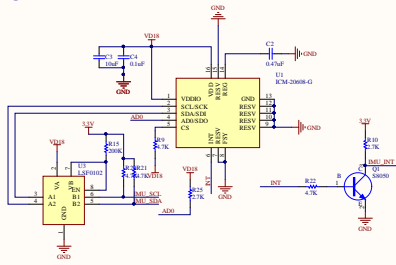
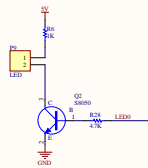


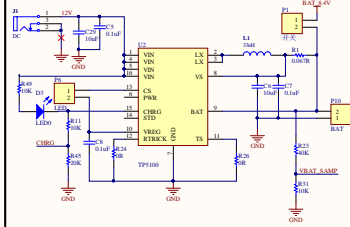
## IMU



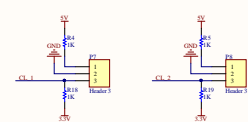
## LED



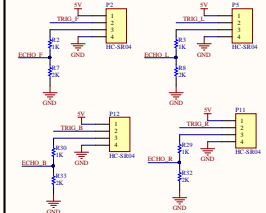
## 充电电路



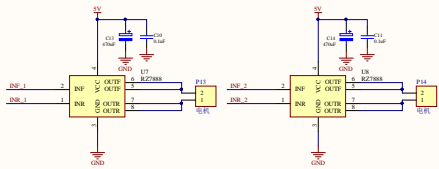
## 车轮转速检测



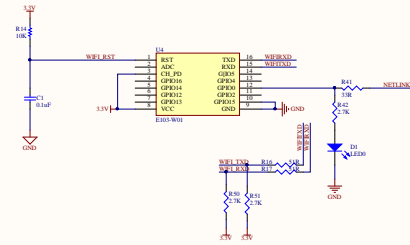
## 超声检测



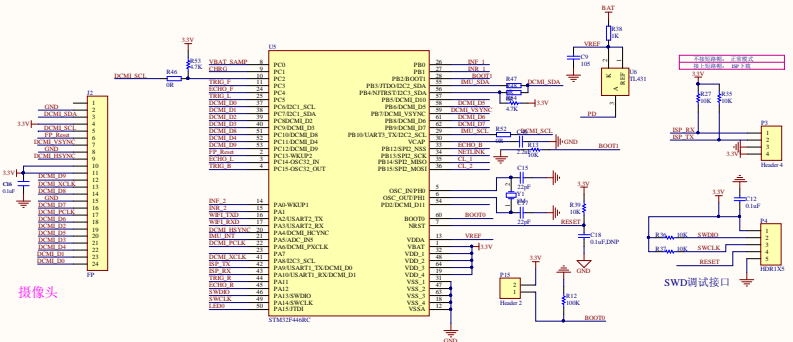
## 电机电路



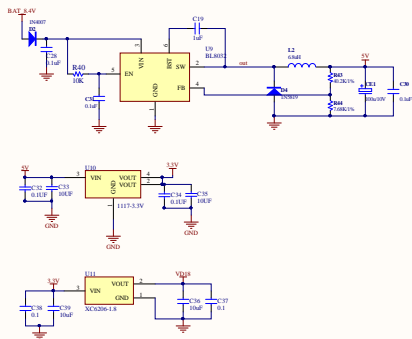
## WiFi通信



摄像头



## 电源电路



# Bill of Materials

<Parameter Title not found>

Source Data From: ZNXC\_V1.0.PrjPcb  
Project: ZNXC\_V1.0.PrjPcb  
Variant: None

Creation Date: 2018/11/4 星期日下午 4:56:36  
Print Date: 43408 43408.70605

| Footprint      | Comment     | LibRef      | Designator                             | Description   | Quantity |
|----------------|-------------|-------------|--|---|----------|
| 0603C          | 0.1uF       | CAP         | C1, C4, C5, C7, C8, C10, C11, C12, C24 | Capacitor   | 12       |
| 0603C          | 0.47uF      | CAP         | C25, C26, C27                          | Capacitor   | 1        |
| 0603C          | 10uF        | CAP         | C2                                     | Capacitor   | 3        |
| SMD0603C       | 105         | CAP         | C3, C6, C29                            | Capacitor   | 1        |
| 0603C          | 470uF       | ELECTRO2    | C9                                     | Capacitor   | 2        |
| 0603C          | 22pF        | CAP         | C13, C14                               | Capacitor   | 2        |
| C0603          | 0.1uF       | CAP         | C15, C17                               | Capacitor   | 4        |
| 0603C          | 0.1uF,DNP   | CAP         | C16, C28, C30, C31                     | Capacitor   | 1        |
| 0603c          | 1uF         | CAP         | C18                                    | Capacitor   | 1        |
| 0603C          | 4.7uF       | Cap         | C19                                    | Capacitor   | 4        |
| 0603C          | Cap         | Cap         | C20, C21, C22, C23                     | Capacitor   | 4        |
| C0603          | 10uF        | C           | C32, C33, C34, C35                     | Capacitor   | 2        |
| C0603          | 0.1         | C           | C36, C39                               | Capacitor   | 2        |
| 0603C          | 2.2uF       | CAP         | C37, C38                               | Capacitor   | 1        |
| CEO_C          | 100u/10V    | CE          | C40                                    | Capacitor   | 1        |
| 0603LED        | LED0        | LED0        | CE1                                    | Typical INFRARED GaAs LED                           | 2        |
| DIODE/DO-214AC | 1N4007      | D           | D1, D3                                 | Diode   | 1        |
| DIODE/DO-214AC | 1N5819      | D           | D2                                     | Diode   | 1        |
| dc5V           | DC          | POWERCON    | D4                                     | Diode   | 1        |
| PFPC24/0.5     | FP          | Header 24   | J1                                     | Header, 24-Pin                                      | 1        |
| IND/7575       | 33uH        | INDUCTOR    | J2                                     | Header, 24-Pin                                      | 1        |
| IND/7575       | 6.8uH       | INDUCTOR    | L1                                     | Header, 2-Pin                                       | 1        |
| CON2           | 开关          | Header 2    | L2                                     | Header, 4-Pin                                       | 1        |
| HDR1X4         | HC-SR04     | Header 4    | P1                                     | Header, 4-Pin                                       | 4        |
| HDR1X4         | Header 4    | Header 4    | P2, P5, P11, P12                       | Header, 4-Pin                                       | 1        |
| SIP4           | HDR1X5      | Header 5    | P3                                     | Header, 5-Pin                                       | 1        |
| CON2           | LED         | Header 2    | P4                                     | Header, 2-Pin                                       | 2        |
