

RS485


RS232

取消供电，否则导致2596发热

The diagram shows a CAN bus interface. On the left, a yellow box represents the CAN controller with pins CANH (pin 1) and CANL (pin 2). On the right, a yellow box represents the USB to UART module. It has pins: +5V (pin 1), GND (pin 2), CH340 D- (pin 3), CH340 D+ (pin 4), and Y5SS (pin 5). The USB\_M pin is also indicated. The connections are: CANH to CH340 D-, CANL to CH340 D+, and +5V to GND.

[illegible]

### LED改PWM



The diagram shows a 3.3V voltage source connected to two resistors, R3 and R4, both labeled 1KΩ. R3 is connected to the anode of a green LED (D2), which is labeled LED\_G. R4 is connected to the anode of a red LED (D3), which is labeled LED\_R. Both LEDs have their cathodes connected to ground.

Key &amp; LED

**改为可调版本的降低供电电压**

470μF电容改220，电感改小一号

LM2596S-5.0

-5V

GND

加延时启动，470μF电容改220，电感改小一号，二极管改搭扑

LM2596S-5.0

-5V

GND

实际电路取消了12V电压规格，  
短接12V和5V网络以及把-12V直接改为-5V，  
因此实际供电电压为±5V

取消供电，否则导致2596发热

The diagram shows a 3.3V voltage regulator. Three 100mF capacitors, labeled C50, C51, and C53, are connected in parallel. C50 is connected between the input pin and ground. C51 is connected between the output pin and ground. C53 is connected between the ground pin and ground. The input pin is labeled 3.3V and the ground pin is labeled GND.

### Minimum System

USART For PC

CAN BUS

注意隔热

Temp&amp;Humi Sensor

Diagram showing the RS2 module connected to the 485-A, 485-B, and GND lines. The module is labeled RS2 and has pins 1, 2, and 3. Pin 1 is connected to 485-A, pin 2 to 485-B, and pin 3 to GND.

## Signal Interface

47uF can be changed to 10uF

留散热片位置

改10K

稳压二极管封装应改为3LL41

参考475R

加低通滤波器吗?

AD620增益公式: 反比  
 $R_g = 49.4K / (G - 1)$   
 $G = (49.4K / R_g) + 1$

LM336封装1、3引脚, 电容可以拆

AD620封装1、3引脚, 电容可以拆

输出滤波？

一般不选，建议改为兆欧电阻为：

AD623才是轨到轨

换LDO单电源

-5V  
+5V

C35  
100nF

C38

SGND

47uF can be changed to 10uF

耐压一极对应接成图 1-11

降压二极管封装应改为L41

类欧电阻表示

加低通滤波器吗？

AD-Vout0

U8

AD620ARZ-REEL

同轨

LM336封装1、3脚断，电容可以拆

参考2008左右

U15

1KΩ

+5V

U8

AD620ARZ-REEL

Force+2

Force-2

+5V

-5V

AD623才是轨到轨

换LDO单电源

C33

-5V

100nF

SGND

C36

+5V

100nF

SGND

PA &amp; Current Detect &amp; Voltage Detect

Title <b>IPMC Driver</b>		
Size A2	Number	Revision <b>1.0</b>
Date: 2019/4/12	Sheet of	
File: F:\MyData\IPMC\MACP\SchDisc	Drawn By: <b>YYH</b>	