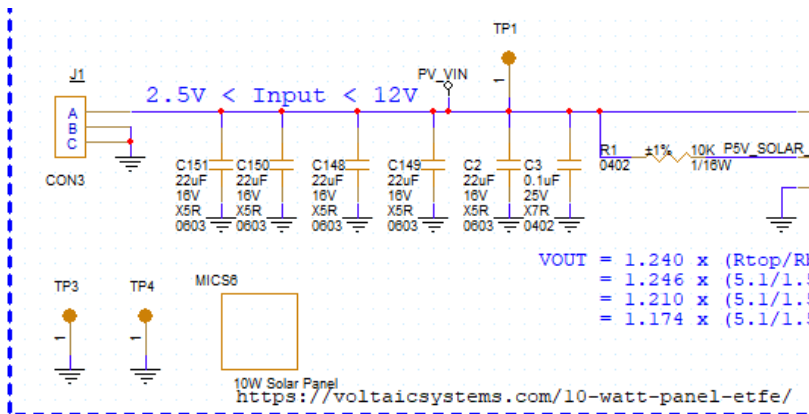
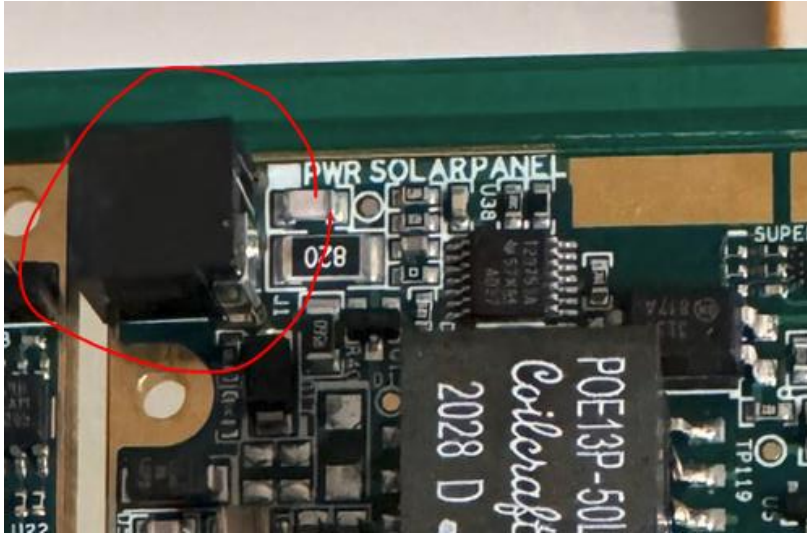


1. Main supply
- 1.1 From DC jack

This is default supply. It can be supply via power supply or Solar panel
Plug in to DC jack to power the board.



- 1.2 From PoE

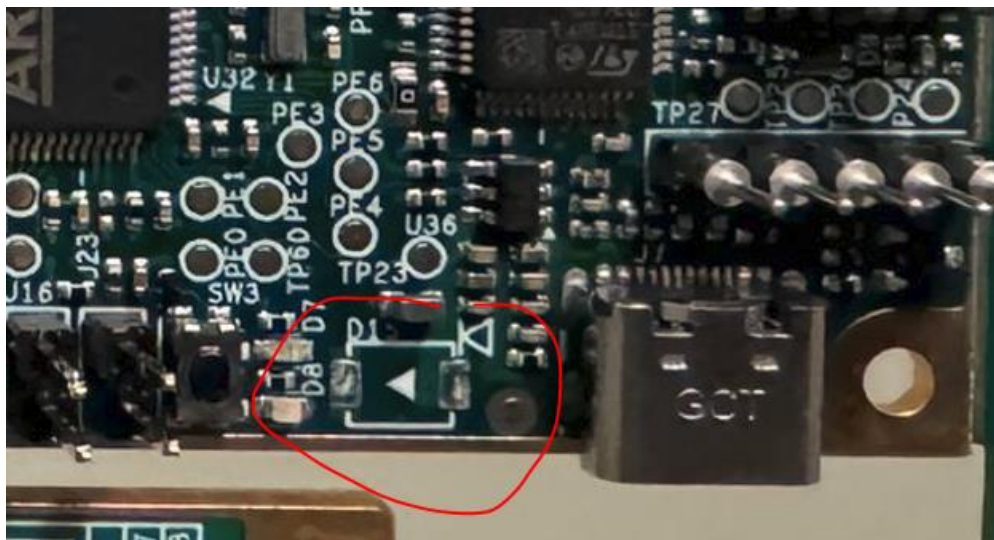
This is optional. Need to testing for alternative power source



