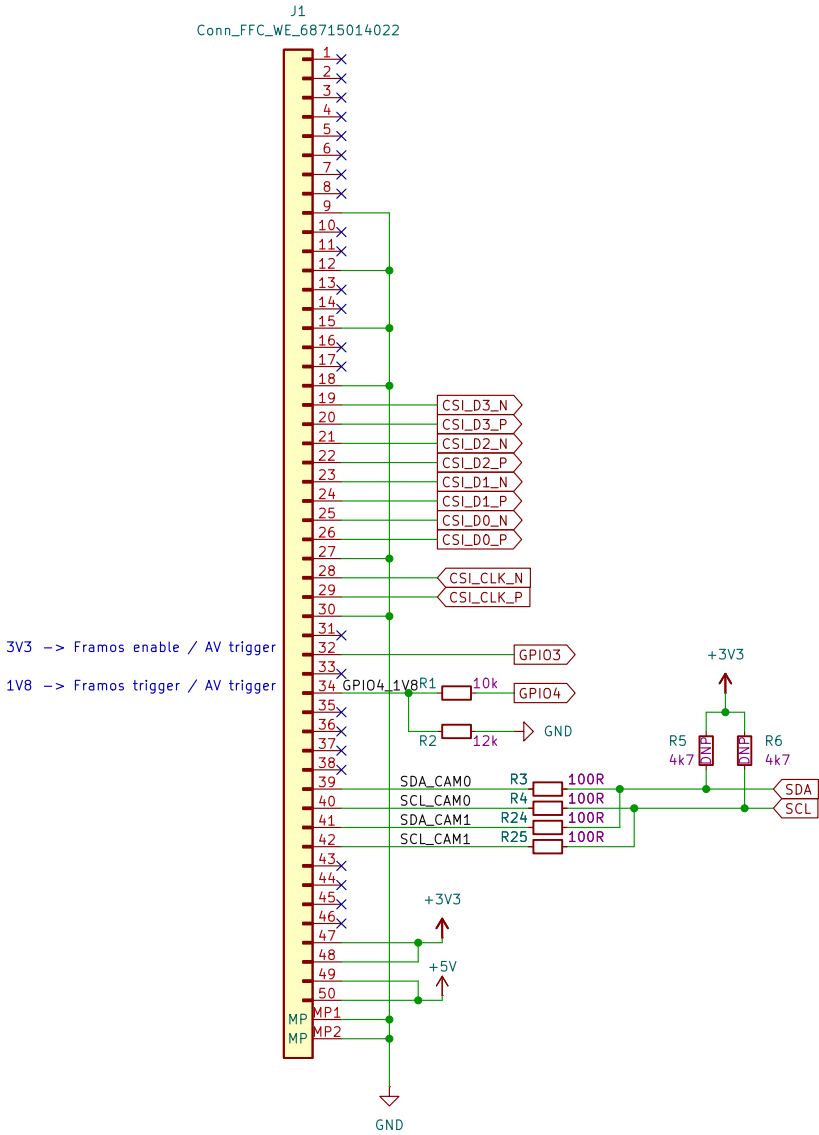
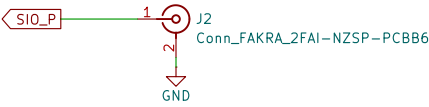


