

STM32F105RBT6(Tybe-B)开发板原理图

修订说明:

201812,V1.0,初次完成;

201901,V1.1,修改了 SOT-323 封装错误;

201903,V2.0,修改板内 5V 供电芯片为 MP2451;



A

A

B

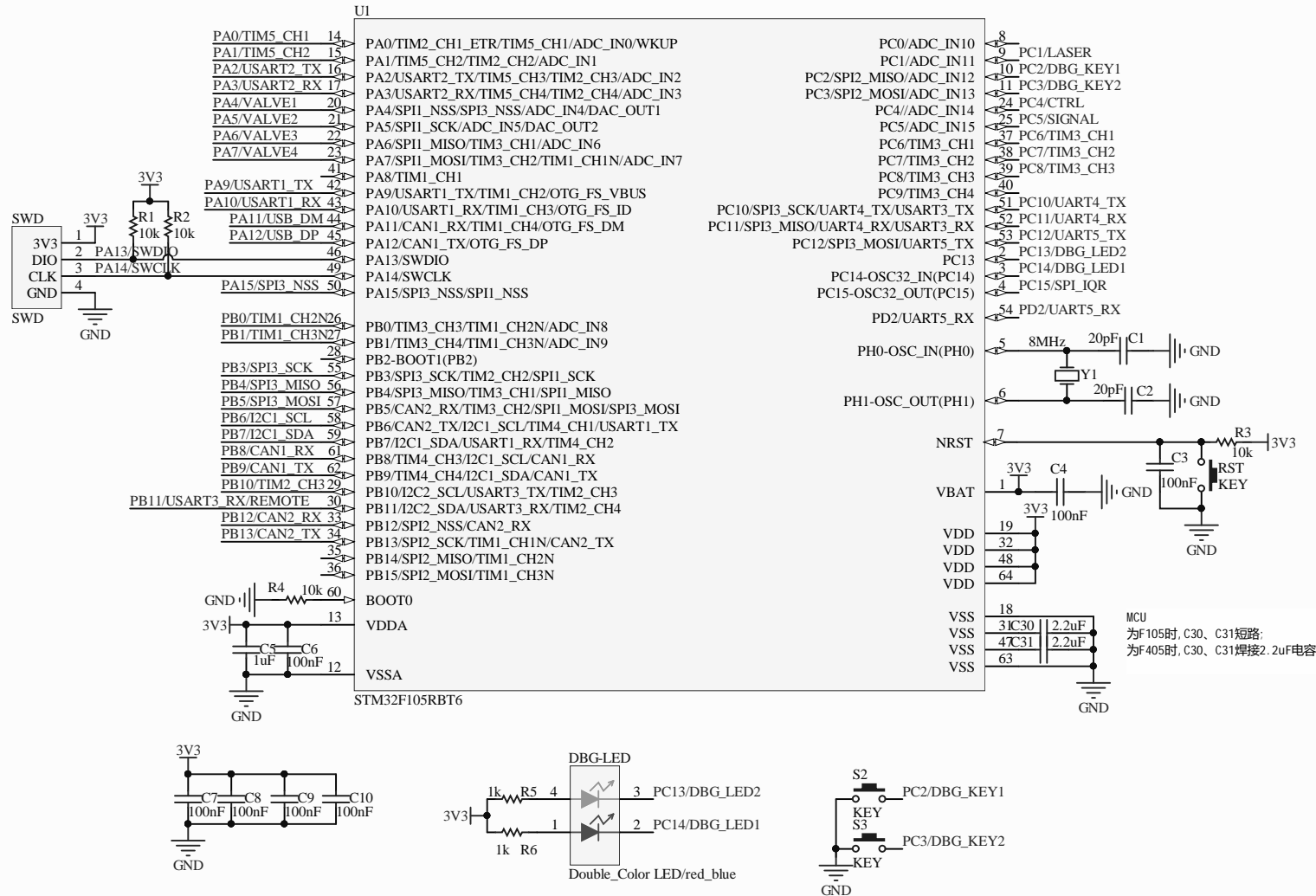
B

C

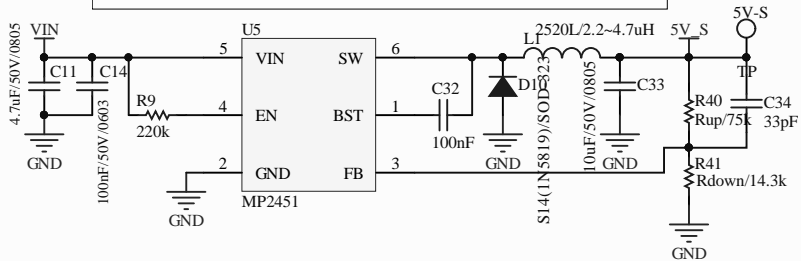
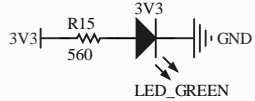
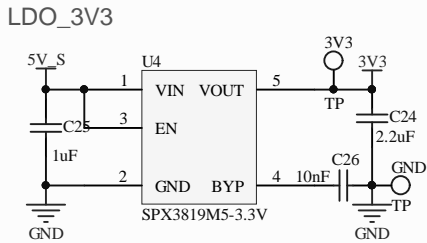
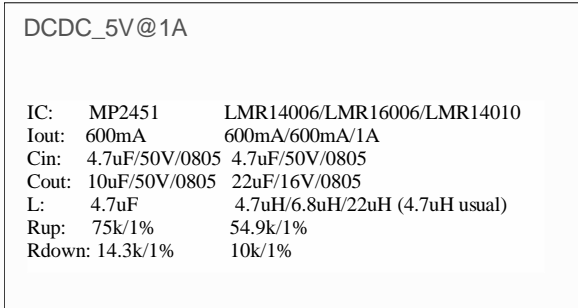