| HDR1X3         | Header 3    | Header 3    | P6, P9                                 | Header, 3-Pin                                       | 2        |
| CON2           | BAT         | Header 2    | P7, P8                                 | Header, 2-Pin                                       | 1        |
| CON2           | 电机          | Header 2    | P10                                    | Header, 2-Pin                                       | 2        |
| HDR1X2         | Header 2    | Header 2    | P13, P14                               | Header, 2-Pin                                       | 1        |
| SOT-23         | S8050       | NPN_1       | P15                                    | Header, 2-Pin                                       | 2        |
| 0603C          | 0.067R      | Res1        | Q1, Q2                                 | Resistor  | 8        |
| 0603C          | 1K          | Res1        | R1                                     | Resistor  | 1        |
| 0603R          | 1K          | res1        | R2, R3, R4, R5, R18, R19, R29, R30     | Resistor  | 1        |
| 0603C          | 2K          | Res1        | R6                                     | Resistor  | 1        |
| 0603R          | 4.7K        | res1        | R7, R8, R32, R33                       | Resistor  | 7        |
| 0603R          | 2.7K        | res1        | R9, R20, R21, R22, R28, R53, R54       | Resistor, Resistor, [NoValue], [NoValue], [NoValue] | 5        |
| 0603C          | 10K         | Res1        | R10, R25, R42, R50, R51                | Resistor  | 2        |
| 0603R          | 100K        | res1        | R11, R49                               | Resistor  | 1        |
| 0603R          | 10K         | Res1        | R12                                    | Resistor  | 8        |
| 0603R          | 200K        | res1        | R13, R14, R27, R31, R35, R36, R37, R38 | Resistor  | 1        |
| 0603R          | 51R         | RES1        | R15                                    | Resistor  | 2        |
| 0603R          | 40K         | res1        | R16, R17                               | Resistor  | 1        |
| 0603C          | 0R          | Res1        | R23                                    | Resistor  | 1        |
| SMD0603R       | 1K          | RES         | R24, R26                               | Resistor  | 1        |
| R0603          | 10K         | R           | R38                                    | Resistor  | 1        |
| 0603R          | 33R         | RES1        | R40                                    | Resistor  | 1        |
| R0603          | 40.2K/1%    | R           | R41                                    | Resistor  | 1        |
| R0603          | 7.68K/1%    | R           | R43                                    | Resistor  | 1        |
| 0603C          | 20K         | Res1        | R44                                    | Resistor  | 1        |
| SMD0603R       | 0R          | RES         | R45                                    | Resistor  | 4        |
| 0603C          | ICM-20608-G | DS-000081   | R46, R47, R48, R52                     | Capacitor   | 1        |
| TP4057         | TP5100      | TP5100      | U1                                     | Capacitor   | 1        |
| 0603c          | LSF0102     | LSF0102     | U2                                     | Polarized Capacitor (Radial)                        | 1        |
| E103-W01       | E103-W01    | E103-W01    | U3                                     | Diode   | 1        |
| LQFP64_10X10P  | STM32F446RC | STM32F446RC | U4                                     | Diode   | 1        |
| SOT23_N        | TL431       | TL432       | U5                                     | Diode   | 1        |
| 0603C          | RZ7888      | BL8032      | U6                                     | Polarized Capacitor (Axial)                         | 2        |
| SOT23-6        | 1117-3.3V   | XC6206      | U7, U8                                 | Diode Bridge  | 1        |
| SOT223         | XC6206-1.8  | XTAL        | U9                                     | LDO   | 1        |
| XTAL1          | 8M          | XTAL        | U10                                    | Crystal Oscillator                                  | 1        |

| Approved | Notes |
|----------|-------|
|          |       |
|          |       |
|          |       |
|          |       |