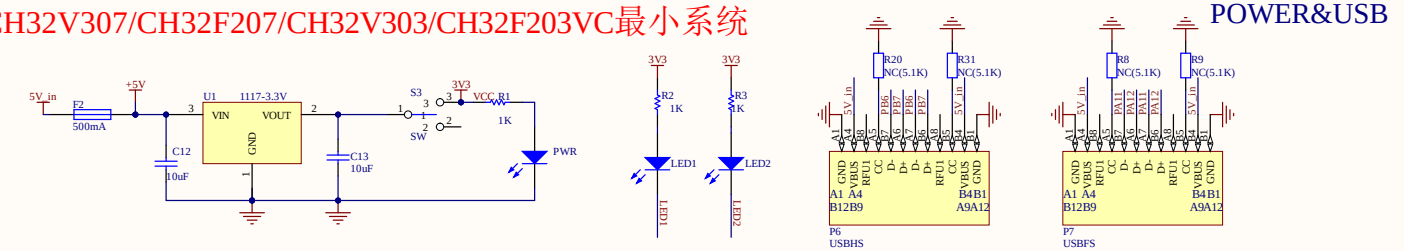
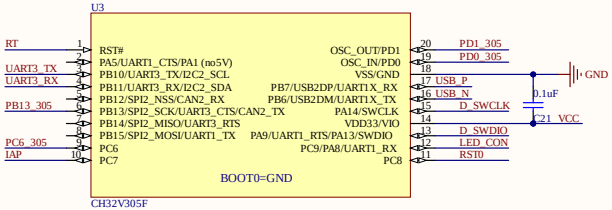
CH32V307/CH32F207/CH32V303/CH32F203VC最小系统

