

Page	Description
1	Cover Page
2	Revision History
3	Block Diagram
4	Power tree
5	Power
6	Power of Hi3516A
7	DDR of Hi3516A
8	DDR
9	Sys of Hi3516A
10	VIVO of Hi3516A
11	Peripheral of Hi3516A
12	ETH
13	Sensor Connector
14	RJ45 and WIFI
15	TF Card
16	DC_IRIS
17	P-IRIS and Switch Circuit
18	Audio and LED
19	CON Board

Rev.	Who	Date	Description
Rev.B	ChenYang	2014-8-11	Initial

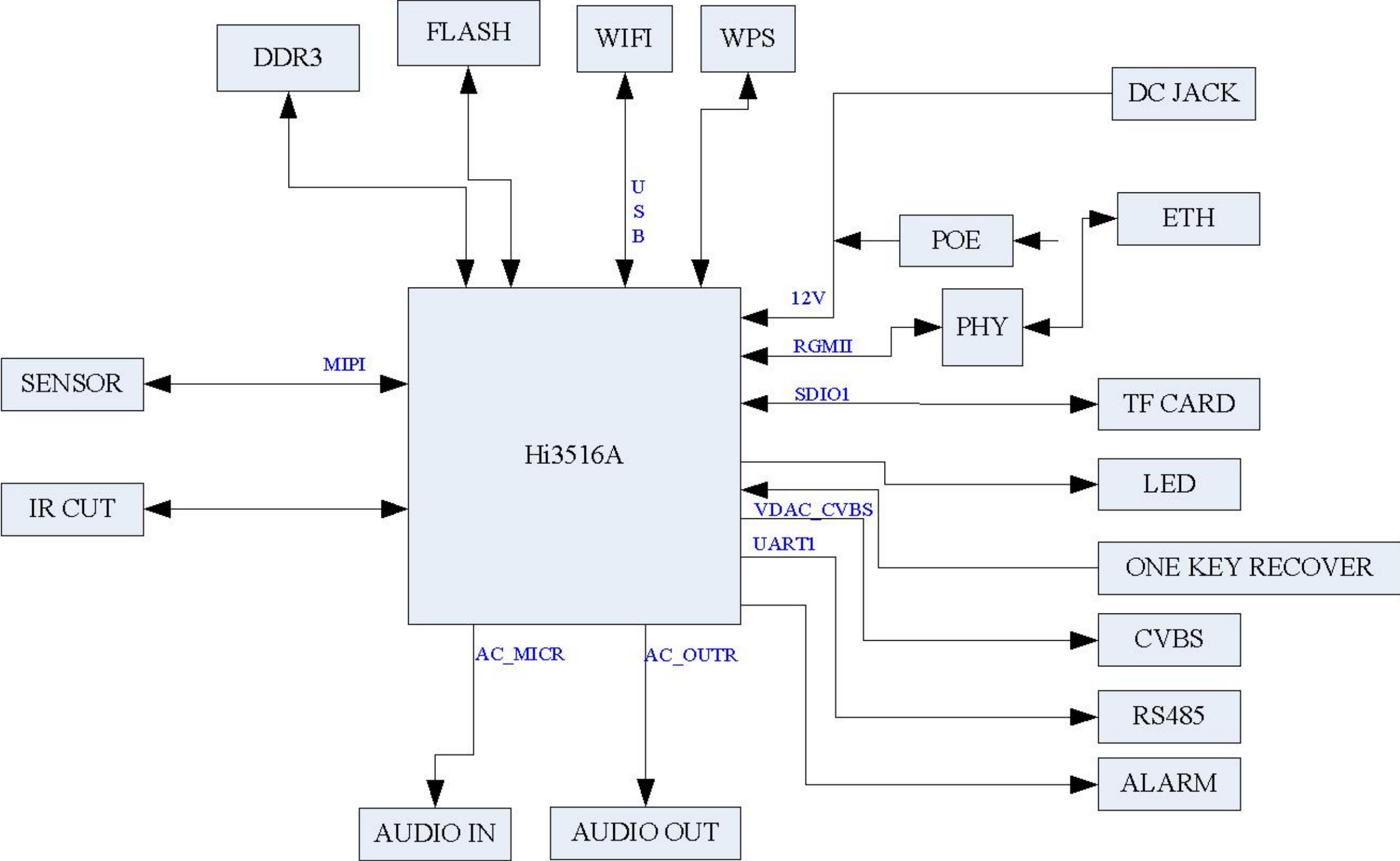
Hi3516AREFB VER.B

The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 1 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

	1	2	3	4	5	6
A	Revision History					
B						
C						
D				The type and specification of the components refer to the BOM		
					NA	
					ECA NO	DATE
	DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
	REVIEWED	LISI XXXXX				
			VER	PART_NUMBER	SHEET 2 OF 19	
			B	03030001	HUAWEI TECH CO.,LTD.	
	1	2	3	4	5	6

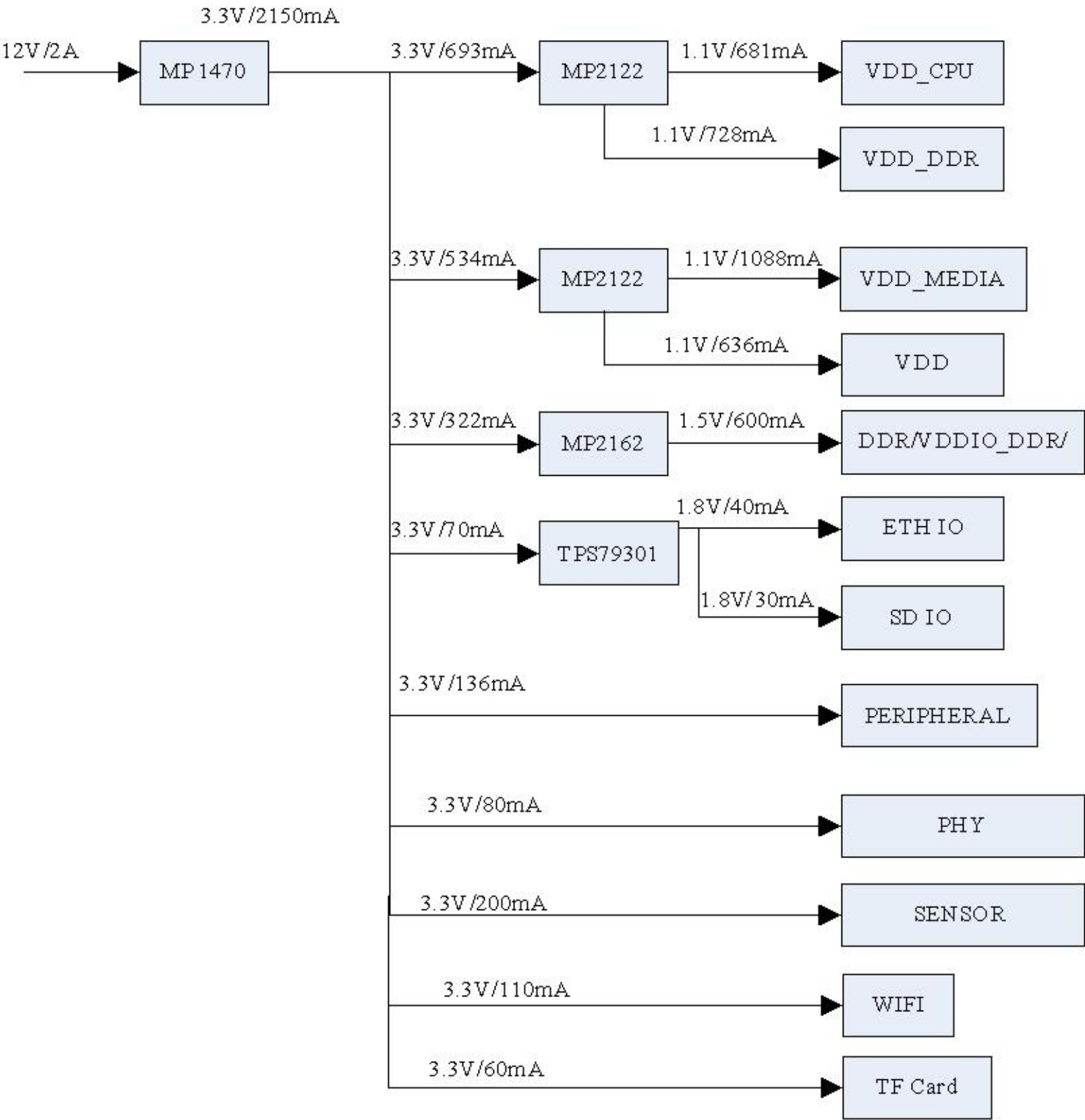
Block Diagram



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 3 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

