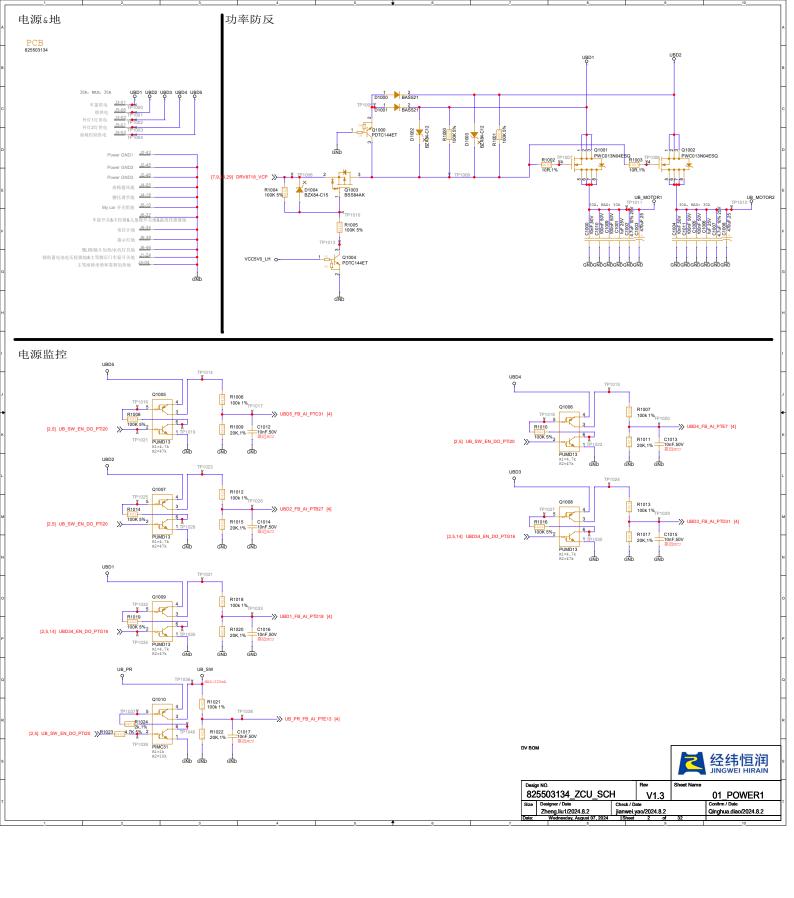
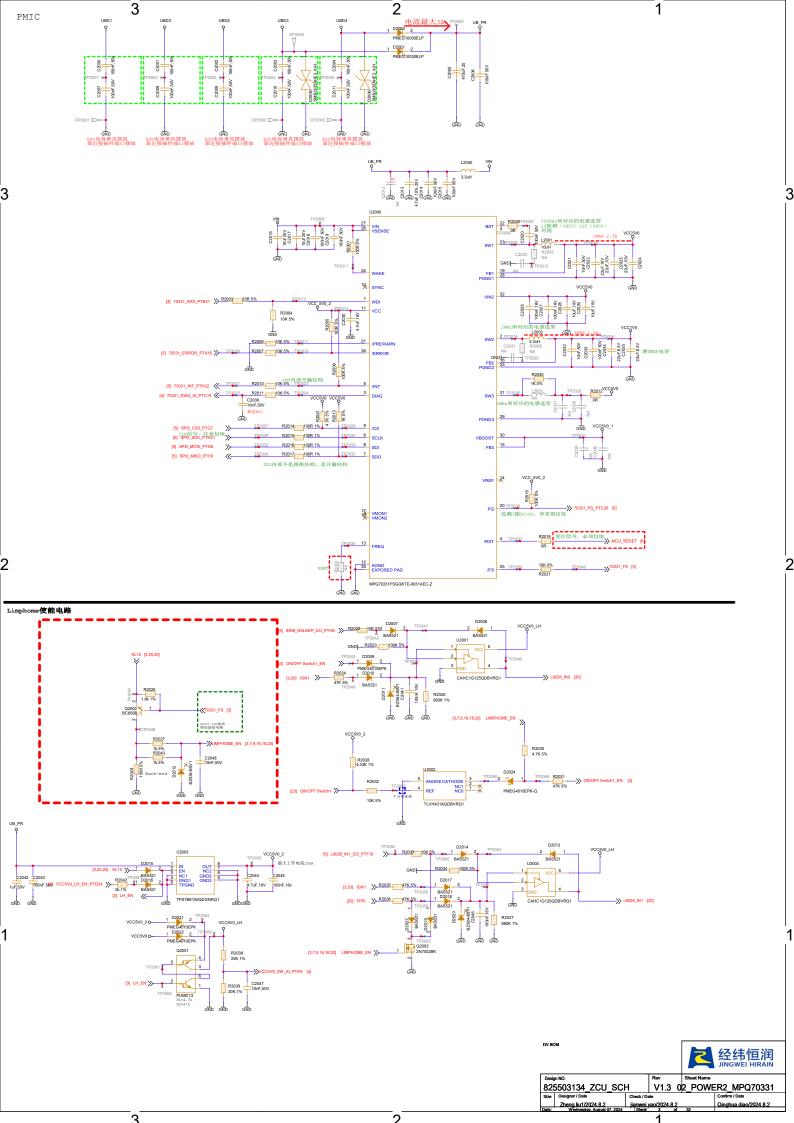
PCB Layout Information									
项目名称:	吉利3.0 zcup产品项目								
项目编号:	AP230152	项目经理:	张红玲						
LAYOUT工程师:	梁岩	 民							
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	×××××××××××××××××××××××××××××××××××××××	xxxxxxxxxxxxxxxx	xxxxxxxxxx	×××××××××××××××××××××××××××××××××××××××					
输入时间: Input Time:	2024-08-02	PCB ERP Number:	825503134						
原理图名称: Shematics Name :	825503134_ZCU_SCH		版本: Version:	V1.3					
DXF文件名称: DXF File Name:	825503134_BCM_DXF		DXF状态: DXF State:						
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						
其他要求: Other :	-	4 4	I						
·····································	*************	*************	*****	*****					
Output Information:									
LAYOUT文件名称: LAYOUT File Name:	825503134_BCM_LAYOUT_br	nd	版本: Version:	V1.3					
DXF文件名称: DXF File Name:	825503134_BCM_DXF								
emp/emn文件名称: emp/emn File Name:	NA	注。	意: 导出三维信息时 都应为英文字符,	t, 输入和输出文件 否则不能正确生成。					
	TOP.art Soldermask_								
Gerber文件名称:	GND.art Soldermask_ PWR.art Silkscreen_	Top.art	df						
Gerber File Name:	BOT.art Silkscreen_ Assembly_To Assembly_Bo	p.art							
Drill文件名称: Drill File Name:	Ger_Con_Drill.drl								
Route文件名称:	Ger Con Route.rou		如果PCB上有异形孔,	· 请生成ROUTE文件。					
Route File Name: 其他输出:									
Other : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	   	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	xxxxxxxxxxxx					
需要注意的问题: Need to Attention !:									
敏感信号线: Sensitive Signal Line:									
易干扰信号线:	LIN BUS								
Interference Signal Line: 射频信号线:	LF driver antenna termi	nal							
RF Signal Line: 等长信号线:	_								
Same Delay Signal Line: 差分对:	CAN BUS								
Differetial Signal Line: 大电流:									
High Current: 其他:	ATD.								
Other : 其他:	NA								
Other :	NA XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	(XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXX	XXXXXXXXXXXX					
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		DV BOM	Γ	/= /= !					
				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	一担师治泽	Design NO.		neet Name					
XHT小心爭且, 焆个I型用土	- 1/エグドイツノ坦。	825503134 ZCU	_SCH   V1.3	00 INFORMATION					

jianwei.yao/2024.8.2 | Sheet 1 of

Zheng.liu1/2024.8.2 Wednesday, August 07, 2024





U3000-1 [28] HALL\_ITO PWMI\_PTG1
[13] LINR\_RX\_PTA22
[13] LINR\_RX\_PTA22
[13] LINR\_RX\_PTA22
[14] LINR\_RX\_PTA22
[15] HALL\_CTHS\_PWMI\_PTI2
[28] HALL\_HS\_PWMI\_PTG2
[12] CANS\_RX\_PTE15
[13] LINL\_TS\_PWMI\_PTF3
[14] LINL\_TS\_PWMI\_PTF3
[15] RTISE2\_CS2\_AI\_PTA25
[17] RTISE2\_CS2\_AI\_PTA25
[17] RTISE2\_CS2\_AI\_PTA25
[18] LINR\_RX\_PTA23
[18] LINR\_RX\_PTA23
[19] LINR\_RX\_PTA23
[13] LINR\_RX\_PTA24
[19] SPH\_CS0\_PTA27
[19] VNBO\_CLK\_PTD0
[13] LINR\_RX\_PTA24
[19] SPH\_CS0\_PTA27
[19] SPH\_CS0\_PTA27
[19] SPH\_CS0\_PTA27
[19] SPH\_CS0\_PTA27
[19] SPH\_CS0\_PTA29
[19] SPH\_SCK\_PTA28
[19] RTISE3\_SO2\_AD\_PTG5
[19] RTISE3\_SO2\_AD\_PTG5 [19] [13] [13] [9] [7,9,20] [7,9,20] [7,9,20] [29] R3000 0402 100R 1% TP3000 TP3000 TP3000 [16] ZHBIG\_SNS\_AL\_PIB19

[14] EDM AL PTI0
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[11.25] FPR\_AL\_PTG21
[11.25] IPR\_AL\_PTG21
[11.25] IPR\_AL\_PTG21
[11.25] IPR\_AL\_PTG21
[11.26] INAKE\_PTE23
[12] LINX\_EX\_PTE16
[13] LINX\_EX\_PTE26
[14] CANS\_WAKE\_PTA16
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[16] CANS\_WAKE\_PTE26
[17] R71882\_INZ\_PWM\_PTE26
[18] CANS\_WAKE\_PTE26
[19] LINX\_EX\_PTE26
[19] LINX\_EX\_PTE36
[13] LINX\_EX\_PTE18
[13] LINX\_EX\_PTE18
[13] LINX\_EX\_PTE18
[13] LINX\_EX\_PTE18 ACC, SE31/PTB19/FTU0\_CH4

2 D1 ADC1\_SE0/PTI0/FCUART7\_TX/FTU9\_CH4

ADC1\_SE1/PTH1/FCUART7\_CTS/FTU9\_CH8

ADC1\_SE2/PTE1/SFCUART1\_RX/FTU9\_CH8

ADC1\_SE3/PTA19/FCUART1\_RX/FTU9\_CH8

ADC1\_SE3/PCMP\_INIPTC22\_SENTO\_RXD3/FTU1\_OD\_PHB/FCSPI0\_SCM\_\_\_(PD0/HS pad)

ADC1\_SE3/PCMP\_INIPTC22\_SENTO\_RXD3/FTU1\_OD\_PHA/FCSPI0\_SOUT/CMP2\_OUT\_\_\_\_(PD0/HS pad)

ADC1\_SE3/PCMP\_INIPTC23/SENTO\_RXD1/FCUART0\_RX/FCSPI0\_FCS0\_\_\_\_(PD0/HS pad)

ADC1\_SE3/PCMP\_INIPTC23/SENTO\_RXD1/FCUART0\_RX/FCSPI0\_SOUT/CMP2\_OUT\_\_\_\_\_(PD0/HS pad)

