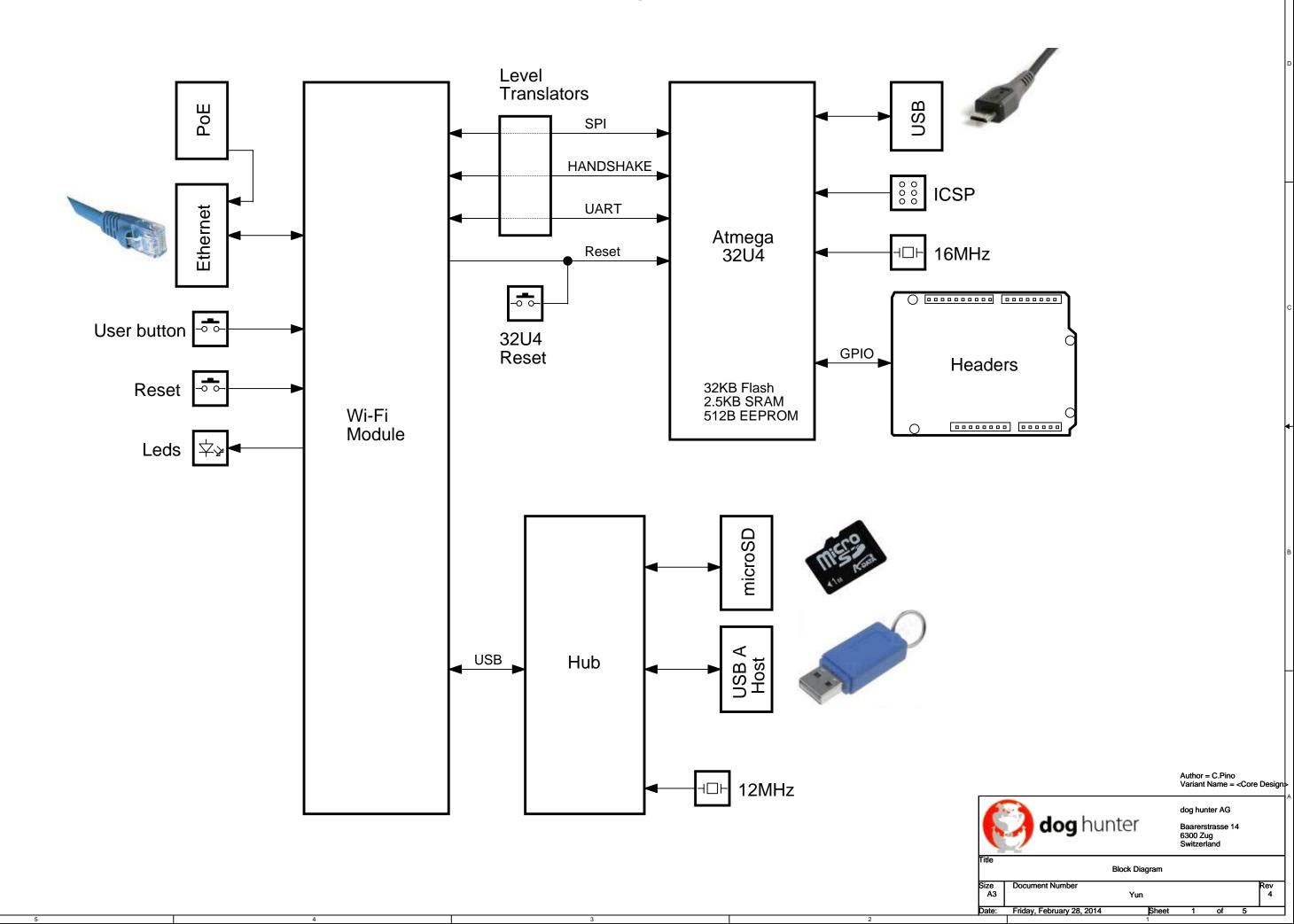
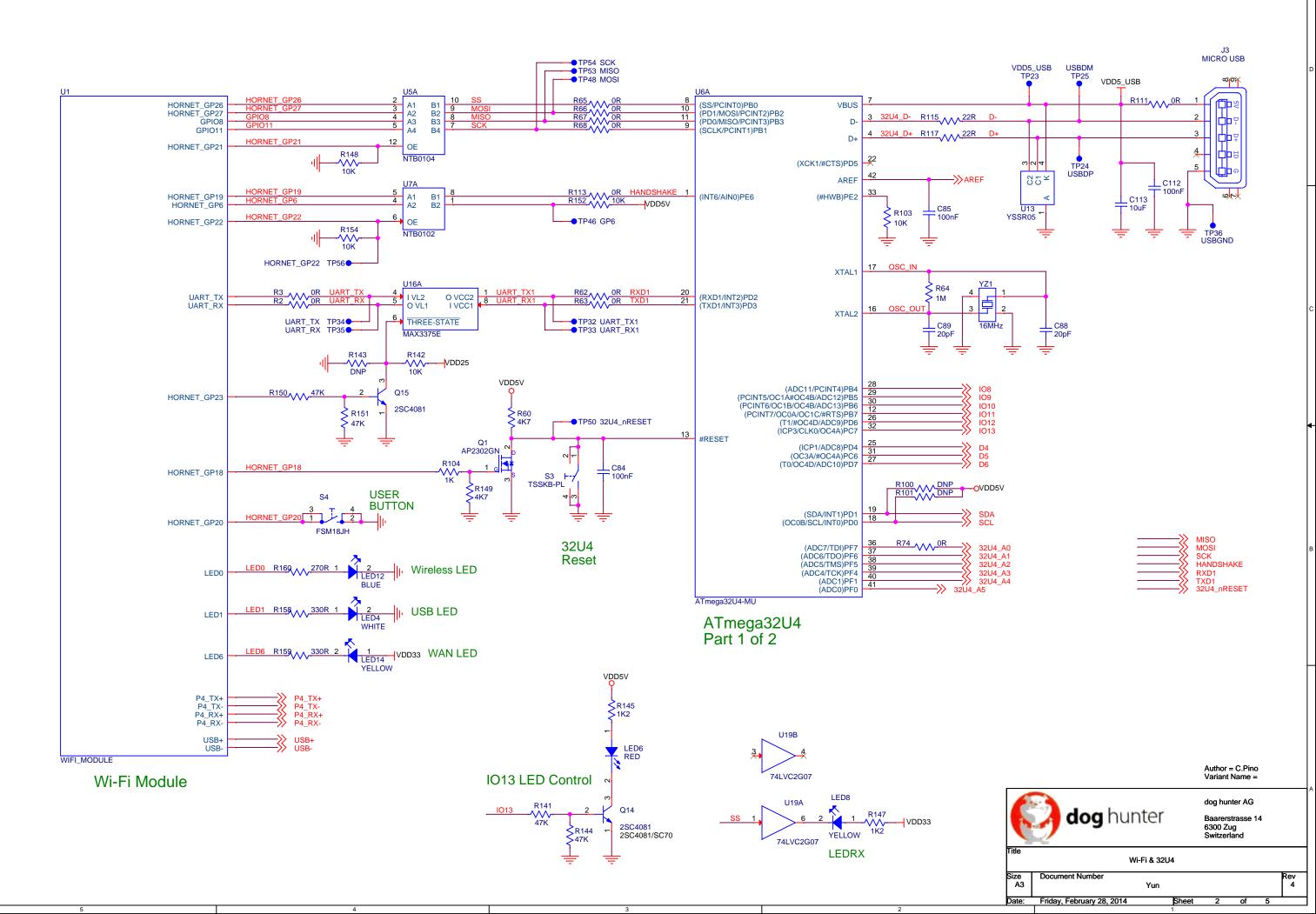