POWER&USB



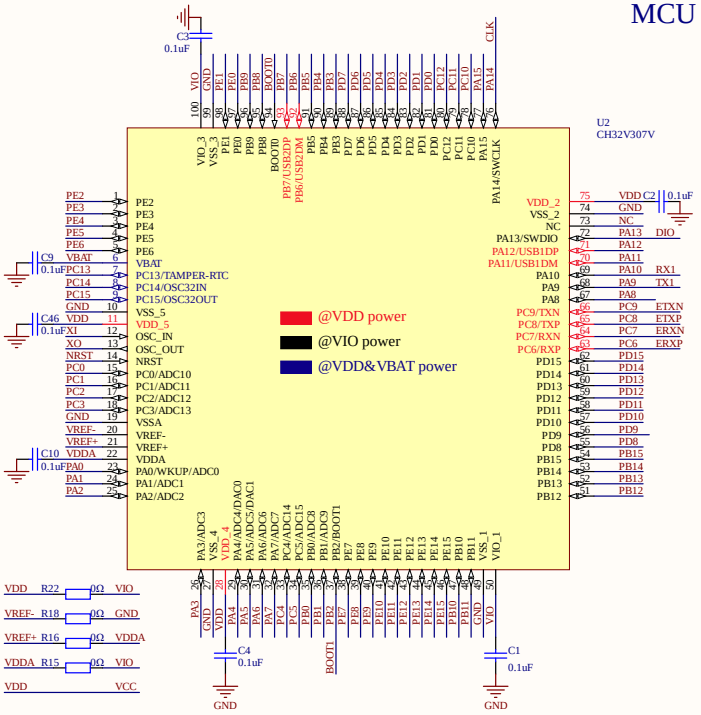
WCH_LinkE

MCU

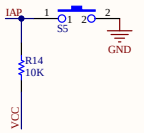


XTAL

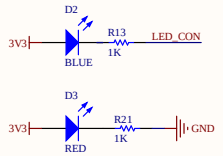
MCU



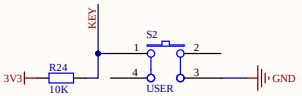
IAP



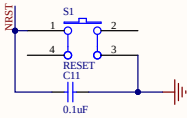
LED



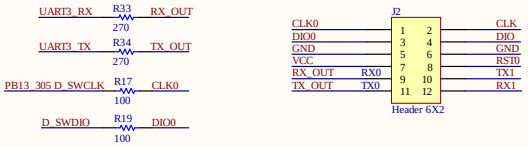
KEY



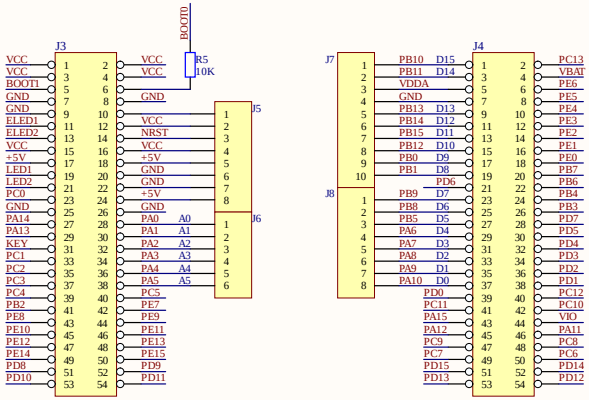
RST



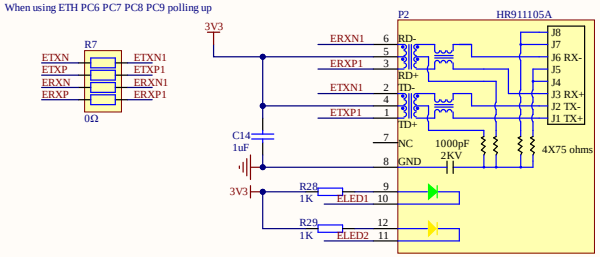
SWD&UART



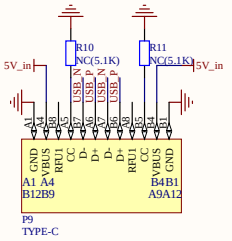
ARDUINO



ETH

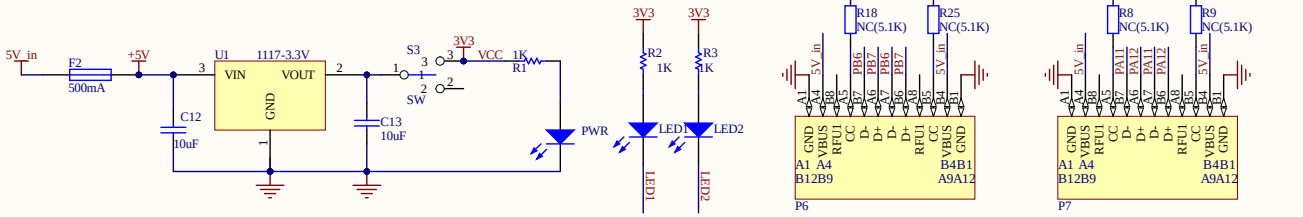


POWER&USB



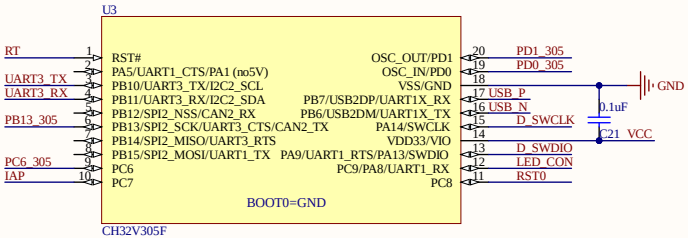
CH32V307/305/303R最小系统

POWER&USB

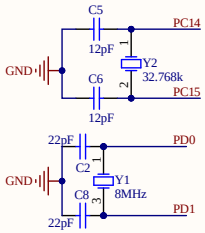


WCH_LinkE

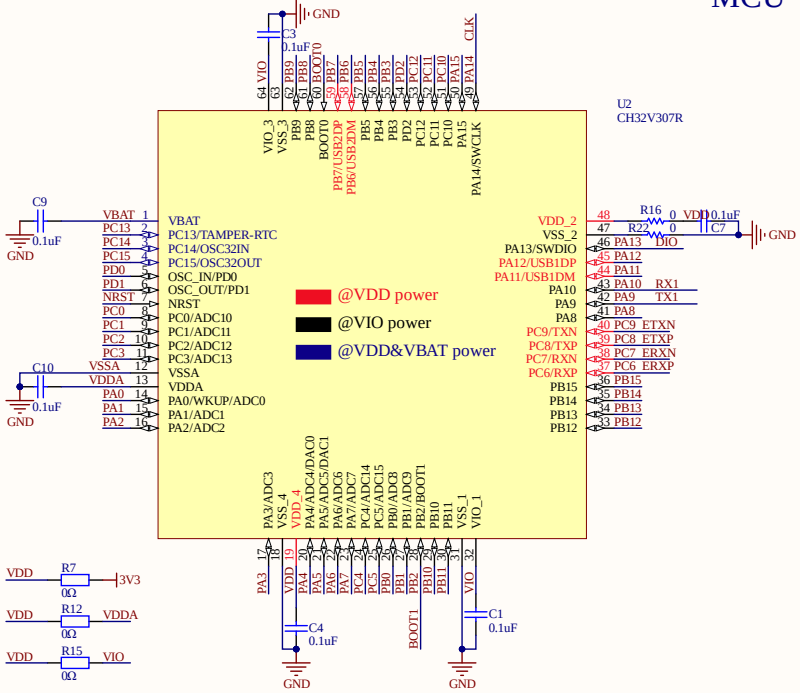
MCU



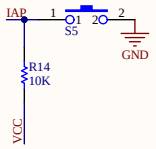
XTAL



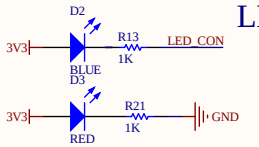
MCU



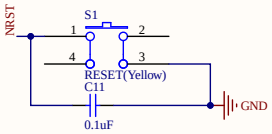
IAP



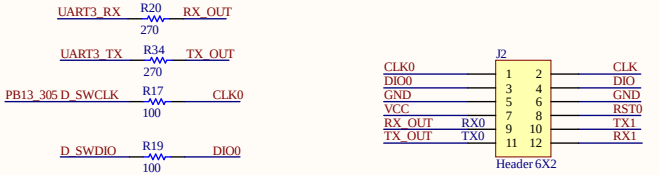
LED



RST

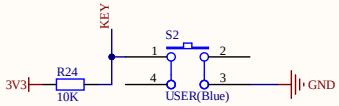


SWD&UART

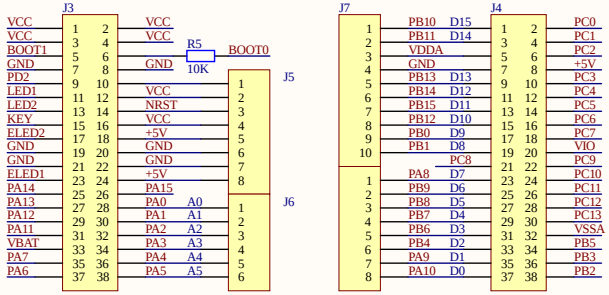


空闲时蓝灯常亮-ARM模式
空闲时蓝灯常灭-Risc-V模式

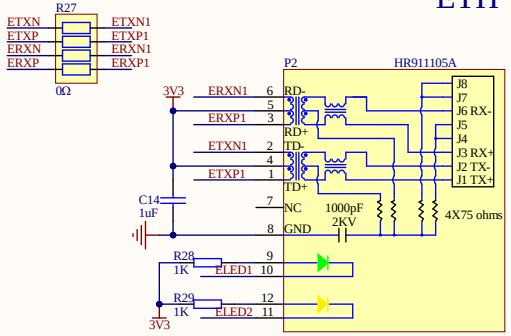
KEY



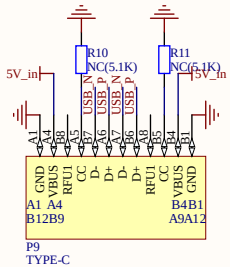
ARDUINO



ETH

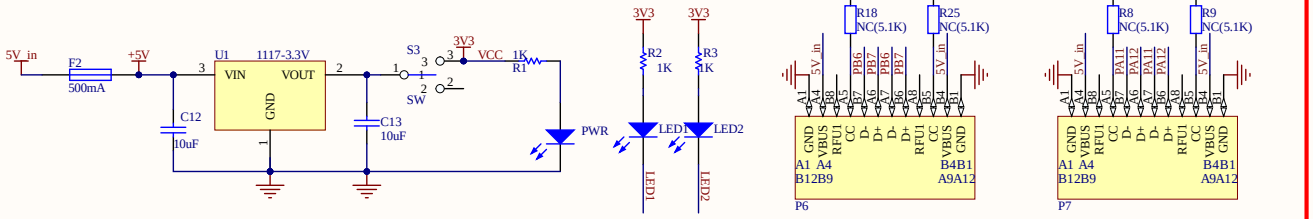


POWER&USB

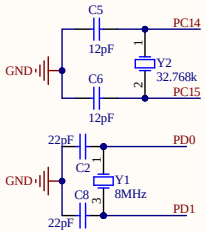


CH32V307/305/303R最小系统

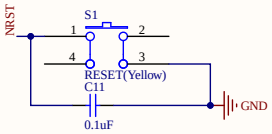
POWER&USB



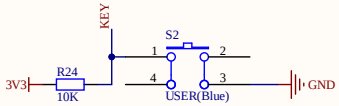
XTAL



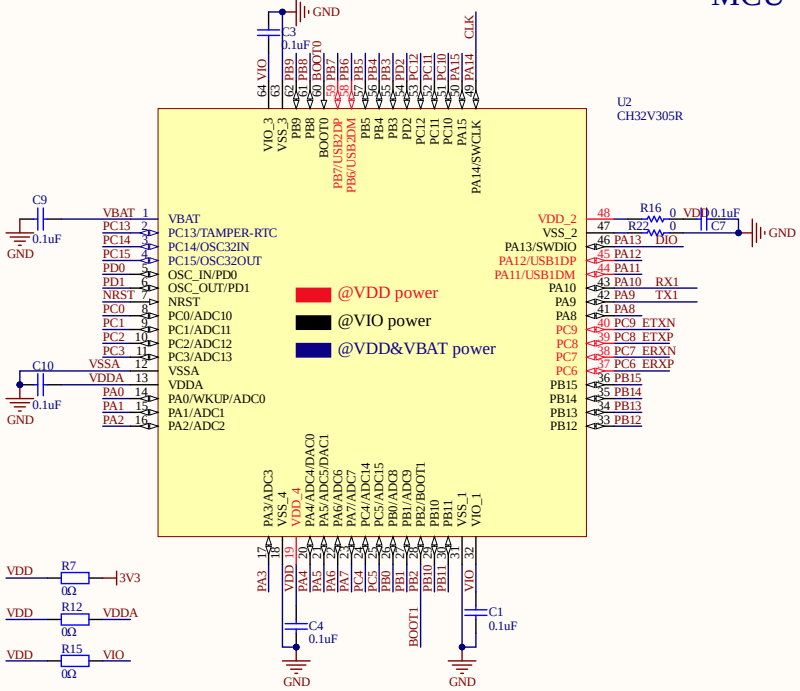
RST



KEY

