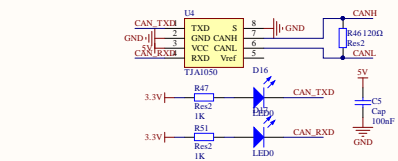
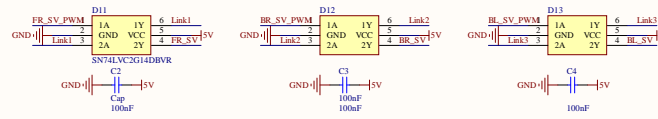
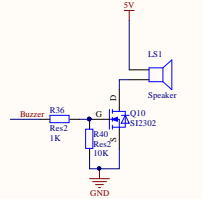
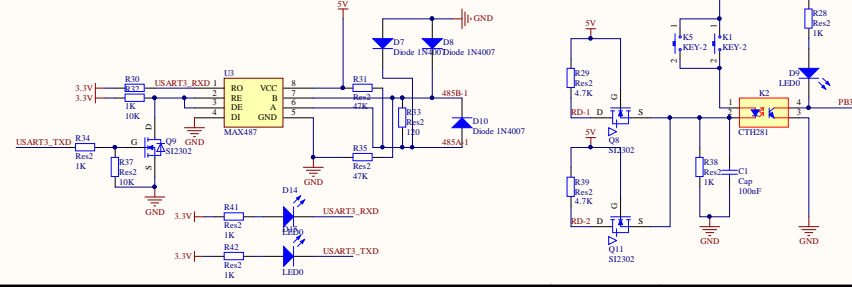
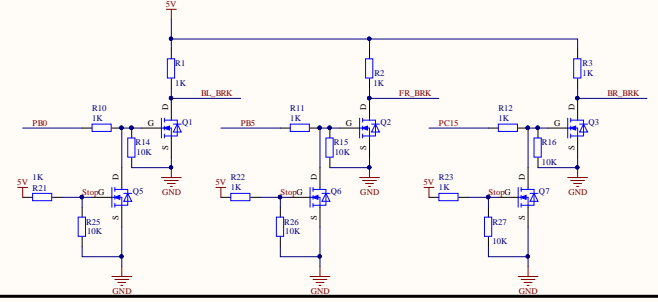
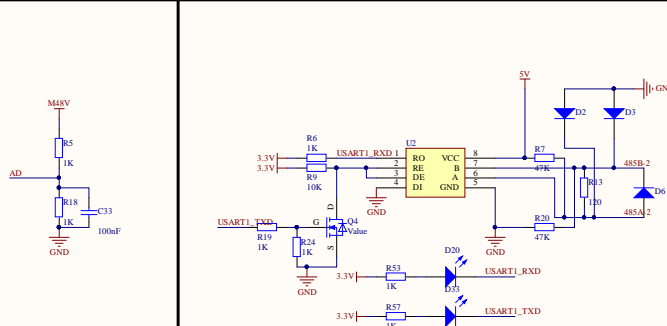
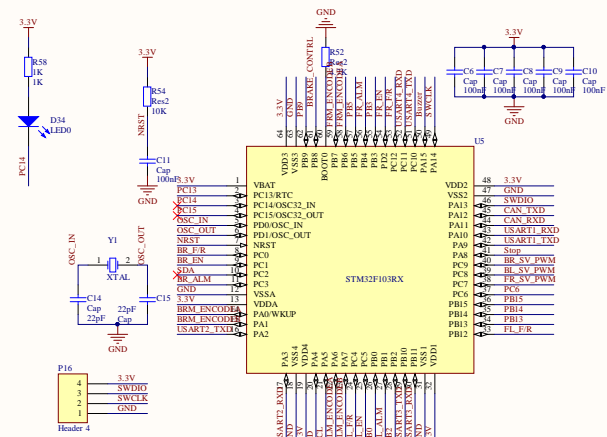
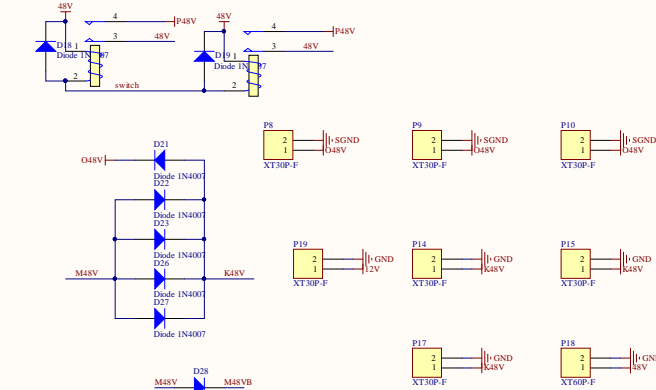


