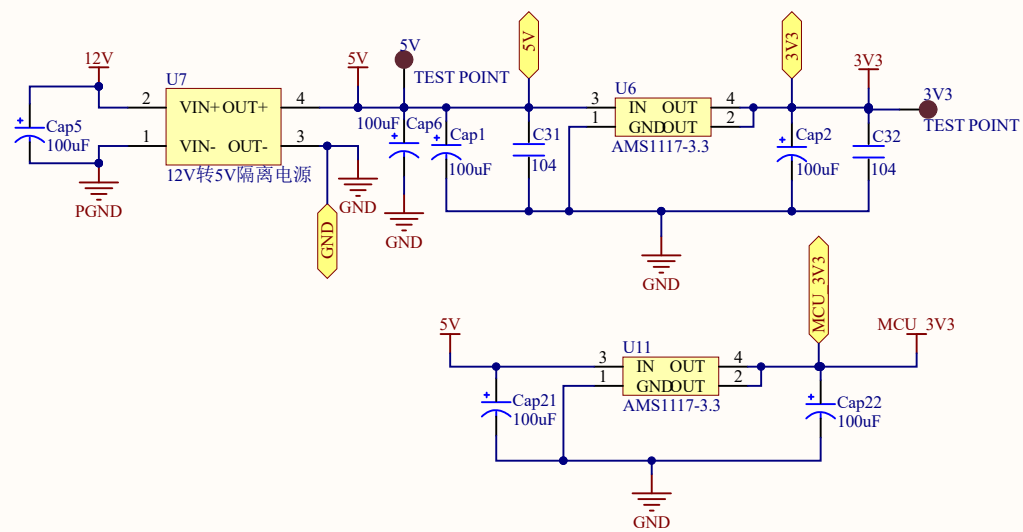
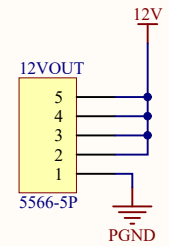


