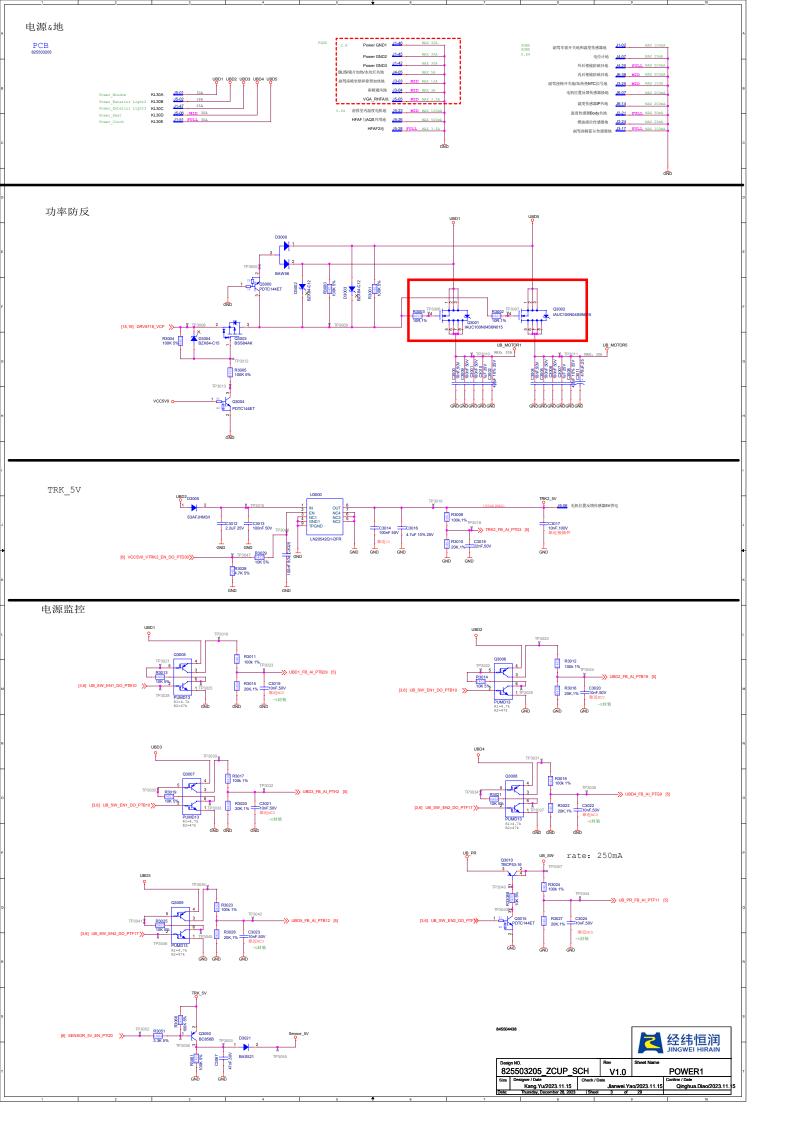
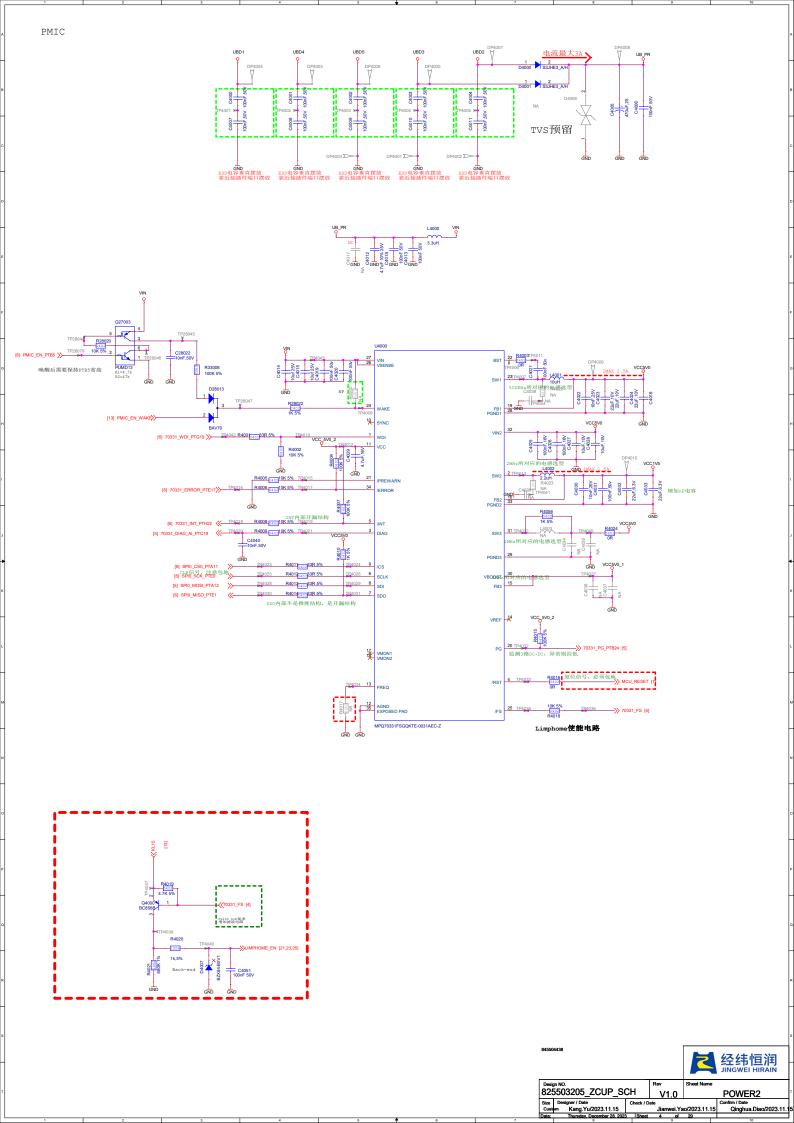
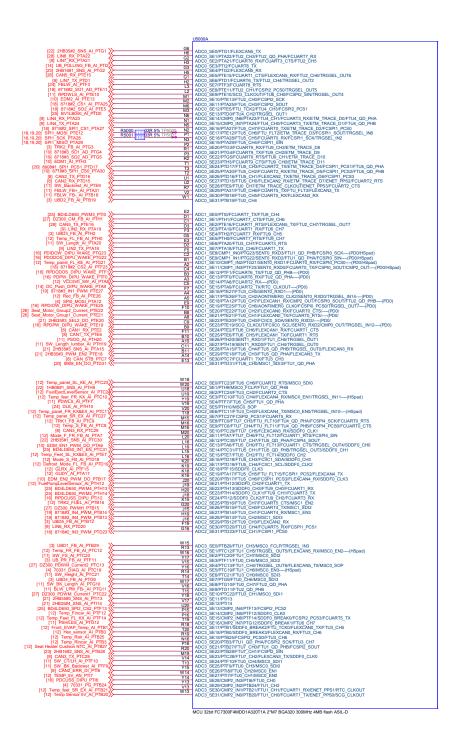
PCB Layout Information				ļ	
. 项目名称:	吉利ZCU_R技术研发项目				
项目编号:	AP238018	项目经理:	王雅琨 张红玲		
LAYOUT工程师:	董慧	应用工程师:	余康/冯文基/李森		
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	xxxxxxxxxxxxxxx	XXXXXXXXXXXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	
输入信息: Input Information:					
输入时间: Input Time:	2023-11-27	PCB ERP Number:	825503205		
原理图名称: Shematics Name :	825503205_ZCU_SCH.DSN		版本: Version:	V1.1A	
DXF文件名称: DXF File Name:	825503205_ZCU_PCB限位图.dxf		DXF状态: DXF State:	已确认	
PCB层数: PCB Layer Number:	6 Layers	PCB基材: PCB Base Material:	FR4		
表面处理: Surface Handing:	HASL	板厚: Thickness:	1.6mm+/-0.14		
外层铜厚: Finished Copper Thickness:	50um	1和2层间距: Layer1 to Layer2:	0.16mm		
2和3层间距: Layer2 to Layer3:	0.5mm	3和4层间距: Layer3 to Layer4:	0.24mm		
英他要求: Other :	-				
*************************************	<i>xxxxxxxxxxxx</i>	<i>xxxxxxxxxxx</i>	XXXXXXXXXX		
Output Information:					
LAYOUT文件名称: LAYOUT File Name:	82XXXXXXX_BBB_Layout.brd		版本: Version:	V1.1	
DXF文件名称: DXF File Name:	82XXXXXXX_BBB_PCB2D.dxf				
emp/emn文件名称: emp/emn File Name:	82XXXXXXX_BBB_PCB3D.emn/er	np 注意:	导出三维信息的 第应为英文字符,	t, 输入和输出文件 否则不能正确生成。	
• Gerber文件名称: Gerber File Name:	TOP.art Soldermask_Top.  GND.art Soldermask_Bot.  PWR.art Silkscreen_Top.  BOT.art Silkscreen_Bot.  Assembly_Top.ar  Assembly_Bot.ar	<pre>art Drill_Dimention.pdf art art t</pre>			
Drill文件名称: Drill File Name:	Ger_Con_Drill.drl				
Route文件名称: Route File Name:	Ger_Con_Route.rou 注意:如果PCB上有异形孔,请生成ROUTE文件。				
其他输出: M Other :	-				
xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	xxxxxxxxxxxxxxxxx	×××××××××××××××××××××××××××××××××××××××	XXXXXXXXX	XXXXXXXXXXXXX	
Need to Attention !:					
敏感信号线: Sensitive Signal Line:	xxxxxxxxxxxxxxxx	0			
易干扰信号线: Interference Signal Line:	xxxxxxxxxxxxxxxxx	0			
● 射频信号线: RF Signal Line:	xxxxxxxxxxxxxxxxx				
等长信号线: Same Delay Signal Line:	xxxxxxxxxxxxxxxxxxx	0			
差分对: Differetial Signal Line:	xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	0		1	
大电流: High Current:	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	0			
o 其他: Other :				,	
其他: Other:	××××××××××××××××××××××××××××××××××××××	××××××××××××××××××××××××××××××××××××××	· · · · · · · · · · · · · · · · · · ·	***	
		······································	××××××××××××××××××××××××××××××××××××××		
3		845504438		经纬恒润 JINGWEI HIRAIN	
其他详见原理图内部信息。 如有未尽事宜,请和应用工	程师沟通。	Design NO.  825503205_ZCUP_S  Size   Designer / Date		eet Name INFORMATION   Confirm / Date	
1 2	3 4 5	Size   Designer / Date   Kang, Yu/2023.11.15     Date   Thursday, December 28, 2023   ↑ 6   7	Jianwei.Yao/20   Sheet 1 of 2	)23.11.15 Qinghua.Diao/2023.11.15	

Debug Information						
位号	网络名称	描述				
DP4000	UBD3	Power_Exterior Light3				
DP4001	GND	GND				
DP4002	GND	GND				
DP4003	GND	GND				
DP4004	UBD1	Power_Window				
DP4005	UBD4	Power_Seat				
DP4006	UBD5	Power_Cinch				
DP4007	UBD2	Power_Exterior Light2				
DP4008	UB-PR	12V Logic Power				
DP4009	VCC5V0	5V Logic Power				
DP4010	VCC1V5	1.5V Logic Power				
н		H				
1		1				
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P		P				
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R		I.R.I				
	845504438					
s	оноомчоо	经纬恒润 JINGWEI HIRAIN				
