

LG FHD

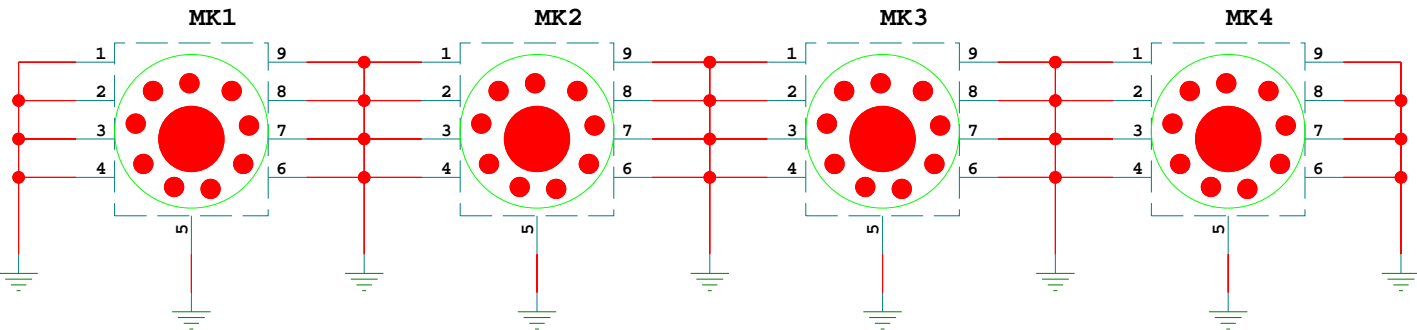
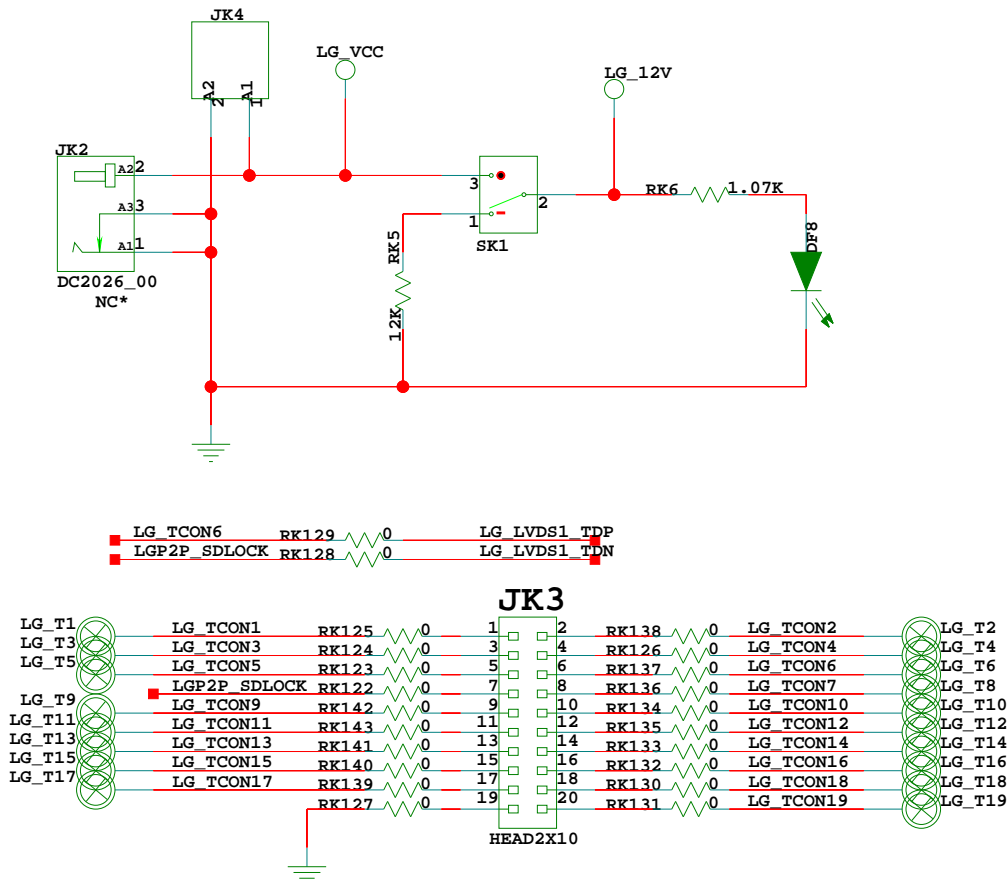
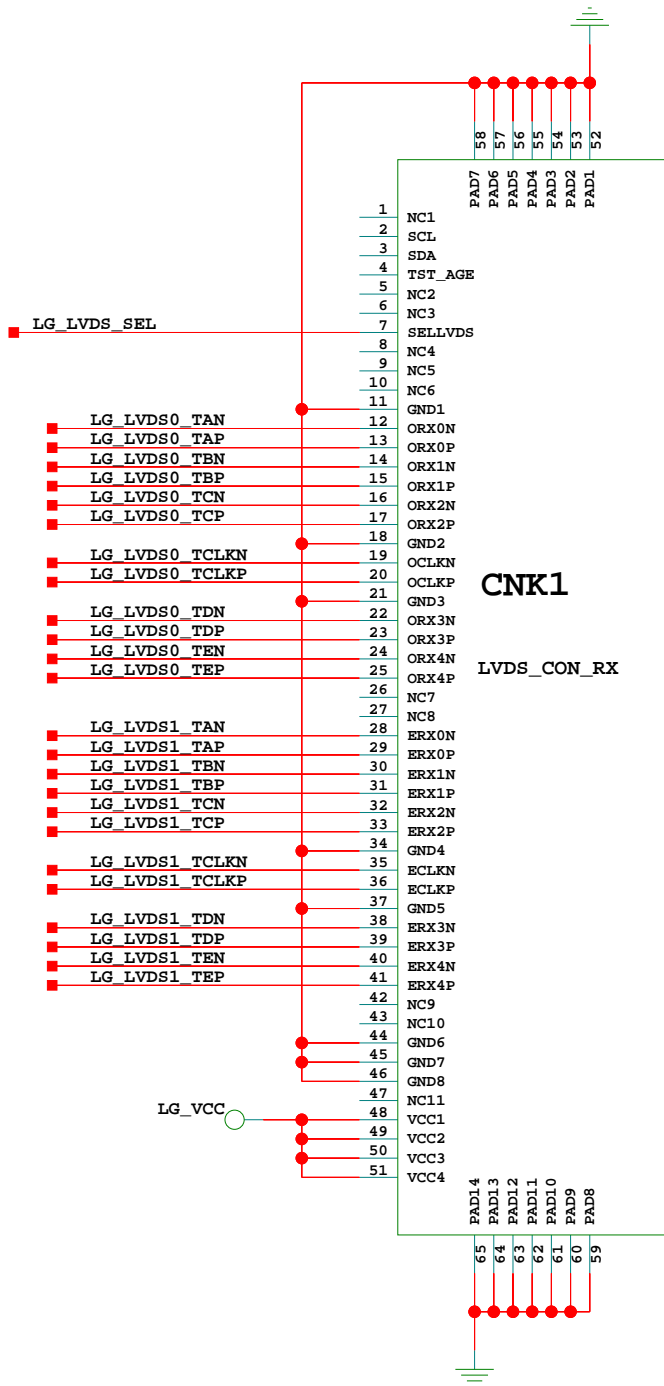
2018.10.24

HIDPTTCON Schematic Circuit Version and Page Information

Page Comment			
1	Information indicator	2	LGD EPI RX
3	PMU POWER SUPPLY (RT6943)	4	LGD TX
5	RT8939	6	RT6504

The type and specification of the components refer to the BOM					
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HI3751V550CON		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 1 OF 21	
		A	03030001	HUAWEI TECH CO.,LTD.	

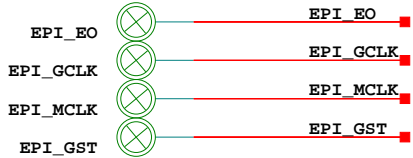
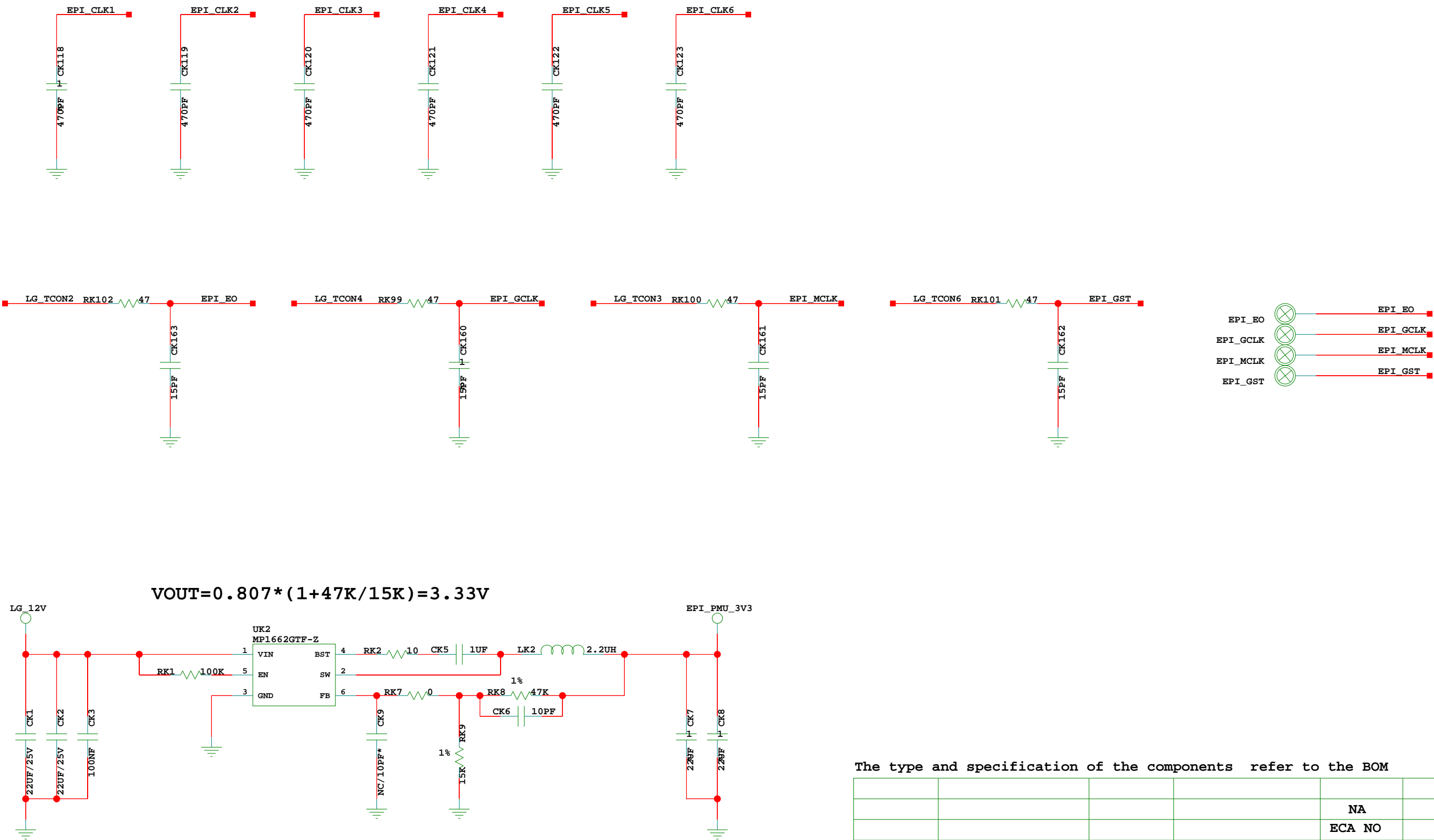
LVDS\_ RX



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	Schematic1		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 1 OF 1	
		A	03030001	HUAWEI TECH CO.,LTD.	

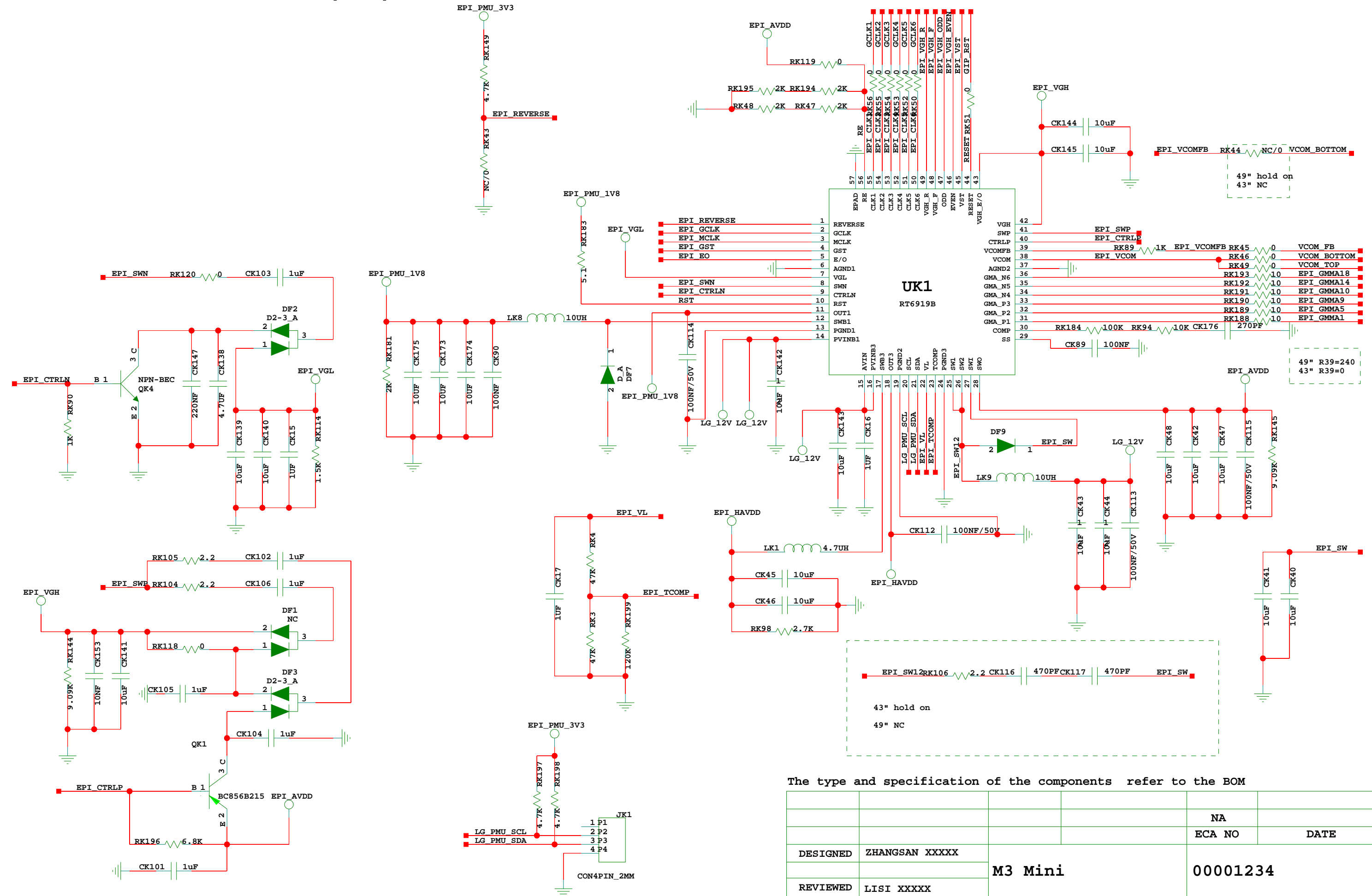
MINI TX Connector FOR LG



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 47 OF 47	
		A	03030001	HUAWEI TECH CO.,LTD.	

