

- H1 MountingHole
- H2 MountingHole
- H3 MountingHole
- H4 MountingHole



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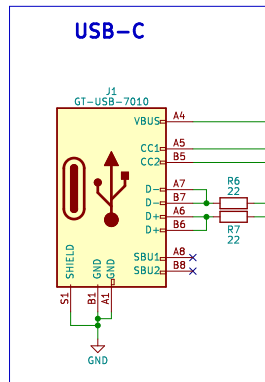
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 File: PowerPod.kicad_sch

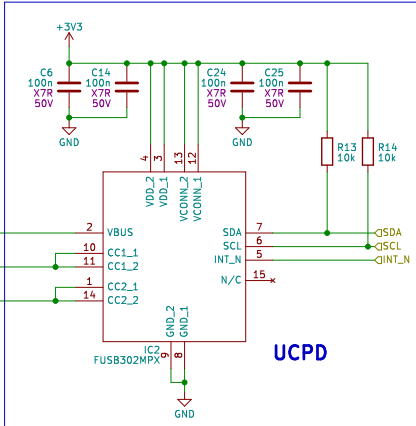
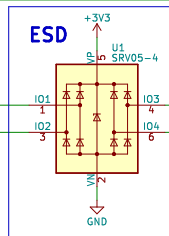
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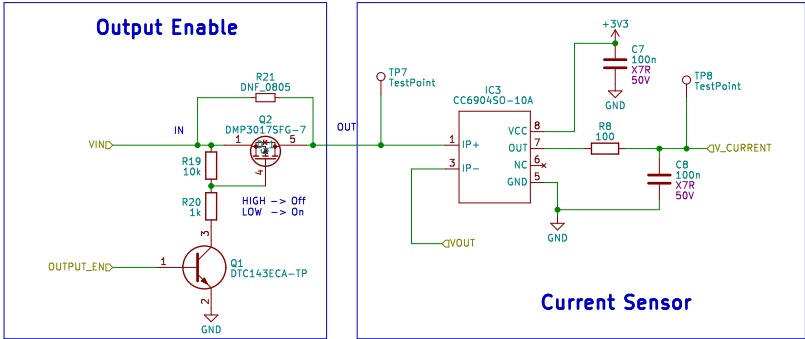
Rev: A
 Id: 1/5



VBUS



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Sheet: /USB/ File: usb.kicad_sch		
Title:		
Size: A3	Date: 2023-03-03	Rev: A
KiCad E.D.A. kicad (7.0.0)		
Id: 2/5		

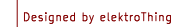


eT

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Sheet: /Current Sensor + Output Control/ File: current.kicad_sch		
Title:		
Size: A3	Date:	Rev:
KiCad E.D.A. kicad (7.0.0)		Id: 4/5

SMPS
4.5–28V to 3V3
See Reference

The diagram shows a TPS62175DQCT DC-DC converter circuit. The input is VIN, which is connected to the VIN pin (pin 2) of the IC. The EN pin (pin 3) is connected to VIN. The SLEEP pin (pin 8) is connected to VIN. The NC pin (pin 4) is connected to ground. The SW pin (pin 9) is connected to the SW node, which has an inductor L1 (10uH) and a resistor R5 (0). The VOS pin (pin 10) is connected to the SW node. The FB pin (pin 5) is connected to the FB node, which has a resistor R2 (1M2) to ground. The PG pin (pin 7) is connected to the PG node, which has a resistor R3 (383k) to ground. The PGND pin (pin 1) is connected to ground. The AGND pin (pin 6) is connected to ground. The EP pin (pin 11) is connected to ground. The output is connected to the SW node, which goes through a resistor R4 (0) to the 3V3 output. The output is also connected to a diode D1 (Green_0603) and a resistor R16 (2.7k) to ground. The output is filtered by capacitors C2 (22uF, X5R 25V) and C3 (10uF, X5R 25V). Test points TP4, TP5, TP10, and TP11 are located at various nodes.

**Title:**

Size: A3

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Size: A3	Date:
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Id: 5/5