	Design NO. Rev Sheet Name					
т	Size Designer Ka	/ Date   Check / Date   Check / Date   Confirm / Date   C				
	Date: Thur	sday, December 28, 2023   Sheet 2 of 29				







```
815
| FTANFTIM CHOFLEXCANS RXXSENTI RX02FTUZ OD PHAFCUARTO CTS/TRGSE_OUTS
| TANFTIM CHISENTI RX03FTU OD PHAFCUARTO TTS/TRGSE_OUTO
| TANFTIM CHISENTI RX03FTU OD PHAFCUARTO TTS/TRGSE_OUTO
| TANFTIM CHISENT CHISENTI OD PHAFCUARTO TYPE OD PROPO
| TANFTIM CHISENT CHISENTI OD PROPO
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                                                                                         [22] 2HB35#2_SEL2_DO_PTC6
[27] DZ300_PWM4-5_PTC25
[21] 2HB35#4_SEL2_DO_PTC26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TICZBETUS_CHIPTE/ECNAR_IX

POZOTOTOTO CHIPTE/ECNAR_IX

POZOTOTOTO CHIPTE/ENCAR_IX

POZOTOTOTO CHIPTE/ENCAR_IX

POZOTOTO CHIPTE/ENCAR_IX

POZOTOTO

POZOTOTO

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POZOTO

P
            [2] VICSSN SW EN DO PT02

[19] 87183 N2 PM PT03

[18] 87182 N2 PM PT03

[18] 18182 N2 PW MP PT04

[19] LING TV, PT02

[19] LING TV, PT02

[19] LING TV, PT02

[19] CANS ERR DI, PT02

[21] 281534 PW EN PT03

[22] 281534 PW EN PT03

[3] VICSSN_VIRSS EN PT03

[4] PT03

[5] VICSSN_VIRSS EN PT03

[6] VICSSN_VIRSS EN PT03

[6] VICSSN_VIRSS EN PT03

[7] VICSSN_VIRSS EN PT03

[7] VICSSN_VIRSS EN PT03

[8] VICSSN_VIRSS EN PT03

[8] VICSSN_VIRSS EN PT03

[9] VICSSN_V
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PTDOOFTUL CHT/FLEXCAS_TXSENTI_RXX9FTLZ_CO_PREMISCI_SDI1

OSCUZE_KTAUPTESTIFLU_CHGPTU_FLTFUT_UCXOTROSEL_ING—(InputOnly)

SOCIZEX_XTAL/PTESHPU_CHGPTU_FLTFUT_UCXOTROSEL_ING—(InputOnly)

CHIPI_NAMPERFUT_UCXTROSETU_FLTTO—(InputOnly)

CHIPI_NAMPERFUT_UCXTROSETU_FLTTO—(INPUTONLY)

CHIPI_NAMPERFUT_UCXTROSETU_FLTTO—(INPUT_IXT)

THITTITITUS_CHTPC_SUNT_UCXT_IXT

CHIPI_NAMPEZSFTLO_CHGFLEXCANT_TXXCSPI_CUTFCSPI_CPSS—(PD0)

CHIPI_NAMPEZSFTLO_CHGFLEXCANT_TXXCSPI_CUTFCSPI_CPSS—(PD0)
                                                                            VCCSV0_VTRK2_EN_DO_PTD30

(19) 8718873 NFAULT_DI_PTE14

18) 8718872 NFAULT_DI_PTE14

14) SPIO_MSO_PTE1

14) SPIO_MSO_PTE1

128) LINB_TX_PTE4

14) 70331 ERROR_PTE17

[24) FBLW_PWM3_OUT_PTE23

[22] 2HB35882_DO_EN2_PTE24
                                                  [22] 2485582 DO ENZ-PTE24 (14) FROC CLP DIPUT PT2 (15) F1 18/2 NISLEEP DO PTF4 (14) UB POLIUNG EN DO PTF5 (22) 2485581 F9VM ENT PTF6 (22) 2485581 F9VM ENT PTF6 (23) FROM ENT PTF6 (24) FROM ENT PTF6 (24) FROM ENT PTF6 (25) F1 18/2 CM ENT PTF6 (27) F1 28/2 CM ENT PTF6 (27)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             F16
H1 PTF2/FCUART6_RTS/FTU8_CH0/FCUART8_RX
PTF4/FCUART8_CTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPO INSPIRABLE CHROCOSTIC, CHO COMPO INSPIRABLE CASTELLA CHIFCULARIE [X TOTALS CONTINUE ] X TOTALS CONTINUE AND A CONTINUE A
                                                  [13] RIDIBD_DIPD_PTG0
[18] CAM_TX_PTG13
[18] CAM_TX_PTG14
[14] RPDDHPS1_DIPU_PTG15
[14] RPDDHPS2_DIPU_PTG15
[23] 2HBf8ff_SE2_D0_PTG17
mateONOFF Switch_DIPU_PTG18
[18] 8718ff2_INT_PWM_PTG20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PHOSTICION CONTROL PROPRIESTO DE COMPO, NO PRIZETUL CHEFCUNTAT DE COMPO.
