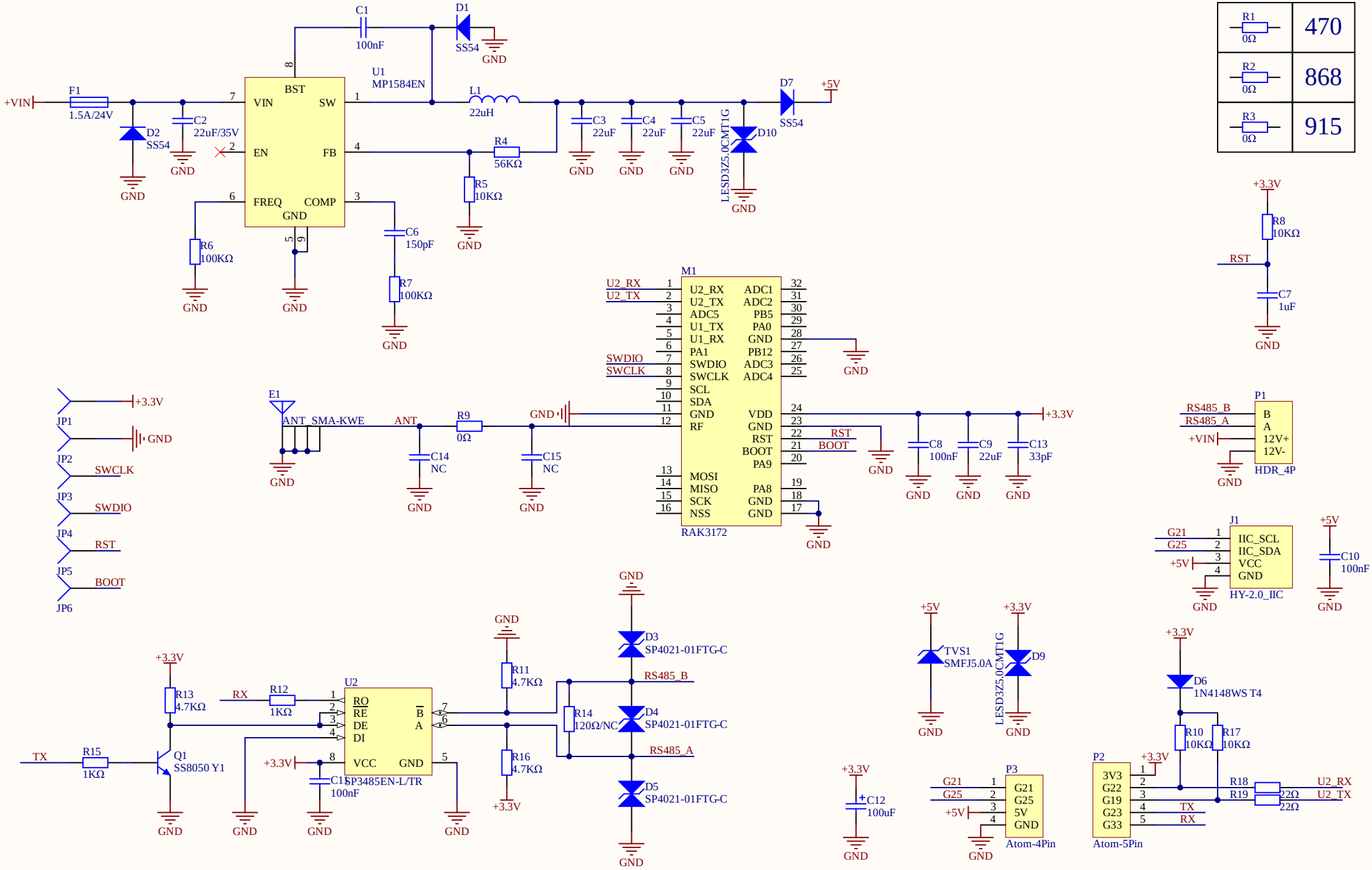
R1 0Ω 470
R2 0Ω 868
R3 0Ω 915
U1 MP1584EN
BST
VIN
SW
EN
FB
FREQ
COMP
GND
C1 100nF
D1 SS54
F1 1.5A/24V
C2 22uF/35V
D2 SS54
L1 22uH
C3 22uF
C4 22uF
C5 22uF
D7 SS54
D10 LESD3Z5.0CMT1G
R4 56KΩ
R5 10KΩ
R6 100KΩ
R7 100KΩ
C6 150pF
M1
RAK3172
U2_RX
U2_TX
ADC5
U1_TX
U1_RX
PA1
SWDIO
SWCLK
SCL
SDA
RF
MOSI
MISO
SCK
NSS
ADC1
ADC2
PB5
PA0
PB12
ADC3
ADC4
VDD
RST
BOOT
PA9
PA8
R8 10KΩ
C7 1uF
JP1
JP2
JP3
JP4
JP5
JP6
E1 ANT_SMA-KWE
R9 0Ω
C14 NC
C15 NC
C8 100nF
C9 22uF
C13 33pF
P1 HDR_4P
RS485_B
RS485_A
J1 HY-2.0_IIC
IIC_SCL
IIC_SDA
C10 100nF
U2 SP3485EN-L/TR
R11 4.7KΩ
R12 1KΩ
R13 4.7KΩ
R14 120Ω/NC
R15 1KΩ
R16 4.7KΩ
C11 100nF
Q1 SS8050 Y1
D3 SP4021-01FTG-C
D4 SP4021-01FTG-C
D5 SP4021-01FTG-C
TVS1 SMFJ5.0A
D9 LESD3Z5.0CMT1G
D6 1N4148WS T4
R10 10KΩ
R17 10KΩ
R18 22Ω
R19 22Ω
C12 100uF
P3 Atom-4Pin
P2 Atom-5Pin