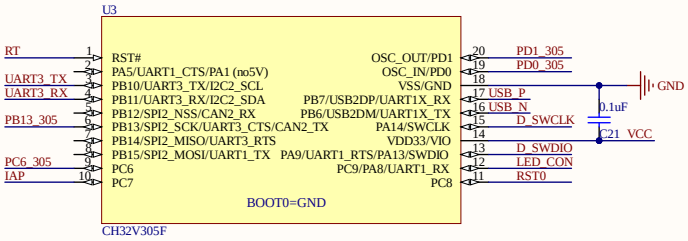


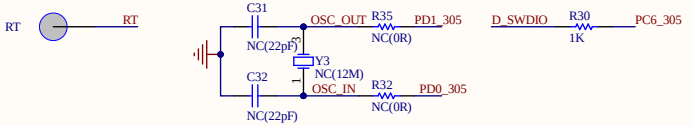
MCU



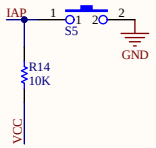
WCH_LinkE

MCU

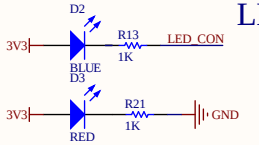




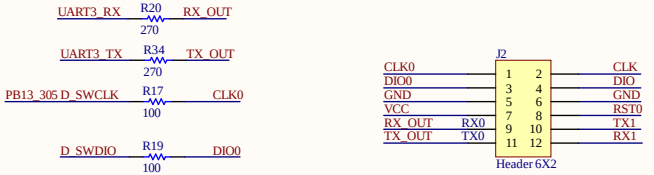
IAP



LED

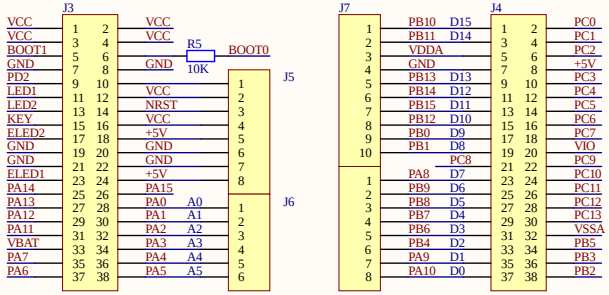


SWD&UART

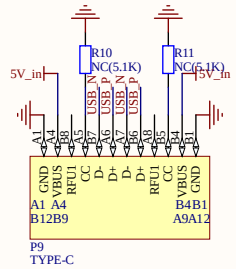


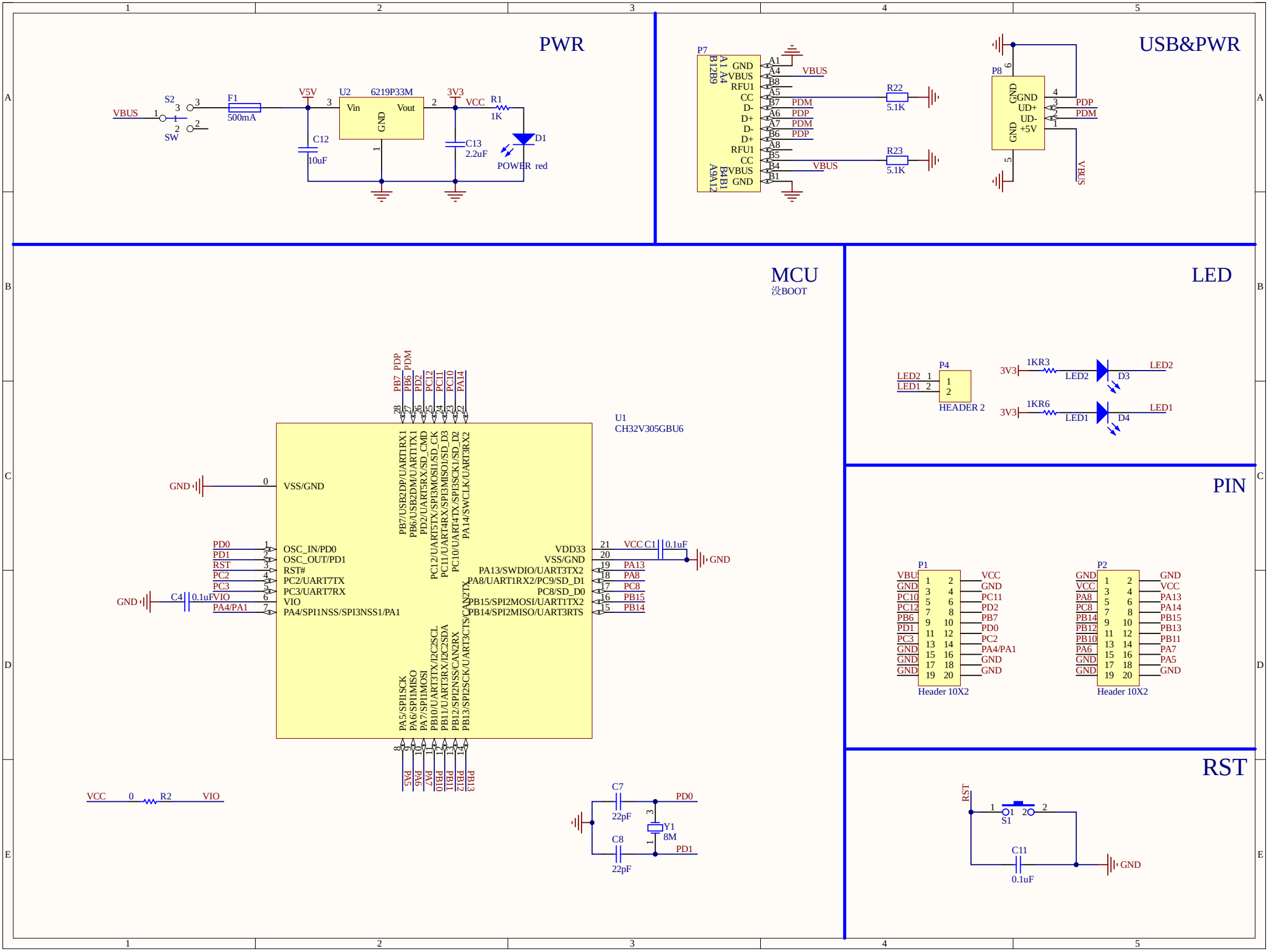
空闲时蓝灯常亮-ARM模式
空闲时蓝灯常灭-Risc-V模式

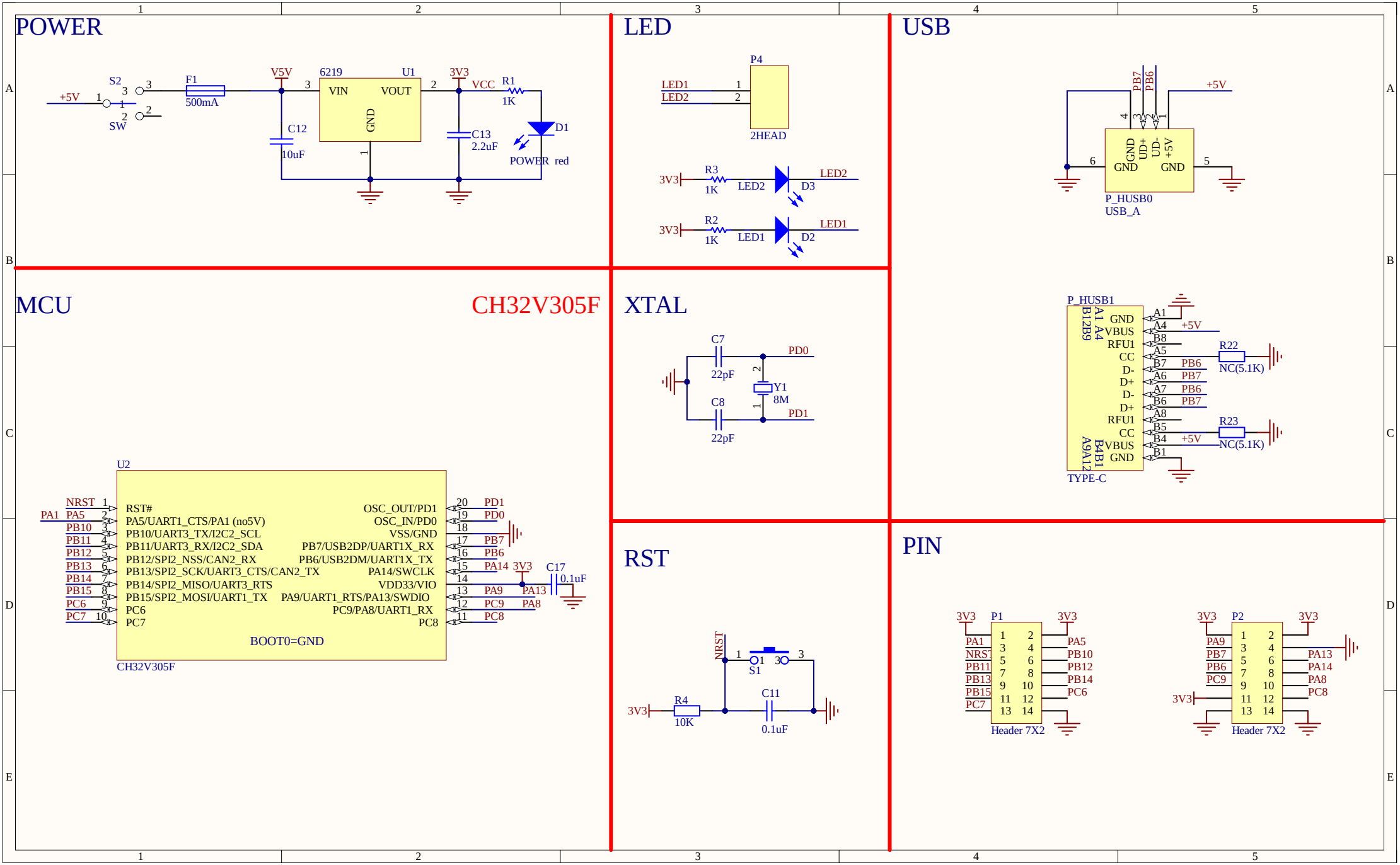
ARDUINO



POWER&USB

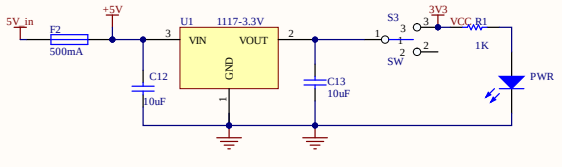


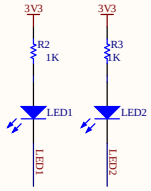

PWR
S2
SW
VBUS
F1
500mA
V5V
C12
10uF
U2
6219P33M
Vin
GND
Vout
3V3
C13
2.2uF
VCC
R1
1K
D1
POWER red
USB&PWR
P7
GND
VBUS
RFU1
CC
D-
D+
D-
D+
RFU1
CC
VBUS
GND
R22
5.1K
R23
5.1K
PDM
PDP
P8
GND
UD+
UD-
+5V
GND
MCU
没BOOT
U1
CH32V305GBU6
VSS/GND
OSC_IN/PD0
OSC_OUT/PD1
RST#
PC2/UART7TX
PC3/UART7RX
VIO
PA4/SPI1NSS/SPI3NSS1/PA1
VDD33
VSS/GND
PA13/SWDIO/UART3TX2
PA8/UART1RX2/PC9/SD_D1
PC8/SD_D0
PB15/SPI2MOSI/UART1TX2
PB14/SPI2MISO/UART3RTS
PB7/USB2DP/UART1RX1
PB6/USB2DM/UART1TX1
PD2/UART5RX/SD_CMD
PC12/UART5TX/SPI3MOSI1/SD_CK
PC11/UART4RX/SPI3MISO1/SD_D3
PC10/UART4TX/SPI3SCK1/SD_D2
PA14/SWCLK/UART3RX2
PA5/SPI1SCK
PA6/SPI1MISO
PA7/SPI1MOSI
PB10/UART3TX/I2C2SCL
PB11/UART3RX/I2C2SDA
PB12/SPI2NSS/CAN2RX
PB13/SPI2SCK/UART3CTS/CAN2TX
C4
0.1uF
C1
0.1uF
R2
C7
22pF
C8
22pF
Y1
8M
LED
P4
HEADER 2
1KR3
LED2
D3
1KR6
LED1
D4
PIN
P1
Header 10X2
P2
Header 10X2
RST
S1
C11
0.1uF

