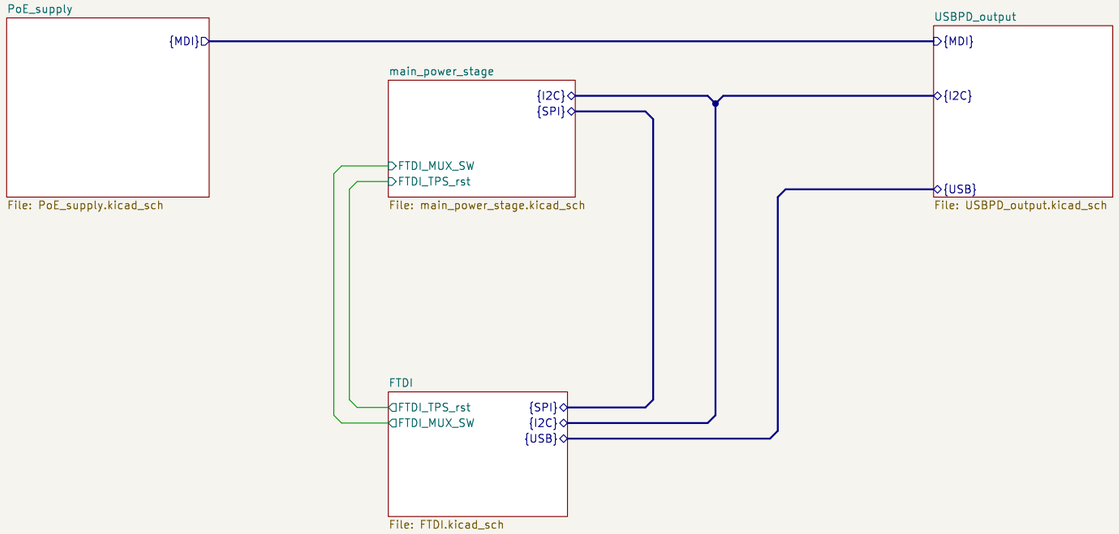


Antmicro ltd.

Sheet: /
File: antmicro-poe-to-usbc-pd-adapter.kicad_sch

Title: PoE to USBC PD adapter

Size: A3	Date: 2024-07-08	**Rev:**
KiCad E.D.A. kicad-cli 7.0.11+dfsg-1build4		Id: 1/5

