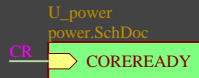
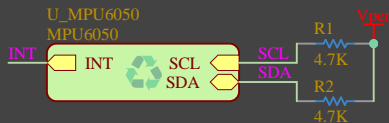


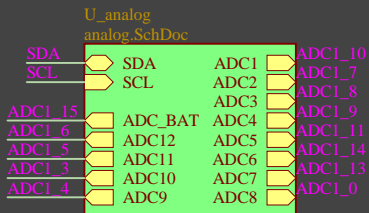
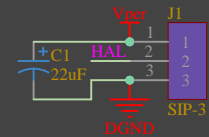
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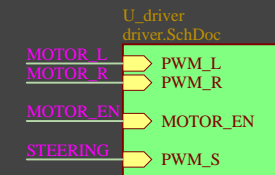
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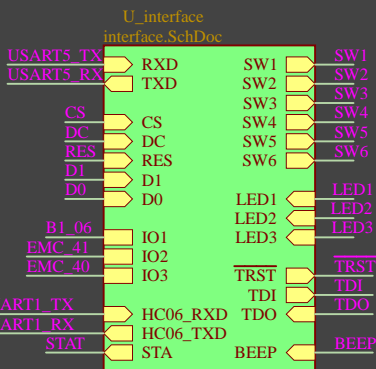
霍尔



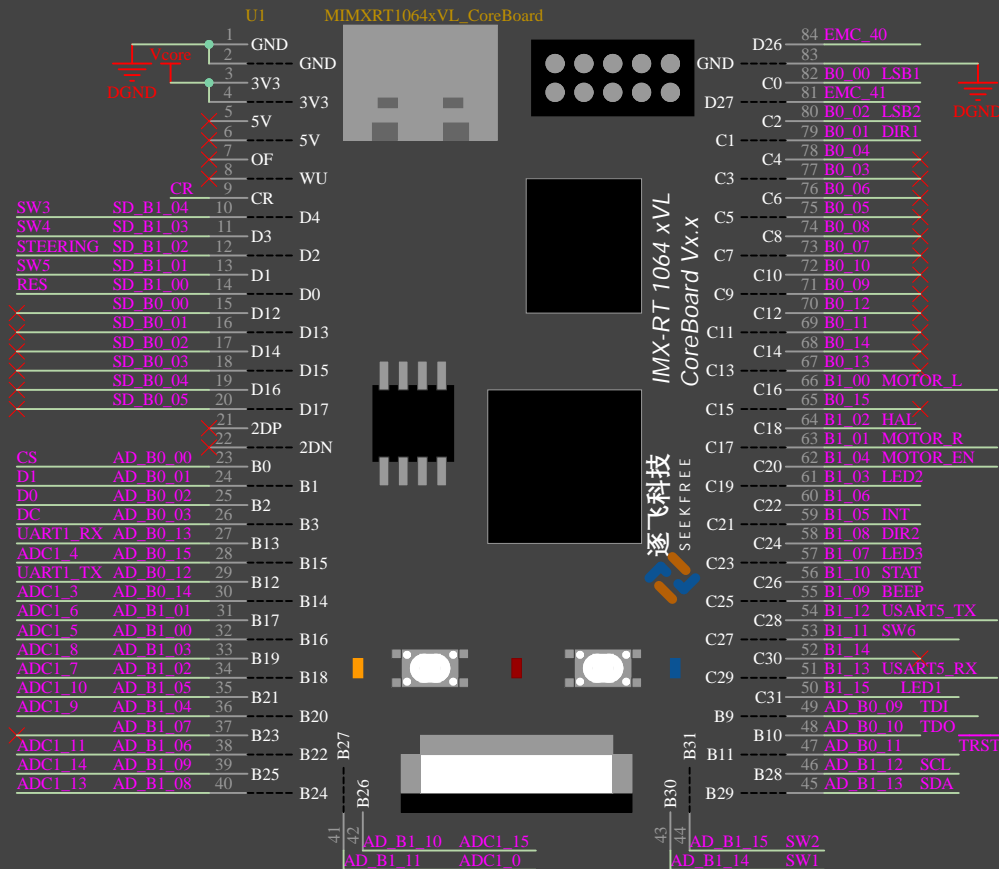
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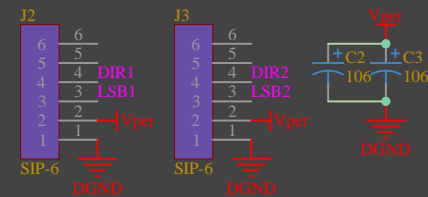


