

Beckhoff — CX Embedded PC Systems

CX2040-0100-1002



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The **CX2040-0100-1002** is an industrial PC module produced by Beckhoff and supplied within the CX Embedded PC Systems series. It acts as the central control node in distributed automation architectures, hosting real-time task scheduling, fieldbus communication, and visualization services directly on the DIN rail alongside I/O terminals. By combining an Intel Core i7-2715QE processor with integrated interfaces, the device eliminates the need for a separate rack-mounted computer and reduces panel space in machine and process control cabinets.

The quad-core architecture provides **4** processor cores that share a base clock of **2.1 GHz**, so PLC, HMI, and motion applications can run concurrently. A main memory pool of **4 GB DDR3 RAM** holds executable code and variable tables, while a nonvolatile NOVRAM segment preserves retentive data during power loss. Peak power consumption is limited to **32 W**, allowing passive ventilation in tight enclosures when the unit is supplied by a control circuit rated at **24 V DC**. Two independent Gigabit controllers provide **2** Ethernet channels for time-critical fieldbus protocols or separation of plant networks. Graphics output uses 128 MB of dedicated video memory for panel displays. The unit is supplied without a preinstalled operating system, allowing users to install an appropriate real-time Windows or TwinCAT/BSD image.

Peripheral access is provided through **4** USB 2.0 connectors that support mass-storage devices, service tools, or local HMI touchscreens. The housing meets the **IP20** protection class, so it is suited for clean electrical cabinets where protection against finger contact is required but additional sealing is unnecessary. Internal circuitry withstands up to **500 V** of dielectric strength between the supply and protective earth, enhancing safety in systems

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with multiple ground references. The housing measures 99 mm in height, 144 mm in width, and 91 mm in depth, keeping the profile compact for multi-axis machines or skid-mounted process units.

Specifications

Approvals:	CE, cULus	Core Count:	4	Cpu:	Intel Core i7, 2.1 GHz, Dual-Core
Cpu Frequency:	2.1 GHz	Depth:	91 mm	Dielectric Strength:	500 V
Dimensions (w X H X D):	142 mm x 100 mm x 91 mm	Ethernet Port Count:	2	Flash Memory:	CFast card slot (4 GB CFast card pre-installed), 2.5-inch SSD (optional)
Graphics Memory:	128 MB	Height:	99 mm	Iec Protection Class:	IP 20
Interfaces:	4 x USB 2.0, 2 x Ethernet 10/100/1000BASE-T (RJ45), DVI-I, 2 x DisplayPort, 2 x serial interface	Main Memory:	4 GB DDR3 RAM	Max Power Consumption:	32 W
Mounting:	DIN rail	Novram:	128 kB	Operating System:	None
Operating Temperature:	0...+55 degrees C	Power Consumption:	Approx. 26 W (without I/O modules and additional devices)	Power Supply:	24 V DC (-15%/+20%)
Processor:	Intel Core i7-2715QE	Protection Class:	IP20	Ram:	4 GB DDR3L (expandable to 8 GB)
Storage Temperature:	-25...+85 degrees C	Supply Voltage:	24 V DC	Usb Port Count:	4
Weight:	Approx. 1.2 kg	Width:	144 mm	Last Verified:	10/26/2026 12:24 AM

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