                                                               [16] RPDOW_DIPU_PTI1
[21] 2HBSS#S SEL2_DO_PTI3
[14] RPDLS FB DIPU_PTI4
[14] PPLS FB DIPU_PTI5
[21] 2HBSS#S_DO_ENI_PTI9
[9] LINS_TX_PTI10
[9] LINS_TX_PTI11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WILL
PRESETTE CHIFFCUARTS RIVENET MOIOTROSEL INI—(VOD. HV. B)
PRESETTE CHIPFCUCIC SDARNET MOCTROSEL INO—(VOD. HV. B)
PRESETTE CHIPFCUCIC SDARNET MOCTROSEL INO—(VOD. HV. BUHSpad)
WIT PRESETTE CHIPSCHE CHIPSCHE PROSETTE RIVENET RIVENET PRESETTE (PRESETTE CHIPSCHE PROSETTE RIVENET PRESETTE CHIPSCHE CHIPSCHE STATE CHIPSCHE CHIPSC
                                                  [17] HALL BHS_PWMI PTB4
[4] PMMC_EN_PTB5
[4] PMC_EN_PTB5
[22] UB_OL_EN_DO_PTB23
[22] 249536F PWM EN_PTB28
[22] 249536F PWM EN_PTB28
[21] 249536F PWM EN_PTB28
[22] 249536F PWM EN_PTB28
[22] 249536F PWM EN_PTB28
[23] 249526 PWM EN_PTB28
[23] 249526 PWM EN_PTB28
[24] 249526 PWM EN_PTB28
[25] 249526
                                                         | TREATER | SPACE | SCALE | SPACE | SPACE | SCALE | SPACE | SP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W TIGST IV. CHARLASY, SINCHE, INCUE—IV.D. W, BIRSBAD 

PROSETURE CHAPCLARY, CESTERM TRACE, DELEVET TOUSFCSPB, SINTROSEL, INF—(VOD HV BUHSBAD) 