UI



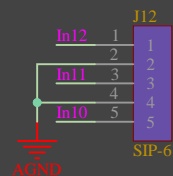
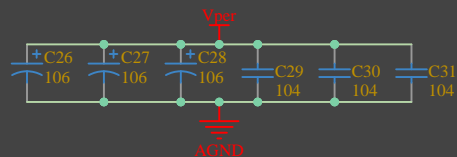
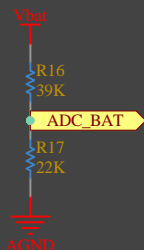
主控

编码器

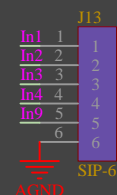
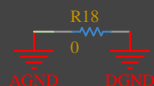
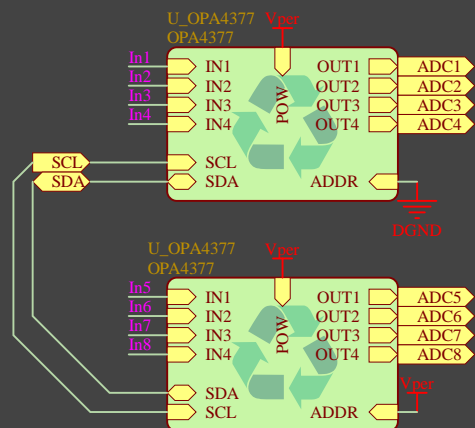


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iMag Motherboard		
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Date:	3/23/2020	Sheet of
File:	G:\SmartCar\...\top.SchDoc	Drawn By:

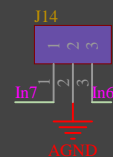
电池电压采样



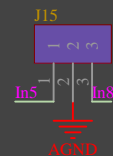
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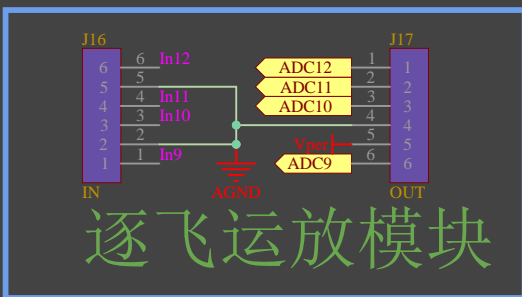
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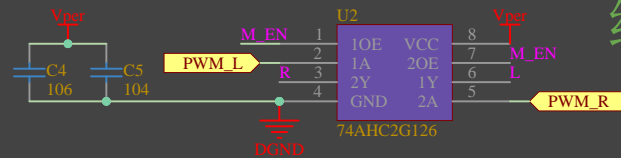


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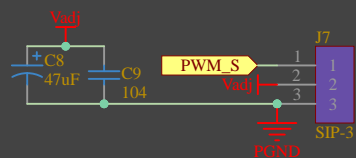
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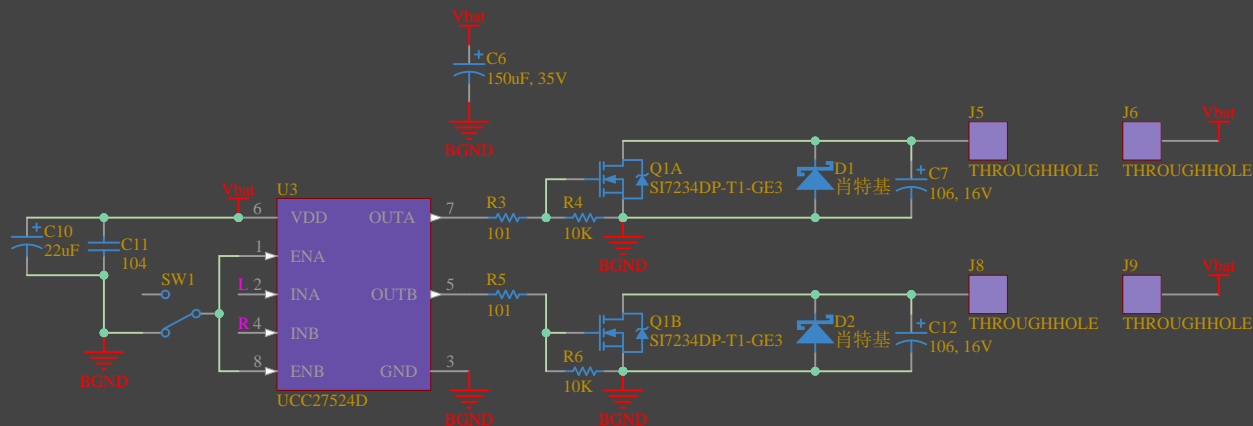


