



H1 Handle, 4.5"
H2 Handle, 4.5"
Mouser 534-481
H3 Ferrule, 0.25"
H4 Ferrule, 0.25"
H5 Ferrule, 0.25"
H6 Ferrule, 0.25"
Mouser 534-7163
M1 #8-32 1/2" flat
M2 #8-32 1/2" flat
M3 #8-32 1/2" flat
M4 #8-32 1/2" flat
McMaster-Carr 91099A265

PN14 LED Indicator, ON Digi-Key 350-1889-ND
PN19 Thermal breaker Digi-Key 486-2381-ND
PN22 Ring terminal, #10, AWG 16 Digi-Key A27243-ND
PN25 DIN rail, 7" Digi-Key ADR3515-S0700-ND

PN1 Front panel LIGO D2500161-v1
PN4 Rear panel LIGO D2500162-v1

PN7 Top panel LIGO D2500163-v1
PN9 Bottom panel LIGO D2500163-v1

PN11 Side panel LIGO D2500164-v1
PN13 Side panel LIGO D2500164-v1

PN15 Power pin, AWG 16-20 Digi-Key 626-1140-ND
PN20 Power socket, AWG 16-20 Digi-Key 626-1144-ND
PN24 D-sub shell, 3W3C Digi-Key 626-1098-ND

PN2 Housing profile
PN3 Housing profile
PN5 Housing profile
PN6 Housing profile Frontpanel Express Housing profile 1, 250mm

PN8 Housing bracket Frontpanel Express Housing bracket 8 x per unit, natural anodized
PN10 Assembly kit Frontpanel Express Assembly kit IGP/B6.0-NI DIN 965, nickel-plated
PN12 Screw kit Frontpanel Express Screw packet M3x6-965-NI DIN 965, nickel-plated

PN16 Modular coupler
PN18 Modular coupler Digi-Key 5073-ECF504-SC5E-ND
PN21 USB-C Extension
PN23 USB-C Extension Digi-Key 5073-U3A00057-03M-ND

PN26 Power Meter Interface Thorlabs PM101
PN27 Power Meter Interface Thorlabs PM102

M5 M5 10mm flat
M7 M5 10mm flat
M9 M5 10mm flat
McMaster-Carr 91420A320

M11 M5 nut
M12 M5 nut
M13 M5 nut
McMaster-Carr 90591A260

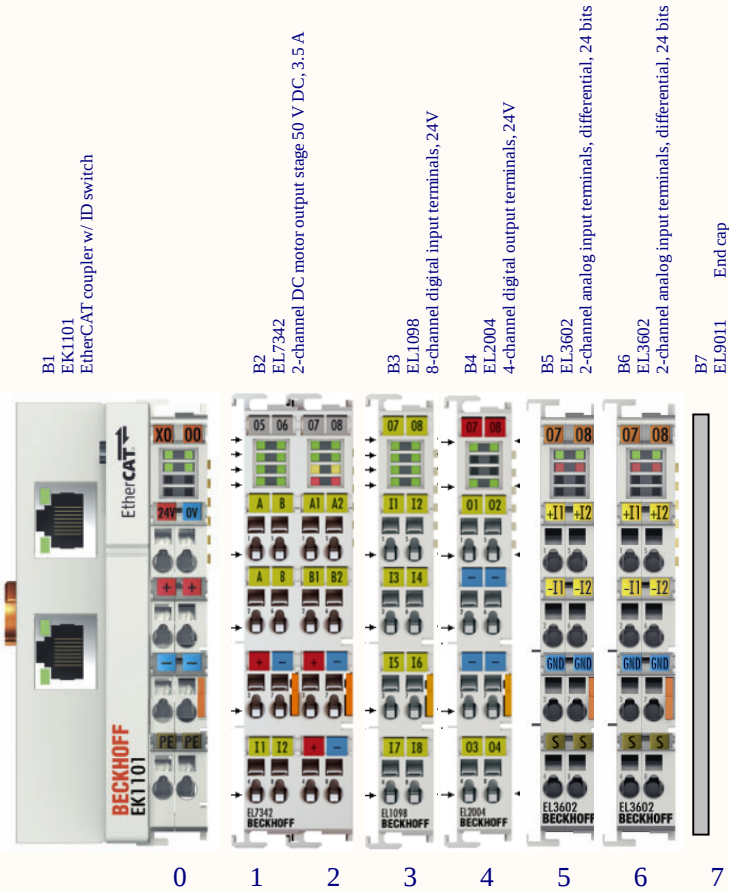
M14 M5 lock washer
M15 M5 lock washer
M16 M5 lock washer
McMaster-Carr 97985A550

Use the hook-up wires from the EtherCAT chassis (D0902552-v3)

Wire the 24VDC input through the thermal switch.

M6 M5 spacer
M8 M5 spacer
M10 M5 spacer
McMaster-Carr 92871A243

Title		
EtherCAT Enclosure for CHETA		
Size A	Number D2500160	Revision 1
Date:	5/29/2025	Sheet 1 of 2
File:	C:\Users\...\EtherCAT\Cheta1.SchDoc	Drawn By: Daniel Sigg



Ebus 24V
Power contacts 24V

from computer Motors Thermal
Flipper Sensors

Power budget:
EL7342: 0.140 A
EL1098: 0.090 A
EL2004: 0.100 A
EL3602: 0.190 A

0.710 A

Title EtherCAT Enclosure for CHETA		
Size B	Number D2500160	Revision 1
Date:	5/29/2025	Sheet 2 of 2
File:	C:\Users\...\EtherCATCheta2.SchDoc	Drawn By: Daniel Sigg