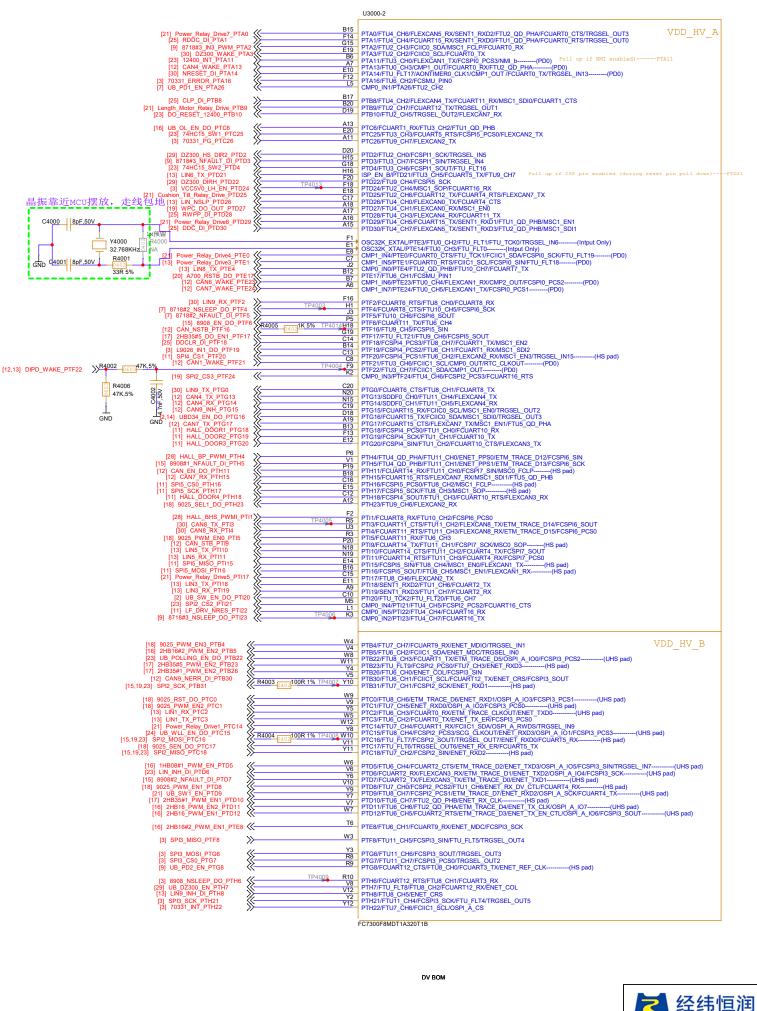
ADC1\_SE3/PCMP\_INIPTC23/SENTO\_RXD1/FCUART0\_RX/FCSPI0\_SOUT/CMP2\_OUT\_\_\_\_\_\_\_\_(PD0/HS pad)

ADC1\_SE3/PCMP\_INIPTC23/SENTO\_RXD1/FCUART0\_RX/FCSPI0\_SOUT/CMP2\_OUT\_\_\_\_\_\_\_\_\_\_\_(PD0/HS pad)

ADC1\_SE3/PCMP\_INIPTC23/SENTO\_RXD1/FCUART0\_RX/FCSPI0\_SOUT/FCSPI0\_SOUT/FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCSPI0\_SOUT\_FCS R3007 1K 5% TF R3004 0402 1K 5% TF R3006 0402 1K 5% TE R3003 47K 5% TP3010 A2 C4 [22] DOD ALPTC23
[24] GRX ALPTH9
[25] Seat Motor Gruip By Mc Al PTC24
[26] Seat Motor Gruip Current FTC10
[27] FESTERSSHS SIN ALPTH10
[28] SPEC SEAT STEAT SHEET S R3009 \_100R 1% R3008 \_100R 1% [23] RDWS AI PTB29
[26] CLP\_AI\_PTC12
[26] CANB\_TX\_PTC12
[27] CANB\_TX\_PTC13
[28] MESI\_1\_Z\_M\_PTC13
[27] MESI\_1\_Z\_M\_PTC13
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[28] MESI\_1\_Z\_M\_PTC3
[29] MESI\_1\_Z\_M\_PTC3
[21] CANB\_RX\_PTC21
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[21] PSCHB35B\_SNS\_AI\_PTC3
[22] SW\_118\_Backrest\_AI\_PT13
[21] PDWE\_REBIY\_DRWS\_PT144
[22] SW\_118\_Backrest\_AI\_PT13
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[25] MESI\_AI\_PTB2
[26] MEM\_AI\_PTG12
[27] MESI\_AI\_PTB2
[28] MESI\_AI\_PTB3
[29] UBD2\_ER\_AI\_PTB25
[21] CANS\_TX\_PTC28
[30] D2300\_DIRI\_PWM\_PTF10
[21] Seat\_Mtoto\_Group2\_Current\_PTI7
[22] SW\_1st\_Length\_AI\_PTB8
[24] RSS\_AI\_PTB21
[25] MESI\_AI\_PTB21
[26] Seat\_Mtoto\_Group2\_Current\_PTI7
[26] MESI\_AI\_PTB21
[27] DDL1\_AI\_PTB20 TP30<u>03</u> FC7300F8MDT1A320T1B DV BOM



Design NO.			Rev		Sheet Name					
82	5503134_ZCU_S0	CH	V1	.3		03 I	иси	ADC&IO		
Size	ze Designer / Date Check / D			ate				Confirm / Date		
Zheng.liu1/2024.8.2		jianwei.	jianwei.yao/2024.8.2			Qinghua.diao/2				
Date:	Friday, August 09, 2024	Sheet	4	of	32					
6	7		8			9		10		

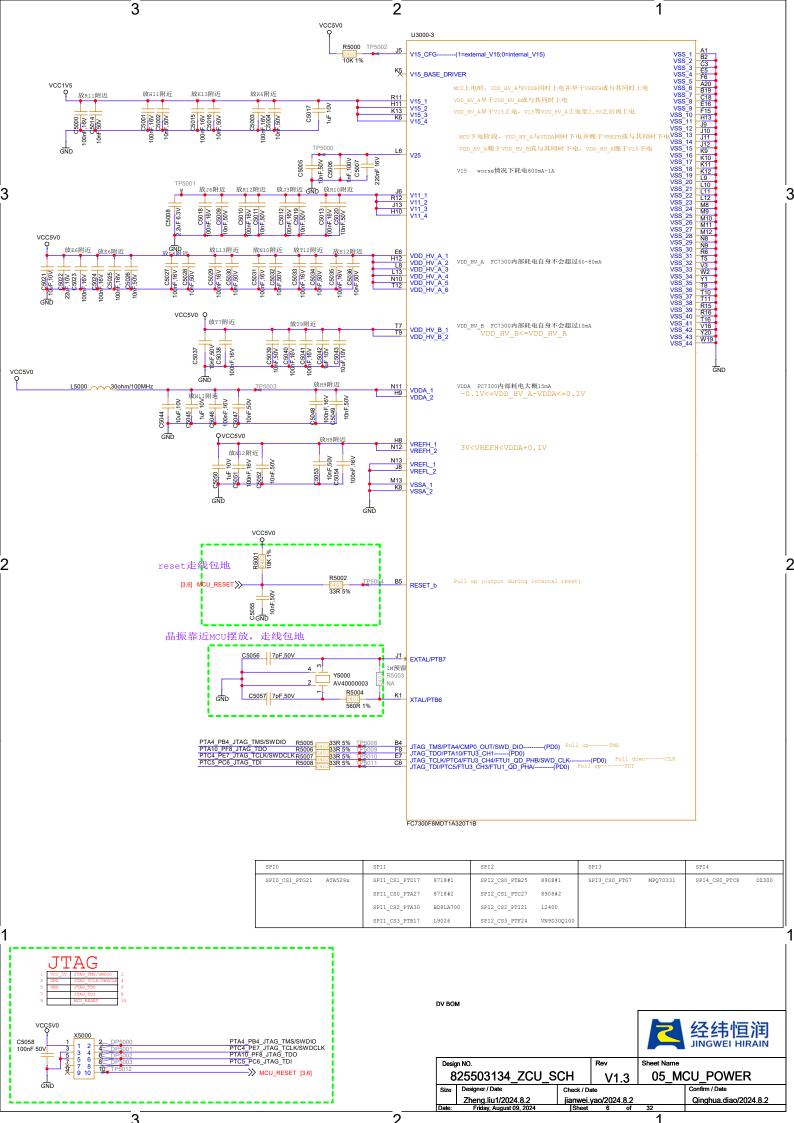


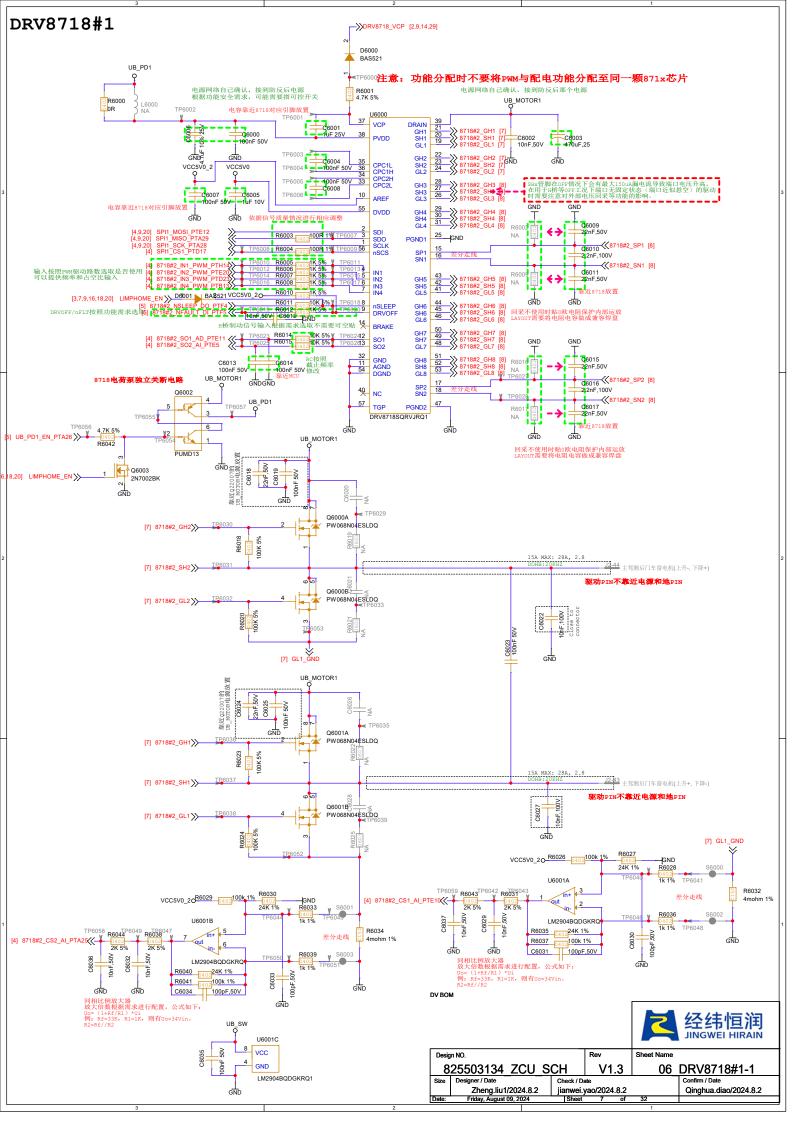
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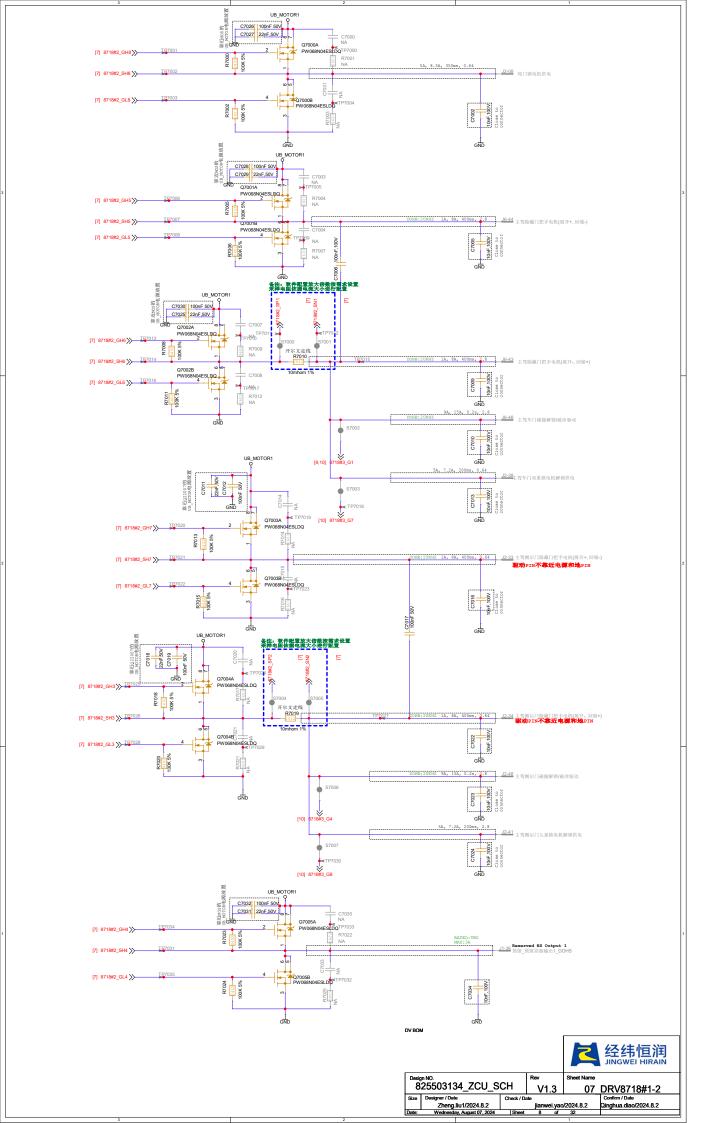


