

ARDUINO PRIMO

DESCRIPTION

| PCB Rev | Date | Description |
|---------|------------|--|
| 0.1 | 2015/12/15 | Initial version. |
| 0.2 | 2016/04/18 | <ul style="list-style-type: none"> -Connected IR_TX and RX to PA2 and PA3 of U4 -Changed C10 and C11 to 12pF -Changed R44 to 100 ohm <p>Below related to antenna matching</p> <ul style="list-style-type: none"> -Changed C14 and C15 to 430pF -Changed C13 ,C24 to 4.3pF -Changed C9 to 8.2pF -Changed L9 to 3.3pF -Changed C23 to 0R -Changed L5 to 3.3pF -Changed C12,C25,ANT3,R61,R62,R63 and R64 to N.C. <p>-Added U9 (DC/DC) for 5V</p> |
| 0.21 | 2016/08/08 | <ul style="list-style-type: none"> - Added cut-off circuit for low voltage battery - Changed S3 to nRF52 ,ESP8266 and STM32 RESET - Connected input of charger to 5V - Added SWD_PROG to disable/enable SWD clock connection of nRF52 . - Added R201 and R202 which in order to select the power of ICSP - Added TP53 and TP54 -Added GND_DETECT for programming external board - disconnect connection of ESP8266 from ST chip - connect I2C signals to nRF52_SCL, nRF52_SDA using R0 - connect SPI signals to ESP_GPIO14 (CLK) --> 13, ESP_GPIO12(MISO) --> 12, ESP_GPIO13(MOSI) --> 11, ESP_GPIO15(CS) --> P0.06 using R0 -Removed LED7 , 8 ,R147,R148 -Changed Q18 from MMBT2907A to 2SC4081 |
| 0.22 | | <ul style="list-style-type: none"> - Connected input of charger to USB and VIN and added selecter circuit (Q19 and Q20) for it - Changed Q12 from NMOS to PMOS and using Q10 NMOS to control it - Connected output of U9 to 5V - Changed R61 from 100k to 1k ohm and added C20 1uF ,exchanged pin 2 and 3 of Q13 - Added voltage divider for BAT_DET - Changed R69 connection from 13 to 9 - Changed R14 connection from ESP_GPIO14 to ESP_GPIO2 -Changed R79 to NC , R80 to 47k ohm , R81 to 390k ohm and R82 to 1M ohm - Connected WiFi LED to ESP_GPIO2 and ESP_GPIO5 to P0.05 of nRF52 using an 0 ohm |