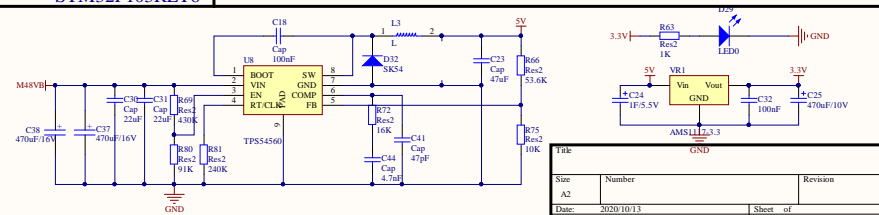
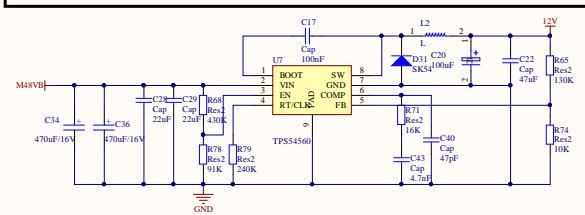
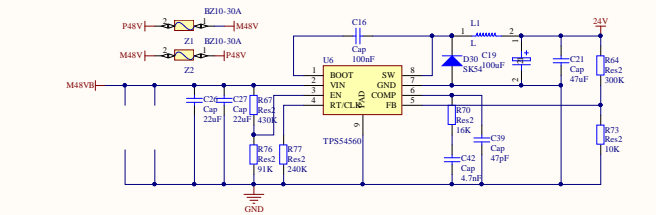
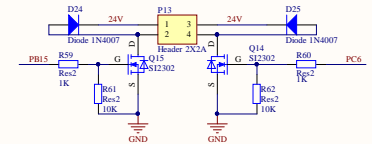
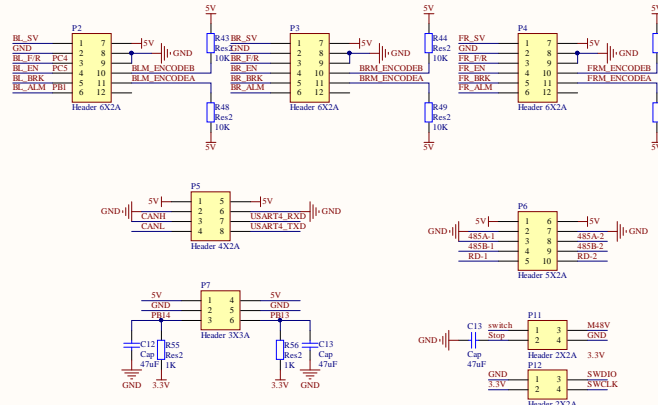
CP2102