缓冲信号

MOTOR_EN M_EN



舵机接口

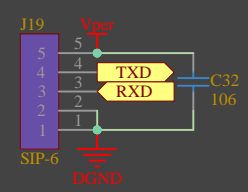


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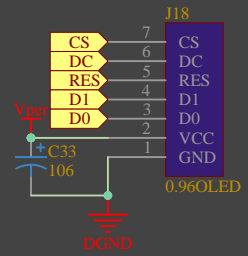
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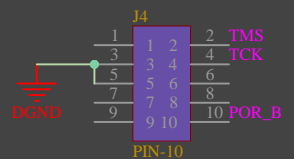
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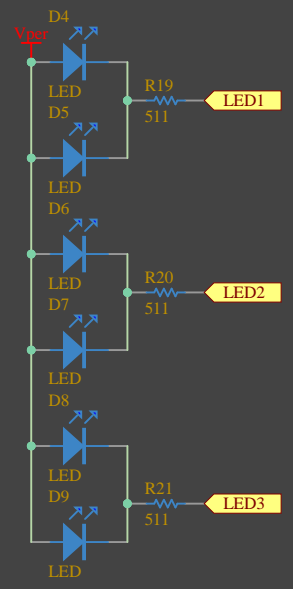
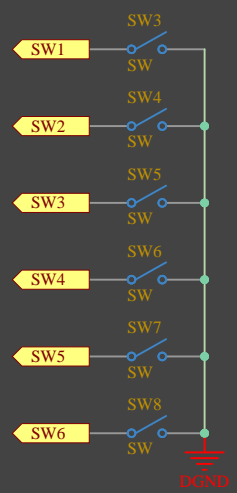
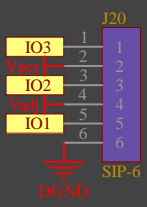
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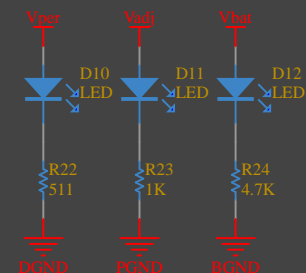
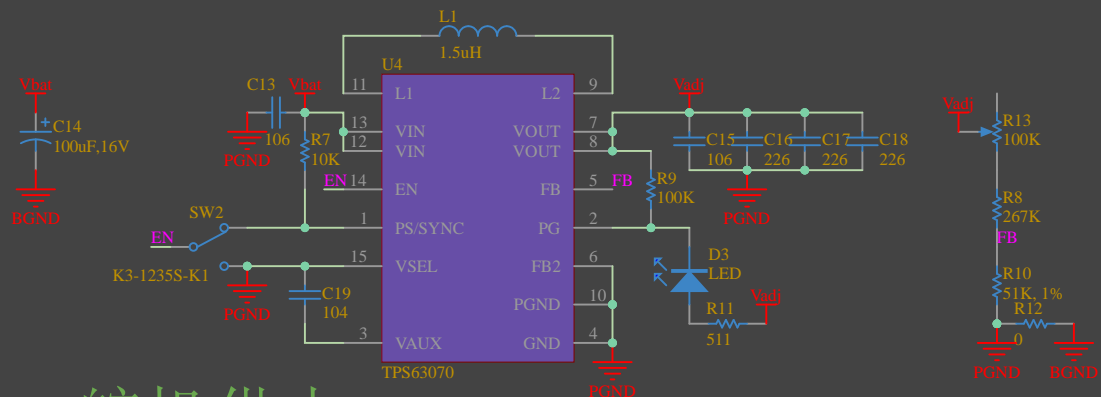
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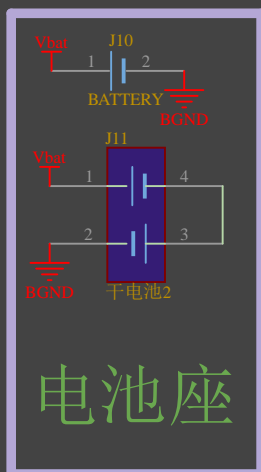
接核心板