ARDUINO PRIMO-V022

DATE : 2016/12/20

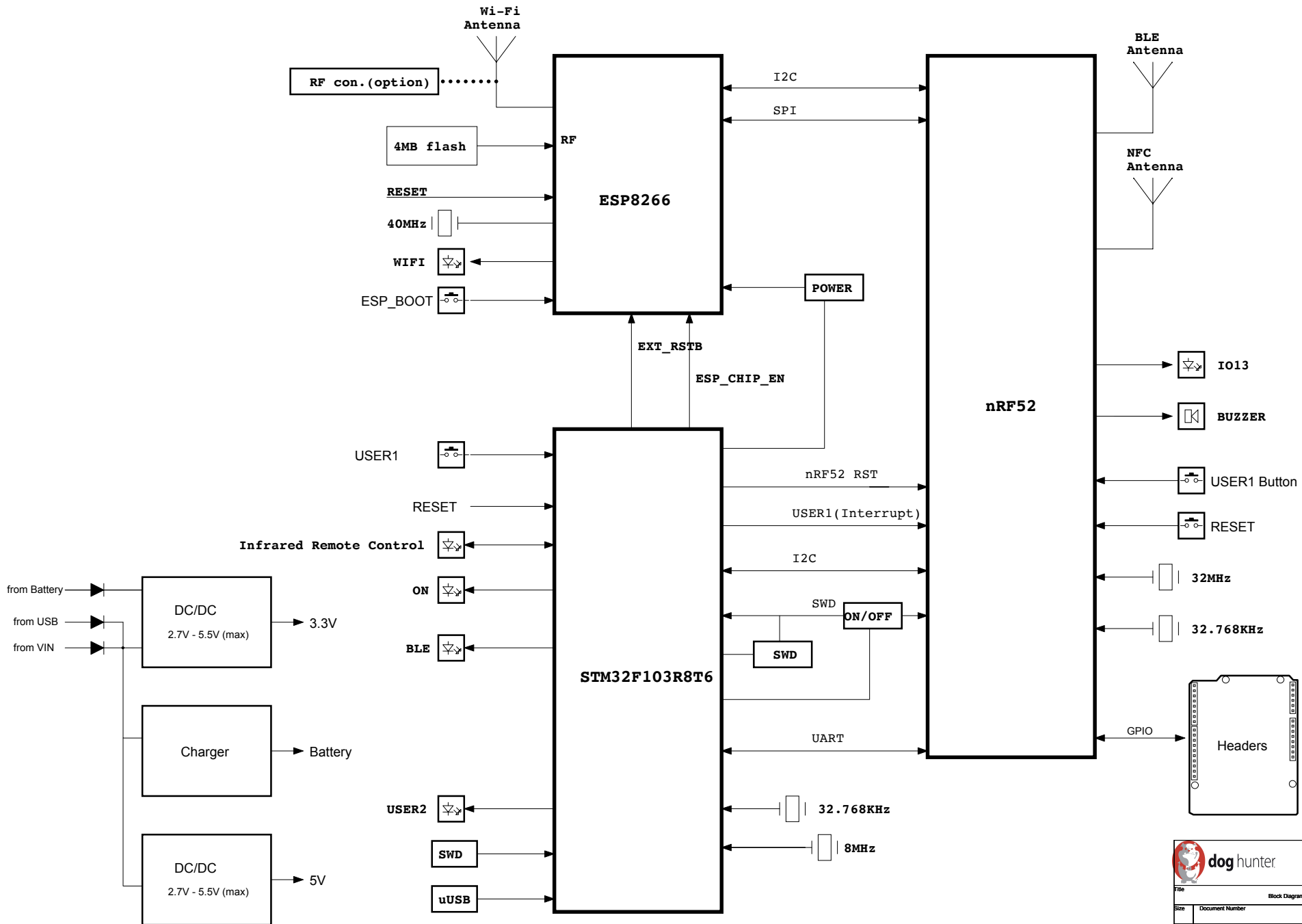
