

Beckhoff — CX Embedded PC Systems

CX1010-N010

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The **CX1010-N010** is an embedded PC module produced by Beckhoff within the CX Embedded PC Systems series. Designed as a compact control computer, it mounts directly alongside DIN-rail I/O terminals and executes PLC programs, motion logic, and visualization tasks for industrial automation equipment. By integrating PC-class processing with fieldbus connectivity in a housing that is only 19 mm wide, the unit consolidates control and visualization processing in space-restricted control cabinets.

The front panel provides a **DVI-I 29-pin connector** for monitor output and **two USB 2.0 Type-A ports** for external peripherals. Operating power is supplied **through the system bus**, so no individual supply cable is required when the module is connected to the CX base section. Backplane communication with extension cards occurs through an **internal PC/104 interface** that transfers data between the module and the host system. Each downstream USB channel is limited to **100 mA per port**, protecting the motherboard from overcurrent loads caused by incompatible flash drives or service adapters. The housing has an **IP20** rating, which provides protection against contact with large solid objects but does not provide protection against water. The module is therefore intended for installation inside a suitable control cabinet in a dry indoor location.

The module measures **19 x 100 x 51 mm**, allowing multiple units to reside side by side within a standard enclosure depth. Continuous operation is permitted at a relative humidity of up to **95% without condensation**, supporting use in humid production areas when moisture does not accumulate on the circuits. For legacy projectors or KVM switches, analog video can be extracted through the DVI-I socket's **DVI-A pins**, enabling compatibility

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without separate VGA hardware.

Specifications

Connector Type:	DVI-I 29-Pin; 2 x USB-A	Dimensions:	19 x 100 x 51 mm	Dimensions (w X H X D):	19 mm x 100 mm x 51 mm
Display And Usb:	1 x DVI-I; 2 x USB 2.0	Emc Immunity/emission:	conforms to EN 61000-6-2/EN 61000-6-4	Humidity Limit:	95% Non-Condensing
Interfaces:	1 x DVI + 2 x USB 2.0 (max. 500 mA per port)	Operating/storage Temperature:	0...+55°C / -25...+85°C	Power Supply:	Via System Bus
Properties:	DVI-I interface also carries out VGA signals (DVI-A)	Protection Class:	IP20	Protection Rating:	IP20
System Bus:	Internal PC104	Type Of Connection:	DVI-I 29-pin socket + 2 USB ports type A	Usb Current:	100 mA Per Port
Vga Support:	DVI-A	Vibration/shock Resistance:	conforms to EN 60068-2-6/EN 60068-2-27	Weight:	approx. 80 g
Last Verified:	10/24/2026 6:19 AM				

Contact Us

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