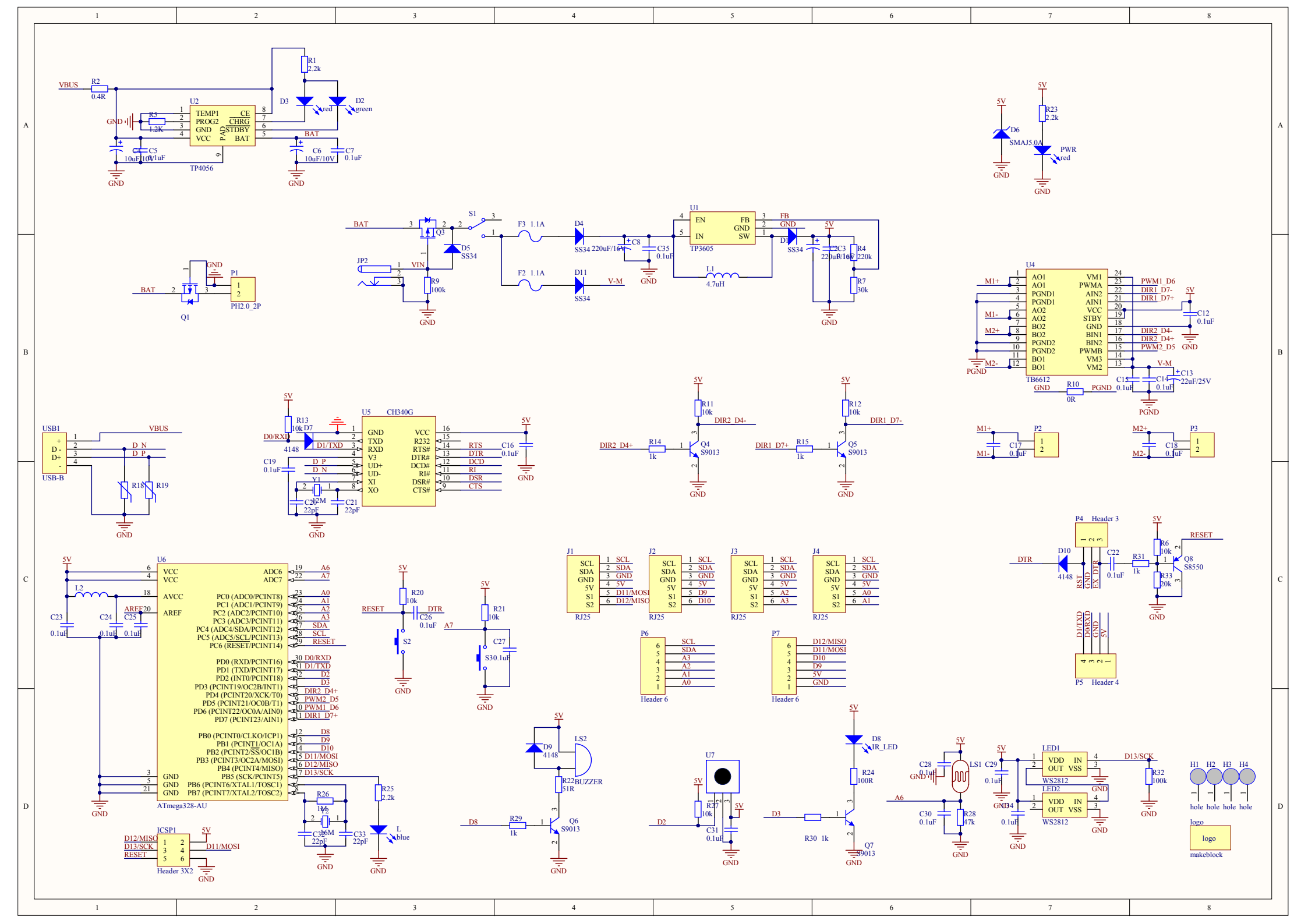

VBUS
R2
0.4R
U2
TEMP1
PROG2
GND
VCC
CE
CHRG
STDBY
BAT
PAD
TP4056
R1
2.2k
D3
red
D2
green
R5
1.2K
C5
10uF/10V
C6
10uF/10V
C7
0.1uF
GND
BAT
Q1
P1
PH2.0_2P
JP2
VIN
R9
100k
Q3
D5
SS34
S1
F3 1.1A
F2 1.1A
D4
SS34
D11
SS34
C8
220uF/16V
C35
0.1uF
U1
EN
IN
FB
GND
SW
TP3605
L1
4.7uH
D1
SS34
C3
220uF/16V
R4
220k
R7
30k
V-M
5V
D6
SMAJ5.0A
R23
2.2k
PWR
red
U4
AO1
PGND1
AO2
BO2
PGND2
BO1
VM1
PWMA
AIN2
AIN1
VCC
STBY
GND
BIN1
BIN2
PWMB
VM3
VM2
TB6612
M1+
M1-
M2+
M2-
PGND
PWM1_D6
DIR1_D7-
DIR1_D7+
DIR2_D4-
DIR2_D4+
PWM2_D5
C12
0.1uF
C13
22uF/25V
C14
0.1uF
C15
0.1uF
R10
0R
USB1
USB-B
D_N
D_P
R18
R19
U5
CH340G
GND
TXD
RXD
V3
UD+
UD-
XI
XO
VCC
R232
RTS#
DTR#
DCD#
RI#
DSR#
CTS#
R13
10k
D7
4148
D0/RXD
D1/TXD
C19
0.1uF
Y1
12M
C20
22pF
C21
22pF
C16
0.1uF
RTS
DTR
DCD
RI
DSR
CTS
R11
10k
R12
10k
DIR2_D4-
DIR1_D7-
R14
1k
R15
1k
Q4
S9013
Q5
S9013
P2
P3
C17
0.1uF
C18
0.1uF
U6
VCC
AVCC
AREF
ATmega328-AU
ADC6
ADC7
PC0 (ADC0/PCINT8)
PC1 (ADC1/PCINT9)
PC2 (ADC2/PCINT10)
PC3 (ADC3/PCINT11)
PC4 (ADC4/SDA/PCINT12)
PC5 (ADC5/SCL/PCINT13)
