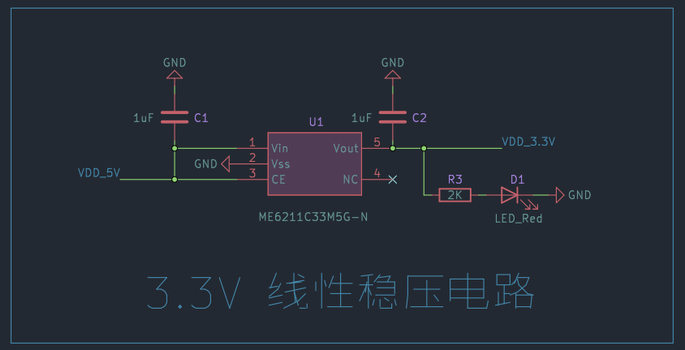
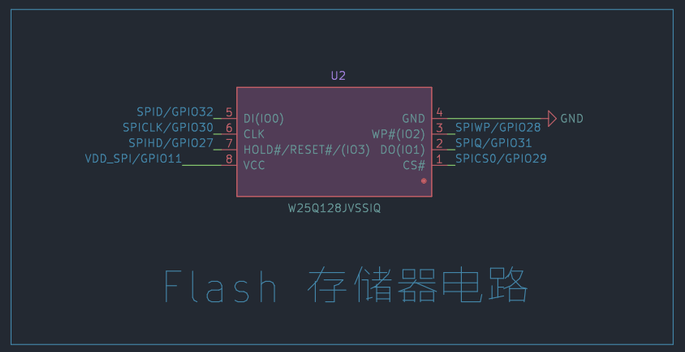
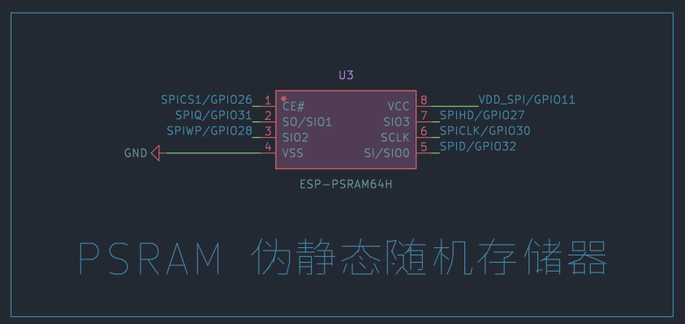