# PMU RT6919 FOR EPI(LG)

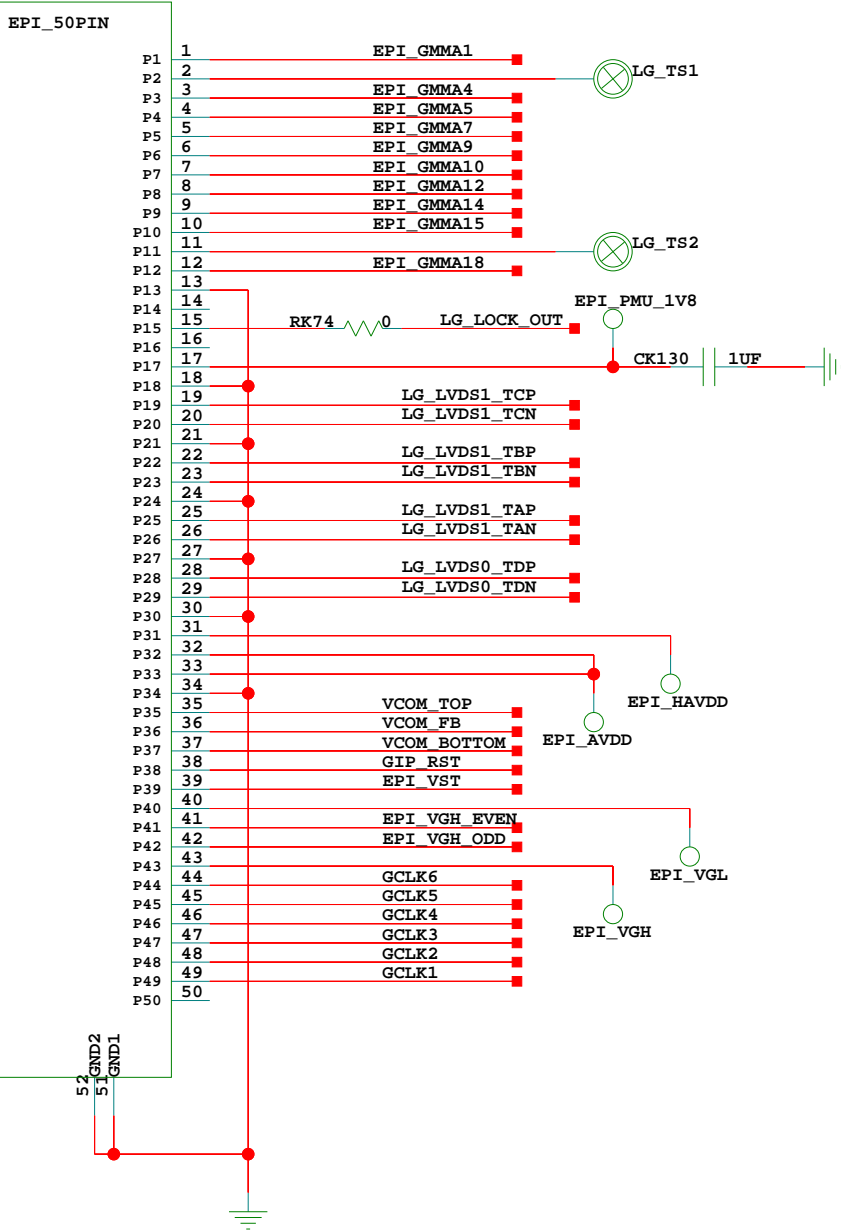


The type and specification of the components refer to the BOM

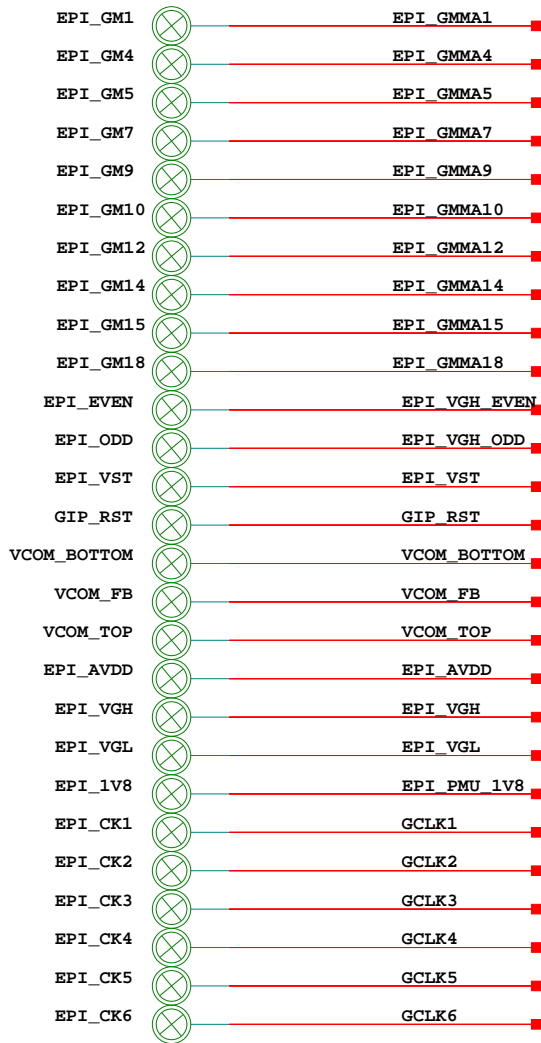
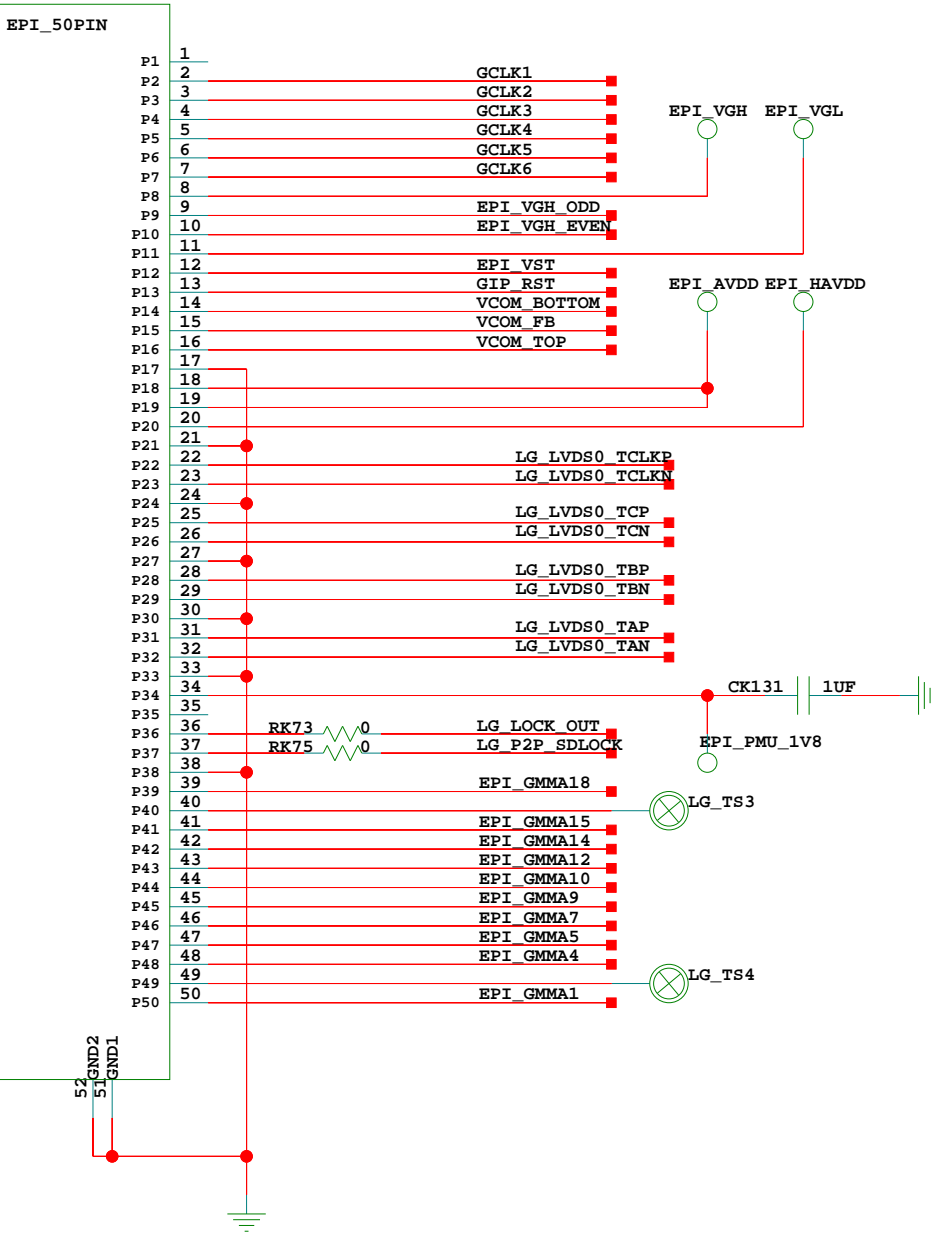
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 46 OF 46	
		A	03030001	HUAWEI TECH CO.,LTD.	

EPI TX Connector FOR LG

CNK5 XL



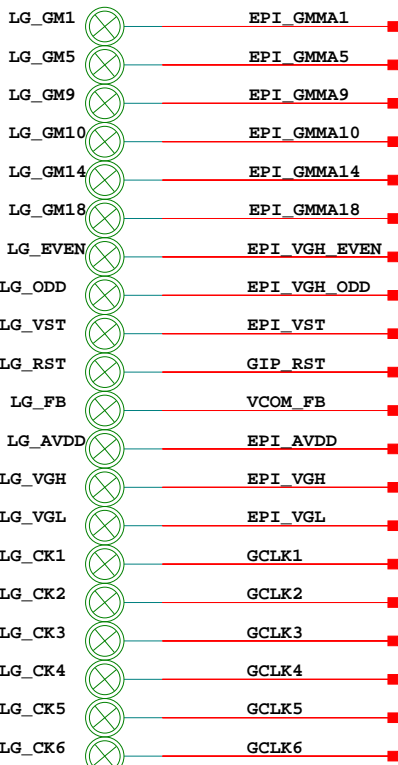
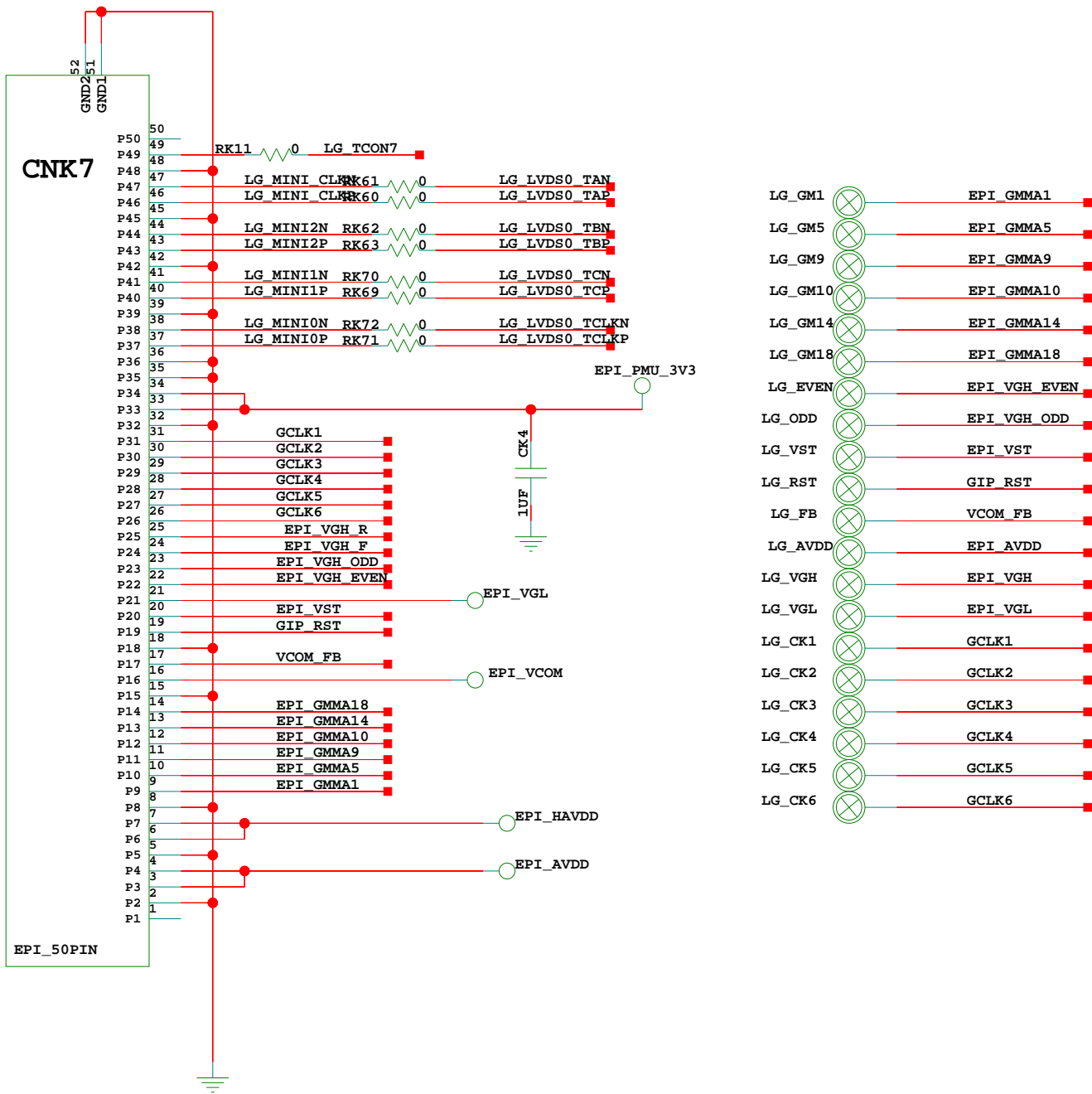
CNK6XR



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 48 OF 48	
		A	03030001	HUAWEI TECH CO.,LTD.	

MINI TX Connector FOR LG



The type and specification of the components refer to the BOM					
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 48 OF 48	
		A	03030001	HUAWEI TECH CO.,LTD.	



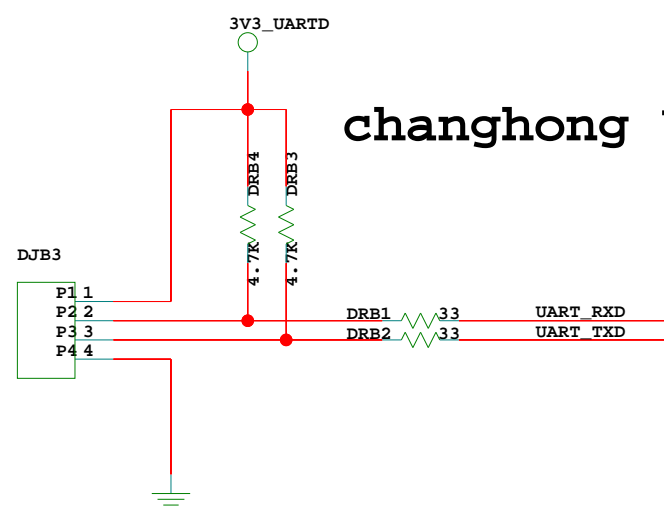
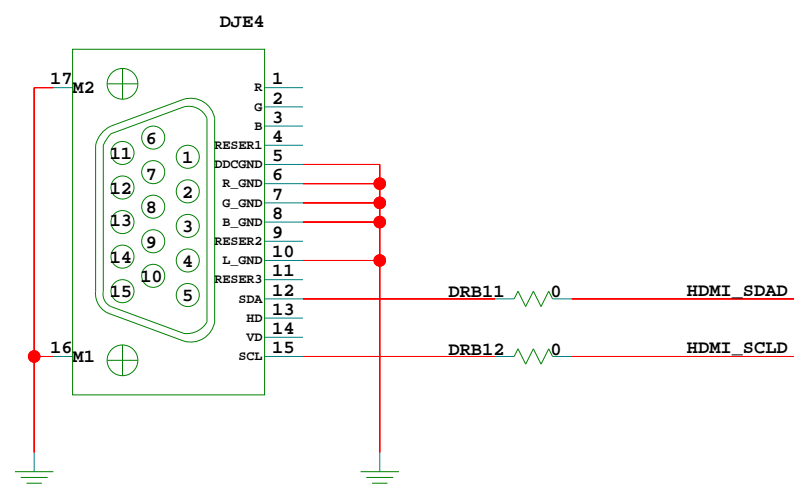
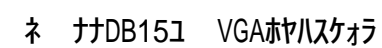
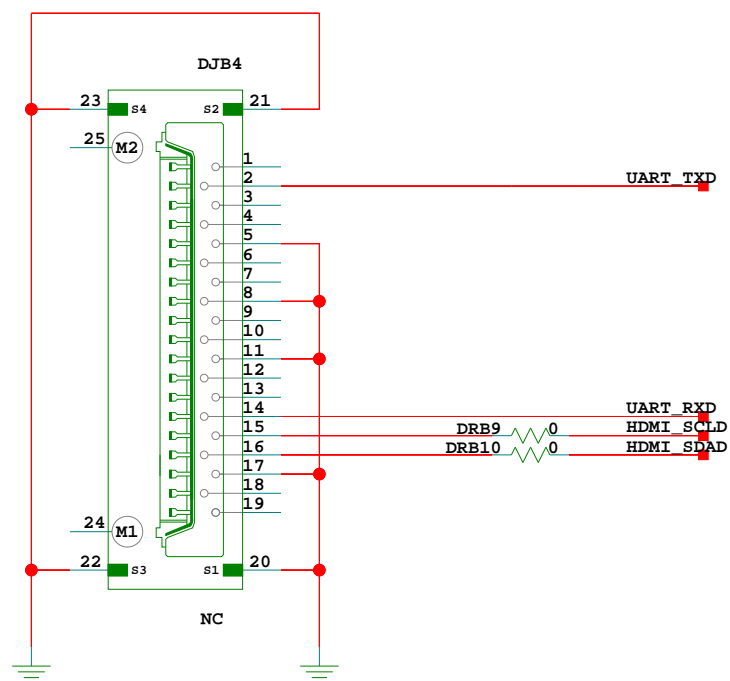
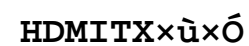












The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HI3751V350TST_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 42 OF 33	
		A	03030001	HUAWEI TECH CO.,LTD.	