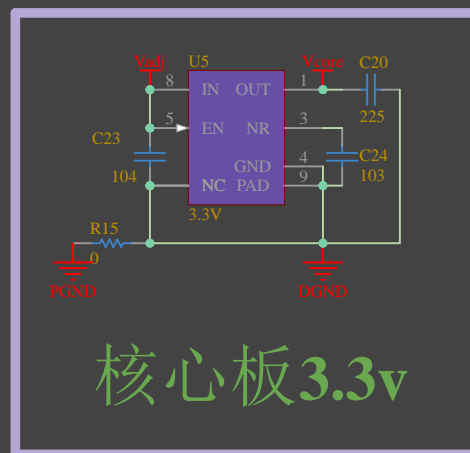
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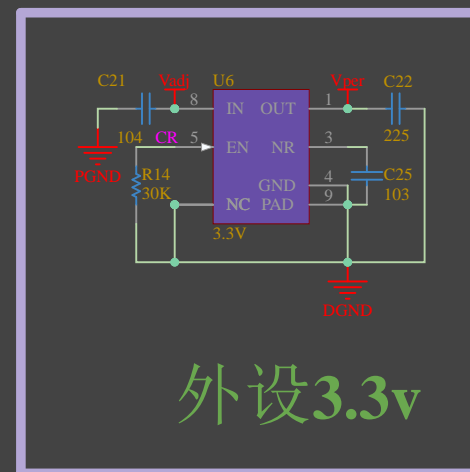
舵机供电



电池座



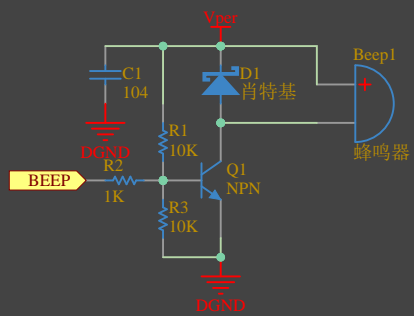
核心板3.3v



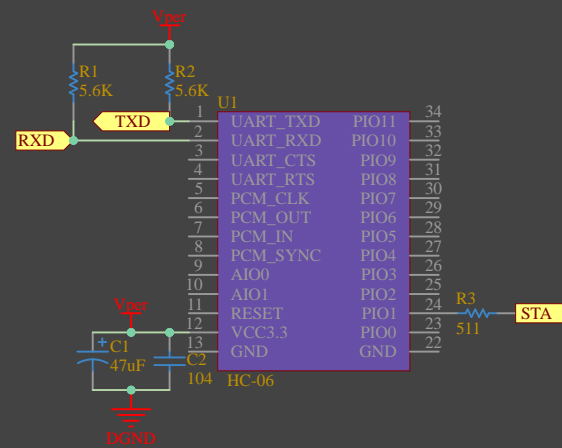
外设3.3v

COREREADY ^{CR}
外设使能

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Title		
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A

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B

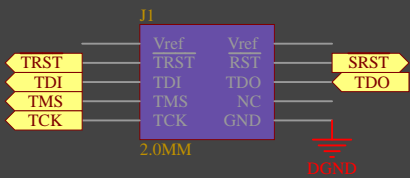
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C