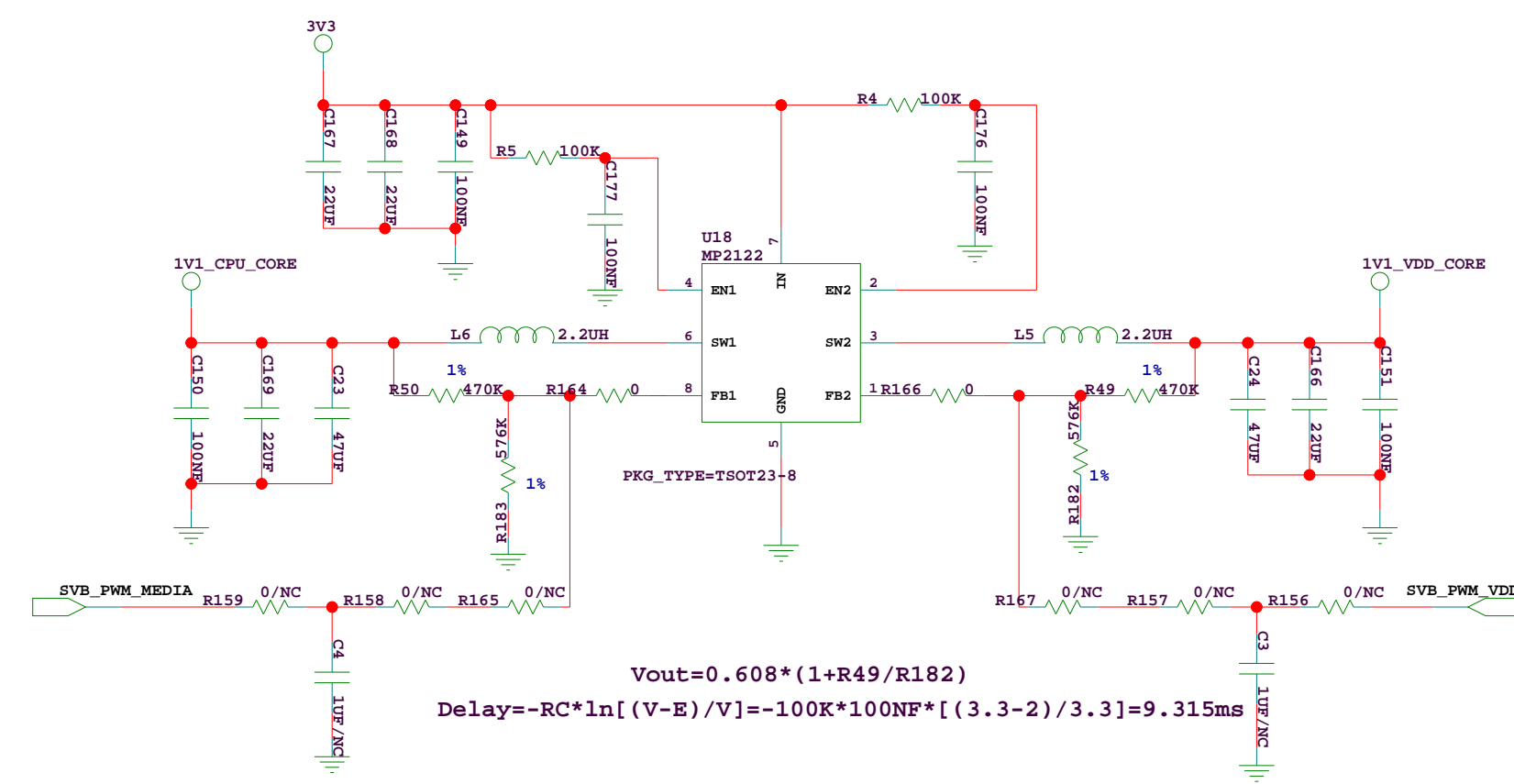
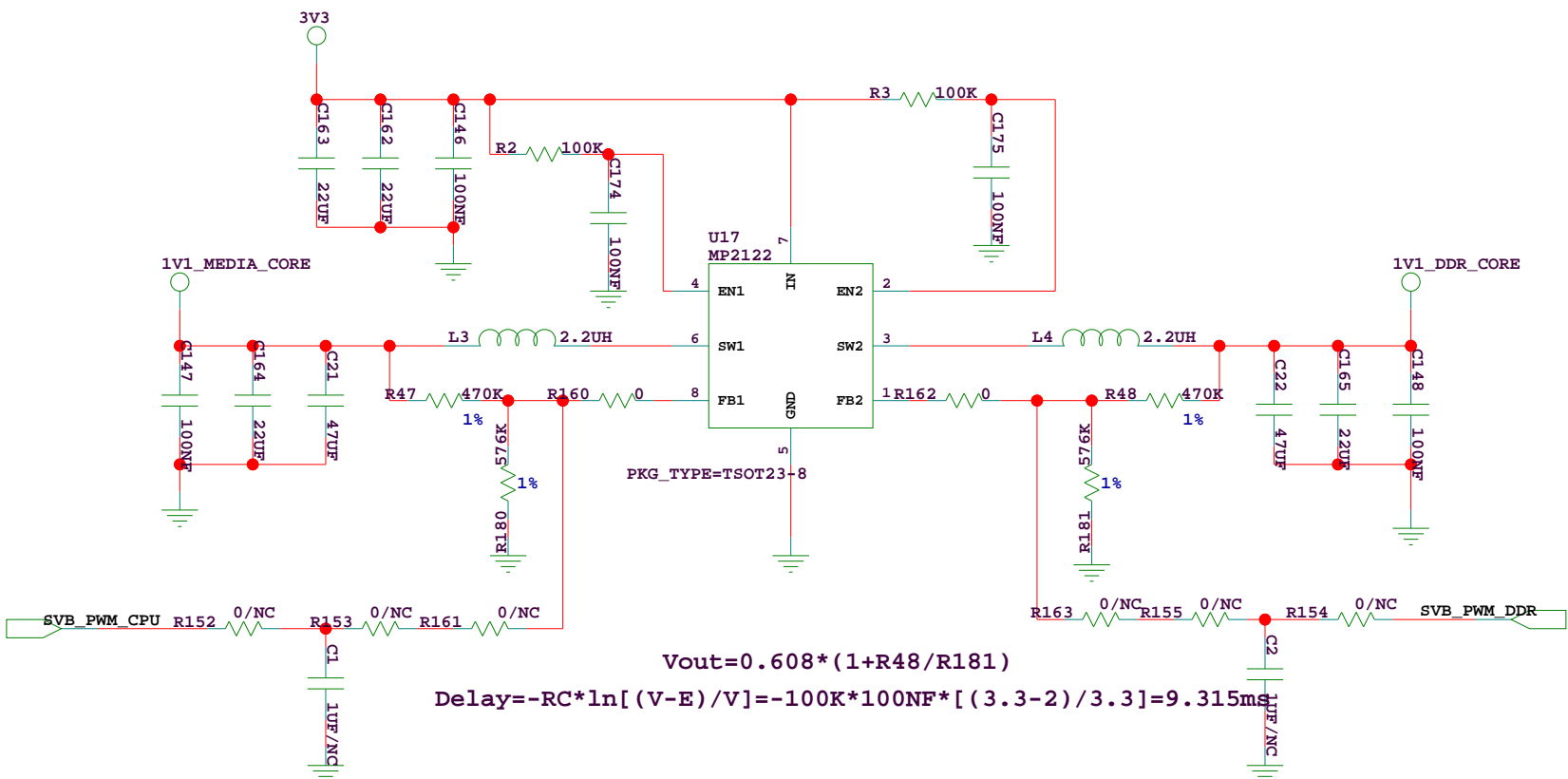
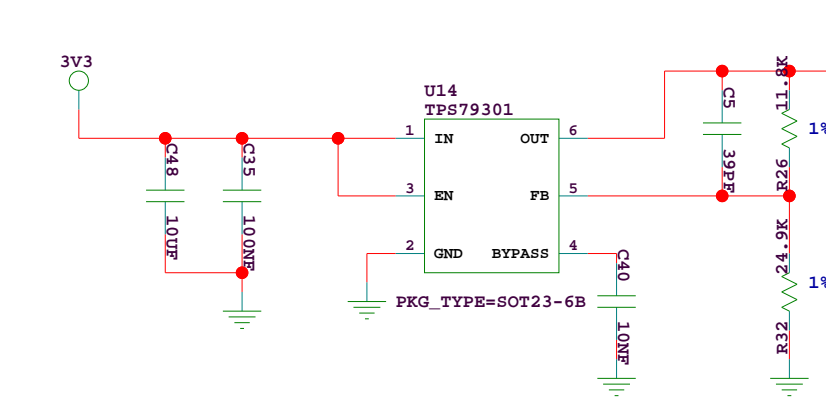
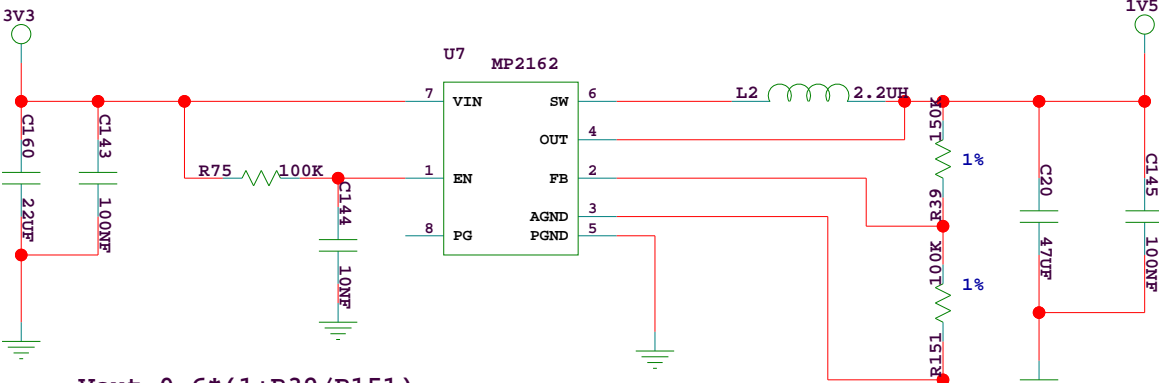
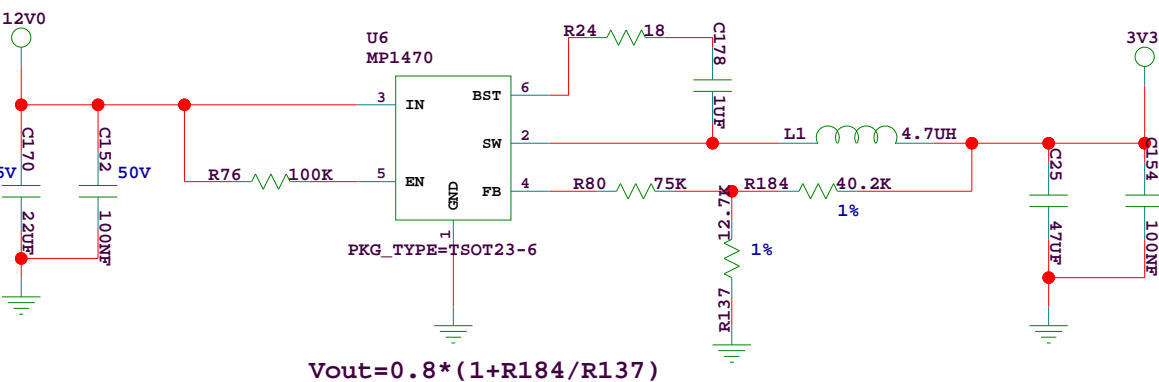
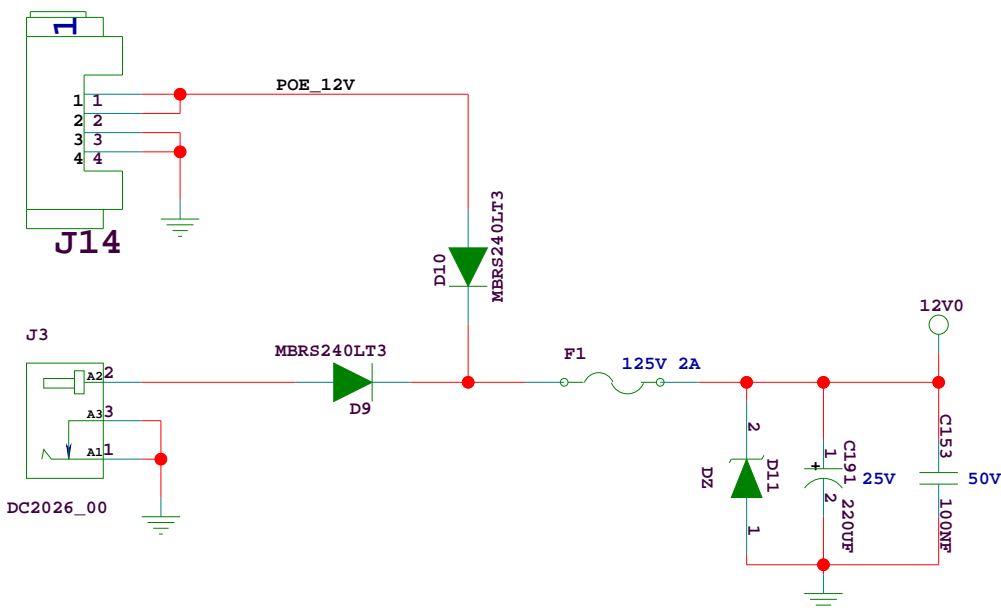
Power tree