MINI LVDS

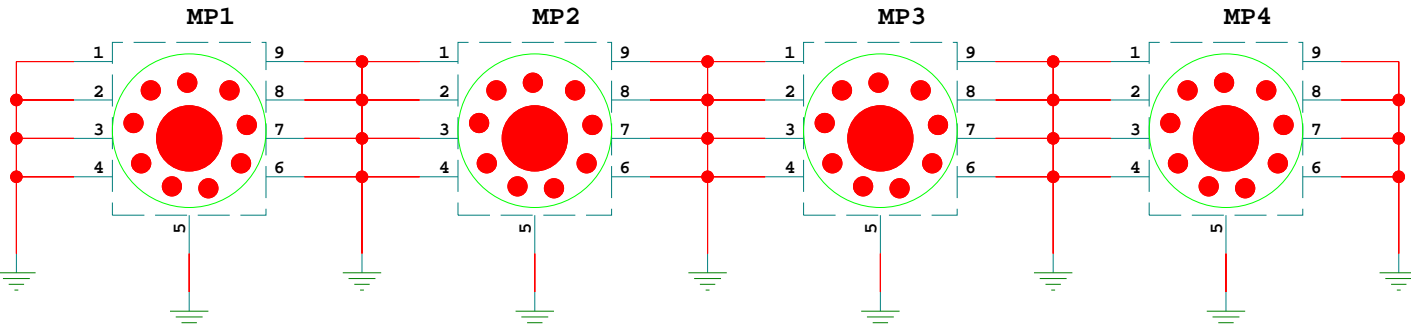
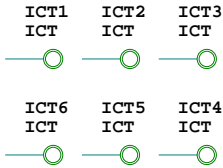
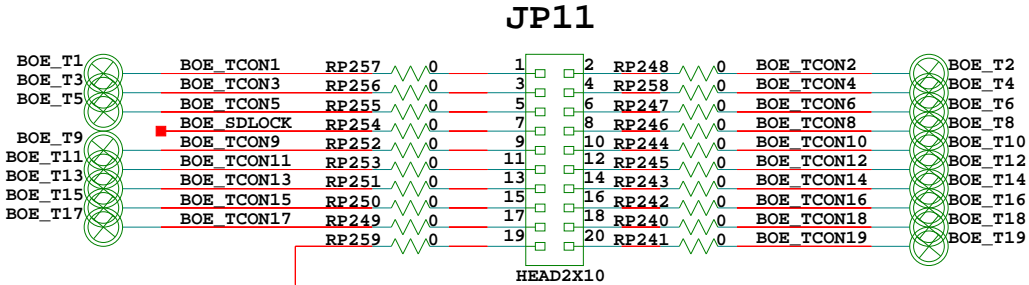
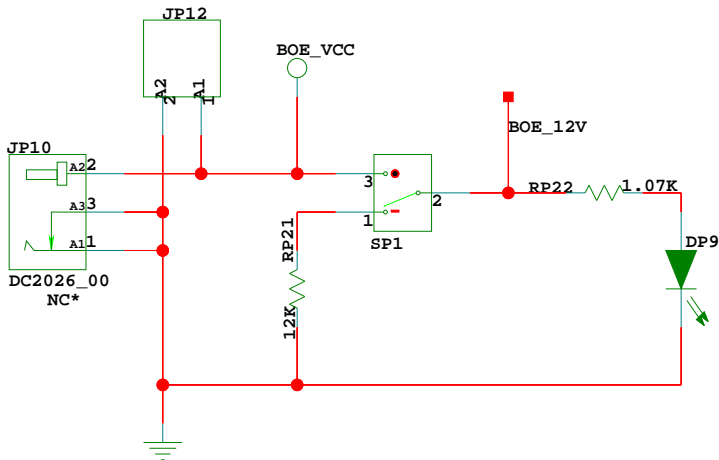
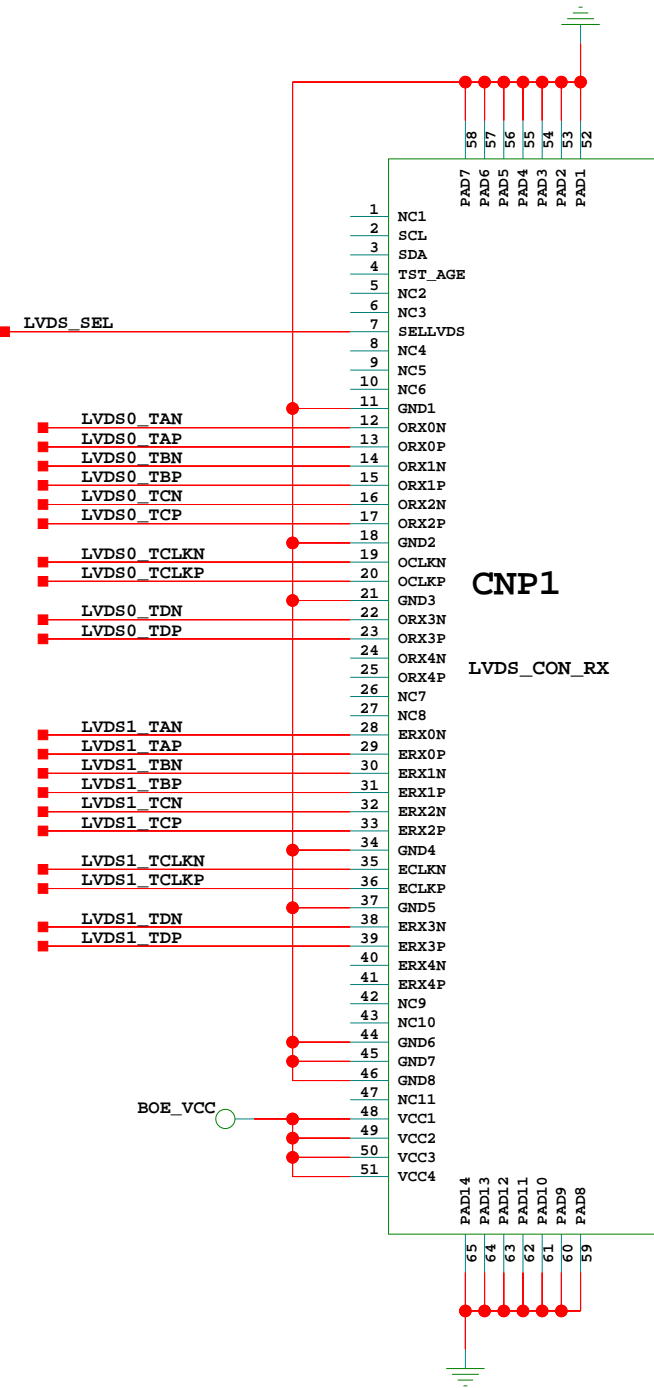
2018.10.24

HIDPTTCON Schematic Circuit Version and Page Information

Page Comment			
1	Information indicator	2	LGD EPI RX
3	PMU POWER SUPPLY (RT6943)	4	LGD TX
5	RT8939	6	RT6504
7	BOE CEDS TX	8	RT8941
9	AUO ISP TX	10	RT9144
11	CMPI TX	12	G2583

The type and specification of the components refer to the BOM					
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HI3751V550CON		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 1 OF 21	
		A	03030001	HUAWEI TECH CO.,LTD.	

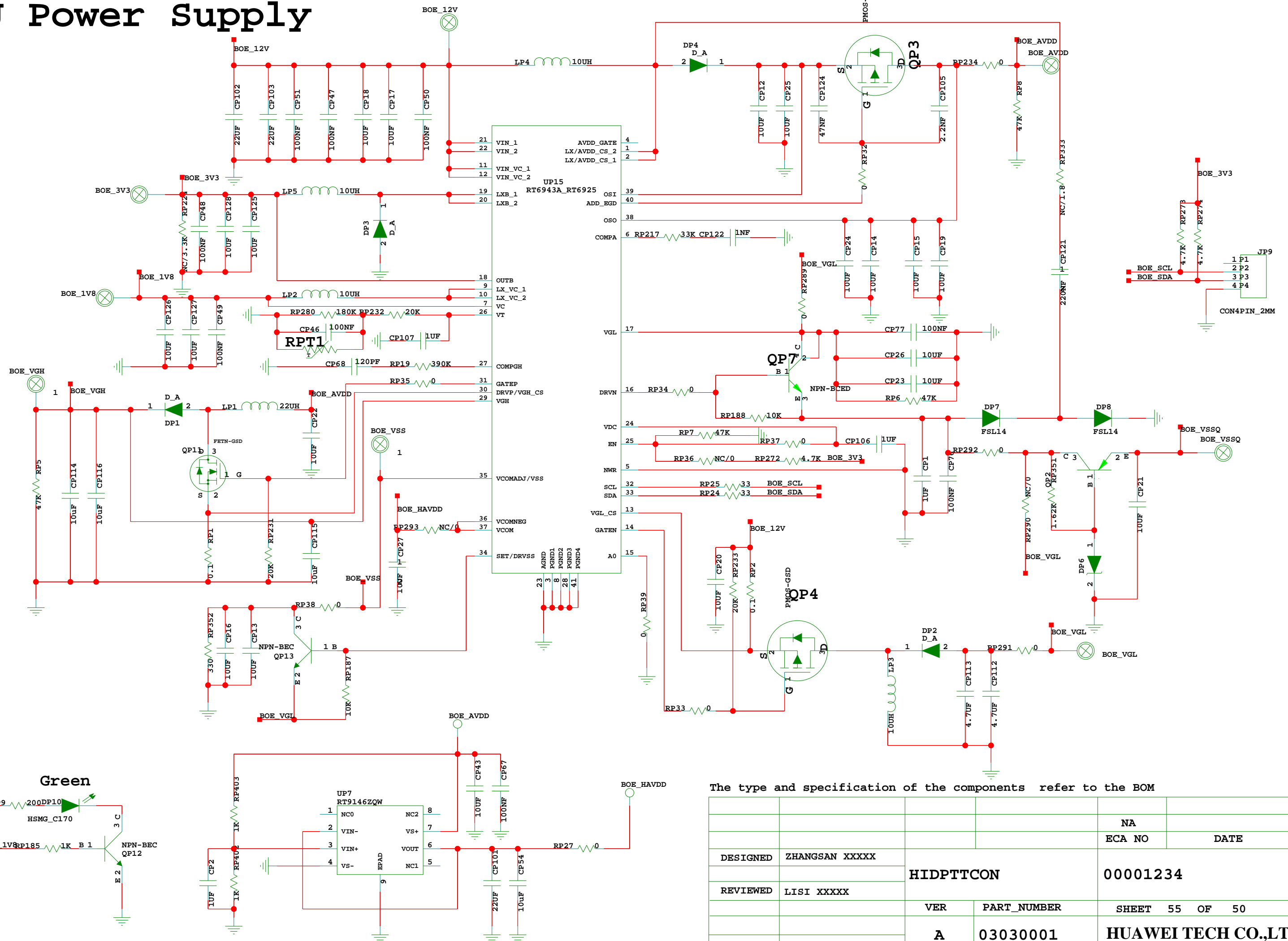
LVDS\_ RX



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	Schematic1		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 1 OF 1	
		A	03030001	HUAWEI TECH CO.,LTD.	

# PMU Power Supply



The type and specification of the components refer to the BOM

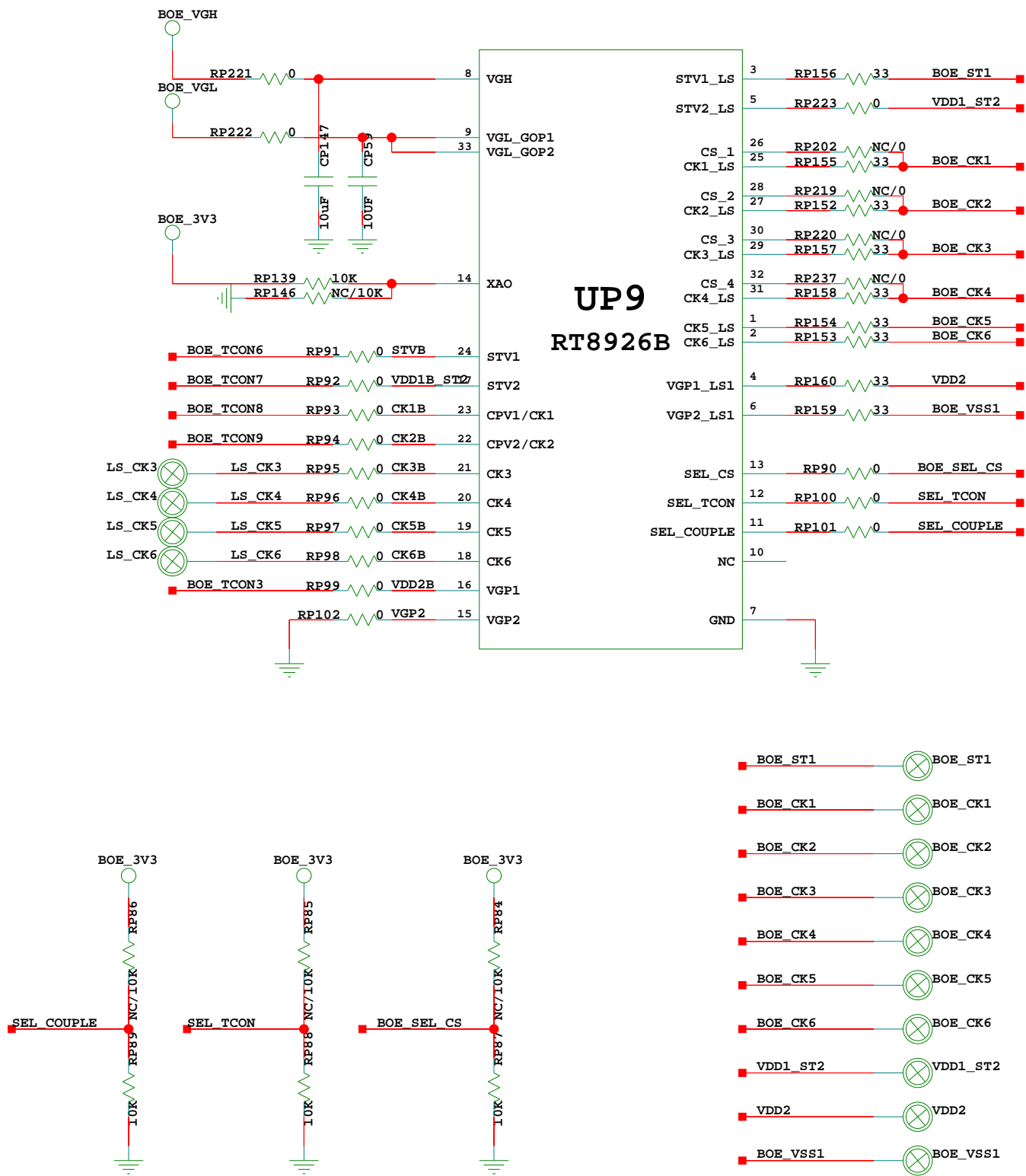
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCON		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 55 OF 50	
		A	03030001	HUAWEI TECH CO.,LTD.	



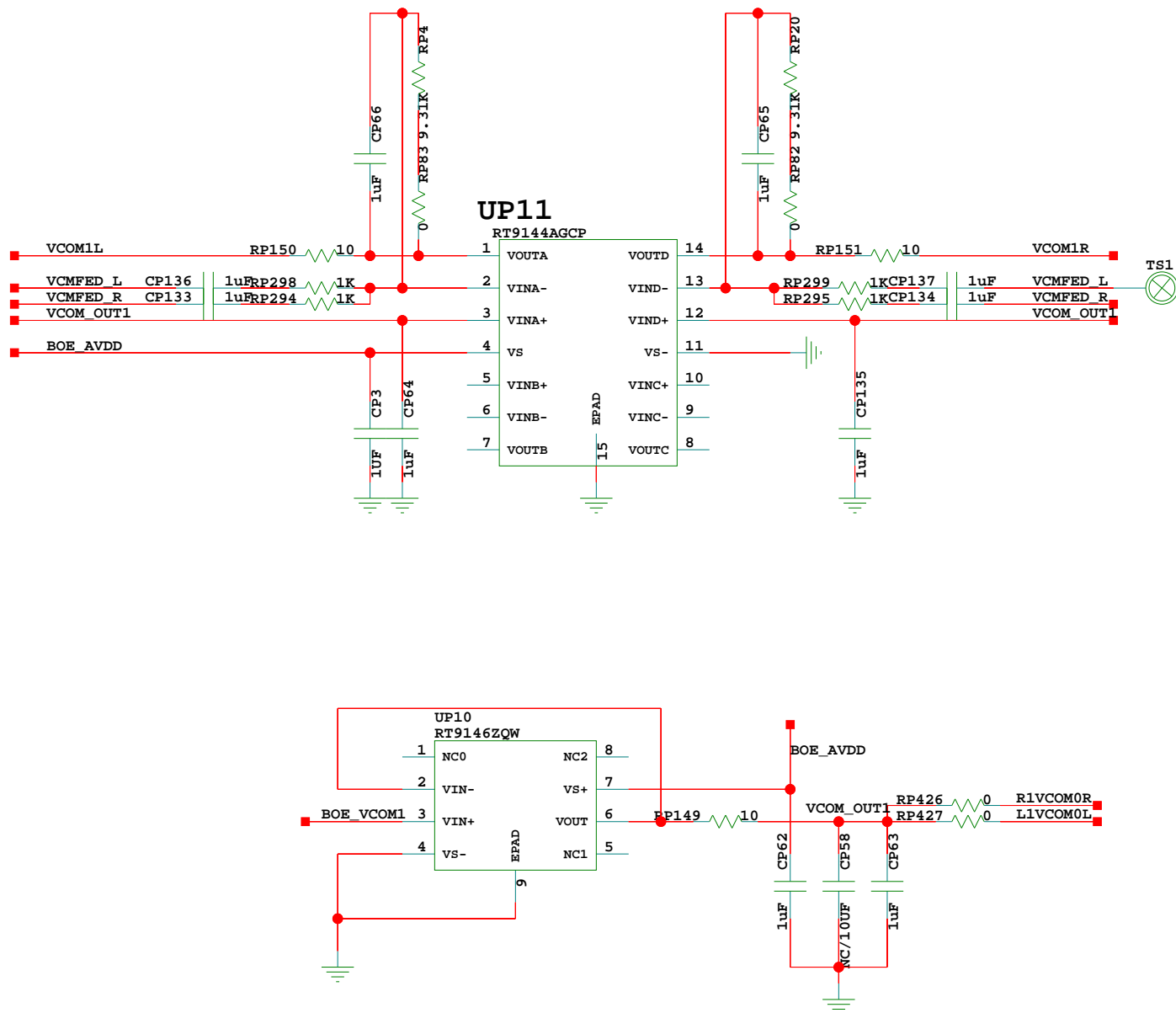


LEVEL SHFIT FOR BOE FHD 43"

LEVEL SHFIT RT8926B



Operational Amplifier FOR BOE FHD

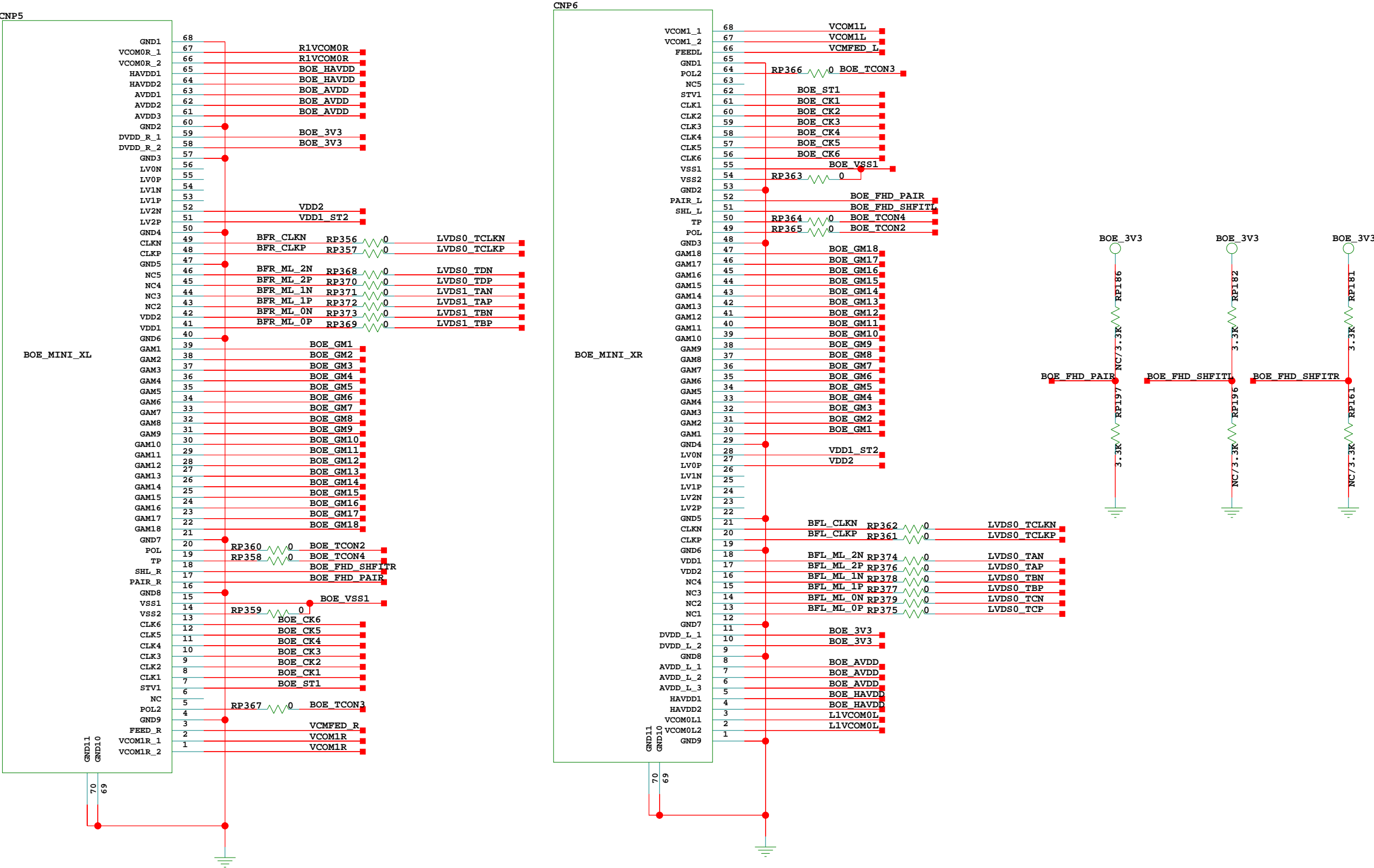


The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	BOE		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 15 OF 13	
		A	03030001	HUAWAI TECH CO.,LTD.	

