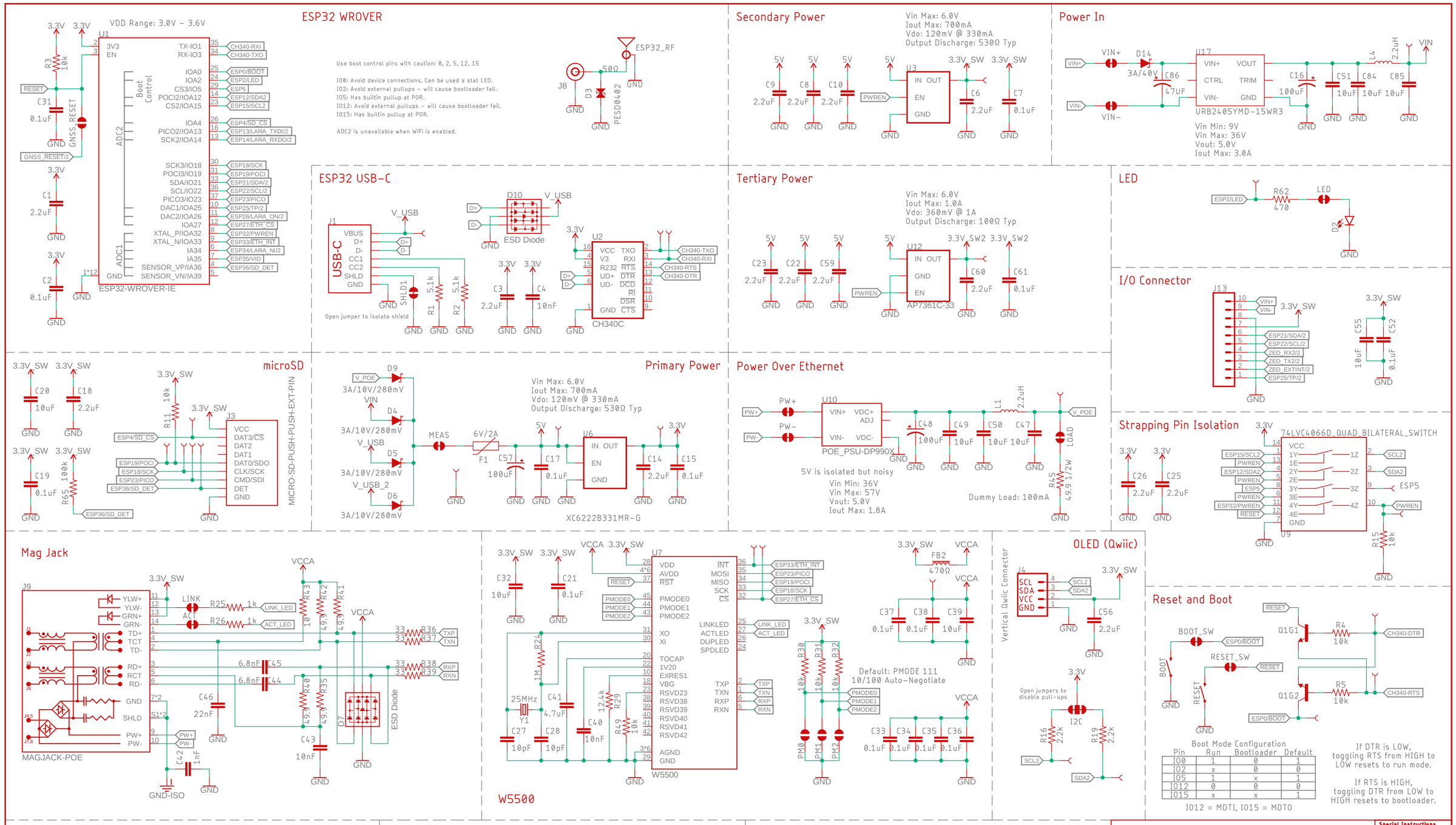
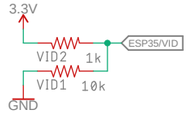


USB Track Impedance: Differential Pair
https://saturnpcb.com/saturn-pcb-toolkit/
Prepreg thickness: 0.2mm (7.87 mil). Er = 4.6
10.5 mil track with 9.5 mil gap (20 mil center to center) = 90 Ohms

RF Track Impedance: Coplanar Waveguide with Ground Calculations
Ground is on layer 2. Prepreg thickness: 0.2mm. Er = 4.6
12.5 mil track with 5 mil gap = 50 Ohms
https://chemandy.com/calculators/coplanar-waveguide-with-ground-calculator.htm

Product Identifier



RTK Product Voltage IDs:

Surveyor:	Pin 35 floats at 0.18V approx.
Express:	3.3 / 13.3 = 0.82V (0.74 – 0.90)
Reference Station:	10 / 30 = 1.1V (0.99 – 1.21)
Facet:	10 / 20 = 1.65V (1.49 – 1.82)
Facet L-Band:	20 / 30 = 2.2V (1.98 – 2.42)
Express Plus:	10 / 13.3 = 2.48V (2.23 – 2.73)
Control:	10 / 11 = 3.00V (2.70 – 3.30)

open hardware

sparkfun

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Special Instructions

TITLE: RTK_Control

Design by: Paul Clark

REV: v01

Date: 07/07/2023 16:22

Sheet: 1/2