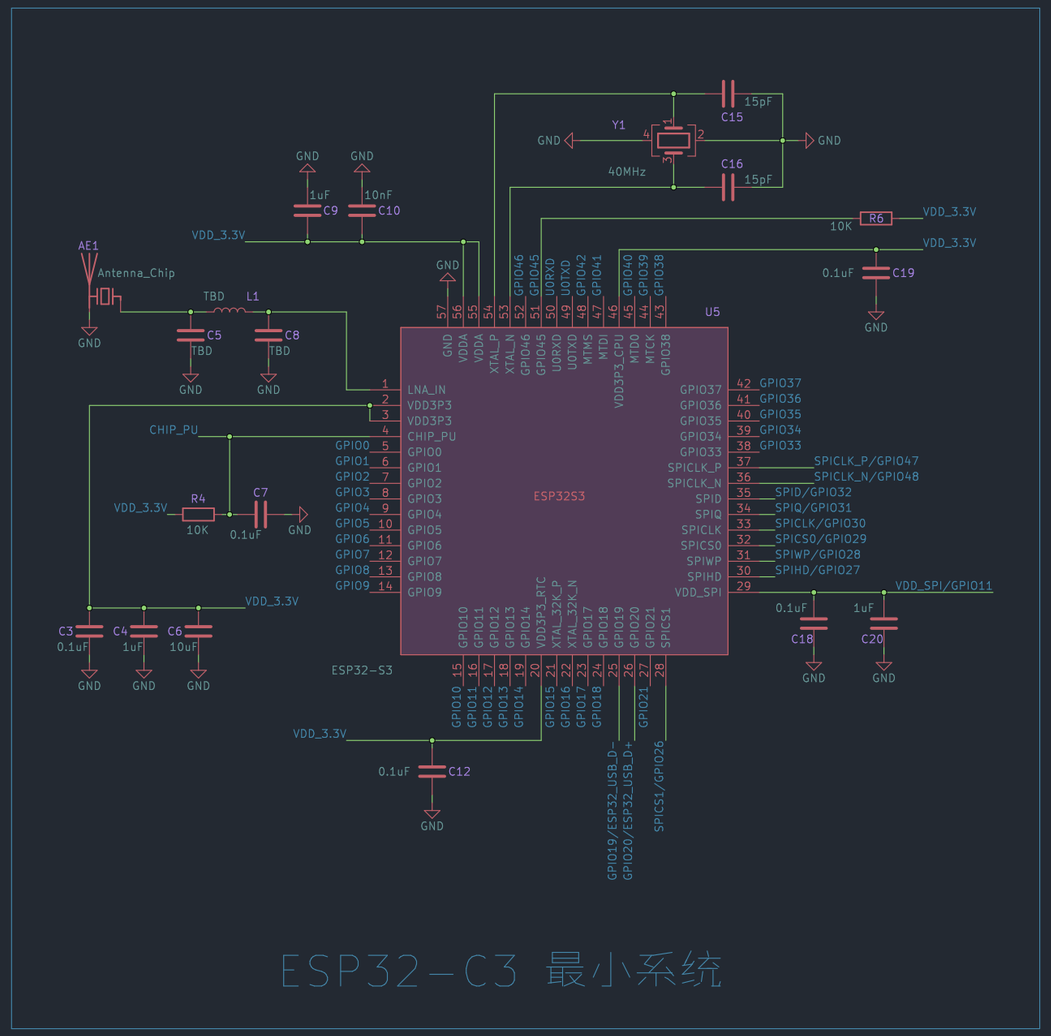
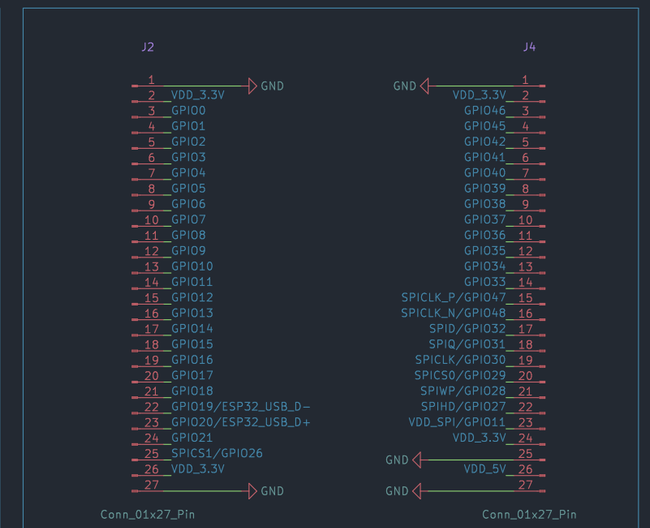
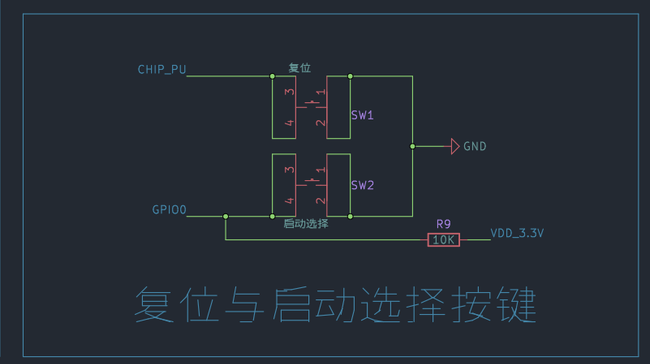

