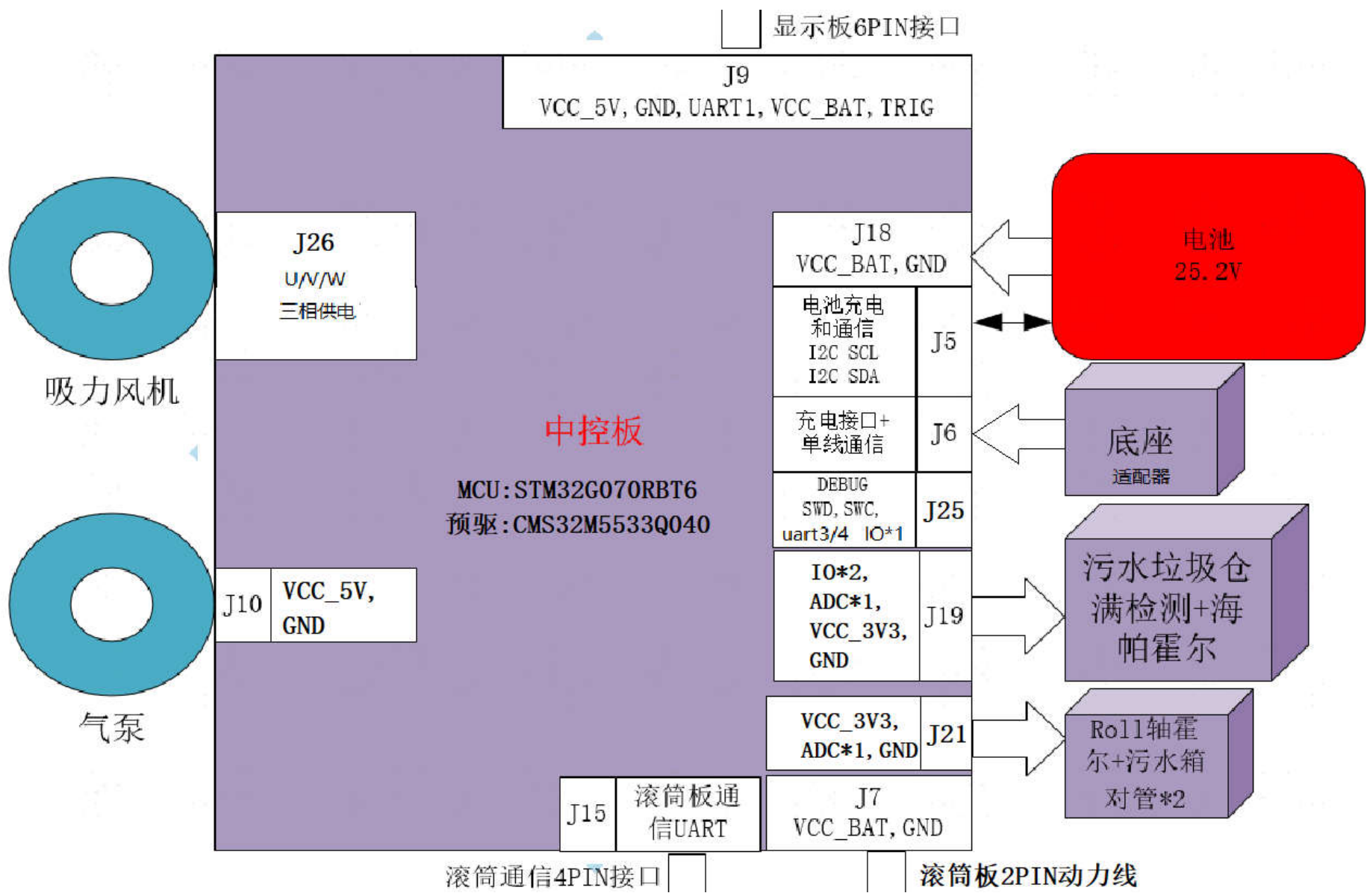
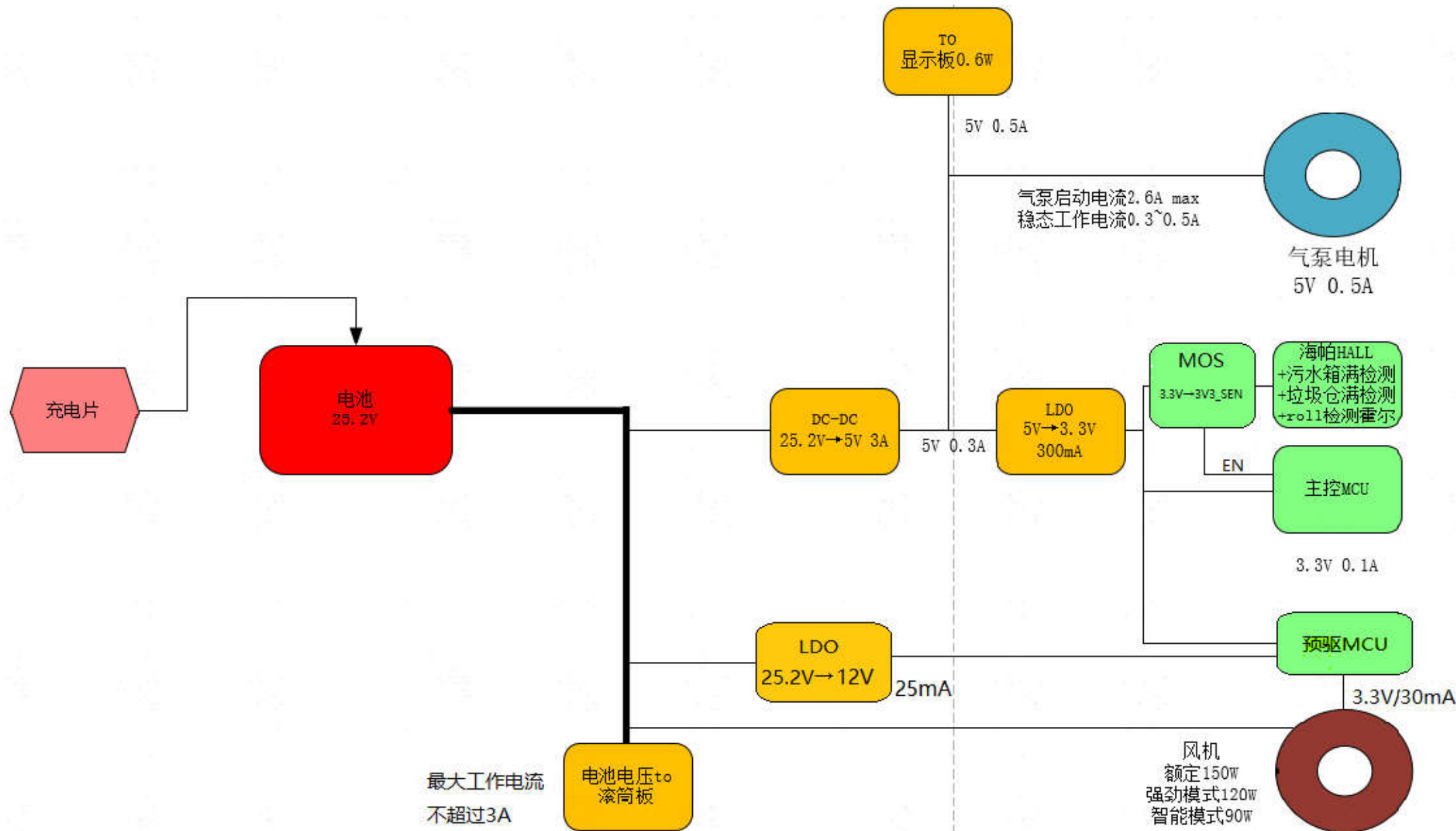