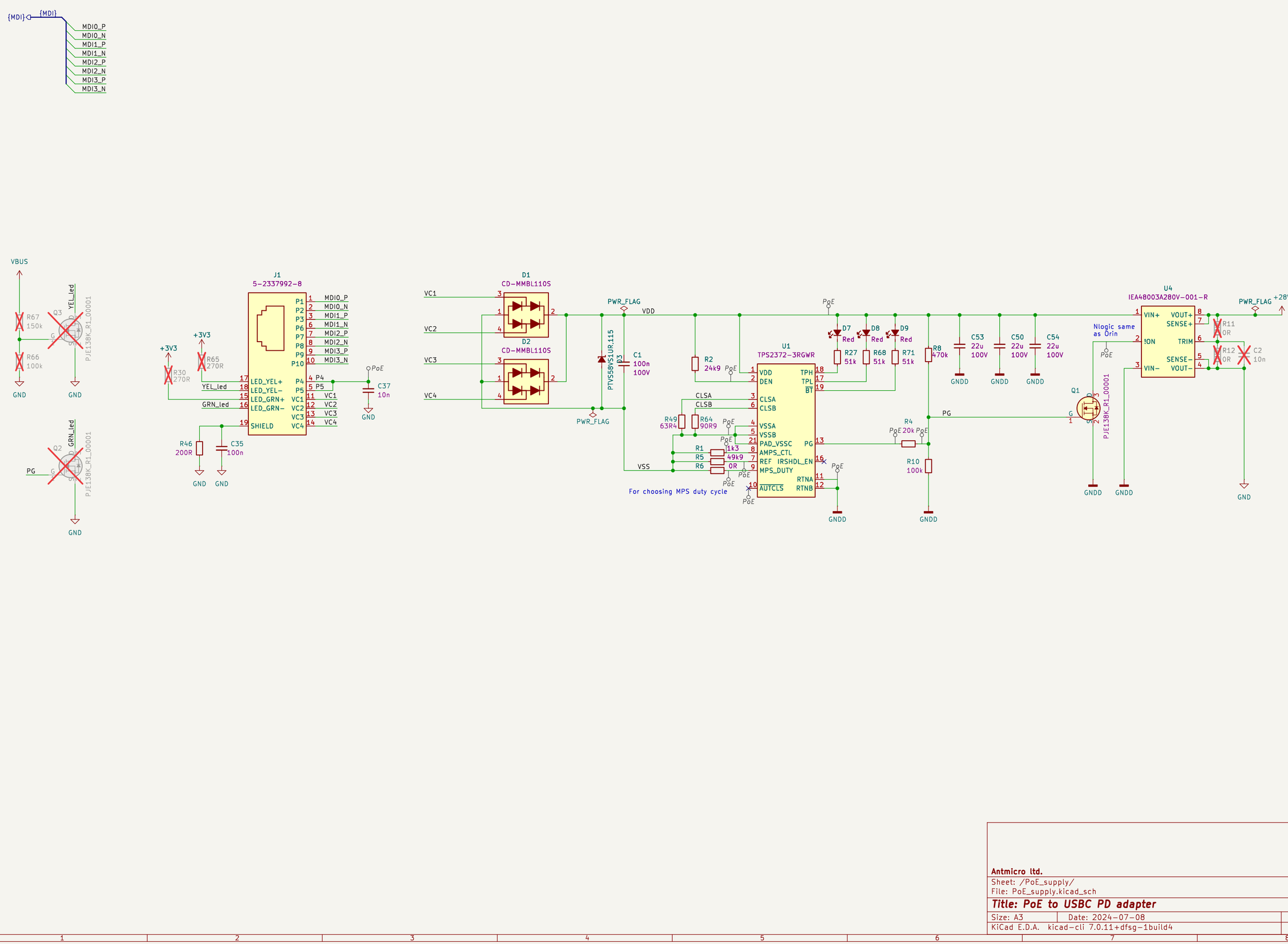
FTDI_MUX_SW
FTDI_TPS_rst
{USB}
D+
D−
{SPI}
FTDI_SDO
FTDI_SDI
FTDI_CS
FTDI_SCK
{I2C}
SDA
SCL
+3V3
C42 1n0
C45 1n0
C44 1n0
C43 1n0
GND
C29 4u7
Vcore
FB3 600Z/0.5A
FB2 600Z/0.5A
PWR_FLAG
C11 4u7
C13 4u7
C14 100n
C30 100n
U5
FT4232H-56Q-REEL
VREGIN
VCCIO
VREGOUT
VPHY
VPLL
VCORE
D+
D−
RESET
EECS
EECLK
EEDATA
OSCI
OSCO
REF
TEST
GND
Y1
ABM8G-12.000MHZ-18-D2Y-T
12 MHz
C12 18p
C31 18p
R19 12k
R20 1k
R22 4k7
R23 4k7
R21 0R
WP1
TP1
R53 0R
R54 0R
SCL
SDA
ADBUS0
ADBUS1
ADBUS2
ADBUS3
ADBUS4
ADBUS5
ADBUS6
ADBUS7
BDBUS0 FTDI_SCK
BDBUS1 FTDI_SDO
BDBUS2 FTDI_SDI
BDBUS3 FTDI_CS
BDBUS4
BDBUS5
BDBUS6
BDBUS7
CDBUS0
CDBUS1 FTDI_MUX_SW after reset RTS#
CDBUS2
CDBUS3 FTDI_TPS_rst after reset dtr#
CDBUS4
CDBUS5
CDBUS6
CDBUS7
DDBUS0
DDBUS1
DDBUS2
DDBUS3
DDBUS4
DDBUS5
DDBUS6
DDBUS7
PWREN
SUSPEND

Antmicro ltd.

Sheet: /FTDI/
File: FTDI.kicad_sch

Title: PoE to USBC PD adapter

Size: A3	Date: 2024-07-08	**Rev:**
KiCad E.D.A. kicad-cli 7.0.11+dfsg-1build4		Id: 5/5