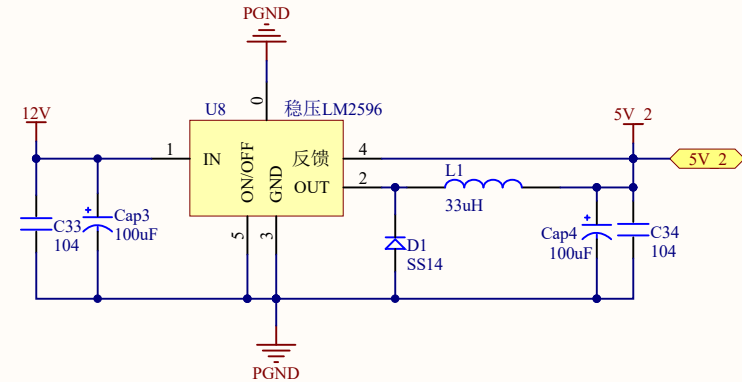
5V带隔离输出



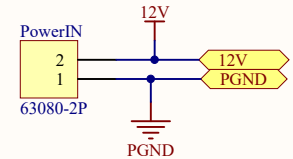
输出电源接口



5V输出

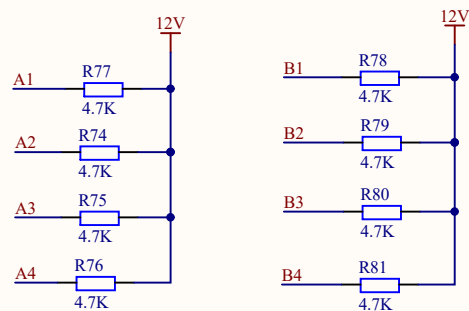
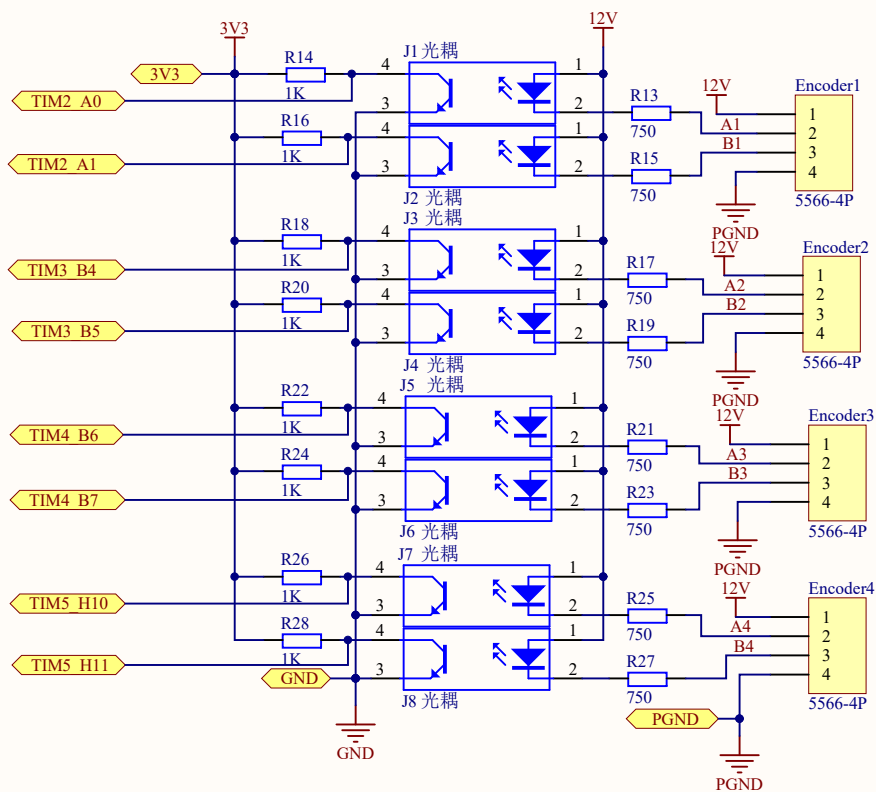


输入电源接口



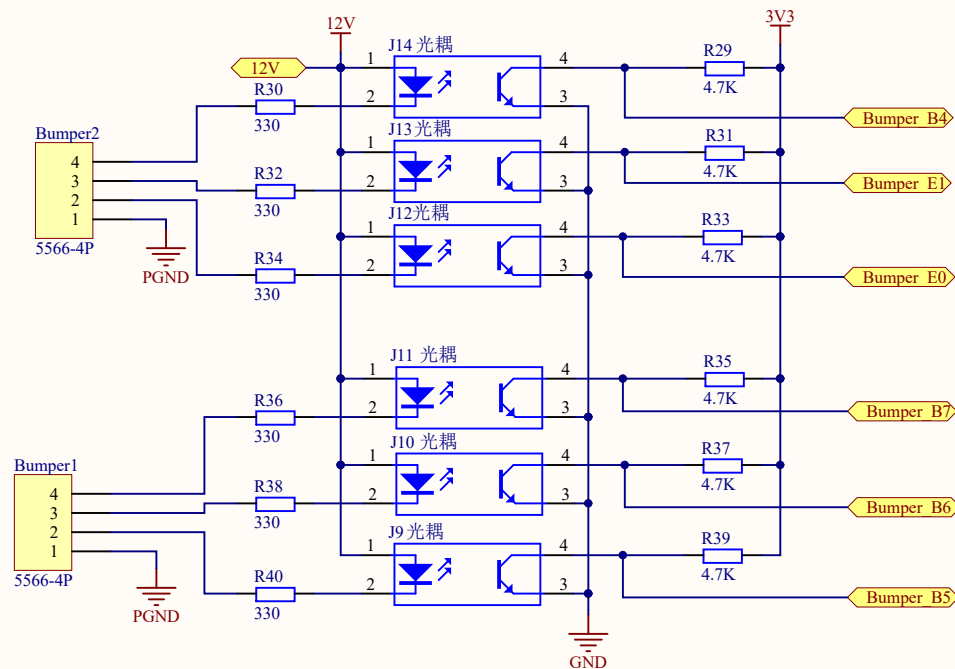
Title		Power_module			
Description		Supply 12V , 5V, 3.3V			
Size	A4	Data	2018/10/8	Author	Wang Peirong
Sheet	3 of 6	Revision	V1.1	CheckedBy	*