D

D



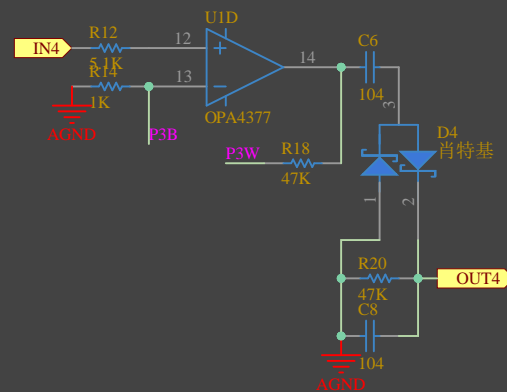
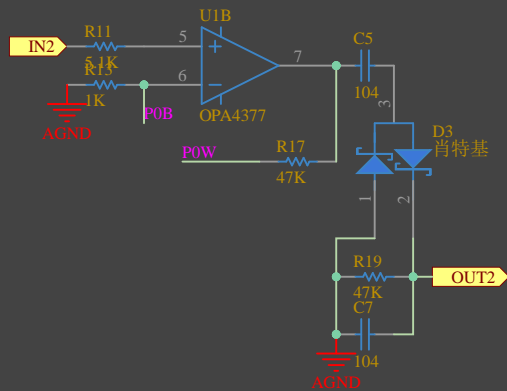
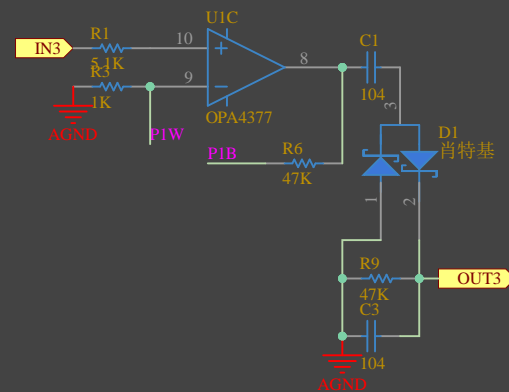
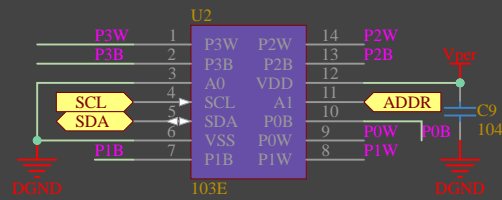
