

Pufferfish – Power Management Board v0.1

Input Connectors

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

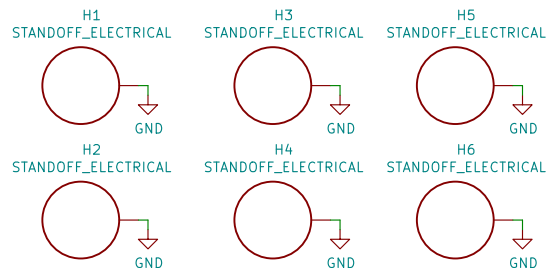
3.3V Buck

Sheet: 3.3V Buck

File: 3v3.sch

Fiducials

- FID1 Fiducial
- FID2 Fiducial
- FID3 Fiducial
- FID4 Fiducial
- FID5 Fiducial
- FID6 Fiducial



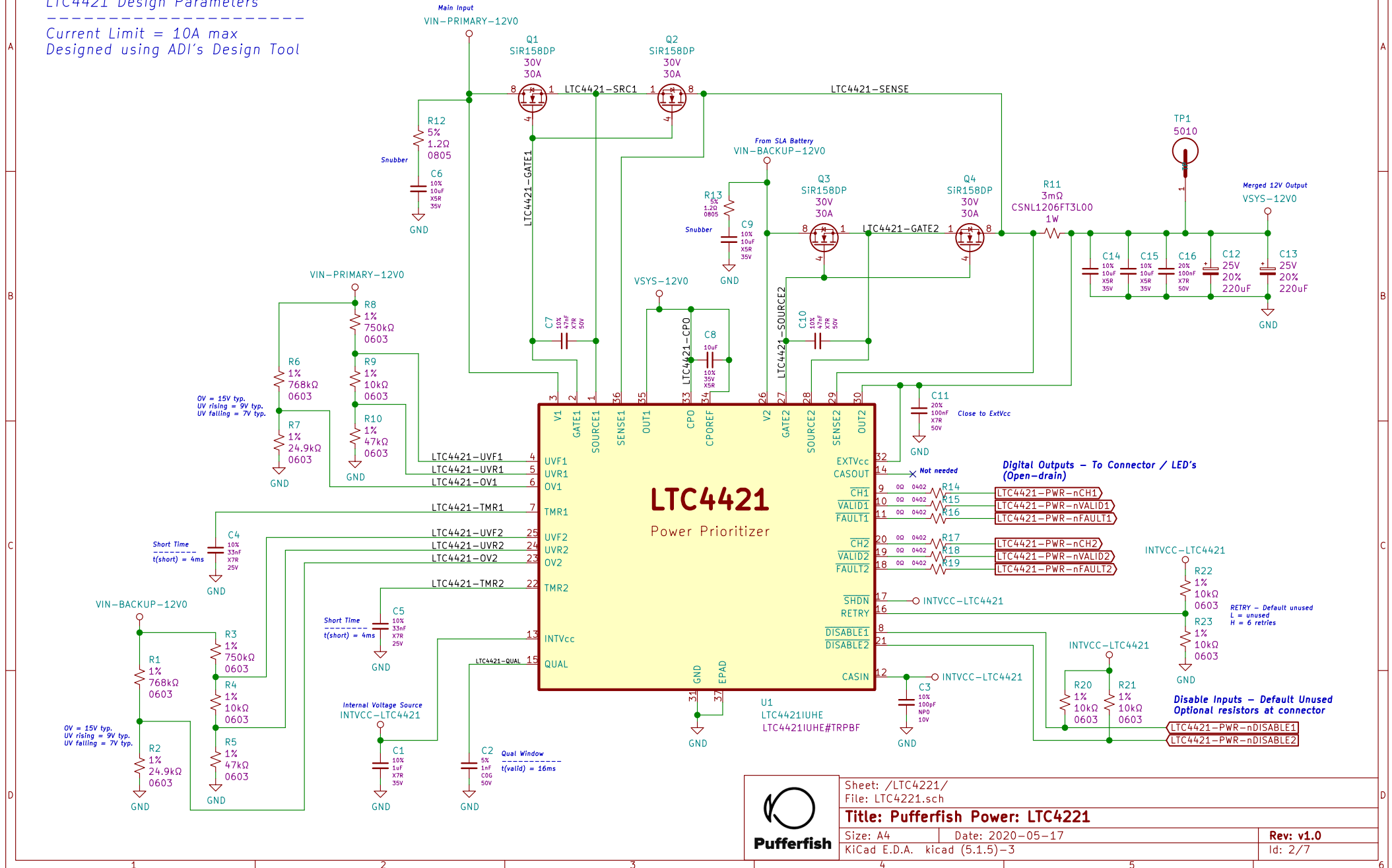
Sheet: /
File: Pufferfish-Power-1.sch

Title: Pufferfish Power – Top

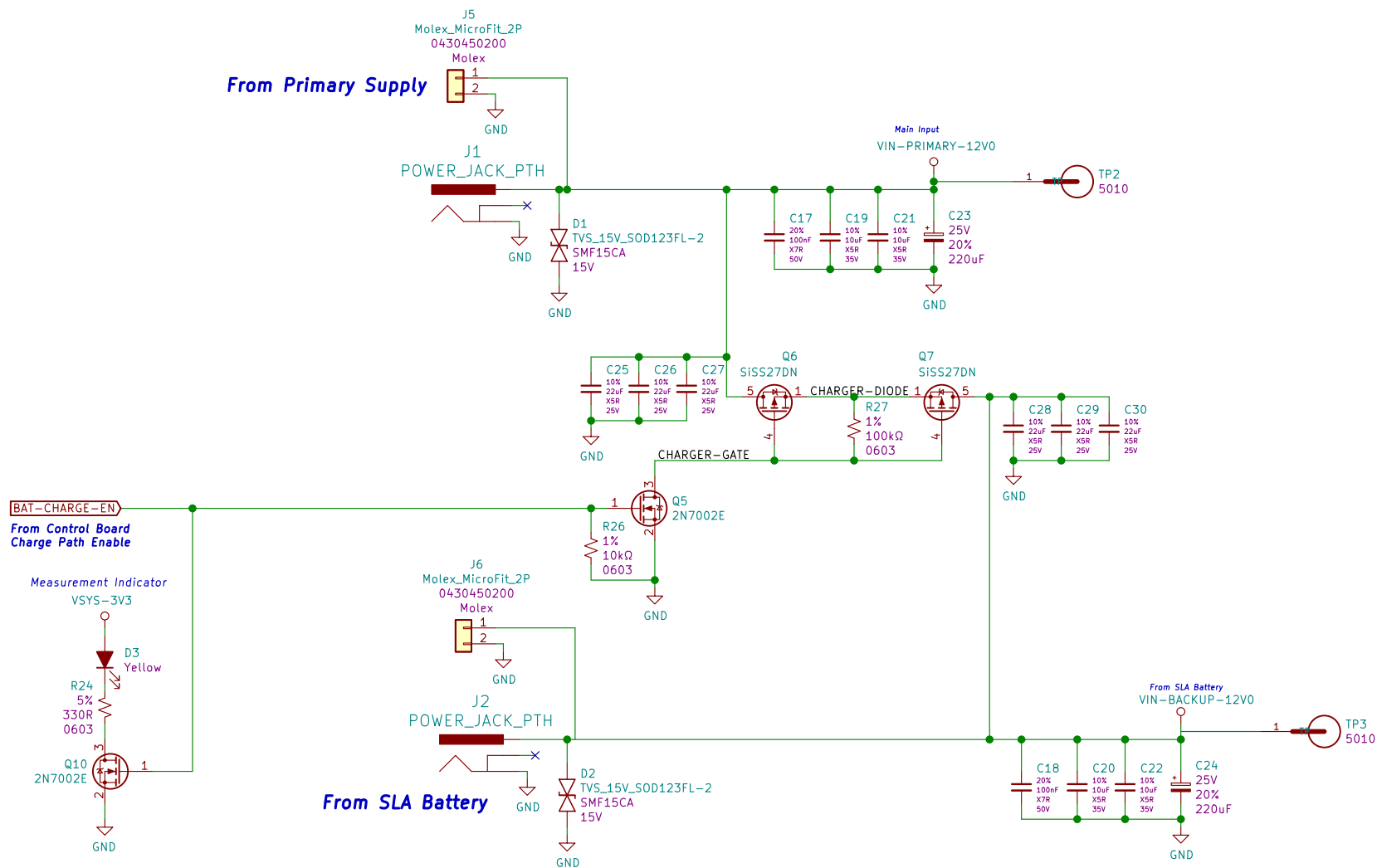
Size: A4 Date: 2020-05-17
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Rev: v1.0
Id: 1/7