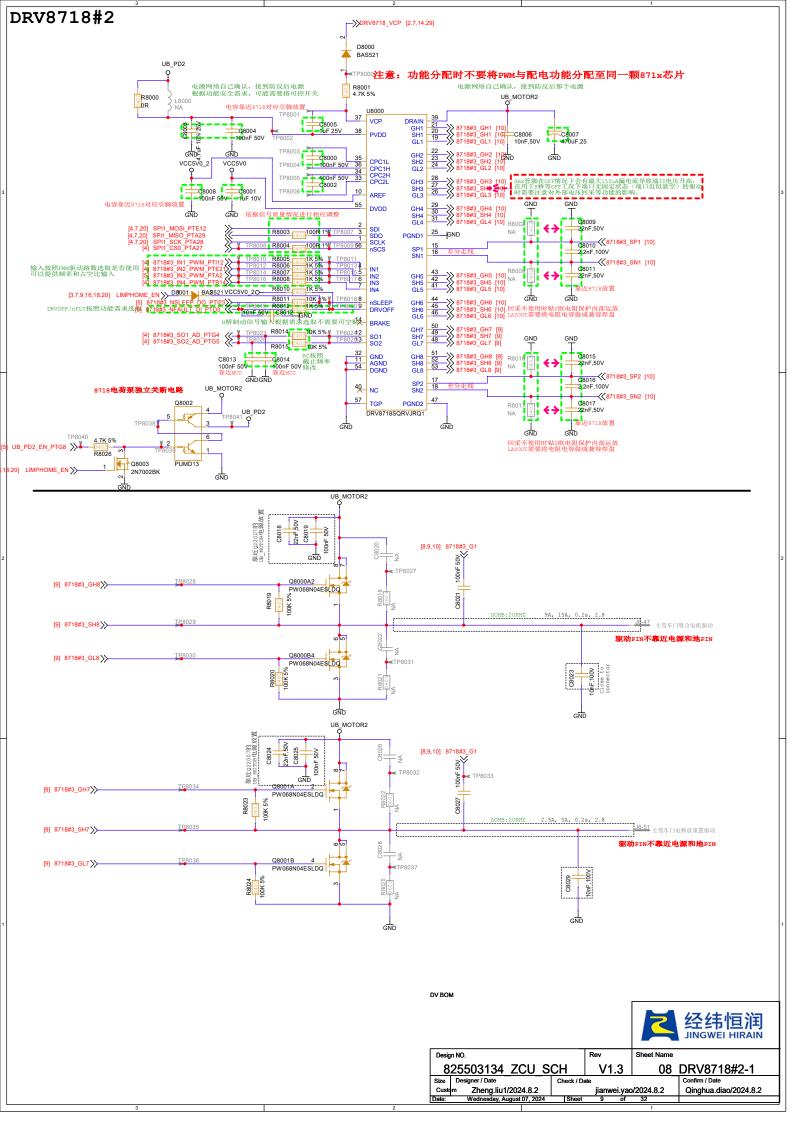
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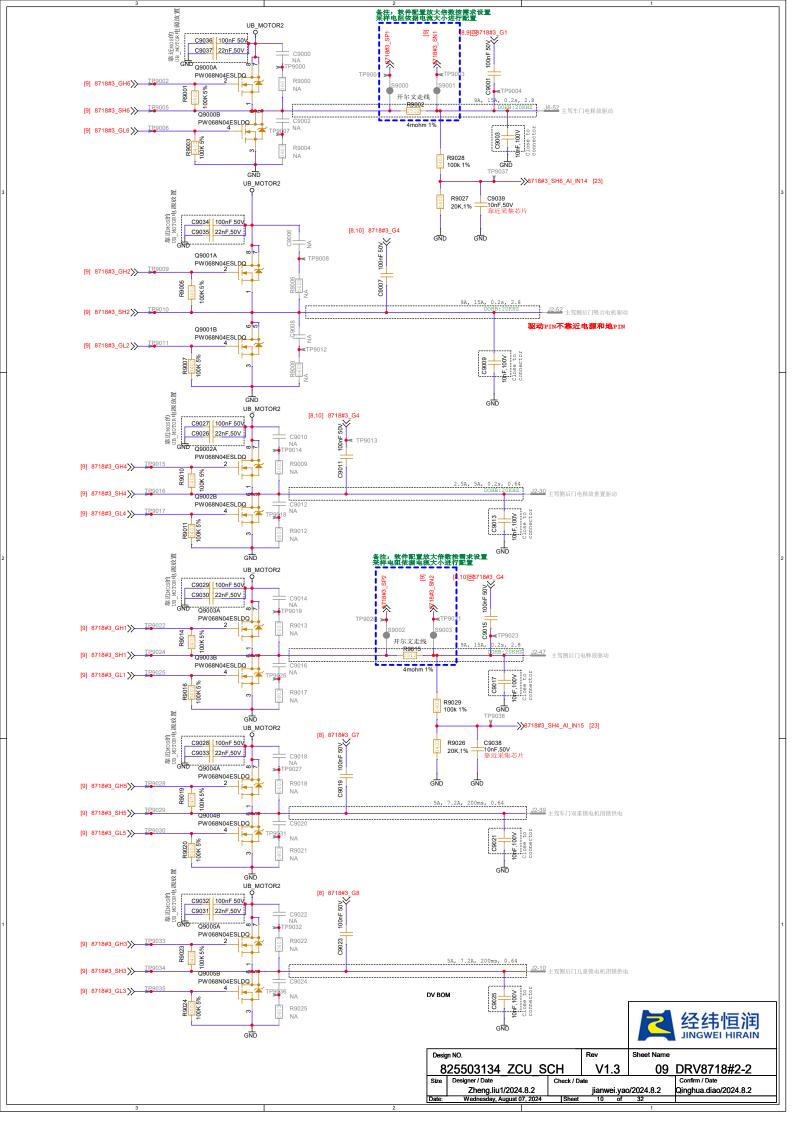
825503134\_ZCU\_SCH Confirm / Date Zheng.liu1/2024.8.2 jianwei.yao/2024.8.2 Qinghua.diao/2024.8.2