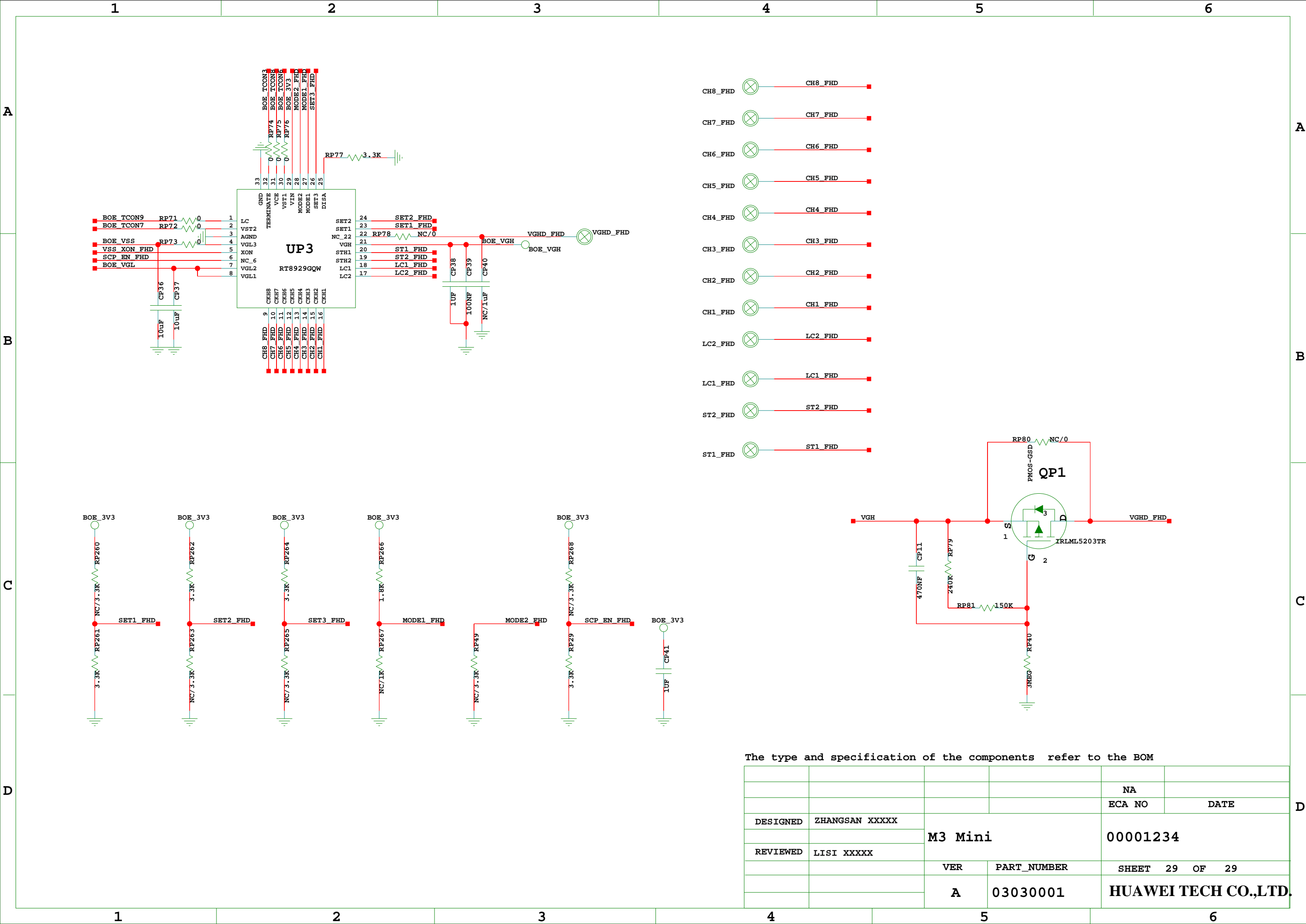


BOE MiniLVDS FHD



The type and specification of the components refer to the BOM

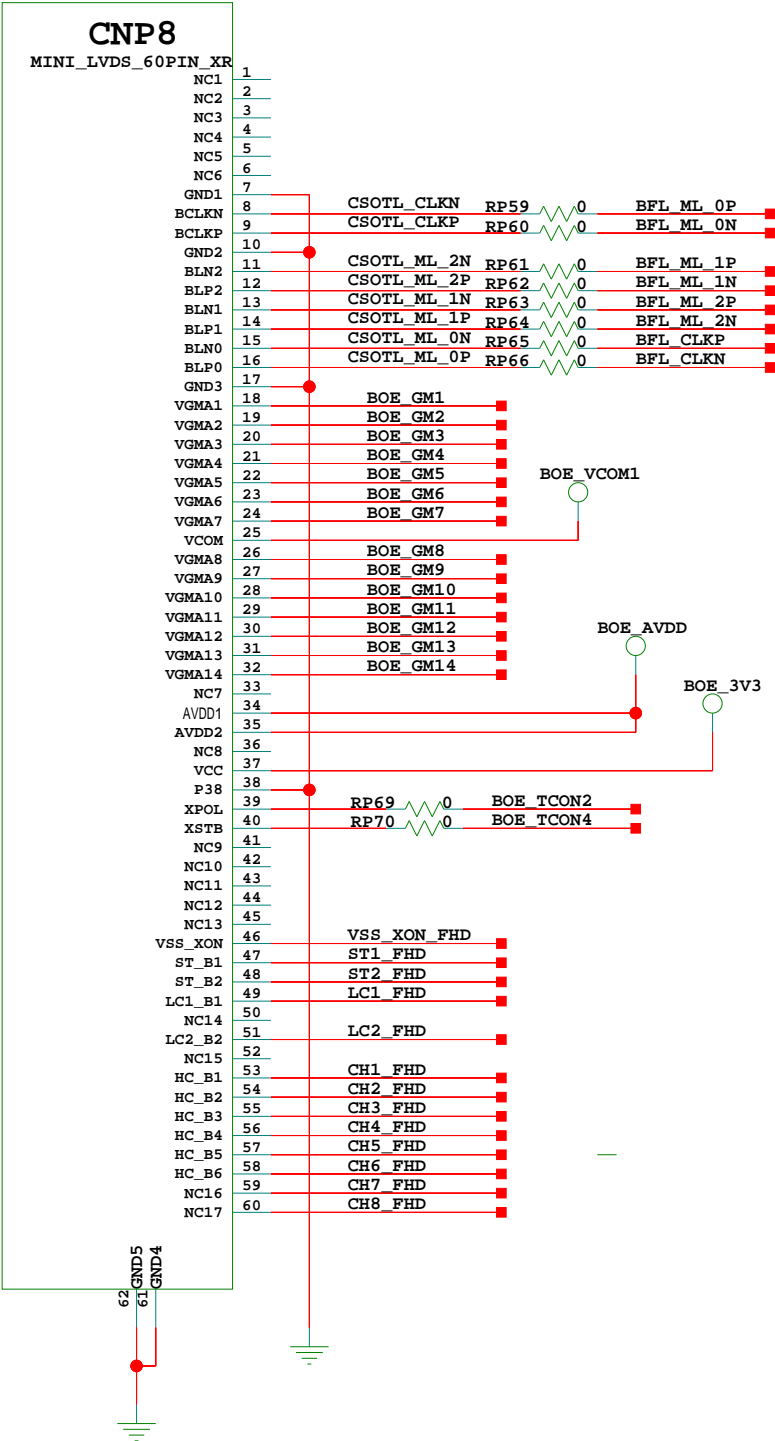
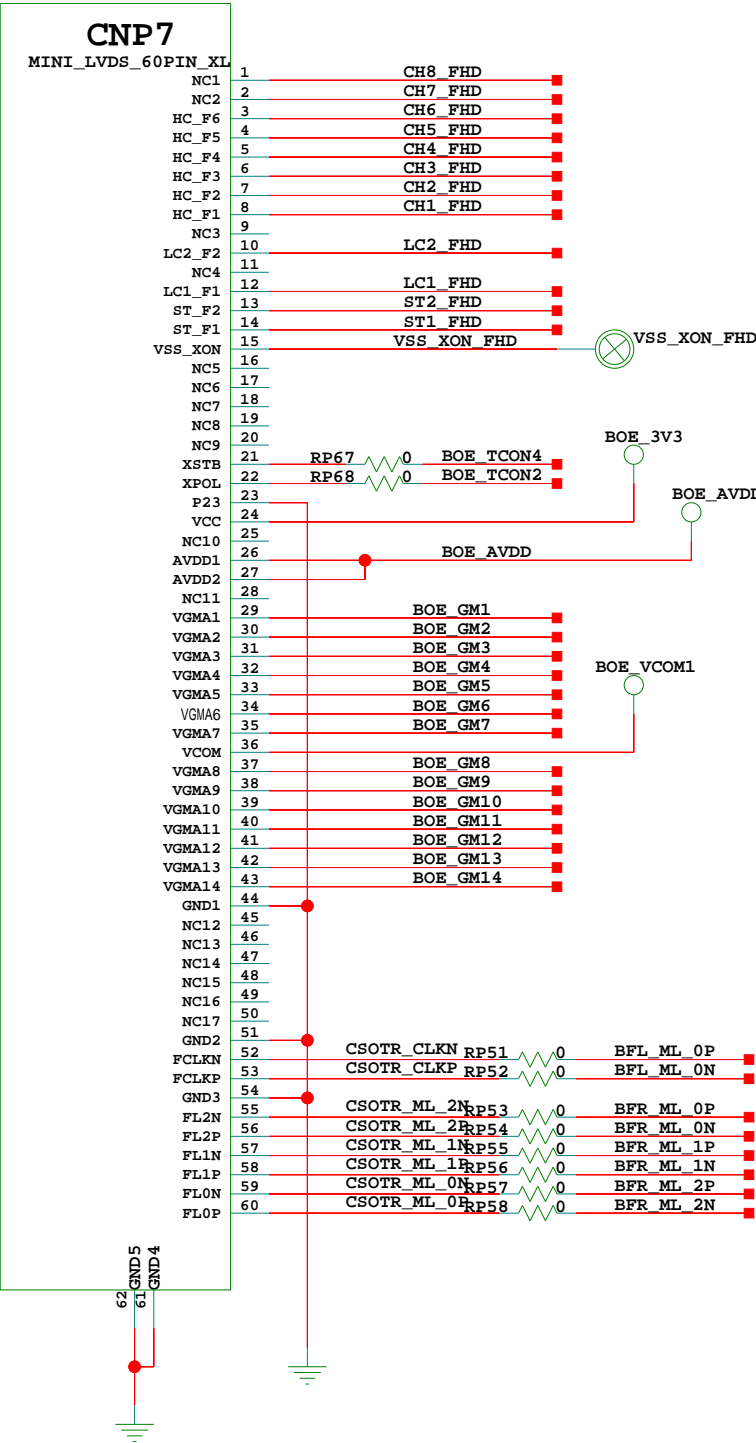
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCON		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 63 OF 58	
		A	03030001	HUAWAI TECH CO.,LTD.	



The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 29 OF 29	
		A	03030001	HUAWEI TECH CO.,LTD.	

MINI TX Connector FOR AUO FHD



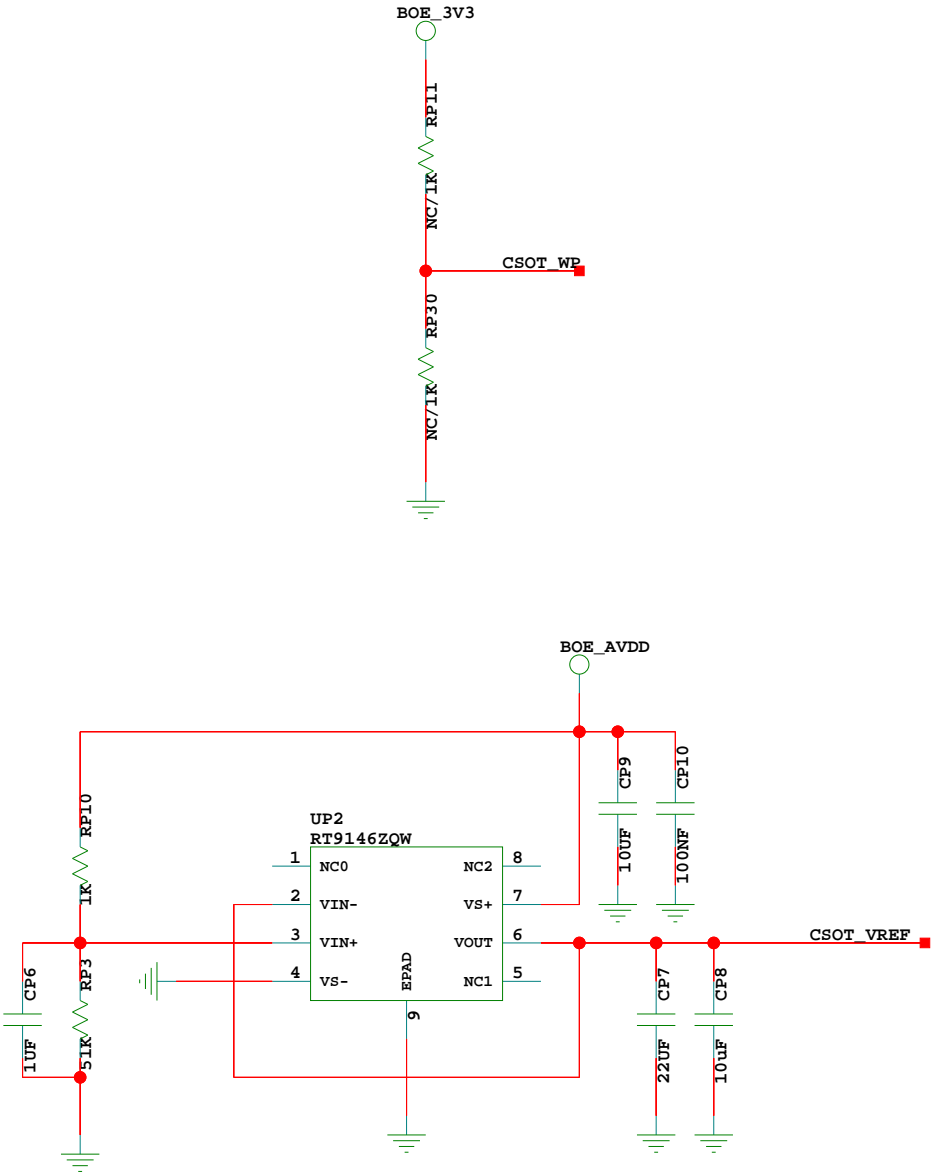
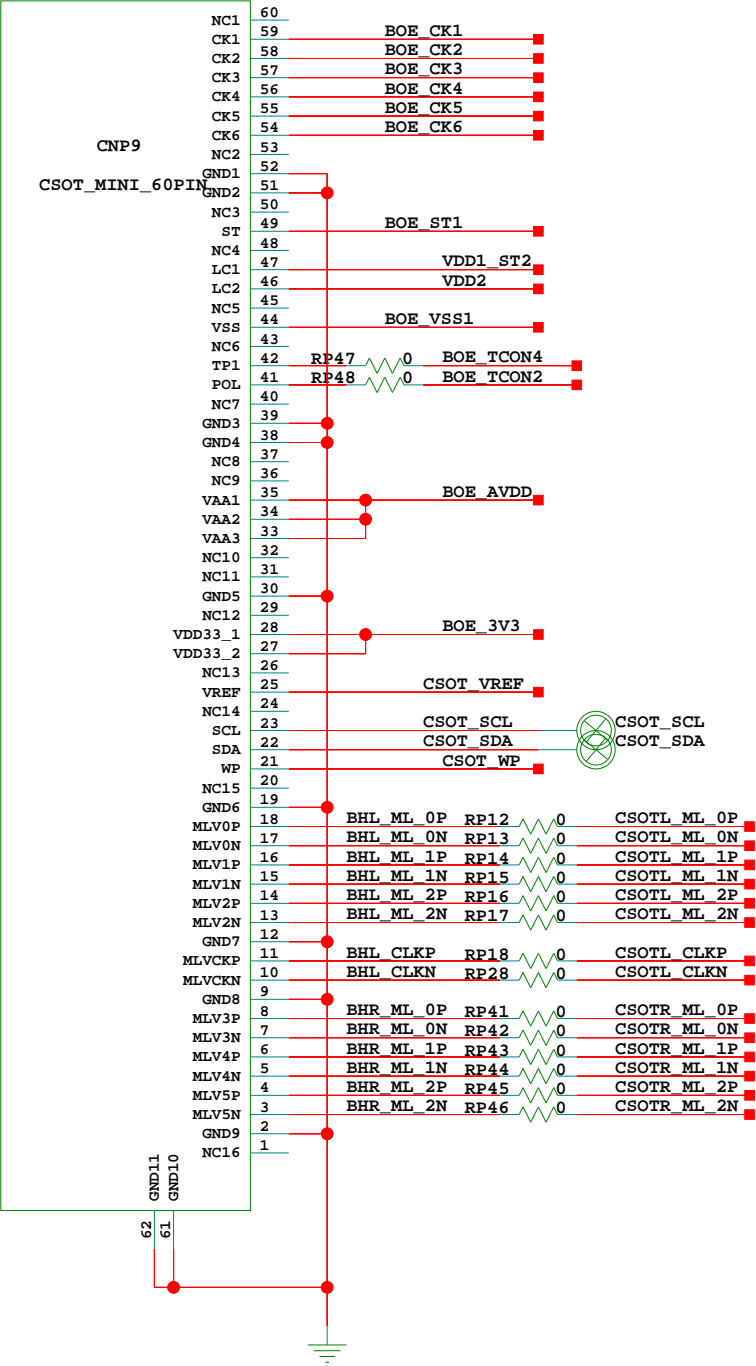
Note:

- 1.default AUO
- 2.MINI-FHD FOR 2port/3pair/8bit
- 3.Gamma Voltage need to change
- 4.8 lane Differences in FPGA need to INVERSE
- 4.8 lane Differences in S3-BOARD need to INVERSE

The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	M3 Mini		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 30 OF 30	
		A	03030001	HUAWAI TECH CO.,LTD.	

