Pufferfish - Power Management Board v0.1

LOGO

| 1 | L | C | | | |
|----|-----|-----|-----|-----|----|
| ΙN | put | Cor | ıne | CTO | rs |

Sheet: Input Connectors File: Inputs.sch

LTC4221 Design

Sheet: LTC4221 File: LTC4221.sch

Interface Sheet: Interface

File: Interface.sch

LEDs and Debug

Sheet: LEDs and Debug File: LEDs.sch

5V Buck

Sheet: 5V Buck File: 5V.sch

3.3V Buck

Sheet: 3.3V Buck File: 3v3.sch

Fiducials

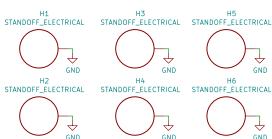














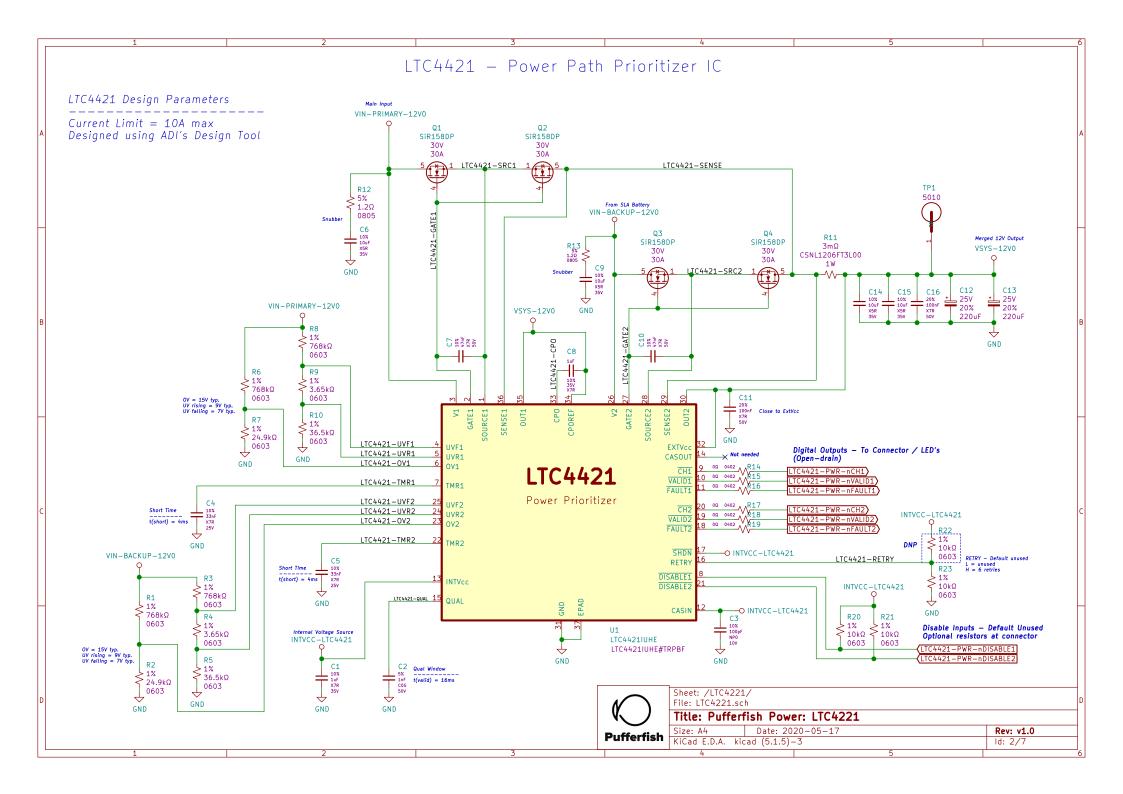


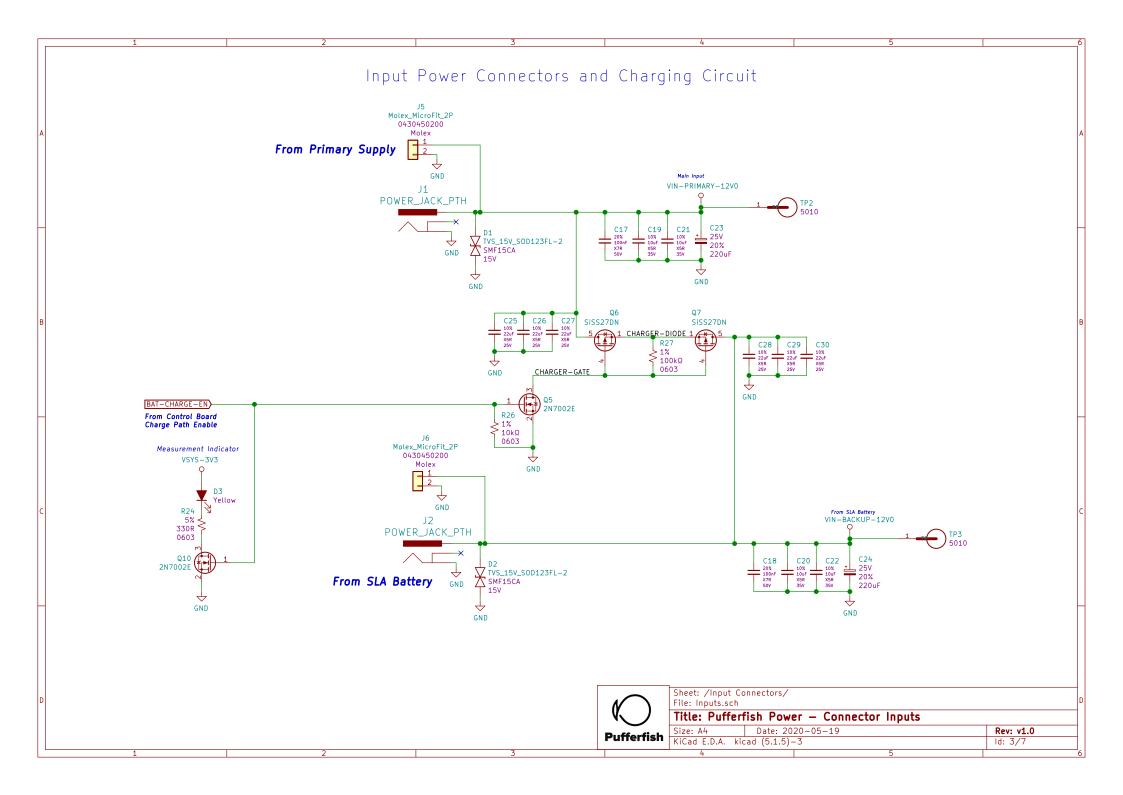


| Sheet: / | | | | | |
|-------------------------------|------------------|--|--|--|--|
| File: Pufferfish-Power-1.sch | | | | | |
| Title: Pufferfish Power - Top | | | | | |
| Size: A4 | Date: 2020-05-17 | | | | |
| KiCad E.D.A. kid | ad (5.1.5)-3 | | | | |