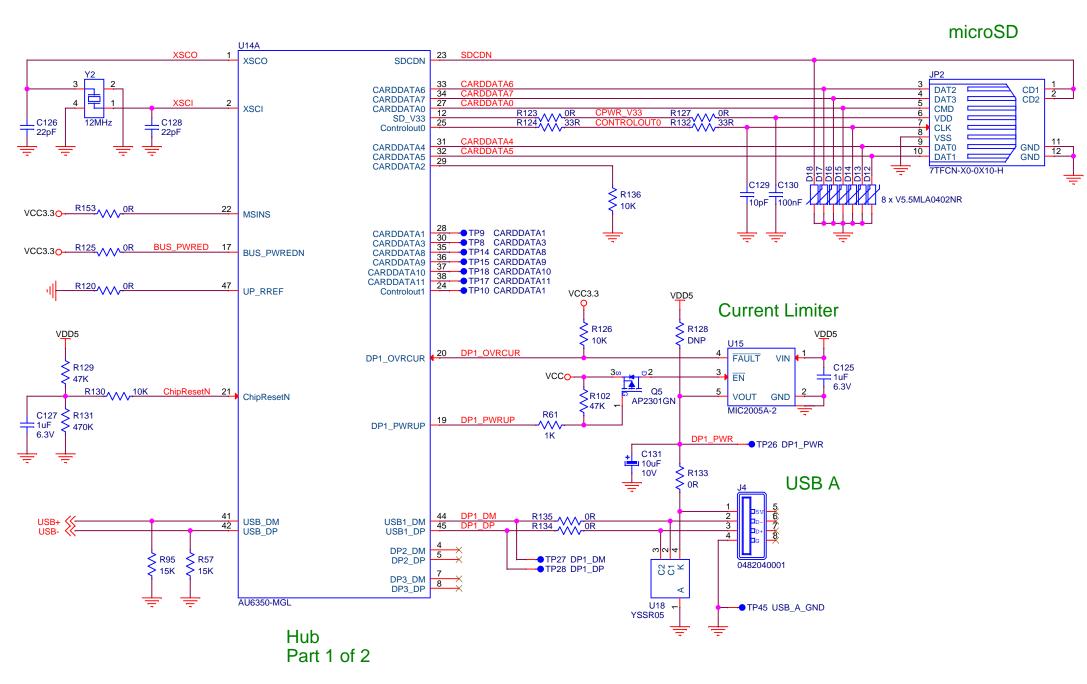
Block Diagram