3.3V 线性稳压电路
U1
ME6211C33M5G-N
Vin
Vss
CE
Vout
NC
C1 1uF
C2 1uF
R3 2K
D1
LED_Red
VDD_5V
VDD_3.3V
GND

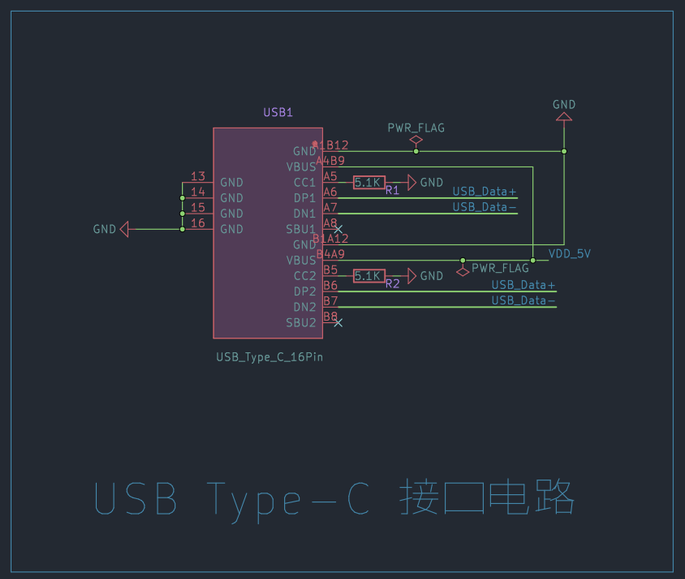

Flash 存储器电路
U2
W25Q128JVSSIQ
DI(IO0)
CLK
HOLD#/RESET#/(IO3)
VCC
GND
WP#(IO2)
DO(IO1)
CS#
SPID/GPIO32
SPICLK/GPIO30
SPIHD/GPIO27
VDD_SPI/GPIO11
SPIWP/GPIO28
SPIQ/GPIO31
SPICS0/GPIO29