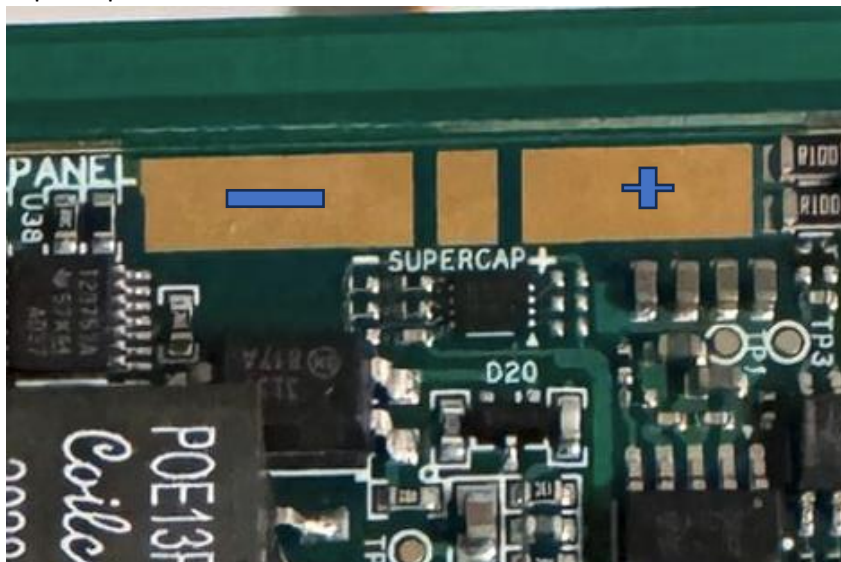
- The diode D6 unpopulated to do the testing before connected to system.
 - If testing OK, it can be use alone by shorting this diode.
 - To parallel using with DC jack, please solder this diode to board.
- Diode part number: PMEG3030EP,115

1.3 From USBC

- This is optional for board power supply.
- Using power from USBC connector. Please make sure the charger has enough power for system.
- To use as alone power supply, please shorting diode D15 and disconnect from other power sources (DC jack, PoE)
- To use parallel with other power sources, please use diode with PN PMEG3030EP,115 to solder on board.



1.4 Super capacitor.



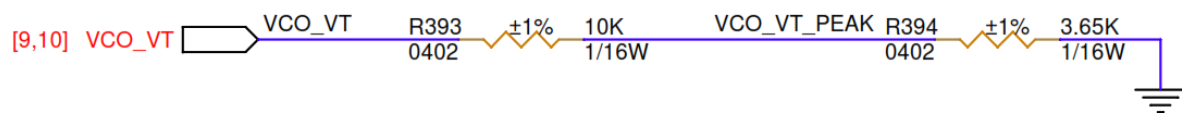
These 3 pads using for super capacitor to solder to PCB.
Polarity as picture. The middle pad leaves empty.

2. Power option for RF Amplifier block

Shorting one of these 3 connections to choose the output of boost converter U3 to supply to amplifier.
It allowed to choose the supply voltage for amplifier. By that, we can choose the voltage swing for RF



And by that way, we can have the saw tooth signal back to MCU as below



SAWTOOTH PEAK depend on VCO tuning voltage

1. 6V -> peak 1.6V
2. 10V -> peak 2.67V
3. 12V -> peak 3.2V