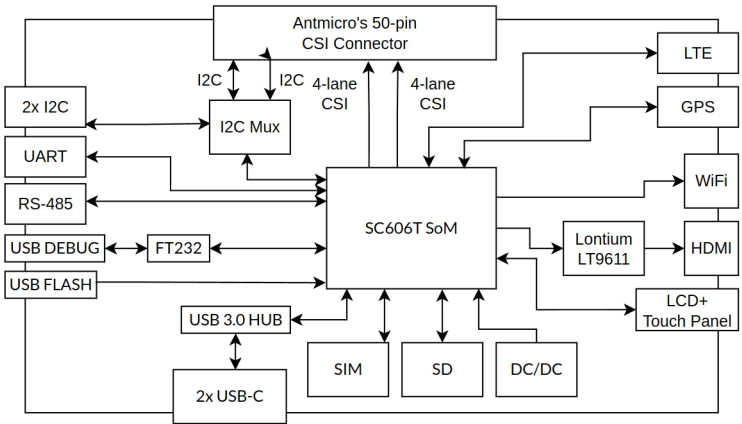


SC606T Baseboard



MP1  
PCB\_Spacer\_M2  
9774030243R  
Würth Elektronik

MP3  
PCB\_Spacer\_M2  
9774030243R  
Würth Elektronik

Logo N1  
antmicro\_logo

Logo N2  
oshw\_logo

Sheet: SoM

File: som.sch

Sheet: power supply

File: power\_supply.sch

Sheet: display module

File: display\_module.sch

Sheet: serial\_and\_cameras\_interfaces

File: serial\_and\_cameras\_interfaces.sch

Sheet: USB\_flash\_debug

File: USB\_flash\_debug.sch

Sheet: USB\_HUB\_Connectors

File: USB\_HUB\_Connectors.sch

Sheet: peripherals

File: peripherals.sch

Sheet: USB-PD

File: USB-PD.sch

MP2  
PCB\_Spacer\_M2  
9774030243R  
Würth Elektronik

MP4  
PCB\_Spacer\_M2  
9774030243R  
Würth Elektronik



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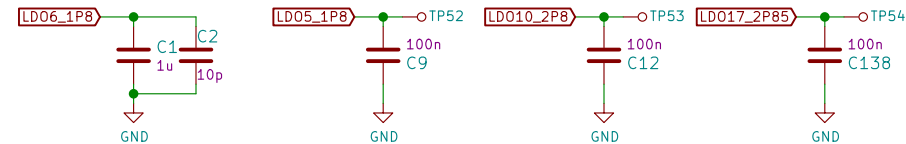
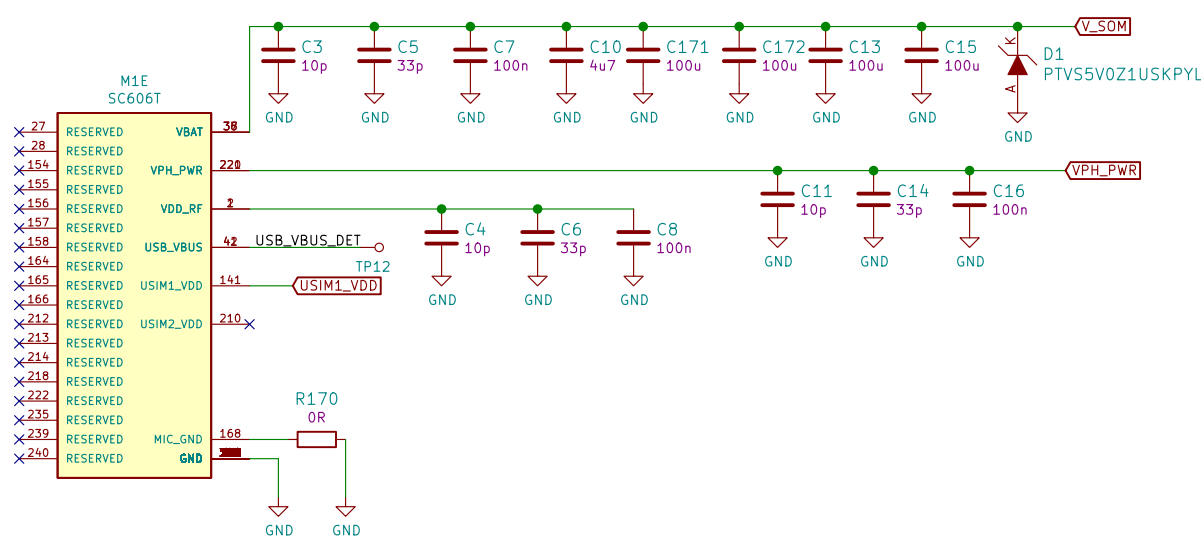
Sheet: /  
File: sc606-baseboard.sch

**Title: Snapdragon 625 Baseboard**

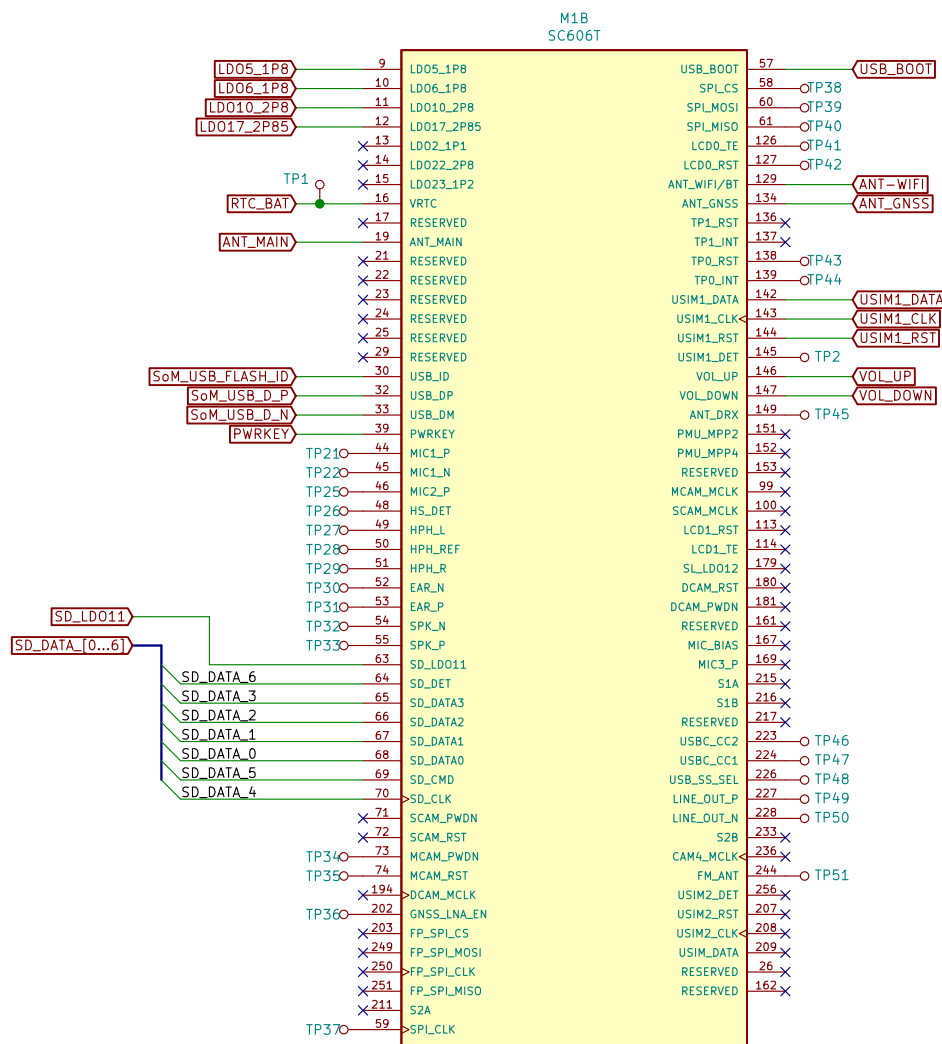
Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: 1.0.1  
Id: 1/9