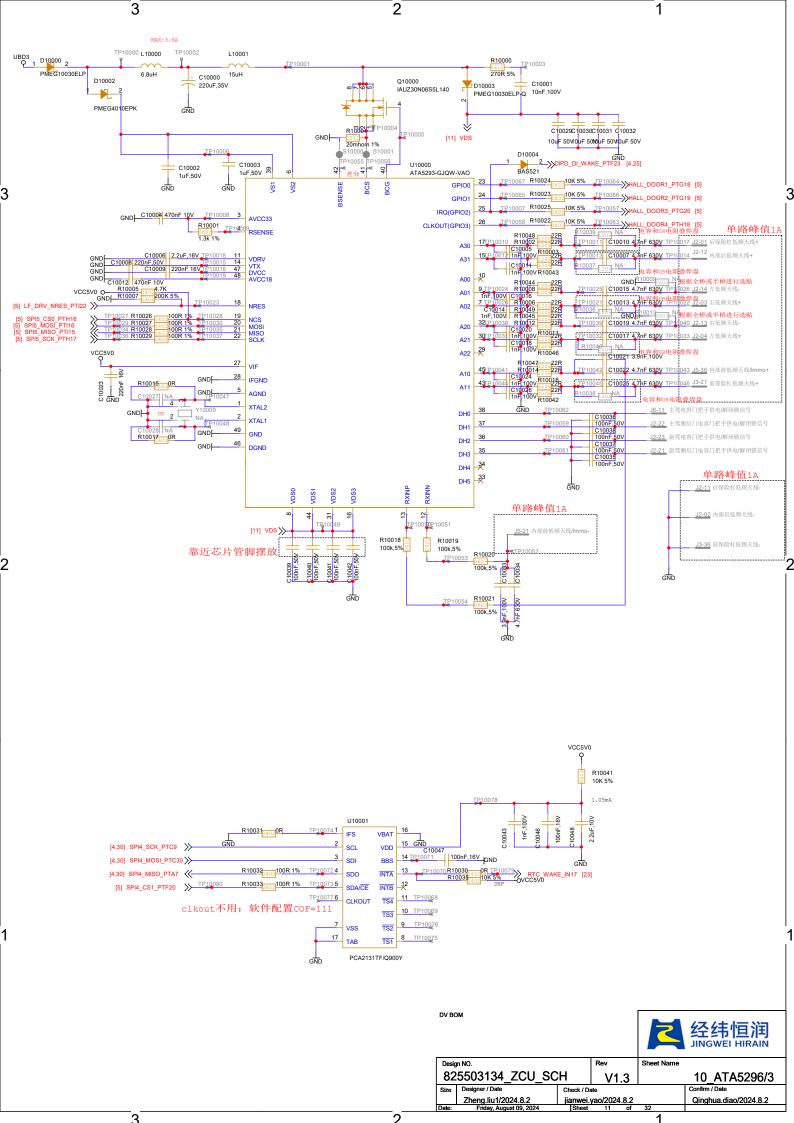


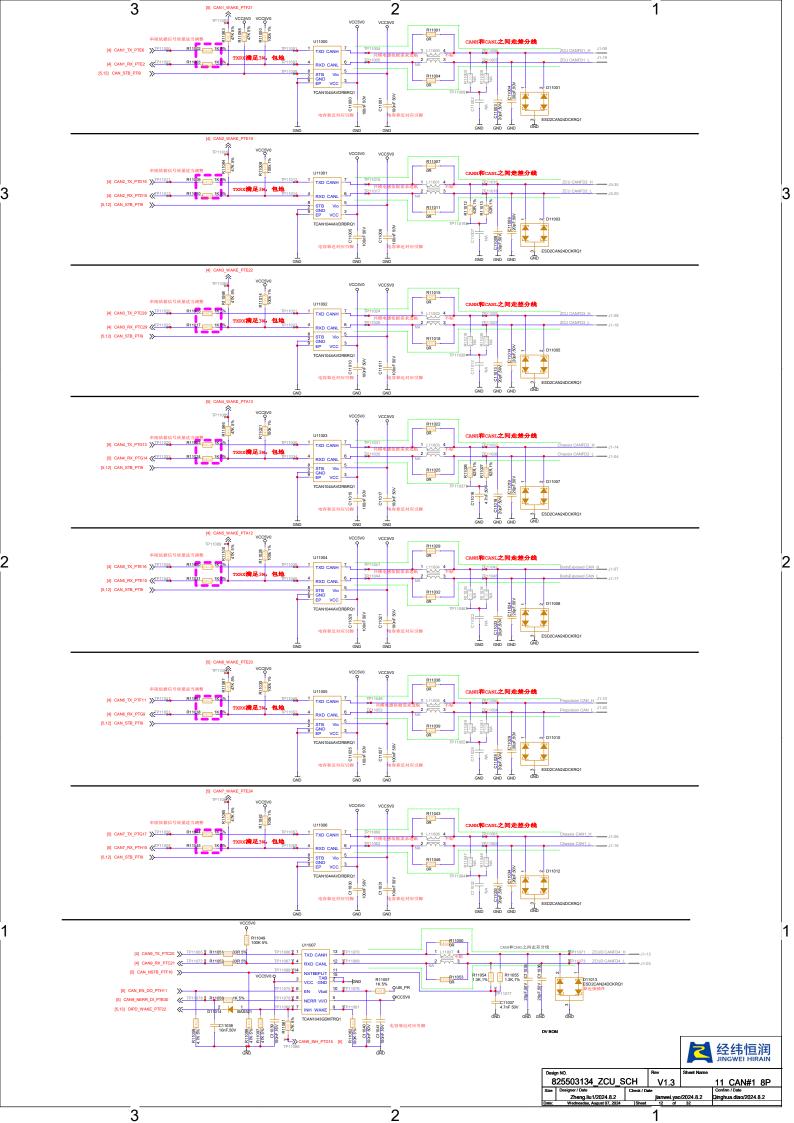


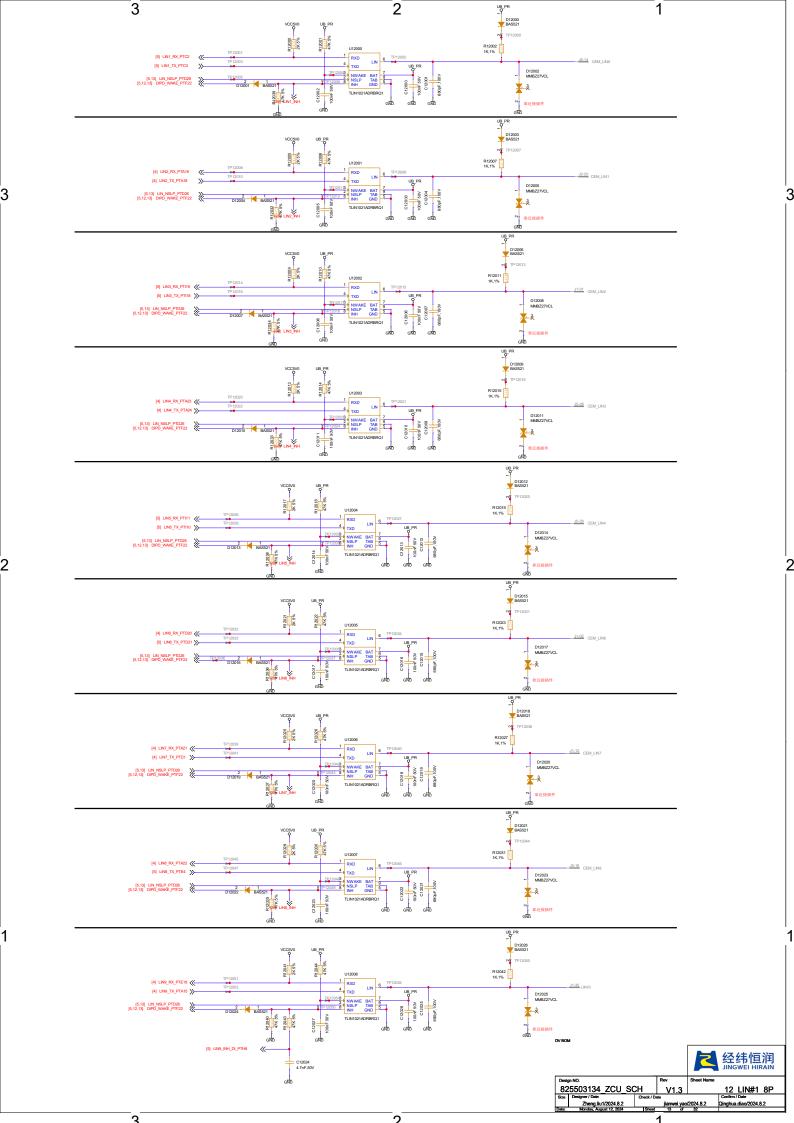


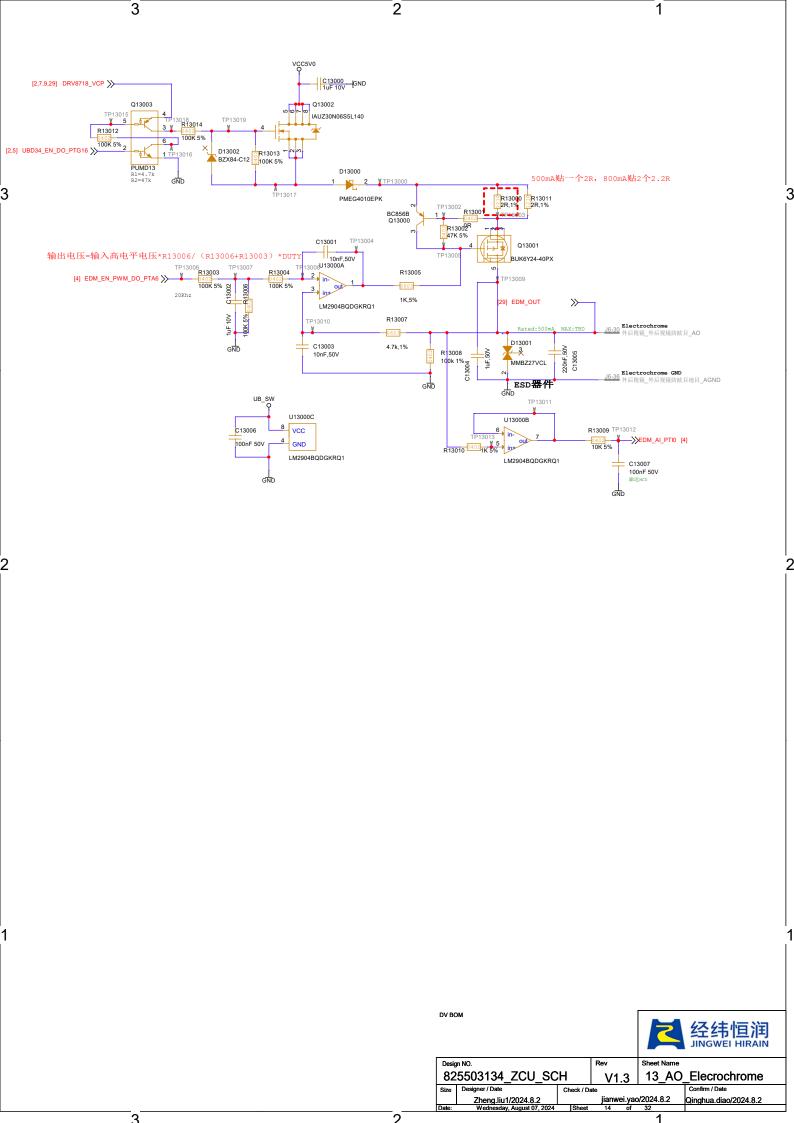


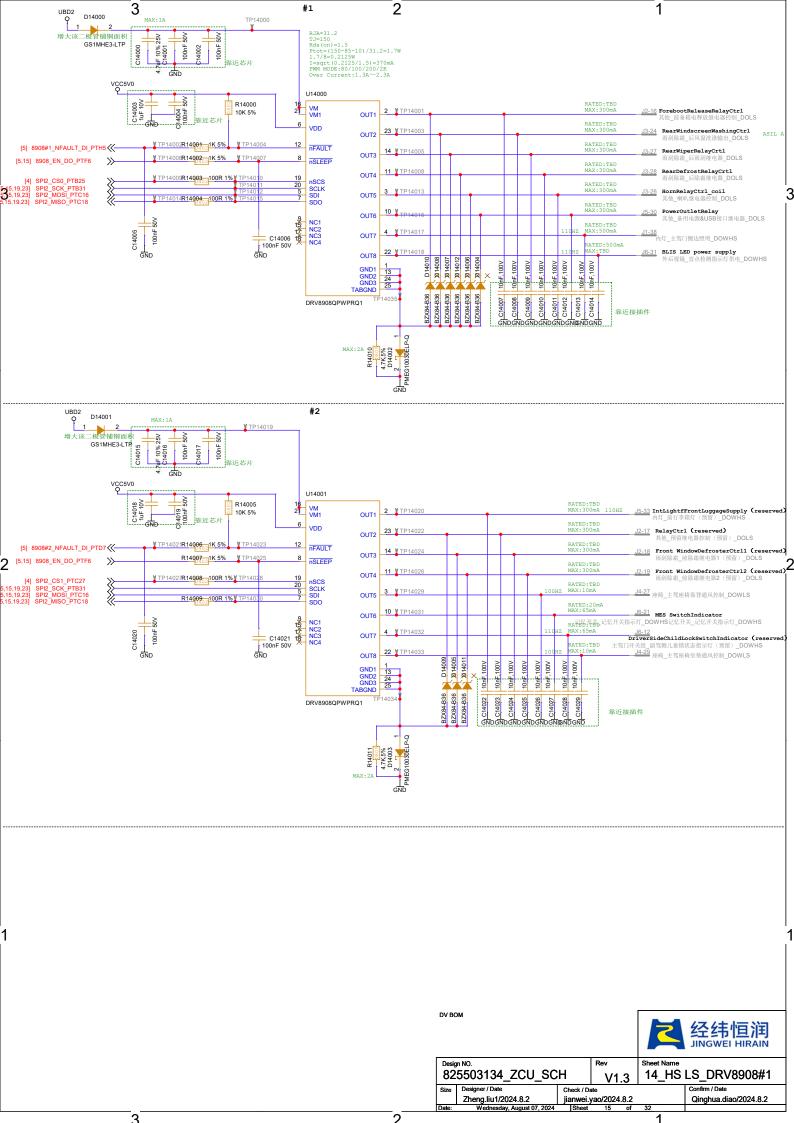


