Beckhoff — CU EtherCAT Junctions

CU8005-0000



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The **CU8005-0000** is a junction device produced by Beckhoff for the **CU EtherCAT Junctions** series. It combines a rail-mounted USB hub with EtherCAT distribution, allowing control, service, or diagnostic lines to branch inside a cabinet without requiring additional panel space. One upstream host connection links the module to the controller, while four downstream sockets provide power and communication for local peripherals. This arrangement simplifies internal wiring and reduces external cable runs in industrial automation systems.

The electronics are energized by a field supply of **24 VDC**, and polarity-reversal protection helps prevent damage from accidental supply-line miswiring. Overall demand on the auxiliary supply is limited to **1 A**, while the USB interface draws only **110 mA** from the host, leaving bus power available for other devices. In idle mode, the circuitry draws **80 mA**, which can be considered when sizing control-cabinet power reserves. Each downstream port provides **5 V** and can source up to 1.0 A for keyboards, service dongles, or diagnostic adapters that require external power. The hub complies with the USB 2.0 standard and supports signaling rates of up to 480 Mbit/s for high-speed data exchange over short industrial cable runs.

The housing mounts directly on a 35 mm DIN rail, and its unrestricted installation position allows the module to be oriented as needed within the cabinet. A single upstream connector and **four downstream connectors** are provided for the host and peripheral connections. Individual cable segments may extend up to **5 m** per port without violating USB timing requirements. The **IP20** enclosure protects internal components against contact with fingers and similarly sized objects while remaining suitable for installation inside a protected control cabinet. Its compact

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rail-mounted format helps conserve panel area and allows nearby wiring ducts and control components to remain accessible.

Specifications

Connectors:	2 x RJ45 Ethernet, 2 x USB 2.0, 1 x DVI-D	**Data Storage:**	512 MB Flash	**Dimensions (w X H X D):**	48 mm x 100 mm x 70 mm
Downstream Port Voltage:	5 V	**Downstream Usb Ports:**	4	**Host-connected Current:**	110 mA
Installation Position:	Any	**Ip Rating:**	IP20	**Max Current Consumption:**	1 A
Max Port Current:	1.0 A	**Max Usb Wiring Length:**	5 m	**Memory:**	1 GB DDR2 RAM
Mounting:	DIN rail mounting	**Mounting Rail:**	35 mm	**Open-circuit Current:**	80 mA
Operating Temperature Range:	0 degrees C to 50 degrees C	**Polarity Reversal Protection:**	Yes	**Power Consumption:**	6.5 W
Processor:	Intel Atom	**Protection Class:**	IP20	**Supply Voltage:**	24 VDC
Supported Standard:	USB 2.0	**Upstream Usb Ports:**	1	**Weight:**	Approx. 180 g
Last Verified:	11/09/2026 10:13 AM				

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