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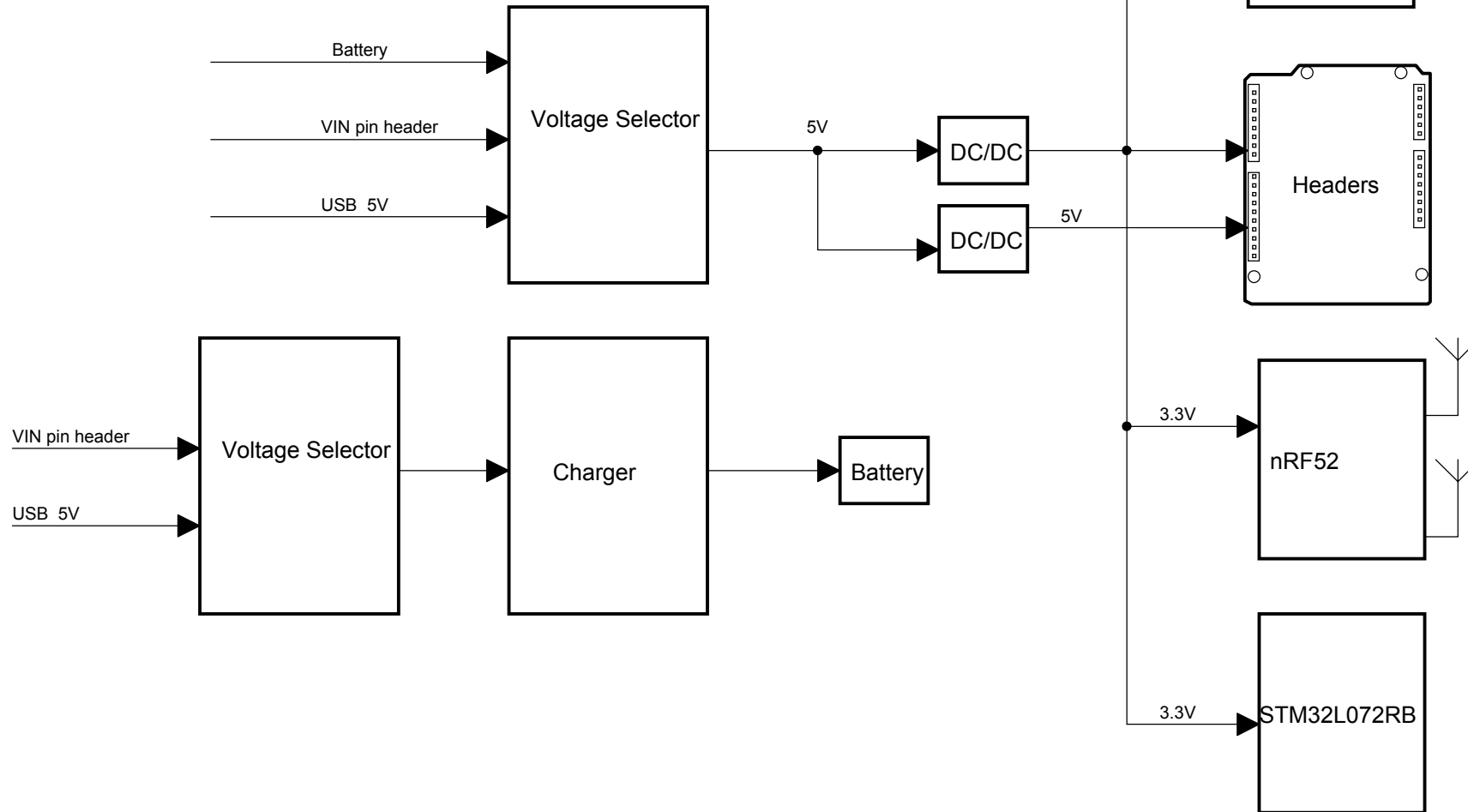
DRAWN BY: Tony