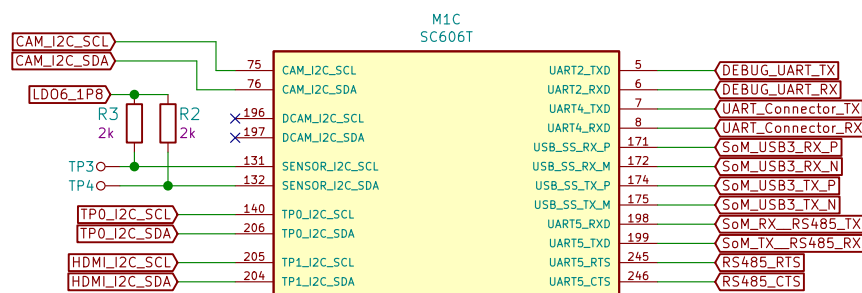
## Power



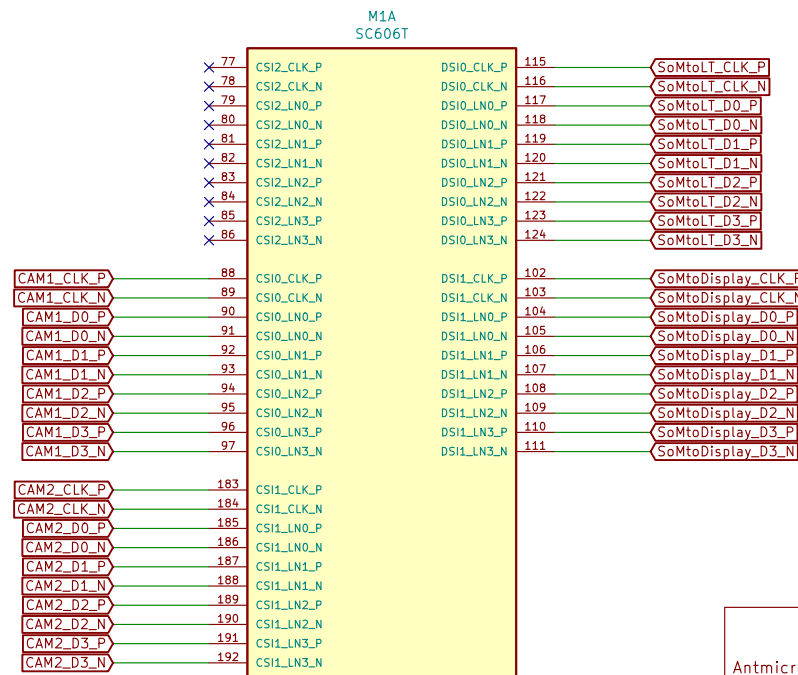
## MISC



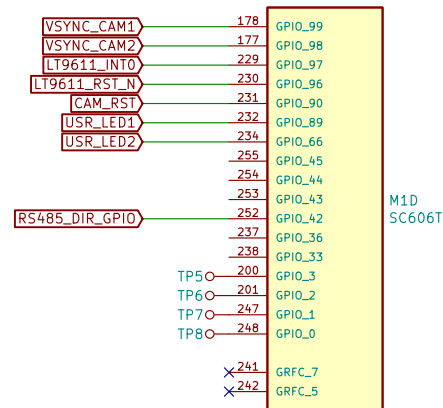
## I2C, USB SS, UART



## CSI, DSI



## GPIO



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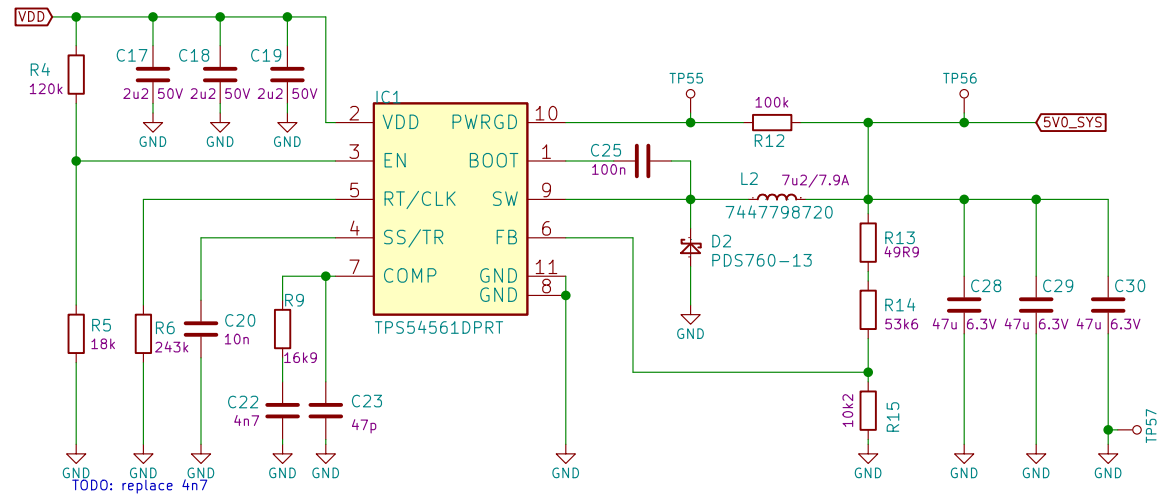
Sheet: /SoM/  
File: som.sch