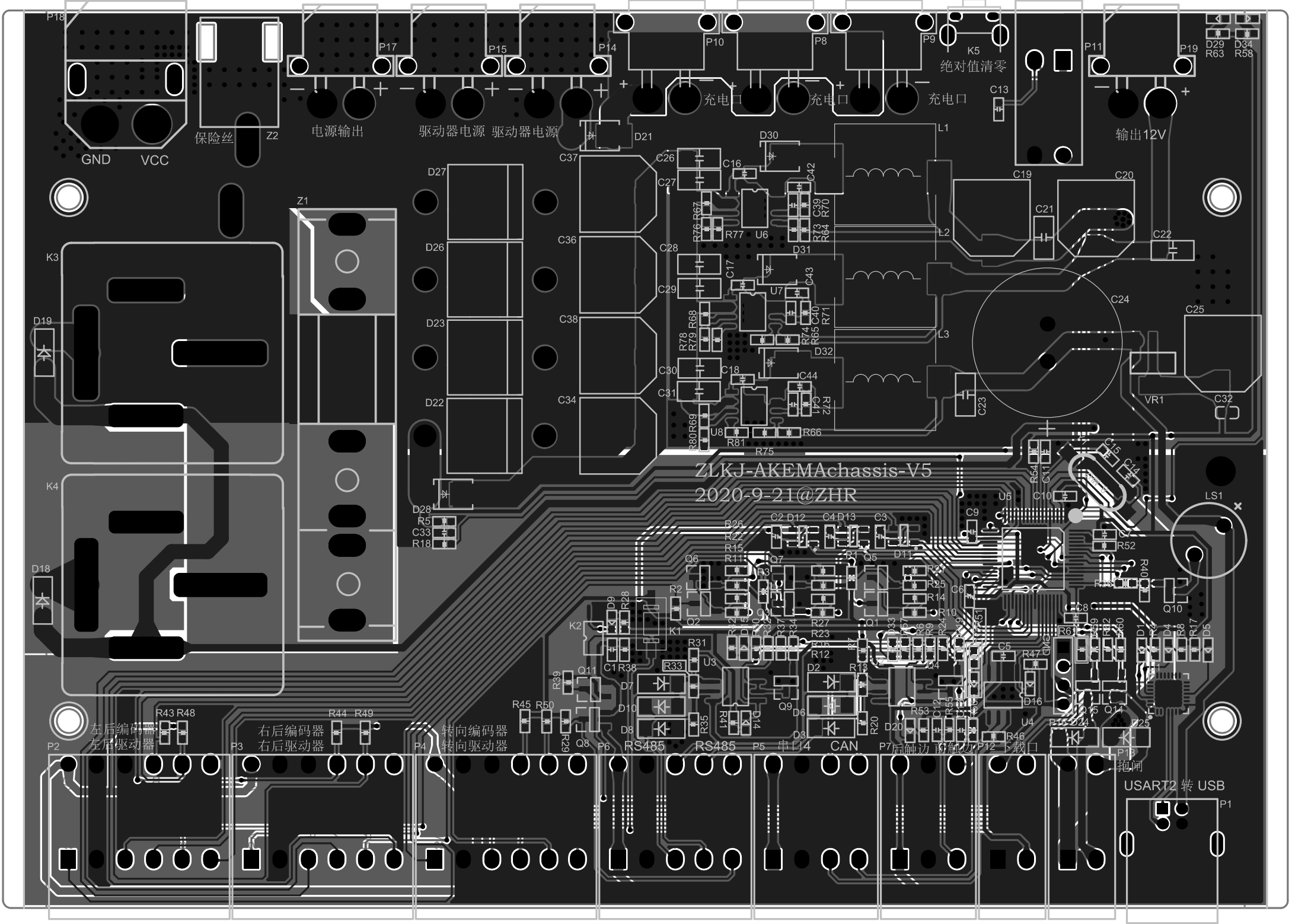
CAN



STM32F103RET6



Title		GND	
Size A2	Number	Revision	
Date:	2020/10/13	Sheet of	
File:	DA_V:\ZL\AKEMAchassis - V5\Doc\01 SchDoc		



