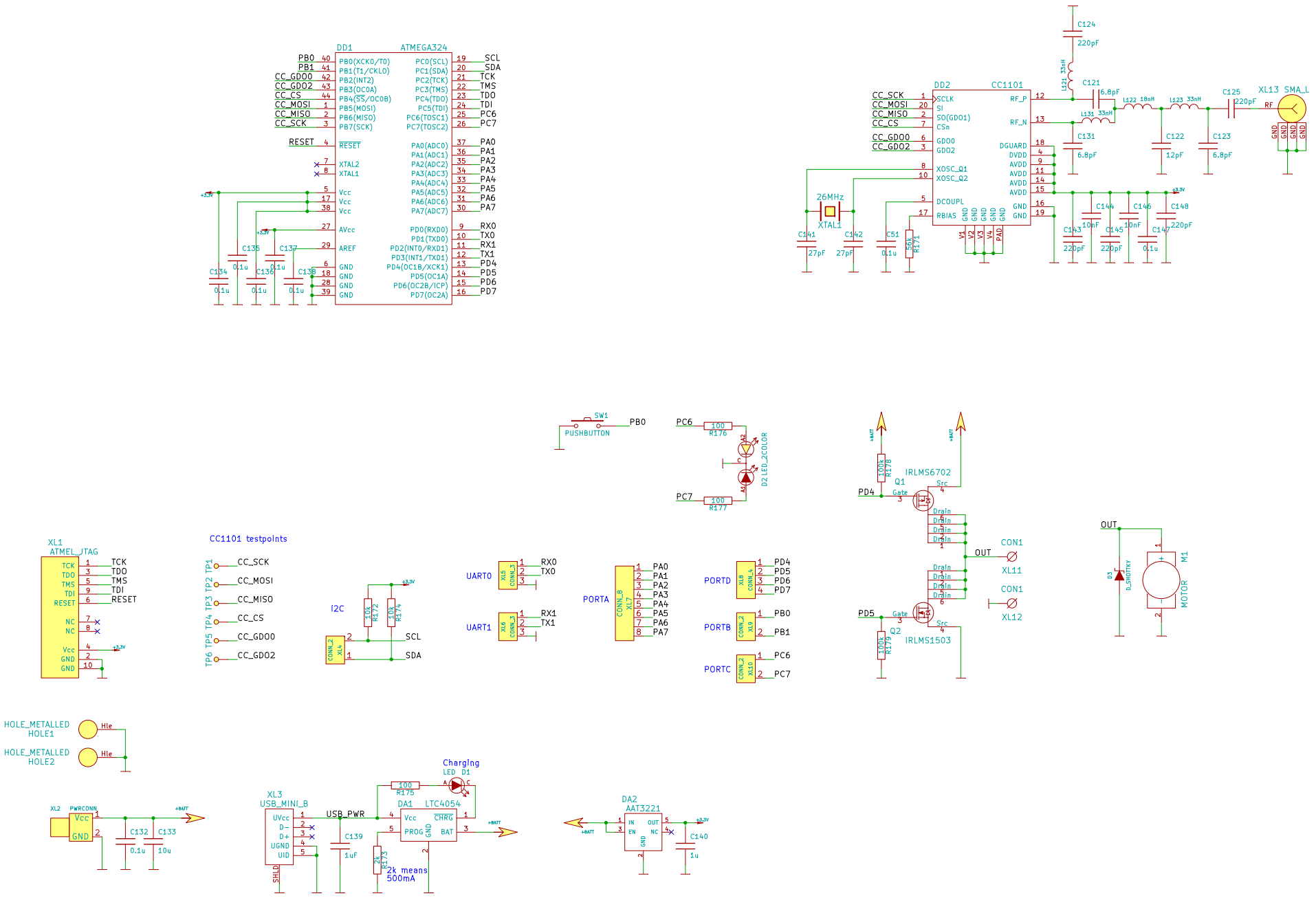
DD1
ATMEGA324
PB0 40 PB0(XCK0/T0)
PB1 41 PB1(T1/CKLO)
CC_GDO0 42 PB2(INT2)
CC_GDO2 43 PB3(OC0A)
CC_CS 44 PB4(SS/OC0B)
CC_MOSI 1 PB5(MOSI)
CC_MISO 2 PB6(MISO)
CC_SCK 3 PB7(SCK)
RESET 4 RESET
7 XTAL2
8 XTAL1
5 Vcc
17 Vcc
38 Vcc
27 AVcc
29 AREF
6 GND
18 GND
28 GND
39 GND
19 PC0(SCL) SCL
20 PC1(SDA) SDA
21 PC2(TCK) TCK
22 PC3(TMS) TMS
23 PC4(TDO) TDO
24 PC5(TDI) TDI
25 PC6(TOSC1) PC6
26 PC7(TOSC2) PC7
37 PA0(ADC0) PA0
36 PA1(ADC1) PA1
35 PA2(ADC2) PA2
34 PA3(ADC3) PA3
33 PA4(ADC4) PA4
32 PA5(ADC5) PA5
31 PA6(ADC6) PA6
30 PA7(ADC7) PA7
9 PD0(RXD0) RX0
10 PD1(TXD0) TX0
11 PD2(INT0/RXD1) RX1
12 PD3(INT1/TXD1) TX1
13 PD4(OC1B/XCK1) PD4
14 PD5(OC1A) PD5
15 PD6(OC2B/ICP) PD6
16 PD7(OC2A) PD7
C134 0.1u
C135 0.1u
C136 0.1u
C137 0.1u
C138 0.1u
+3.3V
DD2
CC1101
CC_SCK 1 SCLK
CC_MOSI 20 SI
CC_MISO 2 SO(GDO1)
CC_CS 7 CSn
CC_GDO0 6 GDO0
CC_GDO2 3 GDO2
8 XOSC_Q1
10 XOSC_Q2
5 DCOUPL
17 RBIAS
12 RF_P
13 RF_N
18 DGUARD
4 DVDD
9 DVDD
11 AVDD
14 AVDD
15 AVDD
16 GND
19 GND
26MHz
XTAL1
C141 27pF
C142 27pF
C51 0.1u
56k R171
