

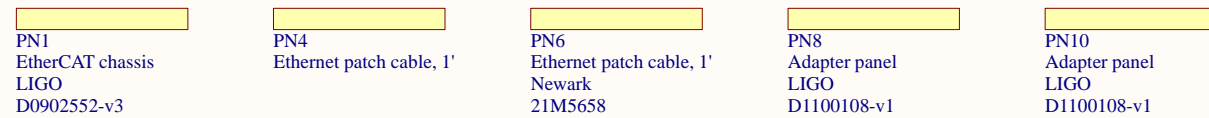


Mount the terminal block on spare DIN rail space.
Use the terminal block to distribute the 24V supply.

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 first coupler (left rail).
- Connect the front panel output to the output of the first coupler (left rail).

Ports

IN OUT 1A 2A



PN1
EtherCAT chassis
LIGO
D0902552-v3

PN4
Ethernet patch cable, 1'

PN6
Ethernet patch cable, 1'
Newark
21M5658

PN8
Adapter panel
LIGO
D1100108-v1

PN10
Adapter panel
LIGO
D1100108-v1

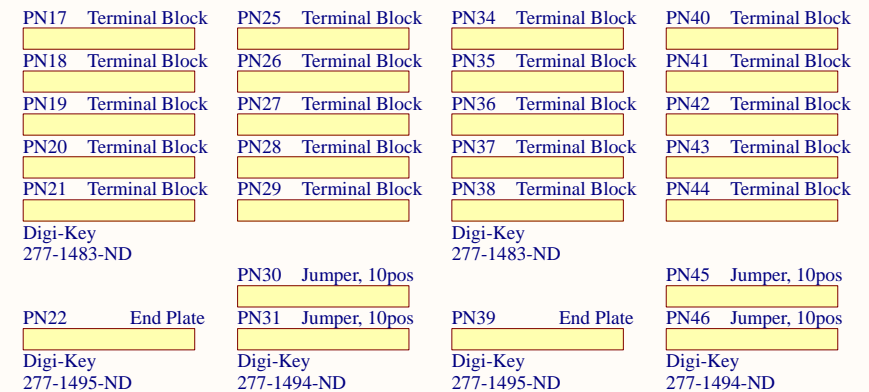
CAT5
Corner

CAT5
Corner

Blank

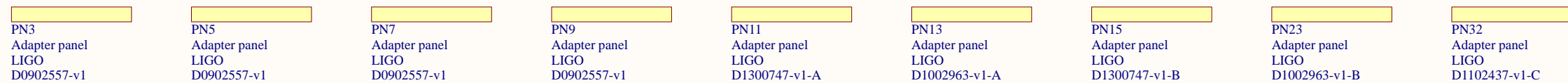
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TBLOCK