Wi-Fi & 32U4

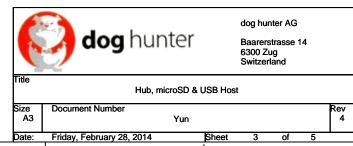


Hub, microSD & USB Host

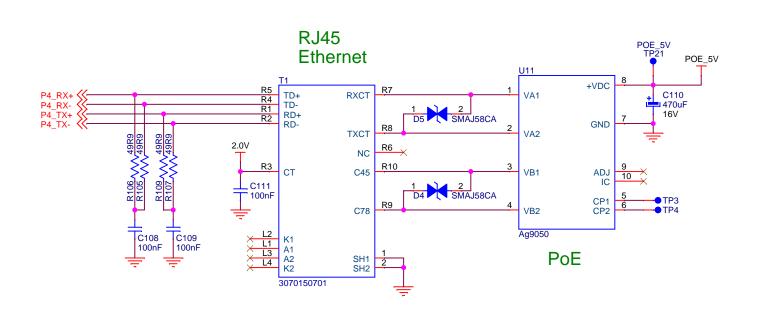


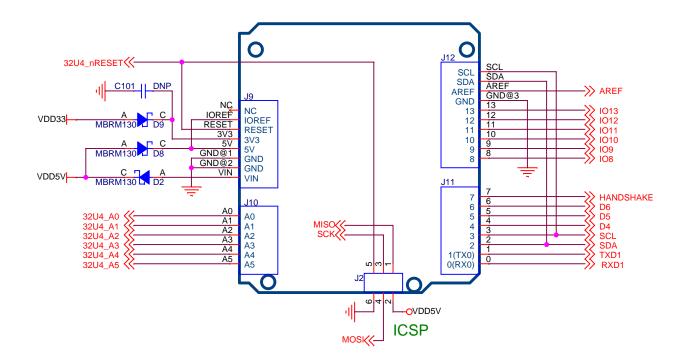
USB signal line trace:
1.Keep traces of USB bus D+ and D- the same length.
2.Achieve 90 ohm differential characteristic impedance.
3.Achieve 45 ohm common characteristic impedance.
4.Maintain parallelism between D+ and D-.
5.Do not route USB2.0 D+ and D- over the power plane split.
6.Do not route USB2.0 D+ and D- over the other high frequency signals.
7.It is preferred to route USB2.0 D+ and D- over ground layer.
8.It is preferred to route USB2.0 D+ and D- using single layer.

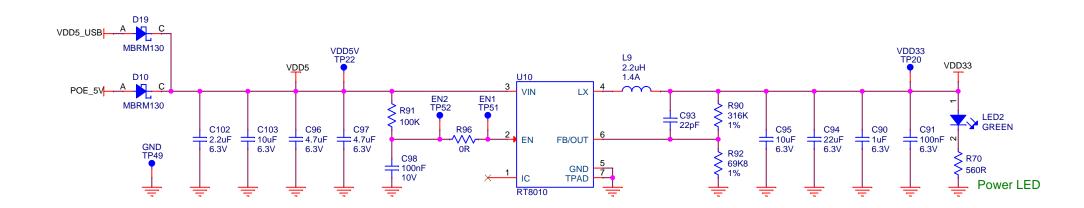
Author = C.Pino Variant Name =



Power Supply & Pin Headers







Author = C.Pino
Variant Name =

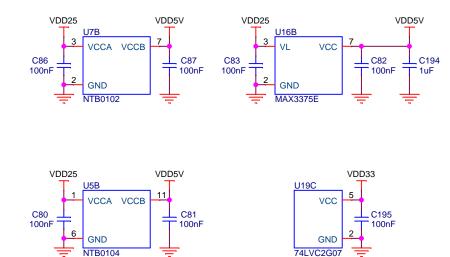
dog hunter AG
Baarerstrasse 14
6300 Zug
Switzerland

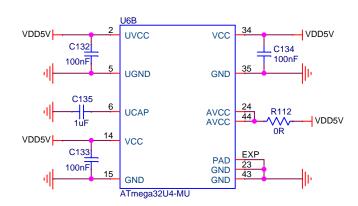
Title
Power Supply & Pin Headers

Size A3 Pun Rev
4

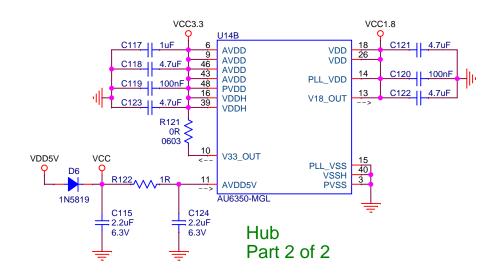
Date: Friday, February 28, 2014 Sheet 4 of 5

IC Power





ATmega32U4 Part 2 of 2



Filter capacitors must be placed as close as possible to relative pin, as drawn in the schematic