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 4 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

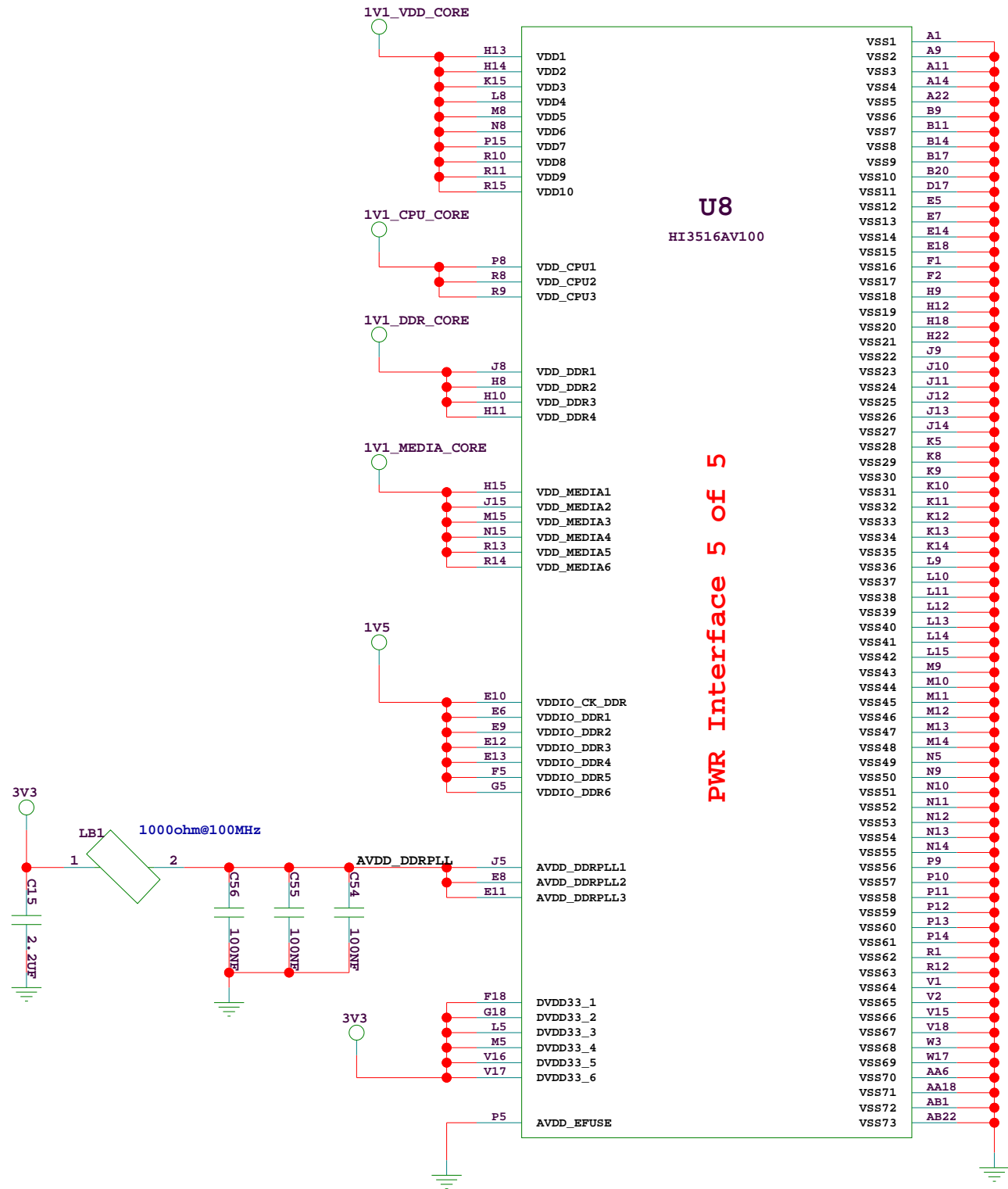
POWER



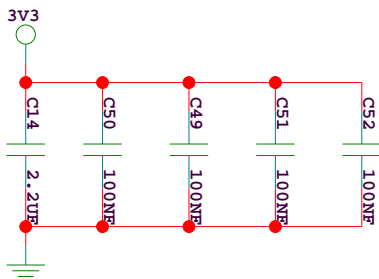
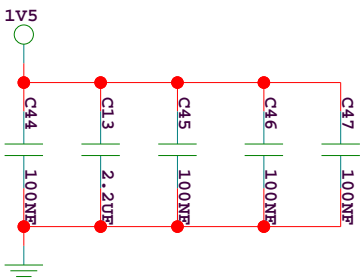
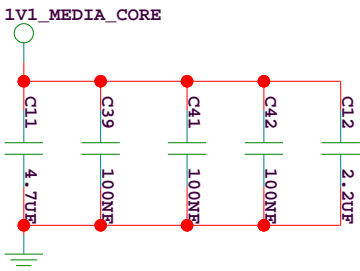
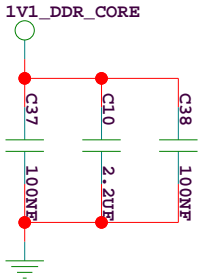
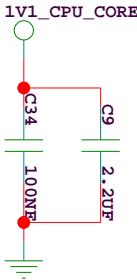
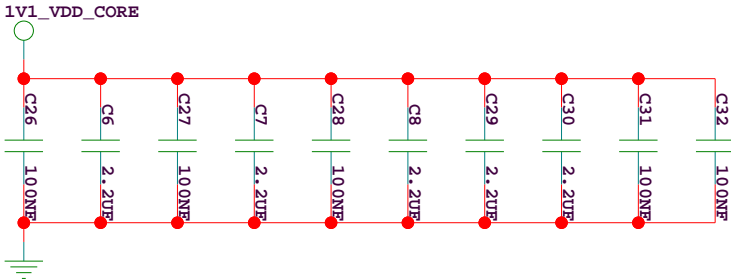
The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX	VER	PART_NUMBER	SHEET 5 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

Power of Hi3516A



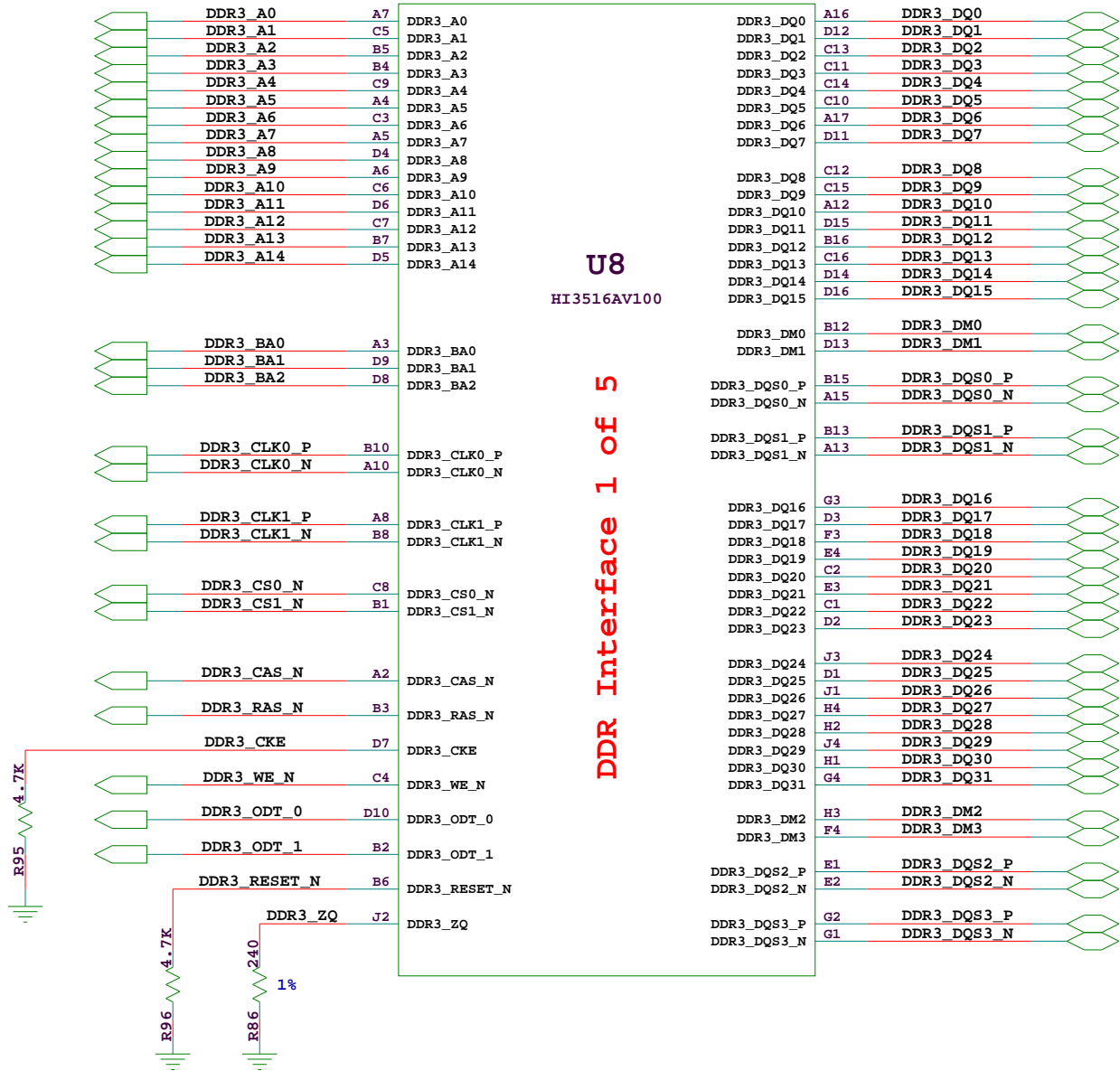
PWR Interface 5 of 5



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 6 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