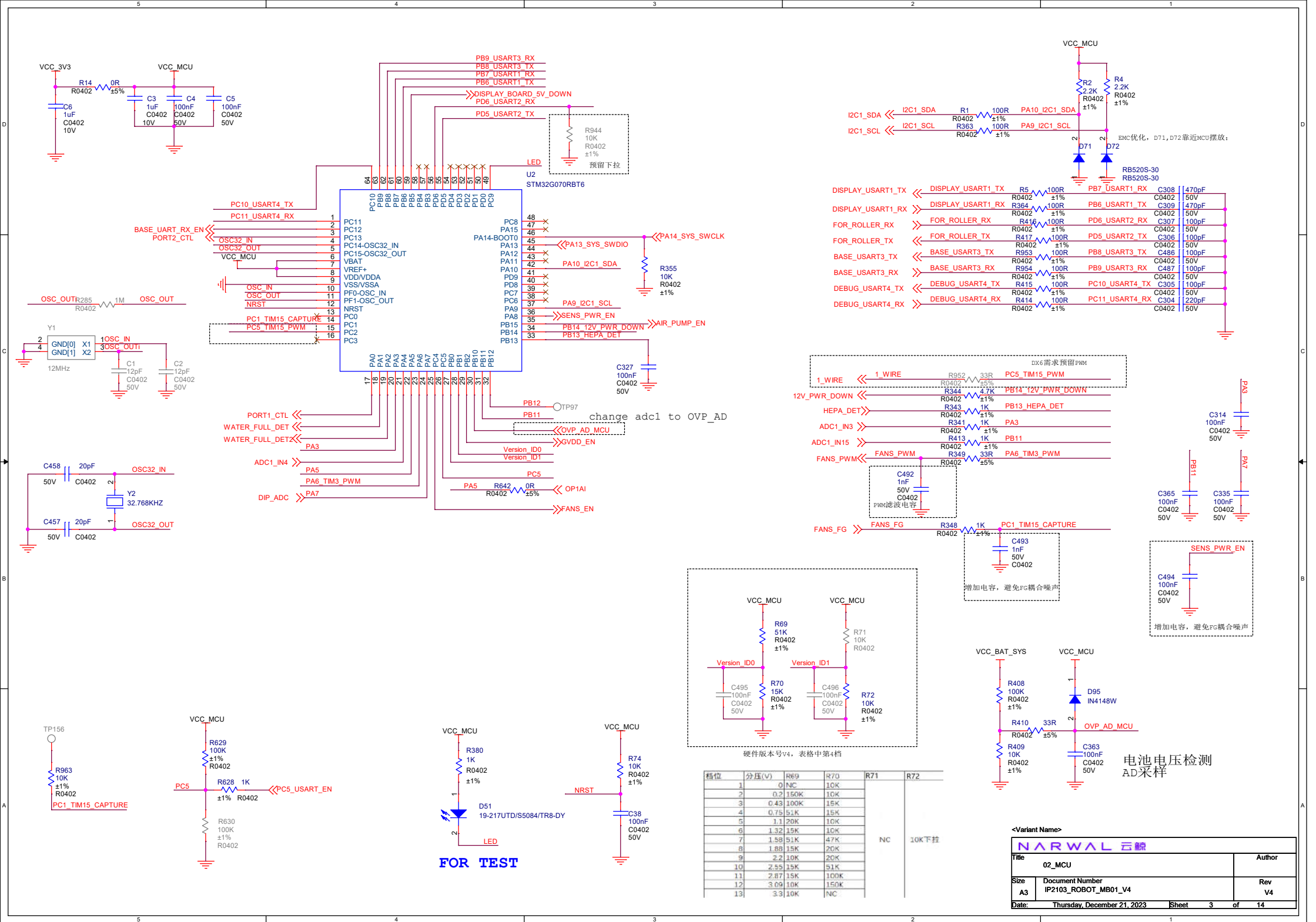