PROSECULARIZ, RAFE, BECAMB, RIZETM, TRACE, DIENET, TOUSFCSPB, SCK—(VOD HV, BUHSBAD) 

PROSECULARIZ, TAPLEXAMB, TIZETM, TRACE DIENET, TOUSFCSPB, SCK—(VOD HV, BUHSBAD) 

PROSECULARIZ, TAPLEXAMB, TIZETM, TIZETM, TIZETM, TOUSFT, TOUSFCB, SCK—(VOD HV, BUHSBAD) 

PROSECULARIZ, TOUSFCB, T
| 25| BV1LB040 EN PTD5 |
|15| AutObefrostSwitch_DIFU_PTD6 |
|20| 890882 NFAULT_DI PTD7 |
|17| HALL_LHS_PWM_PTD8 |
|20| 8908872 SPZ_CS I_PTD9 |
|22| 1HB0881 PWM_EN_PTD102 |
|23| 2HB16811_PWM_EN_PTD112 |
|23| 2HB16811_PWM_EN_PTD112 |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                T6 PTENFTU6_CH1/FCUART9_RX/ENET_MDC/FCSPI3_SCK---(VDD_HV_B)
                                            [21] 2HB35#4_PWM_EN1_PTE8 <<
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             W3 PTF8/FCSPI3_SIN/FTU_FLT5/TRGSEL_OUT4---(VDD_HV_B)
                                                                                                            [28] SPI3_MISO_PTF8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Y3
R8
PTG6/FCSPI3_SOUT/TRGSEL_OUT3---(VDD_HV_B)
PTG7/FCSPI3_PCS0/TRGSEL_OUT2---(VDD_HV_B)
PTG8/FTU8_CH0/FCUART3_TX/ENET_REF_CLK---(VDD_HV_B/HSpad)
                                                                                         [28] SPI3_MOSI_PTG6