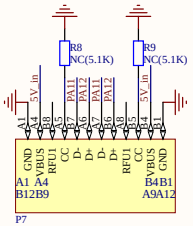

POWER
+5V
S2
SW
F1
500mA
V5V
6219
U1
VIN
VOUT
GND
3V3
VCC
R1
1K
C12
10uF
C13
2.2uF
D1
POWER red
LED
P4
LED1
LED2
2HEAD
3V3
R3
1K
LED2
D3
R2
1K
LED1
D2
USB
PB7
PB6
+5V
GND
UD+
UD-
+5V
P_HUSB0
USB_A
P_HUSB1
TYPE-C
R22
NC(5.1K)
R23
NC(5.1K)
MCU
CH32V305F
U2
NRST
PA1
PA5
PB10
PB11
PB12
PB13
PB14
PB15
PC6
PC7
RST#
PA5/UART1_CTS/PA1 (no5V)
PB10/UART3_TX/I2C2_SCL
PB11/UART3_RX/I2C2_SDA
PB12/SPI2_NSS/CAN2_RX
PB13/SPI2_SCK/UART3_CTS/CAN2_TX
PB14/SPI2_MISO/UART3_RTS
PB15/SPI2_MOSI/UART1_TX
PC6
PC7
OSC_OUT/PD1
OSC_IN/PD0
VSS/GND
PB7/USB2DP/UART1X_RX
PB6/USB2DM/UART1X_TX
PA14/SWCLK
VDD33/VIO
PA9/UART1_RTS/PA13/SWDIO
PC9/PA8/UART1_RX
PC8
PD1
PD0
PB7
PB6
PA14
PA9
PA13
PC9
PA8
PC8
3V3
C17
0.1uF
BOOT0=GND
CH32V305F
XTAL
C7
22pF
C8
22pF
Y1
8M
PD0
PD1
RST
NRST
S1
3V3
R4
10K
C11
0.1uF
PIN
P1
P2
Header 7X2
Header 7X2