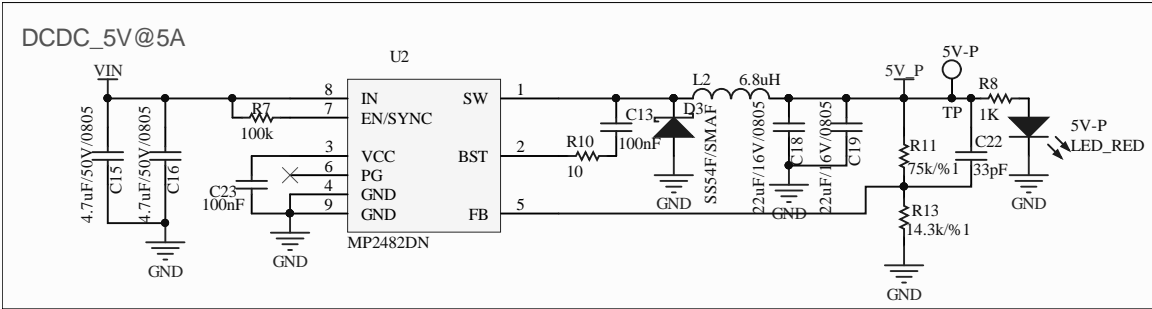
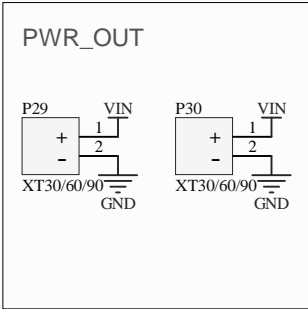
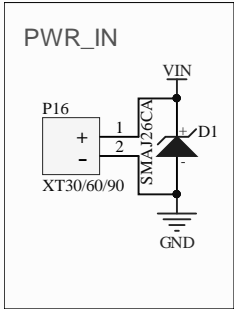
C

D

D



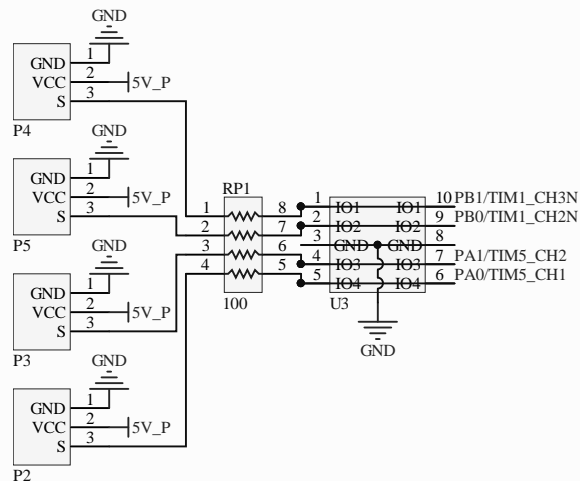
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Size	Number	Revision
A4		
Date:	2019/3/9	Sheet of
File:	C:\Users\...\STM32F105RBT6	MCU_SchDoc