Current Limit = 10A max
Designed using ADI's Design Tool



Input Power Connectors and Charging Circuit



Sheet: /Input Connectors/
File: Inputs.sch

Title: Pufferfish Power – Connector Inputs

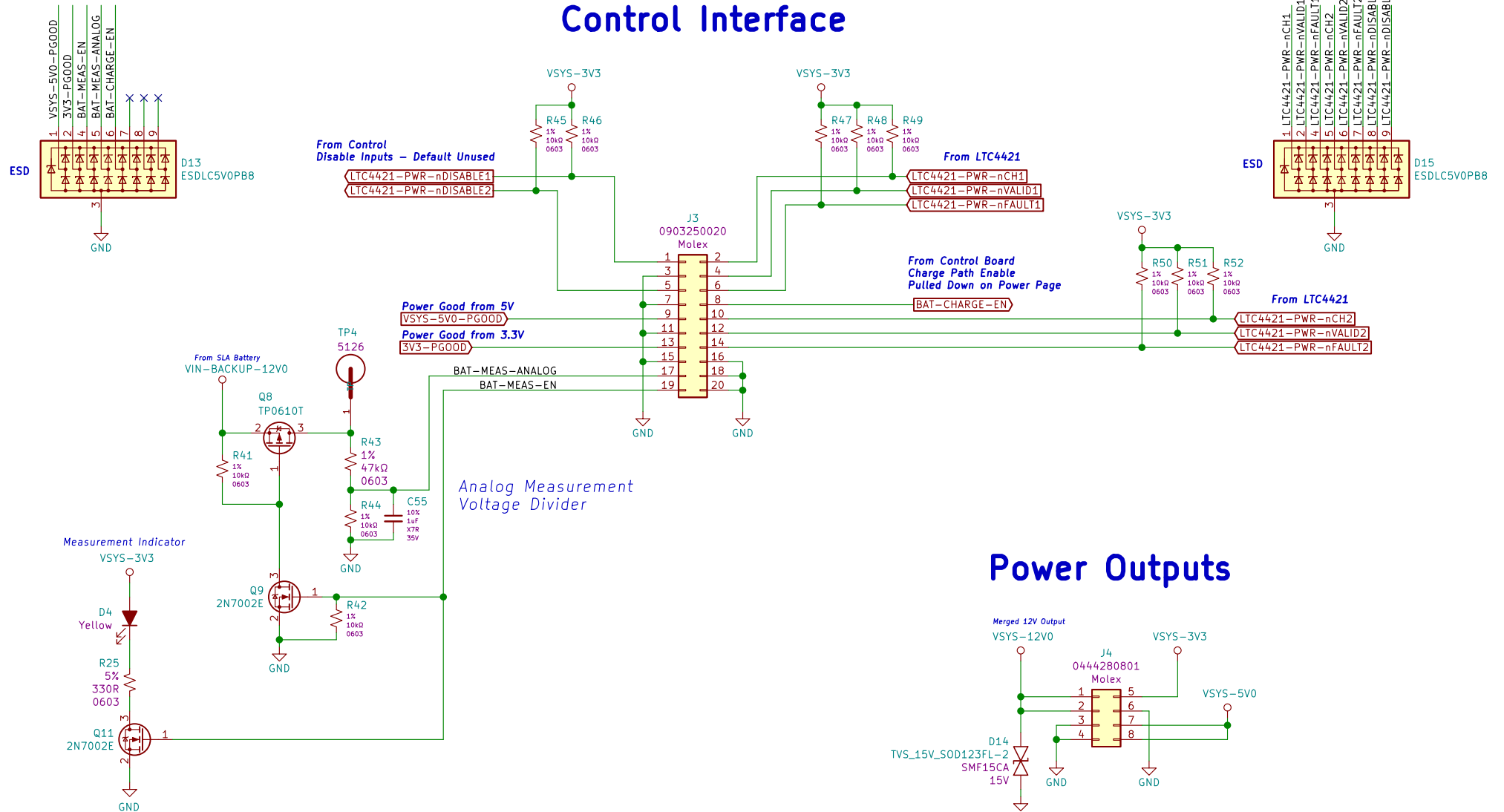
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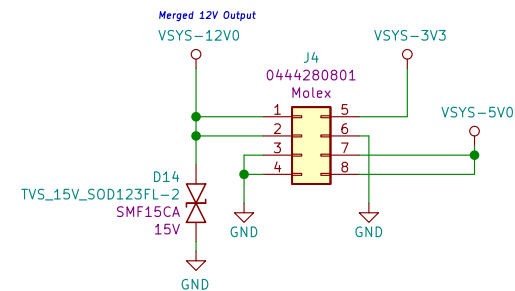
Rev: v1.0

