x86 Embedded PC from Beckhoff. The dynamic DIN rail-mountable PC features a fanless design with a maximum power dissipation of only 8 Watts. This new automation concept is made possible by the latest processor generation from Intel, the Atom™. The CX5000 also offers great potential for cost optimizations. With the Atom™ processor, the CX5000 is around 30 percent less expensive than other devices with comparable performance.



CX5000 Embedded PC series with Intel® Atom™ processor

The housing design for the CX5000 series is optimized for robustness and compactness. No modular expandability for the left-hand side is provided. However, EtherCAT integration offers a wide range of expansion capability. Further master/slave fieldbus connections (PROFIBUS, CANopen, DeviceNet) or communication interfaces (RS232, RS422/RS485) and all other signal types accessible via EtherCAT can be directly connected as EtherCAT Terminals.

The CX5010 is equipped with a 1.1 GHz Intel® Atom™ processor, while the CX5020 features a 1.6 GHz processor. The new CX series is positioned in the mid-range of the scalable Embedded PC family, which currently includes five CPU classes. In terms of performance, the CX5000 series is positioned between the well-established CX1010 and CX1020.

With dimensions of just 85 mm x 100 mm x 91 mm (W x H x D) including the power supply unit and I/O interface, the CX5000 is exceptionally compact. It is DIN rail-mountable and fanless with a direct I/O connection to Beckhoff Bus Terminals or EtherCAT Terminals. In contrast to the other CX device families, the CX5000 series has a fixed number of system interfaces. EtherCAT Terminals offer a wide range of expansion options, including integration of fieldbus masters or slaves such as those for

PROFIBUS, PROFINET, DeviceNet, CANopen, etc. Two independent Gigabit Ethernet ports and four USB 2.0 interfaces are available on the CX5000. A Beckhoff Control Panel or a standard DVI monitor can be connected to the DVI-D interface. An interchangeable Compact Flash card is used as the boot and storage medium. The operating system can be Windows CE or Windows XP Embedded. TwinCAT automation software from Beckhoff transforms a CX5000 system into powerful PLC and Motion Control system that can be used with or without visualization.

[www.beckhoff.com/CX5000](http://www.beckhoff.com/CX5000)