



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

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

- Connect the front panel input to the input of the first coupler (left rail).
- Connect the front panel output to the output of the first coupler.
- Connect the EL6688 to slot 9 (PTP).
- Connect the first EL6692 input/output to the rear panel port 1/2, respectively.
- Insert the second EL6692 into the ECAT safty extension (middle rail/last & slot 4).
- Connect the CX5010 Ethernet to safety network in slot 5; second port to front panel
- Connect the CX5010 four USB and one DVI to the front panel.

Using single LC-to-SC fiber patch cables

- Connect the EK1521s (left rail) to the corresponding adapter in slot 9 (single mode fiber for EK1521-0010).
- Connect the EK1521s (middle rail) to the corresponding adapter in slot 5 (single mode fiber for EK1521-0010).

IN

OUT

Ports

1

2

PN1
EtherCAT chassis
LIGO
D0902552-v3

PN9
Modular coupler
L-Com
ECF504-SC5E

PN14
Modular coupler

PN19
Modular coupler

PN28
Modular coupler

PN2
Name Plate
LIGO
D1101832-v1

PN10
Ethernet patch cable, 1'
Newark
21M5658

PN15
Ethernet patch cable, 1'

PN20
Ethernet patch cable, 3'

PN29
Ethernet patch cable, 3'
Newark
21M5874

PN3
Front panel
LIGO
D1200294-v1

CAT5 Corner

CAT5 Corner

CAT5/Blank H2 IN

H2 OUT

PN4
USB panel mount

PN11
DVI feedthrough
L-Com
DMB605FF

PN16
Modular coupler

PN21
Ethernet patch cable, 3'

PN34
Fiber patch cable, LC-SC

PN44
D-Sub cable, DB9, male

PN49
D-Sub cable, DB9, female

PN55
IDC socket, 10pin

PN65
Terminal Block

PN71
Terminal Block

PN5
USB panel mount

PN12
DVI cable
L-Com
DVIDS-RA2-1

PN17
Ethernet patch cable, 1'

PN22
Ethernet patch cable, 3'

PN35
Fiber patch cable, LC-SC

PN45
D-Sub cable, DB9, male
Digi-Key
H7PXH-0906G-ND

PN50
D-Sub cable, DB9, female

PN56
IDC socket, 10pin

PN66
Terminal Block

PN72
Terminal Block

PN6
USB panel mount

PN7
USB panel mount
L-Com
ECF504-30-03AAS

PN23
Ethernet patch cable, 1'

PN27
Fiber LC-LC coupler
L-Com
FOA-801

PN36
Fiber patch cable, LC-SC

PN46
D-sub screw/retainer
L-Com
SDF1

PN51
D-Sub cable, DB9, female

PN57
IDC socket, 10pin

PN67
Terminal Block

PN73
Terminal Block

PN7
USB panel mount

PN8
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN25
Modular coupler

PN37
Fiber patch cable, LC-SC
L-Com
SFODSC-LC-01

PN47
Adapter panel
LIGO
D1100661-v1

PN52
D-Sub cable, DB9, female
Digi-Key
H7SXH-0906G-ND

PN58
IDC socket, 10pin

PN68
Terminal Block

PN74
Terminal Block

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN26
Fiber LC-LC coupler
L-Com
FOA-801

PN38
Fiber patch cable, LC-SC
L-Com
FODSC50-LC-01

PN48
Serial adapter
LIGO
D1100638-v1

PN53
Adapter panel
LIGO
D1100662-v1

PN59
IDC socket, 10pin

PN69
Terminal Block
Digi-Key
277-1483-ND

PN75
Terminal Block

PN8
Adapter panel
LIGO
D0902557-v1

PN11
DVI feedthrough
L-Com
DMB605FF

PN16
Modular coupler

PN21
Ethernet patch cable, 3'

