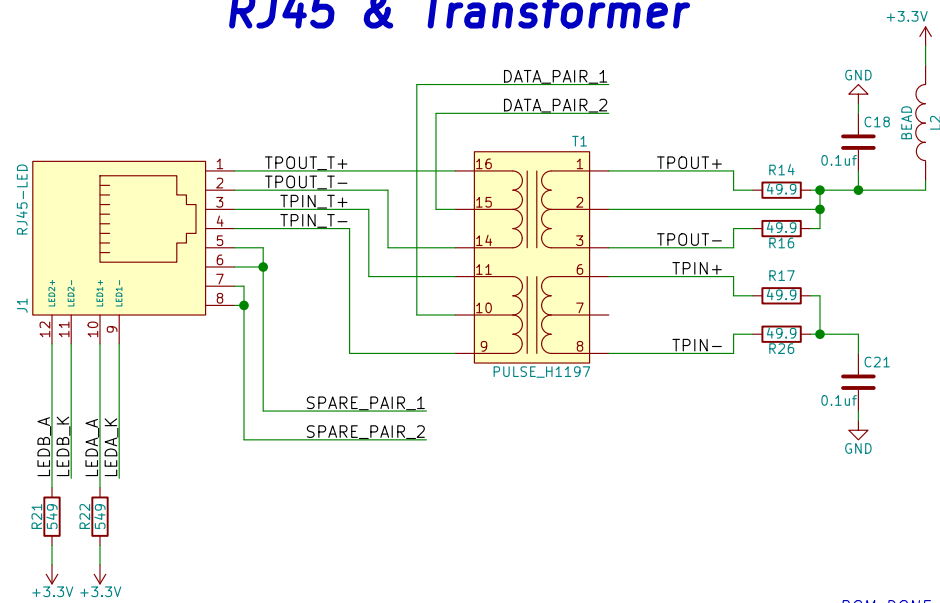
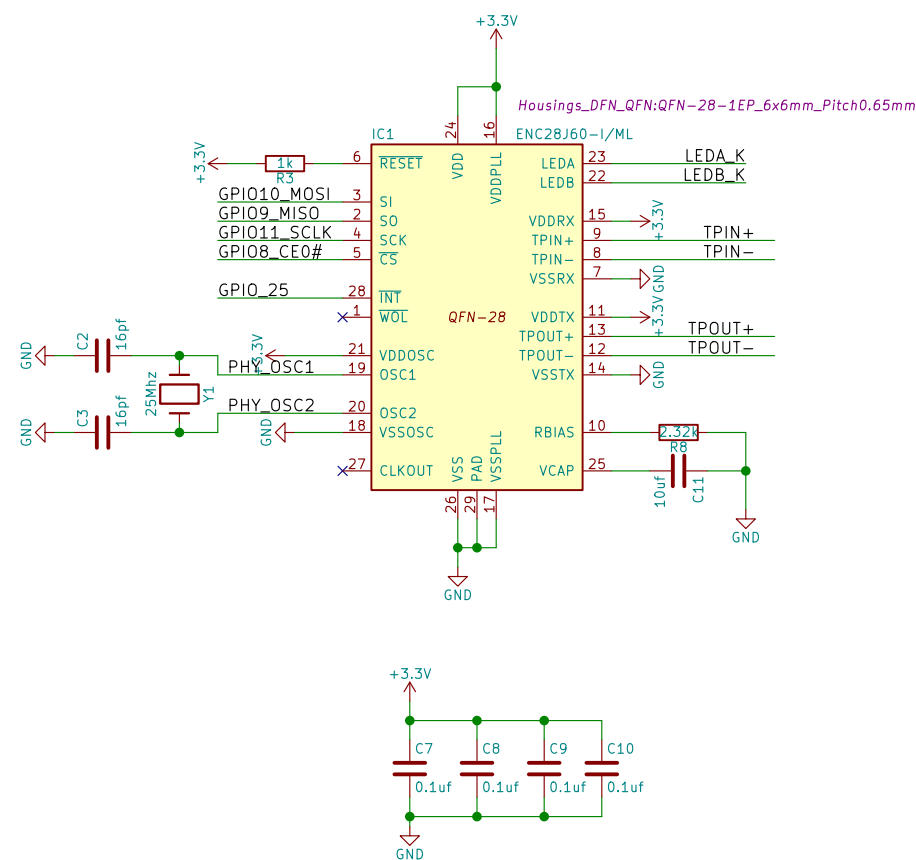


RJ45 & Transformer



BOM DONE

Ethernet PHY

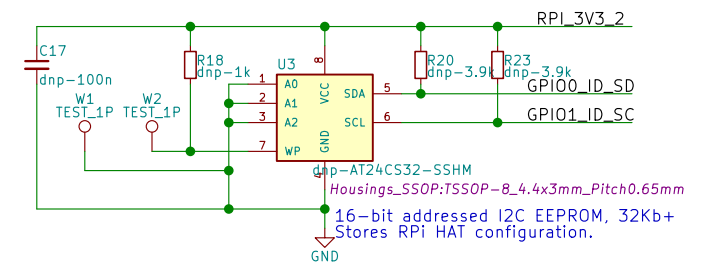
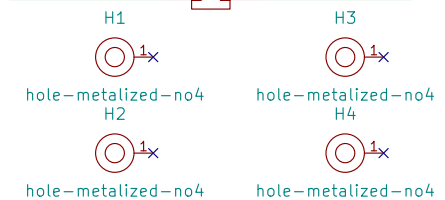