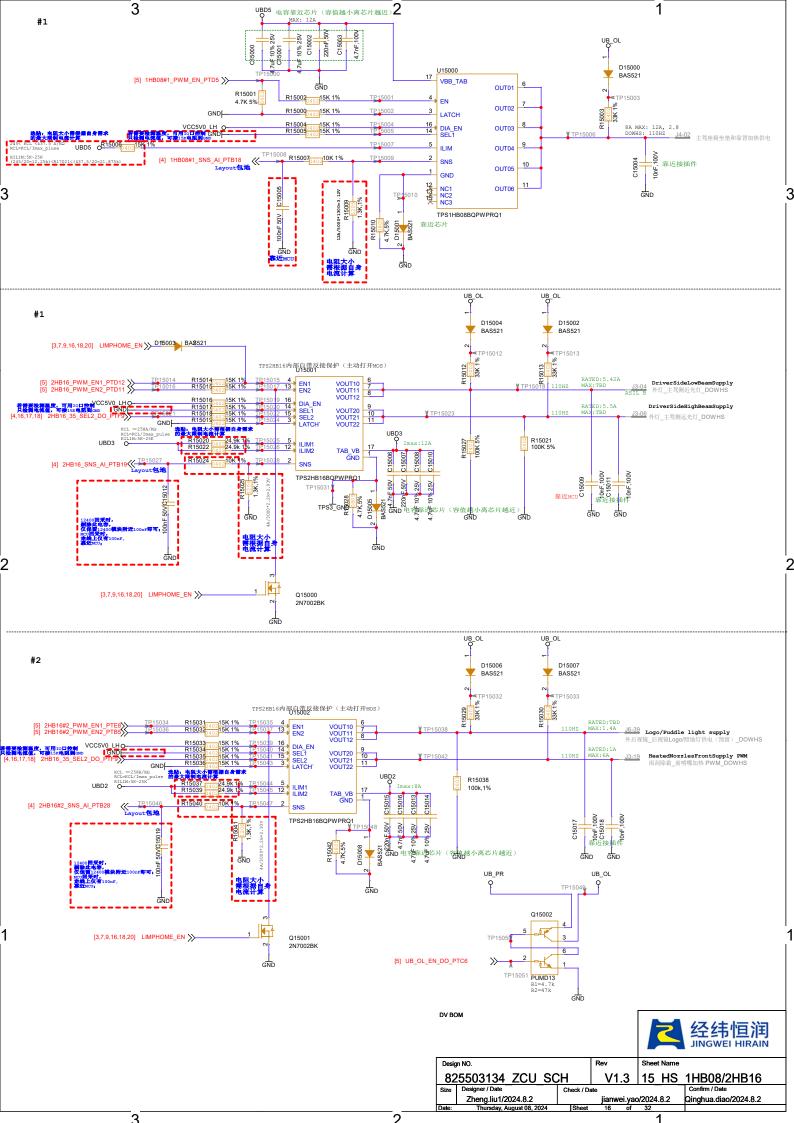


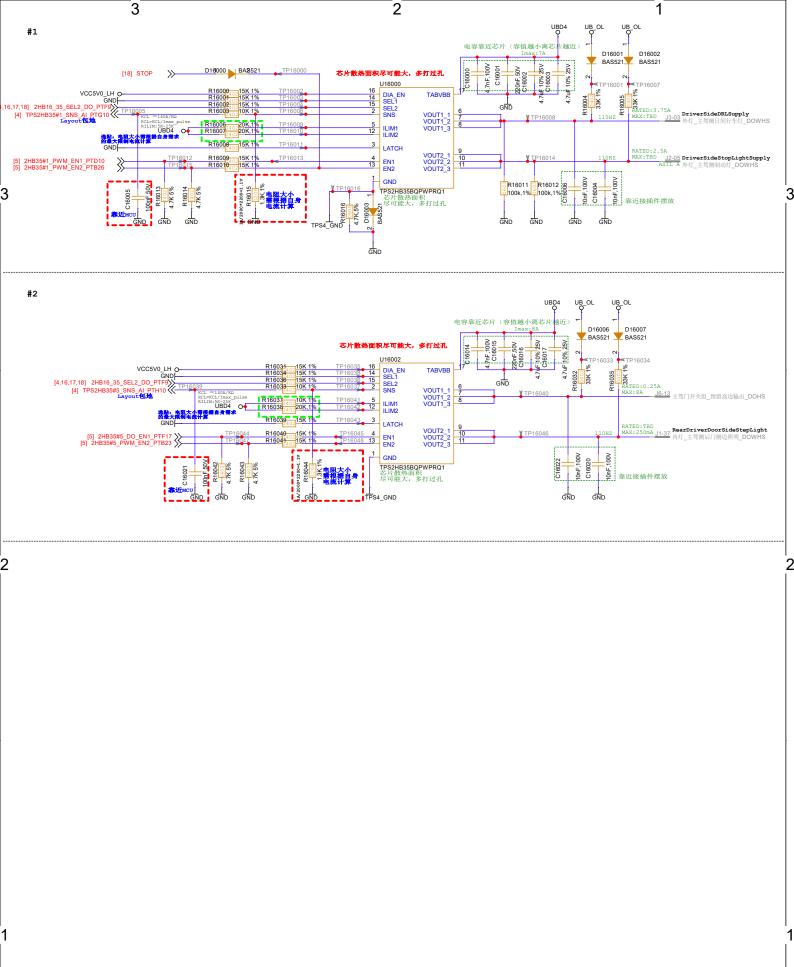




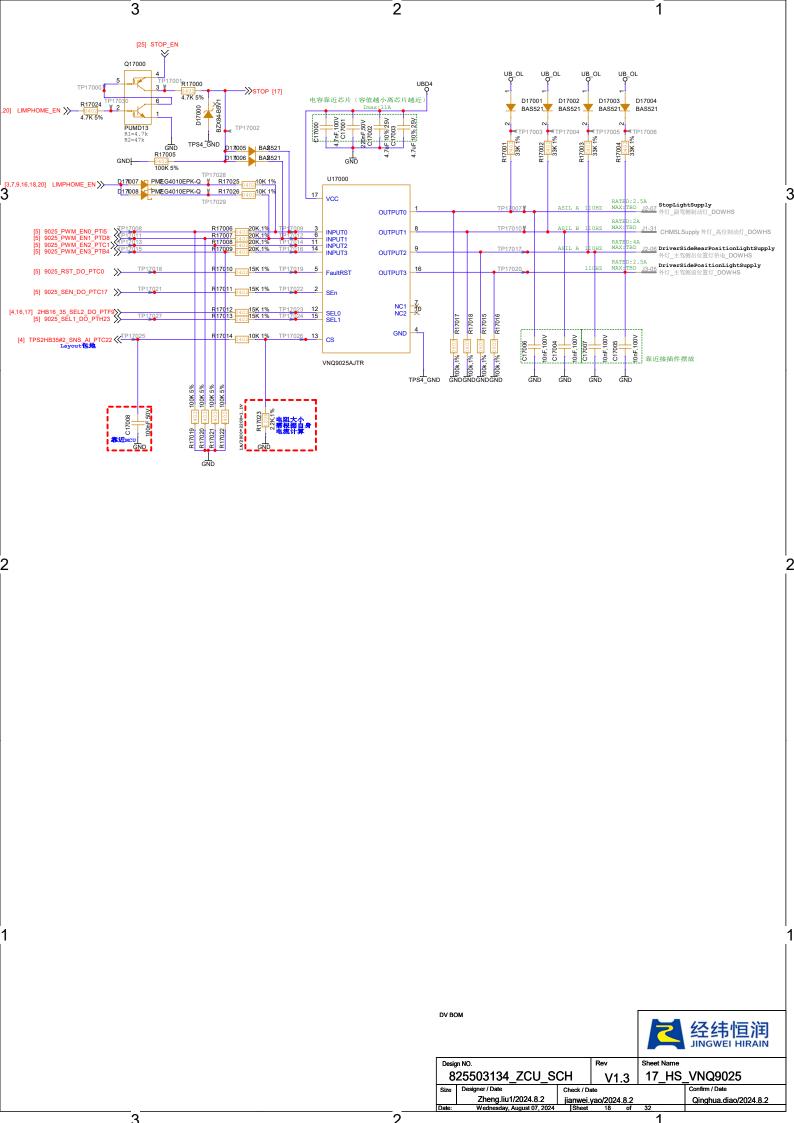


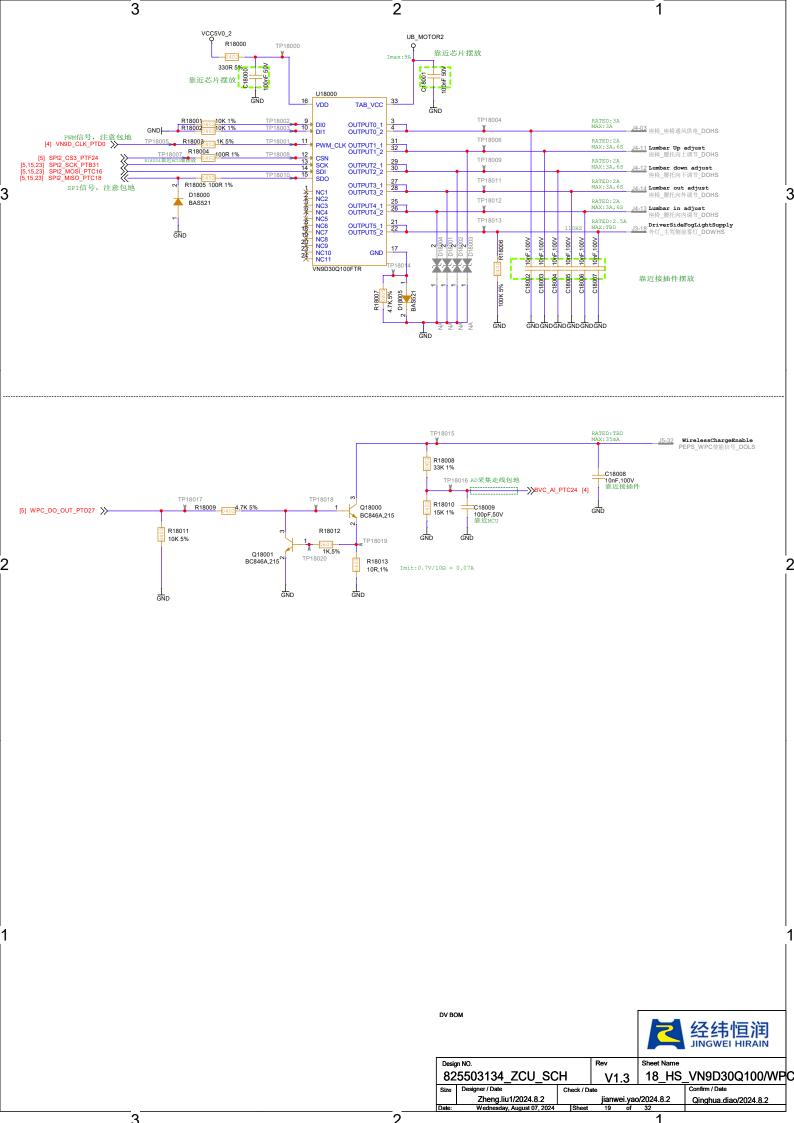