PC6 (RESET/PCINT14)
PD0 (RXD/PCINT16)
PD1 (TXD/PCINT17)
PD2 (INT0/PCINT18)
PD3 (PCINT19/OC2B/INT1)
PD4 (PCINT20/XCK/T0)
PD5 (PCINT21/OC0B/T1)
PD6 (PCINT22/OC0A/AIN0)
PD7 (PCINT23/AIN1)
PB0 (PCINT0/CLKO/ICP1)
PB1 (PCINT1/OC1A)
PB2 (PCINT2/SS/OC1B)
PB3 (PCINT3/OC2A/MOSI)
PB4 (PCINT4/MISO)
PB5 (SCK/PCINT5)
PB6 (PCINT6/XTAL1/TOSC1)
PB7 (PCINT7/XTAL2/TOSC2)
L2
C23
0.1uF
C24
0.1uF
C25
0.1uF
AREF
A6
A7
A0
A1
A2
A3
SDA
SCL
RESET
D0/RXD
D1/TXD
D2
D3
DIR2_D4+
PWM2_D5
PWM1_D6
DIR1_D7+
D8
D9
D10
D11/MOSI
D12/MISO
D13/SCK
R20
10k
C26
0.1uF
S2
R21
10k
C27
S30.1uF
J1
J2
J3
J4
SCL
SDA
GND
5V
S1
S2
D11/MOSI
D12/MISO
D9
D10
A3
A2
A1
RJ25
P6
P7
Header 6
P4
Header 3
P5
Header 4
D10
4148
C22
0.1uF
R31
1k
R6
10k
R33
20k
Q8
S8550
RST
GND
EX_DTR
D1/TXD
D0/RXD
R25
2.2k
R26
1M
C32
22pF
C33
22pF
L
blue
ICSP1
Header 3X2
D12/MISO
D13/SCK
RESET
D11/MOSI
D9
4148
LS2
BUZZER
R22
51R
R29
1k
Q6
S9013
U7
R27
10k
C31
0.1uF
D8
IR_LED
R24
100R
R30 1k
Q7
S9013
C28
0.1uF
LS1
C29
0.1uF
C30
0.1uF
R28
47k
LED1
LED2
VDD
IN
OUT
VSS
WS2812
D13/SCK
R32
100k
C34
0.1uF
H1
H2
H3
H4
hole
logo
makeblock