PN39
Adapter panel
LIGO
D1100793-v2

PN49
D-Sub cable, DB9, female

PN54
DB37M adapter
LIGO
D0902569-v1

PN60
IDC socket, 10pin
Digi-Key
MKC10A-ND

PN70
End Plate
Digi-Key
277-1495-ND

PN76
Jumper, 10pos

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN40
M12 socket

PN47
Adapter panel
LIGO
D1100661-v1

PN53
Adapter panel
LIGO
D1100662-v1

PN61
Adapter panel
LIGO
D1100630-v1

PN77
Jumper, 10pos

PN77
Jumper, 10pos

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN41
M12 socket

PN48
Serial adapter
LIGO
D1100638-v1

PN54
DB37M adapter
LIGO
D0902569-v1

PN62
Modular coupler

PN70
End Plate
Digi-Key
277-1495-ND

PN76
Jumper, 10pos

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN42
M12 socket

E1 #6-32 1/4" flat

PN53
Adapter panel
LIGO
D1100662-v1

PN63
Fiber LC-LC coupler
L-Com
FOA-801

E2 #6-32 1/4" flat

E5 #2 3/8" pan

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN43
M12 socket
Newark
08R3678

E2 #6-32 1/4" flat

PN54
DB37M adapter
LIGO
D0902569-v1

PN64
Fiber LC-LC coupler
L-Com
FOA-570

E3 #6-32 1/4" flat

E6 #2 3/8" pan

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN44
D-sub screw/retainer
L-Com
SDF1

E3 #6-32 1/4" flat

PN54
DB37M adapter
LIGO
D0902569-v1

PN66
Terminal Block

E4 #6-32 1/4" flat

E7 #2 3/8" pan

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN45
D-Sub cable, DB9, male
Digi-Key
H7PXH-0906G-ND

E4 #6-32 1/4" flat

PN54
DB37M adapter
LIGO
D0902569-v1

PN67
Terminal Block

E5 #2 3/8" pan

E8 #2 3/8" pan

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN46
D-sub screw/retainer
L-Com
SDF1

E5 #2 3/8" pan

PN54
DB37M adapter
LIGO
D0902569-v1

PN68
Terminal Block

E6 #2 3/8" pan

E9 #2 washer

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN47
Adapter panel
LIGO
D1100661-v1

E6 #2 3/8" pan

PN54
DB37M adapter
LIGO
D0902569-v1

PN69
Terminal Block
Digi-Key
277-1483-ND

E7 #2 3/8" pan

E10 #2 washer

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN48
Serial adapter
LIGO
D1100638-v1

E7 #2 3/8" pan

PN54
DB37M adapter
LIGO
D0902569-v1

PN70
End Plate
Digi-Key
277-1495-ND

E8 #2 3/8" pan

E11 #2 nut

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN49
D-Sub cable, DB9, female

E8 #2 3/8" pan

PN54
DB37M adapter
LIGO
D0902569-v1

PN71
Terminal Block

E9 #2 washer

E12 #2 nut

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN50
D-Sub cable, DB9, female

E9 #2 washer

PN54
DB37M adapter
LIGO
D0902569-v1

PN72
Terminal Block

E10 #2 washer

E13 #2 nut

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN51
D-Sub cable, DB9, female

E11 #2 nut

PN54
DB37M adapter
LIGO
D0902569-v1

PN73
Terminal Block

E12 #2 nut

E14 #2 nut

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN52
D-Sub cable, DB9, female
Digi-Key
H7SXH-0906G-ND