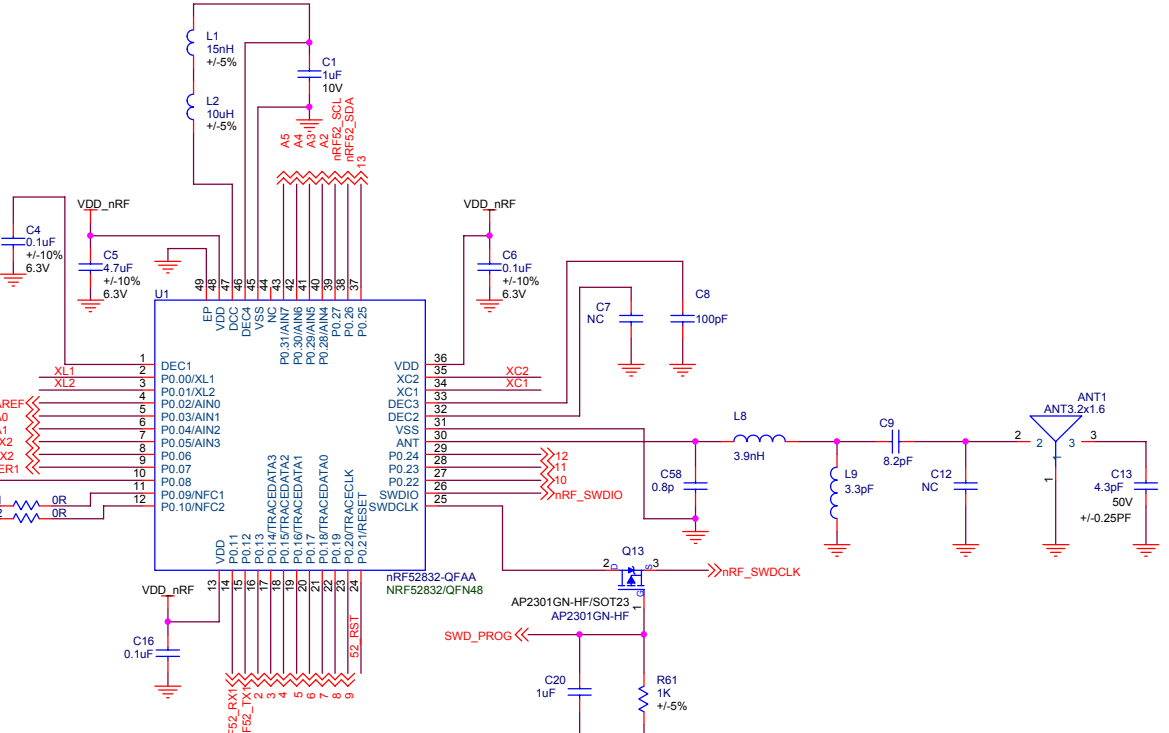
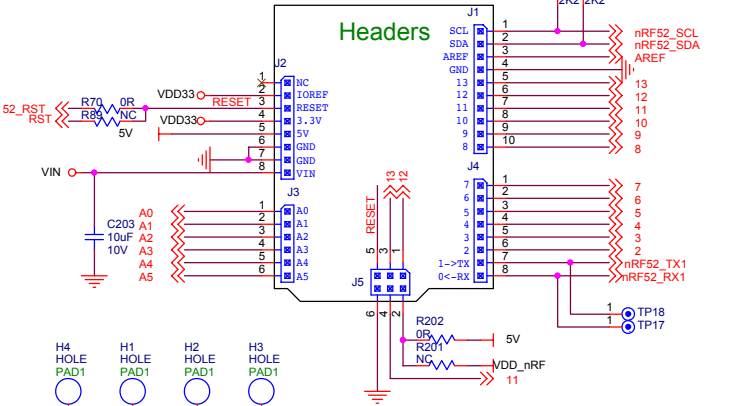
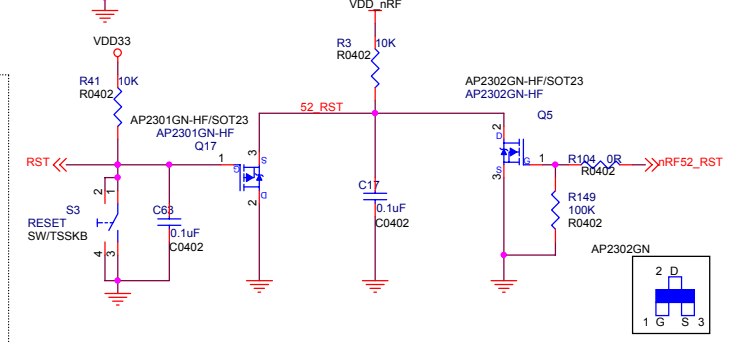
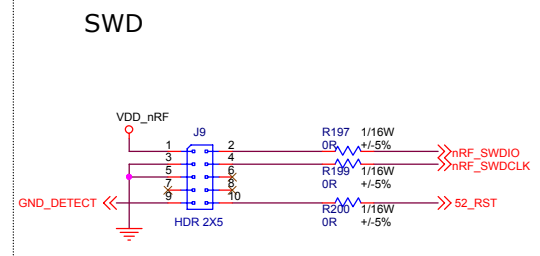
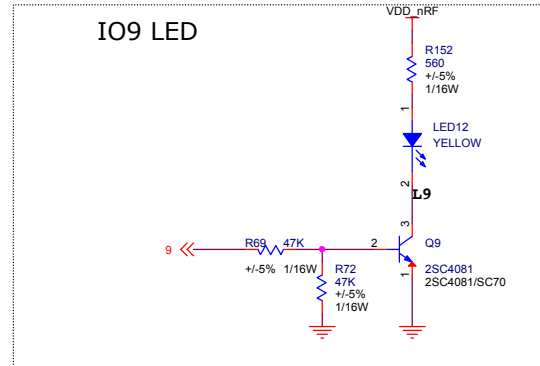
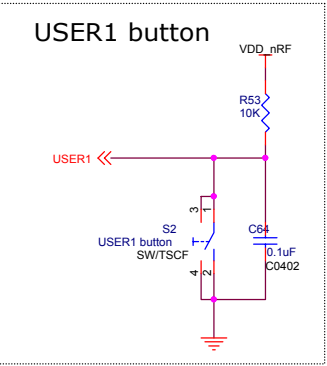
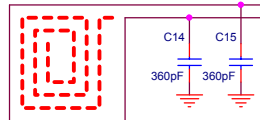
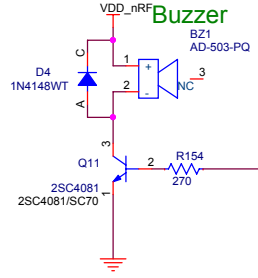
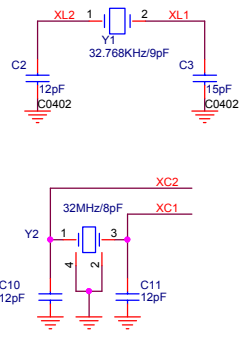
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|  dog hunter. <small>Author = Peter dog hunter Inc. 8F-4, No.17, Ln. 01, Sec. 1, Neihu Rd., Neihu Dist., Taipei City Taiwan (R.O.C.)</small> | | Title Revision History |
| | | Date: Thursday, January 12, 2017 Sheet 1 of 7 |
| Size Document Number | Rev 01 | |