CH32V307/CH32F207/CH32V303/CH32F203VC最小系统

POWER&USB

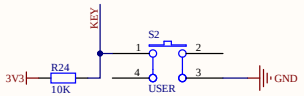




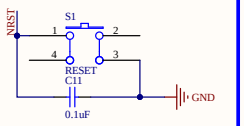


XTAL

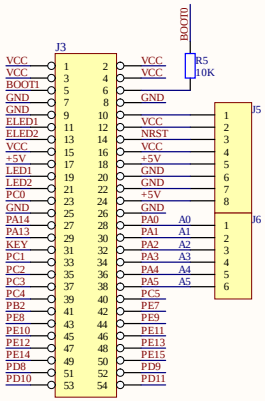
KEY

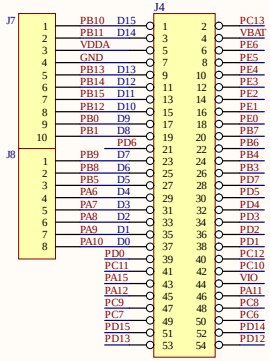


RST

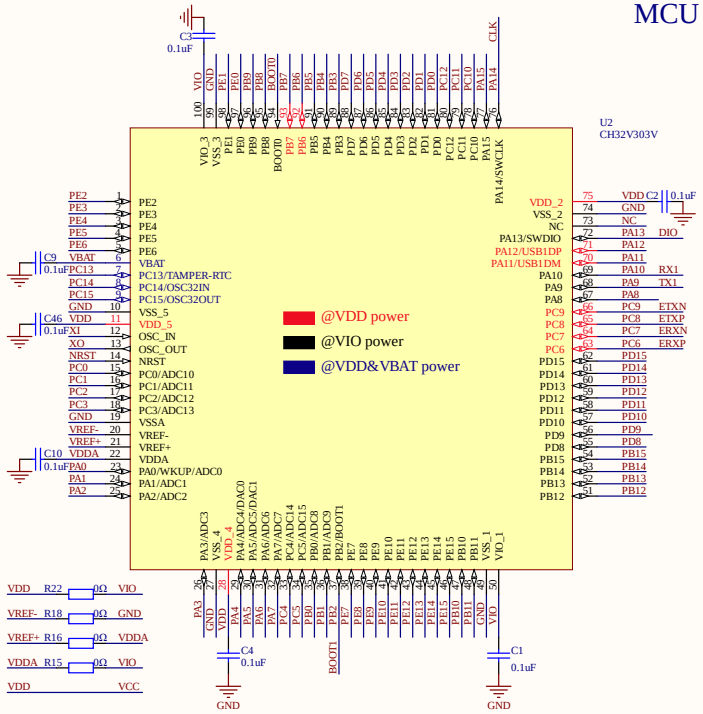


ARDUINO



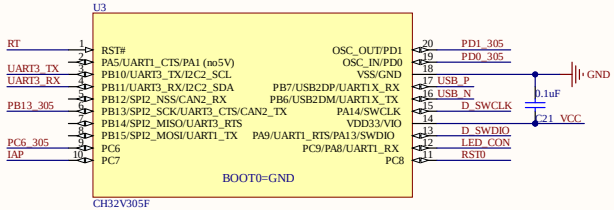


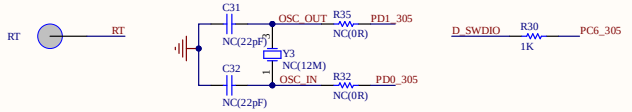
MCU



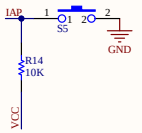
WCH_LinkE

MCU

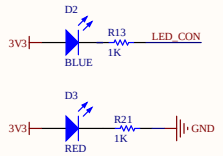




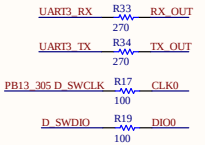
IAP

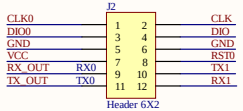


LED



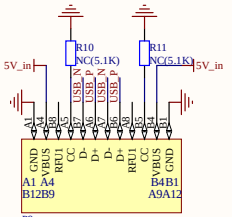
SWD&UART

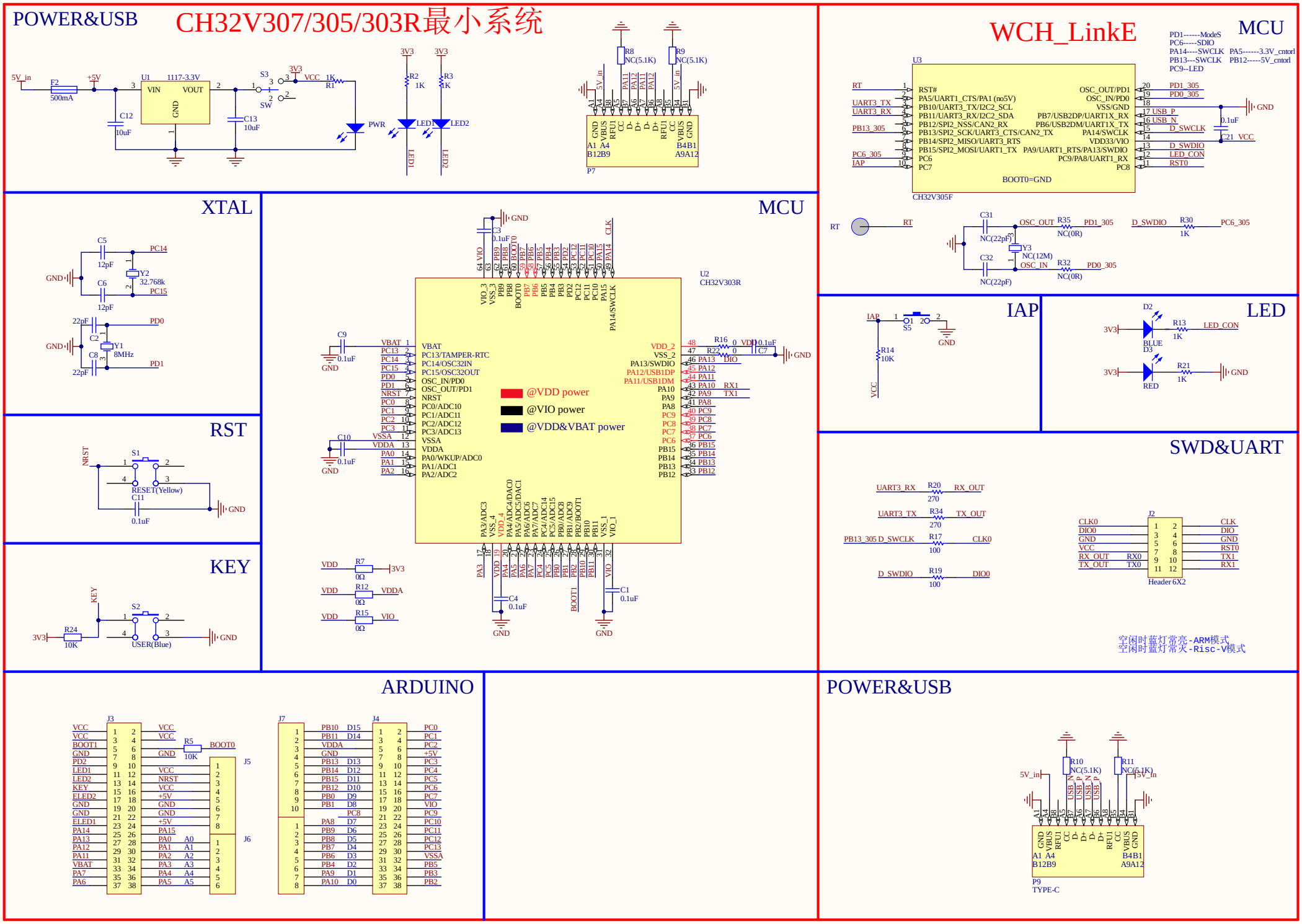


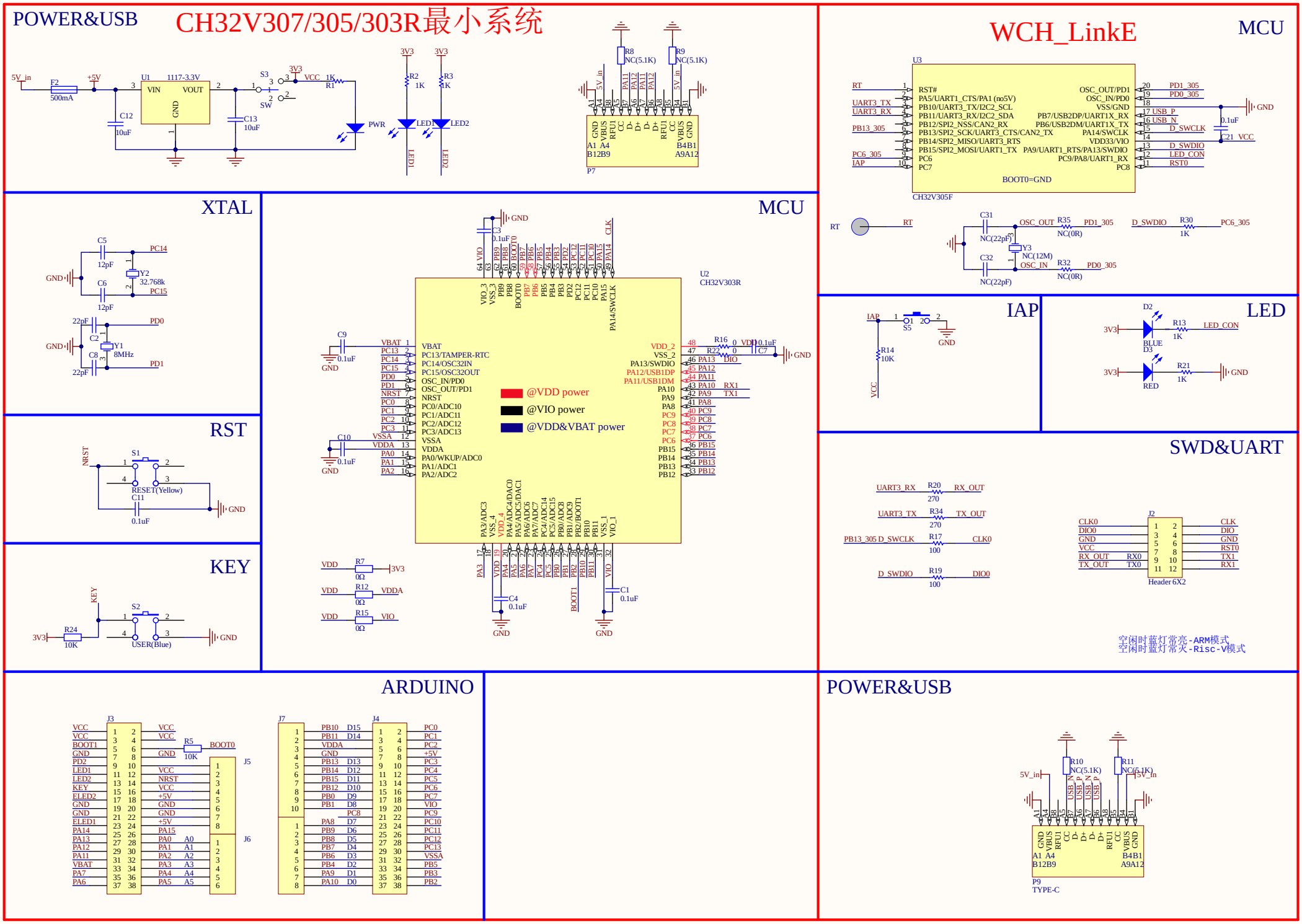


空闲时蓝灯常亮-ARM模式
空闲时蓝灯常灭-Risc-V模式

POWER&USB

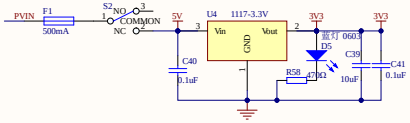



POWER&USB
CH32V307/305/303R最小系统
WCH_LinkE
MCU
XTAL
MCU
IAP
LED
RST
SWD&UART
KEY
ARDUINO
POWER&USB
@VDD power
@VIO power
@VDD&VBAT power
空闲时蓝灯常亮-ARM模式
空闲时蓝灯常灭-Risc-V模式

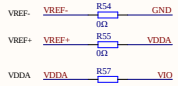

POWER&USB
CH32V307/305/303R最小系统
WCH_LinkE
MCU
XTAL
MCU
IAP
LED
RST
SWD&UART
KEY
ARDUINO
POWER&USB
@VDD power
@VIO power
@VDD&VBAT power
空闲时蓝灯常亮-ARM模式
空闲时蓝灯常灭-Risc-V模式

