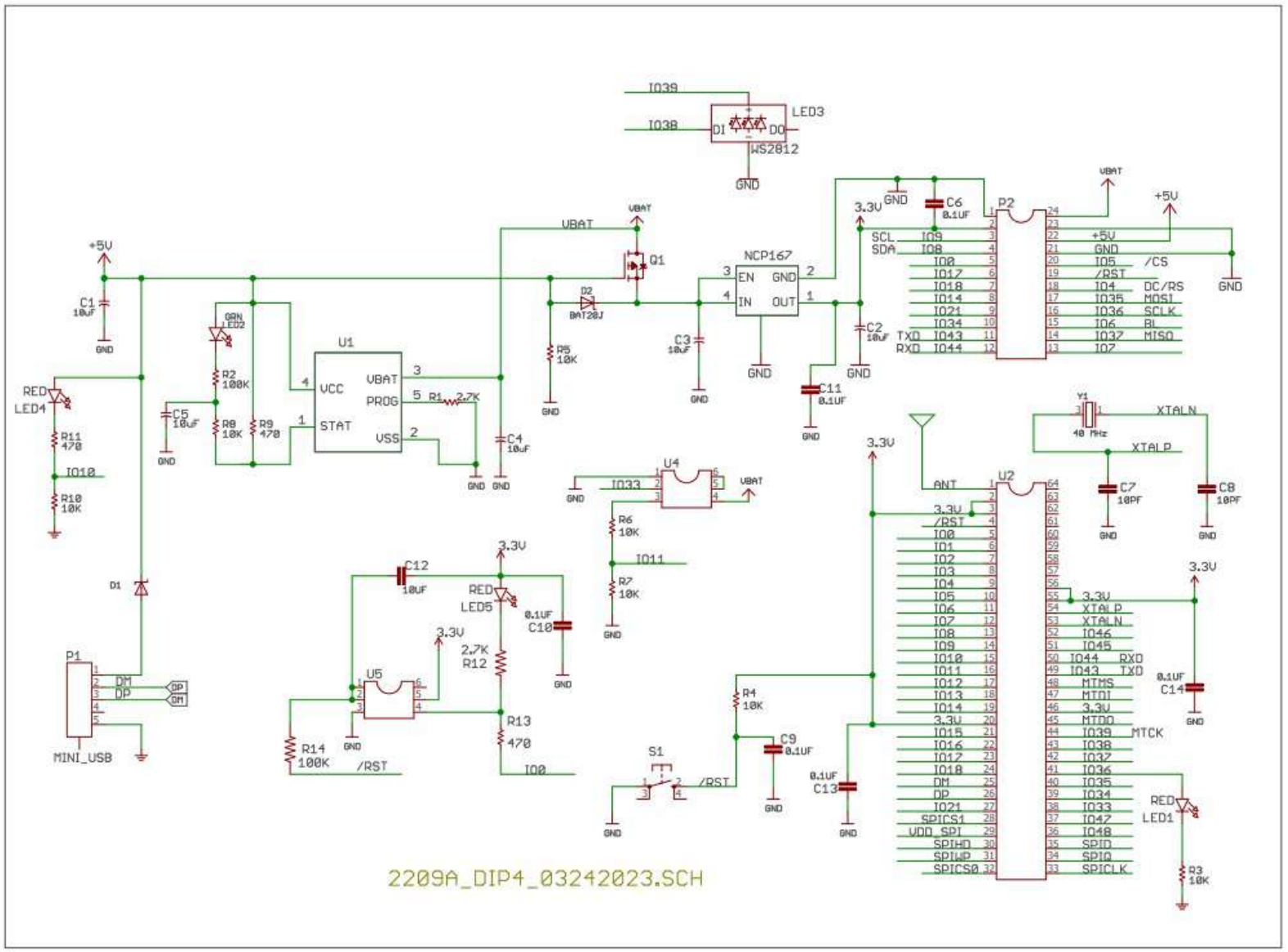
IO39
IO38
LED3
DI
DO
WS2812
GND
VBAT
+5V
3.3V
C6
0.1UF
P2
SCL
SDA
IO9
IO8
IO0
IO17
IO18
IO14
IO21
IO34
TXD IO43
RXD IO44
IO5 /CS
/RST
IO4 DC/RS
IO35 MOSI
IO36 SCLK
IO6 BL
IO37 MISO
IO7
Q1
D2
BAT20J
NCP167
EN GND
IN OUT
C1
10uF
C2
10uF
C3
10uF
C11
0.1UF
R5
10K
U1
VCC
VBAT
PROG
STAT
VSS
R1 2.7K
C4
10uF
C5
10uF
R2
100K
R8
10K
R9
470
GRN LED2
RED
LED4
R11
470
IO10
R10
10K
D1
P1
DM
DP
MINI_USB
U4
IO33
R6
10K
IO11
R7
10K
C12
10UF
RED
LED5
0.1UF
C10
2.7K
R12
U5
R14
100K
/RST
R13
470
IO0
Y1
40 MHz
XTALN
XTALP
C7
10PF
C8
10PF
U2
ANT
/RST
IO0
IO1
IO2
IO3
IO4
IO5
IO6
IO7
IO8
IO9
IO10
IO11
IO12
IO13
IO14
IO15
IO16
IO17
IO18
DM
DP
IO21
SPICS1
VDD_SPI
SPIHD
SPIWP
SPICS0
IO46
IO45
IO44 RXD
IO43 TXD
MTMS
MTDI
MTDO
IO39 MTCK
IO38
IO37
IO36
IO35
IO34
IO33
IO47
IO48
SPID
SPIQ
SPICLK
C14
0.1UF
R4
10K
C9
0.1UF
C13
0.1UF
S1
RED
LED1
R3
10K
2209A_DIP4_03242023.SCH