C124 220pF
L121 33nH
C121 6.8pF
L122 18nH
L123 33nH
L131 33nH
C131 6.8pF
C122 12pF
C123 6.8pF
C125 220pF
XL13 SMA_L
RF
GND
C143 220pF
C144 10nF
C145 220pF
C146 10nF
C147 0.1u
C148 220pF
SW1
PUSHBUTTON
PB0
PC6 100 R176
PC7 100 R177
D2 LED_2COLOR
+BATT
100k R178
PD4
IRLMS6702
Q1
Gate
Drain
Src
OUT
CON1
XL11
XL12
PD5
100k R179
Q2
IRLMS1503
D3 D_SHOTKY
M1 MOTOR
XL1
ATMEL_JTAG
TCK 1 TCK
TDO 3 TDO
TMS 5 TMS
TDI 9 TDI
RESET 6 RESET
NC 7
NC 8
Vcc 4
GND 2
GND 10
CC1101 testpoints
TP1 CC_SCK
TP2 CC_MOSI
TP3 CC_MISO
TP4 CC_CS
TP5 CC_GDO0
TP6 CC_GDO2
I2C
10k R172
10k R174
CONN_2 XL4
SCL
SDA
UART0
XL5 CONN_3
1 RX0
2 TX0
3
UART1
XL6 CONN_3
1 RX1
2 TX1
3
PORTA
CONN_8 XL7
1 PA0
2 PA1
3 PA2
4 PA3
5 PA4
6 PA5
7 PA6
8 PA7
PORTD
XL8 CONN_4
1 PD4
2 PD5
3 PD6
4 PD7
PORTB
CONN_2 XL9
1 PB0
2 PB1
PORTC
CONN_2 XL10
1 PC6
2 PC7
HOLE_METALLED
HOLE1
HOLE2
Hle
XL2 PWRCONN
Vcc
GND
C132 0.1u
C133 10u
XL3
USB_MINI_B
UVcc 1
D- 2
D+ 3
UGND 4
UID 5
SHLD
USB_PWR
C139 1uF
100 R175
Charging
LED D1
DA1 LTC4054
Vcc
PROG
GND
CHRG
BAT
2k R173
2k means
500mA
DA2
AAT3221
IN
EN
OUT
NC
C140 1u