Power Supply

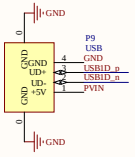
LDO



Power Input

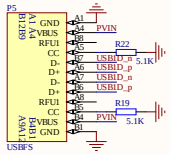


USB Full Speed

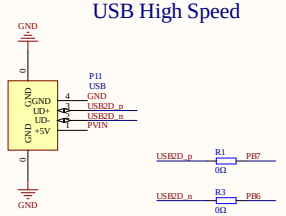


阻抗匹配 12M/Zd:100R/60mA

USB Full Speed Type-C



USB High Speed



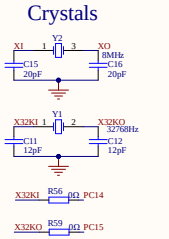
阻抗匹配 480M/Zd:100R/30mA

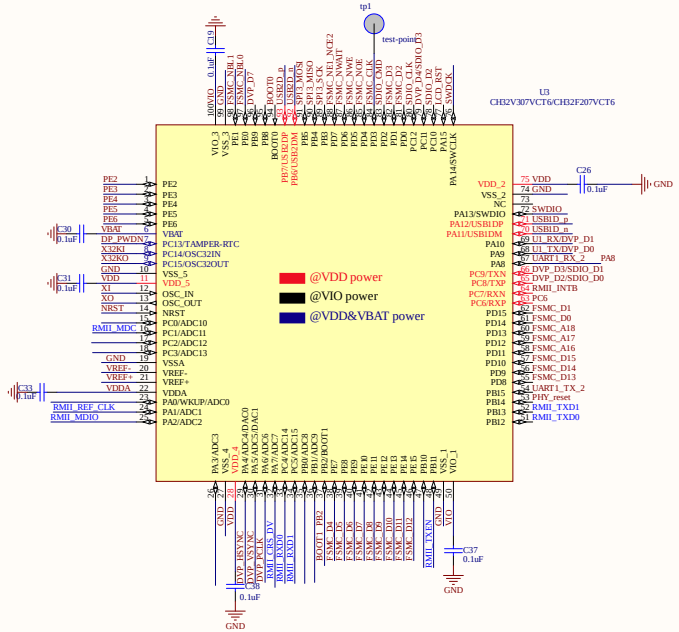
CH32V307VCT6/CH32F207VCT6

Risc-V v4f
IMAFC

144MHz
128KB RAM
192KB ROM

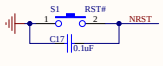
Crystals



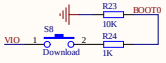


KEY

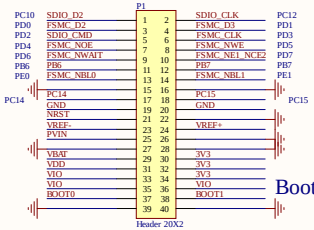
Reset



Download

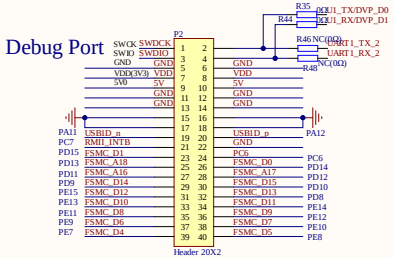


IO



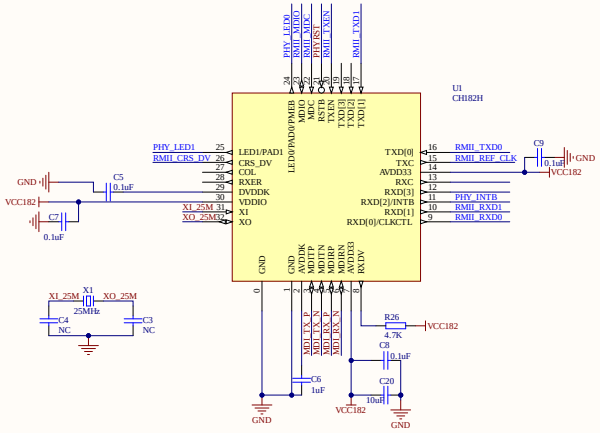
Boot Config

Debug Port



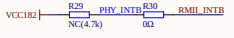
100M external PHY

RMII interface

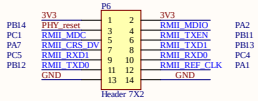


INTB function

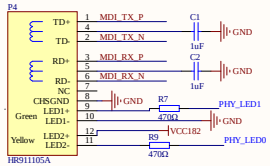
R29 Connect a 4.7K resistor to turn on the interrupt function and WOL function, at this time LED0 (pin 24) is PMEB function.
Otherwise, it is LED function and LED0 is displayed normally.