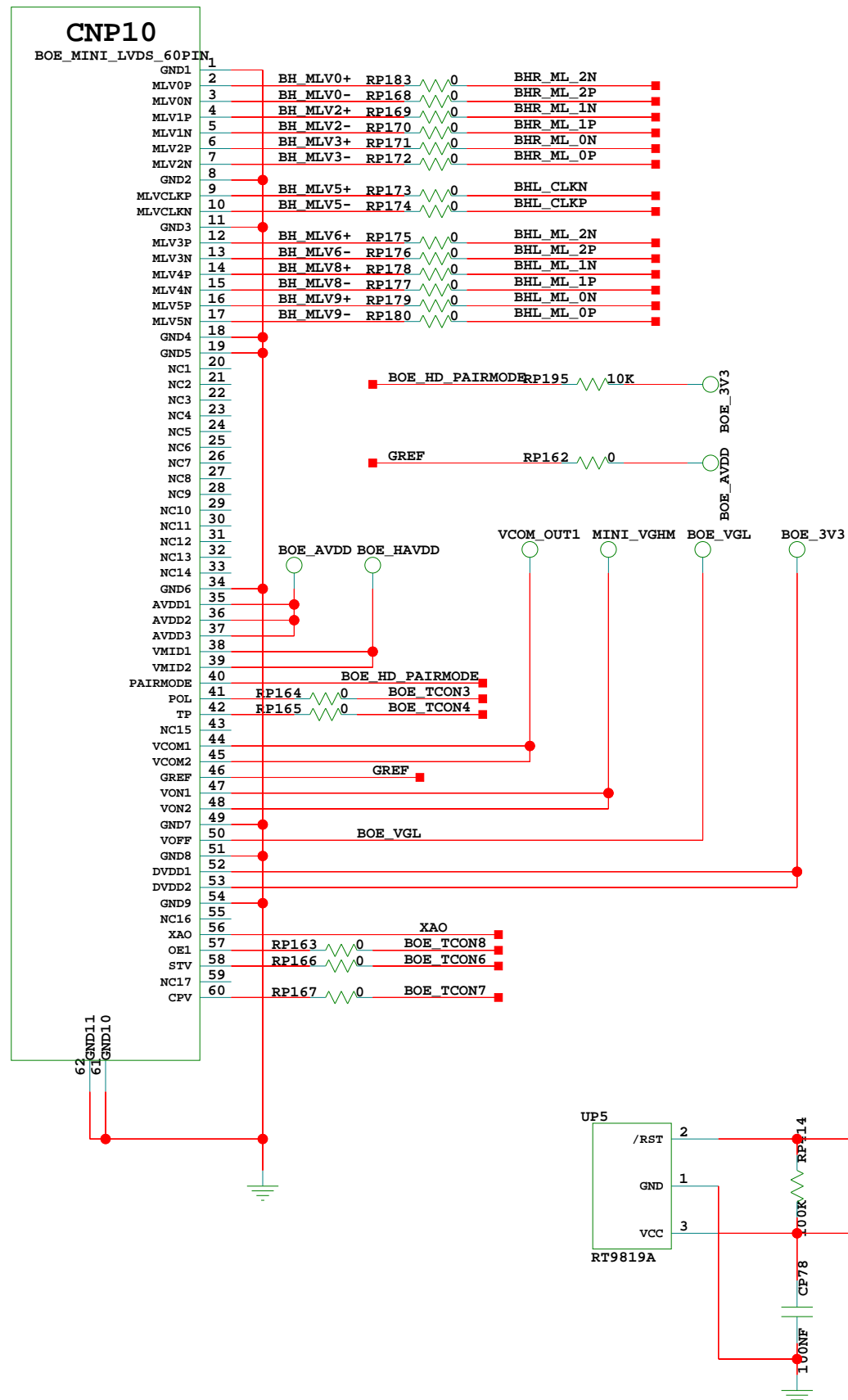
MINI TX Connector FOR CSOT HD



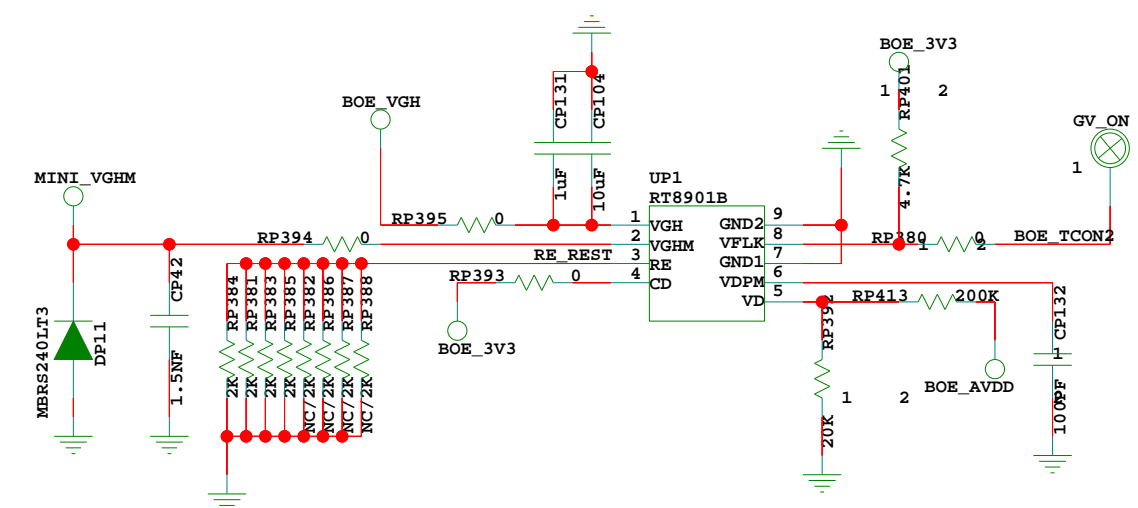
The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	BOE		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 12 OF 12	
		A	03030001	HUAWEI TECH CO.,LTD.	

# BOE MiniLVDS HD



## GATE PULSE MODULATOR



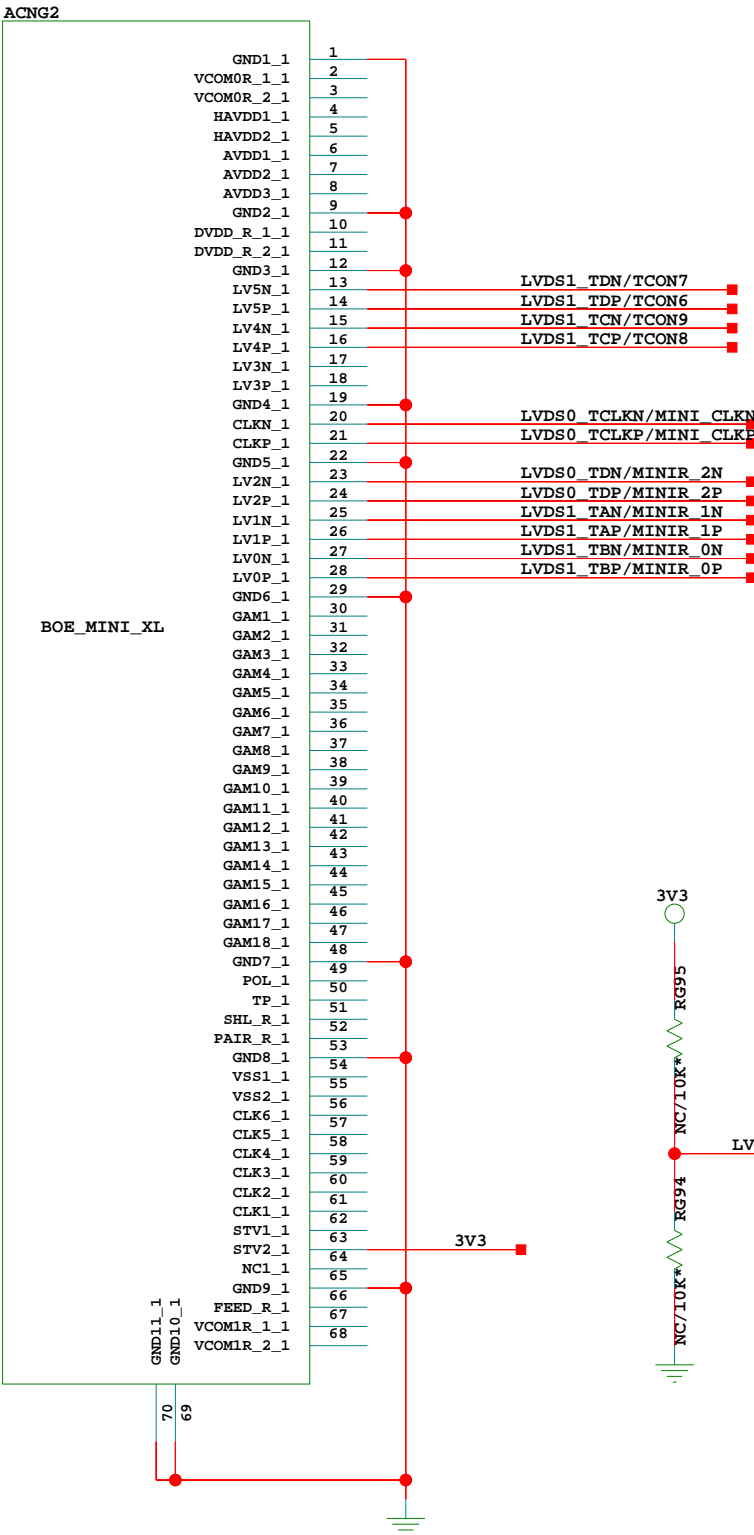
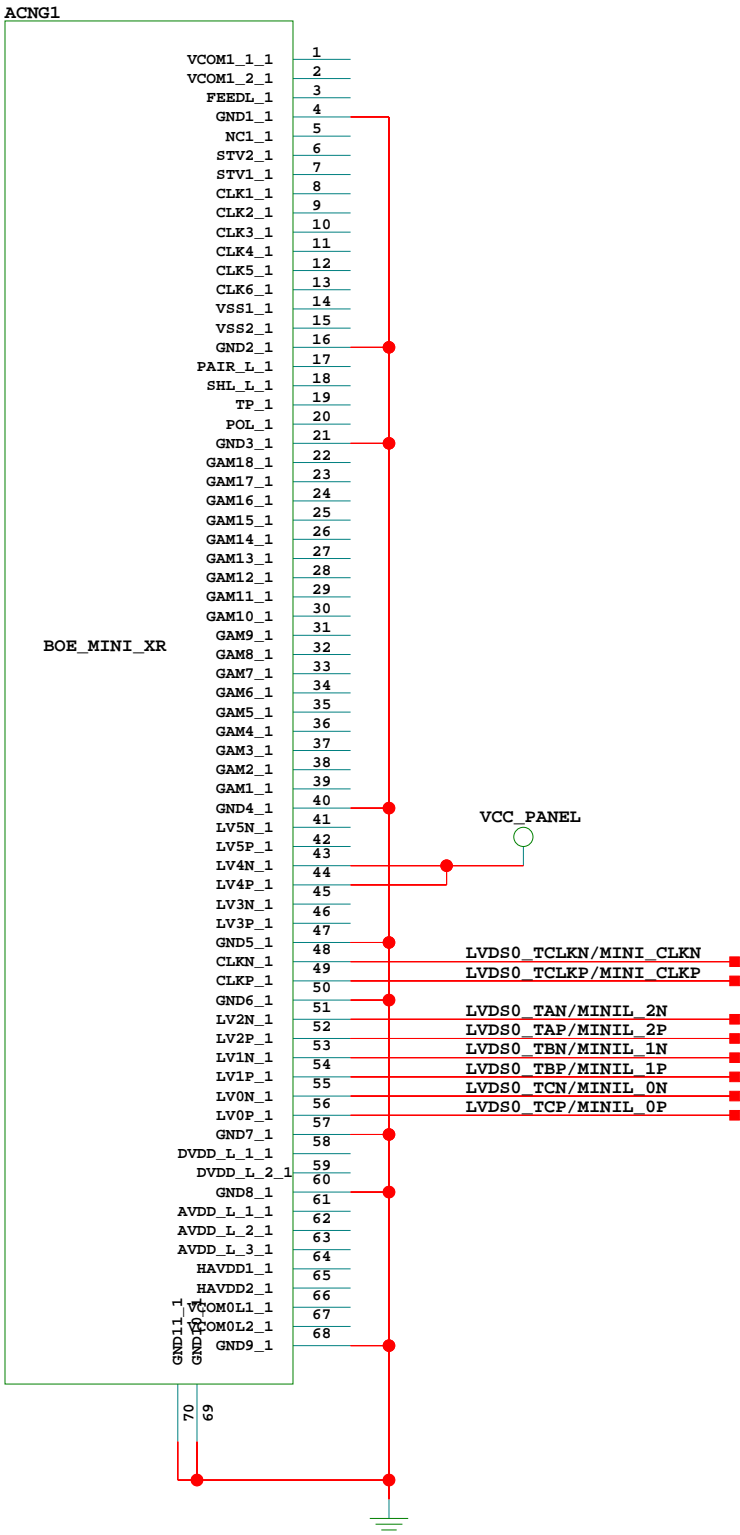
$$V_{GH\ MIN} = 10V_D = 10 \cdot AV_{DD} \cdot R_{188} / (R_{188} + R_{124})$$

The type and specification of the components refer to the BOM

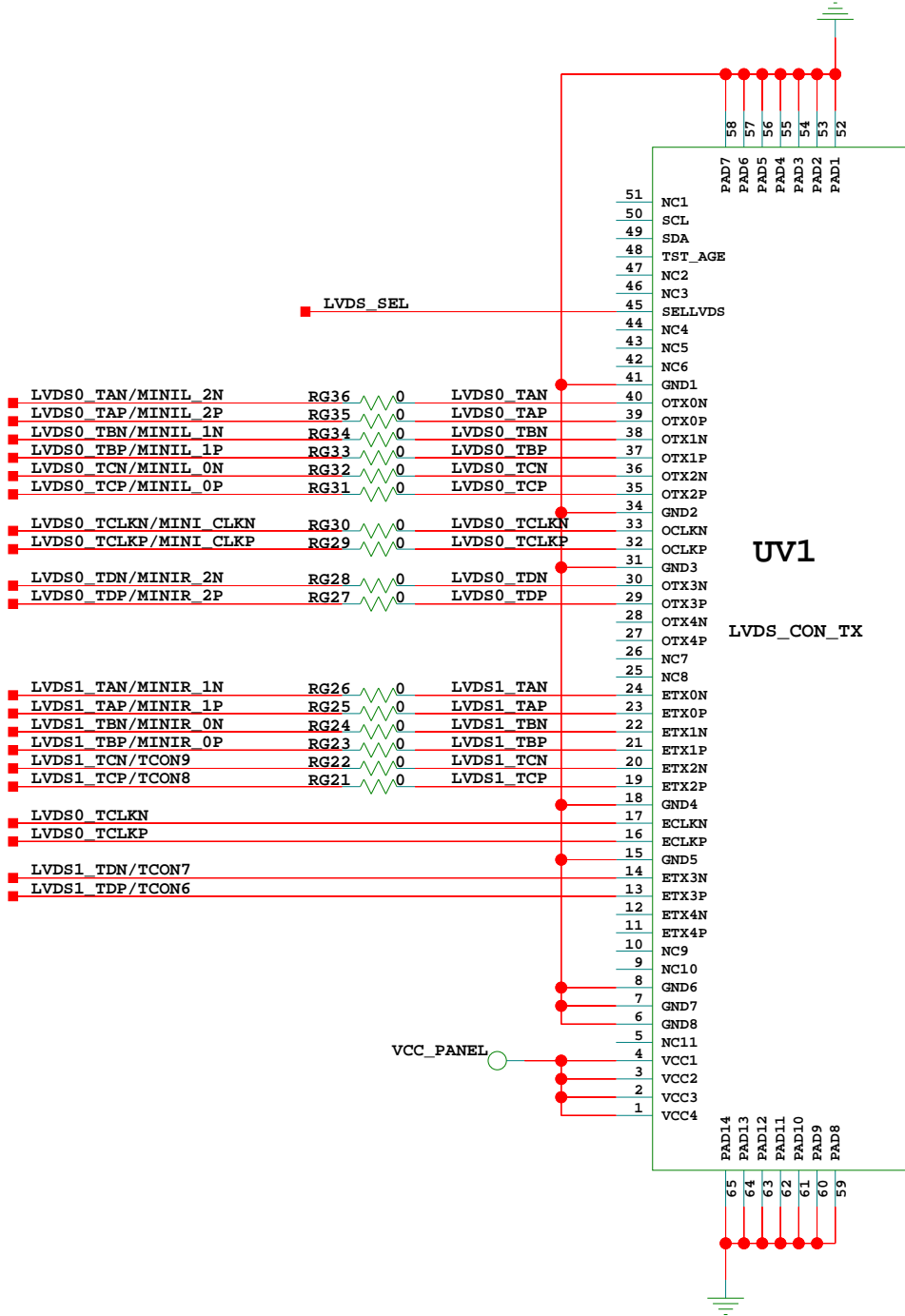
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCON		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET 64 OF 59	
		A	03030001	HUAWEI TECH CO.,LTD.	