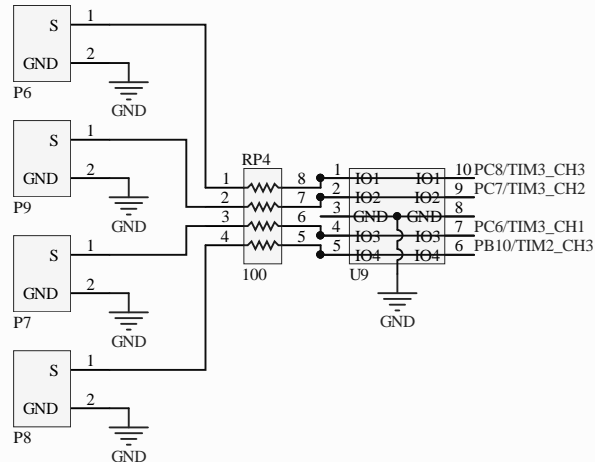
使用者请根据芯片型号以决定R9/L1/R40/R41等器件的数值。

Title		
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Date:	2019/3/9	Sheet of
File:	C:\Users\...\STM32F105RBT6	DrawDoc

2PIN IO/TIM

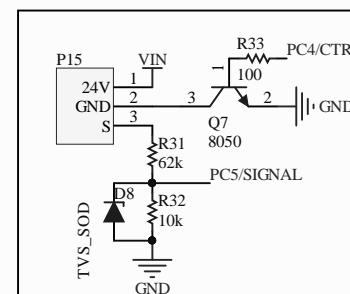
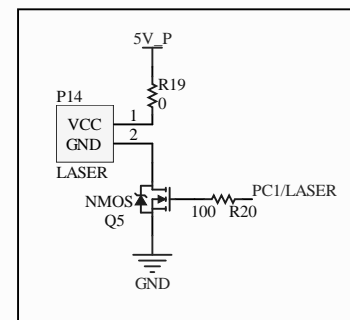
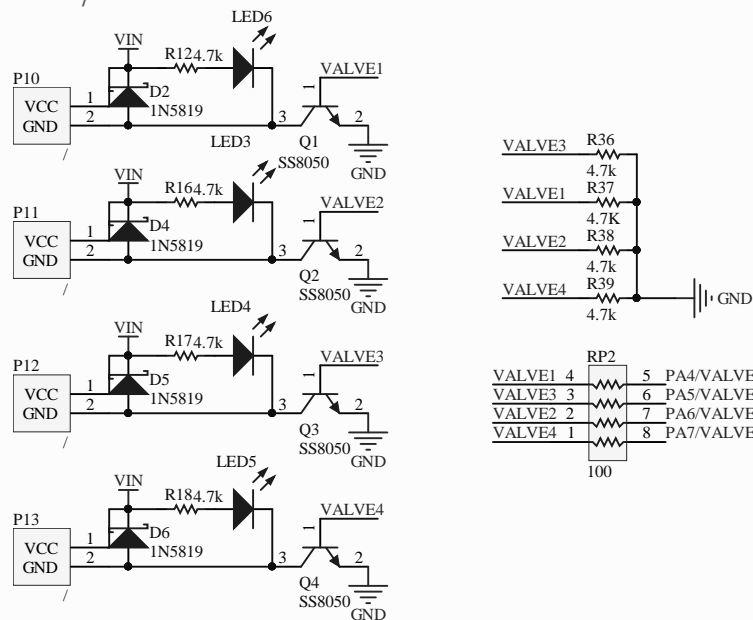


3PIN IO/TIM



MCU: STM32F105			
外设		数量	具体说明
GPIO	LED	2	双色LED
	按键	2	外部输入
	插座	8	HY2.0插座, 可输出PWM
	电感阀	4	24V供电
	激光	1	瞄准用激光
CAN		2	两路CAN通信
IIC		1	用于模块通信, 可供电
SPI		1	用于模块通信, 可供电
USB		1	用于PC通信
UART	普通UART	3	用于一般串口通信
	遥控器	1	用于遥控器D-Bus
	转USB	1	调试用, 直接连接USB