[28] DZ300_SPI3_CS_PTG7
[13] RLDITD_DIPD_PTG8
                                                                                                                  [13] RRDITD_DIPD_PTH6 

[13] RRDIBD_DIPD_PTH7 

[17] AQS_PWM_SW_PTH8 

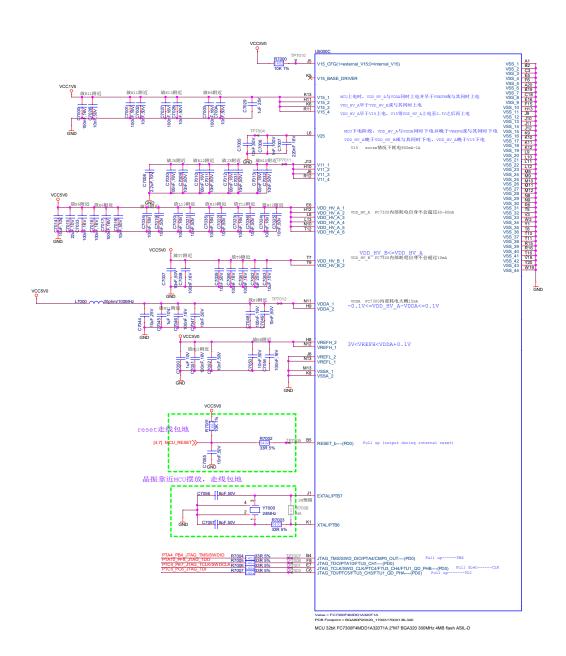
[28] SPI3_SCK_PTH21 

[4] 70331_INT_PTH22
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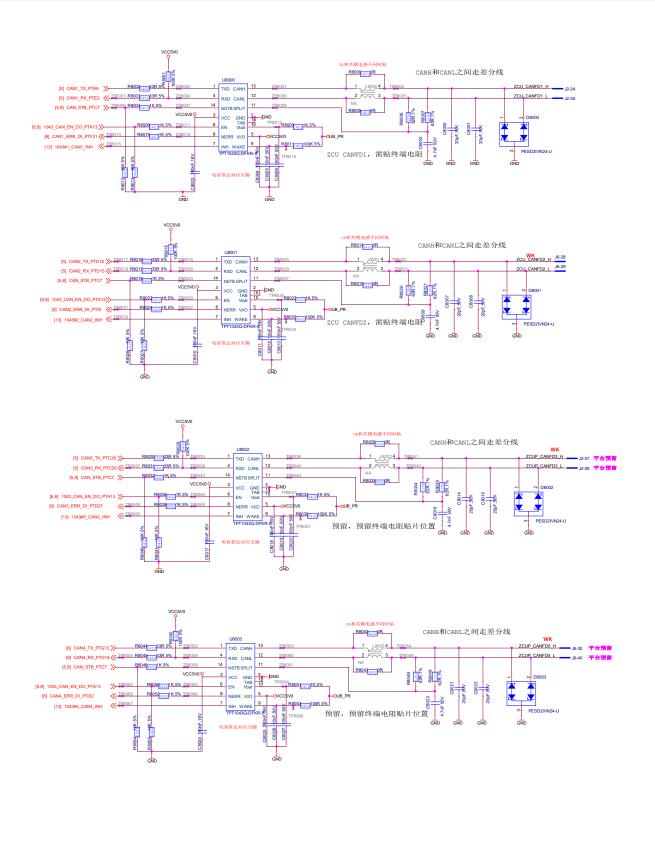
MCU 32bit FC7300F4MDD1A320T1A 2\*M7 BGA320 300MHz 4MB flash ASIL-D

经纬恒润 JINGWEI HIRAIN Sheet Name

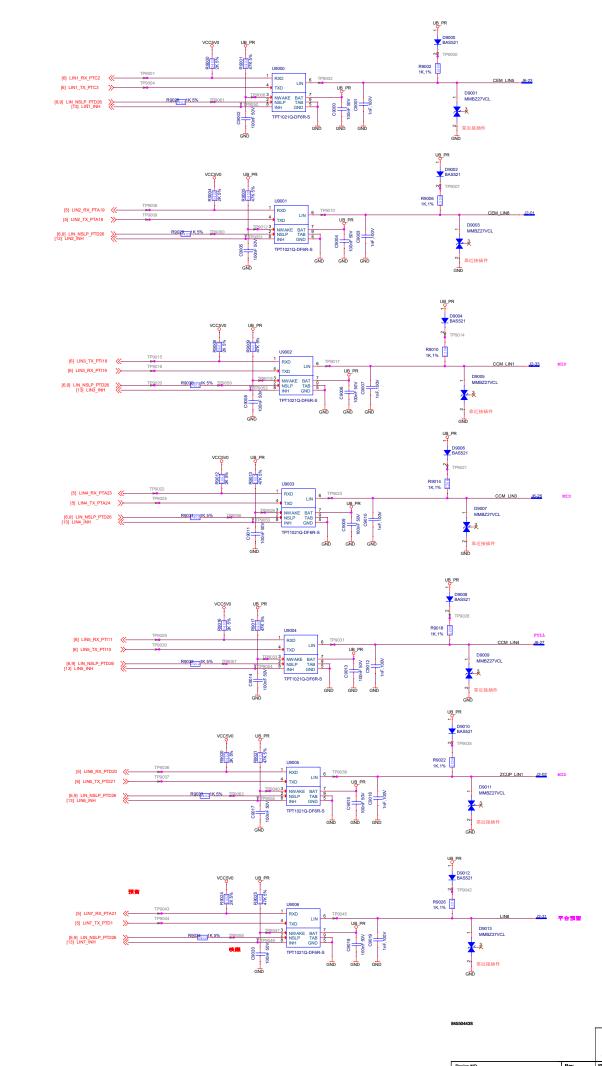


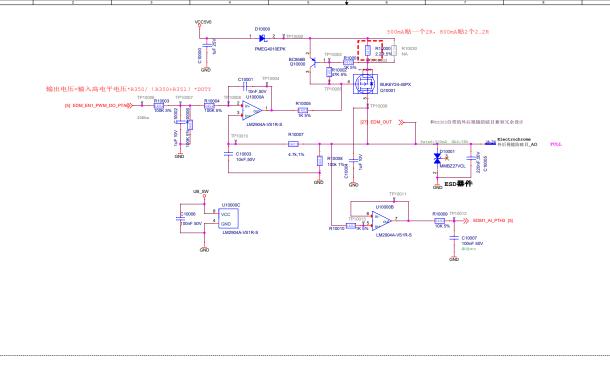


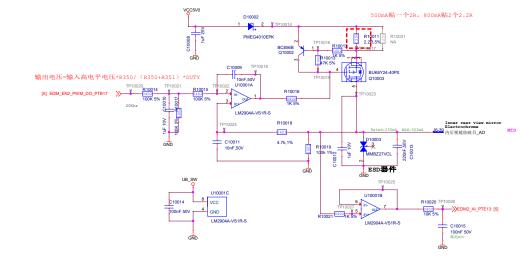




| Design NO. | Store | No. | Sheet Name | Store | No. | Sheet Name | Store | No. | Sheet Name | No. | Sheet



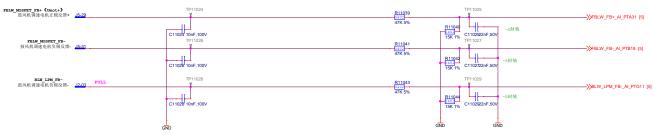




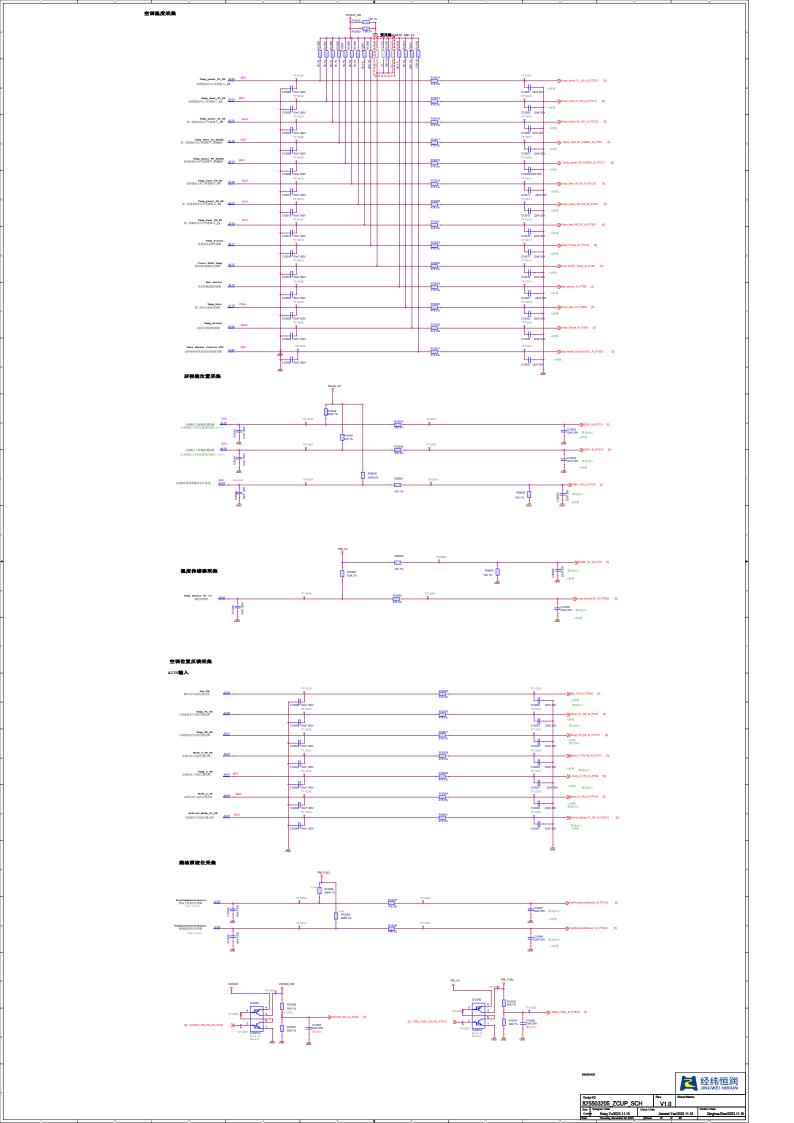


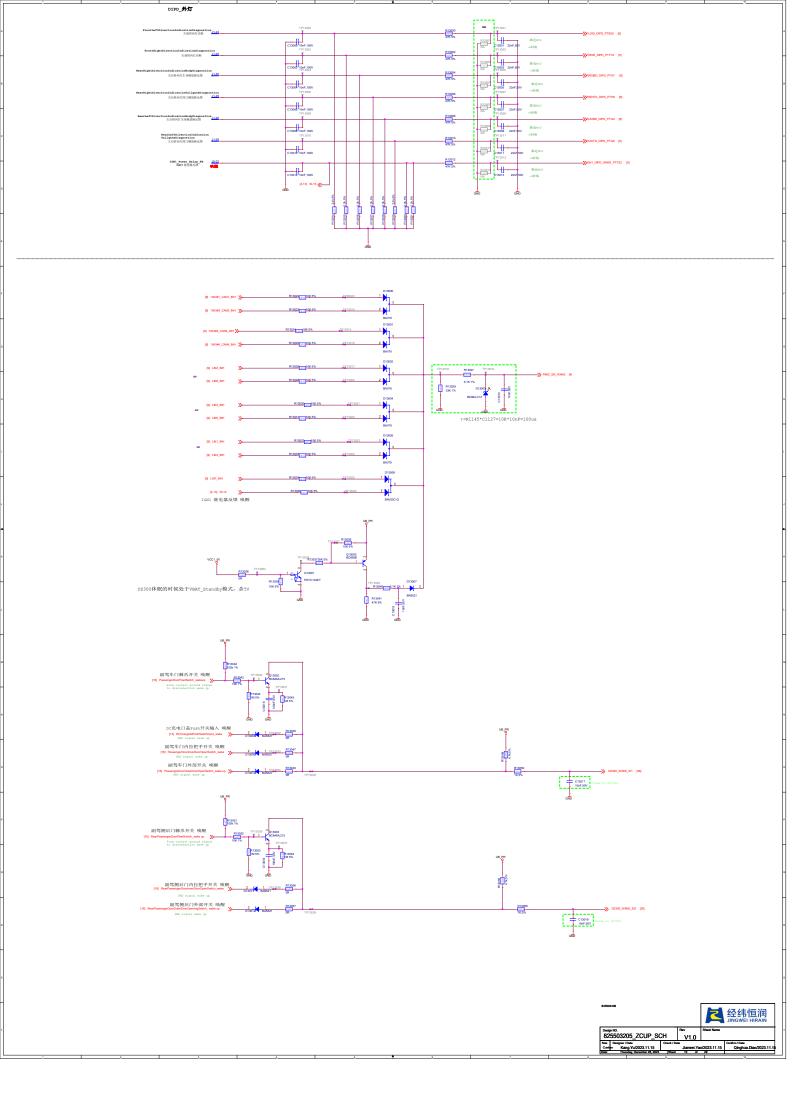
AI12V rDoorWindowLocalSwitch 副驾车窗本地开关 <u>J4-10</u> 开关:1.8%/768Ω/160Ω/0Ω R11015 0402 47K 5% C11000 10nF,100V C11002 10nF,100V TP11004 SW Backrest 副驾座椅靠背倾角调节开关 <u>J3-18</u> 211004 10nF,100V 15K 1% TP11007

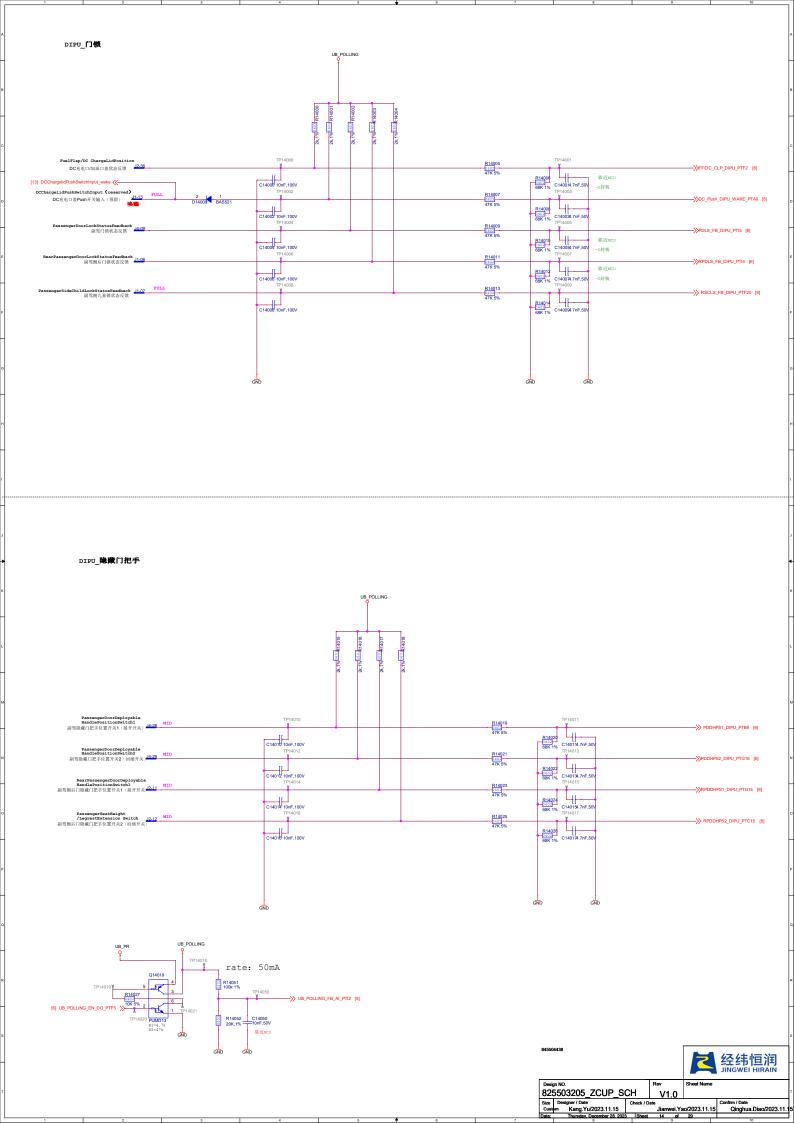
B1102
C11007 22nF,80V - 总种版
TP11007
TP11007
TP11011
TP11011