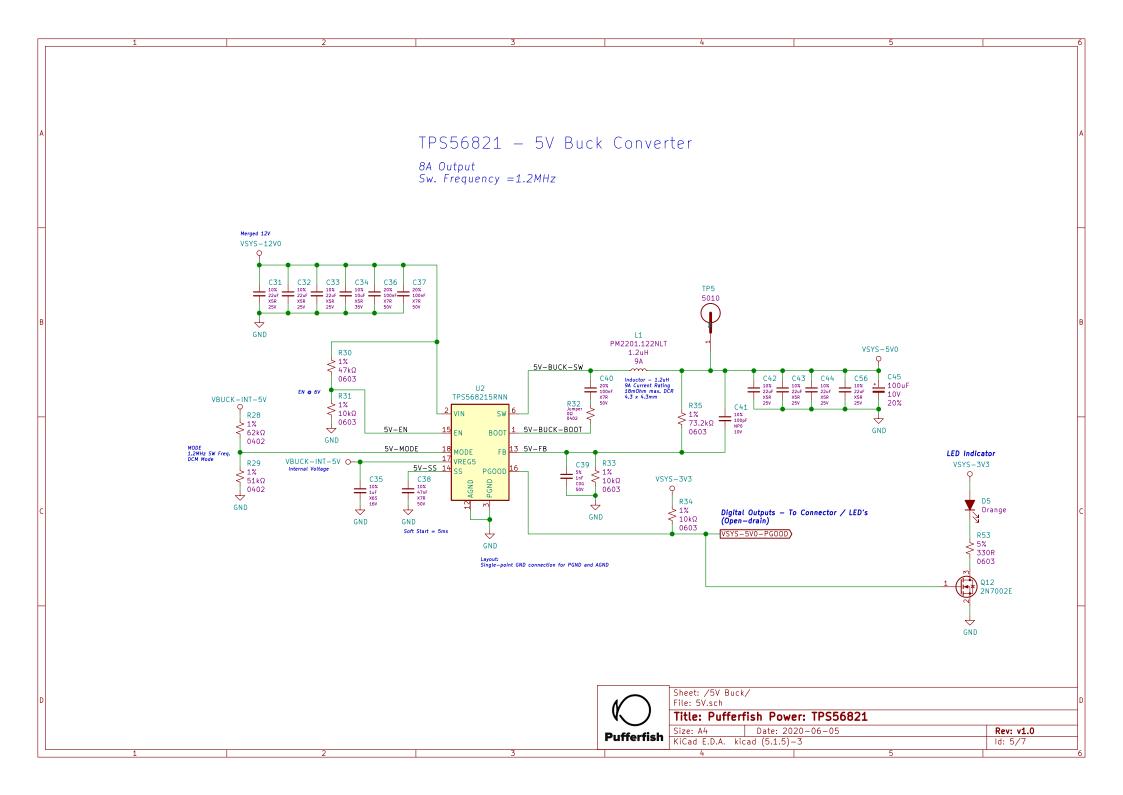
Rev: v1.0

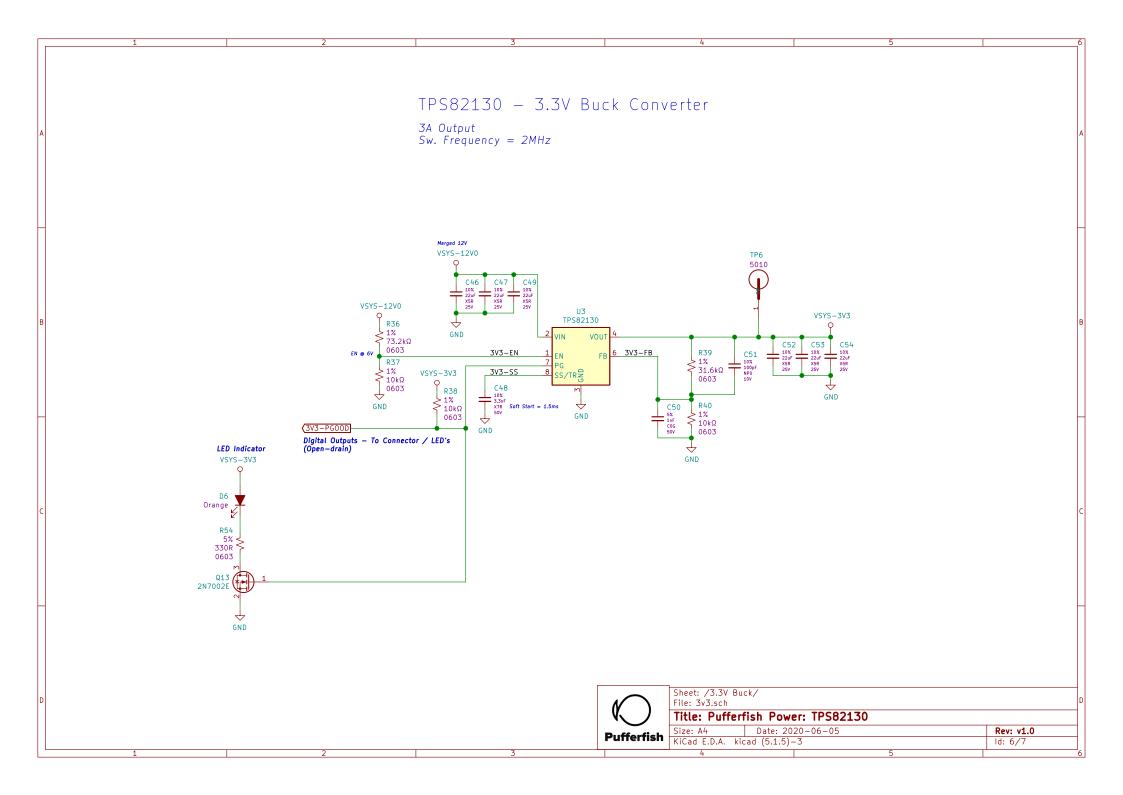
ld: 1/7





Control Interface VSYS-3V3 VSYS-3V3 R49 R52 R47 R50 1% 10kΩ 0603 J3 5103308-3 From LTC4421 LTC4421-PWR-nCH1 LTC4421-PWR-nFAULT2 From LTC4421 LTC4421-PWR-nCH2 LTC4421-PWR-nFAULT1 From Control LTC4421-PWR-nDISABLE1 Power Good from 5V Disable Inputs - Default Unused LTC4421-PWR-nDISABLE2 Power Good from 3.3V Pulled up on LTC4421 pg. BAT-CHARGE-EN LTC4421-PWR-nVALID1 BAT-MEAS-EN LTC4421-PWR-nVALID2 From Control Board Charge Path Enable From LTC4421 BAT-MEAS-ANALOG Pulled Down on Power Page GND GND From SLA Battery VIN-BACKUP-12V0 Q8 Measurement Indicator TP0610T VSYS-3V3 Analog Measurement - 1% 47kΩ Voltage Divider 0603 Yellow **Power Outputs** 5% 330R 0603 Merged 12V Output VSYS-12V0 Q11 2N7002E GND 🔷 VSYS-5V0O-Screw_Terminal_01x05 VSYS-3V3O-D14 GND