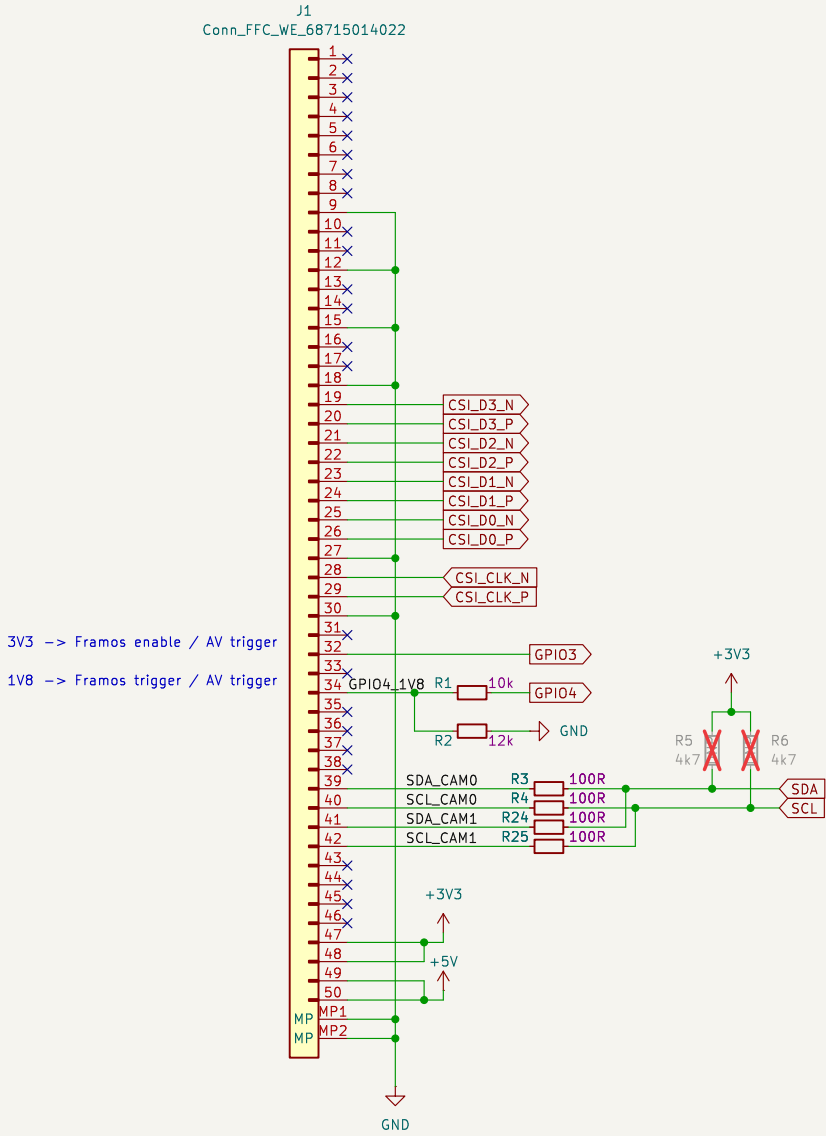


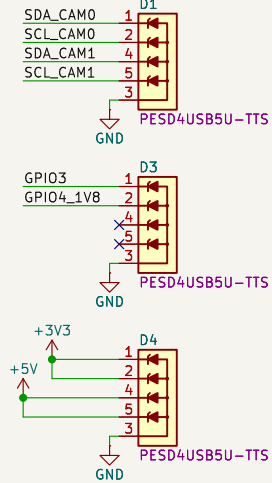
FFC CSI Connector



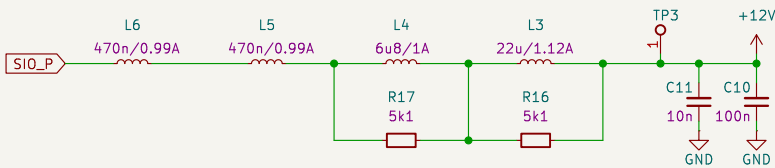
FAKRA Connector



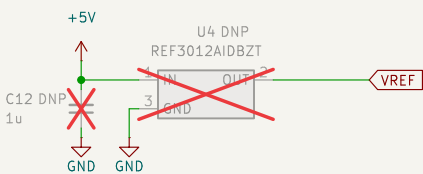
TVS diodes



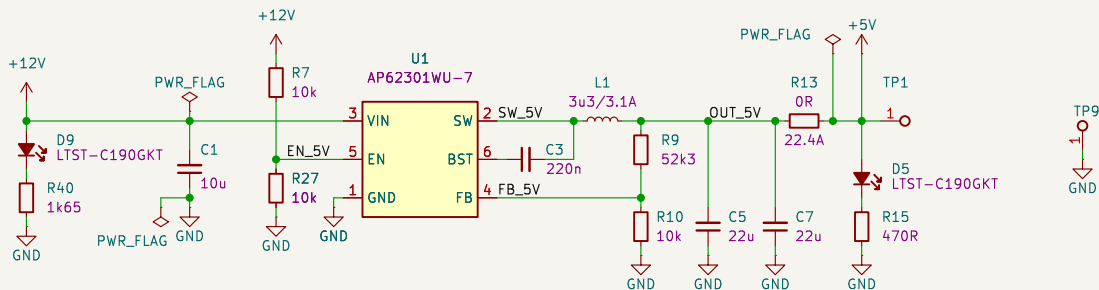
PoC Filter



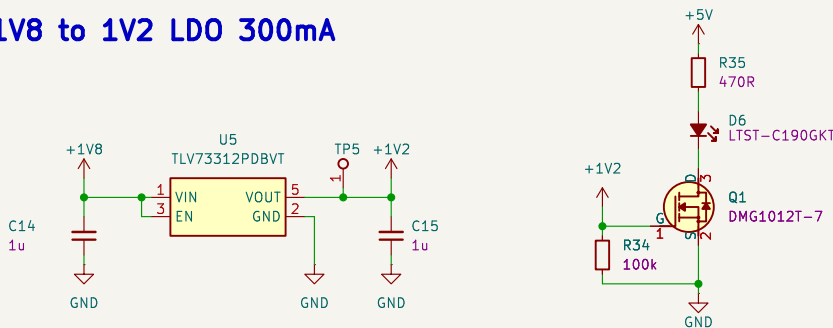