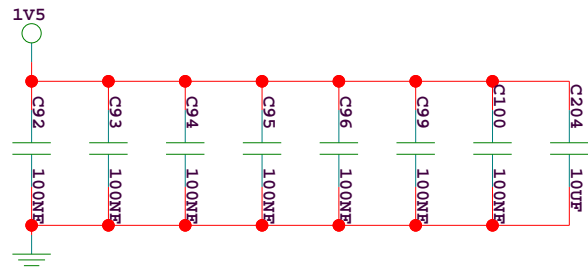
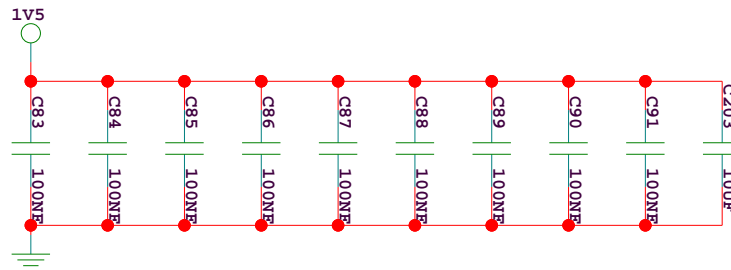
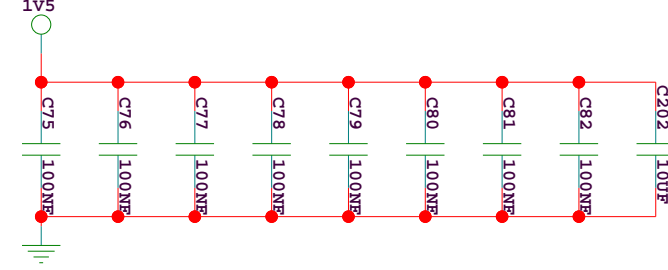
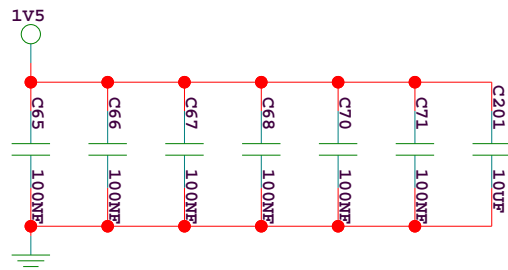
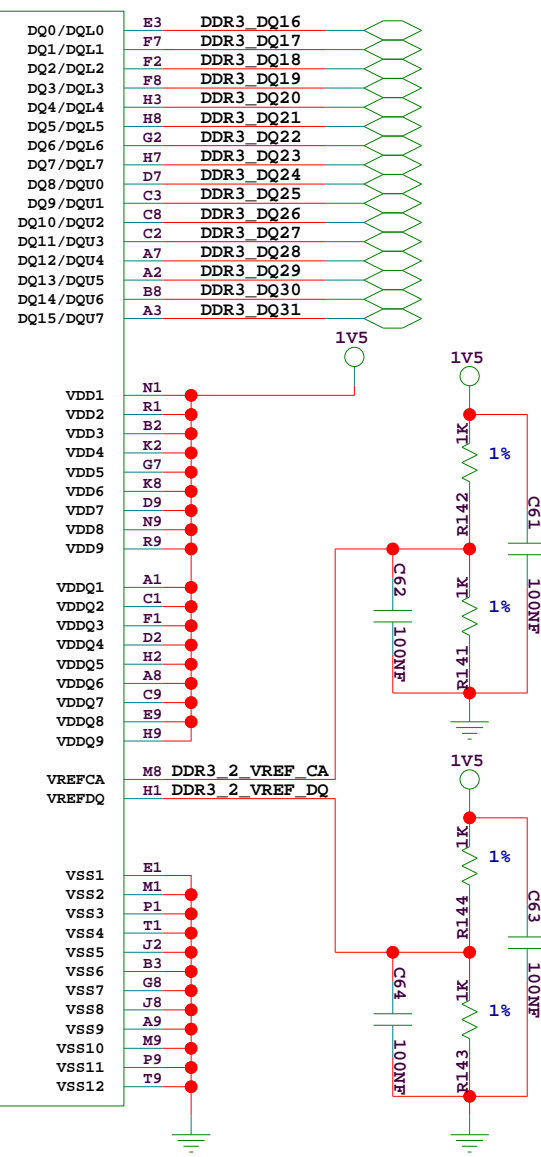
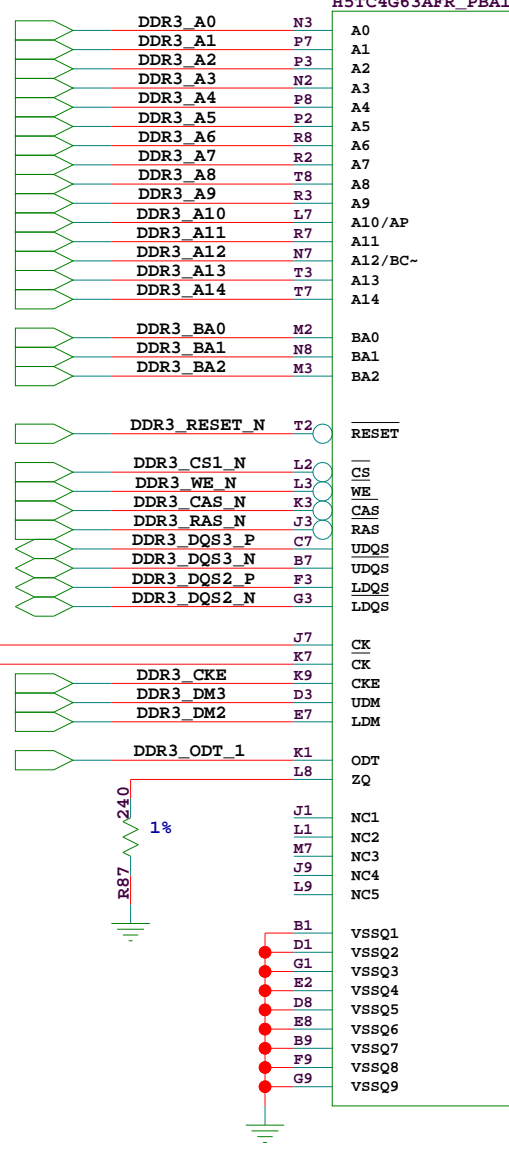
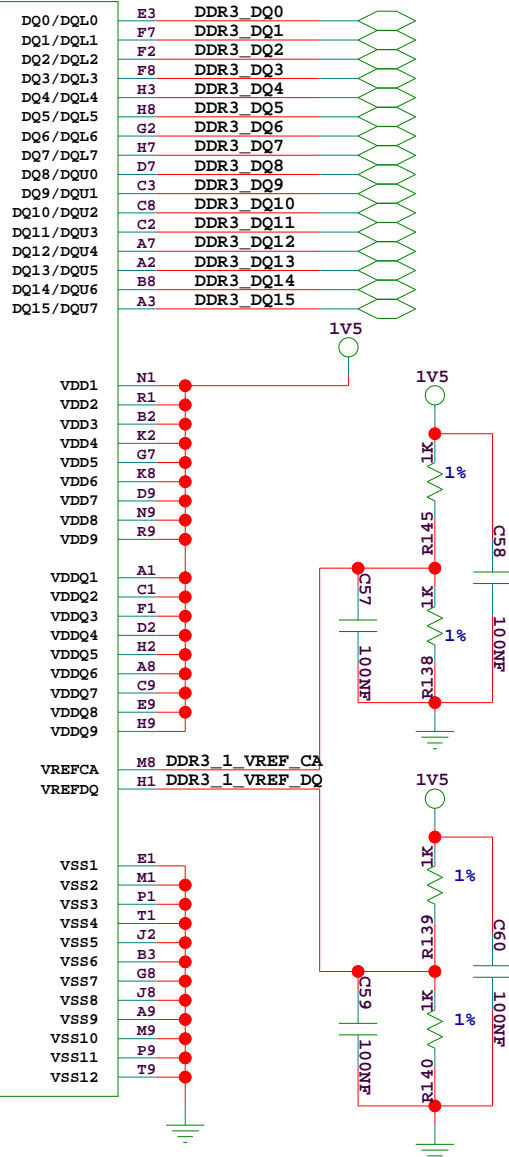
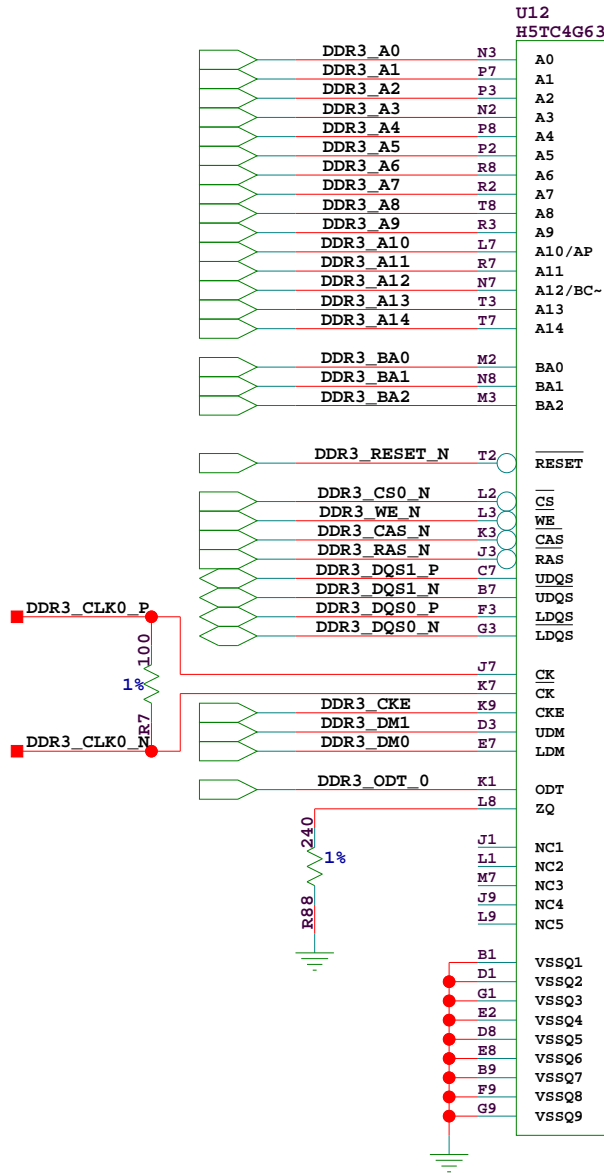
DDR of Hi3516A



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 7 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

