

Beckhoff — CX Embedded PC Systems

CX1020-N010



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The **CX1020-N010** is a compact expansion module produced by Beckhoff for the CX Embedded PC Systems series. It attaches to a CX1020 CPU base unit and provides a dedicated display and peripheral interface so that the embedded controller can drive a local operator panel or remote monitor within an industrial automation cell. By adding video output and USB ports through the system bus, the module allows machine builders to connect human-machine interfaces without installing a separate graphics card or external hub.

The housing has a depth of **51 mm**, and its front panel carries a **DVI-I 29-pin socket** that supports both analog and digital signals for flexible panel selection. Beckhoff groups this connector with an interface set consisting of **1 x DVI + 2 x USB 2.0**, allowing a touchscreen and service drive to operate simultaneously. A maximum cable length of **5 m** is supported between the DVI port and the display; beyond that distance, signal repeaters are required. Each USB receptacle is limited to a source current of **100 mA**, so low-power keyboards, mice, or memory devices can be powered directly. Two Type-A USB sockets provide the physical connections, and VGA monitors are also supported through the DVI-A pins. The integrated beeper provides basic acoustic feedback for alarms or operator prompts.

The enclosure is rated **IP20**, and its width of **19 mm** keeps the overall CX1020 assembly narrow on a DIN rail. Electromagnetic immunity and emissions comply with **EN 61000-6-2 / EN 61000-6-4**, while mechanical endurance complies with **EN 60068-2-6 / EN 60068-2-27/29** for vibration and shock in control cabinets. The overall height is 100 mm, matching the profile of the CPU slice. Power is drawn internally through the system bus, eliminating the

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need for separate wiring.

Specifications

Depth:	51 mm	Dimensions (w X H X D):	19 mm x 100 mm x 51 mm	Dvi Connector:	DVI-I 29-pin socket
Dvi Signal Type:	Analog and digital	Emc Immunity/emission:	conforms to EN 61000-6-2/EN 61000-6-4	Emc Standard:	EN 61000-6-2 / EN 61000-6-4
Height:	100 mm	Interface Set:	1 x DVI + 2 x USB 2.0	Interfaces:	1 x DVI + 2 x USB 2.0 (max. 500 mA per port)
Max Display Distance:	5 m	Max Usb Port Current:	100 mA	Operating/storage Temperature:	0A-+55AC/-25A-+85AC
Pc Beeper:	Built-in	Power Supply:	Via system bus	Properties:	DVI-I interface also carries out VGA signals (DVI-A)
Protection Class:	IP20	Protection Rating:	IP20	Type Of Connection:	DVI-I 29-pin socket + 2 USB ports type A
Usb Connector:	2 x Type A	Vga Support:	Yes (DVI-A)	Vibration/shock:	EN 60068-2-6 / EN 60068-2-27/29
Vibration/shock Resistance:	conforms to EN 60068-2-6/EN 60068-2-27	Weight:	approx. 80 g	Width:	19 mm
Last Verified:	10/23/2026 7:21 AM				

Contact Us

-  1620 Old Apex Road, Cary, NC 27513, USA
-  **Toll Free:** [1-888-551-3082](tel:1-888-551-3082)
-  **International:** [1-919-443-0207](tel:1-919-443-0207)
-  **Fax:** [1-919-867-6204](tel:1-919-867-6204)
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