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Title

	Size
	A4

Number

Revision

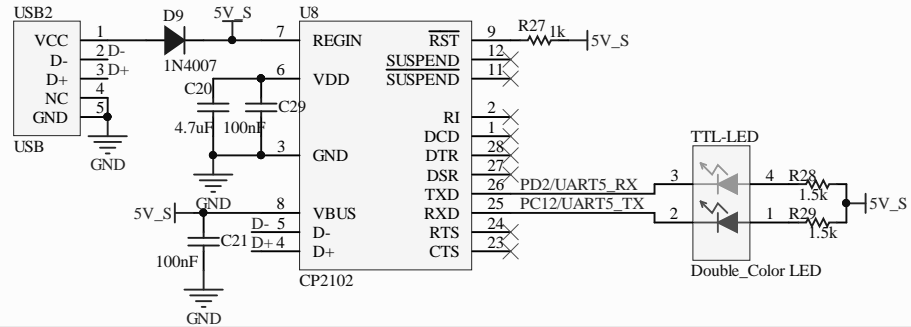
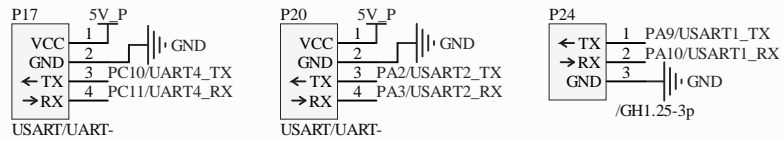
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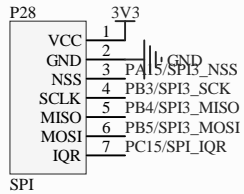
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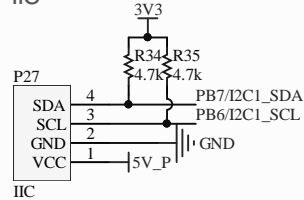
USART/UART



