



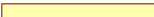








Mount the terminal block on DIN rail space.
Use the terminal block to distribute the 24V supply.

This EtherCAT chassis uses copper only.
Mount the modular adapters to the front panel.
Using CAT5 patch cables:

- Connect the front panel input to the right coupler input.
- Connect the right coupler output to the left coupler input
- Connect the front panel output to the output of the left coupler.

 PN1 Enclosure LIGO D2500163-v1	 PN2 Ethernet patch cable, 24'	 PN3 Ethernet patch cable, 24'	 PN4 Power Distribution Block Digi-Key 277-2006-ND
 PN5 Front panel LIGO D2500161-v2			
 PN6 Rear panel LIGO D2500162-v2			

1	2	3	4	5	6	7	8	9	10
PN7 BNC isolated	PN8 BNC isolated			PN9 M12 socket					
PN10 BNC isolated	PN11 BNC isolated	PN12 Rotation stage adapter	PN13 Rotation stage adapter	PN14 M12 socket	PN15 Adapter panel	PN16 Adapter panel	PN17 Adapter panel	PN18 Adapter panel	PN19 USB-C Extension
		LIGO	LIGO		LIGO	LIGO	LIGO	LIGO	
PN20 BNC isolated	PN21 BNC isolated	D1300131-v1/E	D1300131-v1/E	PN22 M12 socket	D0902557-v1	D0902557-v1	D0902557-v1	D0902557-v1	PN23 USB-C Extension
									Digi-Key
PN24 BNC isolated	PN25 BNC isolated			PN26 M12 socket					5073-U3A00057-03M-ND
Digi-Key	Digi-Key			Digi-Key					
ARFX1905-ND	ARFX1905-ND			236-XS5P-D427-5-ND					
PN28		E1 #6-32 1/4" flat	E2 #6-32 1/4" flat						PN27
DB9/male									Power Meter Interface
Digi-Key		E3 #6-32 1/4" flat	E4 #6-32 1/4" flat						Thorlabs PM101
5-747904-5-ND									
		McMaster-Carr	McMaster-Carr						PN29
		91099A205	91099A205						Power Meter Interface
									Thorlabs PM102
Laser	Flipper	Rotation Stage	Rotation Stage	Temp. Sensors	Spare	Spare	Spare	Spare	Photodetectors

M12	Color	PT100
1	brown	RL+
2	white	R+
3	blue	RL-
4	black	R-

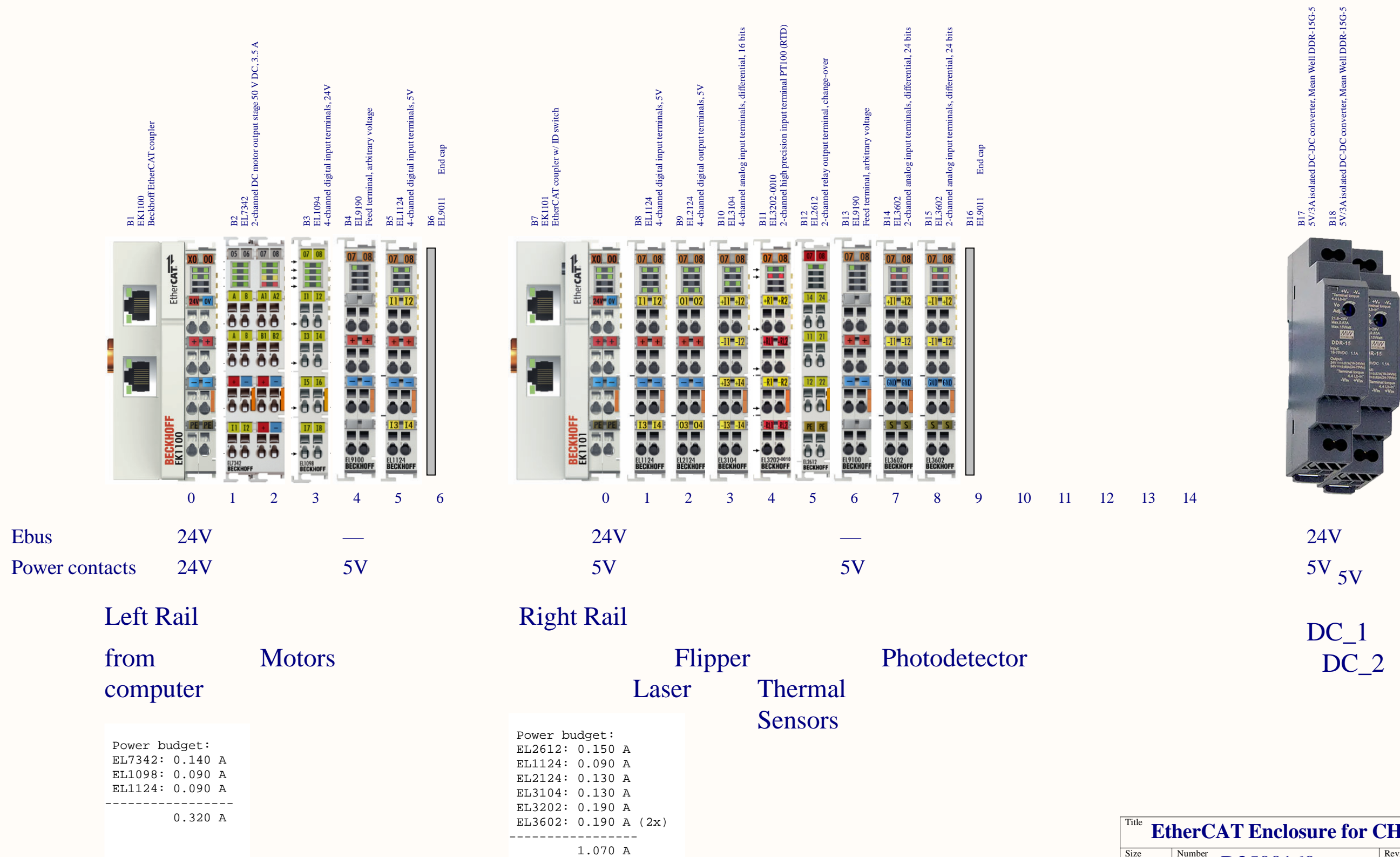
Title			EtherCAT Enclosure for CHETA
Size	Number	Revision	
B	D2500160	2	
Date:	9/09/2025	Sheet 1 of 3	
File:	C:\Users\...\EtherCATCheta1.SchDoc	Drawn By: Daniel Sigg	

A

E

C

I



Title EtherCAT Enclosure for CHETA		
Size B	Number D2500160	Revision 2
Date: 9/09/2025	Sheet 2of 3	
File: C:\Users\...EtherCATCheta2.SchDoc	Drawn By: <u>Daniel Sigg</u>	