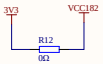
RMII Interface Related IOs



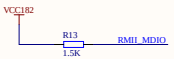
Ethernet Interface



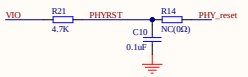
CH182 power supply



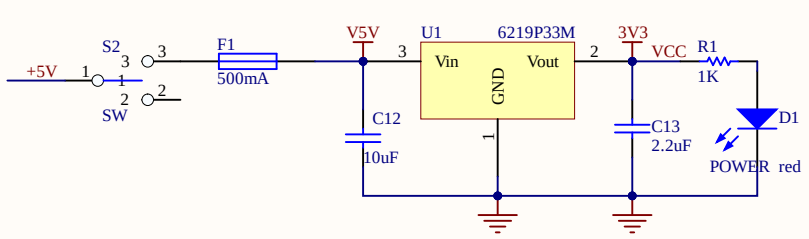
MDIO pull high



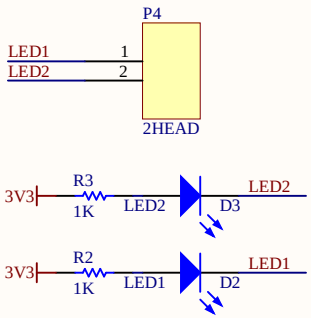
PHY Reset



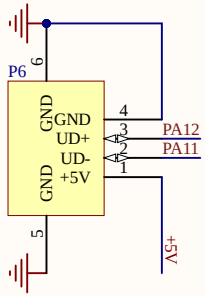
POWER



LED

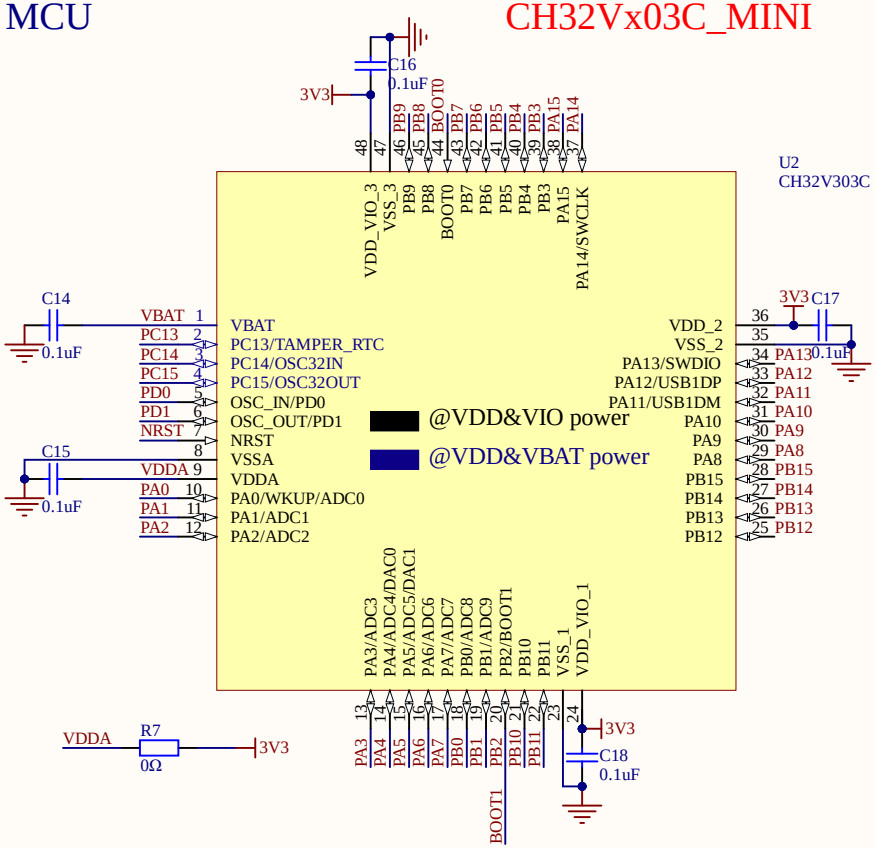


USB

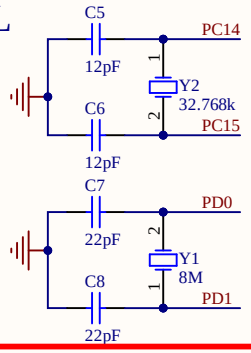


MCU

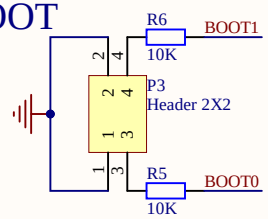
CH32Vx03C_MINI



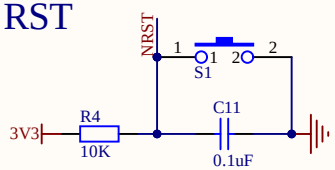
XTAL



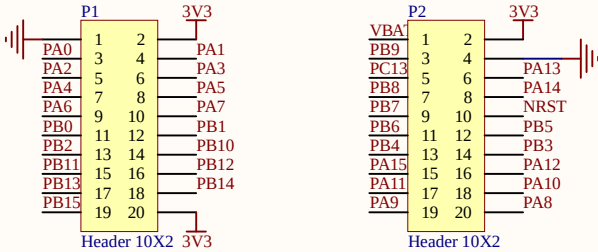
BOOT



RST

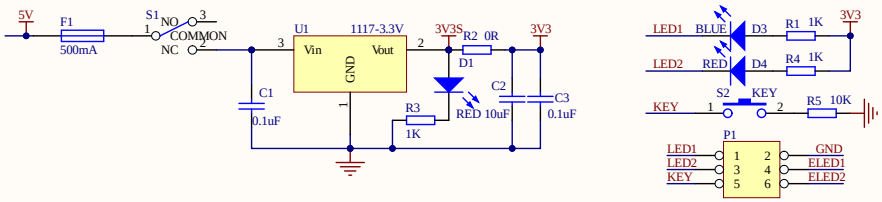


PIN

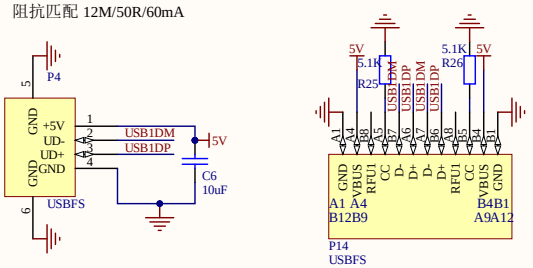


CH32xx0xV_EVT

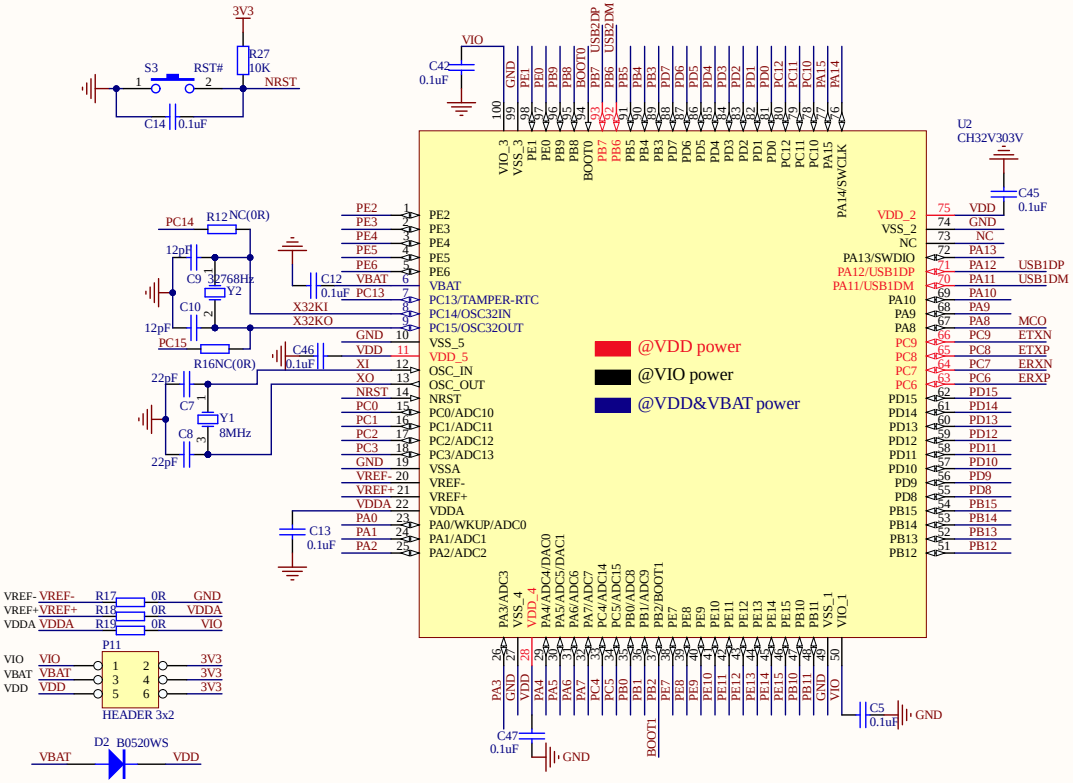
POWER



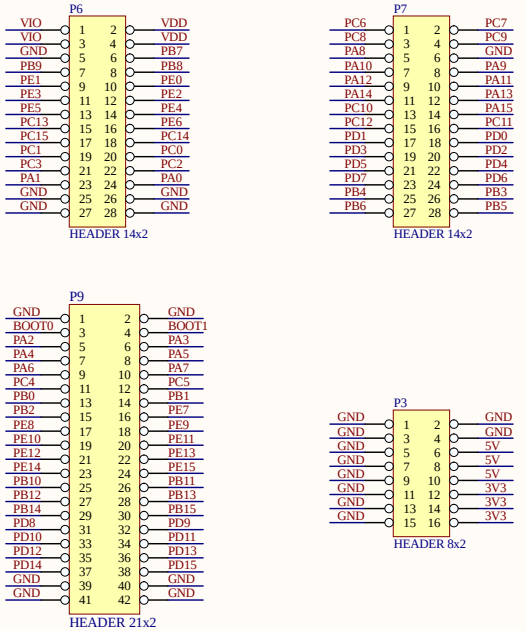
USB



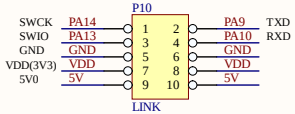
MCU



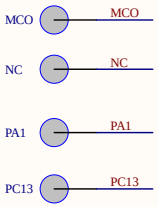
PIN