Id: 3/7

Control Interface



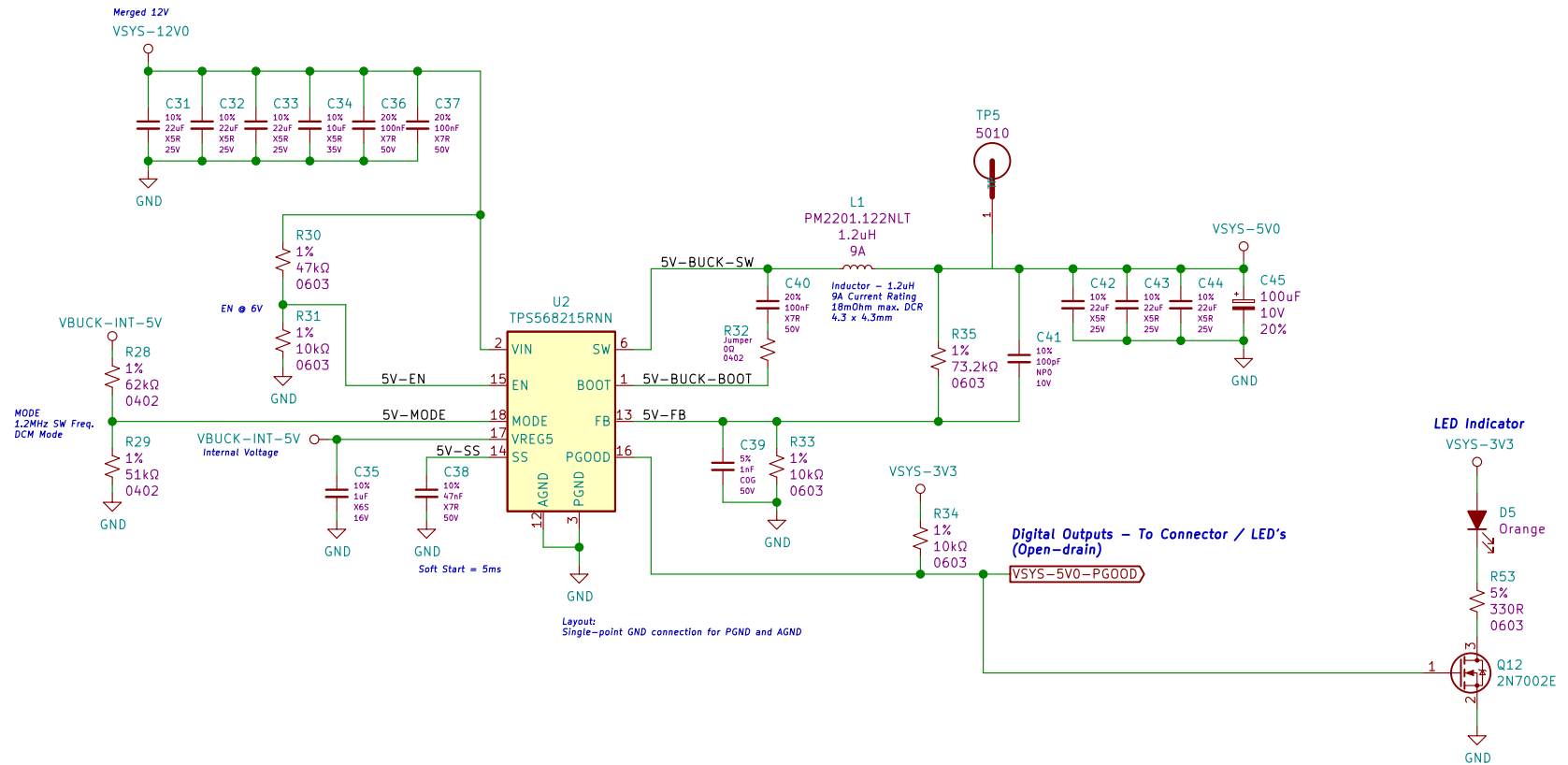
Power Outputs



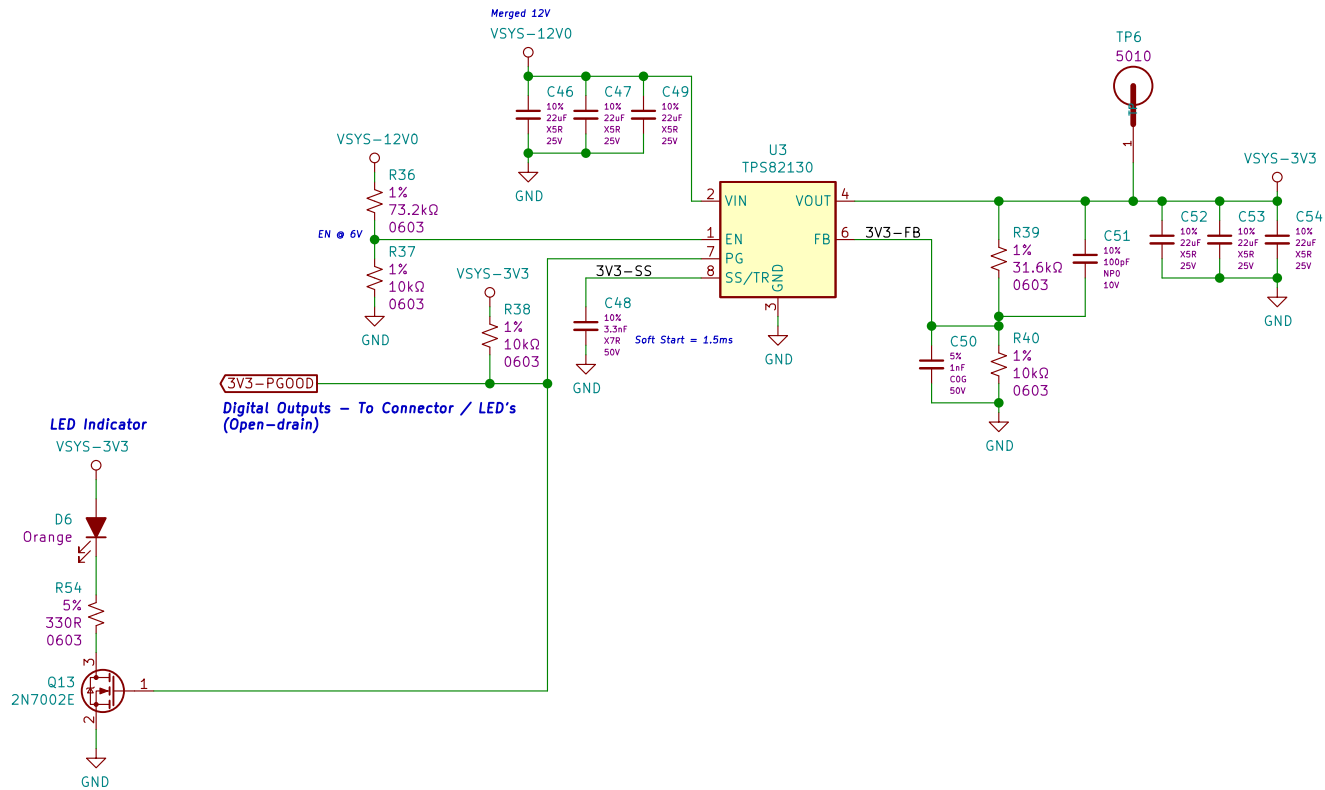
Sheet: /Interface/ File: Interface.sch		Title: Pufferfish Power: Interface Connectors	
Size: A4	Date: 2020-06-10	Rev: v1.0	
KiCad E.D.A. kicad (5.1.5)-3		Id: 4/7	