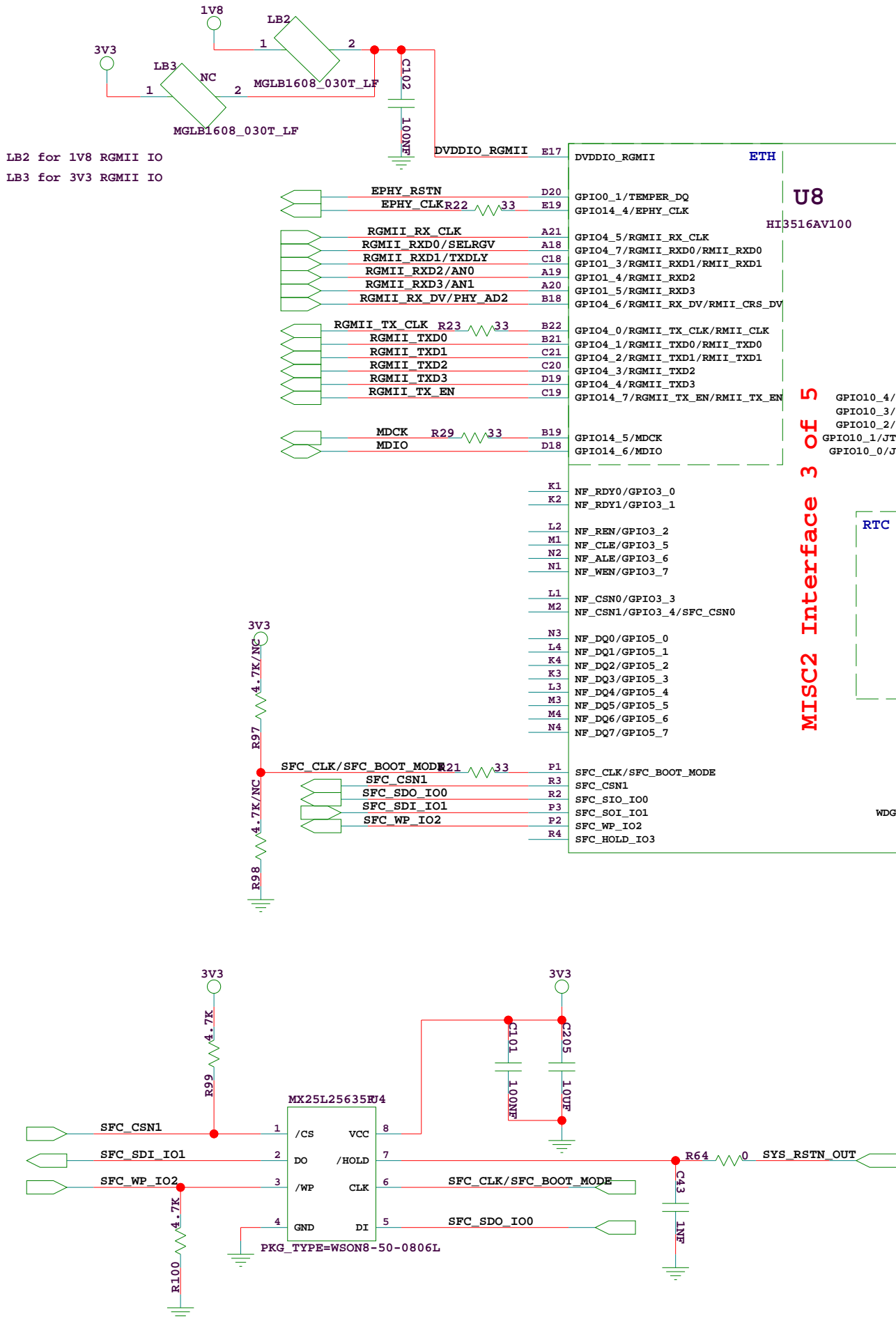
DDR



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 8 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

Sys of Hi3516A



SFC_BOOT_MODE(internal pull down)
0:3Byte Mode
1:4Byte Mode(default)

POR_SEL(internal pull down)
0: Enable POR
1: Disable POR

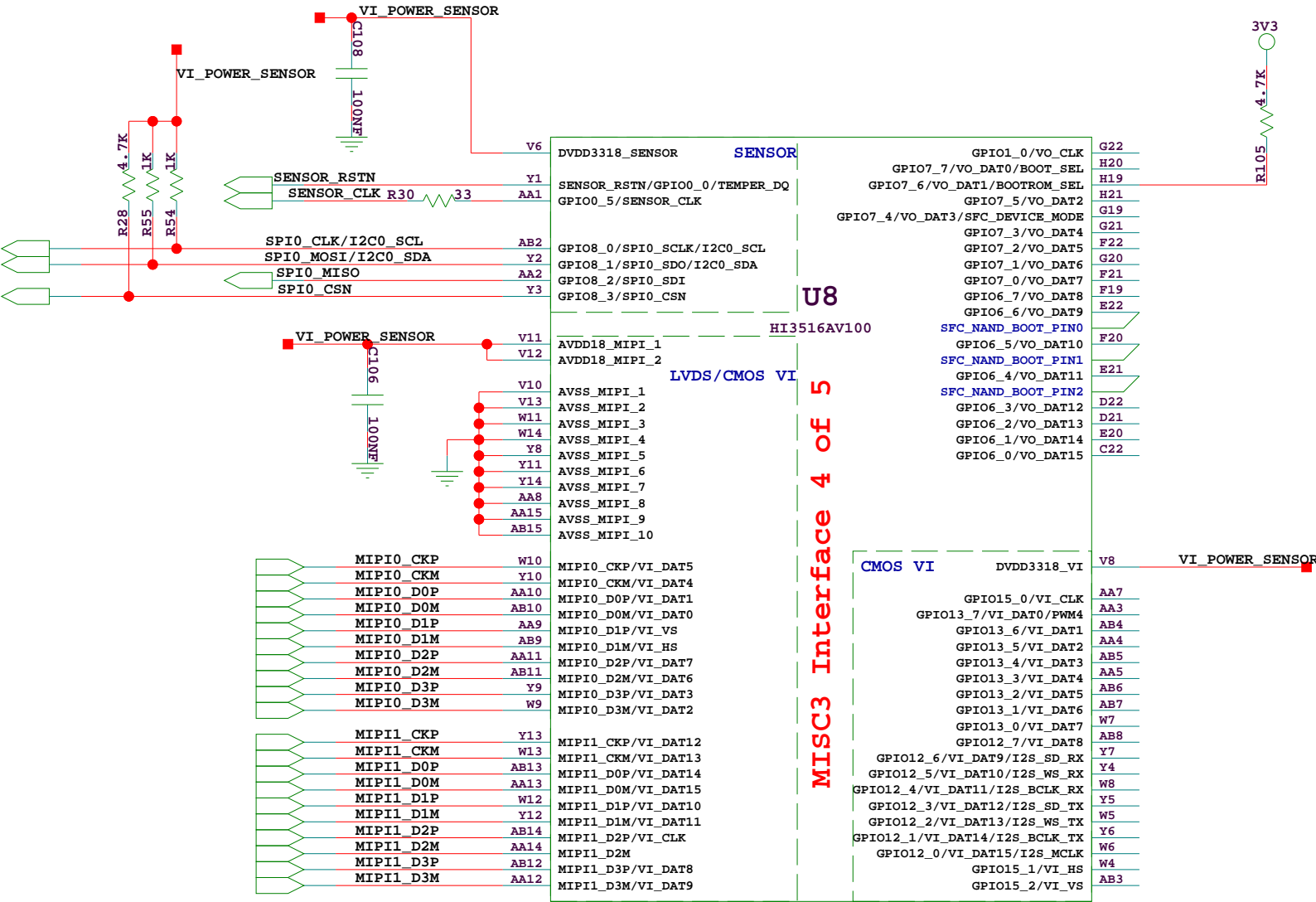
TEST_MODE(internal pull down)
0: Normal
1: Test

JTAG_EN(internal pull down)
0: Disable JTAG
1: Enable JTAG

The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 9 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

VIVO of Hi3516A



BOOT_SEL(internal pull down)

- 0: SPI FLASH
- 1: NAND FLASH

BOOTROM_SEL(internal pull down)

- 0: Disable BOOTROM
- 1: Enable BOOTROM

SFC_DEVICE_MODE(internal pull down)

- 0: Spi Nor flash
- 1: Spi Nand flash

SFC_NAND_BOOT_PIN[1:0](default value is 01)

- 00: 0bit ecc
- 01: 8bit ecc
- 10: 16bit ecc
- 11: 24bit ecc

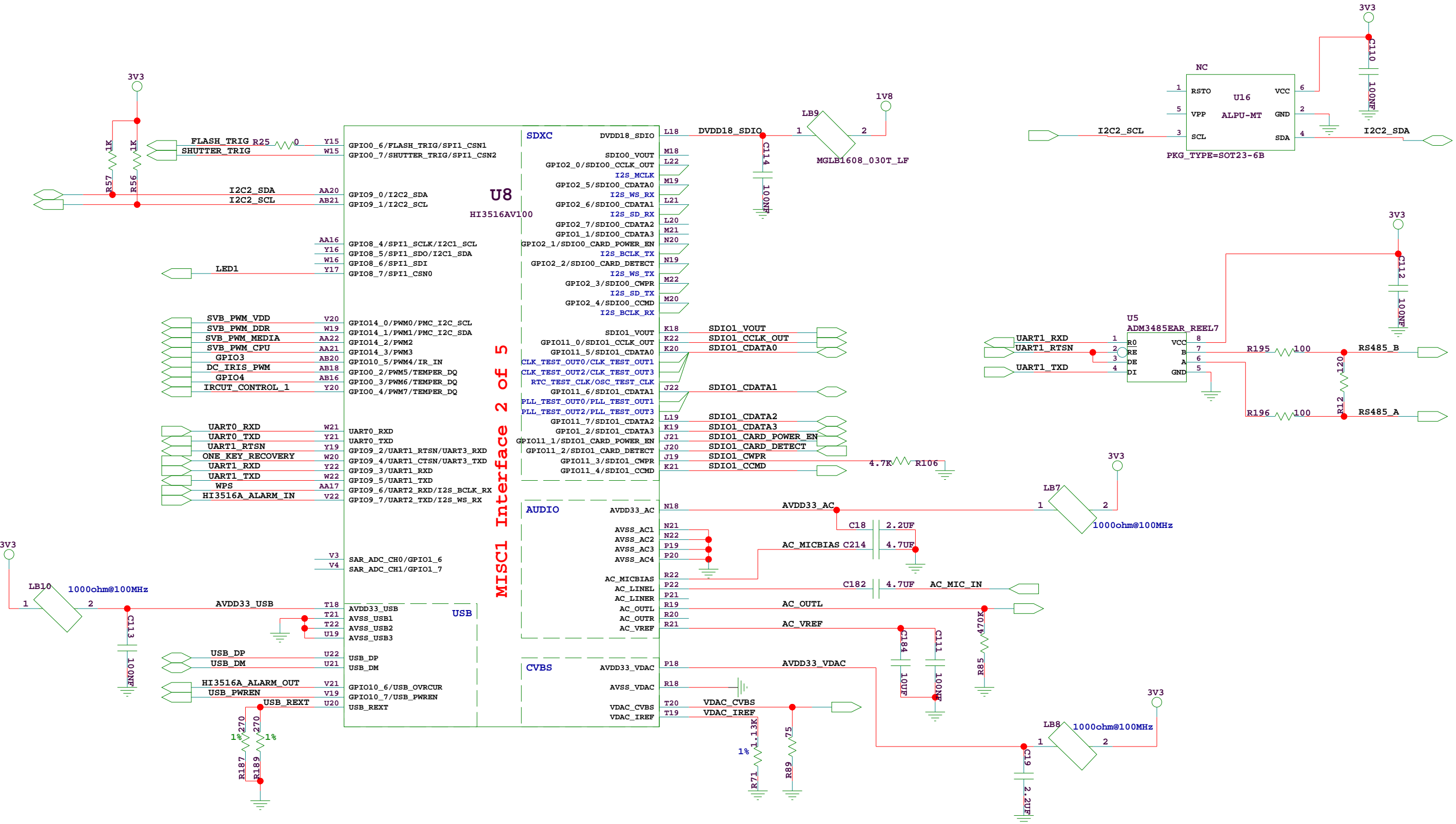
SF_NAND_BOOT_PIN2(internal pull down)

- 0: page size is 2kB
- 1: page size is 4kB

The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 10 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