E12 #2 nut

PN54
DB37M adapter
LIGO
D0902569-v1

PN74
Terminal Block

E13 #2 nut

E15 #2 washer

PN8
Adapter panel
LIGO
D0902557-v1

PN13
Adapter panel
LIGO
D0902557-v1

PN18
Adapter panel
LIGO
D0902557-v1

PN24
Adapter panel
LIGO
D1101827-v1

PN53
Adapter panel
LIGO
D1100662-v1

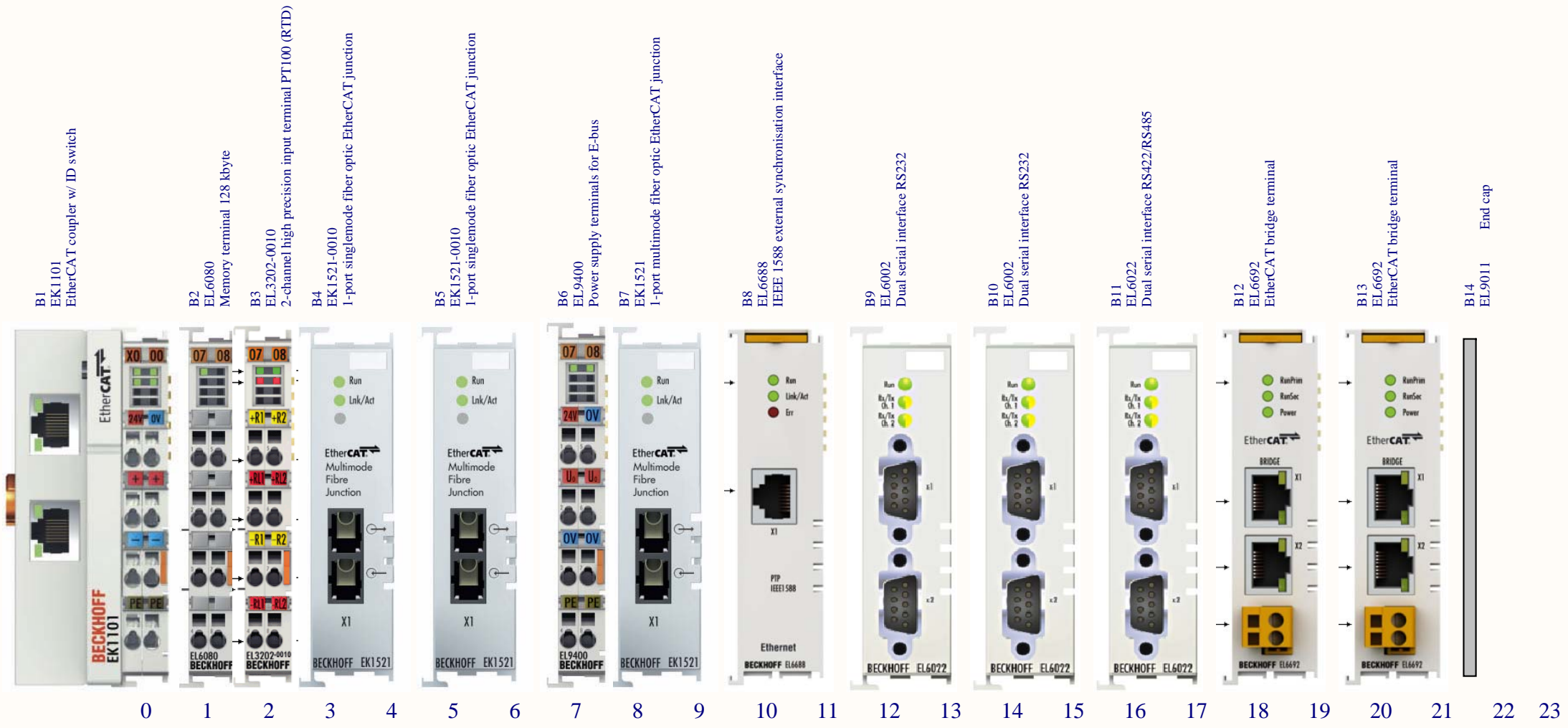
E14 #2 nut

PN54
DB37M adapter
LIGO
D0902569-v1

PN75
Terminal Block

E15 #2 washer

E16 #2 washer



Ebus 24V
 Power contacts 24V

MSR
EtherCAT

EX
Temp.