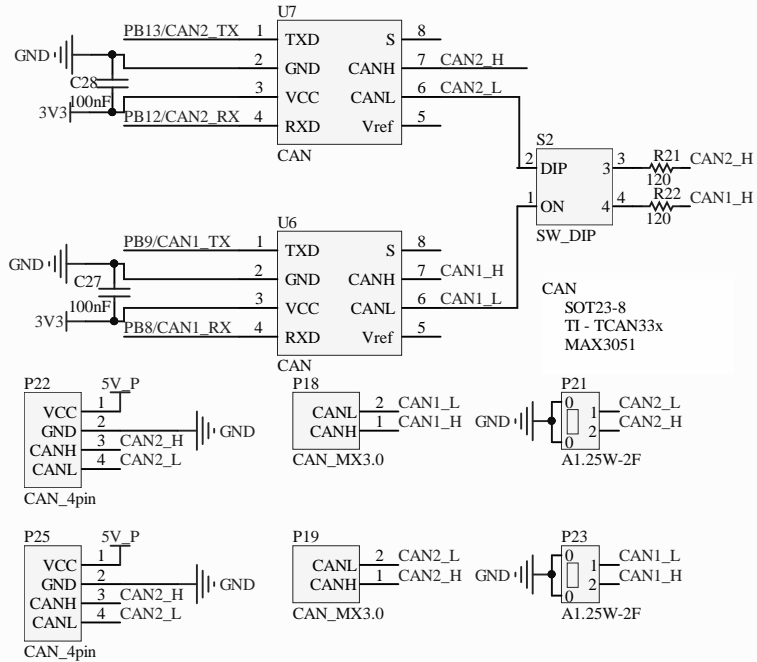
SPI



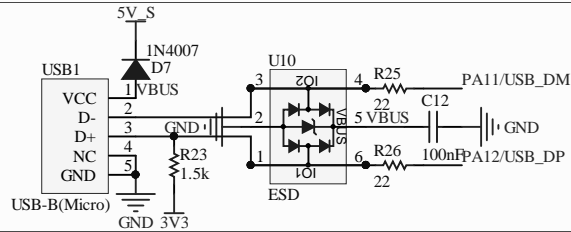
IIC



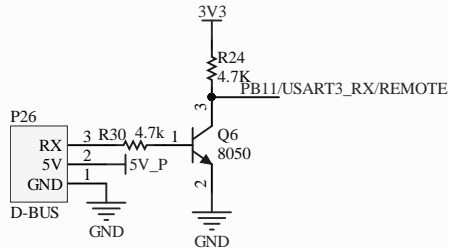
CAN



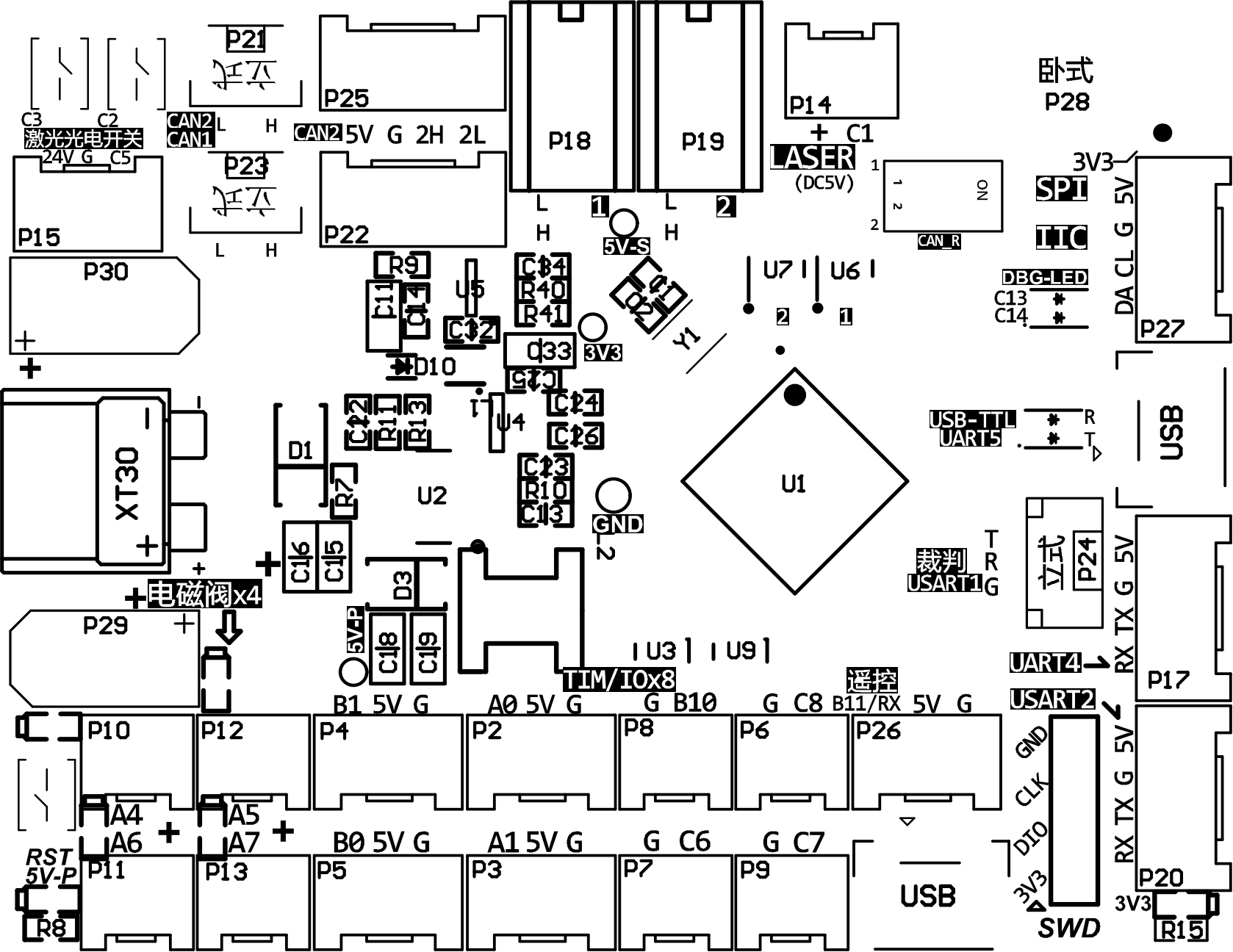
USB



DBUS



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A2 A3

C11 C10

B7 B6



USART1/裁判
RX - A10
TX - A9

USART2
RX - A3
TX - A2

USART3/Remote
RX - B10

UART4
RX - C11
TX - C10

UART5/USB-TTL
RX - D2
TX - C12



SPI
SCK - B4
MISO- B5
MOSI- B5
NSS - A15
IOR - C15

CAN1
RX - B8
TX - B9

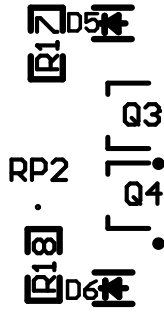
CAN2
RX - B12
TX - B13

USB
DM - A11
DP - A12