TP11011 C11006 10nF,100V C11008 10nF,100V C11010 10nF,100V R11027 0402 47K 5% C11012 10nF,100V SW\_Boss\_Key\_Backrest (reserved) 老板键靠背倾角调节开关 (预留) <u>13-23</u> R1103 15K 1% C11015 22mF,50V - s射號 P11037 - s射號 C11017 22mF,50V C11014 10nF,100V TP11016 C11016 10nF,100V TP11018
C11018 10nF,100V R1103 0403 15K 1% C11019 22nF,50V TP11021 SW Length (lumbar/bolster /headrest/cushion ext) (reserved) 副驾顺托内外调节开关(预留) 13-28 C11020 10nF,100V Passenger\_Seat\_Ocuptant\_Detection\_ 副驾占位检测 1-05 ->>PSOD AI PTH20 [5] C11022 10nF,100V









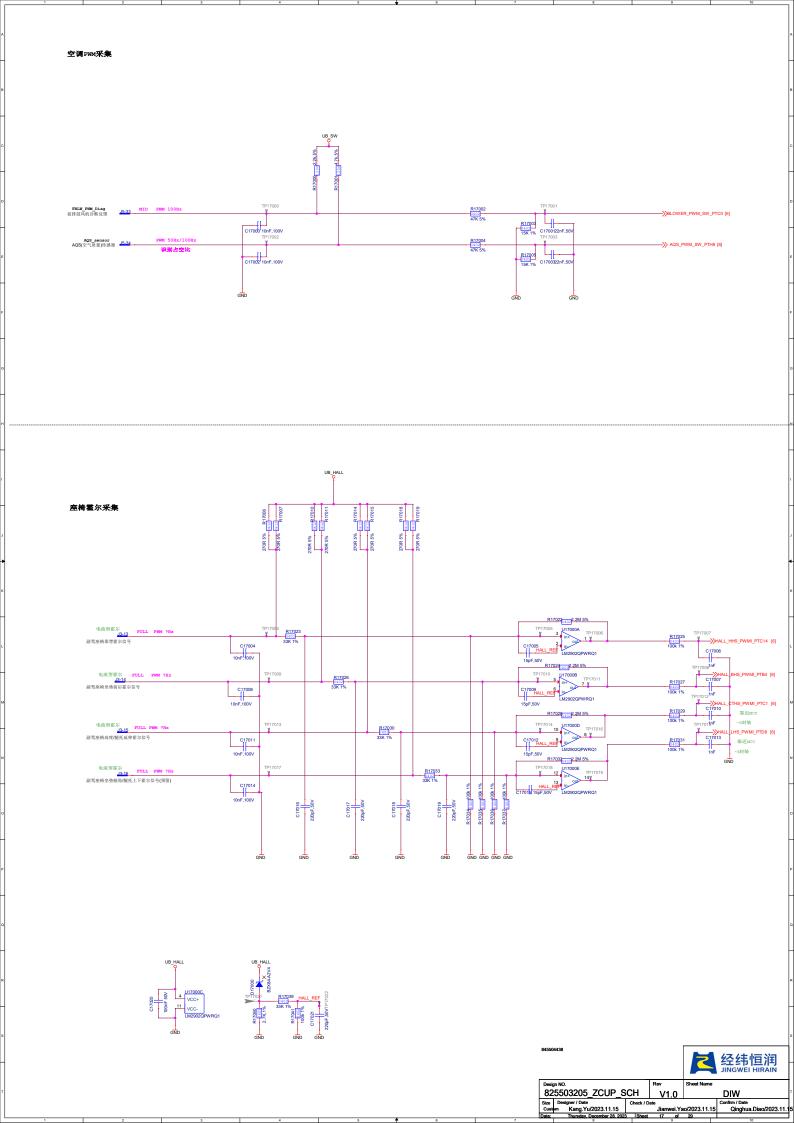


DIPU\_空调 UB\_POLLING R15000 2k,1% R15004 0402 47K 5% ClimateON/OFF Switch 空调ON/OFF按键 J6-16 AutoDefrostSwitch 自动空调按键 16-17 R15008 0402 47K 5% SeatOccptAtRowSecPass 第二排副驾侧座椅占位检测(预留) R15010 0402 47K 5% 68K 1% R15007 68K 1% R15009 68K 1% R15011

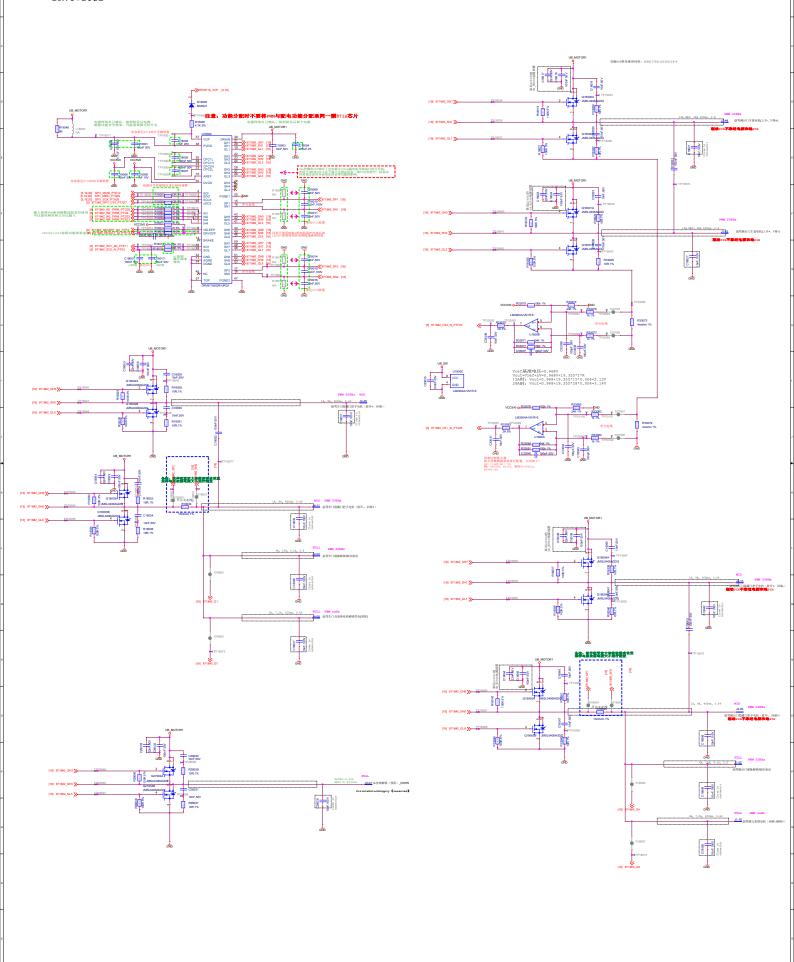
| Design NO. | Sheet Name | Sh

DIPU\_电吸合释放 UB\_POLLING | PassengerDoorInnerDoorOpen Switch (reserved) | 副驾车门内拉把手开关(预留) TP-16001 R16013 GBK 196 TP-160034 7nF,50V - 忠封被 TP-160036 7nF,50V GBK 196 TP-160035 7nF,50V TP-160055 7nF,50V C16000 100nF,50V R16019 1402 68K 1% C160074.7nF,50\ TP16009 orOpenSwitch 副骂门开开关 DoorCrash unlock status switch 副驾车门碰撞解锁状态开关 14-15 -s封裝 68K 1% C16019.7nF.50 TP16013 R16025 68K 1% C16013.7nF.50 TP16015 R16027 C16019.7nF.50 R16031 1402 68K 1% C160194.7nF,50 RearPassengerDoorOpenSwitch 副驾侧后门门开开关 J2-28 TP16021