<Variant Name>

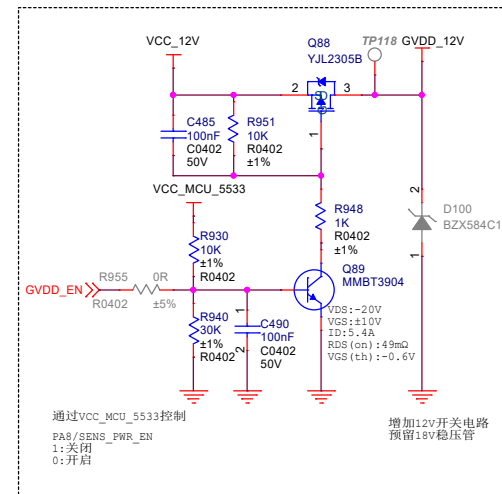
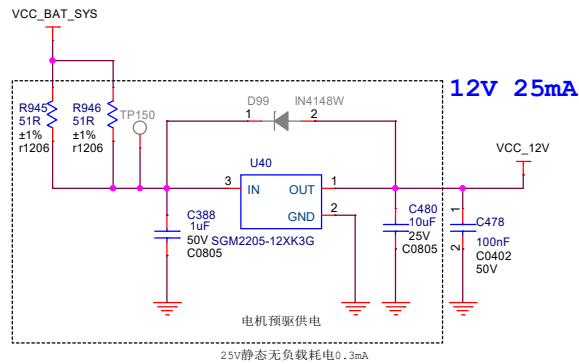
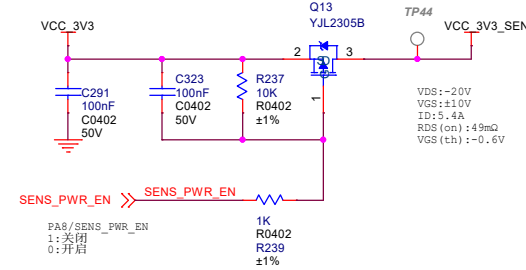
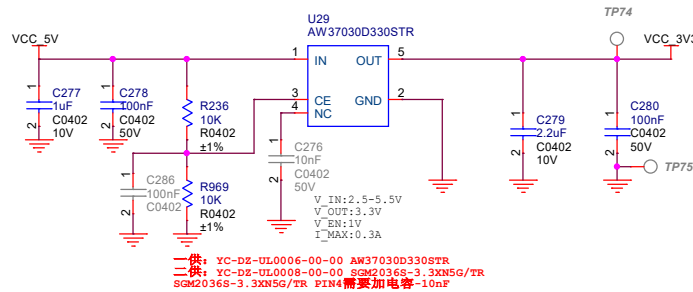
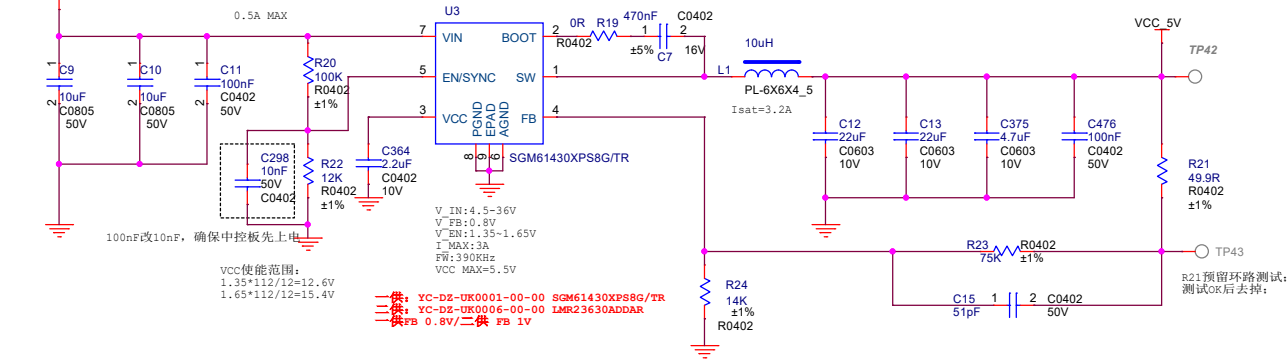
NARWAL 云鲸		
Title		Author
01_POWER TREE		
Size	Document Number	Rev
A4	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 2 of 14