Encoder

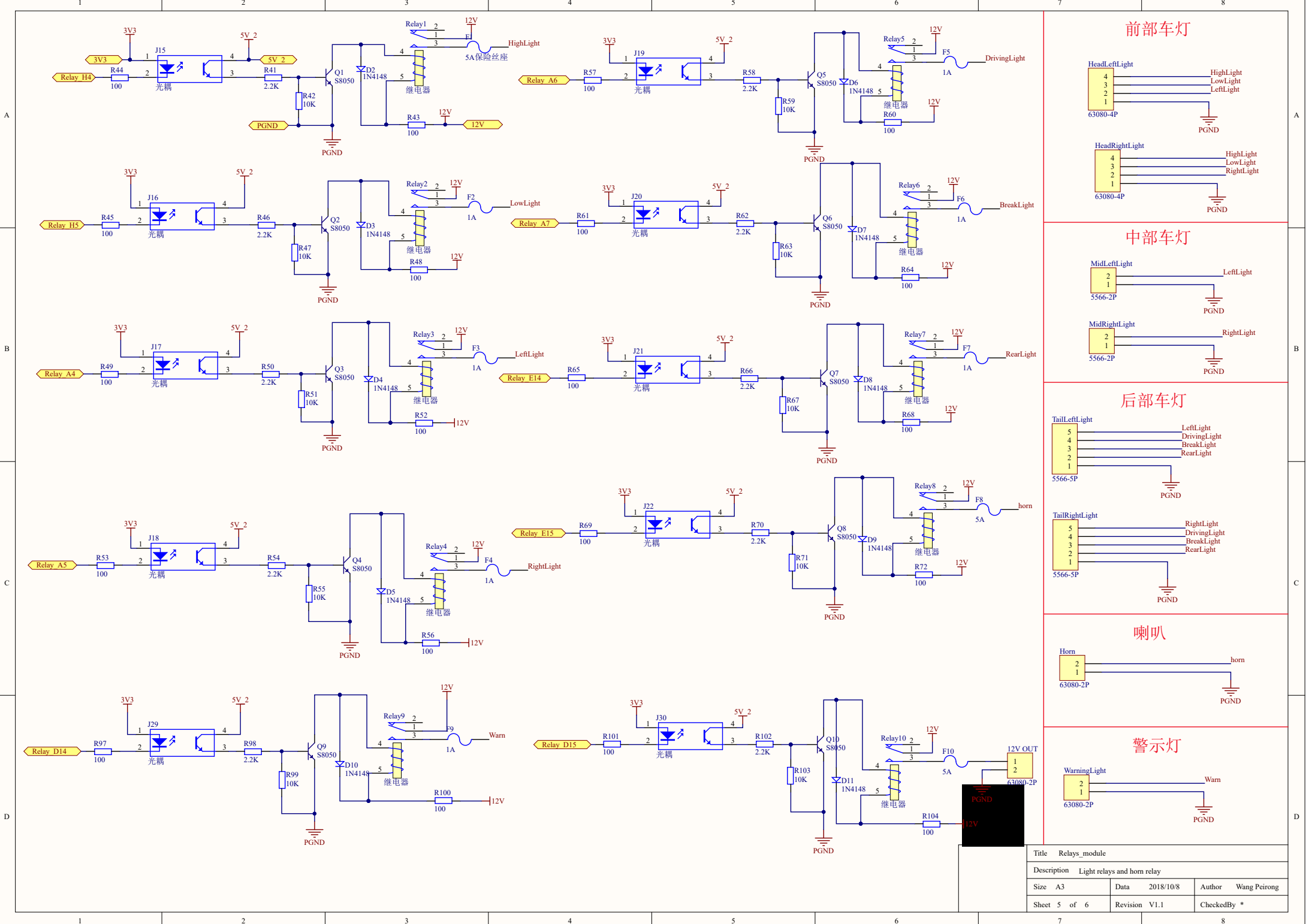


编码器上拉电阻

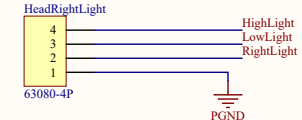
Bumper



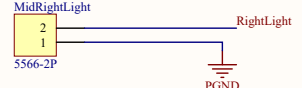
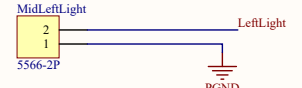
Title Sensor_module				
Description Encoder interface and bumper interface				
Size	A4	Data	2018/10/8	Author Wang Peirong
Sheet	4 of 6	Revision	V1.1	CheckedBy *