BOM DONE

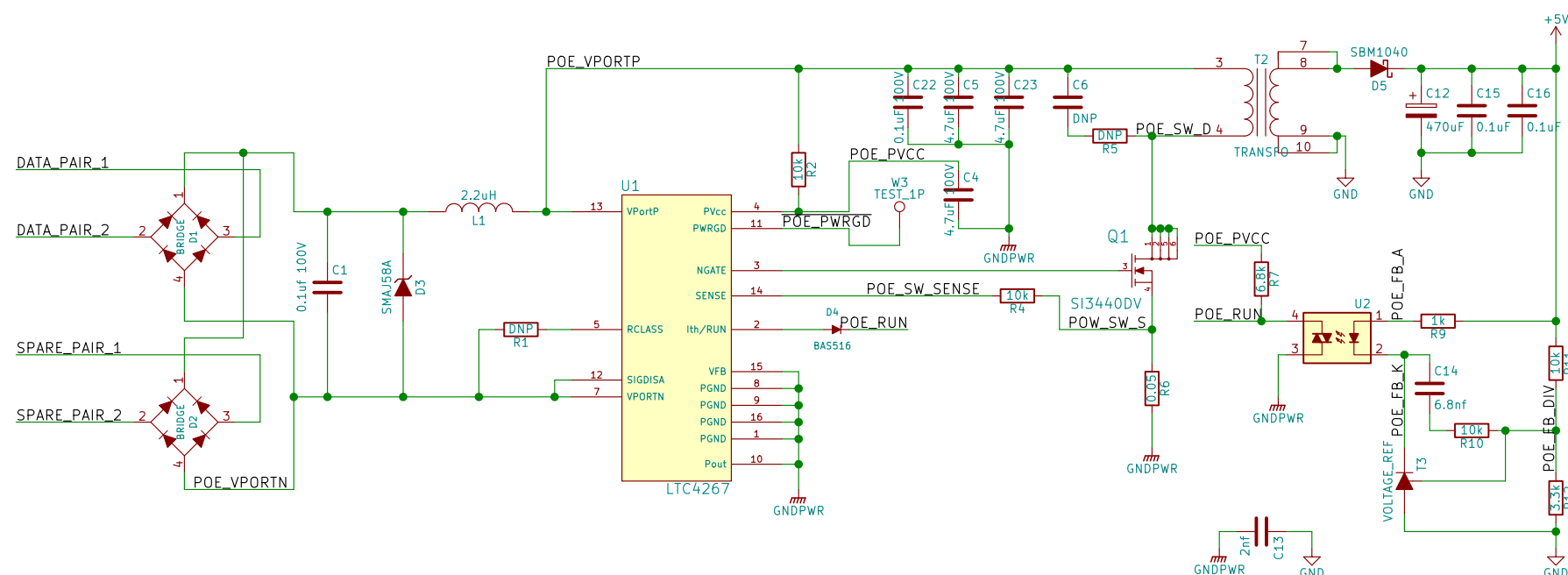
Raspberry Pi Header

TH Female Bottom or SMT Female Top Header
SMT: Toby Electronics REF-182665-01/REF-182665-03
TH: Digikey 1528-1385-ND
Pin #s Match RPi.

RPI_3V3_1	1	P2	2	RPI_VBUS
GPIO1_SDA1	3		4	RPI_VBUS
GPIO3_SCL1	5		6	GND
GPIO4	7		8	GPIO14_TXD0
GND	9		10	GPIO15_RXD0
GPIO17	11		12	GPIO18
GPIO27	13		14	GND
GPIO22	15		16	GPIO23
RPI_3V3_2	17		18	GPIO24
GPIO10_MOSI	19		20	GND
GPIO9_MISO	21		22	GPIO25
GPIO11_SCLK	23		24	GPIO8_CE0#
GND	25		26	GPIO7_CE1#
GPIO0_ID_SD	27		28	GPIO1_ID_SC
GPIO5	29		30	GND
GPIO6	31		32	GPIO12
GPIO13	33		34	GND
GPIO19	35		36	GPIO16_CE2#
GPIO26	37		38	GPIO20_MOSI
GND	39		40	GPIO21_SCLK

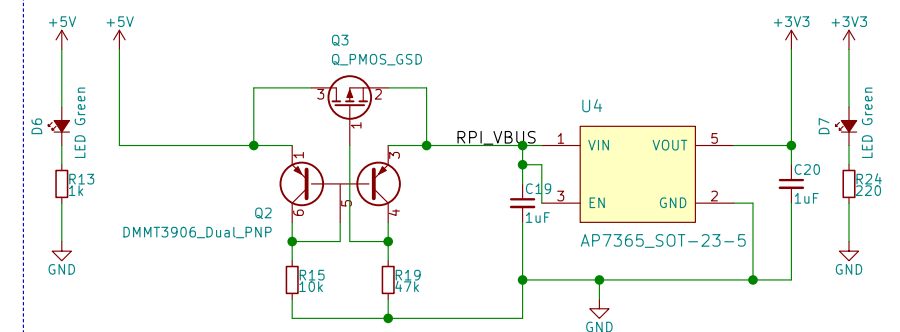


Power Over Ethernet Mangament



BOM DONE

Raspberry Pi Power



Ideal Diode for RPi 5V Source

Q1: Low Rds PFET like DMP3099L.
3A, 99mΩ @ 4.5V Vgs.
Q2: Matched PNP pair. Current mirror
comparator pulls Q1 gate low (on)
when USB_VBUS_RVP > USB_VBUS.

Extra Linear Reg. for 3.3V

Power ethernet phy whether we
have PoE or not. Phy requires more
power than allowed from RPi 3.3V.

License: CERN OHL V1.2
Author: Julien Marcus

OpenFet

Sheet: /
File: pizero-poe.sch

Title: Raspberry Pi - Power Over Ethernet & PHY

Size: A3 Date: 2016-02-02

Rev: 0.1d

KiCad E.D.A. kicad 4.0.2-stable

Id: 1/1