Antmicro ltd.	
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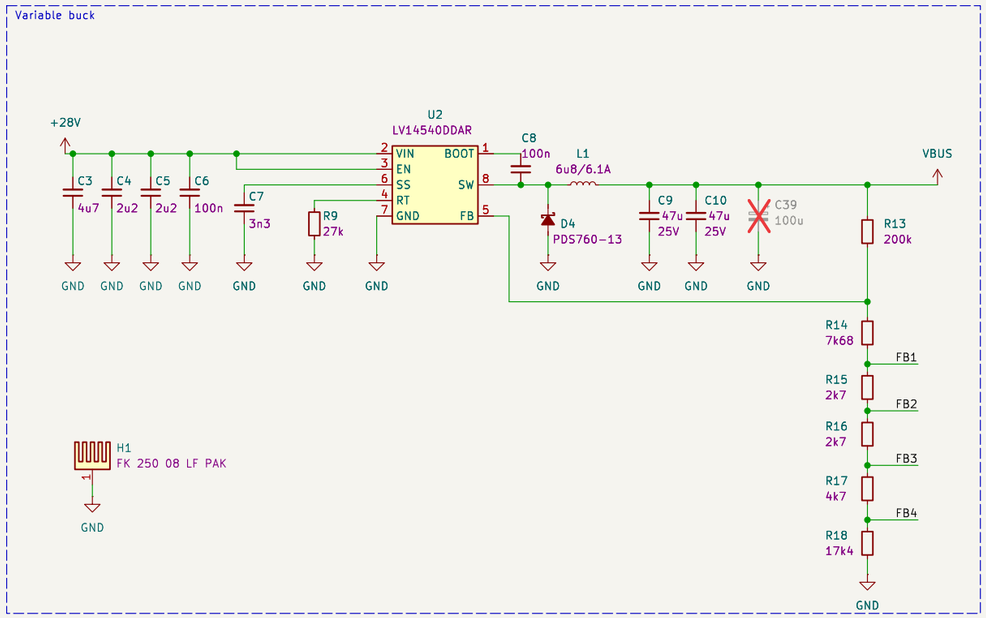
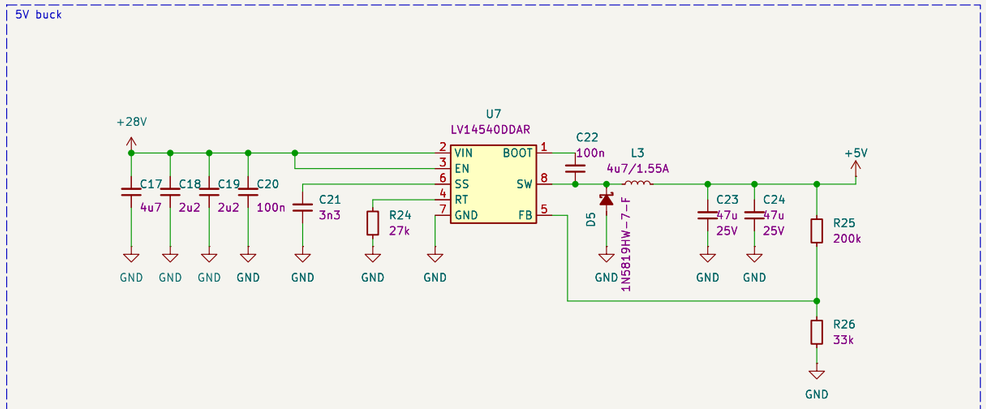
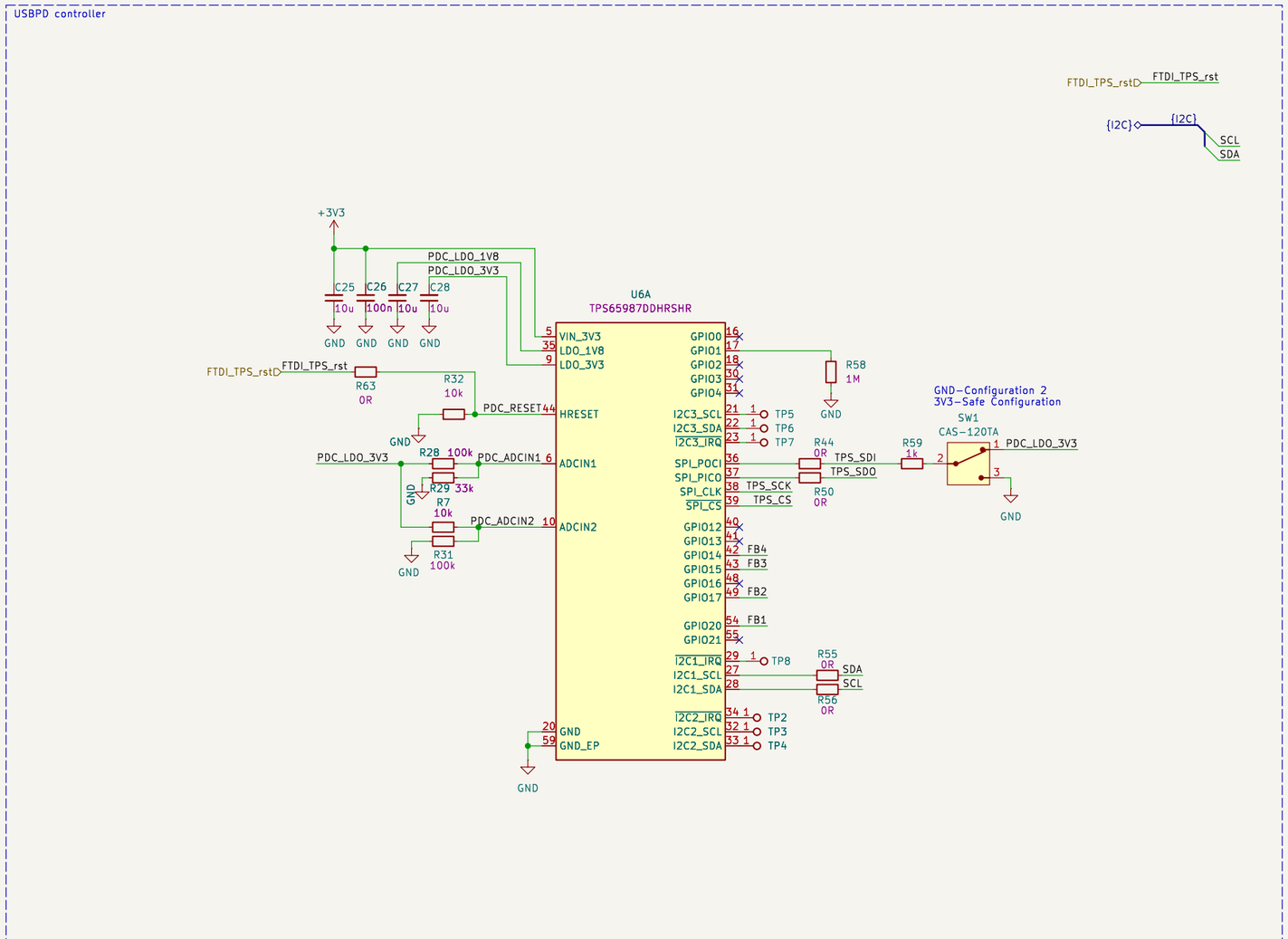