Aduino Primo Block Diagram



Power Block Diagram



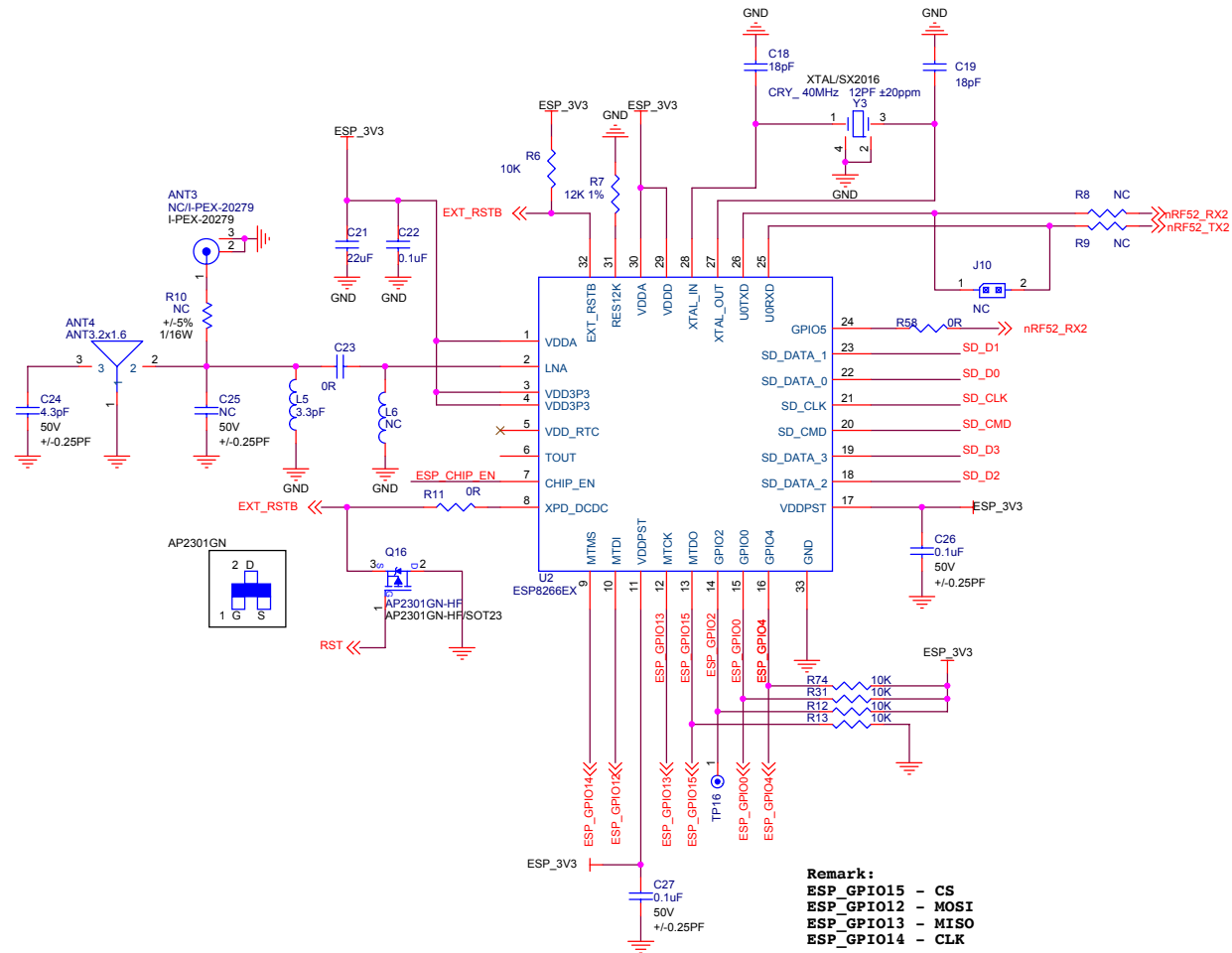




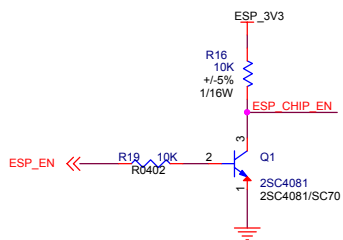
dog hunter

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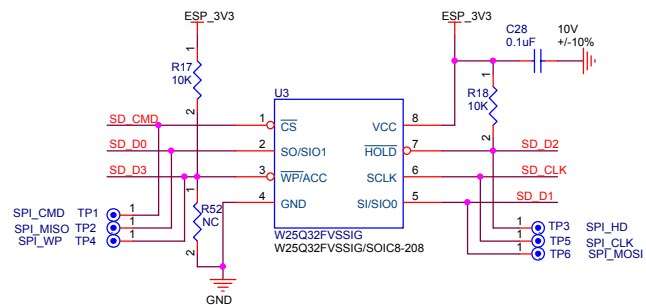
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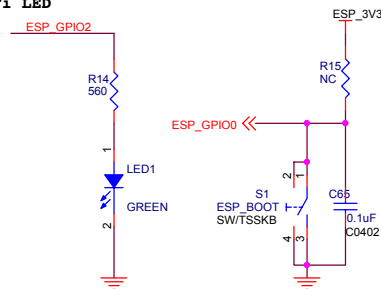
Chip Enable Control



