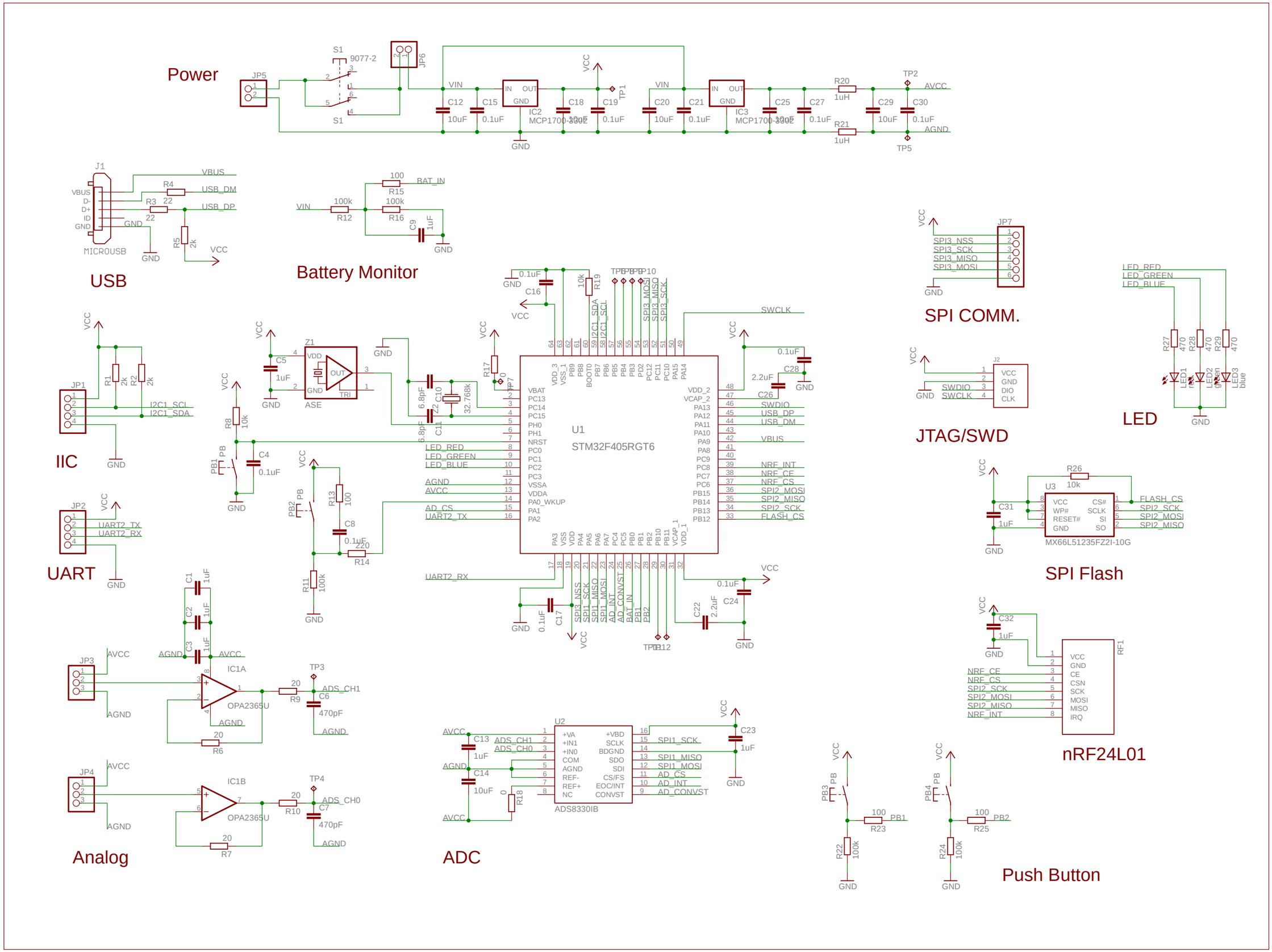
Power
JP5
S1
9077-2
JP6
VIN
C12
10uF
C15
0.1uF
IN OUT
GND
IC2
MCP1700-3302
C18
10uF
C19
0.1uF
VCC
TP1
C20
10uF
C21
0.1uF
IC3
MCP1700-3302
C25
10uF
C27
0.1uF
R20
1uH
R21
1uH
C29
10uF
C30
0.1uF
TP2
AVCC
AGND
TP5
J1
MICROUSB
VBUS
D-
D+
ID
GND
R4
22
R3
22
USB_DM
USB_DP
R5
2k
USB
R15
100
BAT_IN
R12
100k
R16
100k
C9
1uF
Battery Monitor
JP7
SPI3_NSS
SPI3_SCK
SPI3_MISO
SPI3_MOSI
SPI COMM.
LED_RED
LED_GREEN
LED_BLUE
R27
470
R28
470
R29
470
LED1
LED2
green
LED3
blue
LED
J2
VCC
GND
DIO
CLK
SWDIO
SWCLK
JTAG/SWD
JP1
R1
2k
R2
2k
I2C1_SCL
I2C1_SDA
IIC
JP2
UART2_TX
UART2_RX
UART
Z1
VDD
OUT
GND
TRI
ASE
C5
1uF
R8
10k
PB1
PB
C4
0.1uF
PB2
R13
100
C8
0.1uF
R14
220
R11
100k
6.8pF
C10
C11
32.768k
R17
0
TP7
U1
STM32F405RGT6
VBAT
PC13
PC14
PC15
PH0
PH1
NRST
PC0
PC1
PC2
PC3
VSSA
VDDA
PA0_WKUP
PA1
PA2
LED_RED
LED_GREEN
LED_BLUE
AGND
AVCC
AD_CS
UART2_TX
UART2_RX
VDD_2
VCAP_2
PA13
PA12
PA11
PA10
PA9
PA8
PC9
PC8
PC7
PC6
PB15
PB14
PB13
PB12
SWDIO
USB_DP
USB_DM
VBUS
NRF_INT
NRF_CE
NRF_CS
SPI2_MOSI
SPI2_MISO
SPI2_SCK
FLASH_CS
SWCLK
SPI3_MOSI
SPI3_MISO
SPI3_SCK
I2C1_SDA
I2C1_SCL
C16
0.1uF
10k
R19
C28
0.1uF
2.2uF
C26
C17
0.1uF
C22
2.2uF
C24
0.1uF
TP12
R26
10k
U3
VCC
WP#
RESET#
GND
CS#
SCLK
SI
SO
MX66L51235FZ2I-10G
C31
1uF
SPI Flash
C32
1uF
RF1
NRF_CE
NRF_CS
SPI2_SCK
SPI2_MOSI
SPI2_MISO
NRF_INT
CE
CSN
SCK
MOSI
MISO
IRQ
nRF24L01
C1
1uF
C2
1uF
C3
1uF
JP3
IC1A
OPA2365U
R9
20
TP3
ADS_CH1
C6
470pF
R6
20
JP4
IC1B
OPA2365U
R10
20
TP4
ADS_CH0
C7
470pF
R7
20
Analog
U2
ADS8330IB
+VA
+IN1
+IN0
COM
AGND
REF-
REF+
NC
+VBD
SCLK
BDGND
SDO
SDI
CS/FS
EOC/INT
CONVST
C13
1uF
C14
10uF
R18
0
C23
1uF
SPI1_SCK
SPI1_MISO
SPI1_MOSI
AD_CS
AD_INT
AD_CONVST
ADC
PB3
PB
R23
100
PB1
R22
100k
PB4
PB
R25
100
PB2
R24
100k
Push Button