**Title: Snapdragon 625 Baseboard**

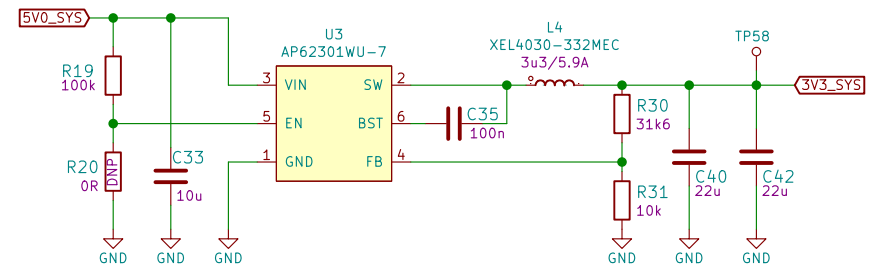
Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: 1.0.1  
Id: 2/9

### 5V Main DC/DC



### 5V to 3V3 DC/DC for system

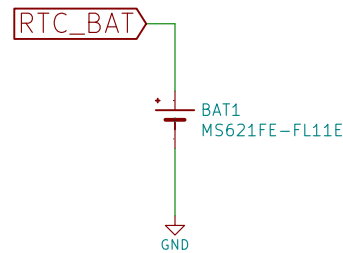


### 4V step down from 5V Buck

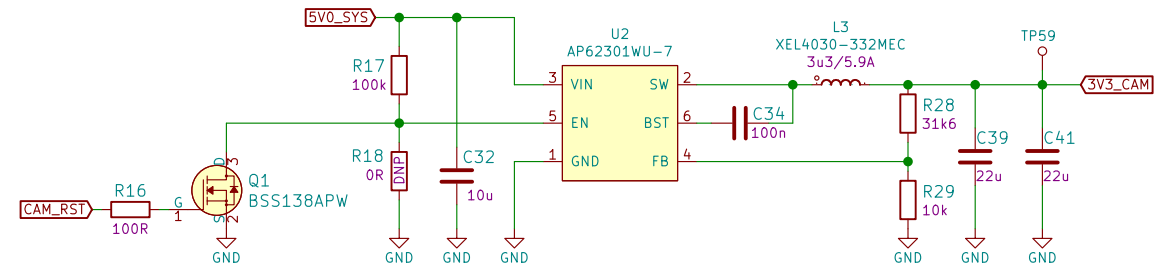
Info:  
Drop voltage on one diode: 0.46V  
Approx. output voltage: 3.62V  
With diodes temperature rise,  
voltage dropout will decrease and output voltage increase



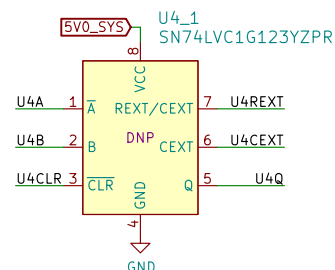
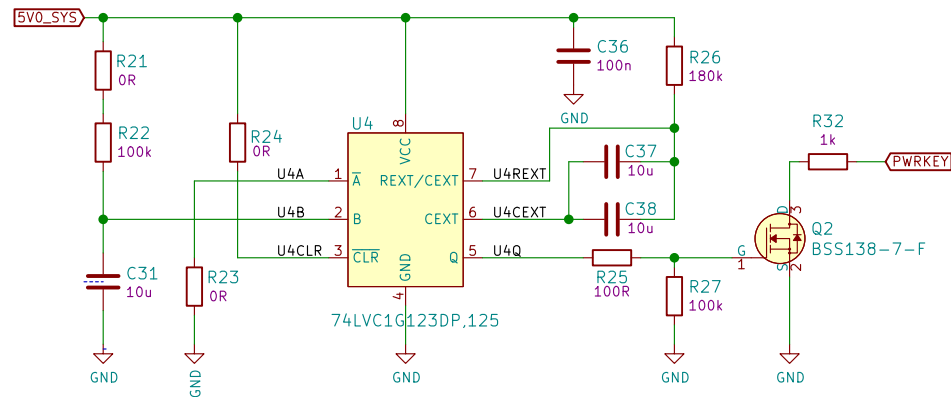
### RTC



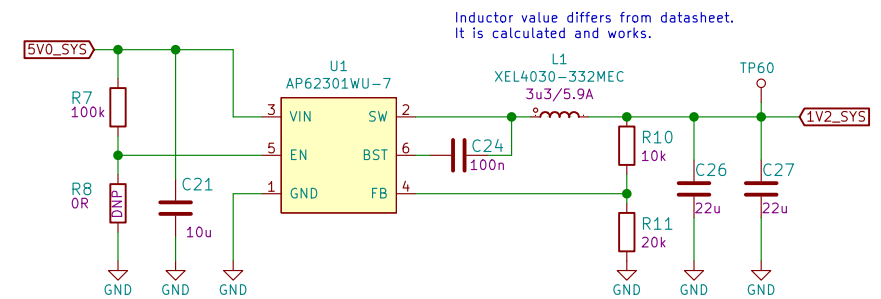
### 5V to 3V3 DC/DC for camera



### Auto Power-On



### 5V to 1V2 for Lontium9611



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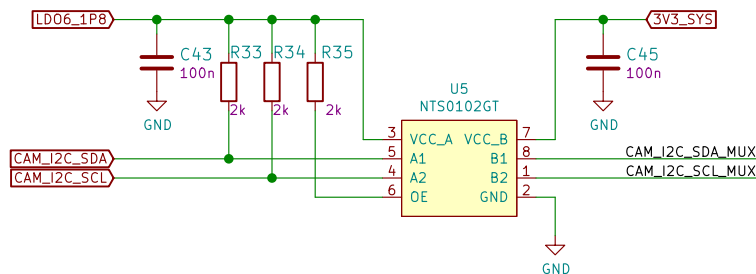
Sheet: /power supply/  
File: power\_supply.sch

**Title: Snapdragon 625 Baseboard**

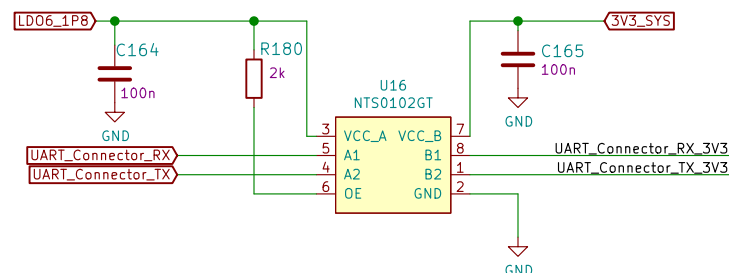
Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: 1.0.1  
Id: 3/9