SPI Flash



WiFi LED

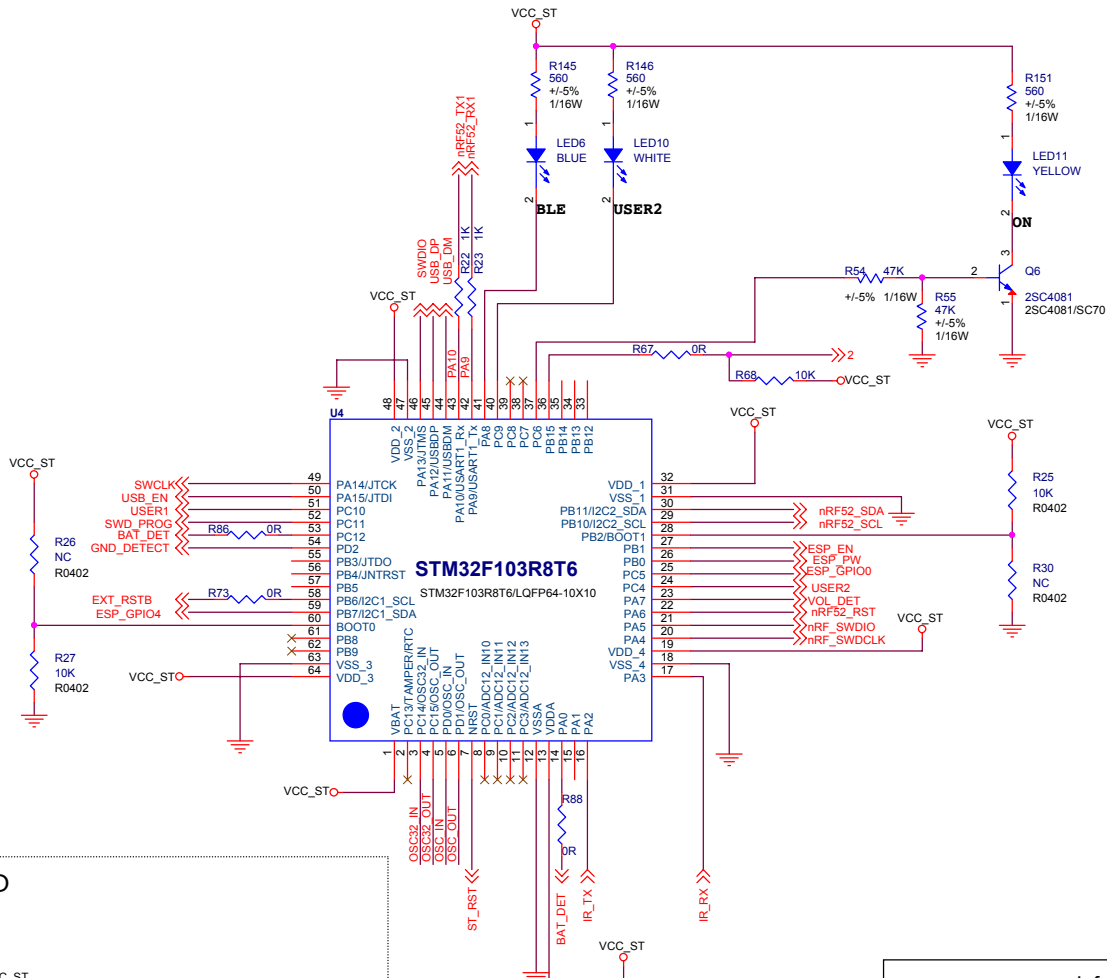


Remark:
ESP_GPIO15 - CS
ESP_GPIO12 - MOSI
ESP_GPIO13 - MISO
ESP_GPIO14 - CLK

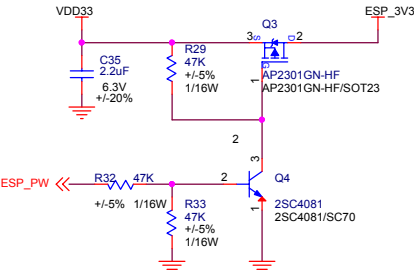
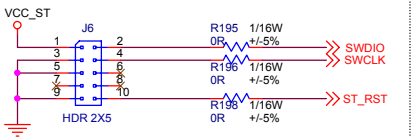
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dog hunter Inc.

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Neihu Rd., Neihu Dist., Taipei City
Taiwan (R.O.C.)

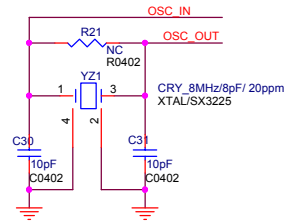
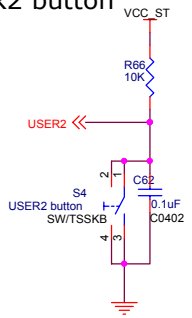
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| ESP8266 | | |
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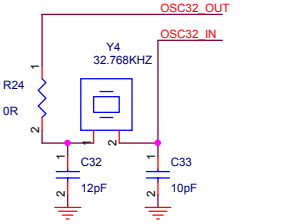
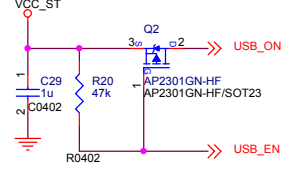
SWD