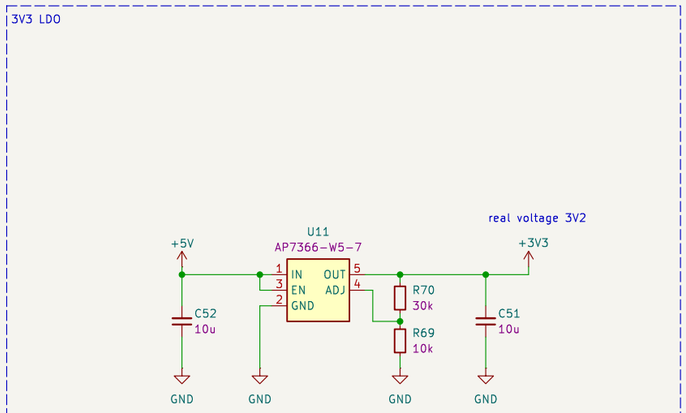
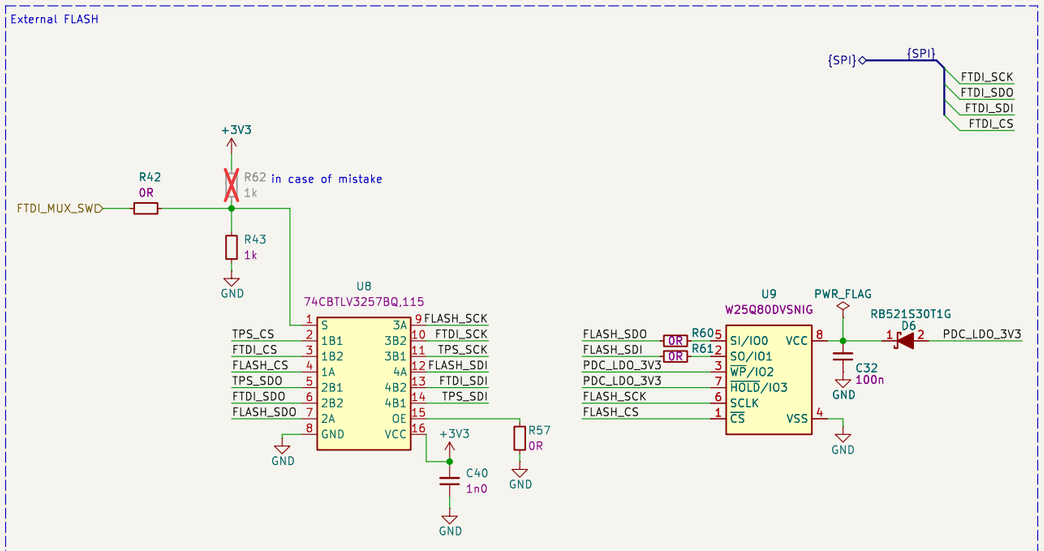
File: PoE_supply.kicad_sch	
Title: PoE to USBC PD adapter	
Size: A3	Date: 2024-07-08
KiCad E.D.A. kicad-cli 7.0.11+dfsg-1build4	**Rev:** Id: 8/5