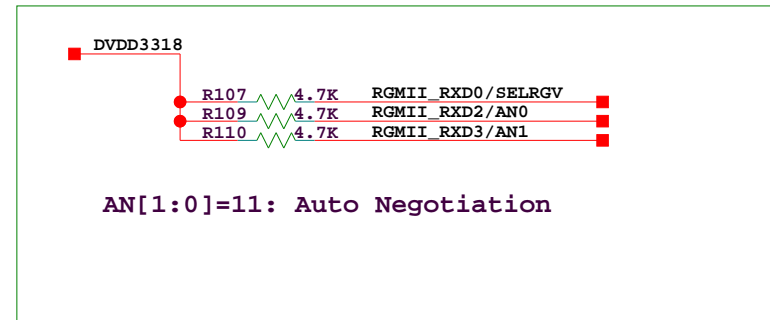
Peripheral of Hi3516A



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 11 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

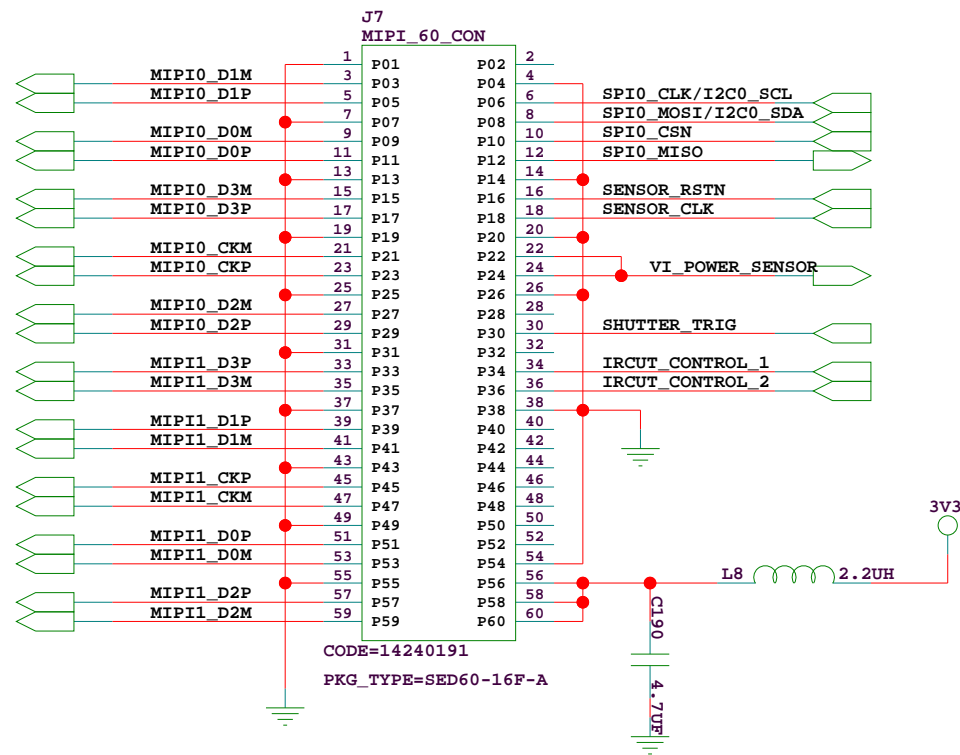
D



				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 12 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD	

HUAWEI TECH CO.,LTD

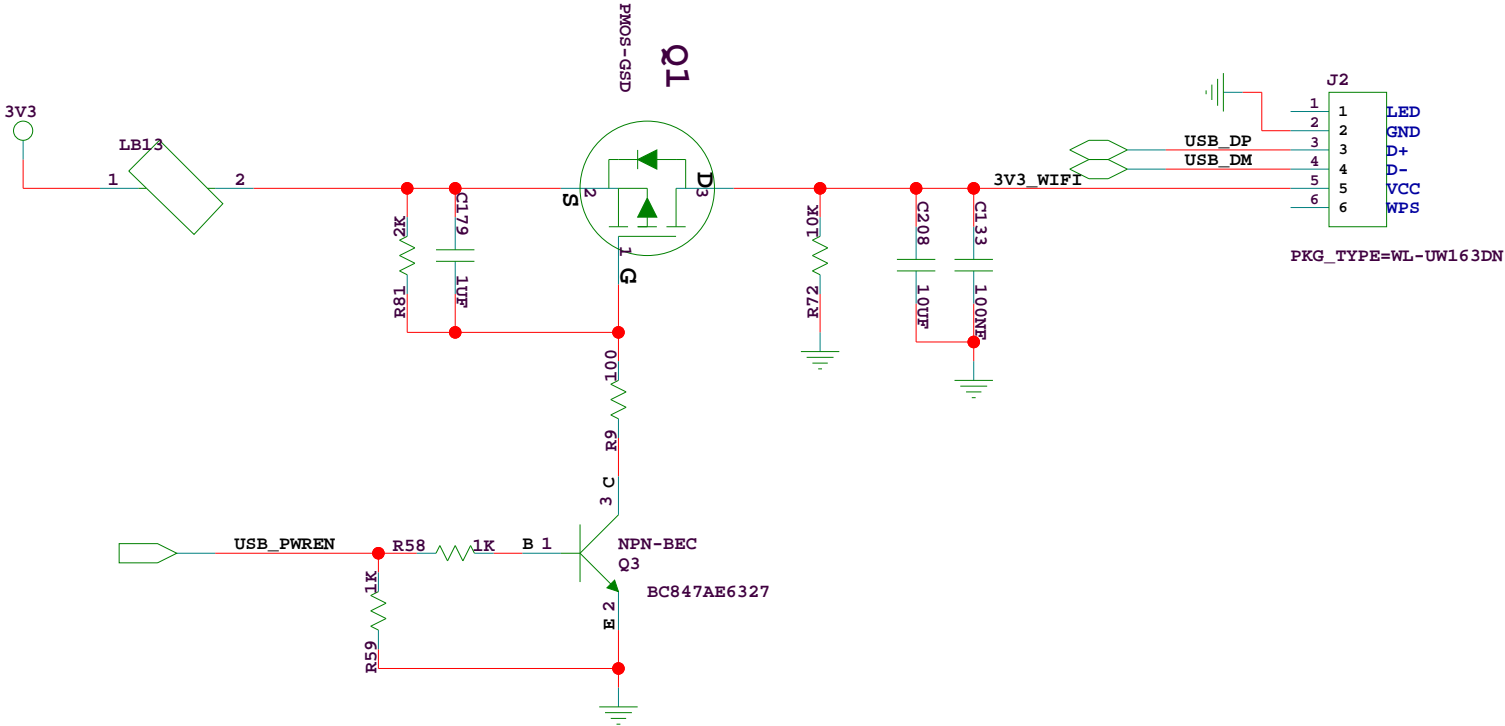
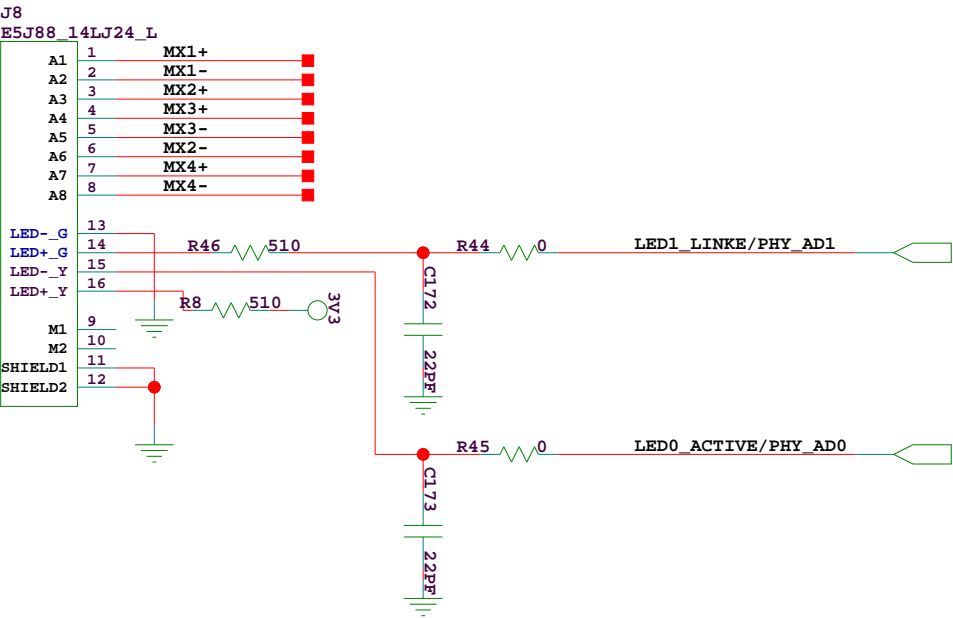
Sensor Connector



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 13 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

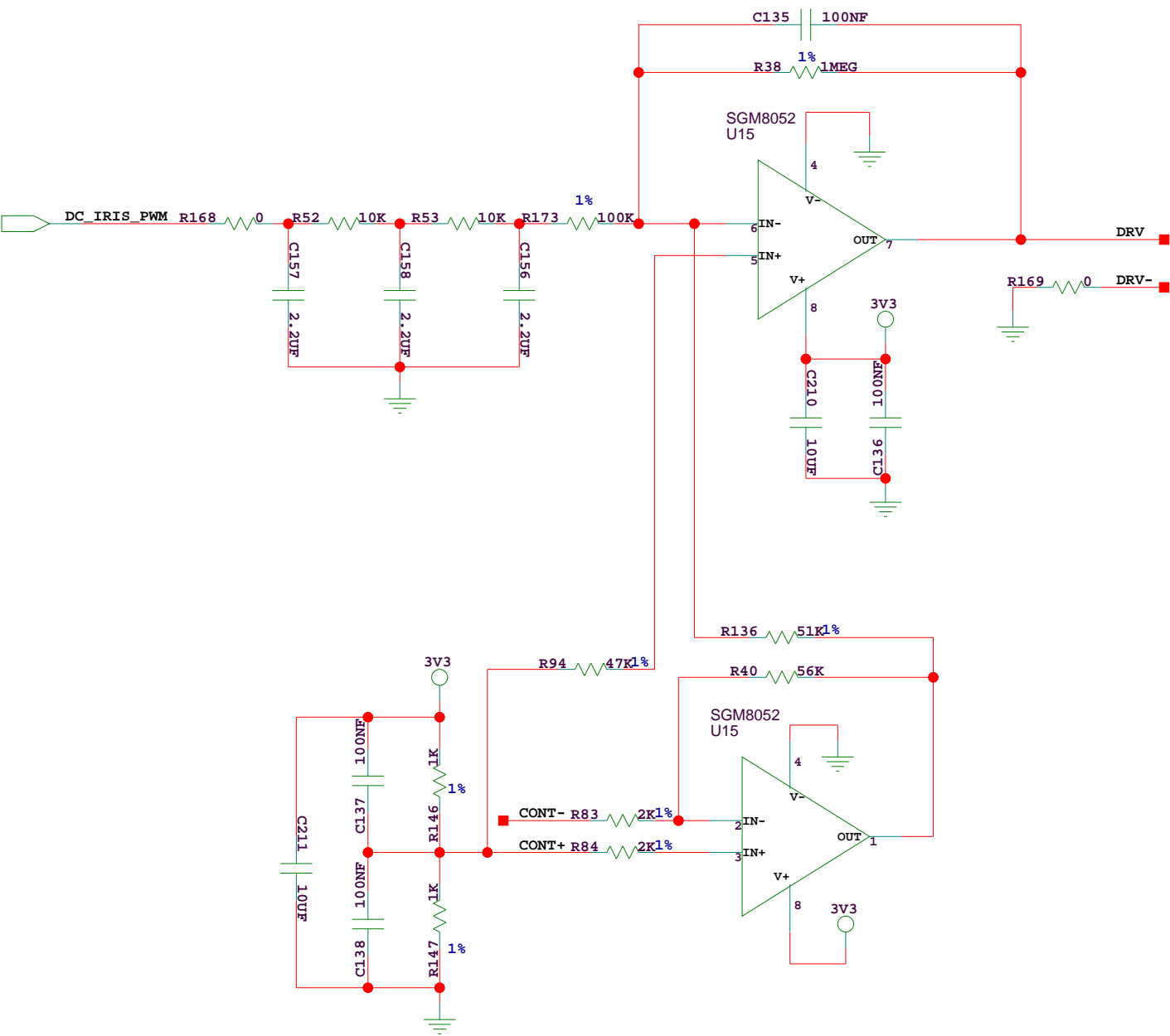
RJ45 and WIFI



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 14 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