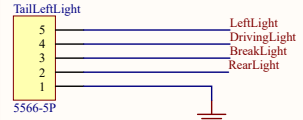
前部车灯



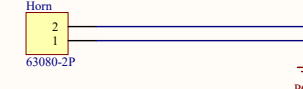
中部车灯



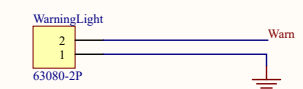
后部车灯



喇叭

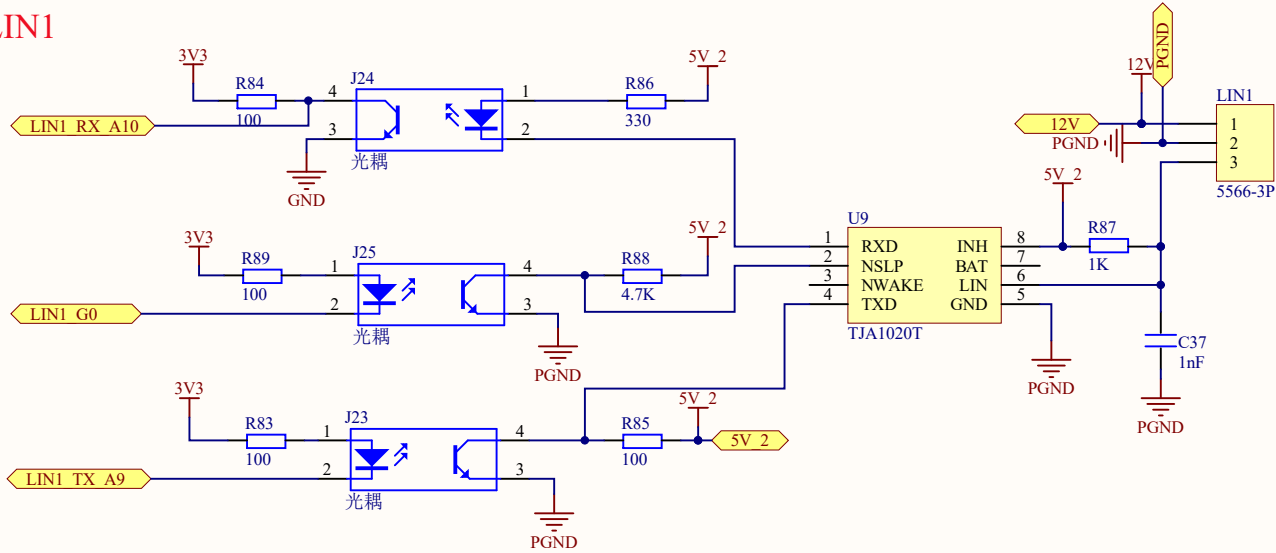


警示灯

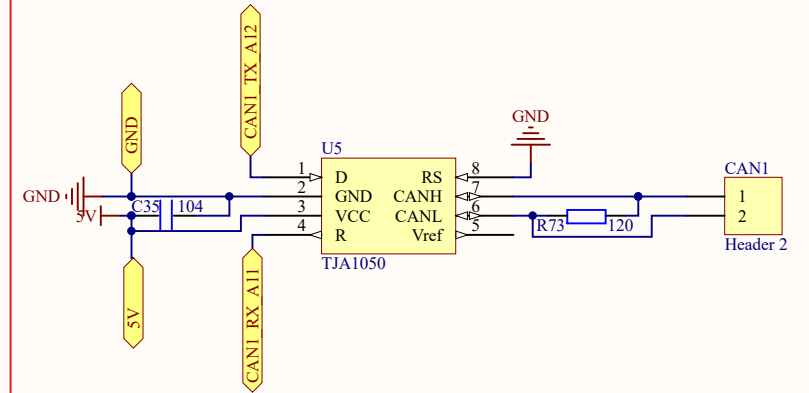


Title Relays_module			
Description Light relays and horn relay			
Size A3	Data 2018/10/8	Author Wang Peirong	
Sheet 5 of 6	Revision V1.1	CheckedBy *	