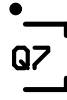
IIC
SCL - B6
SDA - B7

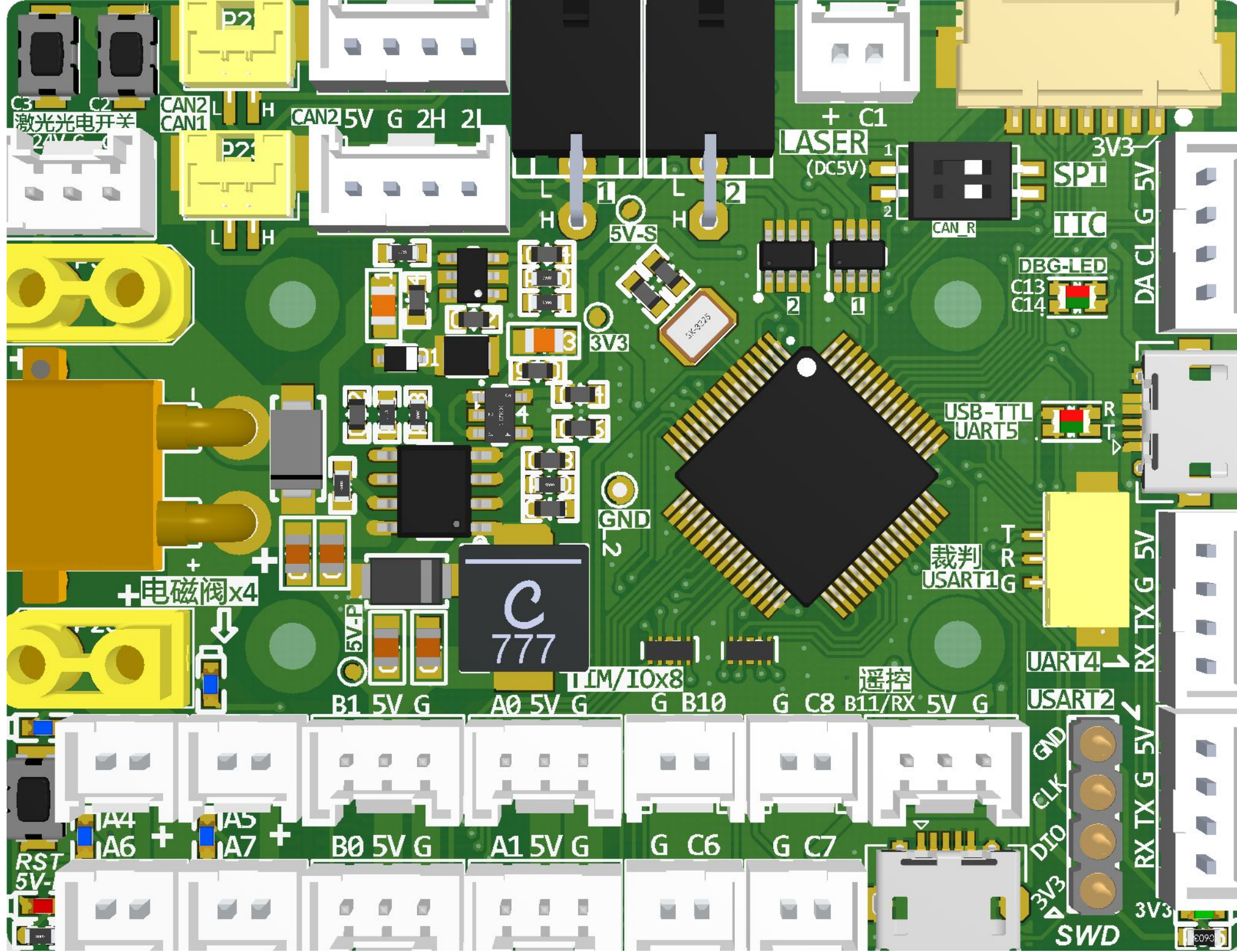
· RP4 · RP1

HUST-RM 通用开发板typeB V2.0



激光光电开关
PWR_Ctr1 - C4
Signal_IN - C5





A2 A3

C11 C10

B7 B6

Designed by LCL

SPI
SCK - B5
MISO- B4
MOSI- B5
NSS - A15
IQR - C15
CAN1
RX - B8
TX - B9
CAN2
RX - B12
TX - B13
USB
DM - A11
DP - A12
IIC
SCL - B6
SDA - B7

USART1/裁判
RX - A10
TX - A9
USART2
RX - A3
TX - A2
USART3/Remote
RX - B10
UART4
RX - C11
TX - C10
UART5/USB-TTL
RX - D2
TX - C12

langya
HUST ROBOTMASTER

HUST-RM 通用开发板typeB
V2.0

激光光电开关
PWR_Ctrl - C4
Signal_IN - C5