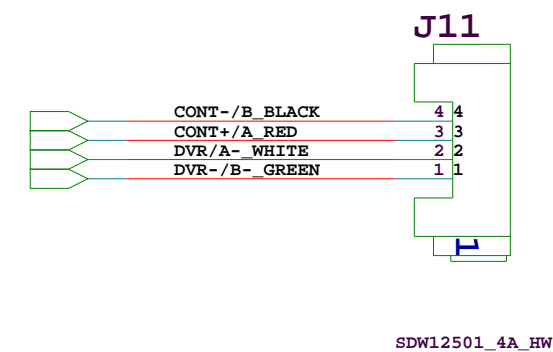
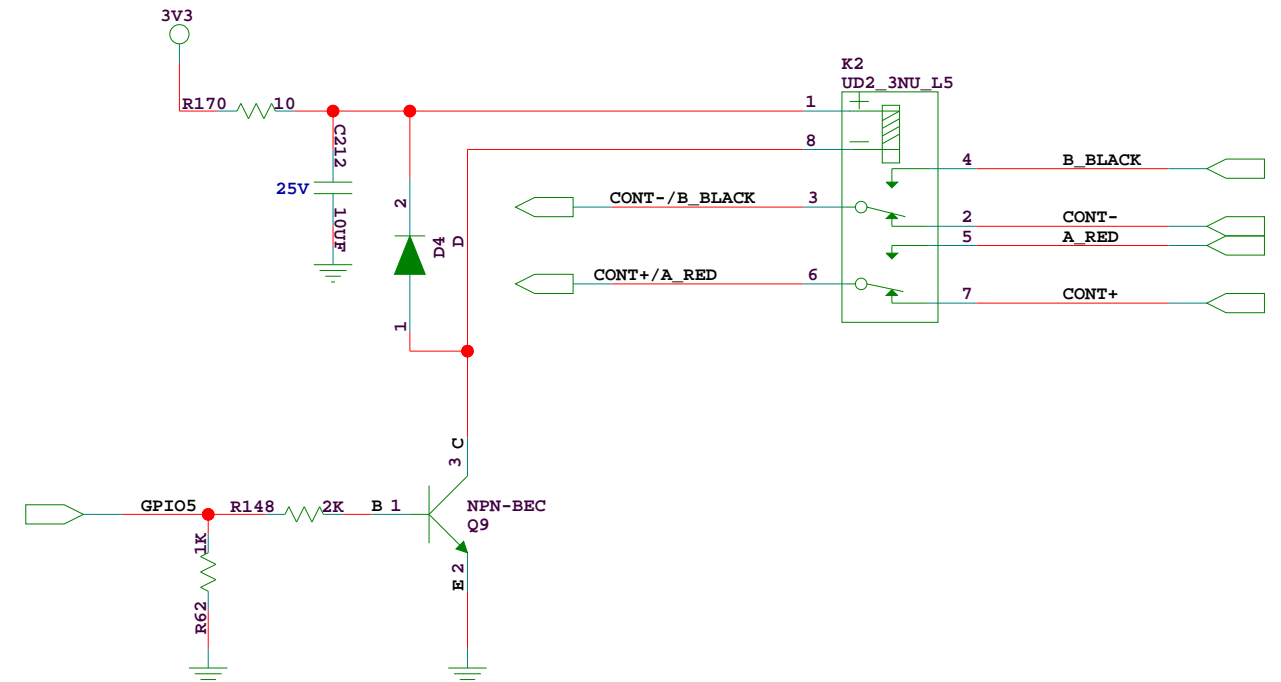
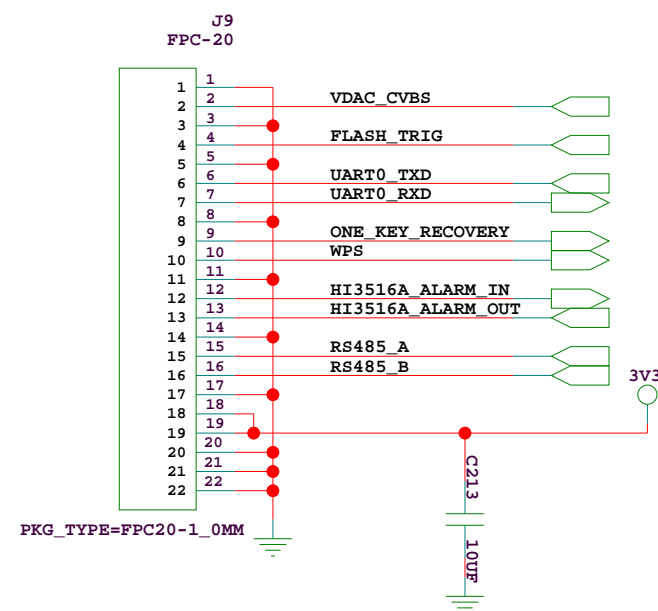
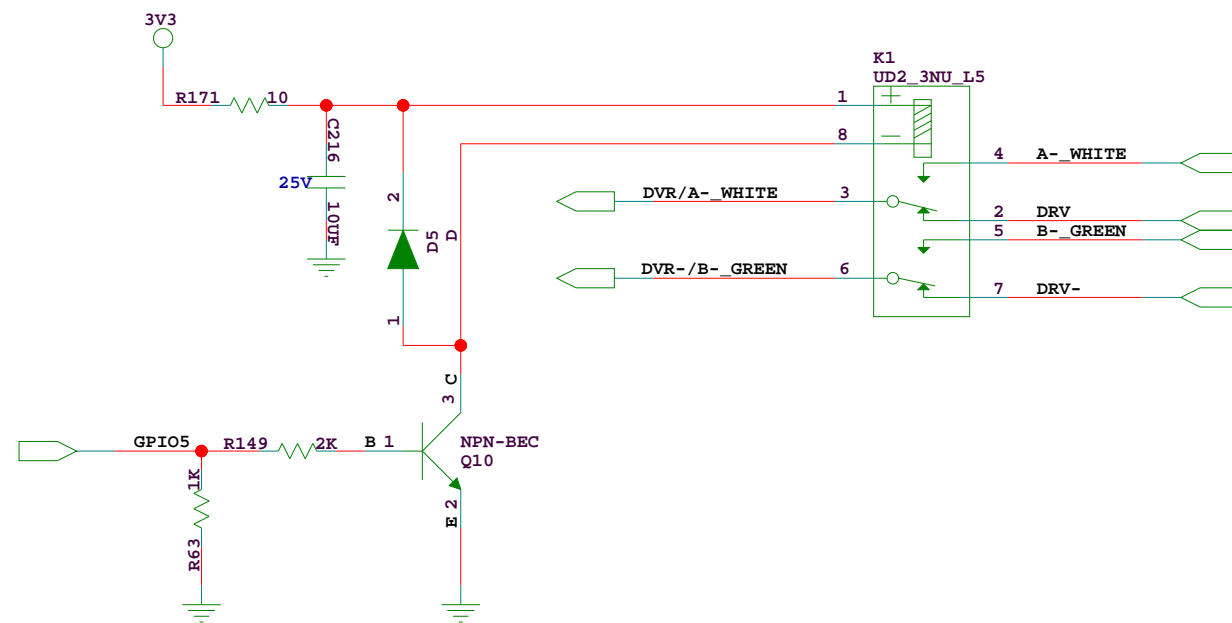
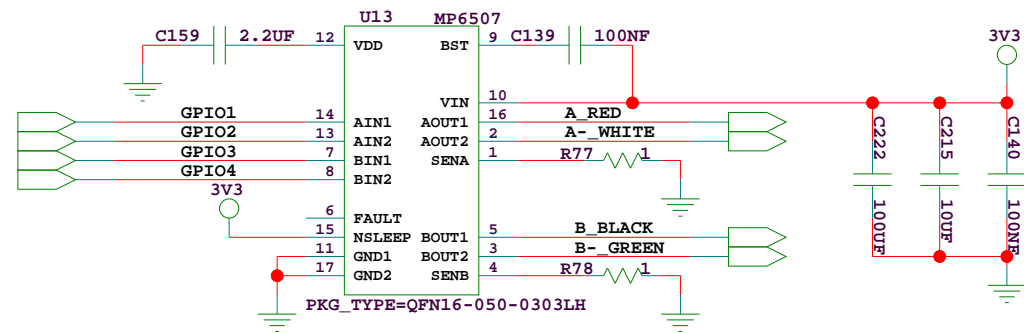
DC_IRIS



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 16 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