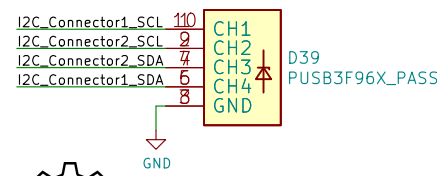
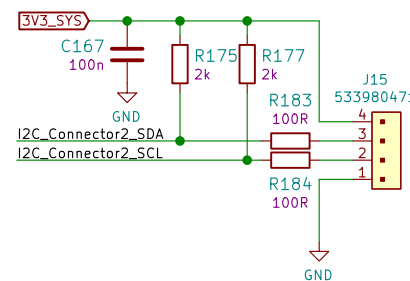
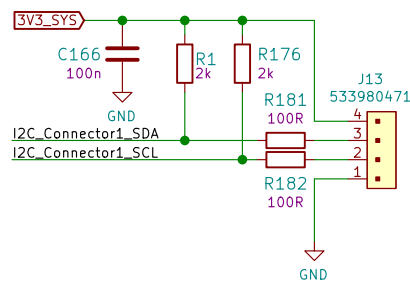
## SoM to I2C Mux voltage translating transceiver



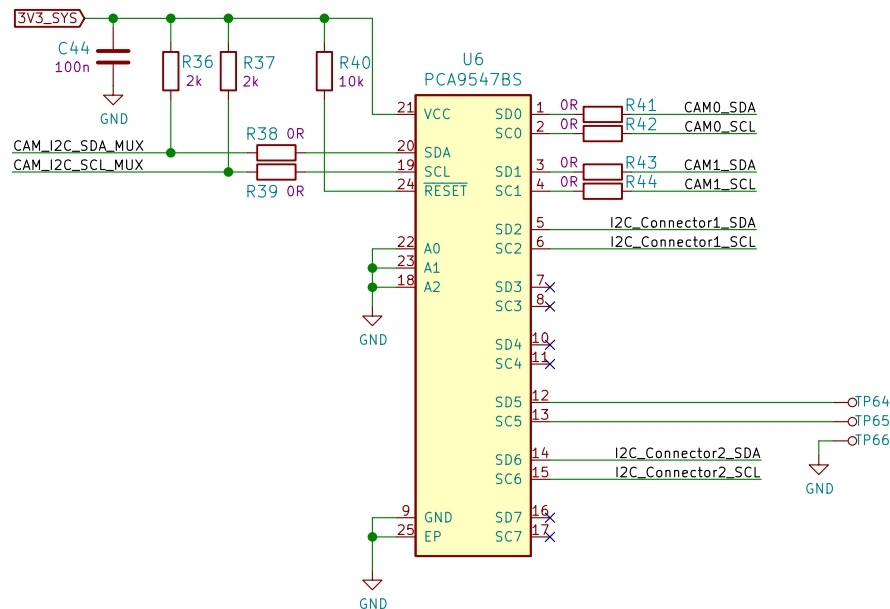
## UART connector voltage translating transceiver



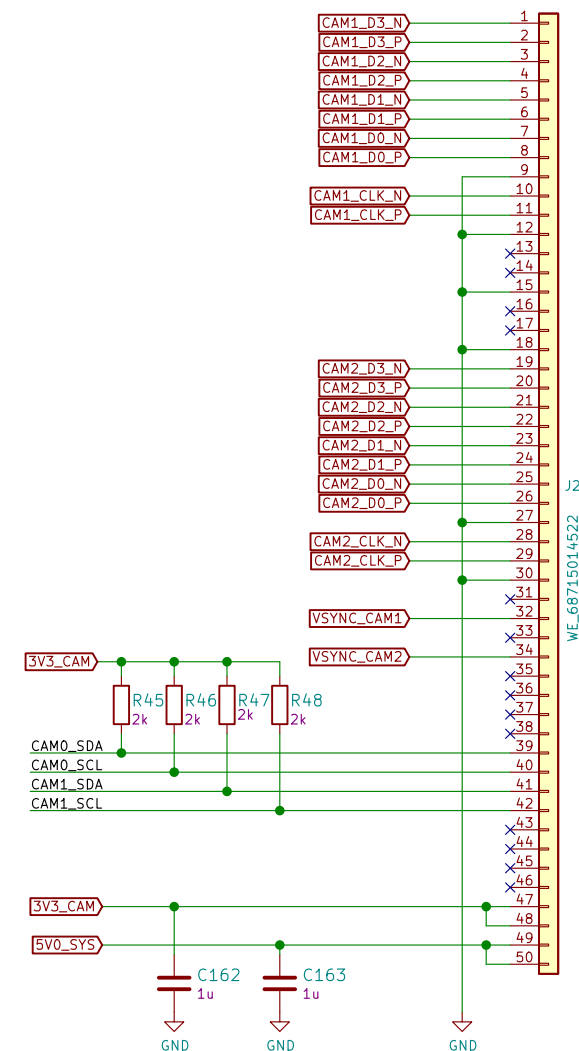
## I2C connectors



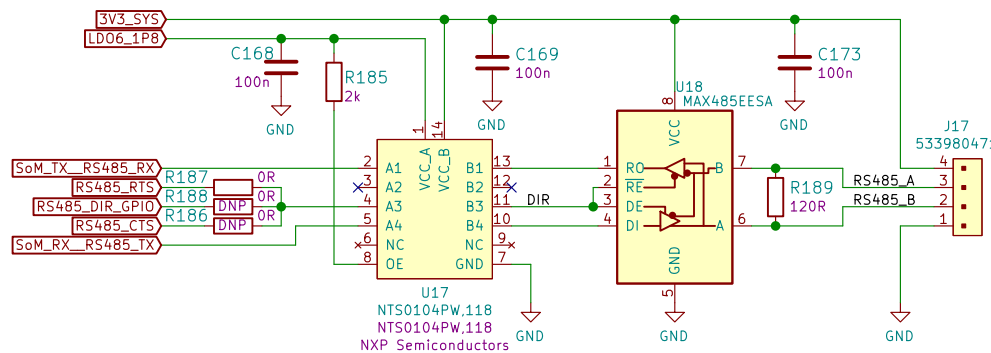
## Camera I2C multiplexer



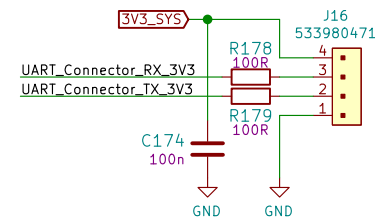
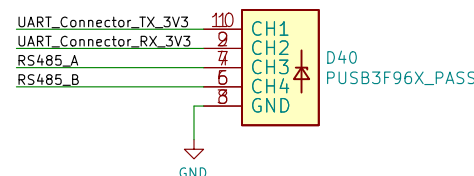
## Camera FFC