### FFC CSI Connector

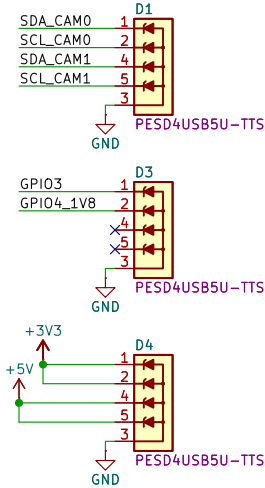


3V3 -> Framos enable / AV trigger  
1V8 -> Framos trigger / AV trigger

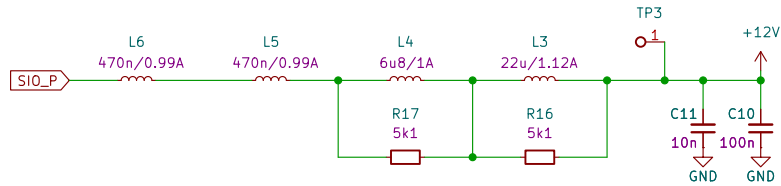
### FAKRA Connector



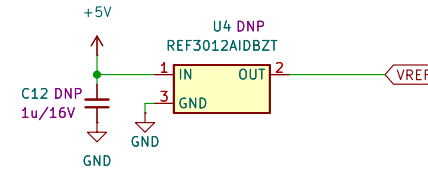
### TVS diodes



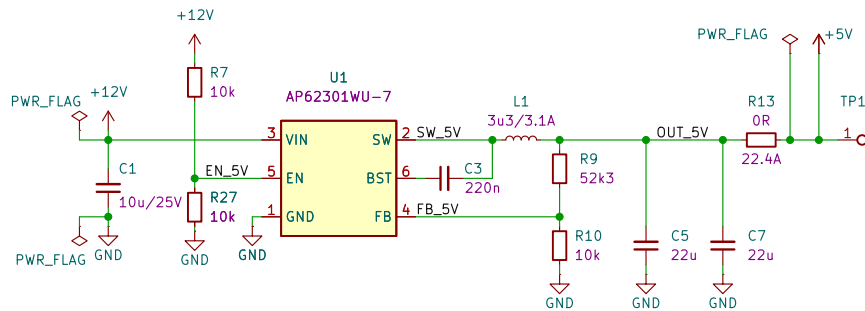
## PoC Filter



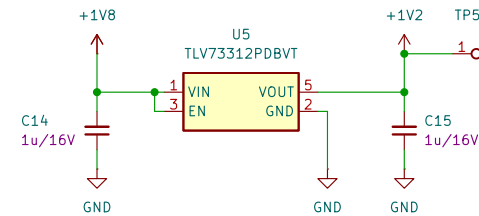
## 1V25 voltage reference DNP



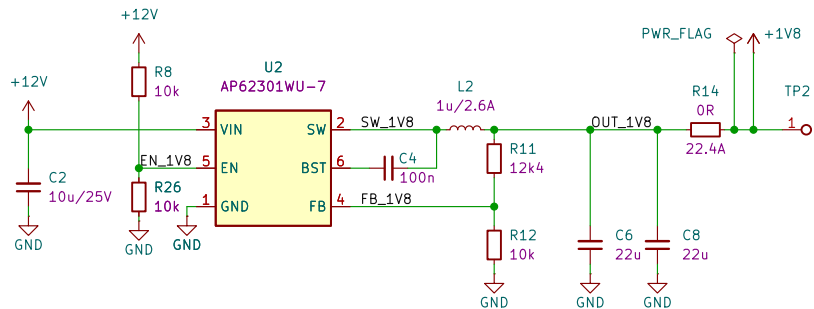
## 5V BUCK CONVERTER



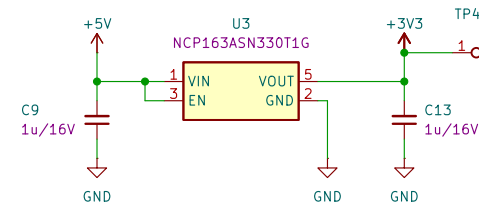
## 1V8 to 1V2 LDO 300mA



## 1V8 BUCK CONVERTER



## 5V to 3V3 LDO 250mA



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Sheet: /Supply/

File: supply.kicad\_sch

**Title: GSML Serializer**

Size: A4 Date: 2024-01-03

KiCad E.D.A. eeschema 6.0.11+dfsg-1

**Rev: 1.0.0**

Id: 3/4

### Crystal

Cinx1 = 3 pF (from MAX96724 data sheet)  
Ctrace = 2 pF (estimated)  
Cinx2 = 1 pF (from MAX96724 data sheet)  
CL = 18 pF (from crystal data sheet)  
Cx1total = Cinx1 + CL1 + Ctrace  
Cx2total = Cinx2 + CL2 + Ctrace  
CL = (Cx1total \* Cx2total) / (Cx1total + Cx2total)

CL1 = 33 pF  
CL2 = 33 pF  
CX1total = 38 pF  
Cx2total = 36 pF  
CL = 18.5 pF (meets the requirements)

Crystal and crystal load capacitors as close as possible to X1 X2 pins

### Config pins

CFG0 – I2C address config  
R1 = OPEN, R2 = 10k  
address = 0x80

CFG1 – GMSL mode config  
R1 = OPEN, R2 = 10k  
mode = COAX GMSL2 6Gbps