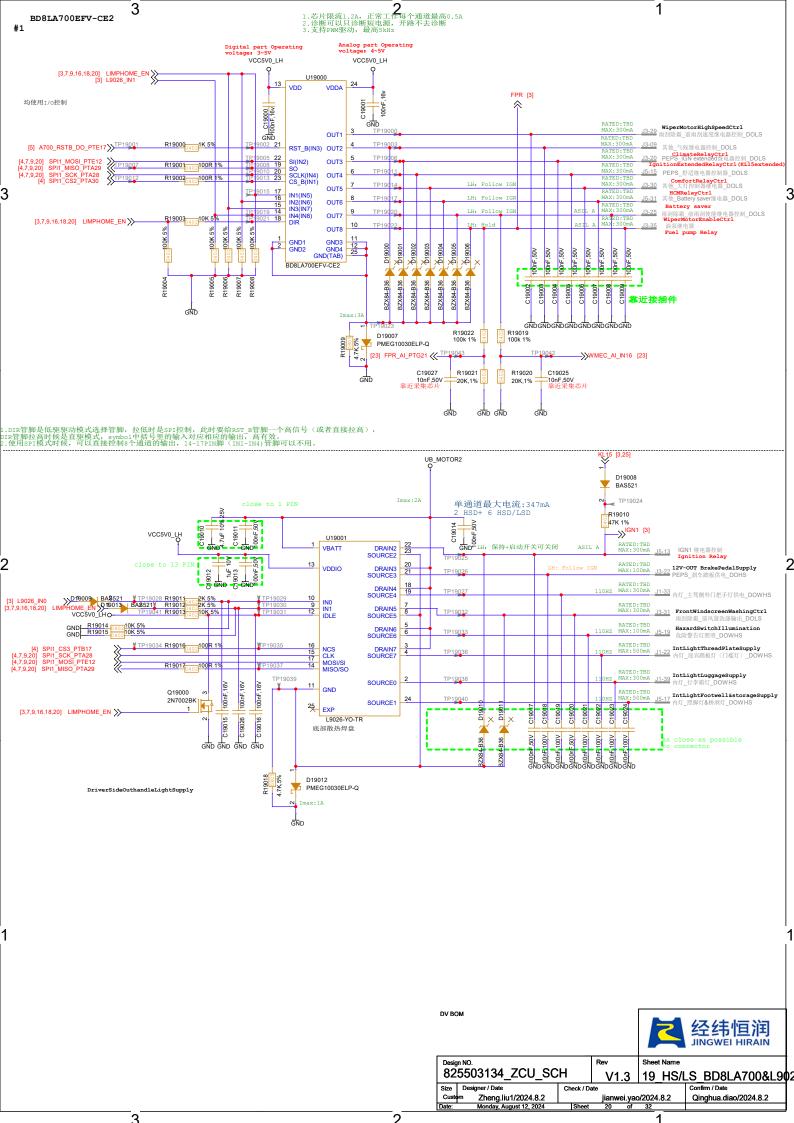


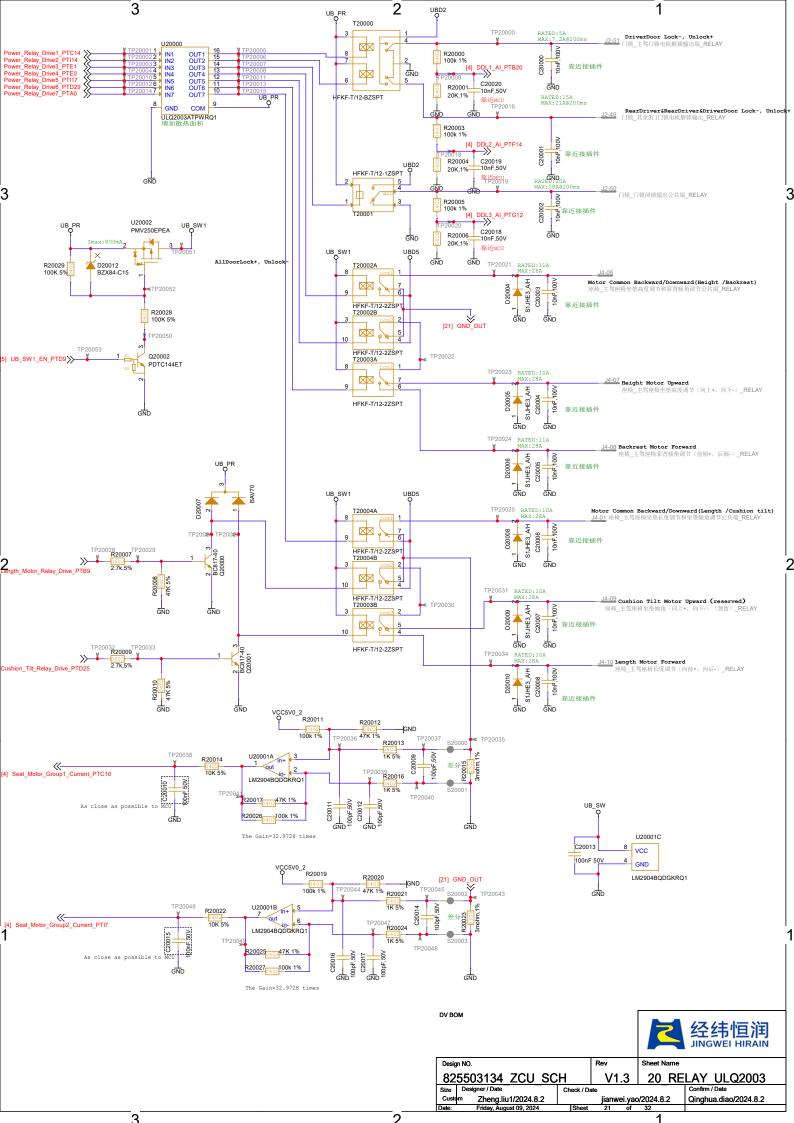


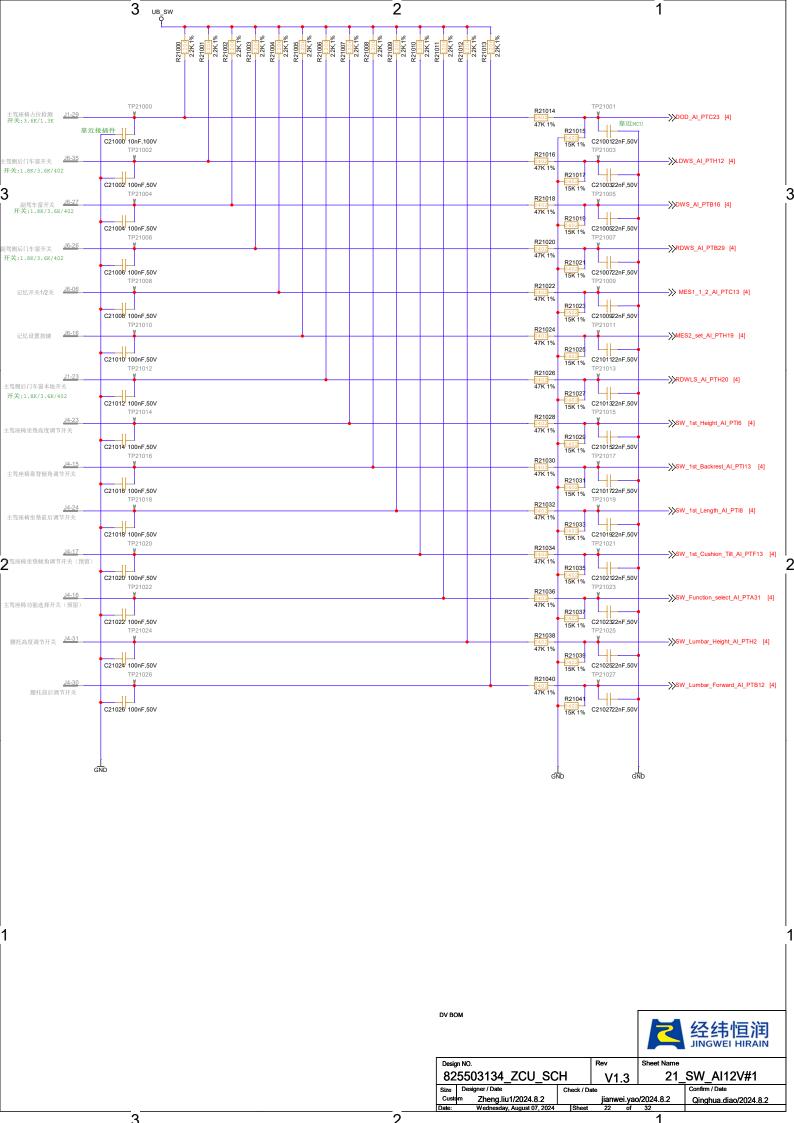
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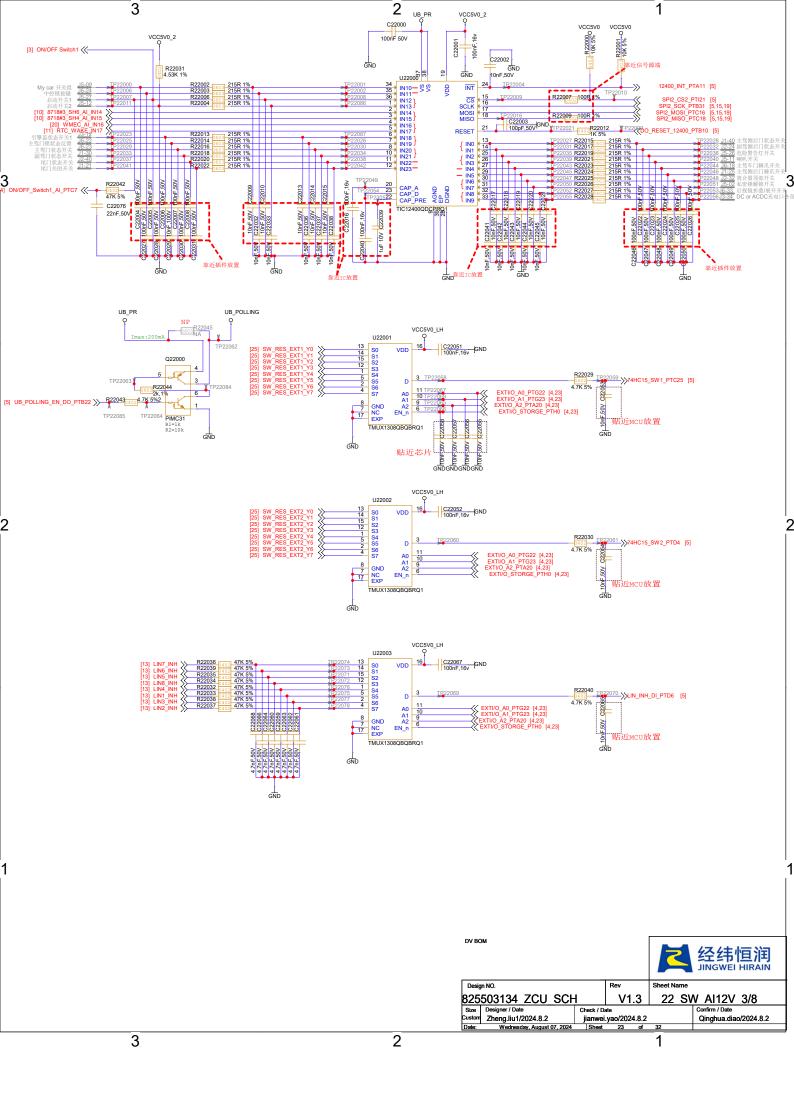