TPS56821 – 5V Buck Converter

8A Output
Sw. Frequency =1.2MHz

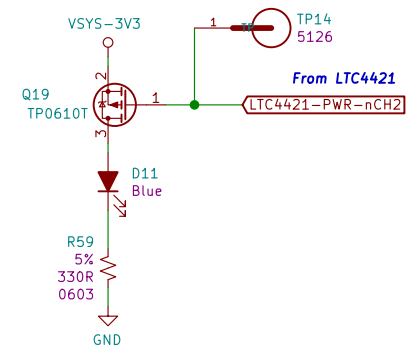
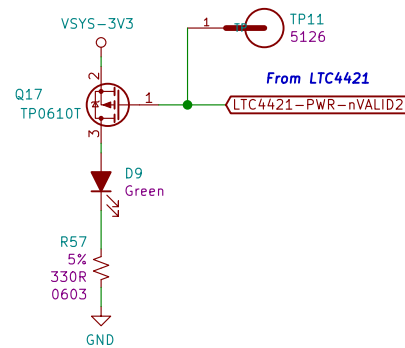
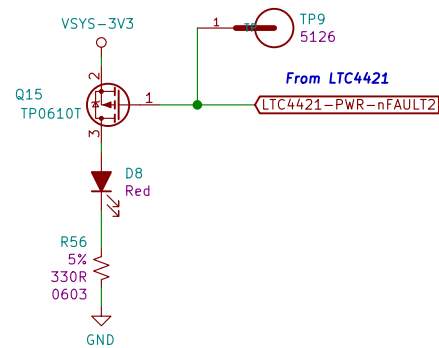
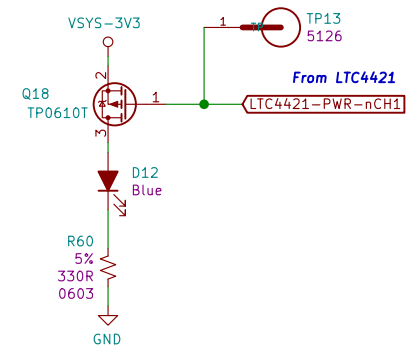
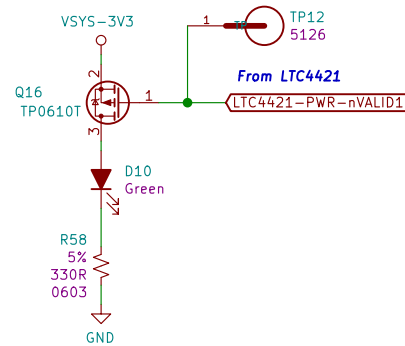
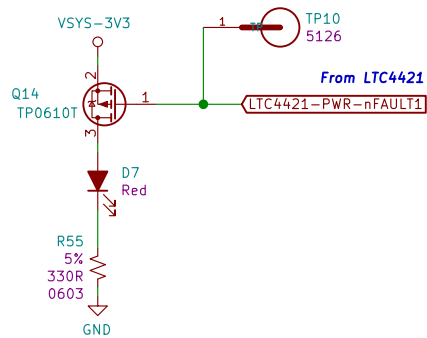


3A Output
Sw. Frequency = 2MHz

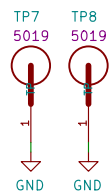


Sheet: /3.3V Buck/	
File: 3v3.sch	
Title: Pufferfish Power: TPS82130	
Size: A4	Date: 2020-06-05
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LED's and Debug



Ground Test Points



Sheet: /LEDs and Debug/
File: LEDs.sch

Title: Pufferfish Power: LED's and Debug

Size: A4 Date: 2020-06-10

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Rev: v1.0

Id: 7/7