BAT voltage : 16V~25.2V

BOOT to SW :-0.3V to 5.5V
18-25.2V->5.0V
Vout=0.8*(1+75/14)=5.08V

5V 3Amax

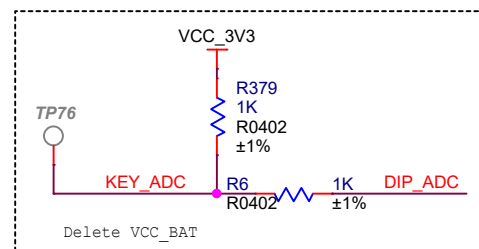
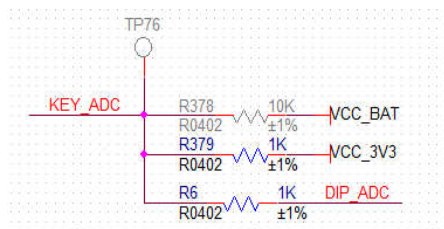
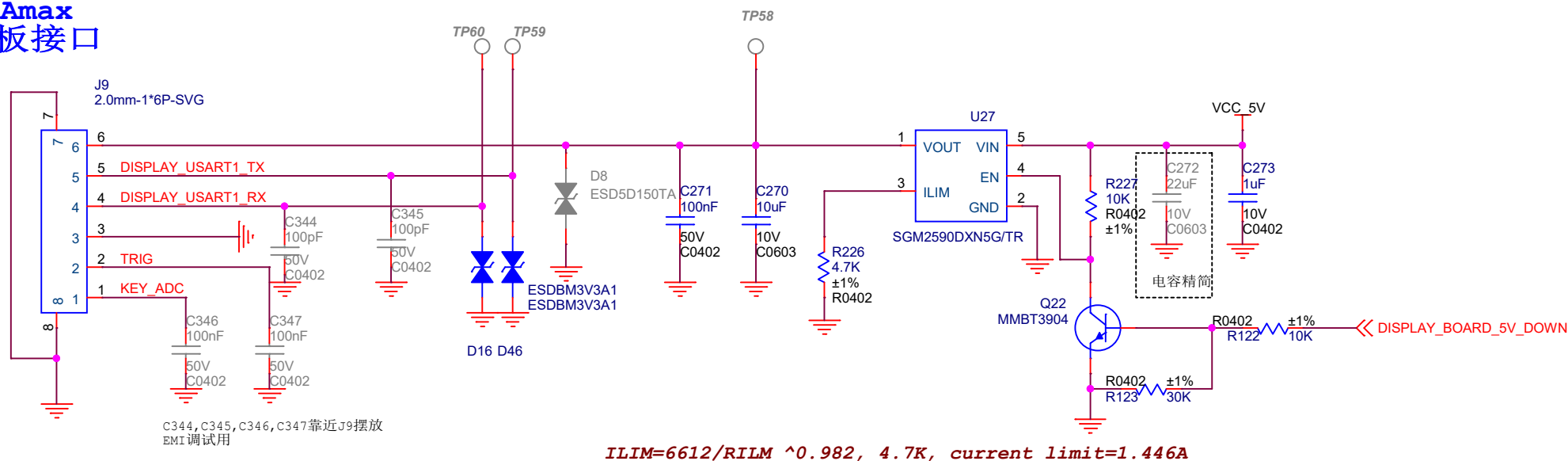


<Variant Name>

NARVAL 云鲸		
Title	03_POWER	Author
Size	Document Number	Rev
A3	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 4 of 14

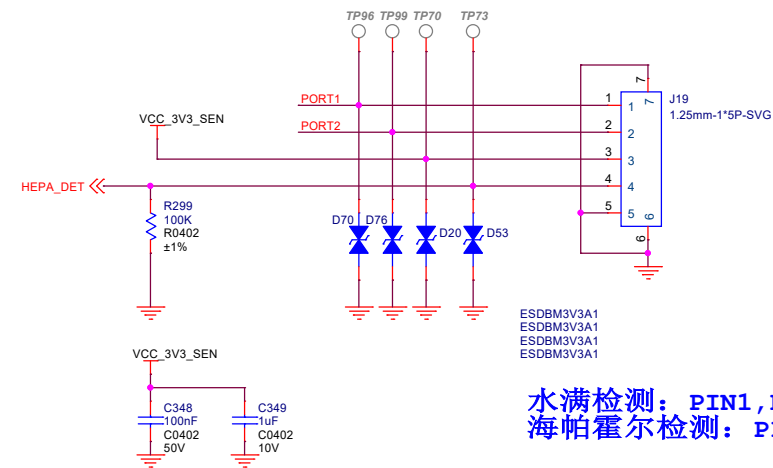
DISPLAY_USART1_TX << DISPLAY_USART1_TX
DISPLAY_USART1_RX << DISPLAY_USART1_RX
TRIG << TRIG
DIP_ADC << DIP_ADC