## RS485 connector and voltage translator



## UART connector



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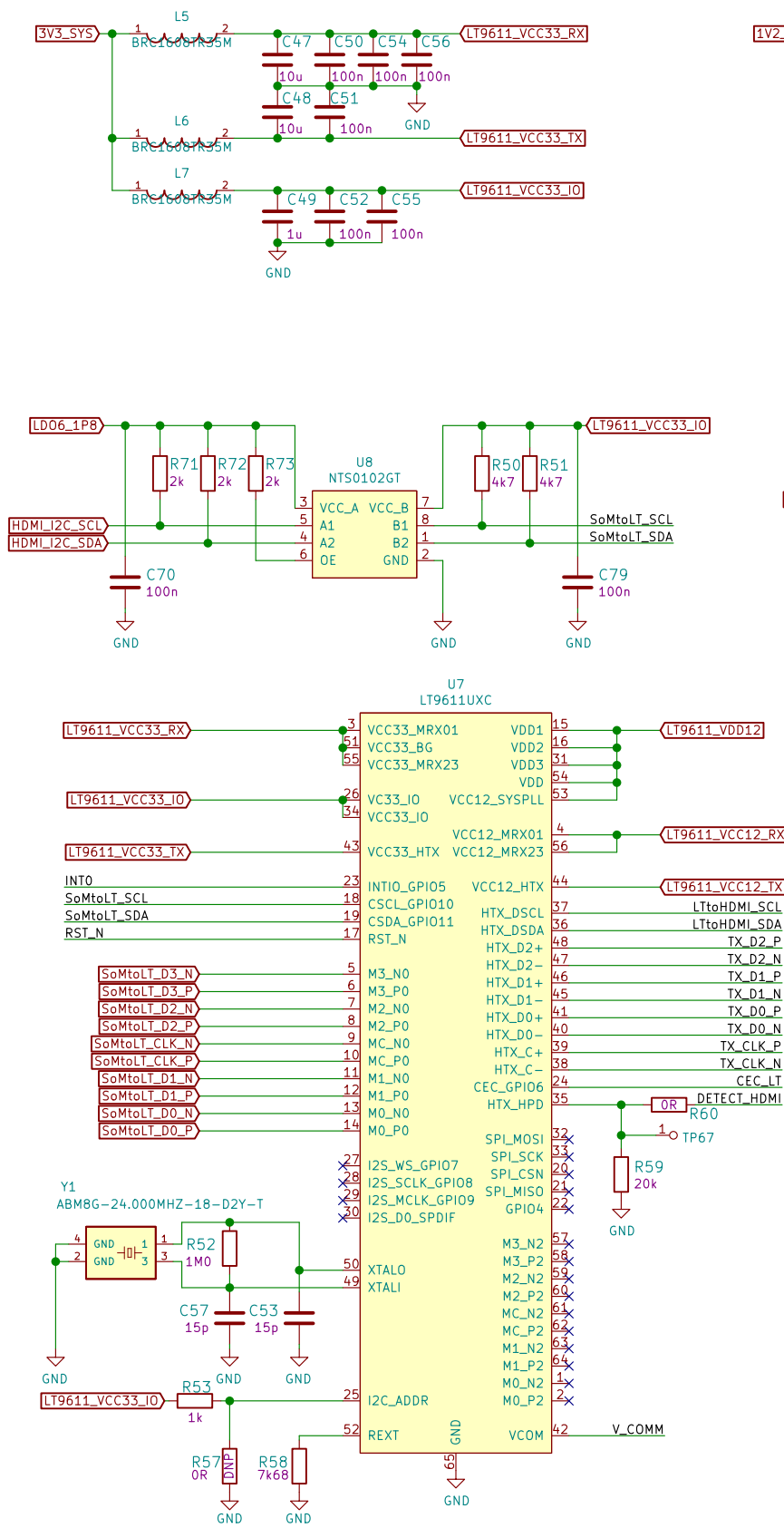
Sheet: /serial\_and\_cameras\_interfaces/  
File: serial\_and\_cameras\_interfaces.sch