TVS_15V_SOD123FL-2 SMF15CA 15V Sheet: /Interface/ File: Interface.sch Title: Pufferfish Power: Interface Connectors Date: 2020-06-10 Rev: v1.0 **Pufferfish** KiCad E.D.A. kicad (5.1.5)-3 Id: 4/7





LED's and Debug VSYS-3V3 VSYS-3V3 VSYS-3V3 From LTC4421 From LTC4421 From LTC4421 Q16 TP0610T Q14 TP0610T LTC4421-PWR-nVALID1 Q18 LTC4421-PWR-nFAULT1 LTC4421-PWR-nCH1 TP0610T D12 Blue R58 5% 330R 0603 R55 5% 330R 0603 R60 5% 330R 0603 GND GND VSYS-3V3 VSYS-3V3 VSYS-3V3 From LTC4421 From LTC4421 From LTC4421 Q15 TP0610T Q17 TP0610T Q19 TP0610T LTC4421-PWR-nFAULT2 TC4421-PWR-nVALID2 LTC4421-PWR-nCH2 D11 Blue R56 5% 330R 0603 R57 5% 330R 0603 R59 5% 330R 0603 GND GND GND **Ground Test Points** 5019 Sheet: /LEDs and Debug/ GND File: LEDs.sch Title: Pufferfish Power: LED's and Debug Size: A4 Date: 2020-06-10 KiCad E.D.A. kicad (5.1.5)-3 **Rev: v1.0** Id: 7/7 **Pufferfish**