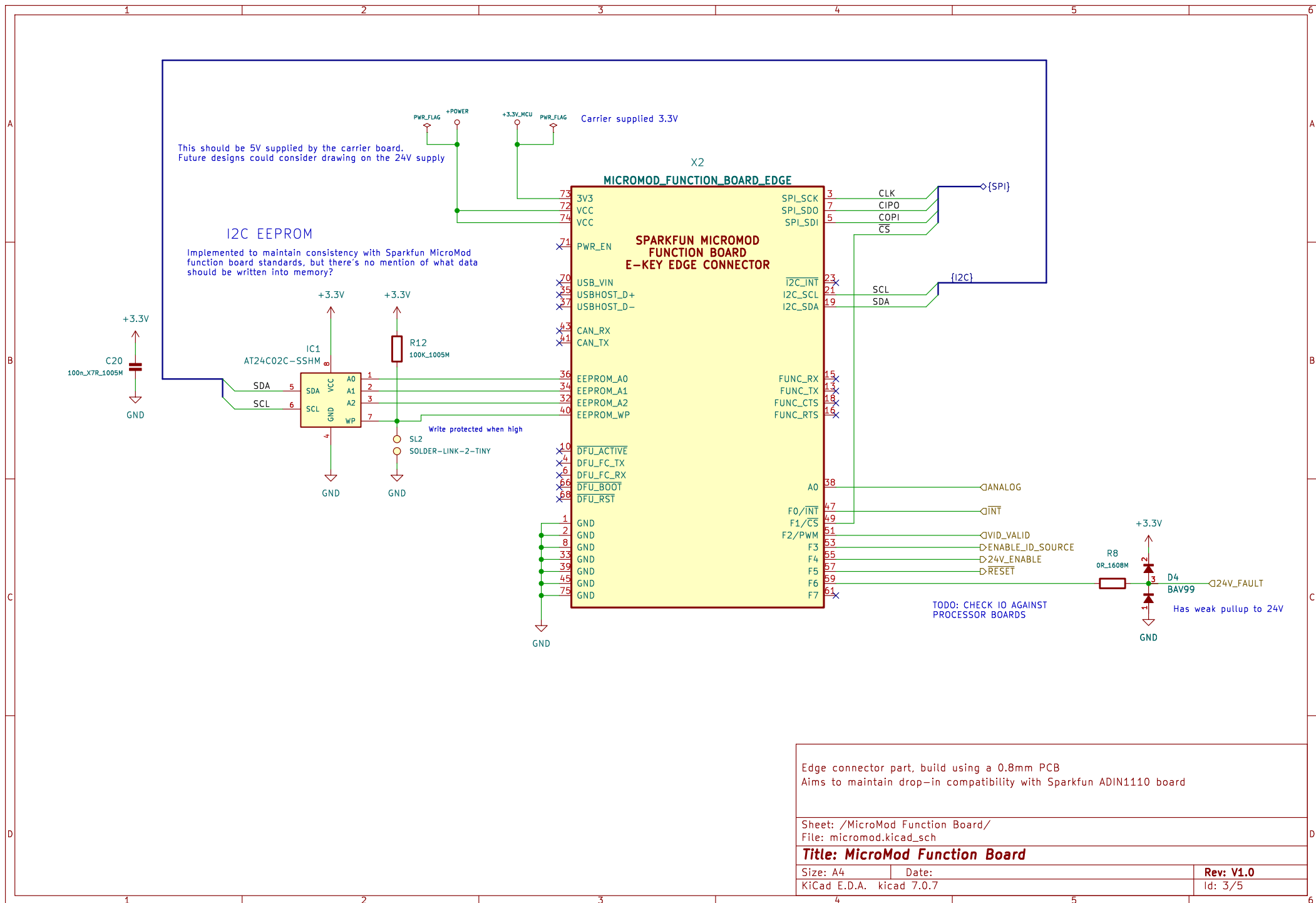


Aims to maintain compatibility with Sparkfun ADIN1110 board
All configuration pins are left in default state