5V 1Amax 显示板接口

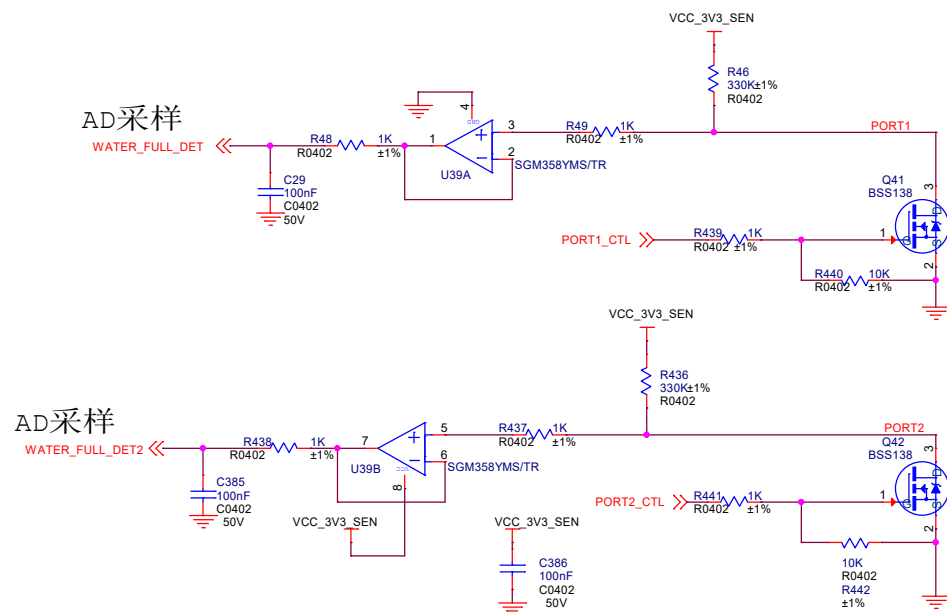


<Variant Name>

NARWAL 云鲸		
Title		Author
04_DISPLAY_CONN		
Size	Document Number	Rev
A4	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 5 of 14