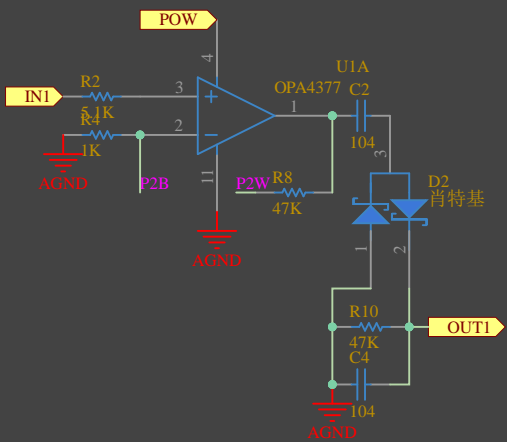
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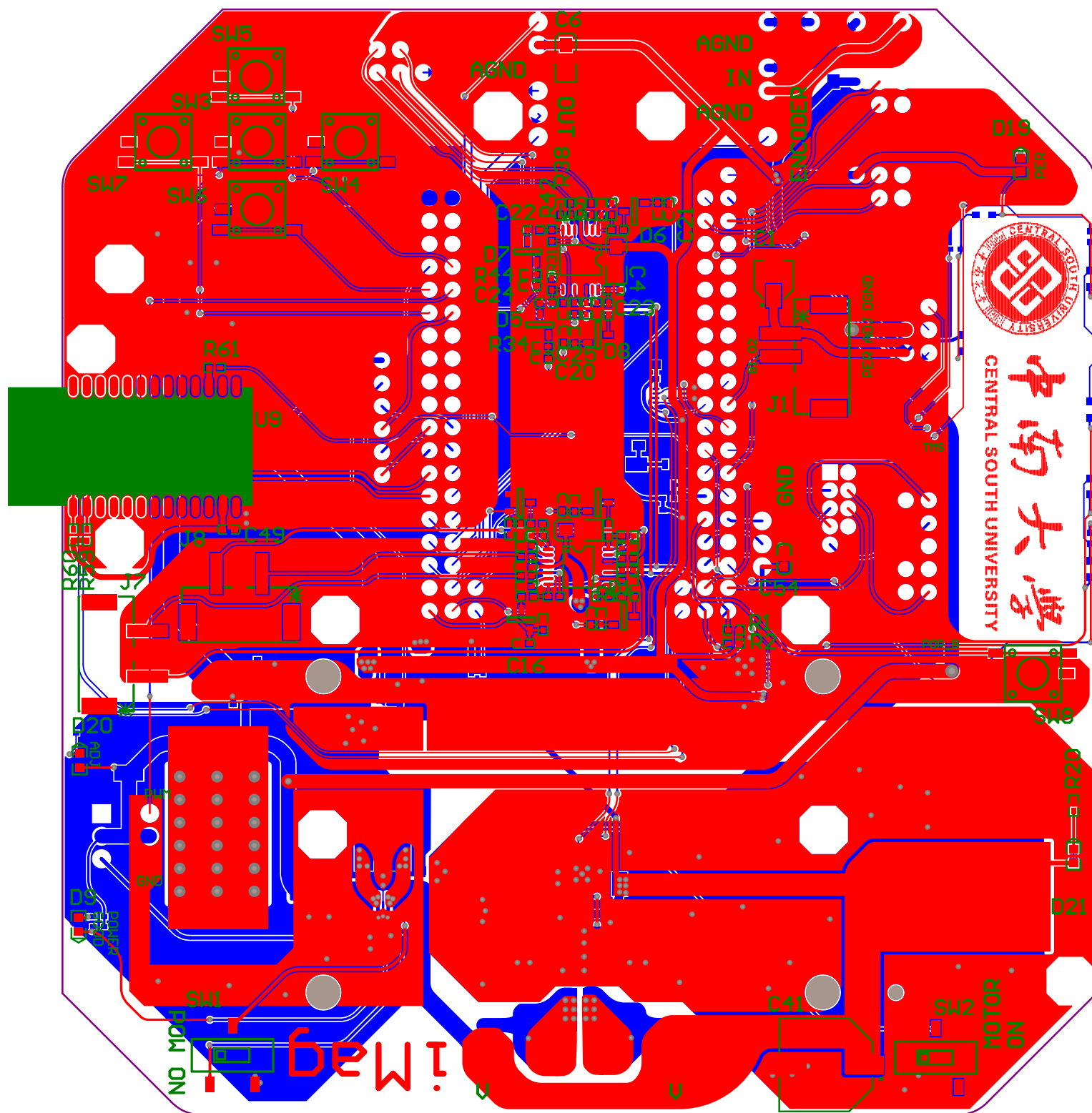
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3