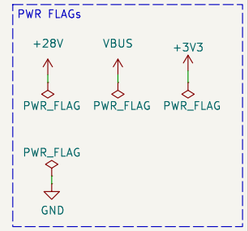












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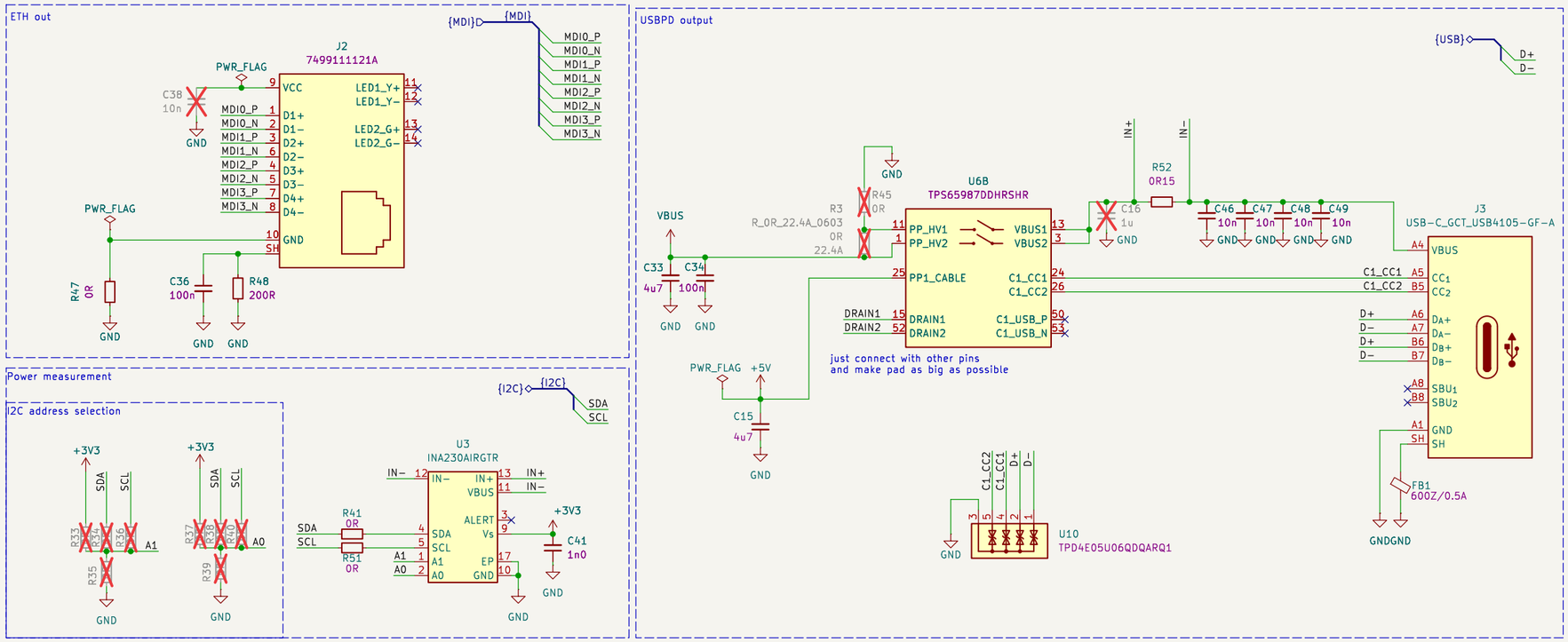
Sheet: /main_power_stage/
File: main_power_stage.kicad_sch

Title: PoE to USBC PD adapter

Size: A3	Date: 2024-07-08	**Rev:**
KiCad E.D.A. kicad-cli 7.0.11+dfsg-1build4		Id: 10/5



Antmicro ltd.		
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File: USBPD_output.kicad_sch		
Title: PoE to USBC PD adapter		
Size: A3	Date: 2024−07−08	**Rev:**
KiCad E.D.A. kicad−cli 7.0.11+dfsg−1build4		Id: 10/5