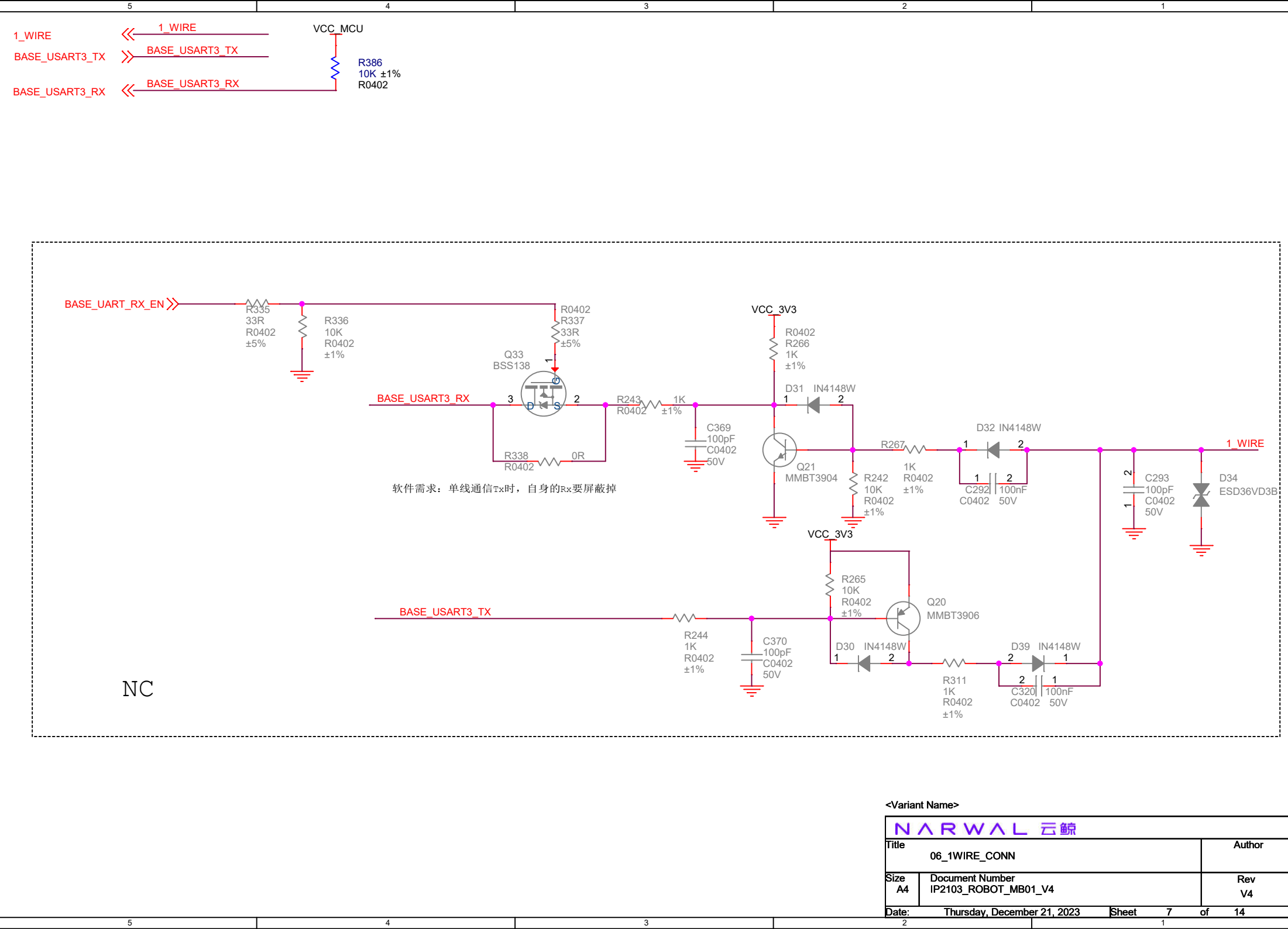
污水满检测PORT1 PORT2增加换向检测



<Variant Name>

NARWAL 云鲸

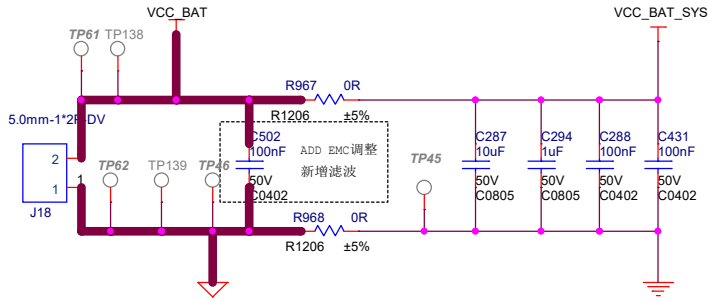
Title		Author
05_WATER_AND_HALL_DET		
Size	Document Number	Rev
A3	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 6 of 14



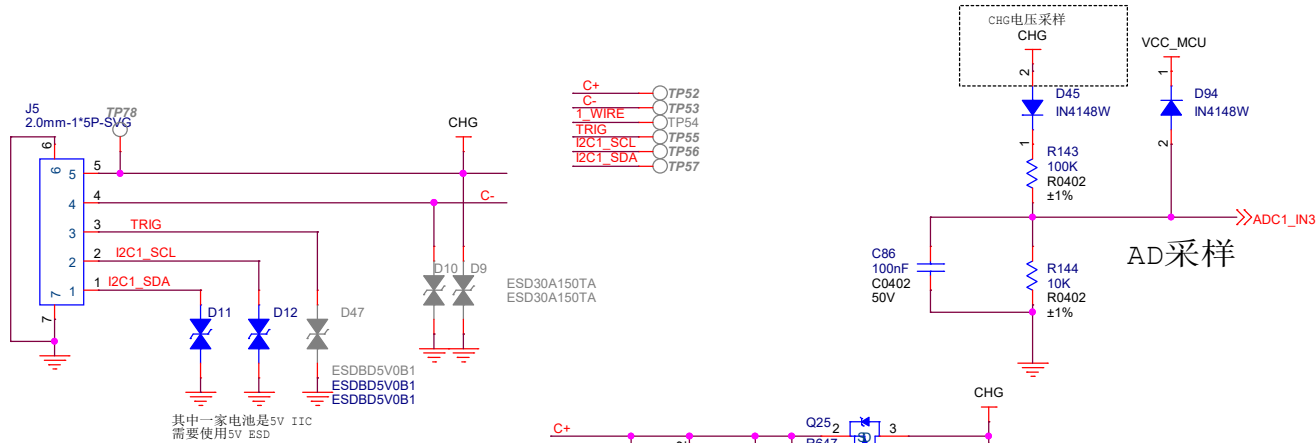
<Variant Name>

NARWAL 云鲸		
Title06_1WIRE_CONN		Author
SizeA4	Document NumberIP2103_ROBOT_MB01_V4	RevV4
Date:Thursday, December 21, 2023		Sheet7 of 14