BOE MiniLVDS FHD



LVDS

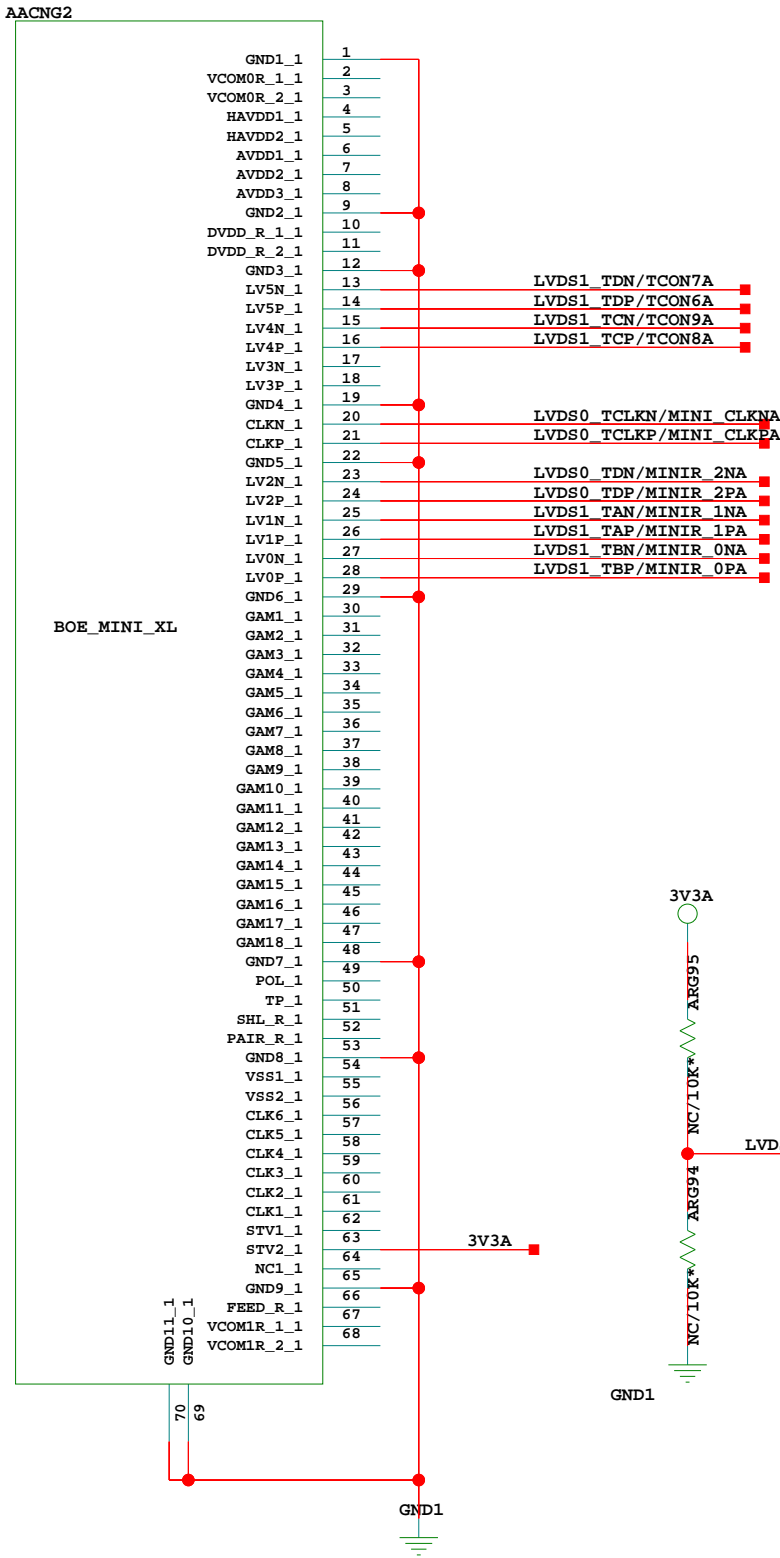
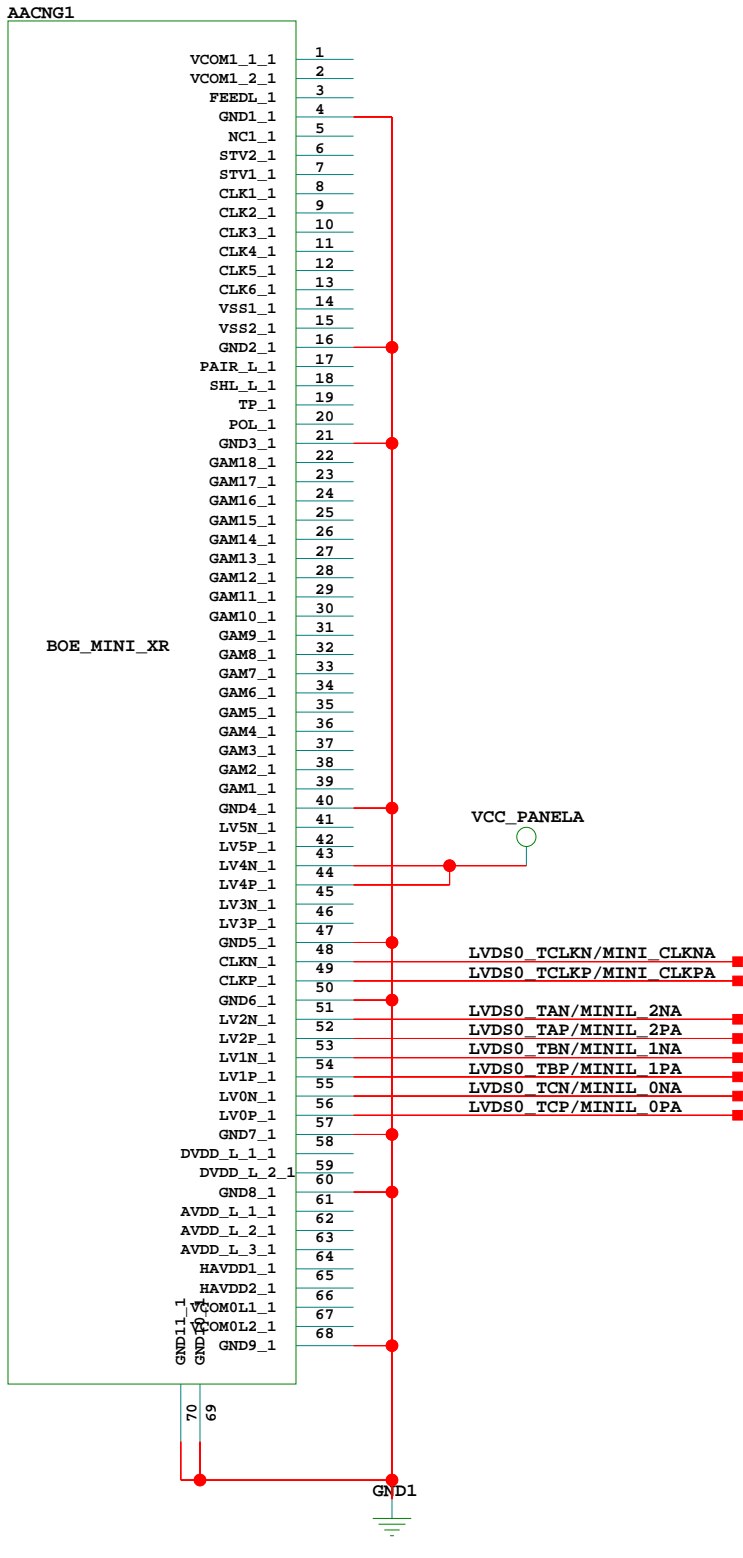


The type and specification of the components refer to the BOM

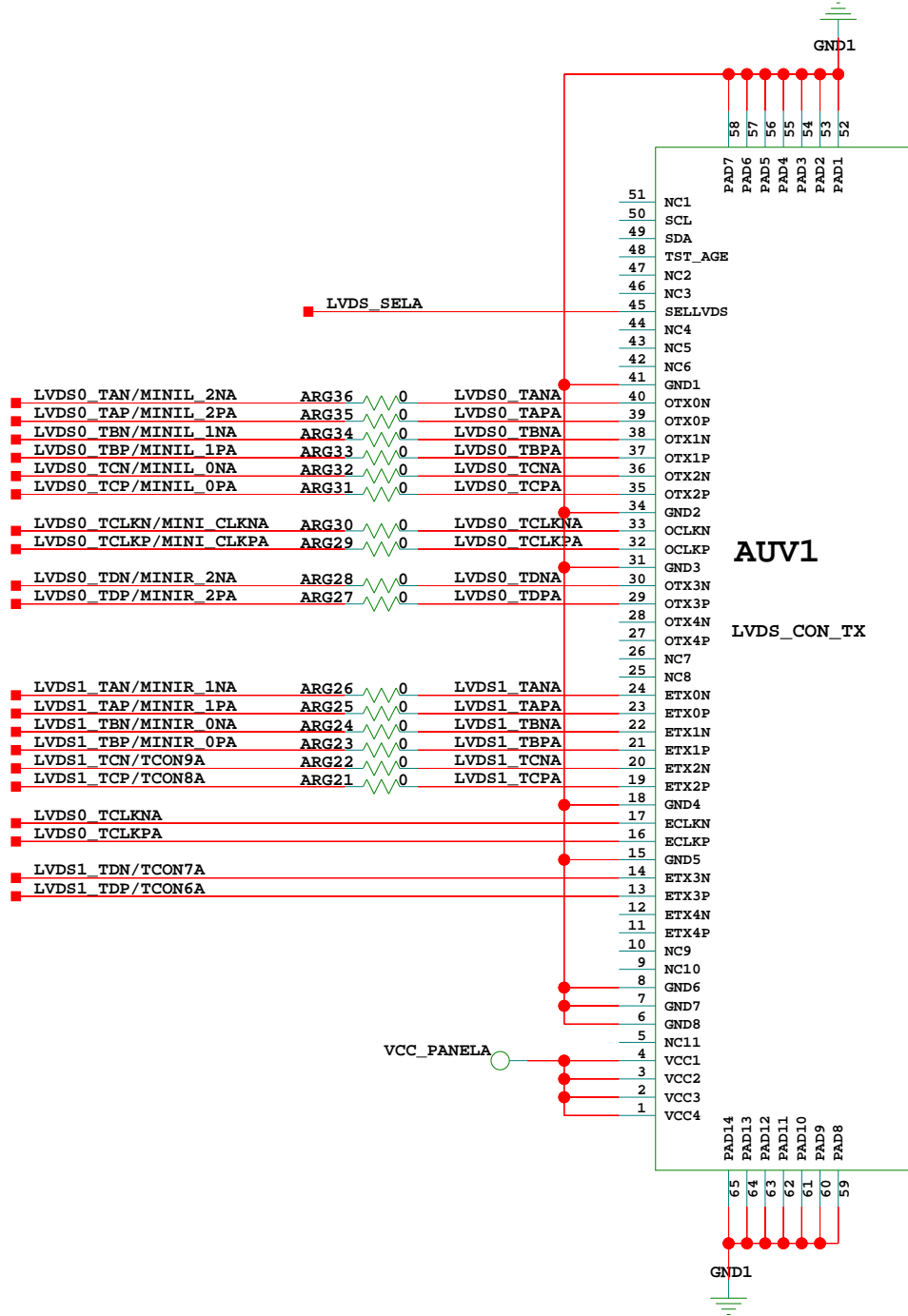
				NA	
				ECA NO	DATE
DESIGNED	F00270367			00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET BOE MINI 29_B10	
		A	03026JAG	HUAWEI TECH CO.,LTD.	



BOE MiniLVDS FHD



LVDS

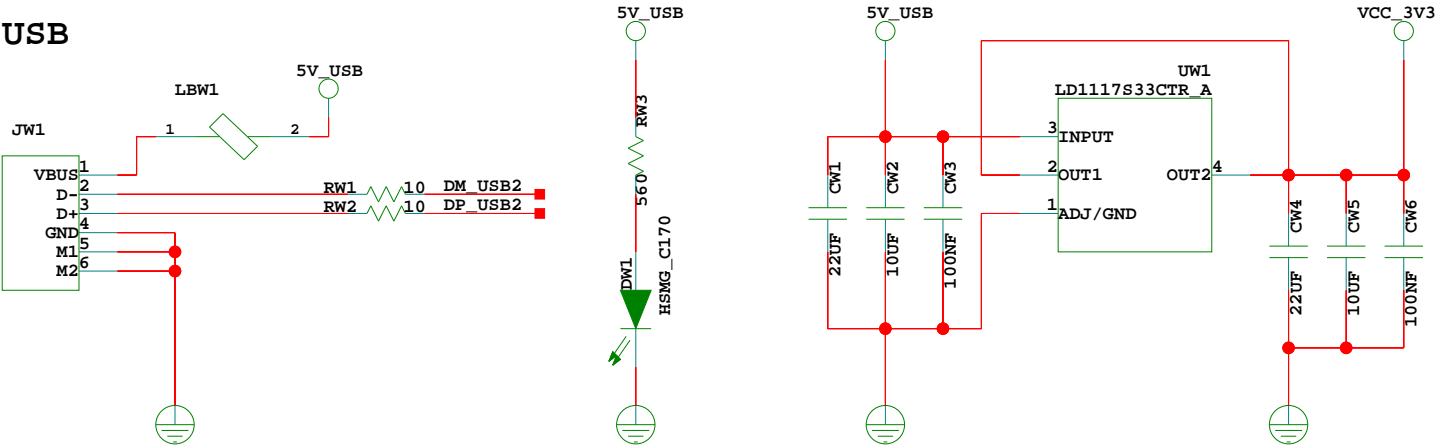


The type and specification of the components refer to the BOM					
				NA	
				ECA NO	DATE
DESIGNED	F00270367	00001234			
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET BOE MINI 29_B10	
		A	03026JAG	HUAWEI TECH CO.,LTD.	