R1603
010214.7nF,50 ssengerDoorCrash unlock status switch 副驾侧后门碰撞解锁状态开关 12-29 16020 10nF,100V RearPassengerDoorCinch/Ice breaker reset FULL 副驾侧后门吸合/破冰开关



## DRV8718#2

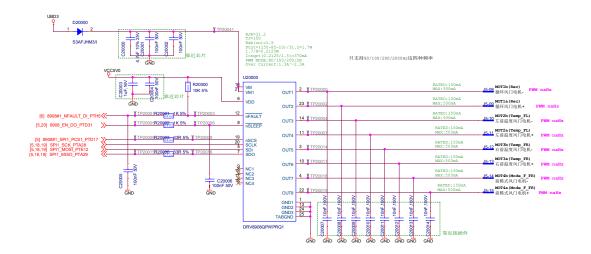


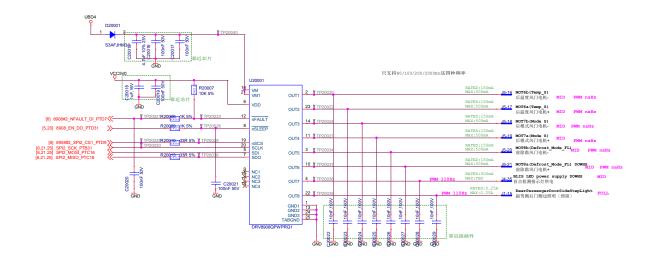
经纬恒润 JINGWEI HIRAIN

| Rev V | Substitute | Substitu

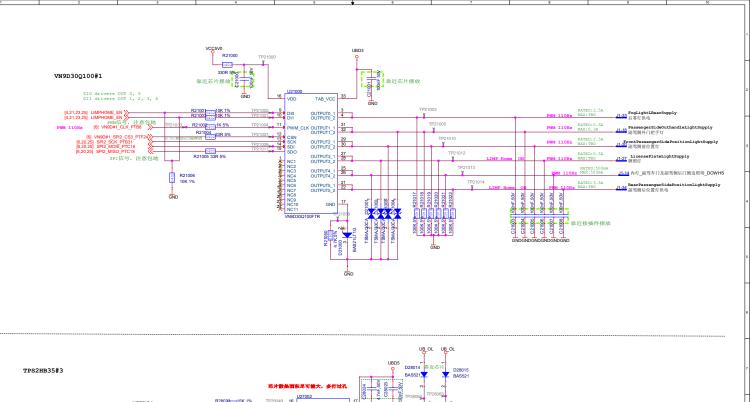
## DRV8718#3 100F.100V C100-T1 C1 0000 TO C1 0000 TO C1 0000 TO C1 000 TO C1

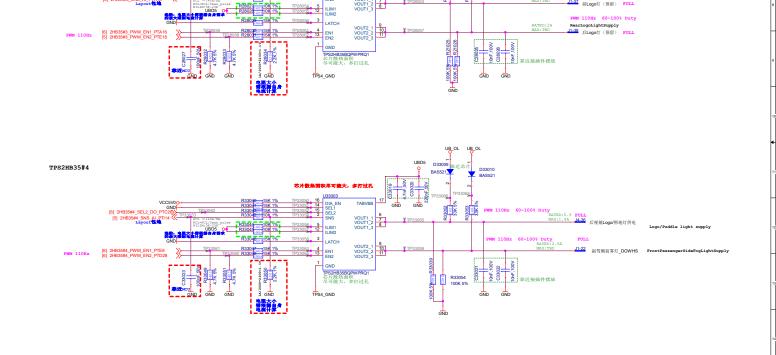
经纬恒润 JINGWEI HIRAIN

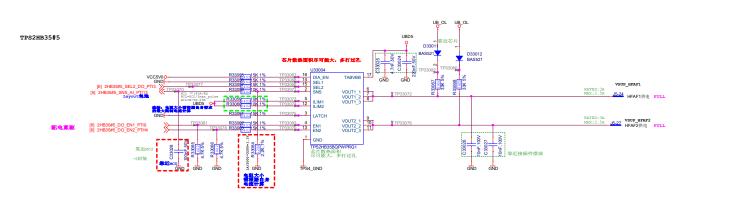




| Design NO. | Substitute | Sheet Name | Sheet Name | Sheet Name | State Name | Sheet Name | Sheet Name | State Name | State Name | Sheet Name | State Name | St

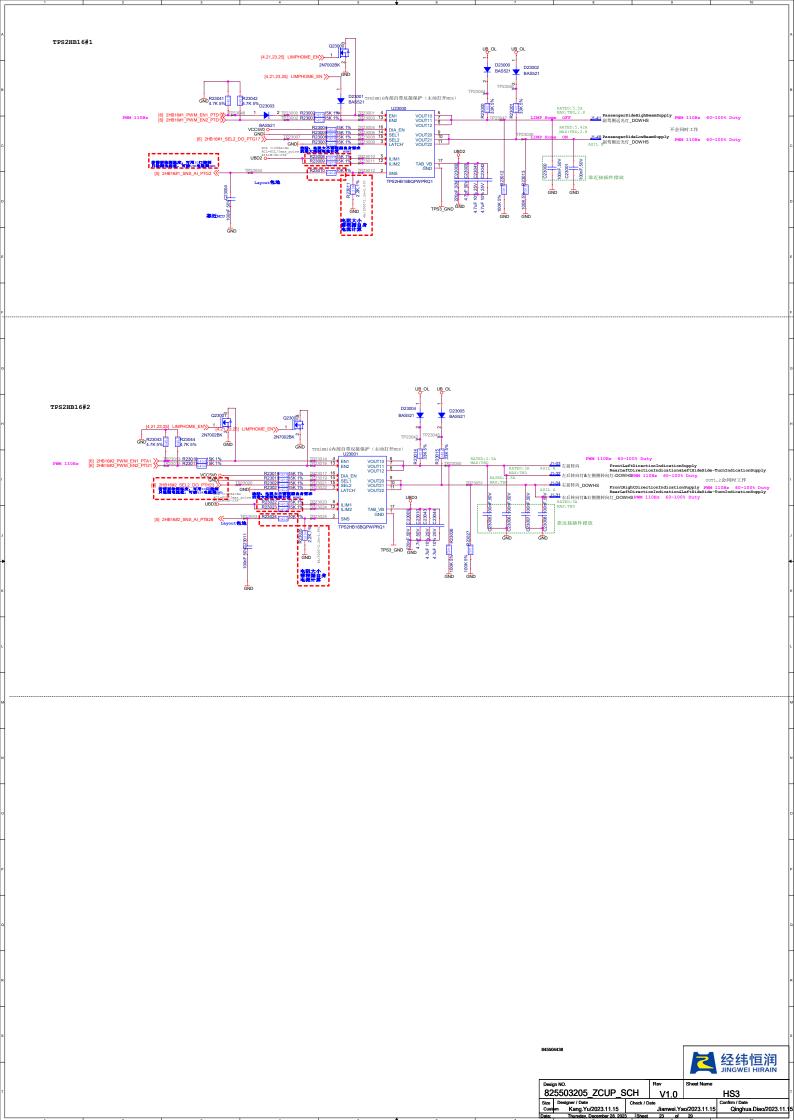


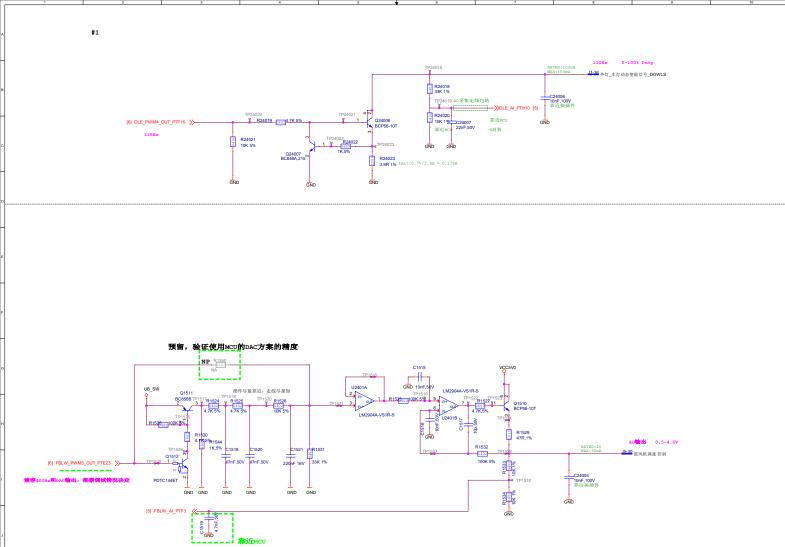


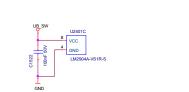


| Design NO. | Steel Name | Sheet Name | HS2 | Confirm / Date | Confirm /

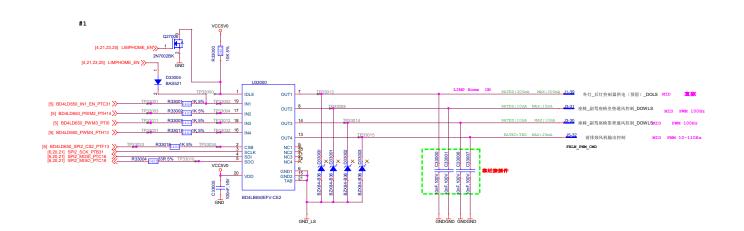
TPS1HB08#1 OUT02 R22002<sub>0402</sub>15K 1% TP22003 3 LATCH OUT03 OUT04 OUT05 10 1 GND TPS2HB35#1 2 PassengerSideDRLSupply 副驾侧日间行车灯\_DOWHS PWM 110Hz TPS2HB35#2 1 GND TPS2HB35BQPWPRQ1 芯片散热面积 尽可能大,多打过孔 经纬恒润 JINGWEI HIRAIN V1.0 Qinghua.Diao/2023.11