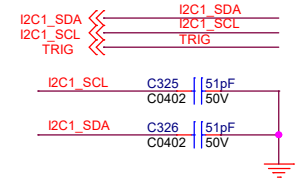
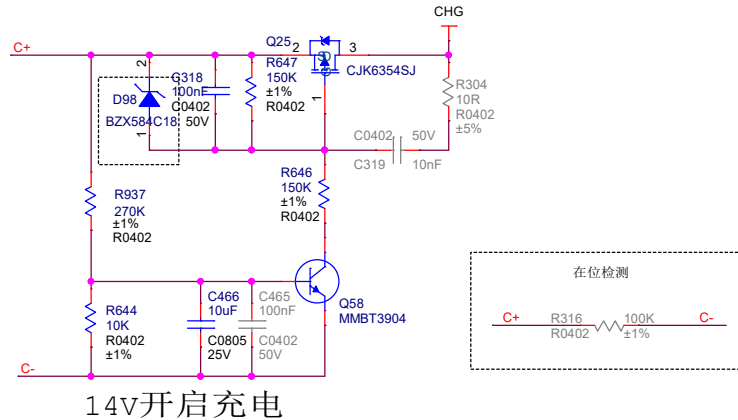
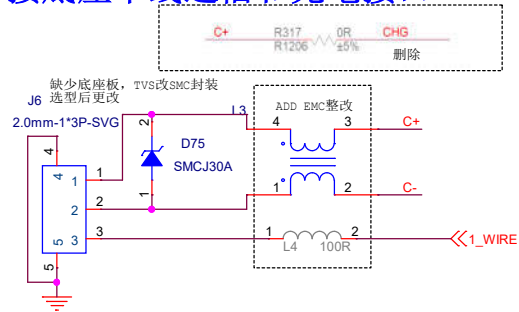
电池放电口



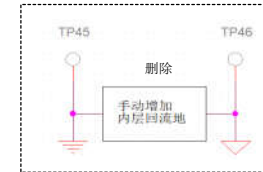
电池充电和I2C通信，与底座单线通信接口



接底座单线通信和充电接口



先不贴，回板验证确认是否增加



功率地 数字地做分割
数字地在J3 附近回流

<Variant Name>

NARVAL 紫鲸

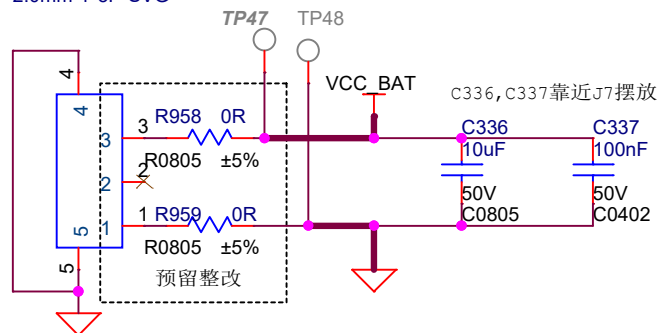
Title		Author
07_BATTERY_CONN		
Size	Document Number	Rev
B	IP2103_ROBOT_MB01_V4	V4
Date:		Sheet 8 of 14
Thursday, December 21, 2023		



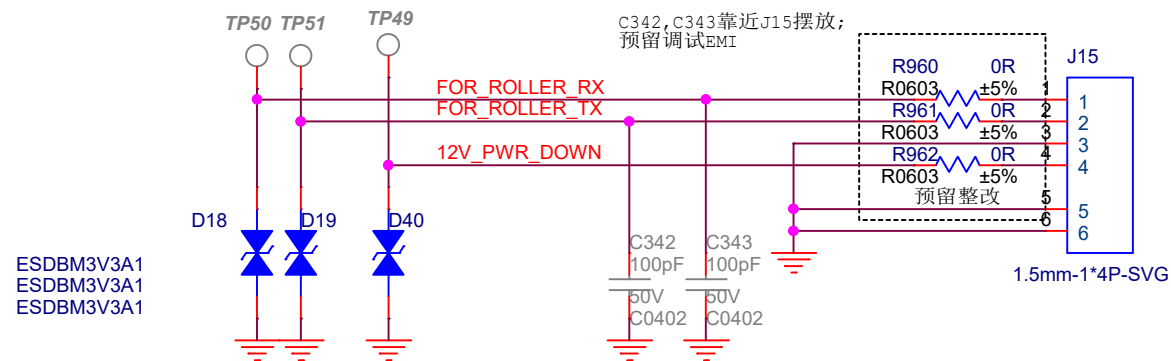
<Variant Name>

NARWAL 云鲸		
Title	08_MOTOR1	Author
Size	Document Number	Rev
A3	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 9 of 14

J7 2.0mm-1*3P-SVG



工作电流预留3A



FOR_ROLLER_RX << FOR_ROLLER_RX

FOR_ROLLER_TX >> FOR_ROLLER_TX

12V_PWR_DOWN >> 12V_PWR_DOWN

滚筒板接口

NARWAL 云鲸		
Title		Author
10_Roller_CONN		曾浴华
Size	Document Number	Rev
A	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 11 of 14