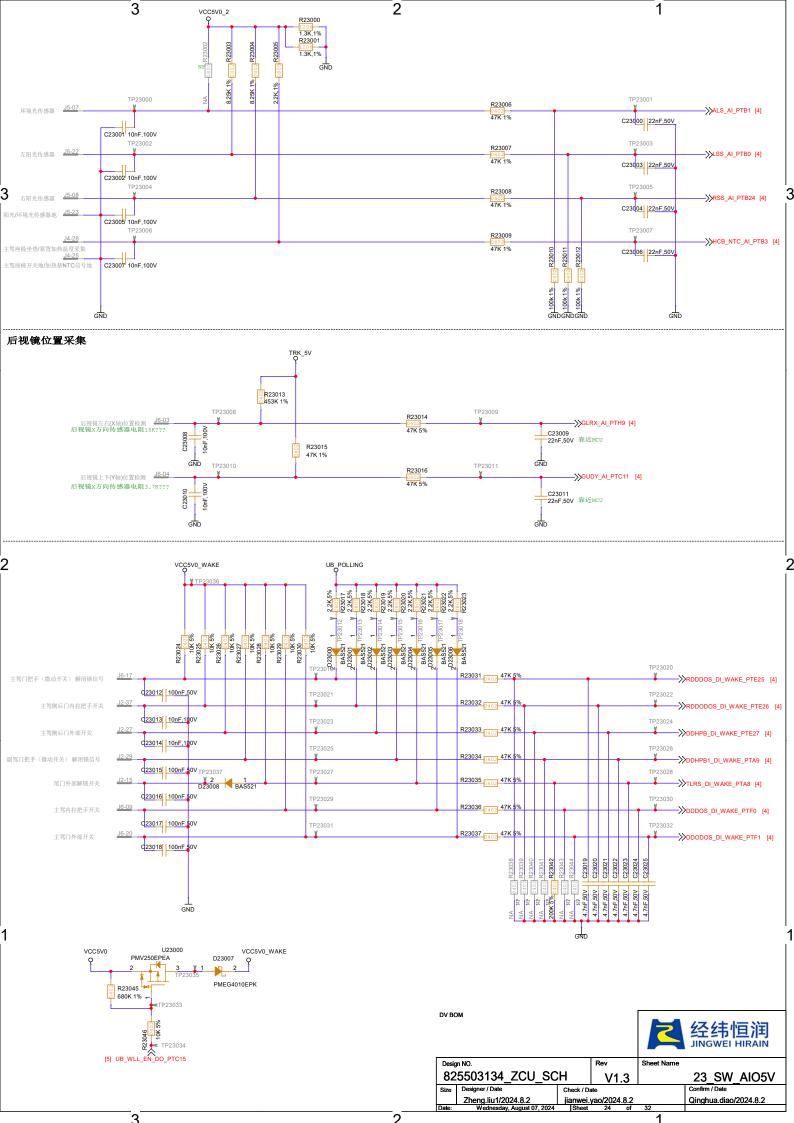


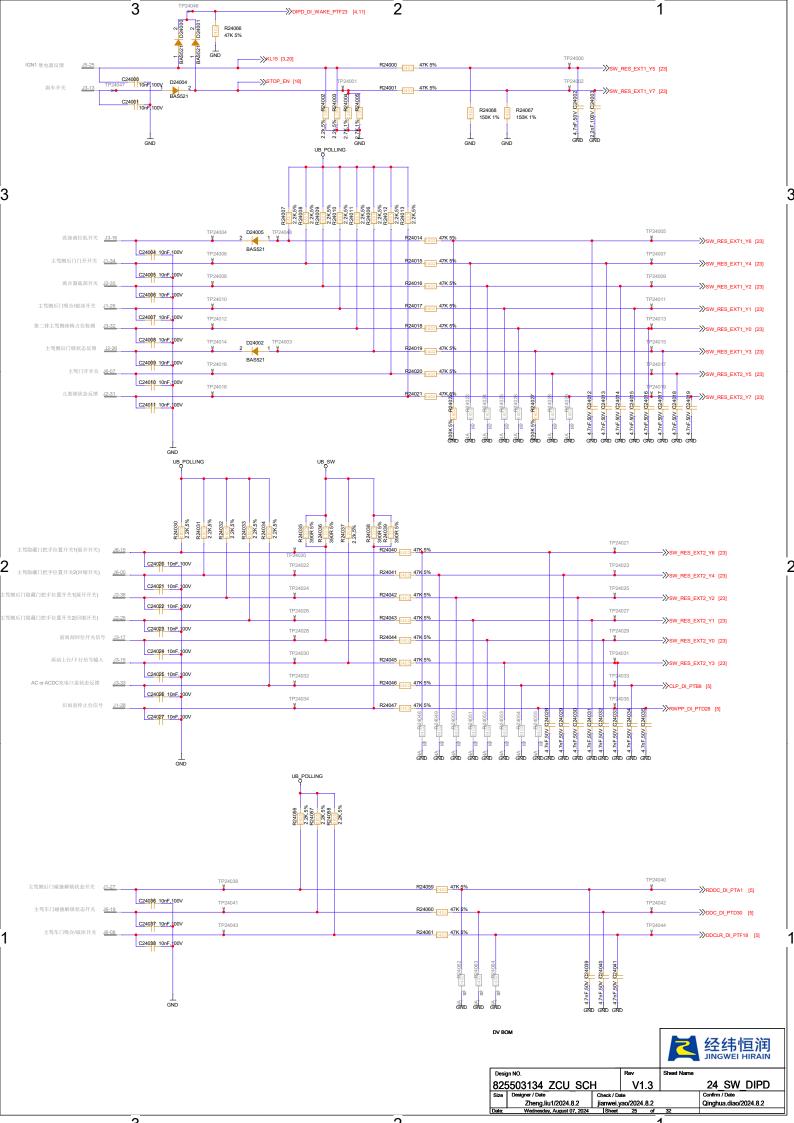


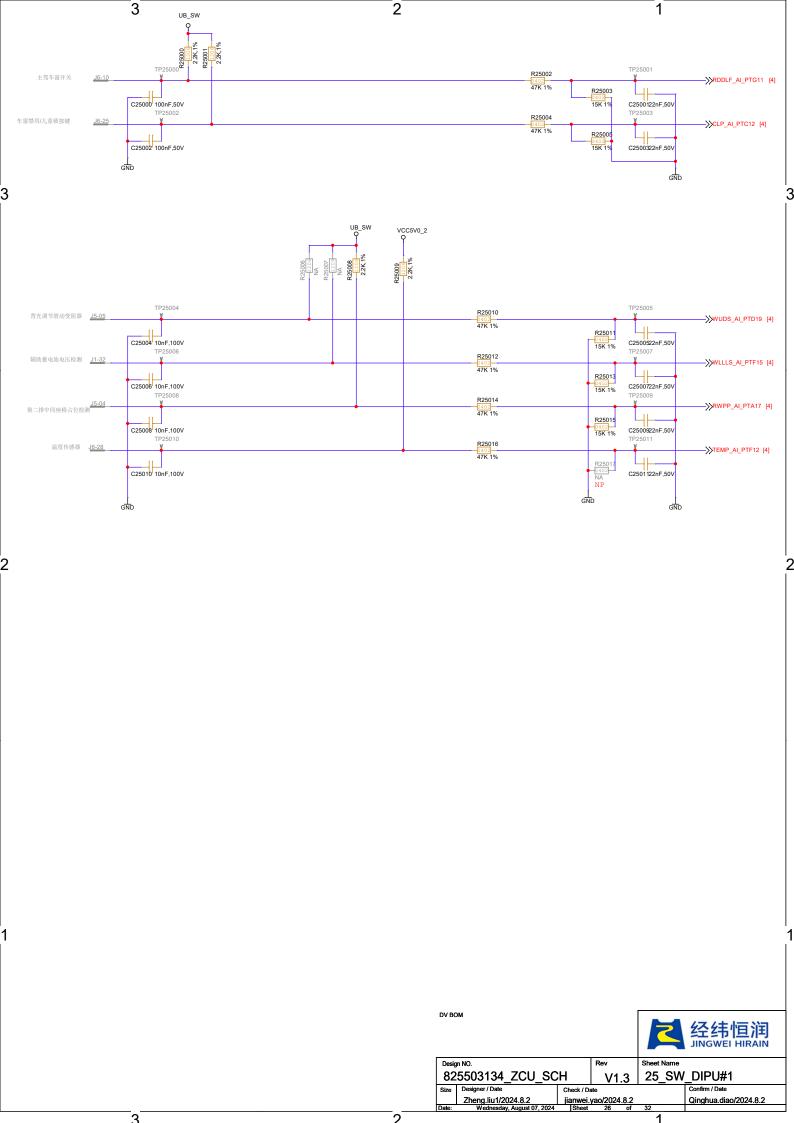


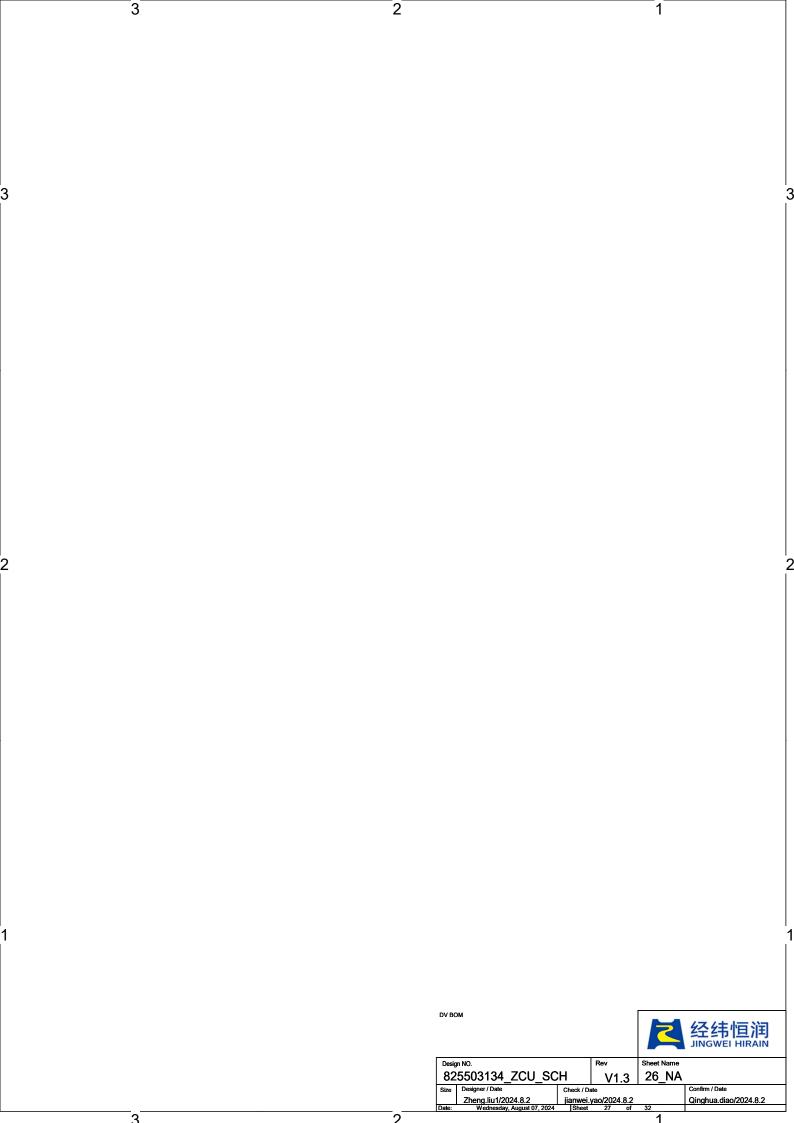


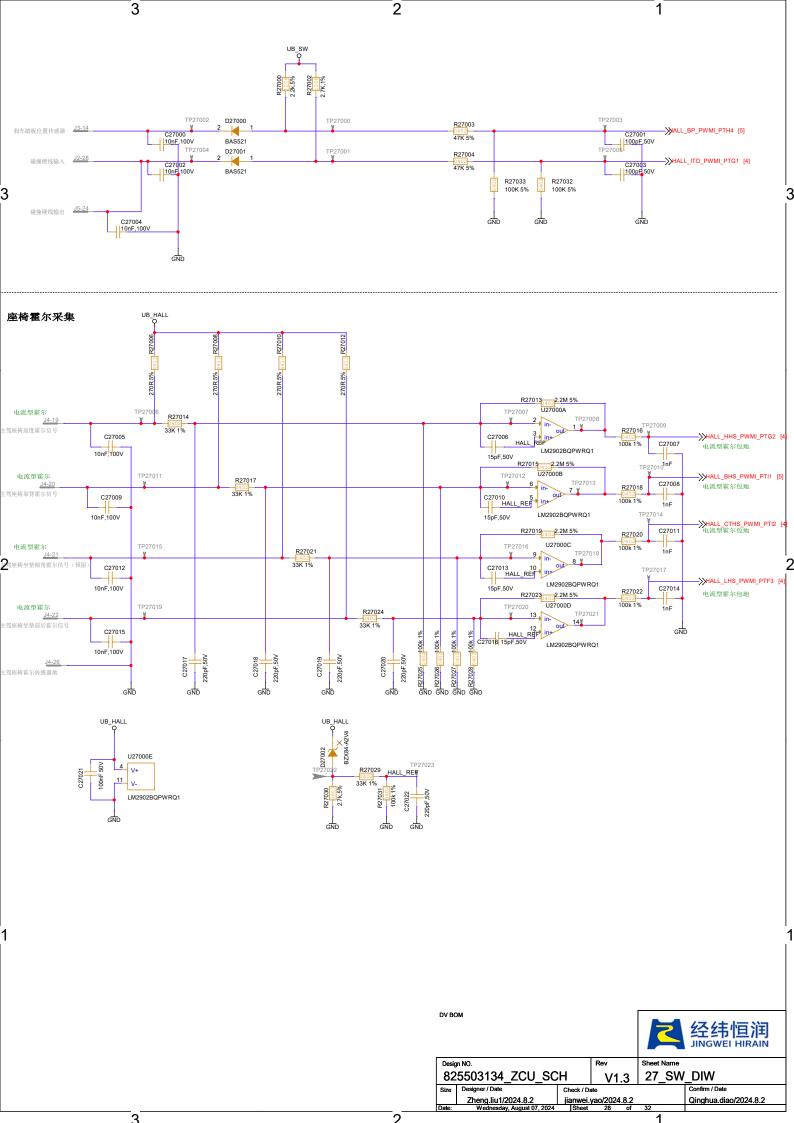


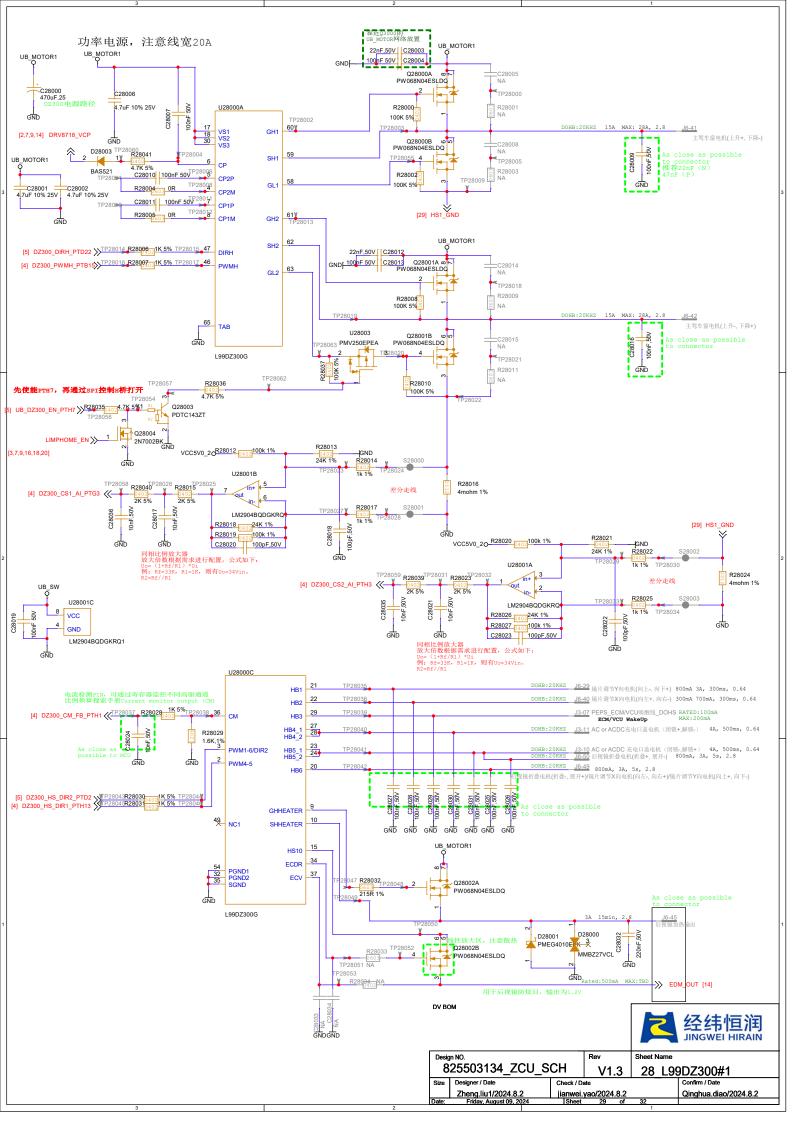


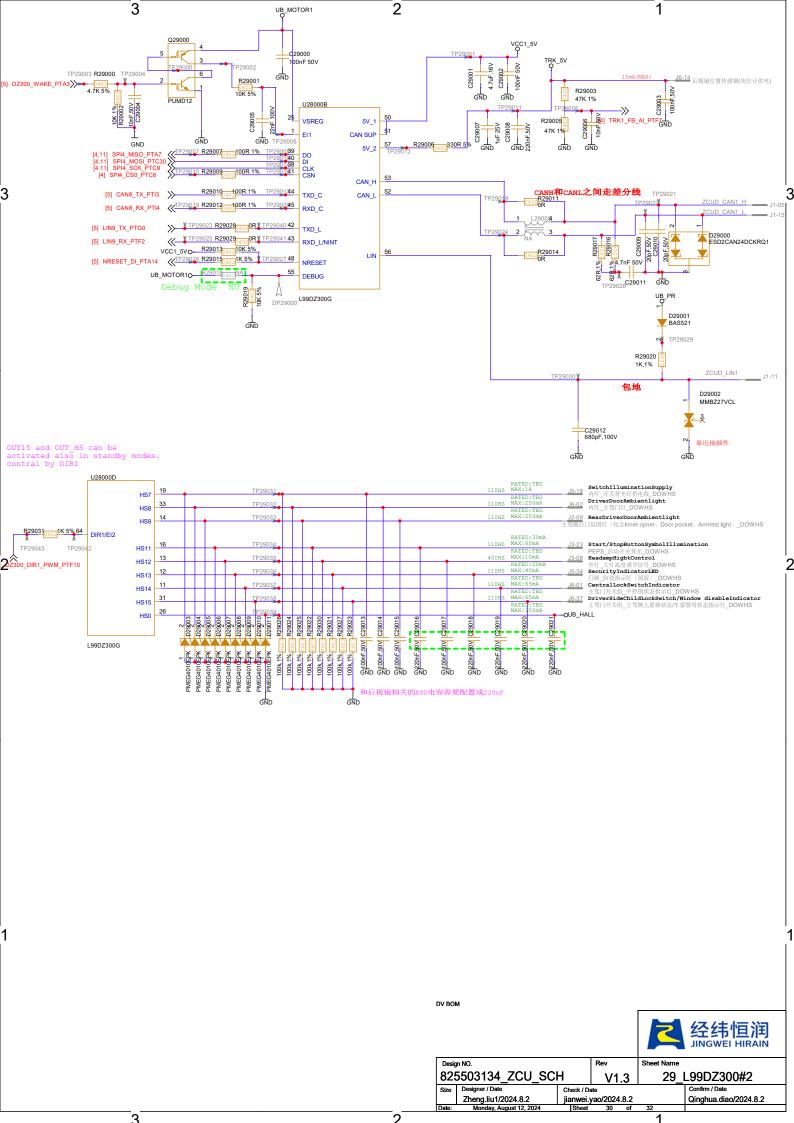












Revision	miscory.				
Date	Author	Description	SCH Version	PCB Version	PCBA Version
2023-11-10	zheng.liu1	初版	V1.0	V1.0	V1000A
2024-01-11	zheng.liul	1、修改UBD1-UBD5接插件顺序与ICD统一 2、修改逻辑电防反二极管为肖特基二极管 3、修改PMIC SM3管脚供电为VCC5V0同时增加1K电感跳阻 4、更换UB SW开关管为更大过流能力的PIMC31 5、删除UBD1、2、5的TVS同时更换UBD3、4的TVS为SMB 6PMIC的CS增加上拉 7、完善LIMPHOME功能电路增加LDO可控及电源合并电路等 8、增加RTC功能电路(晶振电路) 9、修改后门车窗电流采样为运放采集 10、依据供应商要求完善ATAS29x芯片外围电路并增加门把手采集功能 11、更换CAN芯片为小封装器件优化CAN唤醒电路 12、更换LIN上拉电阻为高功率电阻 13、额外并联一颗自搭防炫目限流电阻 14、8908防反二极管跟换为小封装器件优化会和收置电路 14、8908防反一极管跟换为小封变温极管 15、增加90300100上SDO二极管数输出续流更换为TVS并增加地防反 16、简化BD8LA700地防反电路 17、更新维电器型号、增加门锁电压回采电路、完善电流回采电路 18、增加12400电路用于5、增加门锁电压回采电路、完善电流回采电路 18、增加12400电路用551 19、删除VCC5V0 SW开关电路 20、依据供应商要求更新D2300上的ESD电容容值 21、更新平S系列芯片电流采样反馈电阻阻值	V1.1	V1.1	V1122A
2024-05-11	zheng.liul	1、车窗驱动增加独立关断电路 2、主驾、主驾后门车门电释放增加独立回采及关断电路 3、座椅控制增加独立关断电路 4、雨刮使能继电器加回采 5、前风窗洗涤输出与雨刮使能放在不同芯片上 6、NV9D300100需要独立的PWM输入信号: FTU7 3¬FTU4 2 7、TPS1/2H8芯片DIA EN管脚VCC5V0更换为非常电VCC5V0_LH 8、删除一个12400上INT多余IO口 9、8718的ABEF、DRVOFF管脚修改为VCC5V0_2非常电 10、2904偏置供电更新为非常电 11、低频天线的NRES下拉电阻阻值更新为200K 12、1043与1044的STB管脚单独分配 13、自挤防炫目增加供电可控开关 14、VCC5V0 WAKE控制电路更换为F的公结构 15、19026输出增加上转更换为非常电 16、D2300的Nreset更换为5V 1上拉 17、CAN、LIN、10析展、LDO、TVS更换为TI器件 