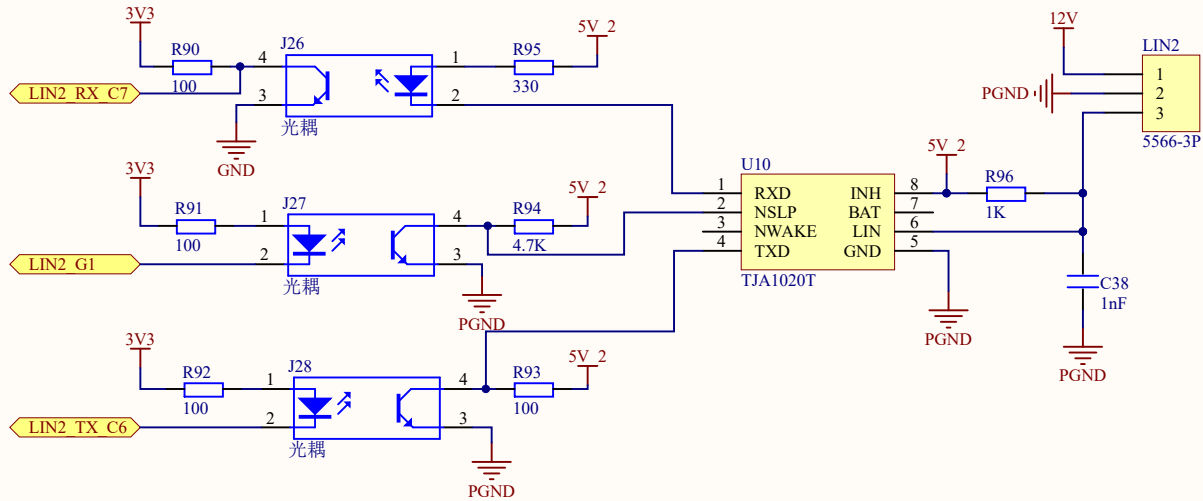
LIN1



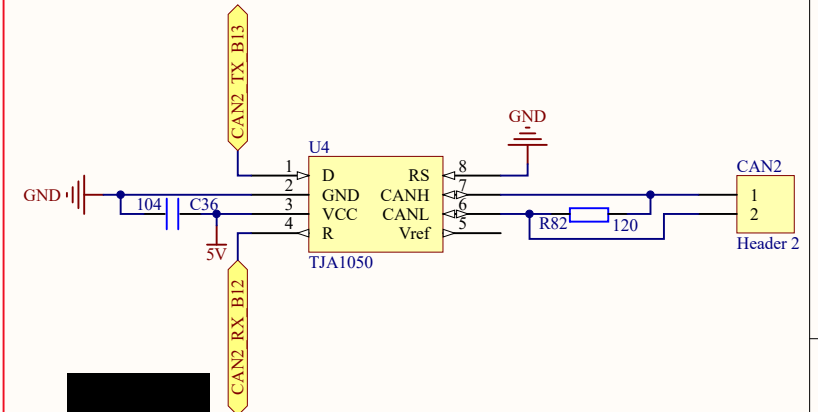
CAN1



LIN2



CAN2

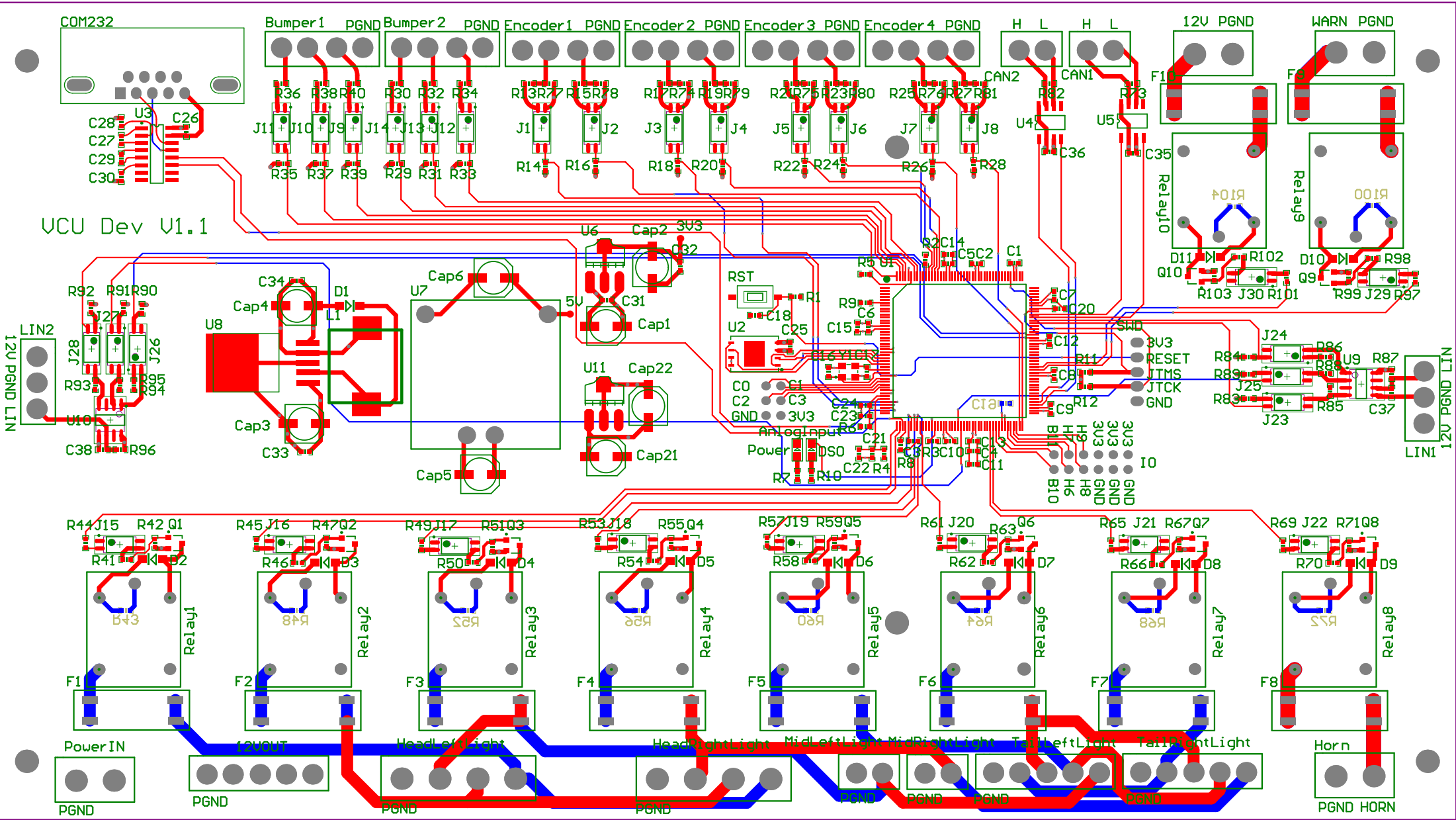


这里是作为主机使用。

作为主机时，需要焊接R87电阻，C37电容为1nF

作为从机时，不需要焊接R87电阻，C37电容为220pf

Title communicate_module			
Description Can and Lin			
Size A4	Data	2018/10/8	Author Wang Peirong
Sheet 6 of 6	Revision	V1.1	CheckedBy *



