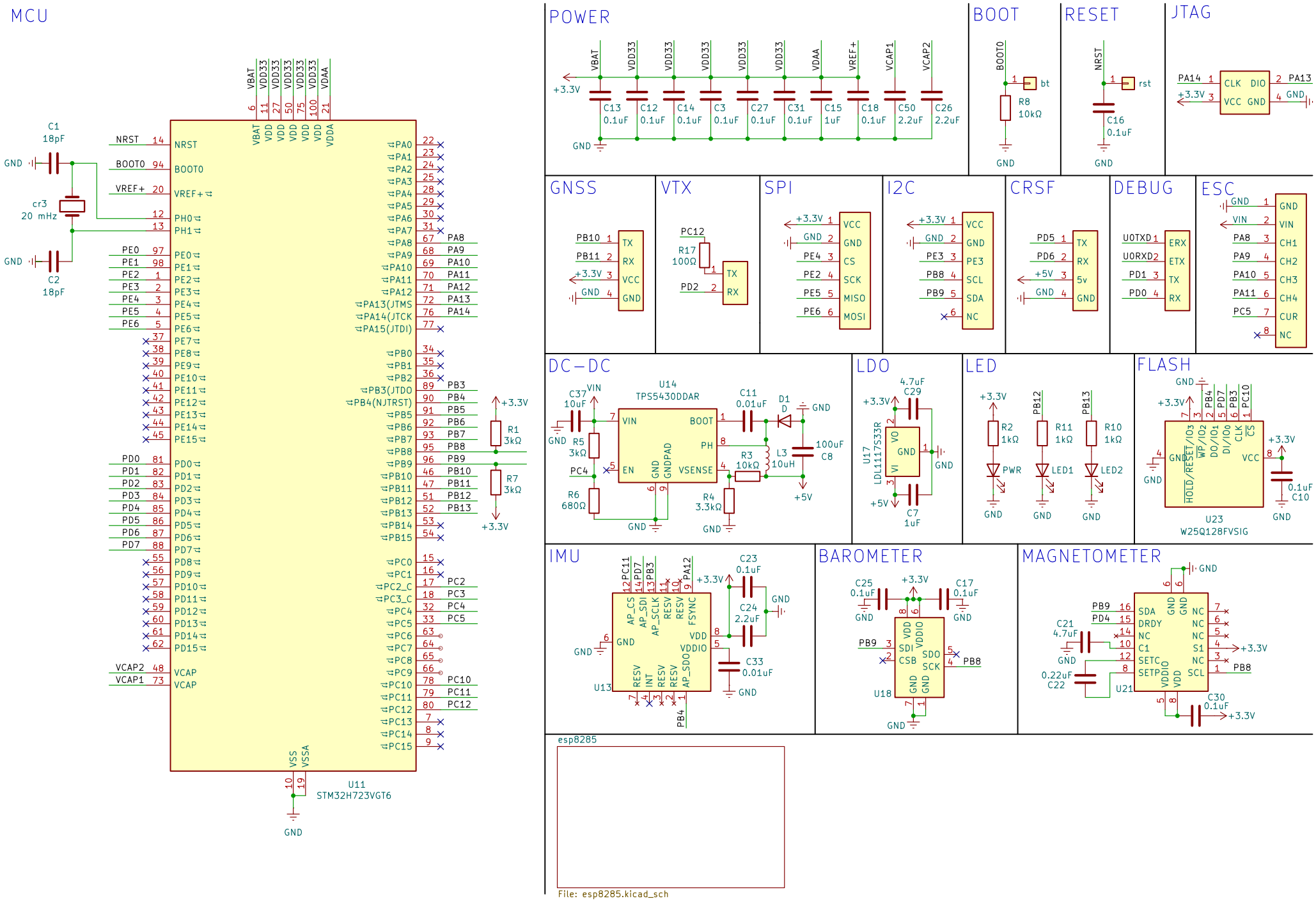
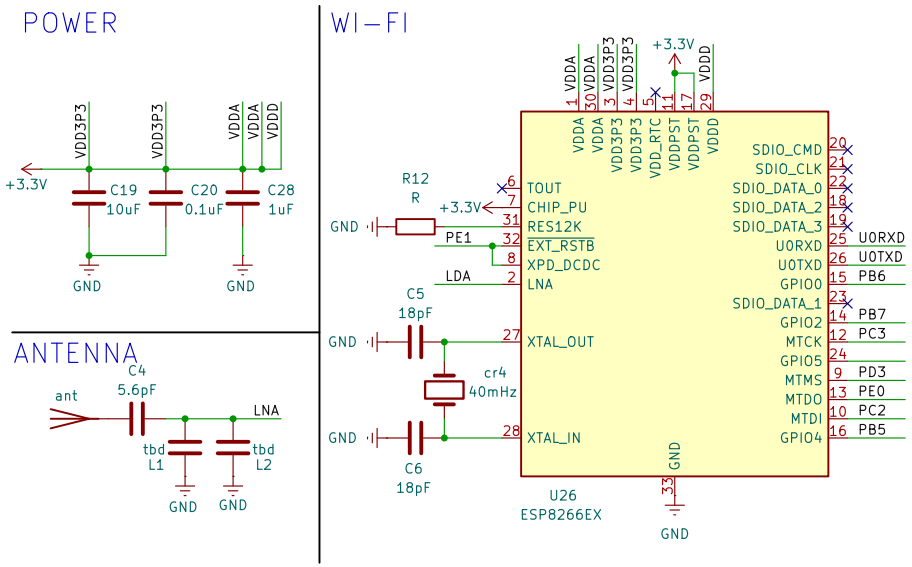

MCU
POWER
BOOT
RESET
JTAG
GNSS
VTX
SPI
I2C
CRSF
DEBUG
ESC
DC-DC
LDO
LED
FLASH
IMU
BAROMETER
MAGNETOMETER
esp8285
U11
STM32H723VGT6
U14
TPS5430DDAR
U23
W25Q128FVSIG
File: esp8285.kicad_sch


POWER
VDD3P3
VDD3P3
VDDA
VDDA
VDDD
+3.3V
C19
10uF
C20
0.1uF
C28
1uF
GND
GND
ANTENNA
ant
C4
5.6pF
LNA
tbd
L1
tbd
L2
GND
GND
WI—FI
+3.3V
R12
R
+3.3V
GND
PE1
LDA
C5
18pF
GND
cr4
40mHz
GND
C6
18pF
U26
ESP8266EX
GND
1 VDDA
30 VDDA
3 VDD3P3
4 VDD3P3
5
11
17
29 VDDD
VDDA
VDDA
VDD3P3
VDD3P3
VDD_RTC
VDDPST
VDDPST
VDDD
6 TOUT
7 CHIP_PU
31 RES12K
32 EXT_RSTB
8 XPD_DCDC
2 LNA
27 XTAL_OUT
28 XTAL_IN
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