

22.4 EHB1 EtherCAT® hub

22.4.1 Designated use

The *EHB1* EtherCAT® hub is a module for connecting OMICRON accessories like the *CB MC2*, *CB TN3* and *IOB1* modules to *CIBANO 500* EtherCAT® interface.

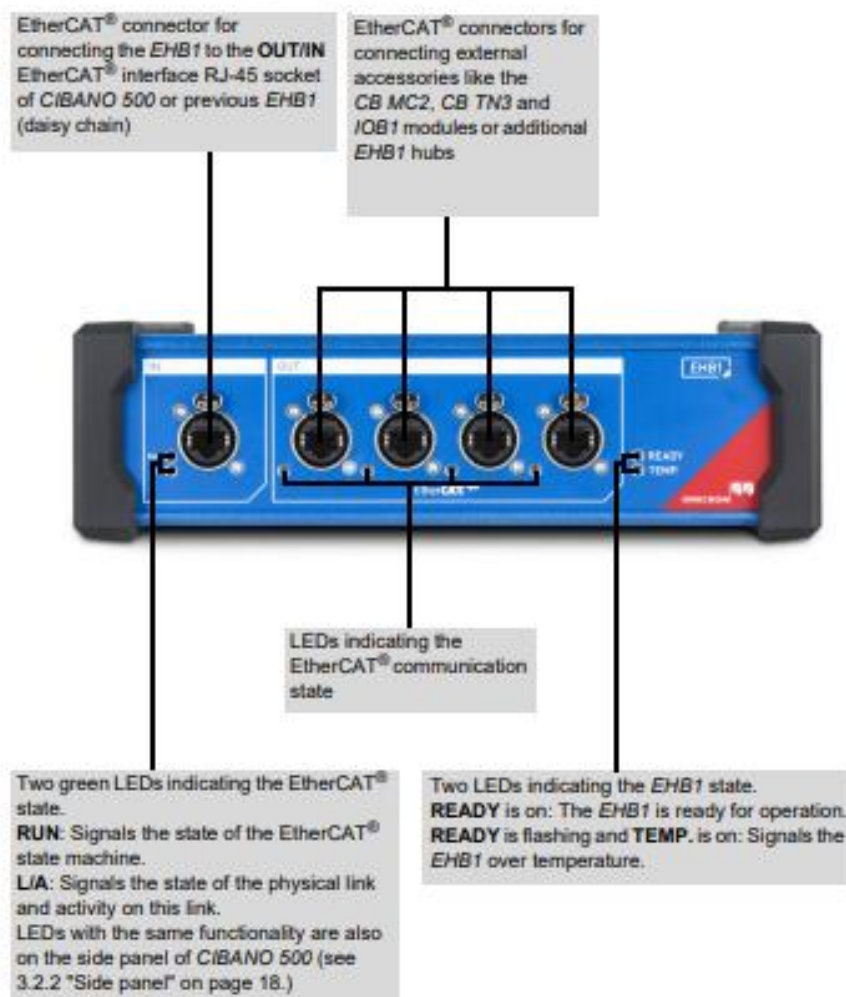


Figure 22-9: Front view of the *EHB1* EtherCAT® hub

22.4.2 Technical data

Table 22-24: EHB1 communication specifications

Characteristic	Rating
Output	
Number of channels	4
Devices per channel	1×CB MC2, 1×CB TN3 or 1×IOB1
Max. cable length	50 m/164 ft
Input	
Number of channels	1
Interface	
Communication protocol	EtherCAT®
Connector type	RJ-45

Table 22-25: Power supply specifications

Characteristic	Rating	
Voltage	Nominal	100 V...240 V AC
	Permitted	85 V...264 V AC
Current	Maximal	2.5 A
Frequency	Nominal	50 Hz/60 Hz
	Permitted	45 Hz...65 Hz
Connector type	IEC320/C14, 1 phase	

Table 22-26: Climate

Characteristic	Rating	
Temperature	Operating	−10 °C...+55 °C/+14 °F...+131 °F
	Storage	−30 °C...+70 °C/−22 °F...+158 °F
Max. altitude	Operating	5 000 m/16 400 ft
	Storage	12 000 m/40 000 ft

Table 22-27: Mechanical data

Characteristic	Rating
Dimensions (w × h × d)	265 mm × 80 mm × 180 mm/10.4 inch × 3.1 inch × 7.1 inch
Weight	1.8 kg/4.0 lb

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Table 22-28: Standards conformity

EMC, safety		
EMC	IEC/EN 61326-1 (industrial electromagnetic environment) FCC subpart B of part 15, class A	
Safety	IEC/EN/UL 61010-1	
Other		
Shock	IEC/EN 60068-2-27 (15 g/11 ms, half-sinusoid, 3 shocks in each axis)	
Vibration	IEC/EN 60068-2-6 (frequency range 10 Hz...150 Hz, acceleration 2 g continuous (20 m/s ² /65 ft/s ²), 20 cycles per axis)	
Humidity	IEC/EN 60068-2-78 (5%...95% relative humidity, no condensation), tested at 40 °C/104 °F for 48 hours	