Beckhoff — CX Embedded PC Systems

CX5140-0122



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The **CX5140-0122** is an embedded PC manufactured by Beckhoff for the CX Embedded PC Systems series. It combines a PLC-class processor, memory, fieldbus connections, and storage in a compact DIN-rail housing. The unit can execute machine control, motion sequencing, and visualization tasks directly inside an electrical cabinet, reducing the need for a separate industrial computer.

The computing core is an **Intel Atom E3845 quad-core processor running at 1.91 GHz**, providing four processing cores that can support the logical controller tasks used by the TwinCAT 2 NC PTP Runtime. Application code and real-time variables reside in **4 GB of DDR3 RAM**, providing working memory for control programs and operating data. Peripheral equipment such as operator panels, barcode readers, and service drives can connect through **four USB 2.0 ports**. Ethernet communication is available through **two RJ45 ports**, allowing the computer to connect to an IT network and a compatible industrial Ethernet segment at the same time. During continuous operation, the platform has a peak power consumption of **16 W**. An optional UPS module raises total demand to 23 W while supporting an orderly shutdown after a power interruption. The internal regulators receive power from a 24 V DC control supply, which is compatible with common DIN-rail automation equipment.

Graphics output is managed by an integrated controller operating at **542 MHz** and supported by **256 MB of dedicated video memory**. This graphics hardware can operate local HMI screens and display diagnostic dashboards without requiring a separate graphics card. The aluminum enclosure has an **IP20 protection rating**, so the unit must be mounted in a clean, closed electrical cabinet that protects it from dust and moisture. The

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housing measures 142 mm wide and 100 mm high, with a **depth of 92 mm**, allowing it to fit alongside standard terminal rows while preserving necessary ventilation space. Heat generated during operation is directed through the side heat sink. The compact housing also leaves DIN-rail space available for adjacent I/O terminals, servo drive components, or uninterruptible power accessories.

Specifications

Control Runtime:	TwinCAT 2 NC PTP Runtime	**CPU cores:**	4	**Depth:**	92 mm
Graphics Base Clock:	542 MHz	**Graphics Memory:**	256 MB	**Height:**	100 mm
Lan Ports:	2 x RJ45	**Main Memory:**	4 GB DDR3-RAM	**Max Power:**	16 W
Max Power With Ups:	23 W	**Processor:**	Intel Atom E3845 1.91 GHz	**Protection Rating:**	IP20
Supply Voltage:	24 V DC	**USB ports:**	4 x USB 2.0	**Width:**	142 mm
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