18、锁存器更换为87203800 19、电流HALL采集上拉电阻更新为1颗 20、8908防反二极管更换为802615089 21、增加外部8TC 22、车窗纹波电机电流回采增加二极滤波 23、自挤防炫目电路更换控制电路串阻阻值 24、低驱钳位管更换为801300560 25、MC0晶振更换晶振为40M晶振 26、E级物料更换: 801200320更换为1uF 0603 50V (A) 801200940更换为1uF 0603 50V (A) 801201940更换为3.9nF 1206 100V (C) 80120160更换为3.9nF 1206 100V (C) 80120160更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802301530更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 8012014019更换为10F 0402 50V (A) 8012014019更换为10F 0402 50V (A) 8012014019更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 80120140120更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更升发为10F 0402 50V (A) 801203401更为为10F 0402 50V (A) 801203401更换为10F 0402 50V (A) 801203401更升发为10F 0402 50V (A) 801203401更升度的10F 0402 50V (A) 801203401更升度的10F 0402 50V (A) 801203401更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802301530更换为30R 2512 (C) 802301530更换为13F,18 0402 (C) 802610751更换为10F 0402 50V (A) 8026107532中换为10F 0402 50V (A) 8026107532中换为10F 0402 50V (A) 8026107532中换为30R 2512 (C) 8023015302 中的工户位系的工户位系的工户位系的工户位系的工户位系的工户位系的工户位系的工户位系	V1.2	V1.2	V1200A
2024-08-02	zheng.liu1	1、J1-35变更为LIN通信 2、J1-36硬件方案由TPS2HB35变更为8718驱动 3、删除J1-27的串联二极管,下拉电阻不贴 4、BodyExposed CAN增加唤醒功能 5、IAUC100N04S6N015更换为PW0013N04ESQ 6、JMSL0406AGDQ更换为PW068N04ESLDQ 7、ATA529x的SPI接口从SPI0移至SPI5 8、JMSL0406AGDQ、IAUC100N04S6N015更换平伟MOS 9、增加DZ300的LH关断路径 10、增加油泵继电器电压回采	V1.3	V1.3	V1300A
		DVEOM			

Revision History:

经纬恒润 JINGWEI HIRAIN

DV BOM

Rev V1.3

30\_REVISION
Confirm / Date