1V25 voltage reference DNP



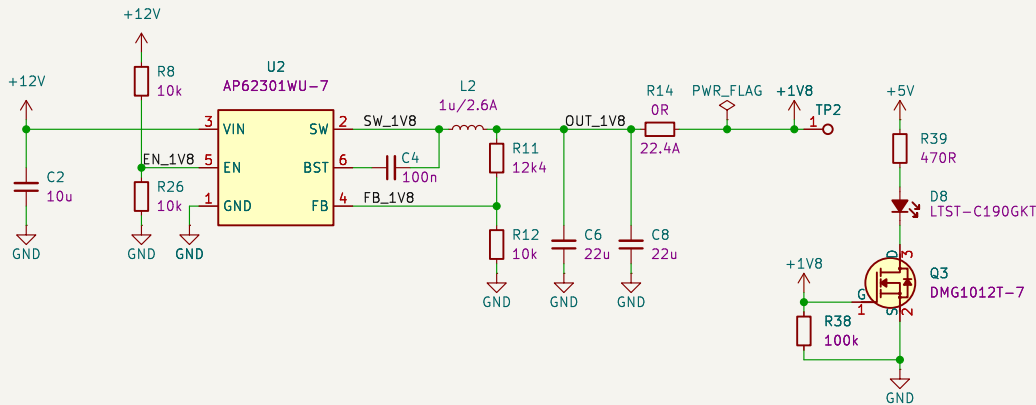
5V BUCK CONVERTER



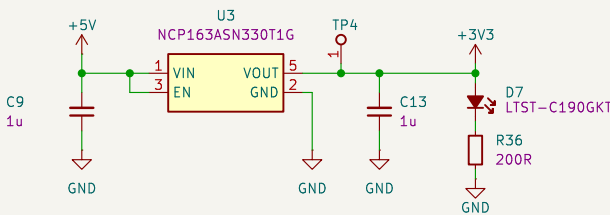
1V8 to 1V2 LDO 300mA



1V8 BUCK CONVERTER



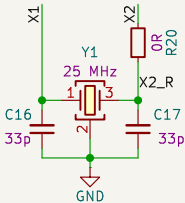
5V to 3V3 LDO 250mA



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



Serializer