**Title: Snapdragon 625 Baseboard**

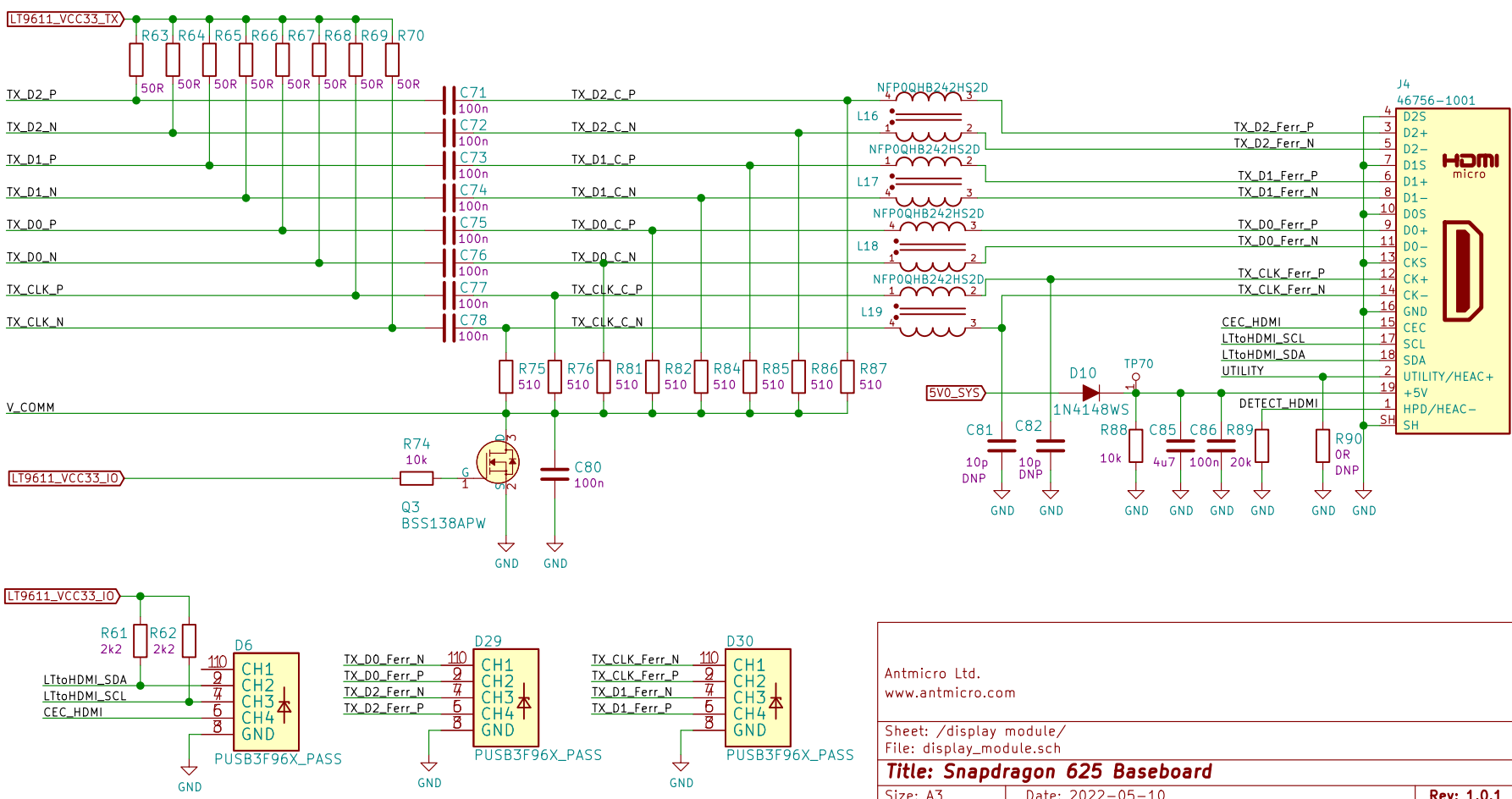
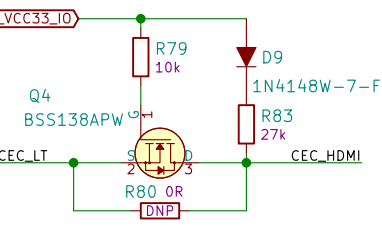
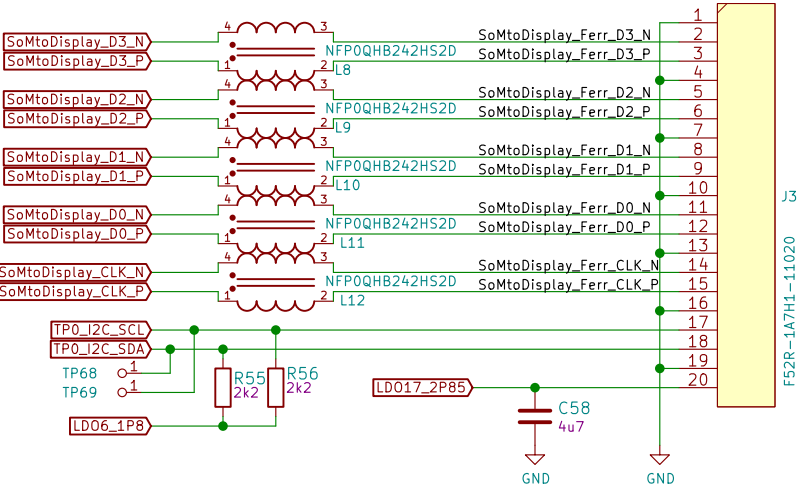
Size: A3 Date: 2022-05-10  
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Rev: 1.0.1  
Id: 4/9

## MIPI DSI to HDMI



## TP + LCD Interface



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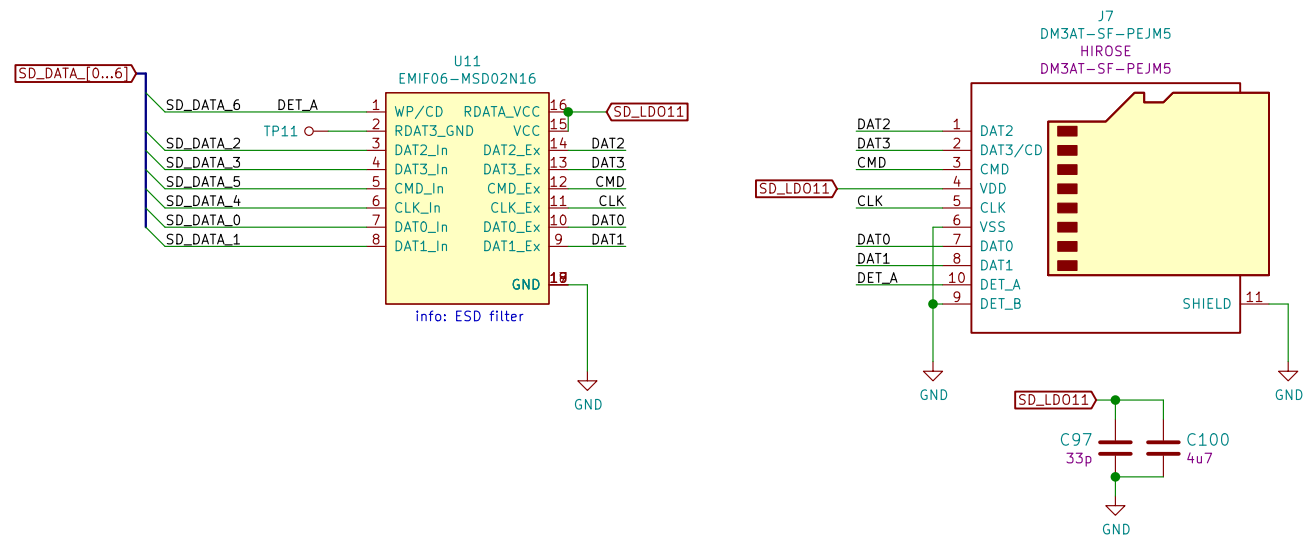
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File: display\_module.sch

**Title: Snapdragon 625 Baseboard**

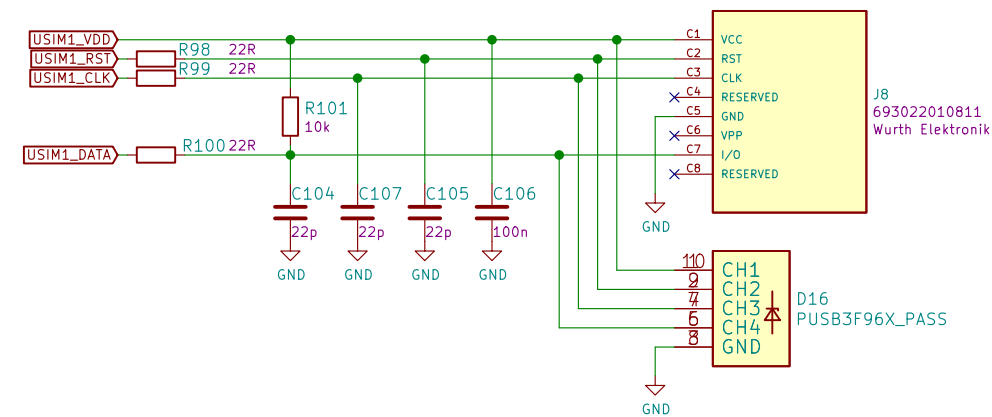
Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: 1.0.1  
Id: 5/9