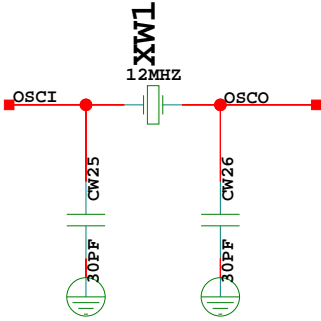


28.USB2UART 01

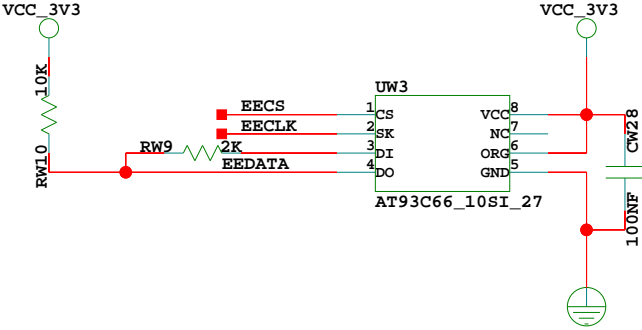
USB



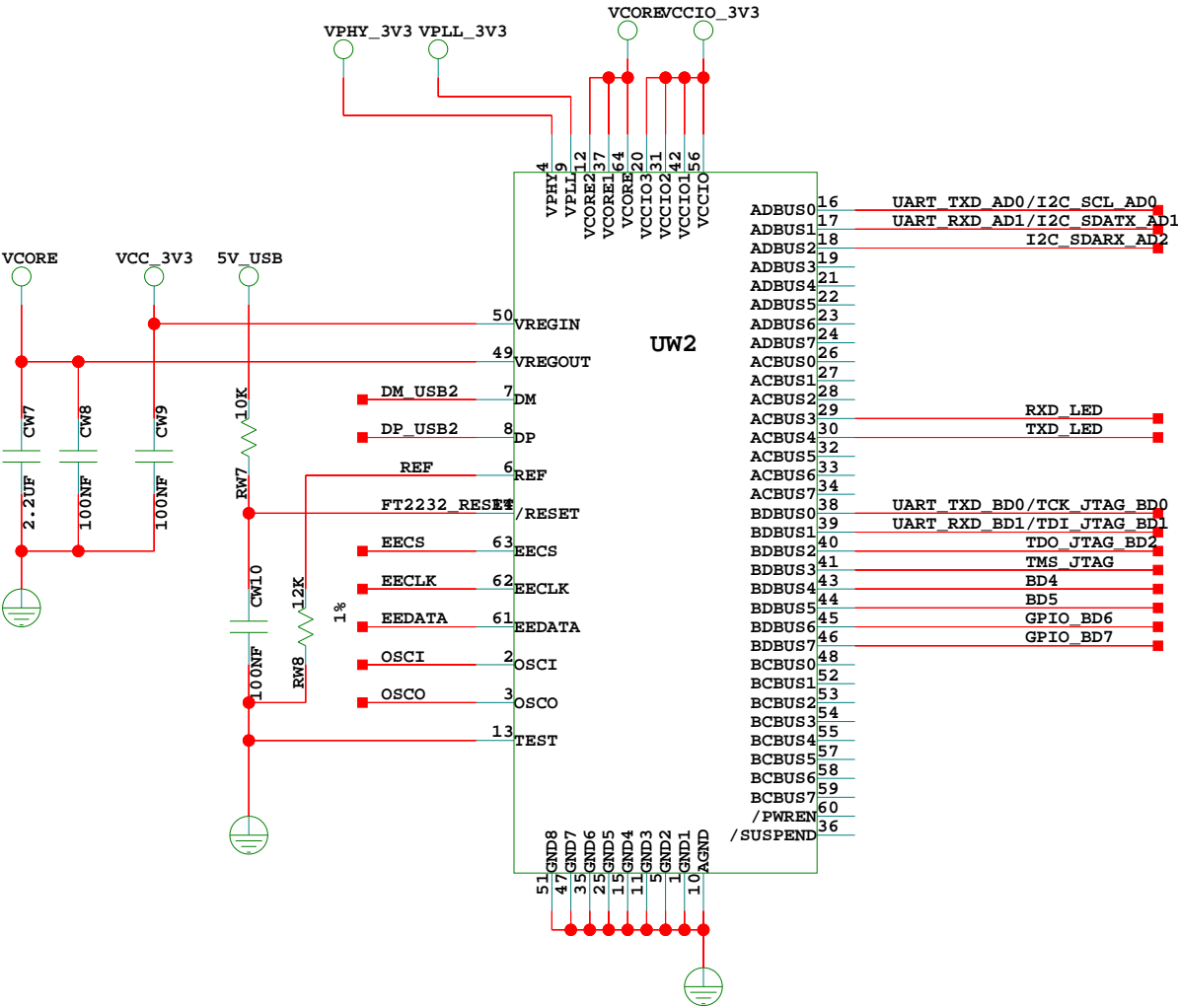
SMD XTAL



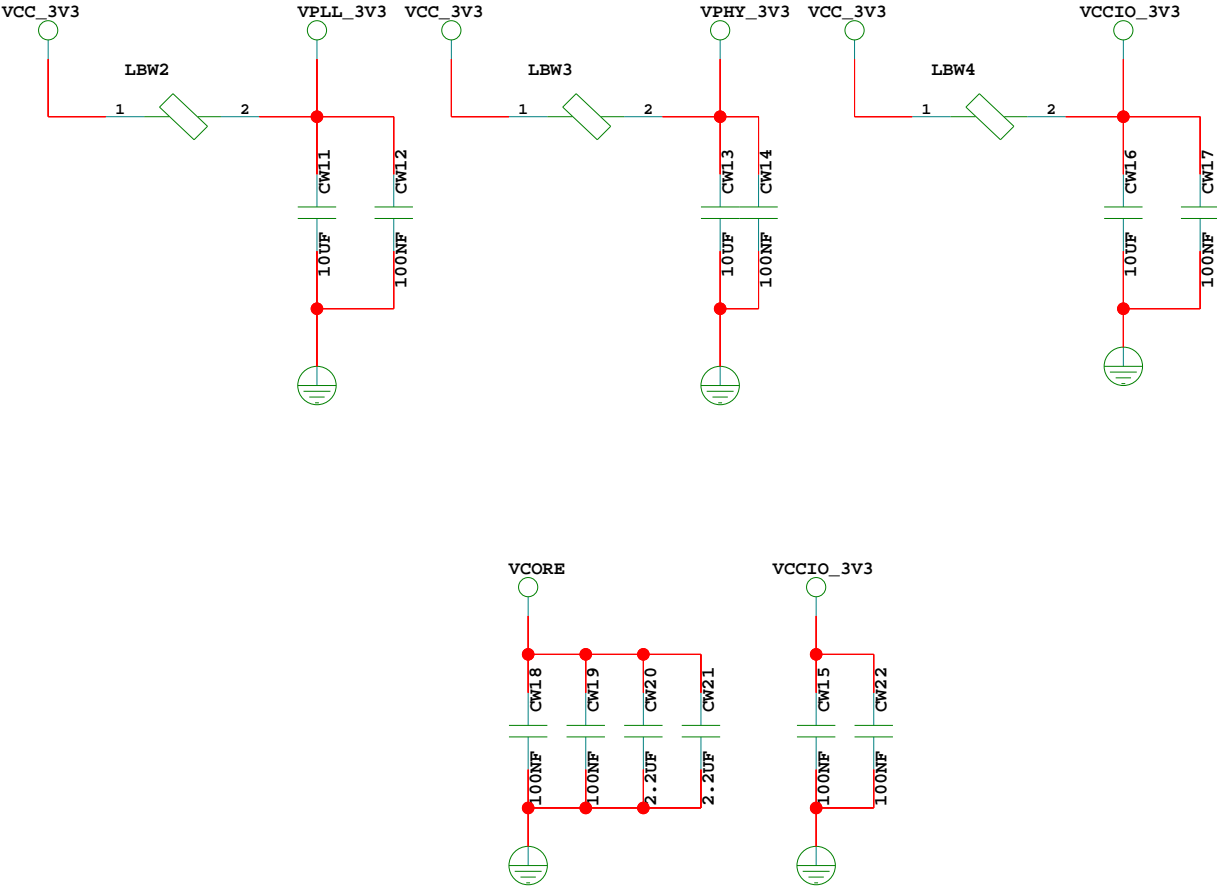
SPI\_EEPROM\_4K



SOC 2232H



SOC FILTERING CAPACITOR

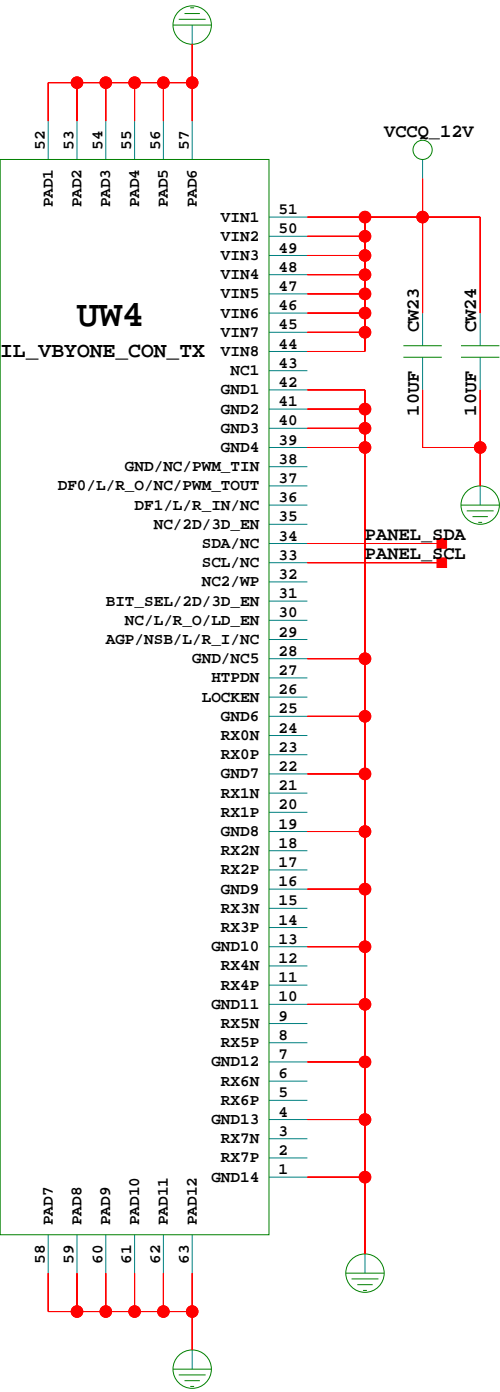


The type and specification of the components refer to the BOM

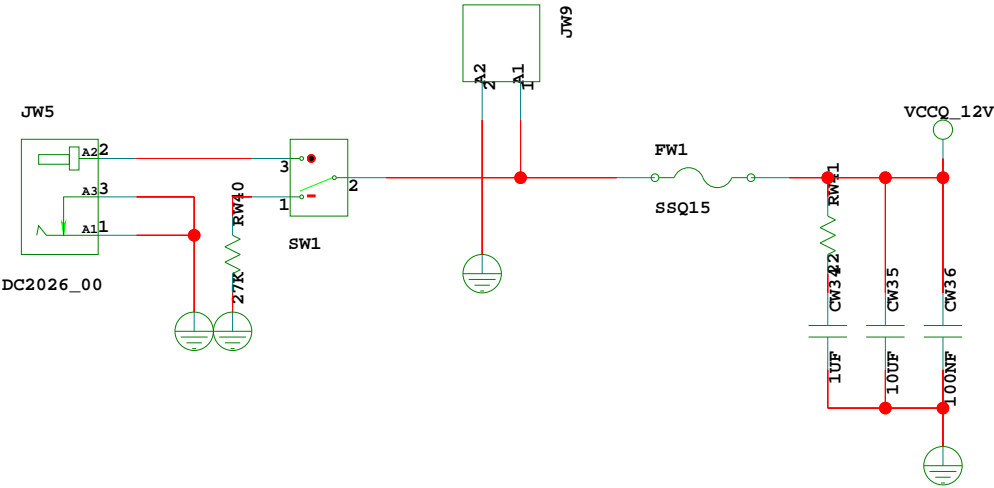
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 01	
		A	03030001	HUAWEI TECH CO.,LTD.	



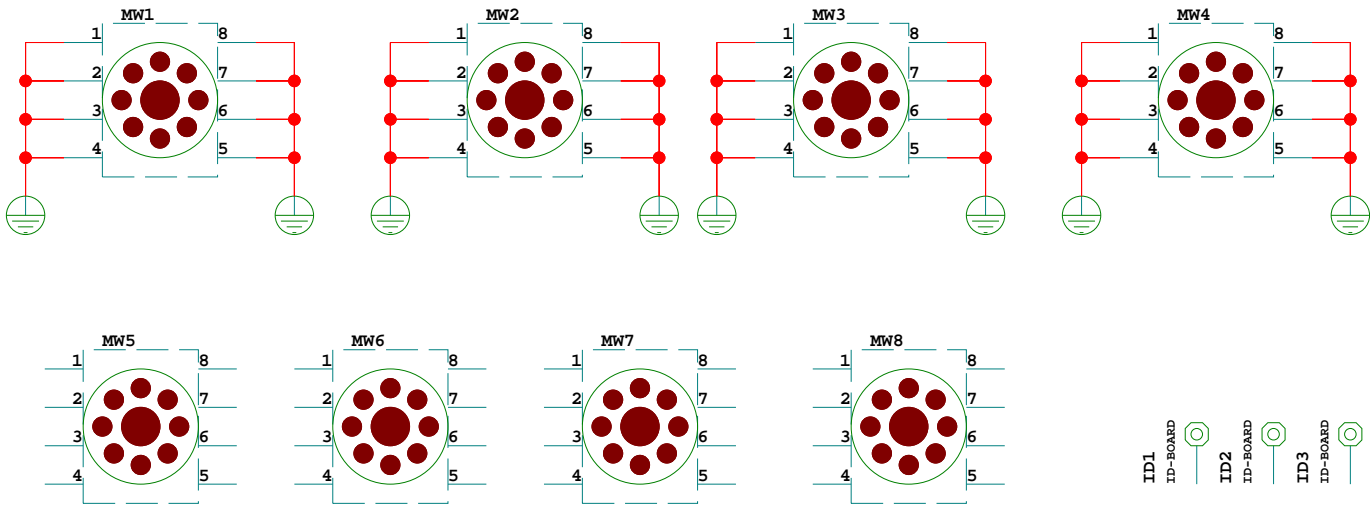
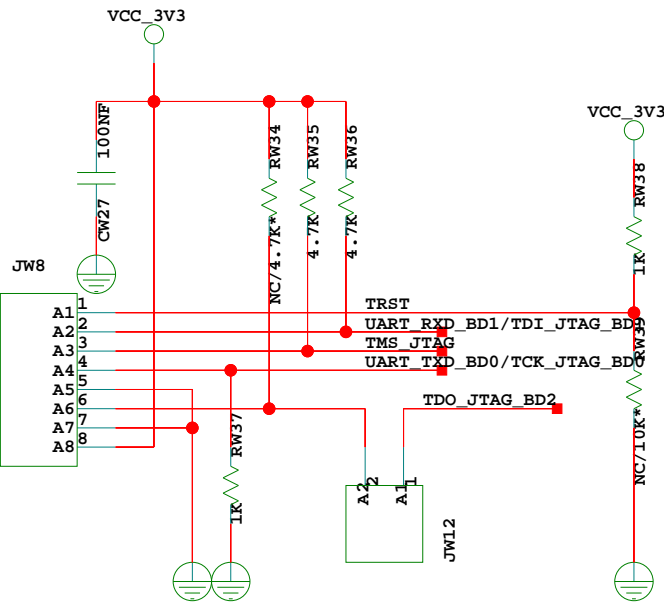
VBO RX POWER



POWER CONNECTOR



5 LINE JTAG

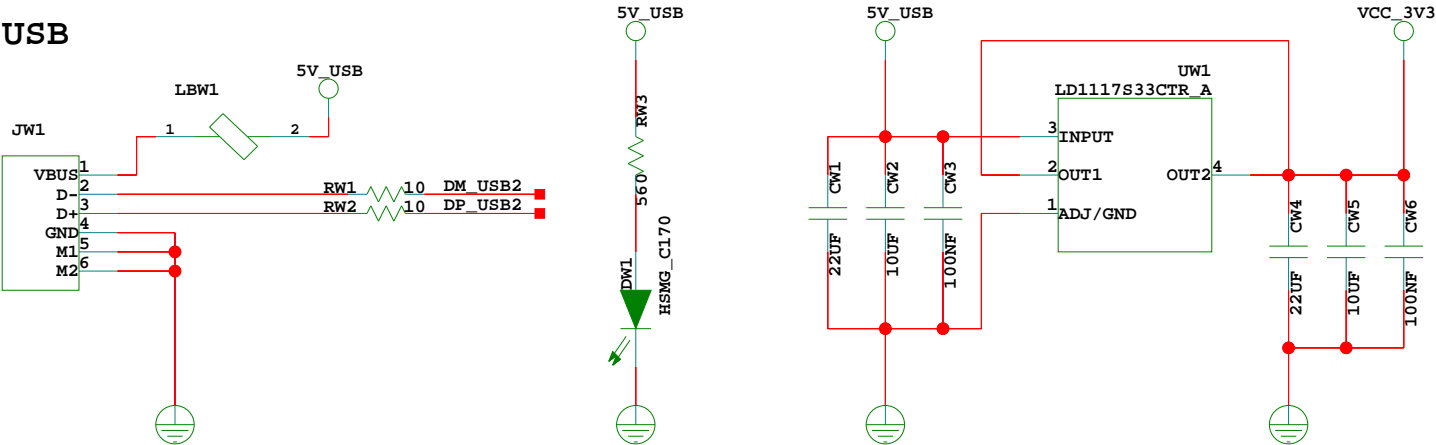


The type and specification of the components refer to the BOM

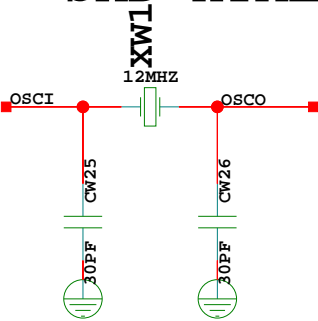
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 06	
		A	03030001	HUAWEI TECH CO.,LTD.	