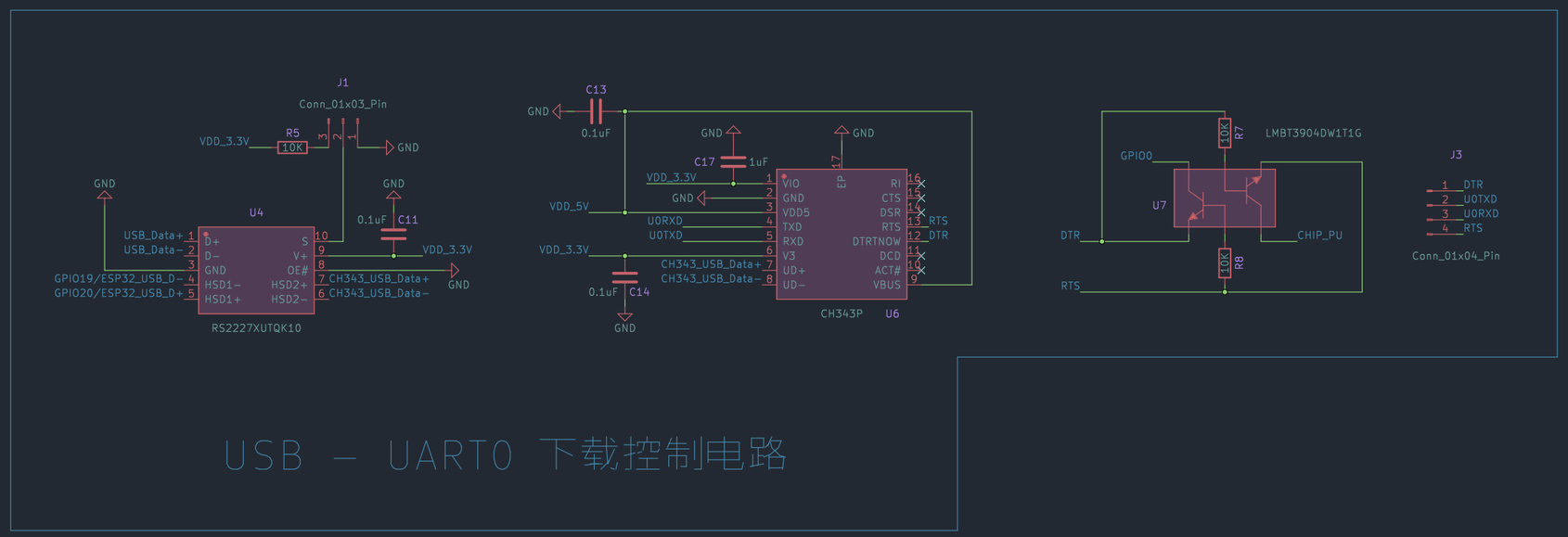

PSRAM 伪静态随机存储器
U3
ESP-PSRAM64H
CE#
SO/SIO1
SIO2
VSS
VCC
SIO3
SCLK
SI/SIO0
SPICS1/GPIO26
SPIQ/GPIO31
SPIWP/GPIO28
VDD_SPI/GPIO11
SPIHD/GPIO27
SPICLK/GPIO30
SPID/GPIO32


ESP32-C3 最小系统
U5
ESP32S3
ESP32-S3
AE1
Antenna_Chip
Y1
40MHz
C15 15pF
C16 15pF
R6 10K
C19 0.1uF
C9 1uF
C10 10nF
L1
C5 TBD
C8 TBD
R4 10K
C7 0.1uF
C3 0.1uF
C4 1uF
C6 10uF
C12 0.1uF
C18 0.1uF
C20 1uF
CHIP_PU
VDD_3.3V
VDD_SPI/GPIO11
SPICLK_P/GPIO47
SPICLK_N/GPIO48
SPID/GPIO32
SPIQ/GPIO31
SPICLK/GPIO30
SPICS0/GPIO29
SPIWP/GPIO28
SPIHD/GPIO27
GPIO19/ESP32_USB_D-
GPIO20/ESP32_USB_D+
SPICS1/GPIO26


2.54mm 间距引脚排针
J2
Conn_01x27_Pin
J4
Conn_01x27_Pin
VDD_3.3V
GPIO0
GPIO1
GPIO2
GPIO3
GPIO4
GPIO5
GPIO6
GPIO7
GPIO8
GPIO9
GPIO10
GPIO11
GPIO12
GPIO13
GPIO14
GPIO15
GPIO16
GPIO17
GPIO18
GPIO19/ESP32_USB_D-
GPIO20/ESP32_USB_D+
GPIO21
SPICS1/GPIO26
VDD_3.3V
GND
GPIO46
GPIO45
GPIO42
GPIO41
GPIO40
GPIO39
GPIO38
GPIO37
GPIO36
GPIO35
GPIO34
GPIO33
SPICLK_P/GPIO47
SPICLK_N/GPIO48
SPID/GPIO32
SPIQ/GPIO31
SPICLK/GPIO30
SPICS0/GPIO29
SPIWP/GPIO28
SPIHD/GPIO27
VDD_SPI/GPIO11
VDD_3.3V
VDD_5V


复位与启动选择按键
CHIP_PU
复位
SW1
SW2
GND
GPIO0
启动选择
R9 10K
VDD_3.3V


USB Type-C 接口电路
USB1
USB_Type_C_16Pin
PWR_FLAG
GND
VDD_5V
R1 5.1K
R2 5.1K
USB_Data+
USB_Data-


USB - UART0 下载控制电路
J1
Conn_01x03_Pin
R5 10K
U4
RS2227XUTQK10
C11 0.1uF
C13 0.1uF
C17 1uF
C14 0.1uF
CH343P U6
R7 10K
R8 10K
LMBT3904DW1T1G
U7
J3
Conn_01x04_Pin
DTR
RTS
UORXD
UOTXD
CHIP_PU
GPIO0
VDD_3.3V
VDD_5V
GND