

Beckhoff — CX Embedded PC Systems

CX 1500-B520-1001

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The **CX 1500-B520-1001** communication module belongs to the CX Embedded PC Systems series produced by **Beckhoff**. It adds a dedicated fieldbus interface to a CX controller so the host PC can exchange process data with external I/O devices on a decentralized network. Within an automation line, the module allows the embedded PC to appear as an intelligent remote node, simplifying the integration of sensors, drives, and actuators without additional standalone gateways.

The module is equipped with a **DeviceNet** controller so the host CPU can use the CAN-based protocol widely adopted in machine control. Connection to the rest of the CX system occurs through the **PC104** stack connector, which supplies power and a 16-bit data bus for high-speed register access. Network behavior is fixed to **slave role**, meaning the module answers master requests and does not initiate traffic; this simplifies configuration in PLC environments. Up to **two communication modules** can be added to one CX station, allowing different fieldbuses to be combined while respecting backplane limits. Installation in a control cabinet is handled with a **top-hat rail** clip, providing quick snap-on mounting and easy lateral coupling to adjacent CX units.

The slim housing supports dense panel layouts. A front width of **38 mm** keeps the footprint narrow, while a housing height of **100 mm** aligns with standard CX head units for uniform cable routing. The depth of **91 mm** provides adequate space for the fieldbus transceiver while allowing the module to fit inside shallow cabinets. These proportions and the low mass of the electronics minimize stress on the DIN rail during vibration. The enclosure protects the internal electronics while permitting convenient access to the network connection. Its narrow profile

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also leaves more horizontal rail space for adjacent CX components and other control equipment.

Specifications

Approvals:	CE, UL	CE:	Approved	Communication Interface:	Ethernet
cUR:	Approved	Dimensions (w X H X D):	24 mm x 100 mm x 70 mm	Fieldbus Type:	DeviceNet
Heavy-Duty:	Yes	Material:	Polycarbonate	Max Modules Per System:	2
Module Depth:	91 mm	Module Height:	100 mm	Module Width:	38 mm
Mounting Type:	Top-Hat Rail	No. Of Channels:	1	Node Role:	Slave
Operating Temperature:	0°C to +55°C	Operating Voltage:	24 V DC	Protection Class:	IP20
Storage Temperature:	-25°C to +85°C	System Interface:	PC104	Ucl:	Approved
Weight:	approx. 120 g	Last Verified:	10/24/2026 2:29 AM		

Contact Us

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