Comment	Description	Designator	Footprint	LibRef	Quantity
TEST POINT	测试点	3V3, 5V	TP-1.5	TEST-POINT	2
63080-2P	Header, 2-Pin	12V OUT, Horn, PowerIN, WarningLight	63038-2P	Header 2	4
5566-5P	Header, 5-Pin	12VOUT, TailLeftLight, TailRightLight	5566-5P	Header 5	3
排针Header 3X2	Header, 3-Pin, Dual row	AnalogInput	F-HEADER-2*3-2.54MM	Header 3X2	1
5566-4P	Header, 4-Pin	Bumper1, Bumper2, Encoder1, Encoder2, Encoder3, Encoder4	5566-4P	Header 4	6
104		C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C12, C13, C14, C15, C18, C21, C23, C25, C26, C27, C28, C29, C30, C31, C32, C33, C34, C35, C36	0603P	C	30
22		C16, C17	0603P	C	2
225		C19, C20, C24	0603P	C	3
10uf		C22	0603P	C	1
1nF		C37, C38	0603P	C	2
Header 2	Header, 2-Pin	CAN1, CAN2	5566-2P	Header 2	2
100uF		Cap1, Cap2, Cap3, Cap4, Cap5, Cap6, Cap21, Cap22	CC6.56.5	CAP	8
DB9(母头)		COM232	DB9	DB9	1
SS14		D1	DIODE_SOP	D	1
1N4148		D2, D3, D4, D5, D6, D7, D8, D9, D10, D11	DIODE_SOP	D	10
LED绿色	Typical RED, GREEN, YELLOW, AMBER GaAs LED	DS0	SMDLED	LED2	1
5A		F1	汽车保险丝座子	保险丝	1
5A保险丝座		F2, F3, F4, F5, F6, F7, F8, F9, F10	汽车保险丝座子	保险丝	9
63080-4P	Header, 4-Pin	HeadLeftLight, HeadRightLight	63080-4P	Header 4	2
排针Header 6X2	Header, 6-Pin, Dual row	IO	F-HEADER-2*6-2.54MM	Header 6X2	1
光耦		J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, J11, J12, J13, J14, J15, J16, J17, J18, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, J29, J30	SOP127P710X350-4N	光耦	30
6电感	Adjustable Inductor	L1	电感-10*10	6电感	1
5566-3P	Header, 3-Pin	LIN1, LIN2	5566-3P	Header 3	2
5566-2P	Header, 2-Pin	MidLeftLight, MidRightLight	5566-2P	Header 2	2
LED红色	Typical RED, GREEN, YELLOW, AMBER GaAs LED	Power	SMDLED	LED2	1
S8050	8050/BCW846/BCW847	Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10	SOT-23R	NPN	10
10K		R1, R8, R11, R12, R42, R47, R51, R55, R59, R63, R67, R71, R99, R103	0603P	R	14
100K		R2, R3	0603P	R	2
10R		R4	0603P	R	1
0R		R5, R9	0603P	R	2
1M		R6	0603P	R	1
510		R7, R10	0603P	R	2
750		R13, R15, R17, R19, R21, R23, R25, R27	0603P	R	8
1K		R14, R16, R18, R20, R22, R24, R26, R28, R37, R96	0603P	R	10
4.7K		R29, R31, R33, R35, R37, R39, R74, R75, R76, R77, R78, R79, R80, R81, R88, R94	0603P	R	16
330		R30, R32, R34, R36, R38, R40, R86, R95	0603P	R	8
2.2K		R41, R46, R50, R54, R58, R62, R66, R70, R98, R102	0603P	R	10
100		R43, R44, R45, R48, R49, R52, R53, R56, R57, R60, R61, R64, R65, R68, R69, R72, R83, R84, R85, R89, R90, R91, R92, R93, R97, R100, R101, R104	0603P	R	28
120		R73, R82	0603P	R	2
继电器		Relay1, Relay2, Relay3, Relay4, Relay5, Relay6, Relay7, Relay8, Relay9, Relay10	SRD-12VDC	继电器	10
KEY_M		RST	KEY_SOP3625	KEY_M	1
XH2.54接插件-5P	Header, 5-Pin	SWD	F-HEADER-5-2.54MM	Header 5	1
STM32F429IGT6	STM32F429IGT6	U1	LQFP176	STM32F429IGT6	1
W25Q256	W25Q128	U2	WSON8	W25Q128	1
SP3232		U3	SOP16M	MAX3232	1
TJA1050		U4, U5	SOP-8	SN65HVD230D	2
AMS1117-3.3		U6, U11	AMS1117	AMS1117	2
12V转5V隔离电源		U7	WRB1205MH	12V转5V隔离电源	1
稳压LM2596		U8	TO-263-5	稳压LM2596	1
TJA1020T		U9, U10	NSO8_N	TJA1020T	2
25Mhz	3225贴片无源晶振	Y1	XTAL3225	XTAL_3225	1