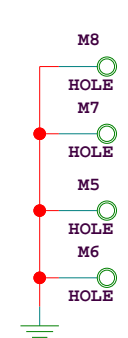
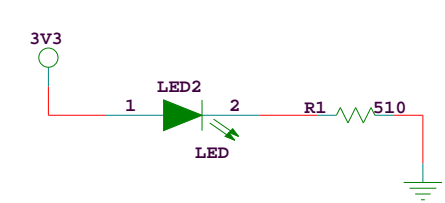
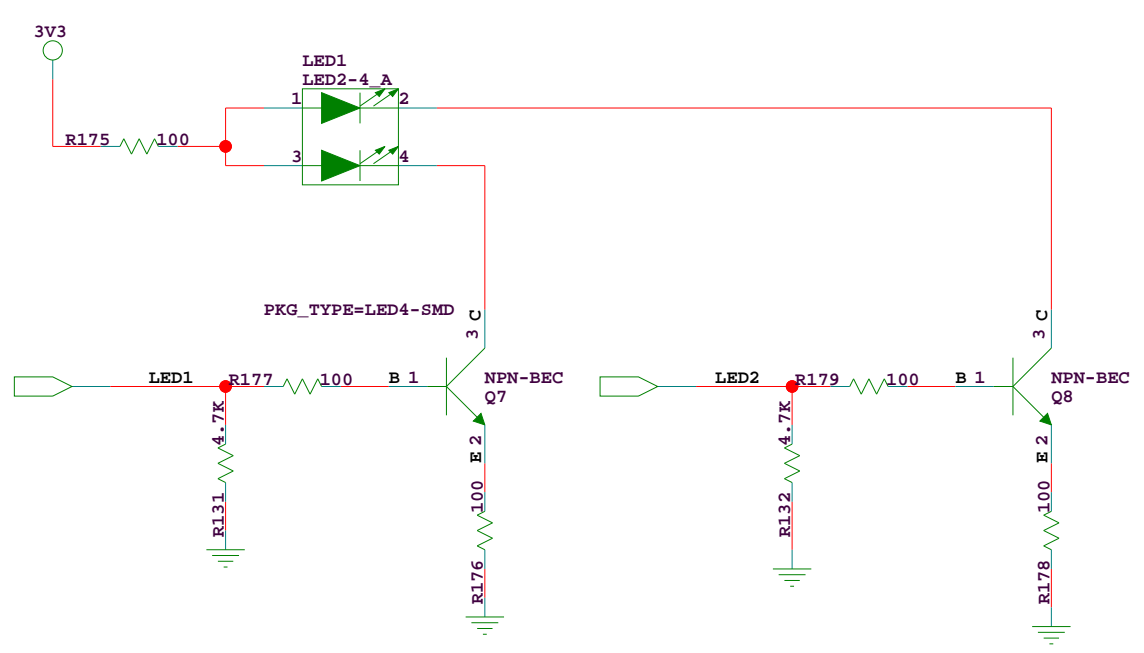
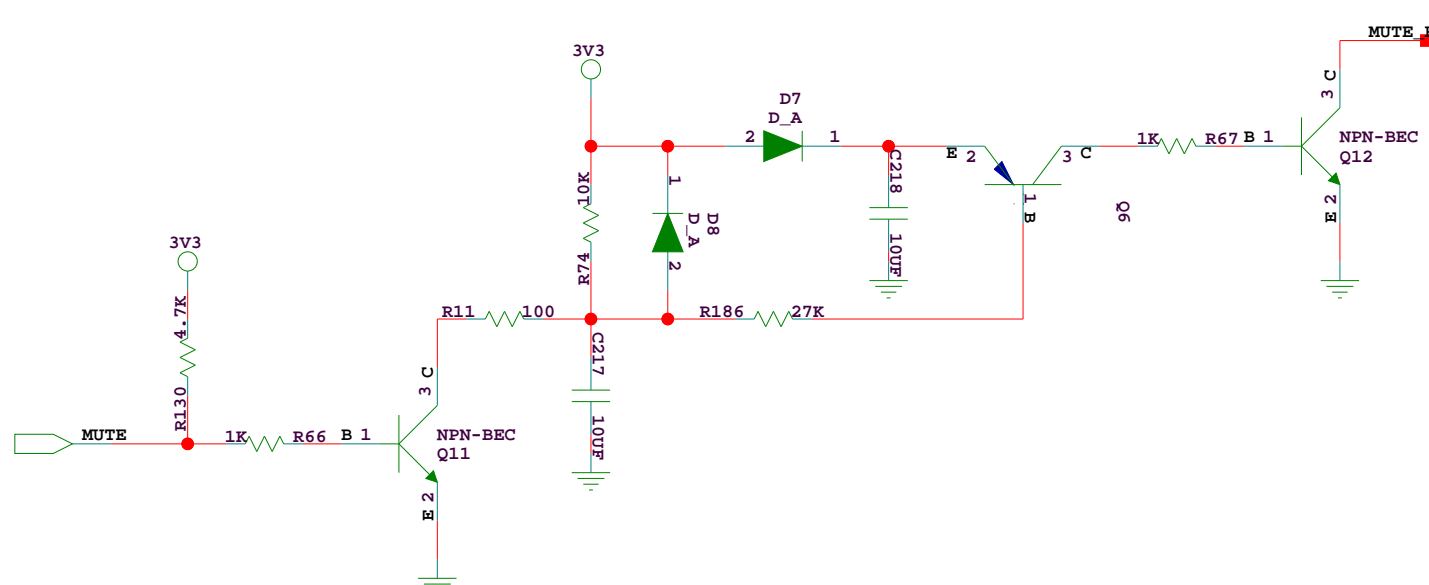
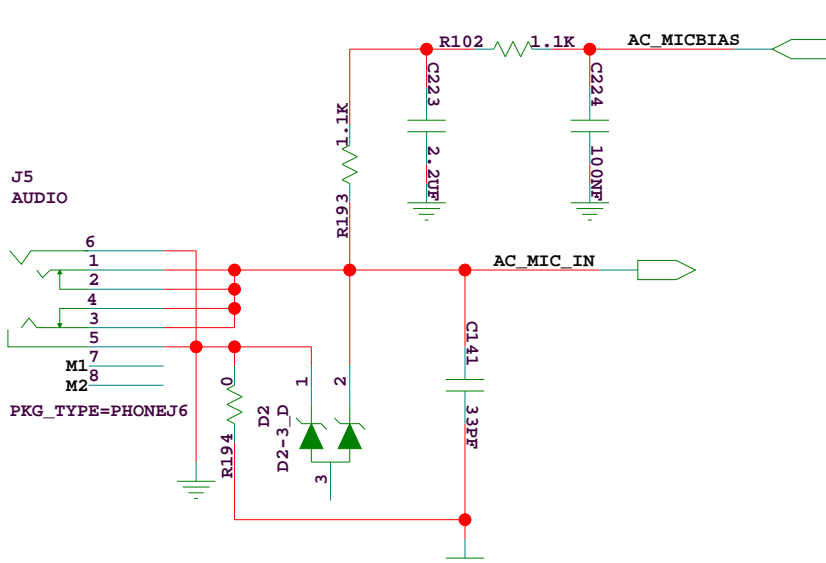
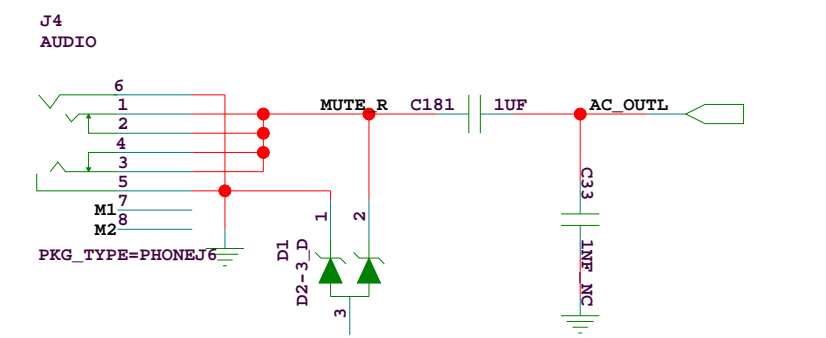
P-IRIS and Switch Circuit



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 17 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

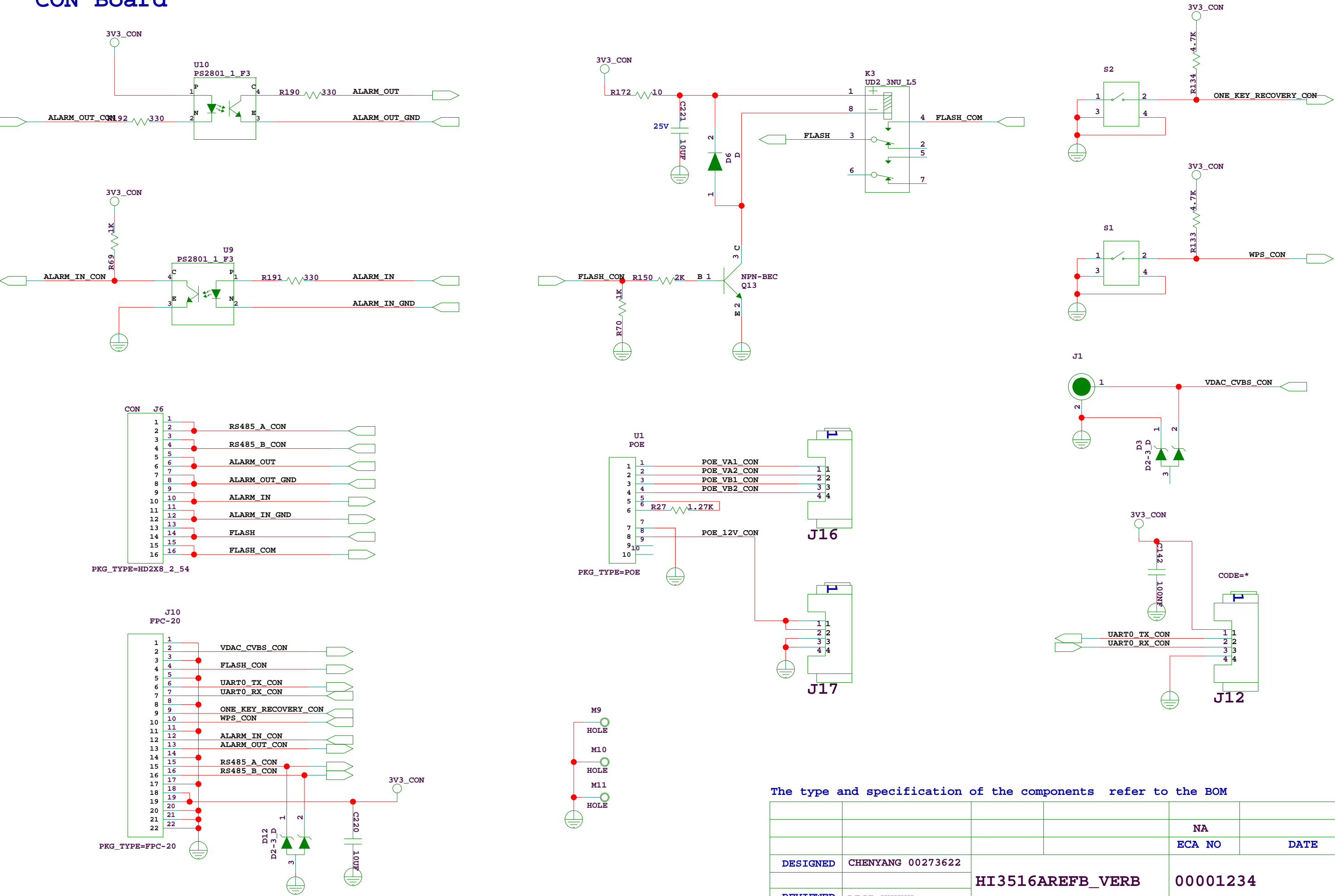
Audio and LED



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 18 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	

CON Board



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	CHENYANG 00273622	HI3516AREFB_VERB		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 19 OF 19	
		B	03030001	HUAWEI TECH CO.,LTD.	