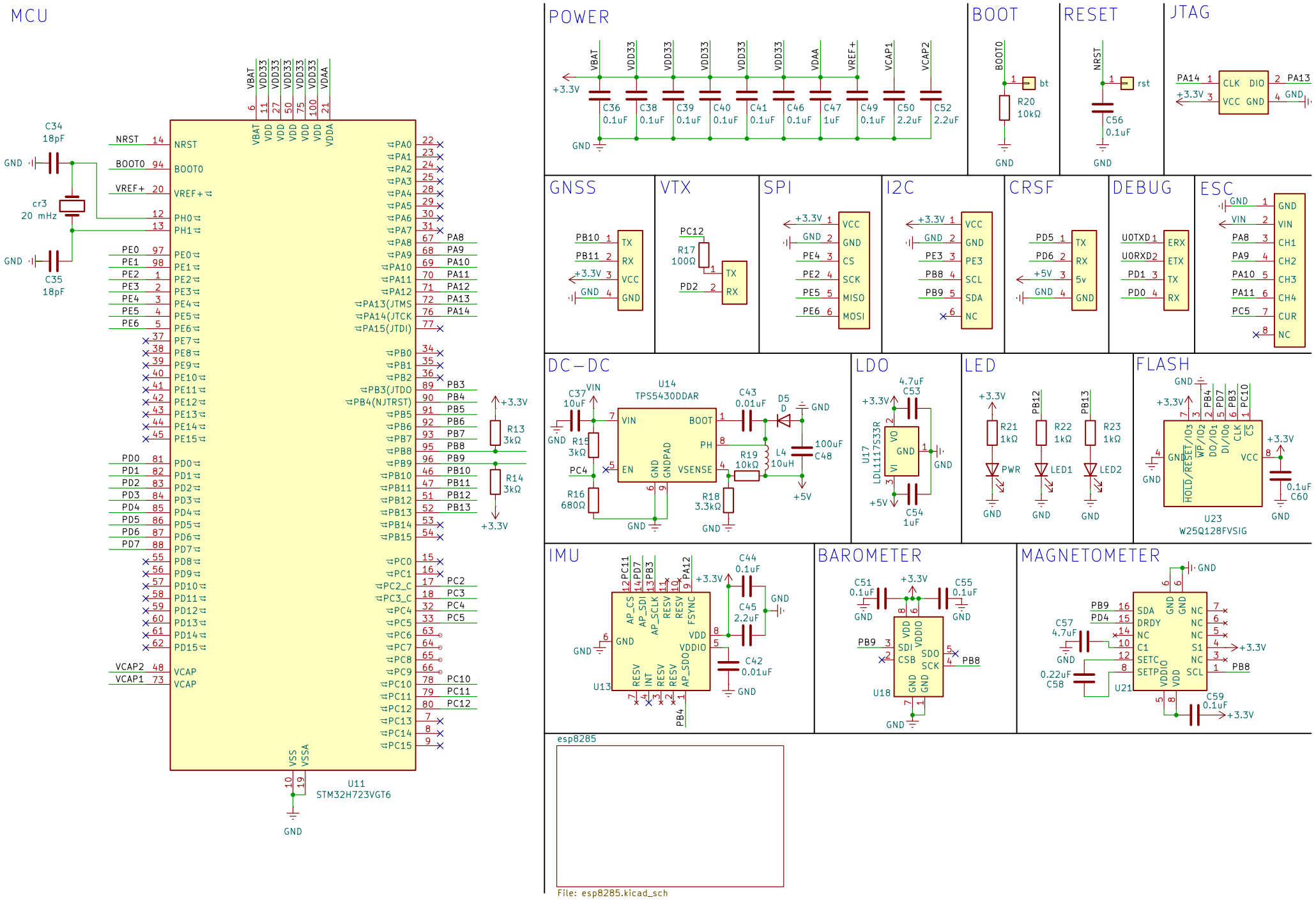
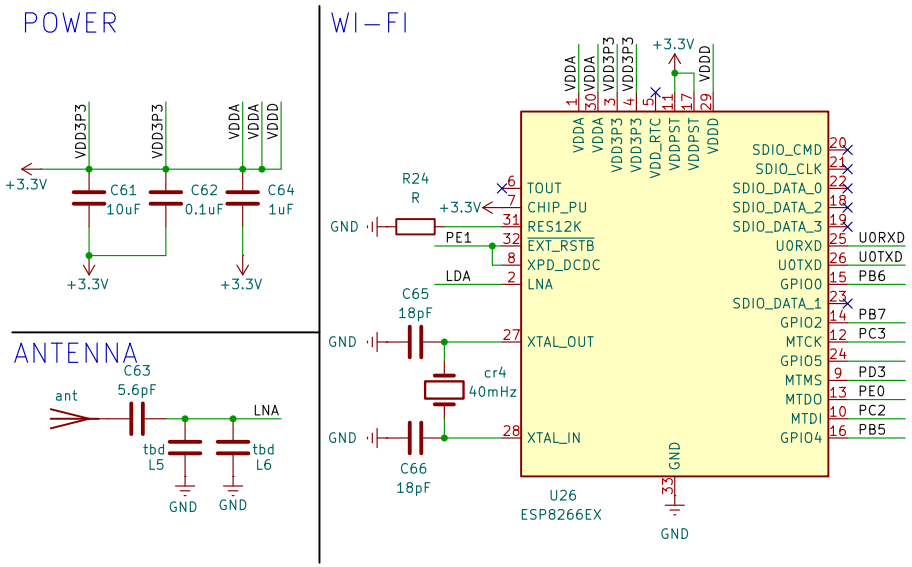

MCU
POWER
BOOT
RESET
JTAG
GNSS
VTX
SPI
I2C
CRSF
DEBUG
ESC
DC-DC
LDO
LED
FLASH
IMU
BAROMETER
MAGNETOMETER
esp8285
File: esp8285.kicad_sch
U11
STM32H723VGT6
U14
TPS5430DDAR
U23
W25Q128FVSIG


POWER
VDD3P3
VDD3P3
VDDA
VDDA
VDDD
+3.3V
C61
10uF
C62
0.1uF
C64
1uF
+3.3V
+3.3V
ANTENNA
ant
C63
5.6pF
LNA
tbd
L5
tbd
L6
GND
GND
WI—FI
+3.3V
1 VDDA
30 VDDA
3 VDD3P3
4 VDD3P3
5
11
17
29 VDDD
VDDA
VDDA
VDD3P3
VDD3P3
VDD_RTC
VDDPST
VDDPST
VDDD
R24
R
6
TOUT
+3.3V
7
CHIP_PU
GND
31
RES12K
PE1
32
EXT_RSTB
8
XPD_DCDC
LDA
2
LNA
C65
18pF
GND
27
XTAL_OUT
cr4
40mHz
GND
28
XTAL_IN
C66
18pF
U26
ESP8266EX
GND
33
GND
SDIO_CMD
20
SDIO_CLK
21
SDIO_DATA_0
22
SDIO_DATA_2
18
SDIO_DATA_3
19
U0RXD
25
U0RXD
U0TXD
26
U0TXD
GPIO0
15
PB6
SDIO_DATA_1
23
GPIO2
14
PB7
MTCK
12
PC3
GPIO5
24
MTMS
9
PD3
MTDO
13
PE0
MTDI
10
PC2
GPIO4
16
PB5