Slots

1 2 3 4 5 6 7 8 9



PN3
Adapter panel
LIGO
D0902557-v1

PN5
Adapter panel
LIGO
D0902557-v1

PN7
Adapter panel
LIGO
D0902557-v1

PN9
Adapter panel
LIGO
D0902557-v1

PN11
Adapter panel
LIGO
D1300747-v1-A

PN13
Adapter panel
LIGO
D1002963-v1-A

PN15
Adapter panel
LIGO
D1300747-v1-B

PN23
Adapter panel
LIGO
D1002963-v1-B

PN32
Adapter panel
LIGO
D1102437-v1-C

PN12
DB25M adapter
LIGO
D0902567-v1

PN14
DB25M adapter
LIGO
D0902567-v1

PN16
DB25M adapter
LIGO
D0902567-v1

PN24
DB25M adapter
LIGO
D0902567-v1

PN33
DB37M adapter
LIGO
D0902569-v1

E1 #6-32 1/4" flat
E2 #6-32 1/4" flat
McMaster-Carr
91099A205

E3 #6-32 1/4" flat
E4 #6-32 1/4" flat
McMaster-Carr
91099A205

E5 #6-32 1/4" flat
E6 #6-32 1/4" flat
McMaster-Carr
91099A205

E7 #6-32 1/4" flat
E8 #6-32 1/4" flat
McMaster-Carr
91099A205

E9 #6-32 1/4" flat
E10 #6-32 1/4" flat
McMaster-Carr
91099A205

Blank

Blank

Blank

Blank

VCO PLL
A

VCO
A

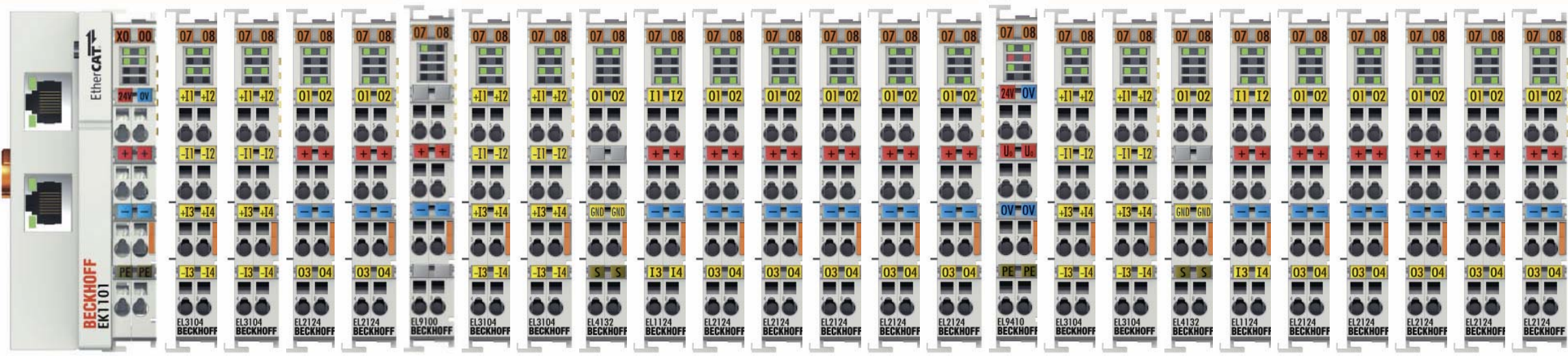
VCO PLL
B

VCO
B

RF Amp C

Title EtherCAT Corner 6		
Size B	Number D1300745	Revision 1
Date: 10/21/2013	Sheet 1 of 4	
File: D:\Users\...\EtherCATCornerF1.SchDoc	Drawn By: Daniel Sigg	

- B1 5V/0.6A isolated DC-DC converter, Omron S82S-7305
- B2 EK1101 EtherCAT coupler w/ ID switch
- B3 EL3104 4-channel analog input terminals, differential, 16 bits
- B4 EL3104 4-channel analog input terminals, differential, 16 bits
- B5 EL2124 4-channel digital output terminals, 5V
- B6 EL2124 4-channel digital output terminals, 5V
- B7 EL9190 Feed terminal, arbitrary voltage
- B8 EL3104 4-channel analog input terminals, differential, 16 bits
- B9 EL3104 4-channel analog input terminals, differential, 16 bits
- B10 EL4132 2-channel analog output terminals, differential, 16 bits
- B11 EL1124 4-channel digital input terminals, 5V
- B12 EL2124 4-channel digital output terminals, 5V
- B13 EL2124 4-channel digital output terminals, 5V
- B14 EL2124 4-channel digital output terminals, 5V
- B15 EL2124 4-channel digital output terminals, 5V
- B16 EL2124 4-channel digital output terminals, 5V
- B17 EL9410 Power supply terminals for E-bus, diagnostics
- B18 EL3104 4-channel analog input terminals, differential, 16 bits
- B19 EL3104 4-channel analog input terminals, differential, 16 bits
- B20 EL4132 2-channel analog output terminals, differential, 16 bits
- B21 EL1124 4-channel digital input terminals, 5V
- B22 EL2124 4-channel digital output terminals, 5V
- B23 EL2124 4-channel digital output terminals, 5V
- B24 EL2124 4-channel digital output terminals, 5V
- B25 EL2124 4-channel digital output terminals, 5V
- B26 EL2124 4-channel digital output terminals, 5V
- B27 EL9011 End cap
- B28 5V/0.6A isolated DC-DC converter, Omron S82S-7305
- B29 5V/0.6A isolated DC-DC converter, Omron S82S-7305



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

Ebus 24V —
 Power contacts 5V 5V

24V
 5V
 Low Noise VCO w/ PLL
 B
 Low Noise VCO w/ PLL
 A

DC_2
 DC_3

Power budget:
 EL3104: 0.180 A (4x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (3x)
 EL2124: 0.130 A (5x)

 1.905 A

Power budget:
 EL3104: 0.180 A (2x)
 EL4134: 0.265 A (1x)
 EL1124: 0.090 A (1x)
 EL2124: 0.130 A (5x)

 1.365 A

Title EtherCAT Corner 6: Left Rail		
Size B	Number D1300745	Revision 1
Date: 10/21/2013	Sheet 2 of 4	
File: D:\Users\...\EtherCATCornerF2.SchDoc	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

Ebus 24V
Power contacts 5V

Title		EtherCAT Corner 6: Middle Rail	
Size	Number	Revision	
B	D1300745	1	
Date:	10/21/2013	Sheet 3 of 4	
File:	D:\Users\...\EtherCATCornerF3.SchDoc	Drawn By: Daniel Sigg	

1

2

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4

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1

2

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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 23 24

Ebus 24V
Power contacts 24V

Title			EtherCAT Corner 5: Right Rail		
Size	Number	Revision			
B	D1300745	1			
Date:	10/21/2013	Sheet 4 of 4			
File:	D:\Users\...\EtherCATCornerF4.SchDoc	Drawn By: Daniel Sigg			

1

2

3

4

5

6