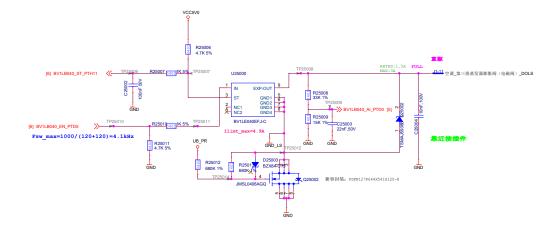




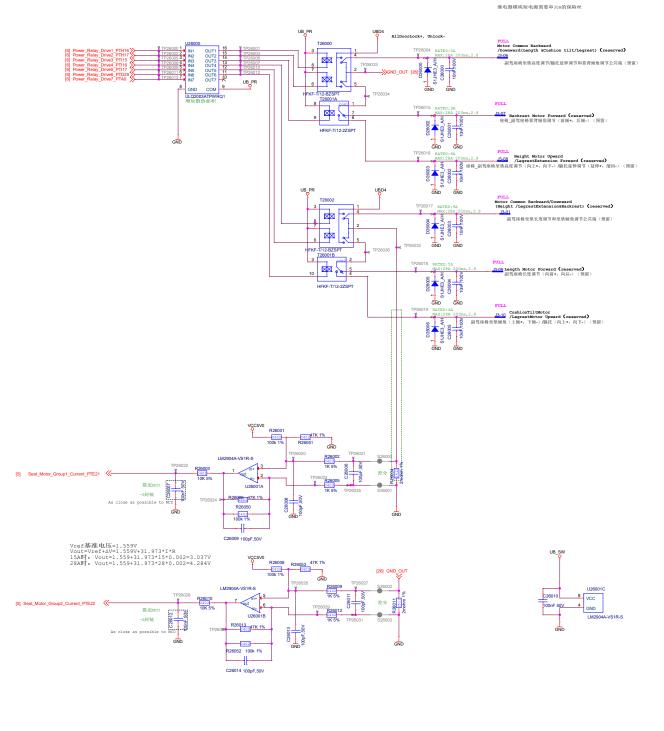




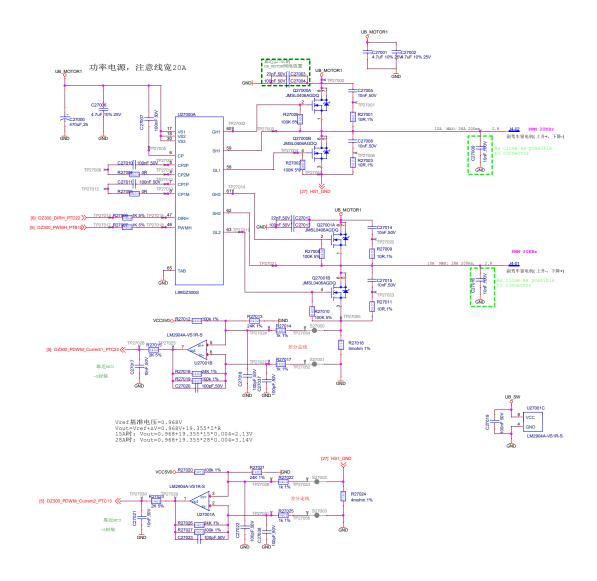


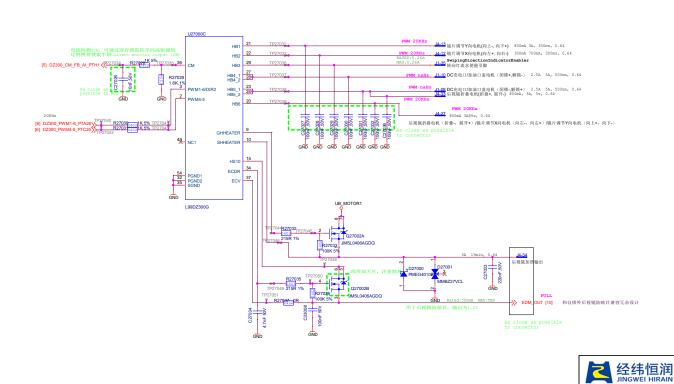






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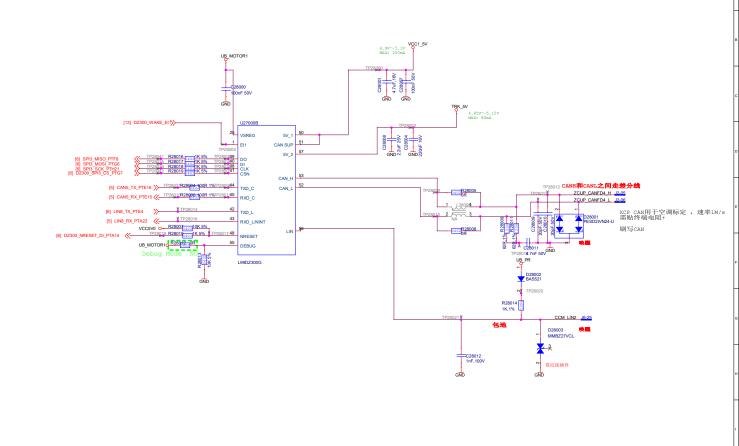


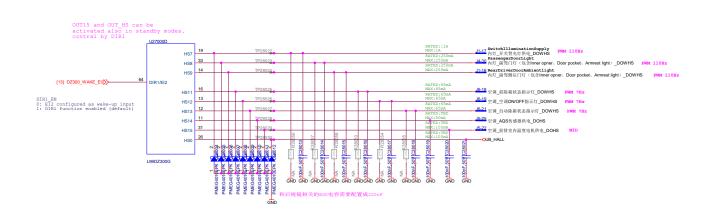
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Revision	miscory:							
Date	Author	Description	SCH Version	PCB Version	PCBA Version			
2023-10-01	Wenji.Feng	Inital Revision	V1.0A	V1.0	V1000 B			
2023-11-07	kang.yu	1.CAN替换成TPT1043Q,CAN和LIN的唤醒改到U4000的WAKE 2.IGN1唤醒信号改到4000的WAKE 3.7路DIPU唤醒信号接到L99DZ300的EI1/2上	V1.0A	V1.0	V1000 -			
2022-11-08	kang.yu	1.将J1-12修改改成J2-36	V1.0C	V1.0	V1000			
2023-11-14	kang.yu	1.将J1-35 转向灯流水使能引脚和J1-14 内灯_副驾车门及副驾侧后门侧边照明分配的驱动资源互换	V1.1A	V1.1	V1000			
2023-11-21	kang.yu	1.修改J5-30鼓风机驱动电路	V1.1A	V1.1	V1000			
2023-12-11	kang.yu	1.将LIN的上拉有2*2.2K修改成1.0K上拉	V1.1A	V1.1	V1000			
2023-12-13	kang.yu	1.将J3-01和J3-06互换位置。	V1.1A	V1.1	V1000			
2023-12-22	kang.yu	1.增加C4051,R10030,R10031,R28060-R28055 2.D4006由SMJ30CAHE3_A/H改成SMBJ30CAHE3_A/H 3.CAN上的负载电容由47pF改成20pF	V1.1A	V1.1	V1000			
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