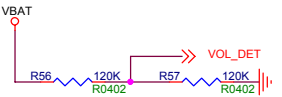
USER2 button



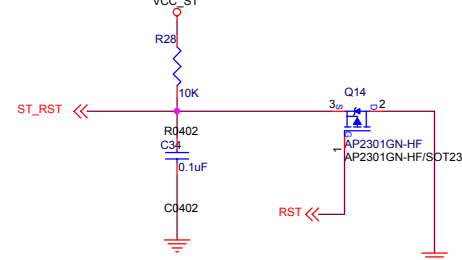
USB Control



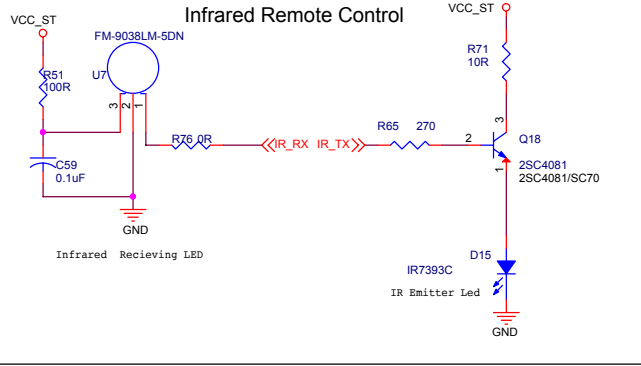
Battery voltage



ST RESET

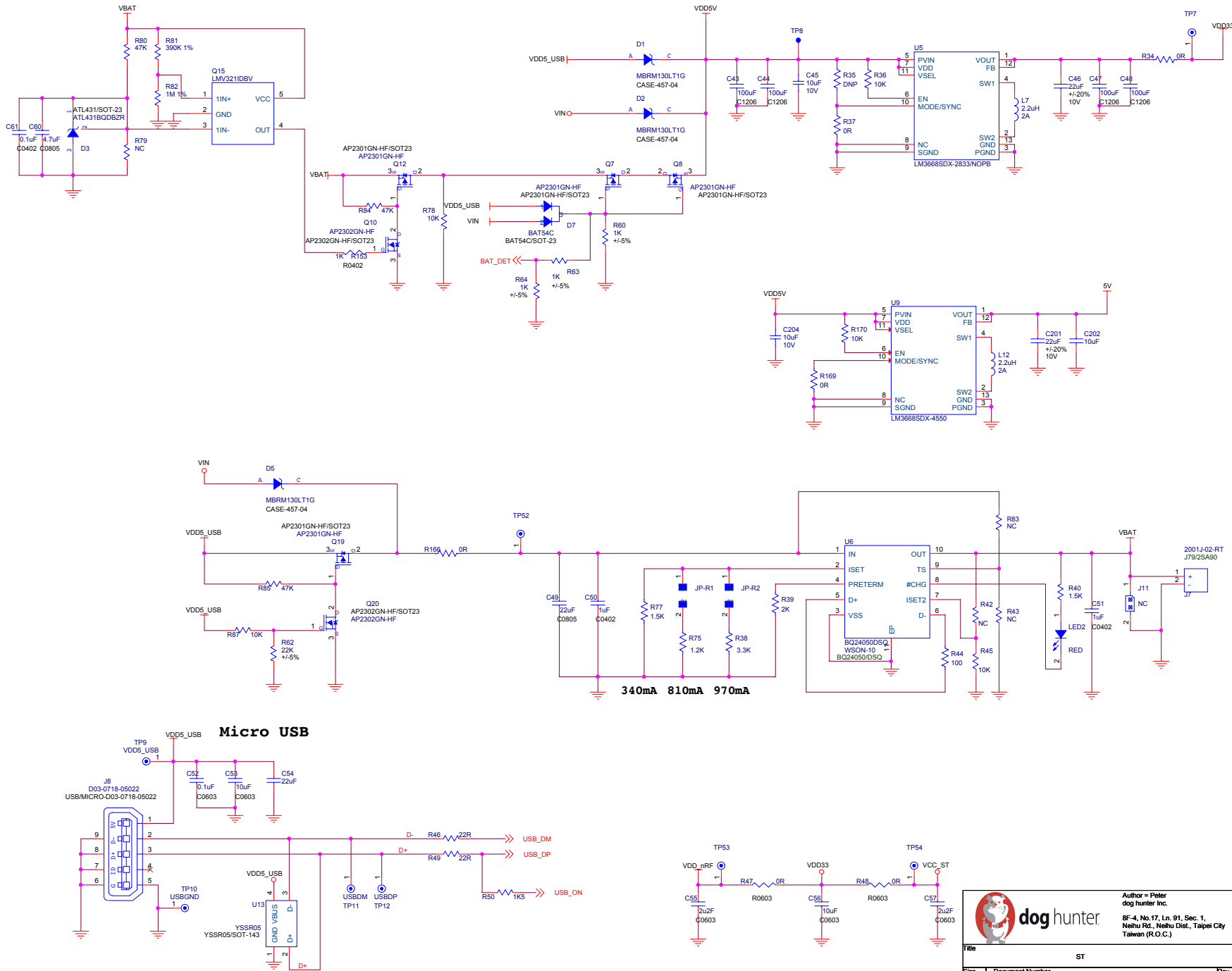


Infrared Remote Control

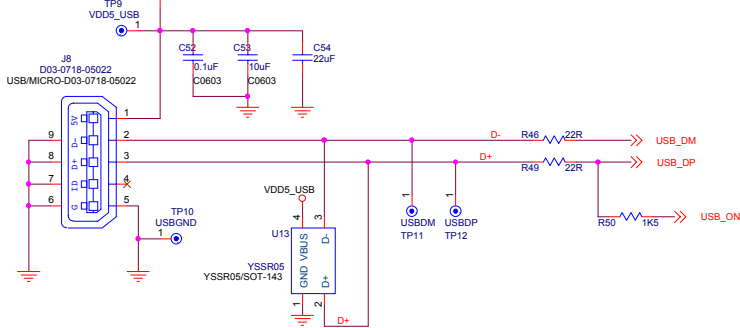



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Micro USB



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|---|----------------------------|--|--------|
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