EY

Corner

PTP
Timing

RS232/RS422 x6

H2
Safety
EtherCAT

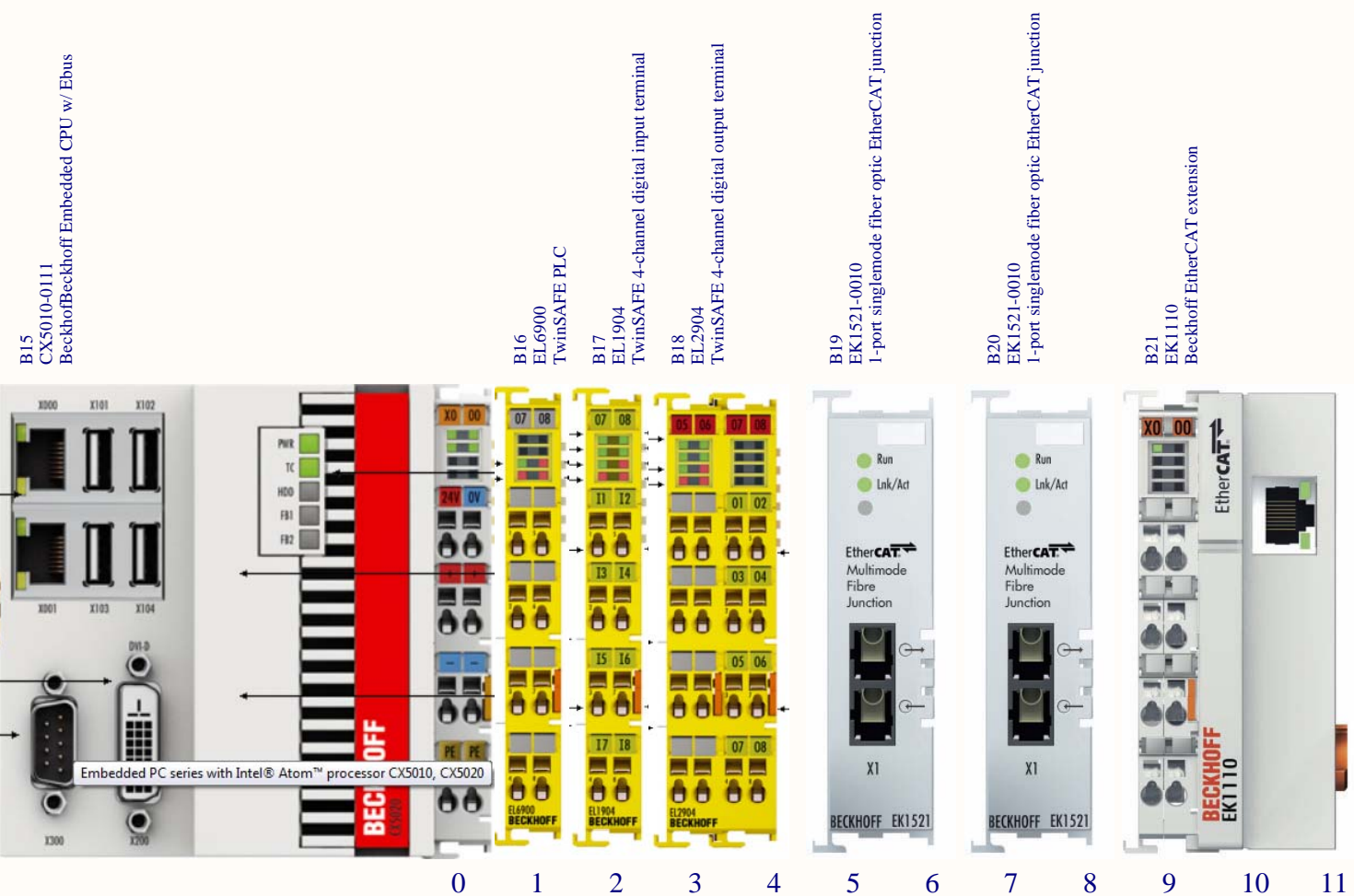
Power budget:
 EL6080: 0.130 A
 EL3202: 0.190 A
 EL1521: 0.400 A
 EL1521: 0.400 A

 1.120 A

Power budget:
 EL1521: 0.400 A
 EL6688: 0.310 A
 EL6002: 0.170 A
 EL6002: 0.170 A
 EL6022: 0.350 A
 EL6692: 0.120 A

 1.520 A

Title Remote Access Corner: Left Rail		
Size B	Number D1101830	Revision 1
Date: 3/6/2012	Sheet 2 of 4	
File: C:\Users\...\EtherCAT4kmH1Corner2.Sch		
Drawn By: Daniel Sigg		



Ebus 24V
 Power contacts 24V

Stand-alone Safety

Power budget:	
EL6900:	0.188 A
EL1904:	0.200 A
EL2904:	0.221 A
EL1521:	0.400 A
EL1521:	0.400 A
EK1110:	0.125 A

	1.534 A

Title Remote Access Corner: Middle Rail		
Size B	Number D1101830	Revision 1
Date:	3/6/2012	Sheet 3 of 4
File:	C:\Users\...\EtherCAT4kmH1Corner3.Sch Drawn By: Daniel Sigg	

1

2

3

4

5

6

A

A

B

B

C

C

D

D

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

Ebus 24V

Power contacts 24V

Expansion Room

Title		Remote Access Corner: Right Rail	
Size	Number	Revision	
B	D1101830	1	
Date:	3/6/2012	Sheet 4 of 4	
File:	C:\Users\...\EtherCAT4kmH1 Corner4.Sch Drawn By: Daniel Sigg		

1

2

3

4

5

6