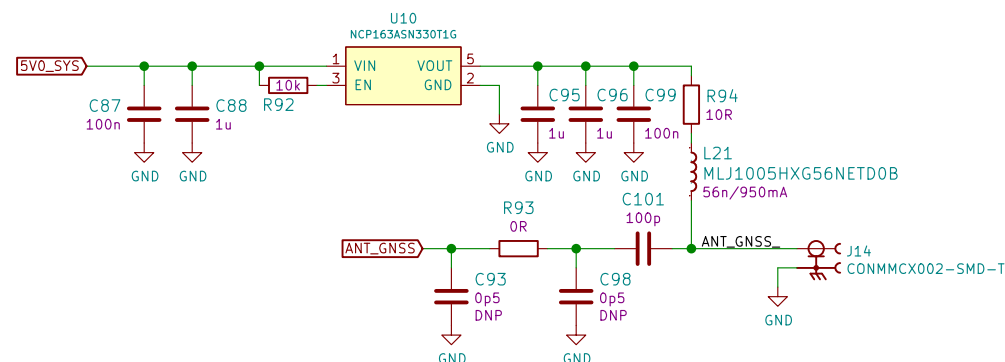
## Main SD card connector



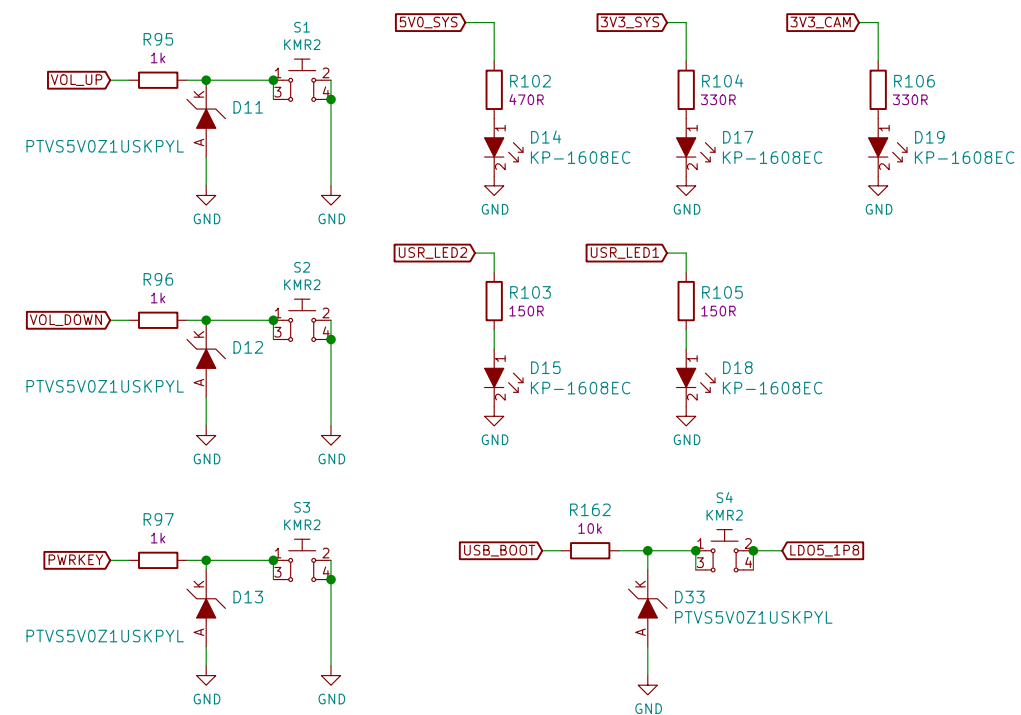
## Main micro SIM connector



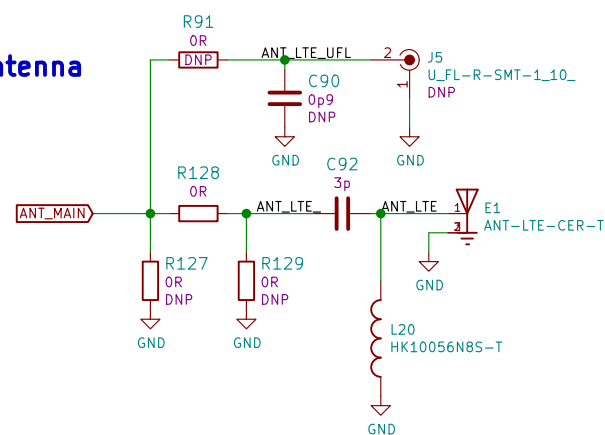
## GNSS Antenna



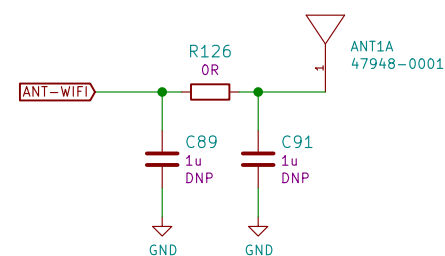
## SYSTEM BUTTONS AND LEDs



## Main Antenna



## Wi-Fi Antenna



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Sheet: /peripherals/  
File: peripherals.sch

