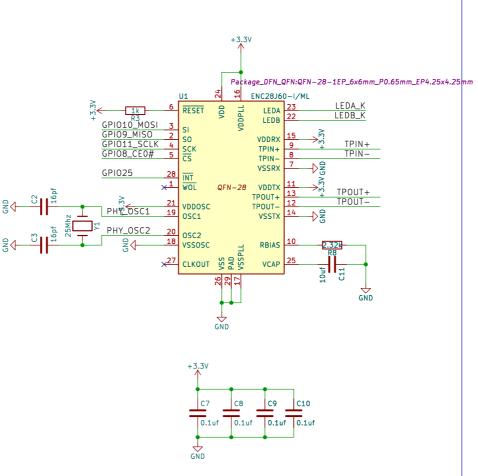
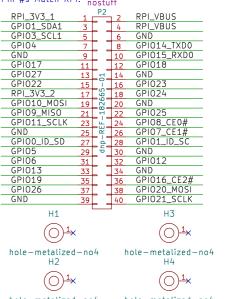


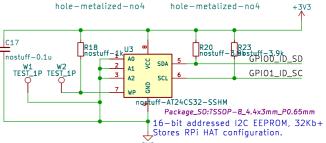
Ethernet PHY



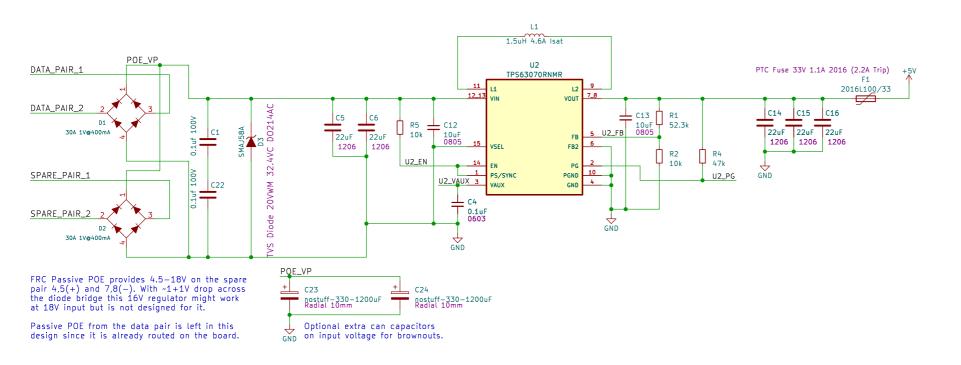
Raspberry Pi Header

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. nostuff

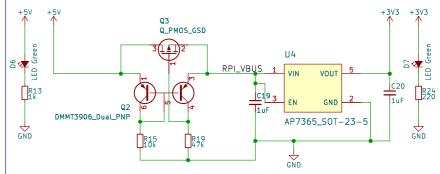




Passive PoE (4-16V) -> 2A Buck-Boost -> 5V



Raspberry Pi Power



Ideal Diode for RPi 5V Source

Q1: Low Rds PFET like DMP3099L. 3A, 99m Ω @ 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.

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Title: Raspberry Pi - Power Over Ethernet & PHY

Size: A3 Date: 2016-02-02 Rev: 0.1d

KiCad E.D.A. eeschema 7.0.2-0 Id: 1/1