Sheet: /Ethernet MAC+PHY/
File: ethernet.kicad_sch

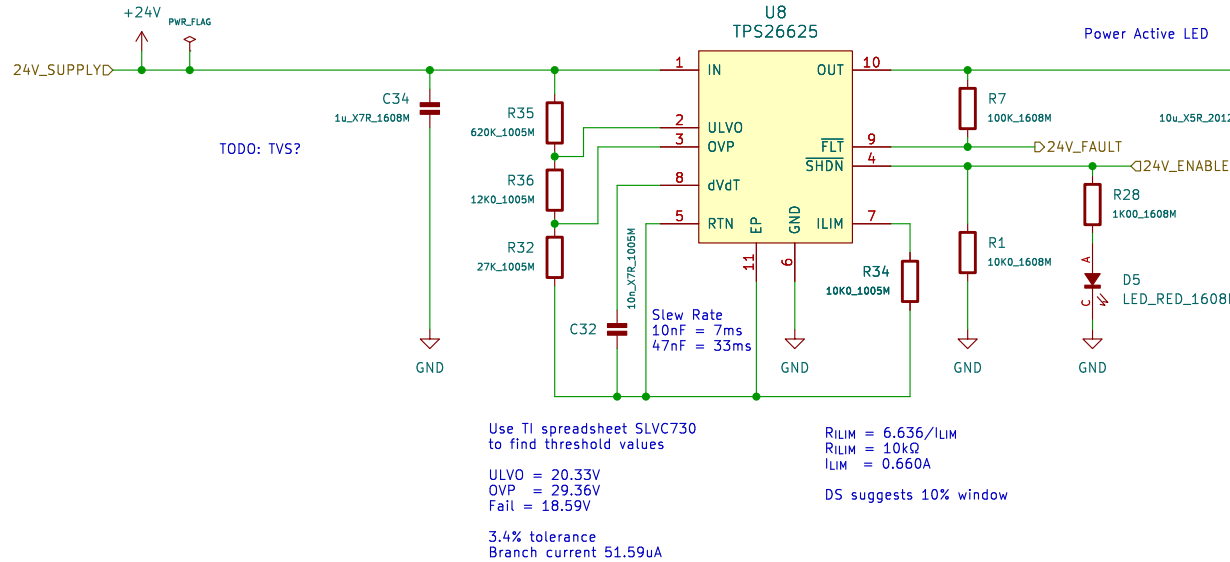
Title: ADIN1110 SPE Transceiver

Size: A4	Date:	Rev: V1.0
KiCad E.D.A.	kicad 7.0.7	Id: 2/5



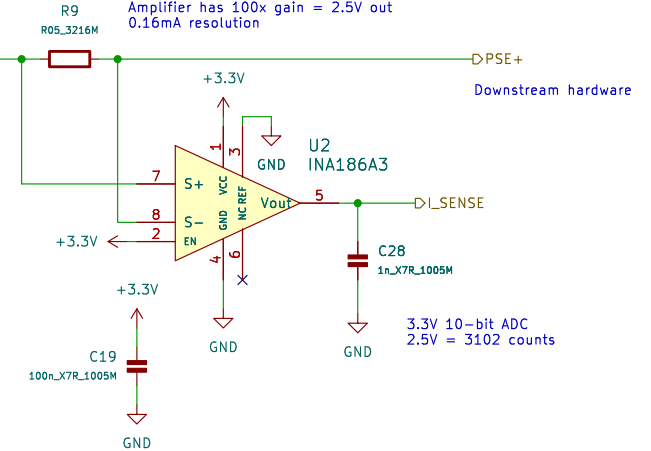
Power Enable Switch

24V Unregulated classes 10, 11, 12 are supported.
Allows supply voltages between 20–30VDC.



Current Measurement

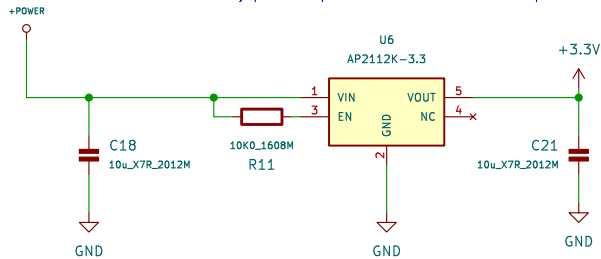
PoDL Class 12 = 632mA max
0.5A across 50mΩ = 25mV
Amplifier has 100x gain = 2.5V out
0.16mA resolution



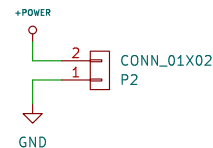
3.3V REGULATOR

Carrier supplied 5V

Only provides power to function board components



5V Input/Output



HV PoDL feed is controlled by Micro.
eFuse handles polarity, voltage, OCP

Sheet: /Power Regulation/
File: power.kicad_sch

Title: Input Power Switch and Sensing

Size: A4 Date: 2023-08-17

KiCad E.D.A. kicad 7.0.7

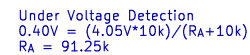
Rev: V1.0

Id: 4/5

Supply a constant current of 9–16mA



Downstream PD will attempt to identify by regulating the line voltage to the 4.05V to 4.7V window (though an 300mA error is optionally tolerated)



Id: 5/5

A 3-resistor divider network can also be created.
Calculation spreadsheet in repository /docs