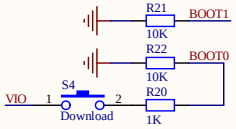
DEBUG

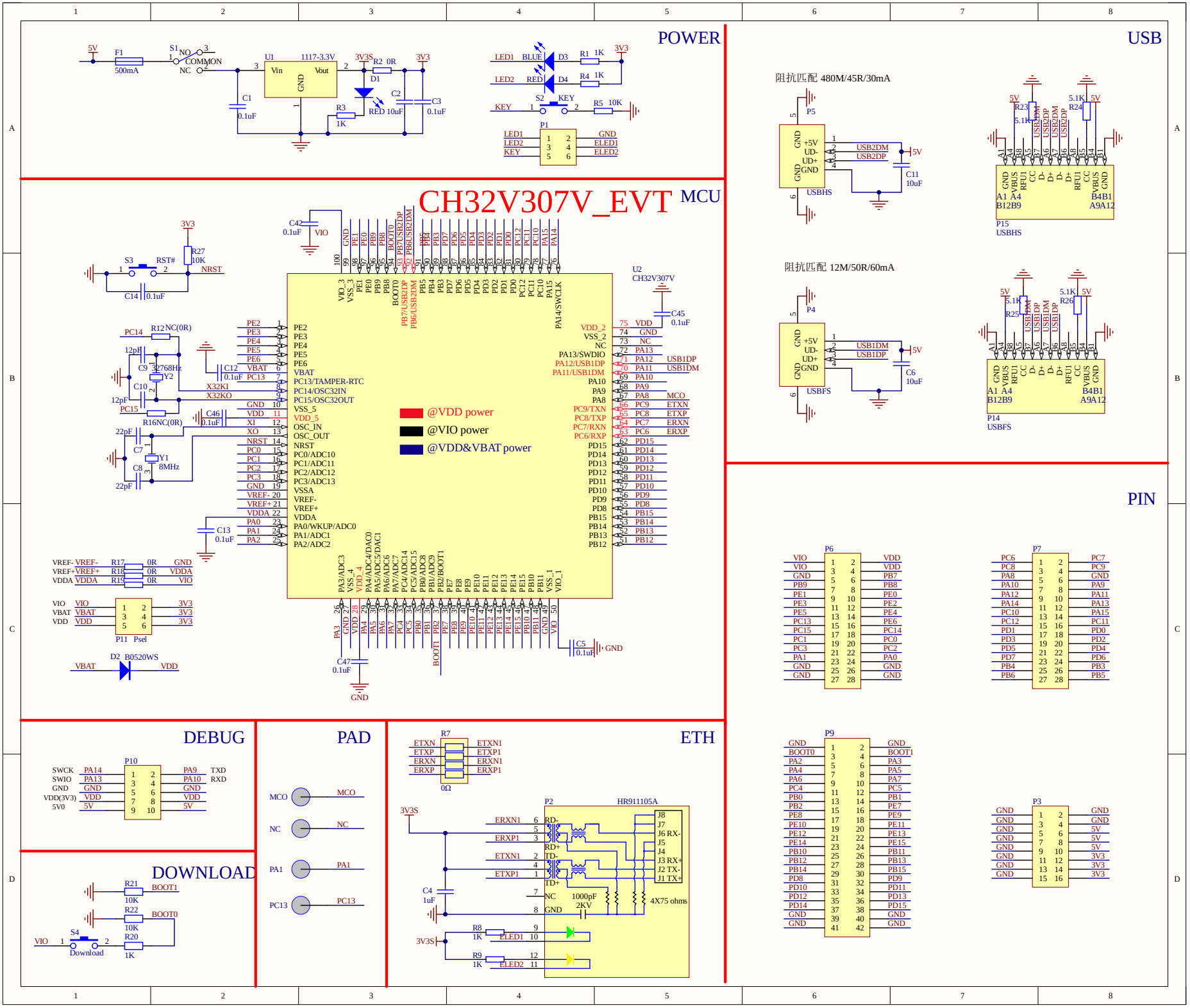


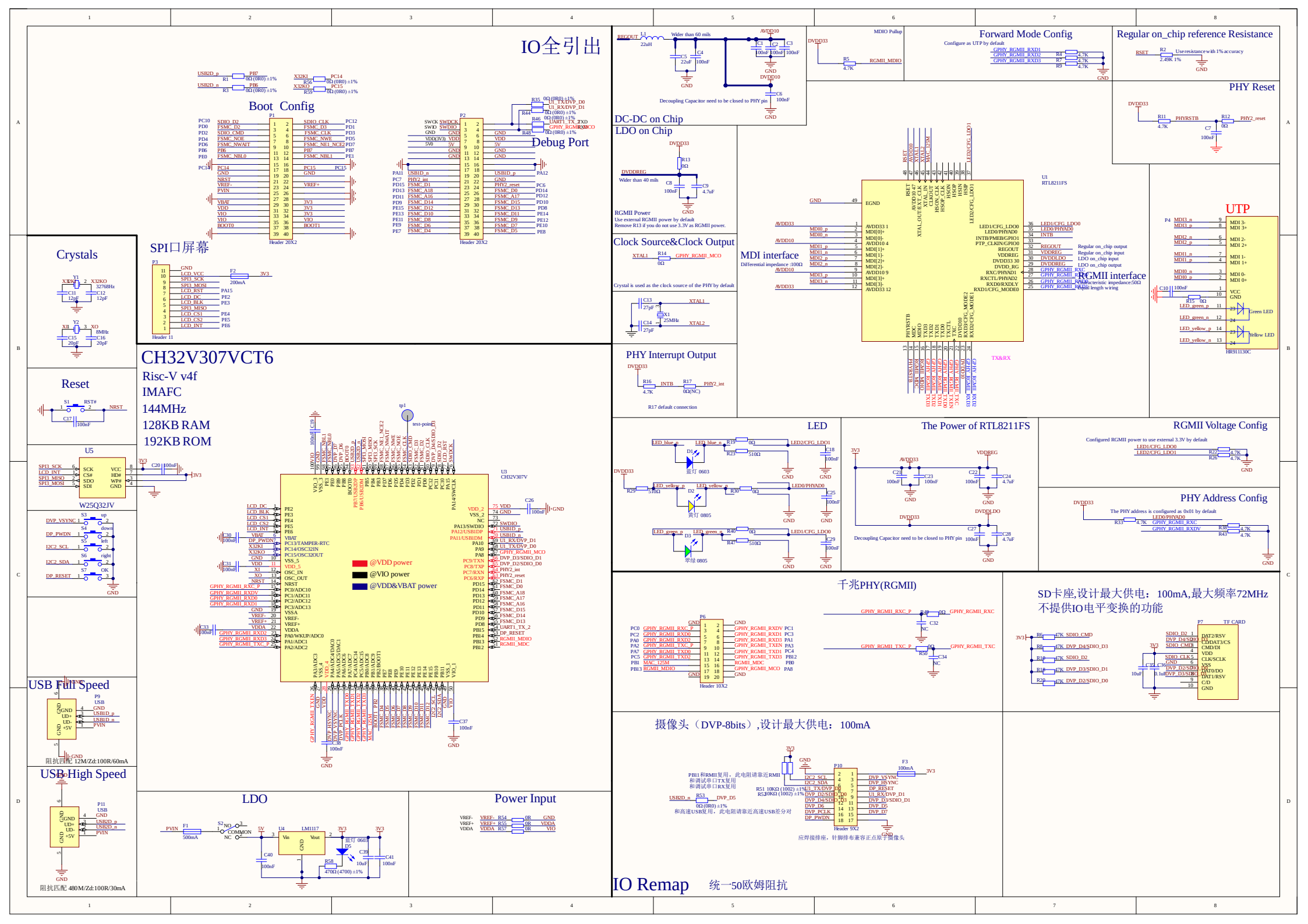
PAD

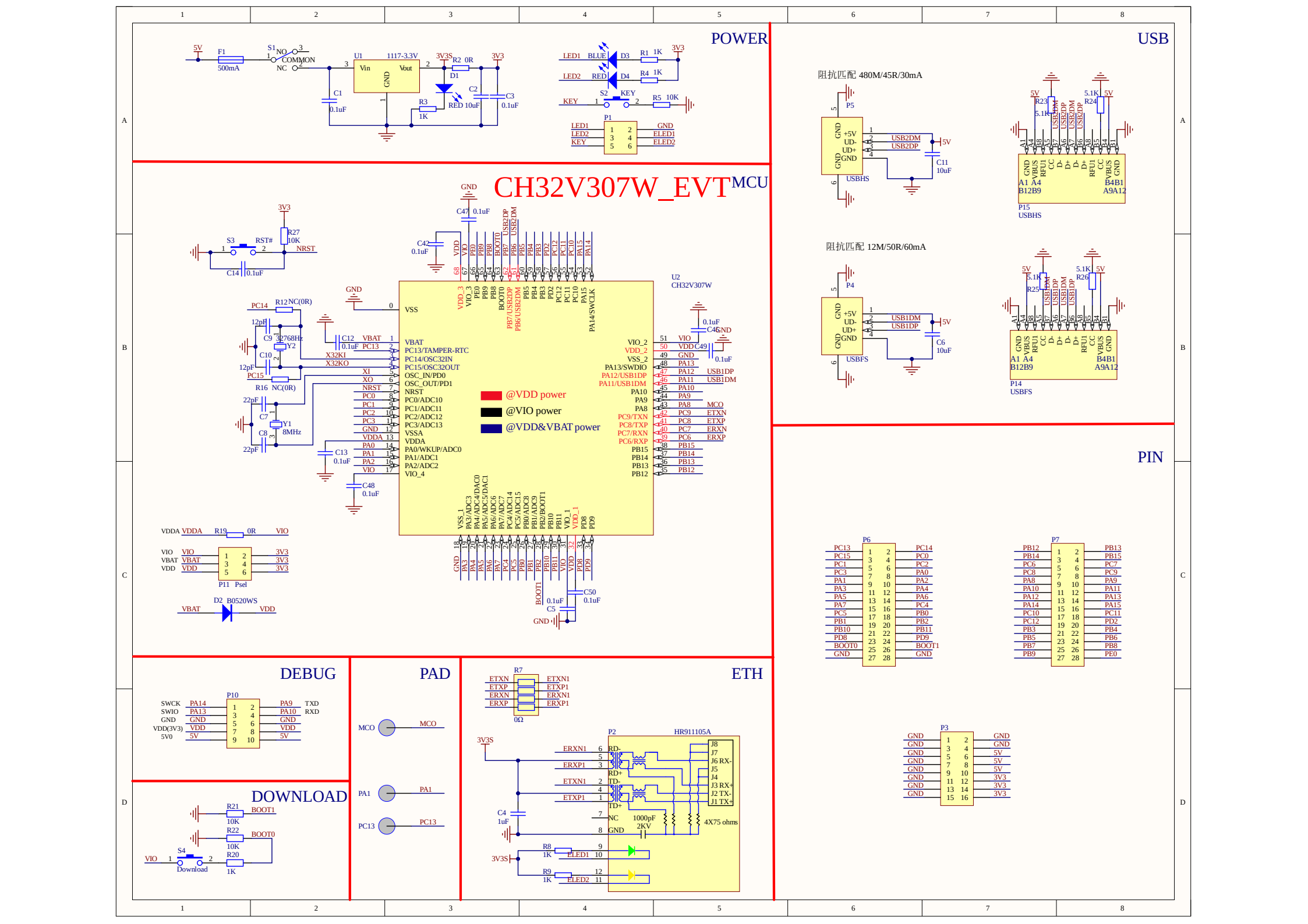


DOWNLOAD




POWER
USB
CH32V307V_EVT
MCU
@VDD power
@VIO power
@VDD&VBAT power
阻抗匹配 480M/45R/30mA
阻抗匹配 12M/50R/60mA
PIN
DEBUG
PAD
ETH
DOWNLOAD


IO全引出
Boot Config
Debug Port
SPI口屏幕
Crystals
Reset
CH32V307VCT6
Risc-V v4f
IMAFC
144MHz
128KB RAM
192KB ROM
W25Q32JV
USB Full Speed
USB High Speed
阻抗匹配 12M/Zd:100R/60mA
阻抗匹配 480M/Zd:100R/30mA
LDO
Power Input
DC-DC on Chip
LDO on Chip
RGMII Power
Clock Source&Clock Output
PHY Interrupt Output
MDI interface
RGMII interface
UTP
HR911130C
LED
The Power of RTL8211FS
RGMII Voltage Config
PHY Address Config
千兆PHY(RGMII)
SD卡座,设计最大供电：100mA,最大频率72MHz
不提供IO电平变换的功能
摄像头（DVP-8bits）,设计最大供电：100mA
IO Remap
统一50欧姆阻抗


POWER
USB
CH32V307W_EVT
MCU
阻抗匹配 480M/45R/30mA
阻抗匹配 12M/50R/60mA
@VDD power
@VIO power
@VDD&VBAT power
PIN
DEBUG
PAD
ETH
DOWNLOAD