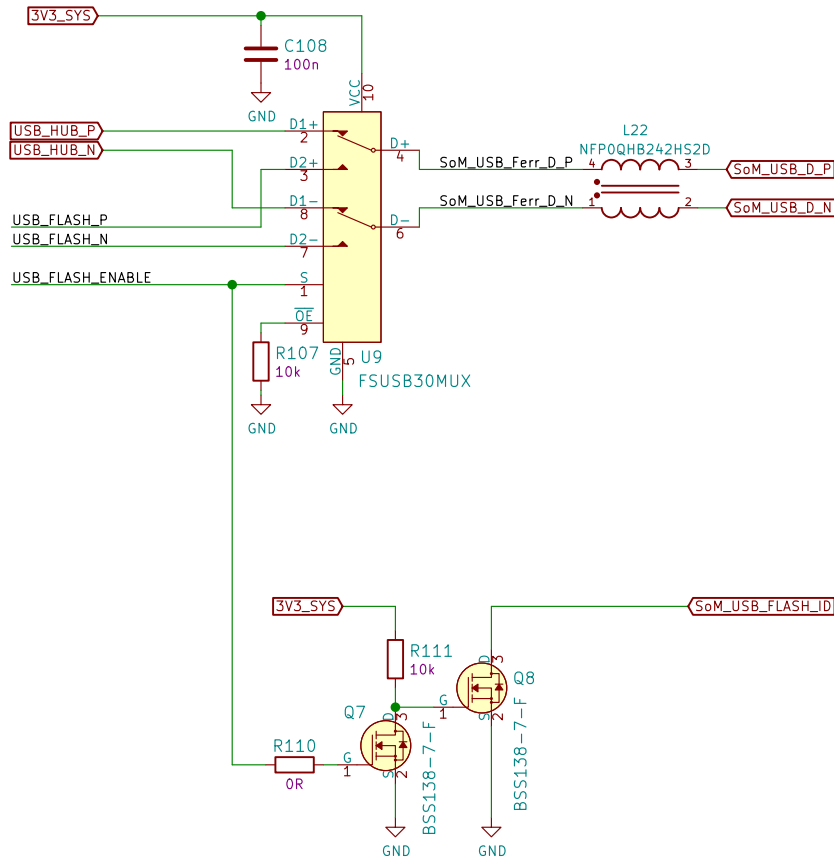
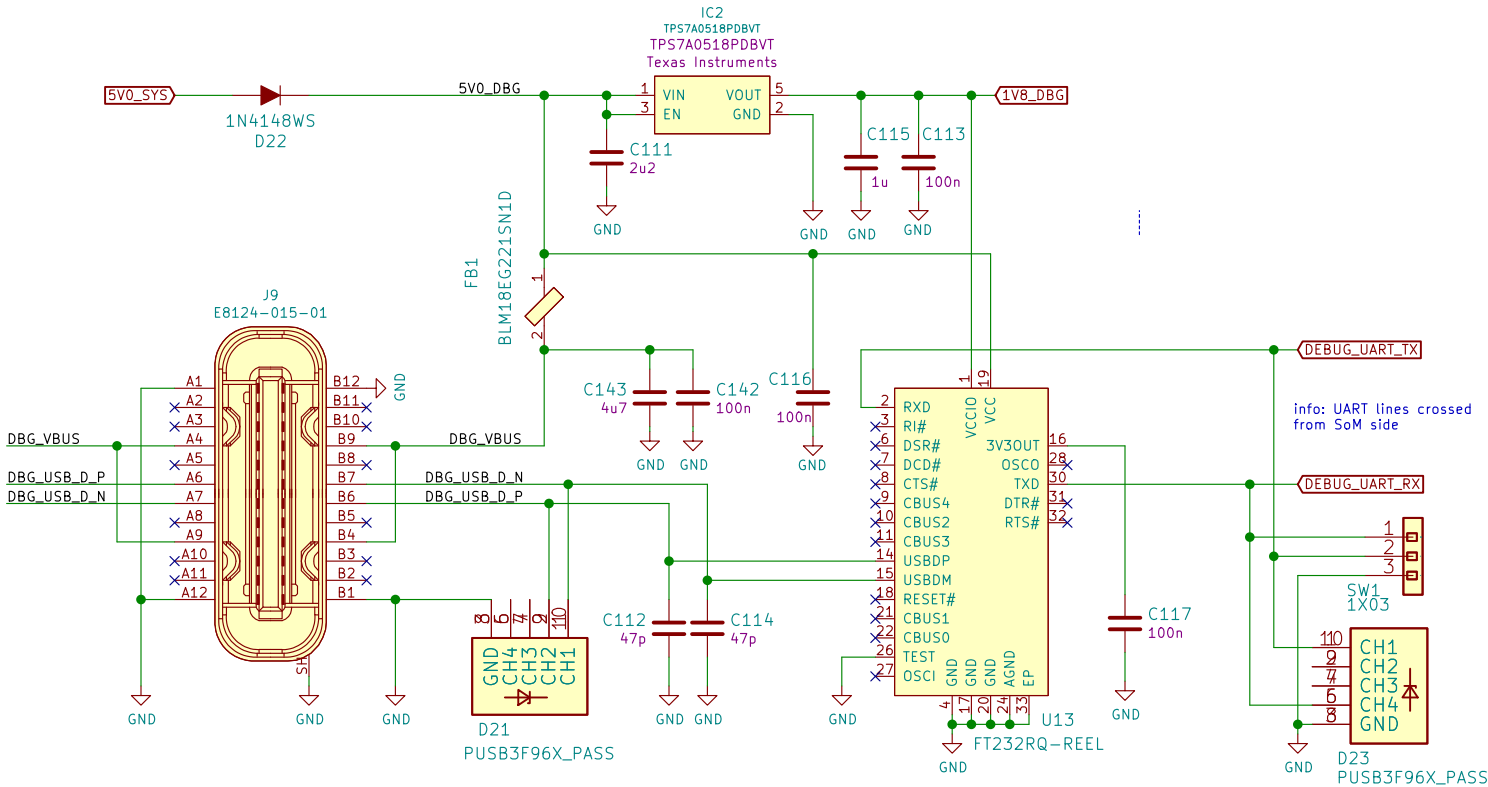
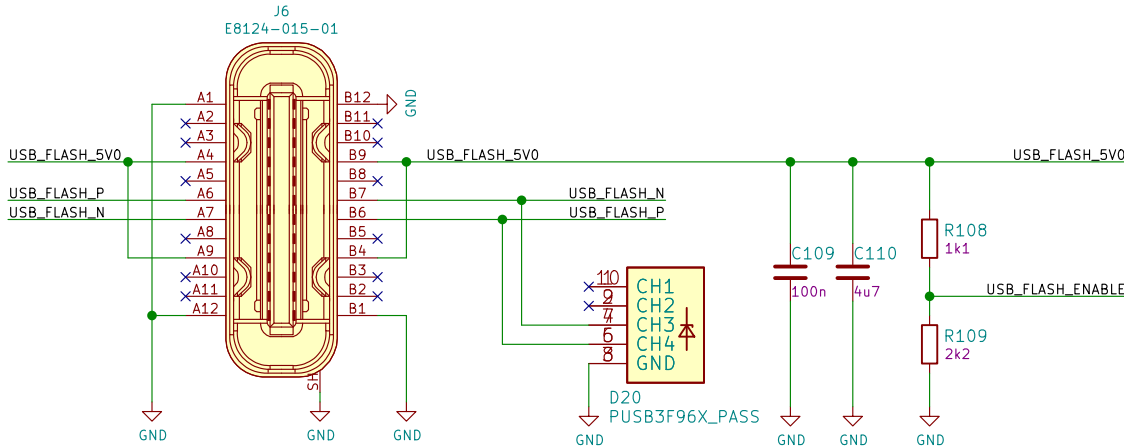
**Title: Snapdragon 625 Baseboard**

Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: 1.0.1  
Id: 6/9

USB SoM flashing IF

Debug UART



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Sheet: /USB\_flash\_debug/  
File: USB\_flash\_debug.sch

Title: **Snapdragon 625 Baseboard**

Size: A3 Date: 2022-05-10  
KiCad E.D.A. eeschema 5.1.9+dfsg1-1

Rev: **1.0.1**  
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