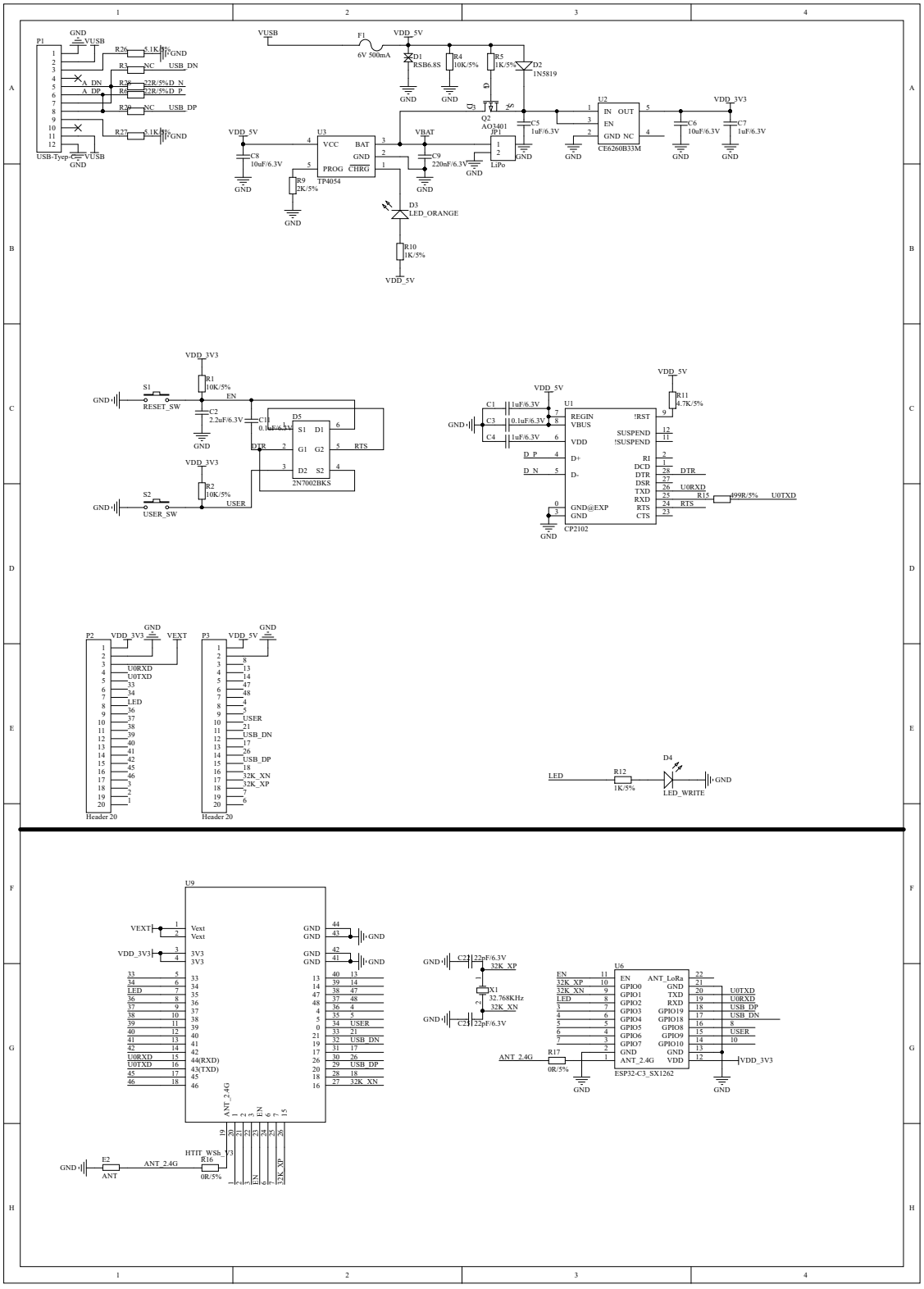
P1
USB-Tyep-C
VUSB
GND
R26 5.1K/1%
R3 NC
R28 22R/5%
R6 22R/5%
R29 NC
R27 5.1K/1%
A_DN
A_DP
D_N
D_P
USB_DN
USB_DP
F1 6V 500mA
VDD_5V
D1 RSB6.8S
R4 10K/5%
R5 1K/5%
D2 1N5819
Q2 AO3401
JP1
LiPo
C5 1uF/6.3V
U2 CE6260B33M
IN OUT
EN
GND NC
C6 10uF/6.3V
C7 1uF/6.3V
VDD_3V3
U3 TP4054
VCC BAT
GND
PROG CHRG
VBAT
C8 10uF/6.3V
C9 220nF/6.3V
R9 2K/5%
D3 LED_ORANGE
R10 1K/5%
S1 RESET_SW
S2 USER_SW
R1 10K/5%
R2 10K/5%
EN
USER
C2 2.2uF/6.3V
C1 0.1uF/6.3V
D5 2N7002BKS
S1 D1
G1 G2
D2 S2
DTR
RTS
U1 CP2102
REGIN
VBUS
VDD
D+
D-
GND@EXP
GND
!RST
SUSPEND
!SUSPEND
RI
DCD
DTR
DSR
TXD
RXD
RTS
CTS
C1 1uF/6.3V
C3 0.1uF/6.3V
C4 1uF/6.3V
R11 4.7K/5%
R15 499R/5%
U0TXD
U0RXD
P2 Header 20
VDD_3V3
VEXT
U0RXD
U0TXD
LED
P3 Header 20
USER
USB_DN
USB_DP
32K_XN
32K_XP
R12 1K/5%
D4 LED_WRITE
U9
Vext
3V3
GND
U0RXD
U0TXD
LED
USER
USB_DN
USB_DP
32K_XN
32K_XP
ANT_2.4G
EN
E2 ANT
R16 0R/5%
HTIT_WSh_V3
C22 22pF/6.3V
C23 22pF/6.3V
X1 32.768KHz
U6 ESP32-C3_SX1262
EN
32K_XP
32K_XN
LED
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GND
ANT_2.4G
ANT_LoRa
TXD
RXD
GPIO18
GPIO8
GPIO9
GPIO10
VDD
R17 0R/5%