4



Title		
Size	Number	Revision
A4		
Date:	3/23/2020	Sheet of
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Comment	Description	Designator	Footprint	LibRef	Quantity
蜂鸣器		Beep1	Beep-5.0*5.0	蜂鸣器	1
22uF	Polarized Capacitor (Axial)	C1, C45	贴片电解 4*5.4	电解电容	2
106	Polarized Capacitor (Axial)	C2, C3, C4, C5, C6, C55	3216-ce	电解电容	6
104	Capacitor	C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C32, C34, C36, C40, C44, C46, C49, C51, C53, C56, C57, C58	C0402	电容	31
106	Capacitor	C26, C28, C39, C54	C0603	电容	4
100uF, 16V	Polarized Capacitor (Axial)	C27	贴片电解 6.3*5.4	电解电容	1
226	Capacitor	C29, C30, C31	0805C	电容	3
225	X5R Capacitor	C33, C35	C0603	电容	2
103	Capacitor	C37, C38, C52	C0402	电容	3
150uF, 35V	Polarized Capacitor (Axial)	C41	贴片电解 10*10.5	电解电容	1
106, 16V	Polarized Capacitor (Axial)	C42, C47	贴片电解 6.3*5.4	电解电容	2
47uF	Polarized Capacitor (Axial)	C43, C48	贴片电解 6.3*5.4	电解电容	2
2.2nF	Capacitor	C50	C0402	电容	1
肖特基		D1, D2, D3, D4, D5, D6, D7, D8	SOT-23	BAT54S	8
LED	LED	D9	LED 0603R	LED	1
肖特基	Schottky Diode	D10, D11, D18	SOD-123F	肖特基	3
LED	LED	D12, D13, D14, D15, D16, D17	LED-SMD_1.1.7-W0.6-RD	LED	6
LED	LED	D19	LED 0603Y	LED	1
LED	LED	D20	LED 0603G	LED	1
LED	LED	D21	LED 0603B	LED	1
SIP-3		J1, J7, J8	XH2.54-3SMD	SIP-3	3
SIP-6		J2, J3, J6, J20	2.54简易牛角座6P	SIP-6	4
PIN-10		J4	JTAG_10P	PIN-10	1
SIP-6		J5, J19	2.54排针1X5	SIP-5	2
IN		J9	2.54排针1X6	SIP-6	1
OUT		J10	2.54排针1X6	SIP-6	1
BATTERY		J11	T接头	BATTERY	1
干电池2		J12	18650x2	干电池2	1
THROUGH-HOLE		J13, J14, J16, J17	MOTOR	MOTOR	4
SIP-3		J15	2.54排针1X3	SIP-3	1
0.96OLED		J18	OLED 0.96	OLED_SPI	1
2.0MM		J21	IDC-10P	JTAG-10P	1
1.5uH	4.6A, 14.4mOhm	L1	L5X5	贴片电感	1
SI7234DP-T1-GE3	CQ-B5170	Q1	DFN-8EP2	N沟道MOSFET	1
NPN	NPN Bipolar Transistor	Q2	SOT-23	NPN	1
4.7K	Resistor	R1, R2, R20	R0402	电阻	3
39K	Resistor	R3	R0402	电阻	1
22K	Resistor	R4	R0402	电阻	1
0	Resistor	R5, R51, R54	R0603	电阻	3
5.1K	Resistor	R6, R7, R16, R17, R26, R27, R36, R37	R0402	电阻	8
1K	Resistor	R8, R9, R12, R18, R19, R28, R29, R38, R39, R66	R0402	电阻	10
511	Resistor	R10, R50, R61, R62, R63, R64	R0402	电阻	6
47K	Resistor	R11, R13, R14, R15, R22, R23, R24, R25, R31, R33, R34, R35, R42, R43, R44, R45	R0402	电阻	16
10K	Resistor	R46, R56, R58, R65, R67	R0402	电阻	5
267K	Resistor	R47	R0402	电阻	1
100K	Resistor	R48	R0402	电阻	1
51K, 1%	Resistor	R49	R0402	电阻	1
100K		R52	3296W	电位器	1
30K	Resistor	R53	R0402	电阻	1
101	Resistor	R55, R57	R0603	电阻	2
5.6K	Resistor	R59, R60	R0402	电阻	2
K3-1235S-K1	Switch	SW1, SW2	K3-1235S-K1	单刀双掷	2
SW	Single-Pole, Single-Throw Switch	SW3, SW4, SW5, SW6, SW7, SW8	轻触开关6.2*6.2(5p) SMD	Switch	6
MIMXRT1064xVL_Cor eBoard	逐飞科技i.MX RT1064核心板整体原理，可直接使用	U1	MIMXRT1064xVL_Cor eBoard	MIMXRT1064xVL_Cor eBoard	1
OPA4377		U2, U3	TSSOP-14	4运放	2
TPS63070		U4	VOFN-15	TPS63070	1
3.3V	No Description Available	U5, U6	VSON-8	TPS73512DRBR	2
74AHC2G126		U7	VSSOP-8	74126	1
UCC27524D	No Description Available	U8	TSSOP-8EP	UCC27524D	1
HC-06	蓝牙串口模块	U9	HC-05	HC-05	1
MPU6050		U10	OFN-24, 4x4x05P	MPU6050	1
103E		U11, U12	TSSOP-14	MCP4452	2