ZLKJ-AKEMAchassis-V5  
2020-9-21@ZHR

绝对值清零

输出12V

左后编码器  
左后驱动器

右后编码器  
右后驱动器

转向编码器  
转向驱动器

USART2 转 USB

Comment	Description	Designator	Footprint	LibRef	Quantity
Cap	Capacitor	C1, C2, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C16, C17, C18, C39, C40, C41, C42, C43, C44	0603C	Cap	23
100nF	Capacitor	C3, C4, C33	0603C	Cap	3
100uF	CD1	C19, C20	电解电容10*10.2	CD1	2
Cap	Capacitor	C21, C22, C23, C26, C27, C28, C29, C30, C31	C1206	Cap	9
1F/5.5V	钽电容	C24	C-CHAOJI	3528 100uF (107) 10% 6.3V	1
470uF/10V	钽电容	C25	电解电容10*10.2	3528 100uF (107) 10% 6.3V	1
100nF	贴片电容	C32	0603_C	0603 100nF (104) 10% 50V	1
470uF/16V		C34, C36, C37, C38	电解电容10*10.2	Cap	4
Value	Typical INFRARED GaAs LED	D1, D4, D5, D20, D33	0603LED	LED0	5
Value	1 Amp General Purpose Rectifier	D2, D3, D6	D1206	Diode 1N4007	3
Diode 1N4007	1 Amp General Purpose Rectifier	D7, D8, D10, D18, D19, D24, D25	D1206	Diode 1N4007	7
LED0	Typical INFRARED GaAs LED	D9, D14, D15, D16, D17, D29, D34	0603LED	LED0	7
SN74LVC2G14DBVR		D11	SOT-23-6	SN74LVC2G14DBVR	1
Value		D12, D13	SOT-23-6	SN74LVC2G14DBVR	2
Diode 1N4007	1 Amp General Purpose Rectifier	D21, D28	S03	Diode 1N4007	2
Diode 1N4007	1 Amp General Purpose Rectifier	D22, D23, D26, D27	20A-1000	Diode 1N4007	4
SK54	1 Amp General Purpose Rectifier	D30, D31, D32	S03	Diode 1N4007	3
KEY-2		K1	KEY	KEY-2	1
CTH281		K2	CTH281	CTH281	1
K1		K3, K4	JD24V-4PIN	K1	2
KEY-2		K5	轻触开关	KEY-2	1
L		L1, L2, L3	WHC1265-8.2UH	L	3
Speaker	Loudspeaker	LS1	0905-SP	Speaker	1
Value	Header, 4-Pin	P1	USB(方口)	Header 4	1
Header 6X2A	Header, 6-Pin, Dual row	P2, P3, P4	15EDGRH3.81-6P	Header 6X2A	3
Header 4X2A	Header, 4-Pin, Dual row	P5	15EDGRH3.81-4P	Header 4X2A	1
Header 5X2A		P6	15EDGRH3.81-5P	Header 5X2A	1
Header 3X3A		P7	15EDGRH3.81-3P	Header 3X3A	1
XT30P-F	Header, 2-Pin	P8, P9, P10	XT30P-F	Header 2	3
Header 2X2A		P11, P12, P13	15EDGRH3.81-2P	Header 2X2A	3
XT30P-F	Header, 2-Pin	P14, P15, P17, P19	XT30PW-F	Header 2	4
Header 4	Header, 4-Pin	P16	HDR1X4	Header 4	1
XT60P-F	Header, 2-Pin	P18	XT60PW-M20	Header 2	1
Value		Q1, Q2, Q3, Q4, Q5, Q6, Q7	MOS-SOT-2302 - duplicate	MOS_N	7
SI2302		Q8, Q9, Q10, Q11, Q14, Q15	MOS-SOT-2302 - duplicate	MOS_N	6
1K	Resistor	R1, R2, R3, R4, R5, R6, R8, R10, R11, R12, R17, R18, R19, R21, R22, R23, R24, R53, R57, R58	0603R	Res2	20
47K	Resistor	R7, R20	0603R	Res2	2
10K	Resistor	R9, R14, R15, R16, R25, R26, R27	0603R	Res2	7
120	Resistor	R13	0603R	Res2	1
Res2	Resistor	R28, R29, R30, R31, R32, R33, R34, R35, R36, R37, R38, R39, R40, R41, R42, R43, R44, R45, R46, R47, R48, R49, R50, R51, R52, R54, R55, R56, R59, R60, R61, R62, R63, R64, R65, R66, R67, R68, R69, R70, R71, R72, R73, R74, R75, R76, R77, R78, R79, R80, R81	0603R	Res2	51
Value		U1	CP2102	CP2102	1
Value		U2	RS-485	MAX487	1
MAX487		U3	RS-485	MAX487	1
TJA1050		U4	TJA1050	TJA1050	1
STM32F103RX		U5	STM32F103RX	STM32F103RX	1
TPS54560		U6, U7, U8	TPS54560	TPS54560	3
AMS1117-3.3	低压差线性稳压 (LDO)	VR1	SOT-223	SOT-223 AMS1117-3.3	1
XTAL	Crystal Oscillator	Y1	XATL	XTAL	1
BZ10-30A		Z1	RP18-2	BZ10-30A	1
BZ10-30A		Z2	立式中号汽车保险座	BZ10-30A	1