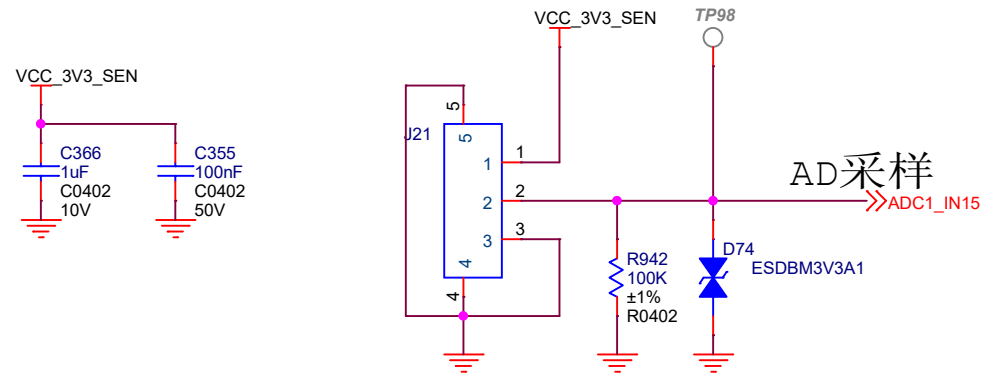
D

C

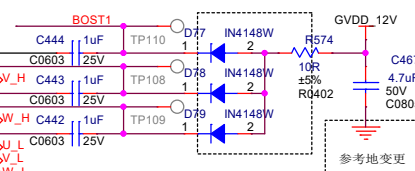
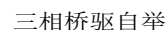
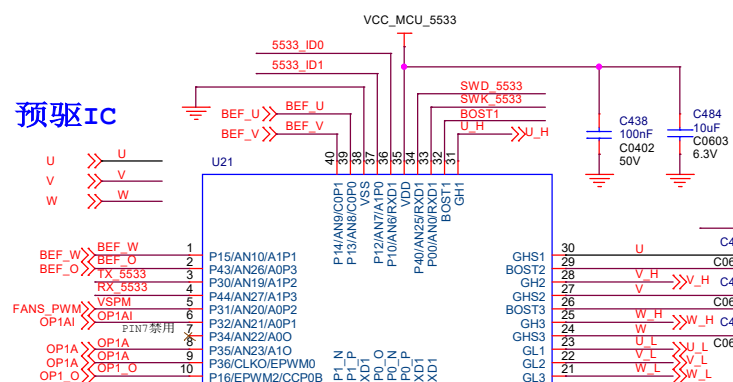
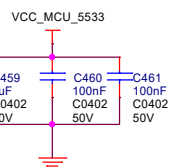
B

A

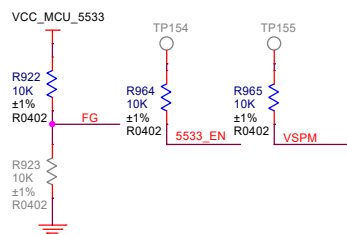
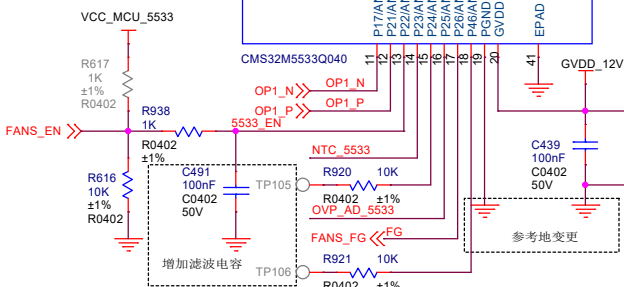
RO11轴检测霍尔



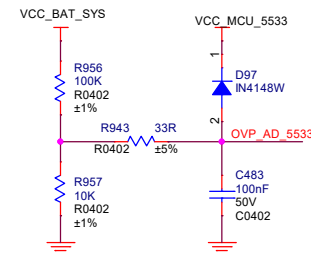
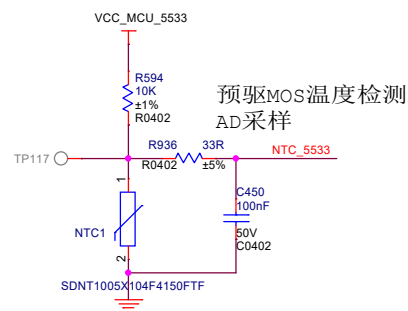
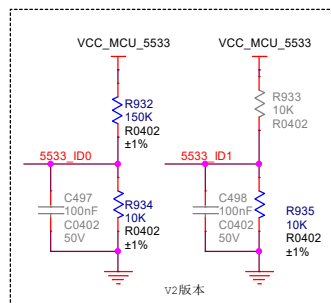
NARWAL 云鲸		
Title		Author
11_ROLL_HALL_SENSOR		曾浴华
Size	Document Number	Rev
A4	IP2103_ROBOT_MB01_V4	V4
Date:	Thursday, December 21, 2023	Sheet 12 of 14



管子更换为高速开关二极管



档位	分压(V)	R932	R934	R933	R935
1	0VNC	10K			
2	0.2150K	10K			
3	0.43100K	15K			
4	0.7551K	15K			
5	1.120K	10K			
6	1.3215K	10K			
7	1.5851K	47K			
8	1.8615K	20K			
9	2.210K	20K			
10	2.5515K	51K			
11	2.8715K	100K			
12	3.0910K	150K			
13	3.310K	NC			



NARVAL 云鲸			
Title 12_Vacumm Pump			Author 曾洛华
Size A3	Document Number IP2103_ROBOT_MB01_V4		Rev V4
Date: Thursday, December 21, 2023		Sheet 13 of 14	