28.USB2UART 01

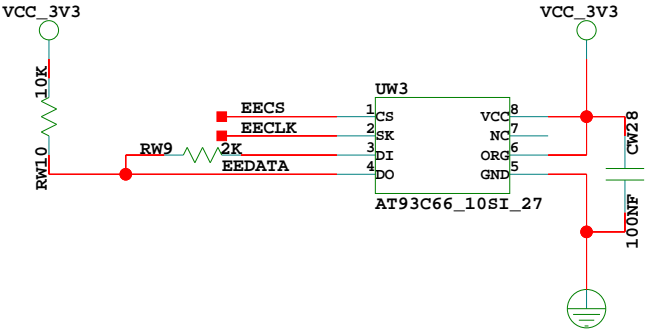
USB



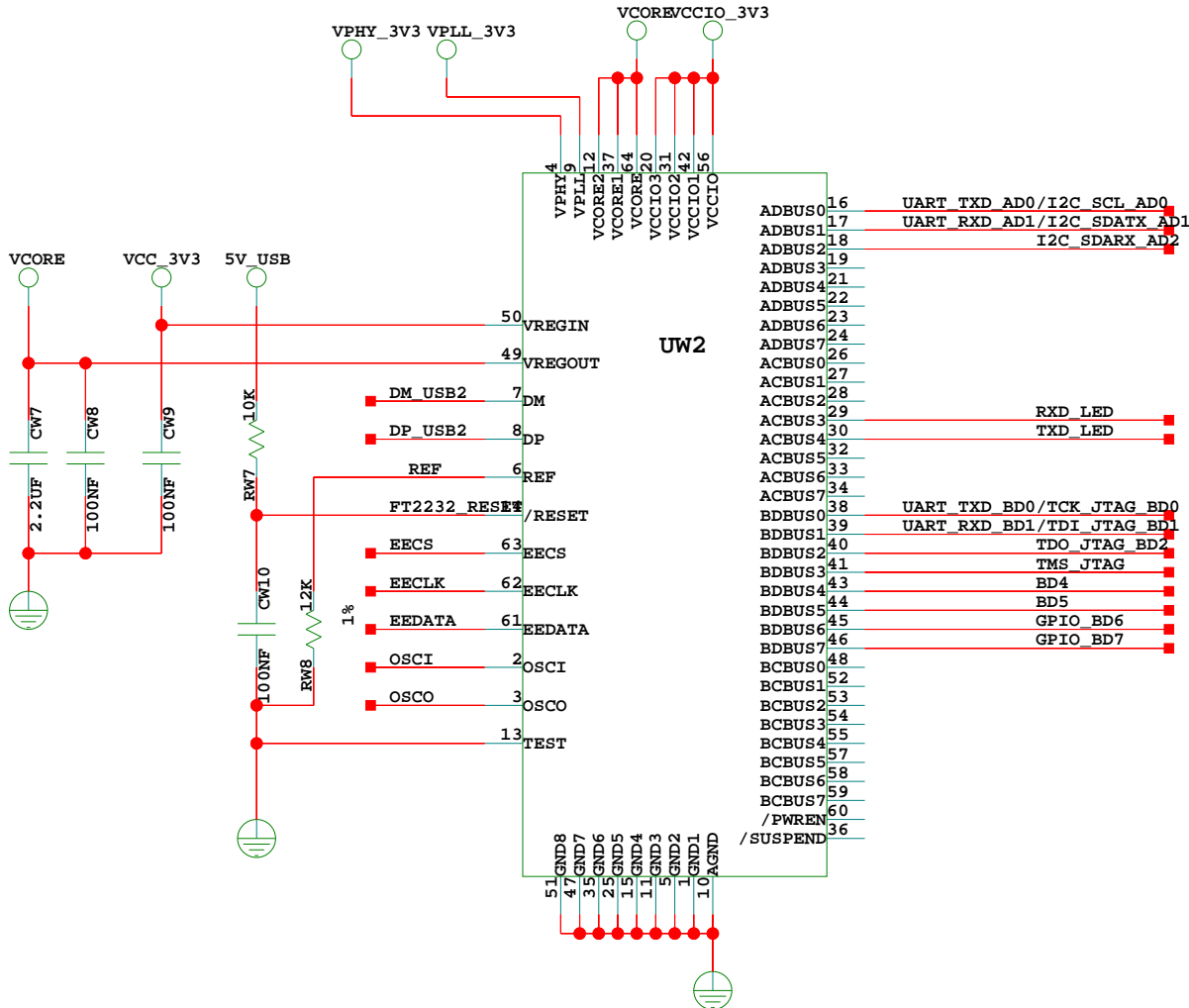
SMD XTAL



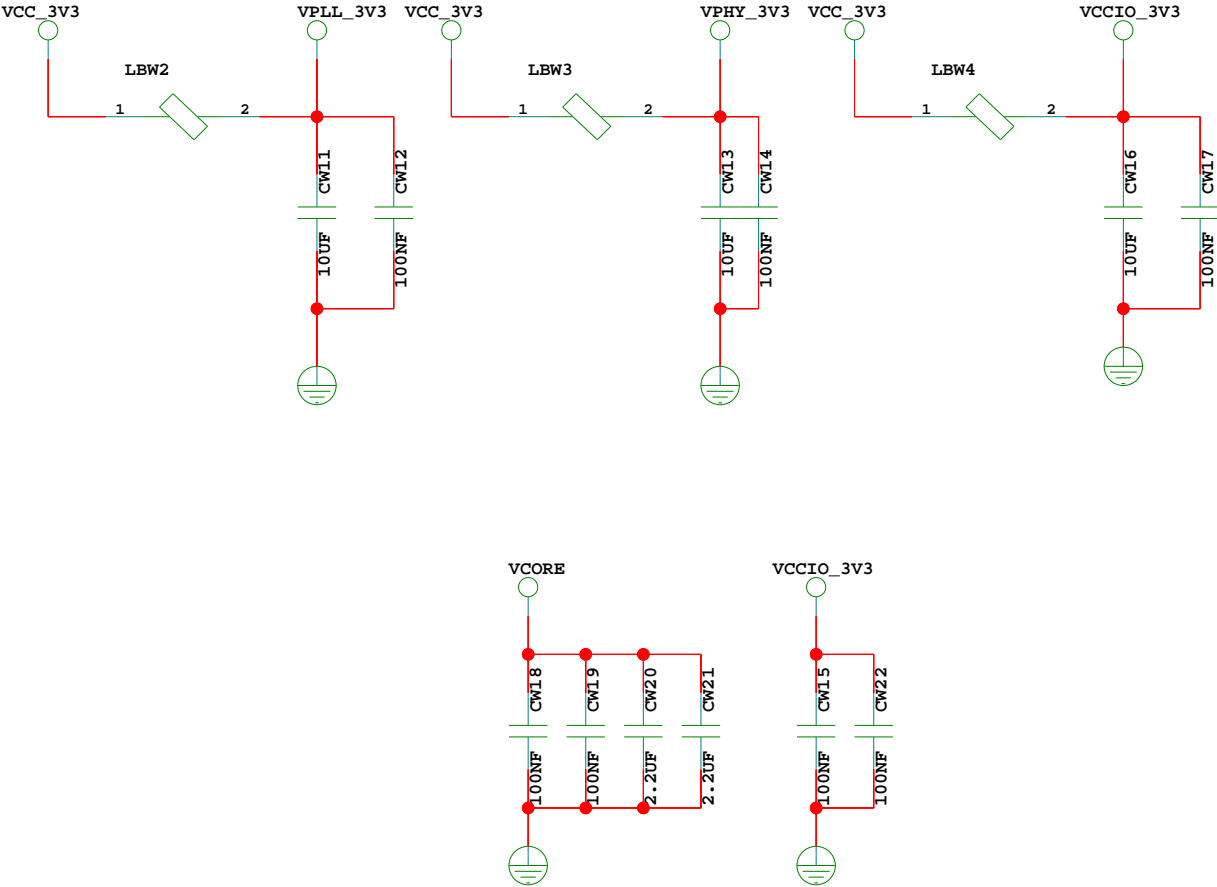
SPI\_EEPROM\_4K



SOC 2232H



SOC FILTERING CAPACITOR

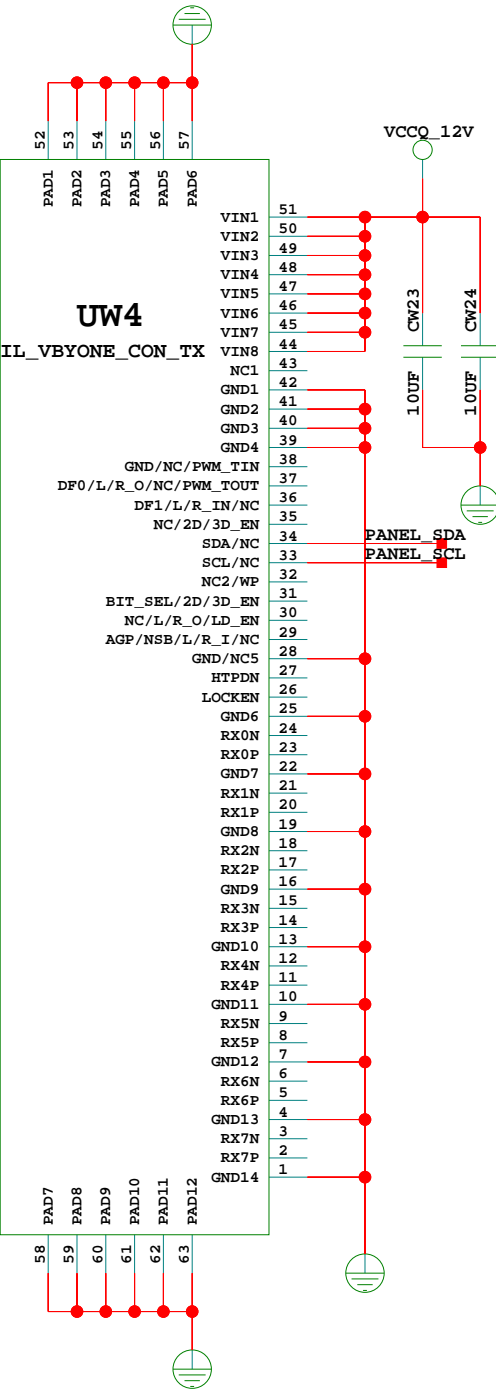


The type and specification of the components refer to the BOM

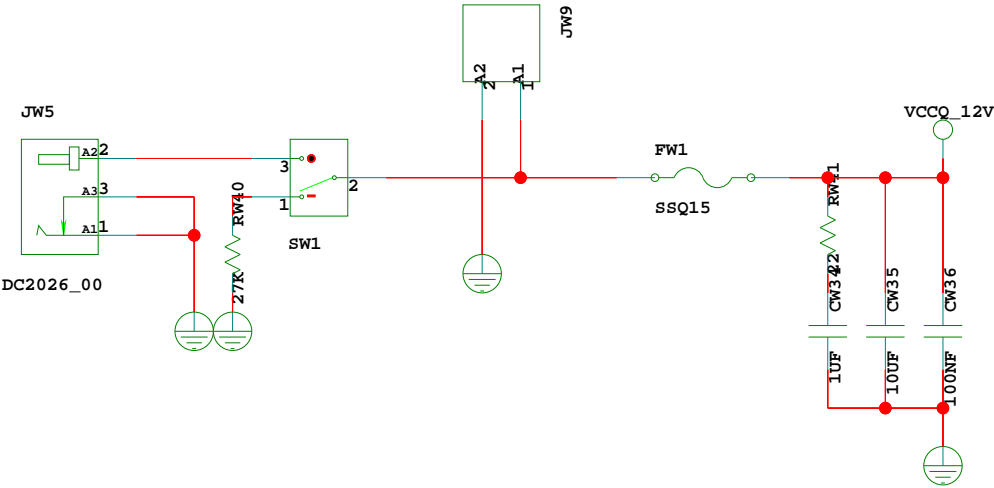
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 01	
		A	03030001	HUAWEI TECH CO.,LTD.	



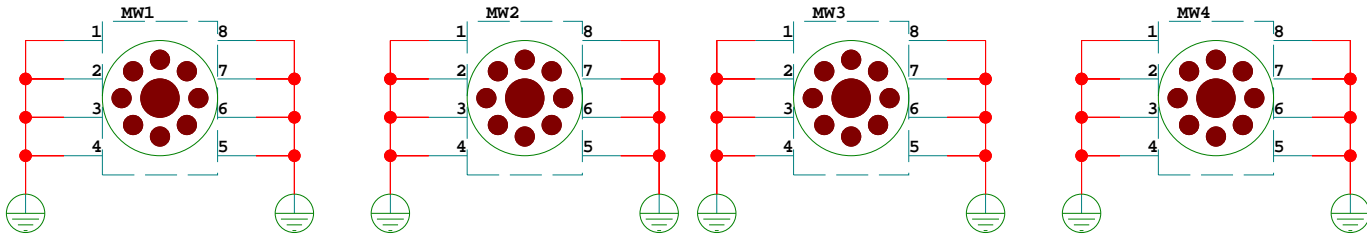
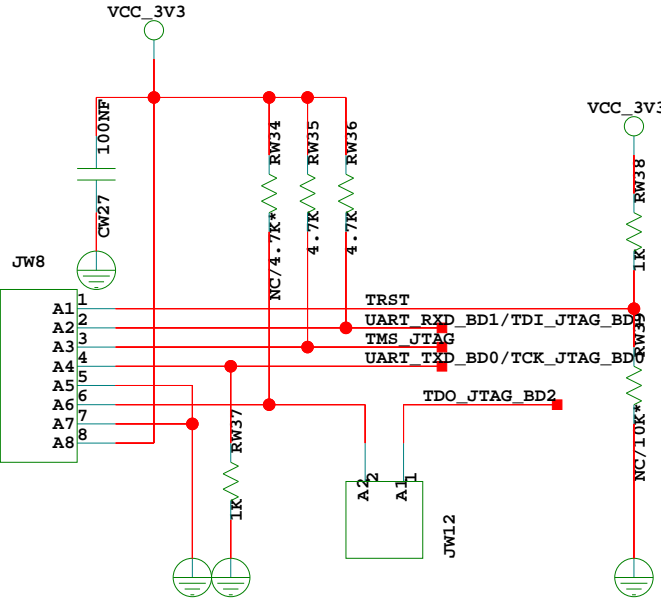
VBO RX POWER



POWER CONNECTOR



5 LINE JTAG



The type and specification of the components refer to the BOM

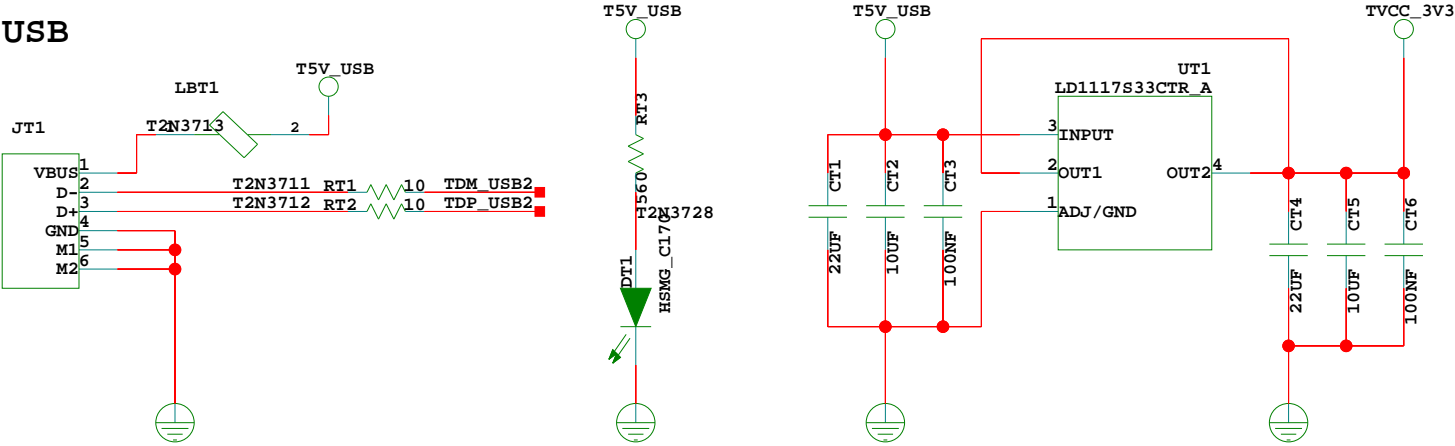
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX	VER		PART_NUMBER	
		A		03030001	
				SHEET USB2UART 06	
				HUAWEI TECH CO.,LTD.	



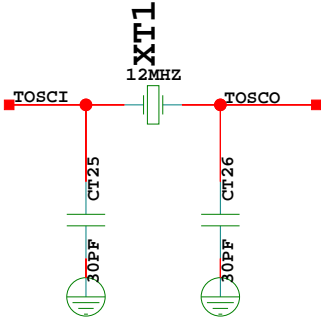


28.USB2UART 01

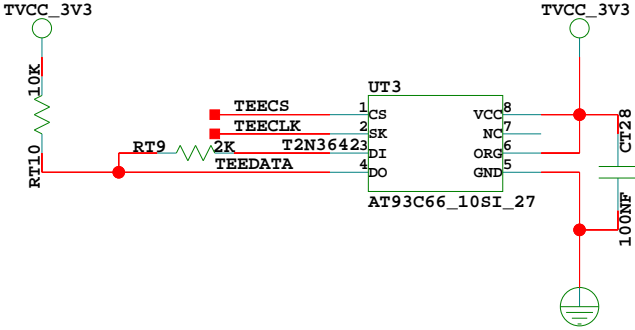
USB



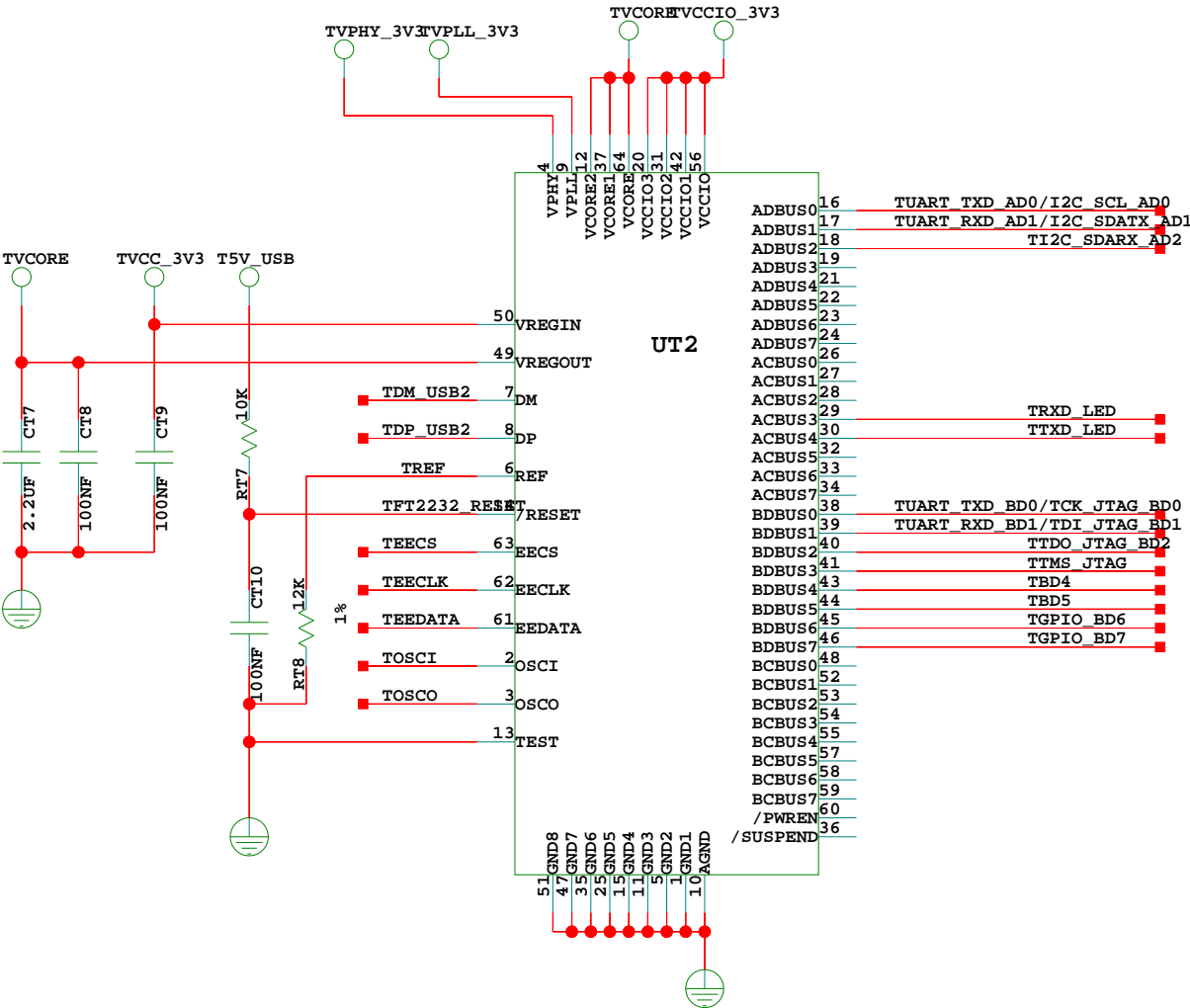
SMD XTAL



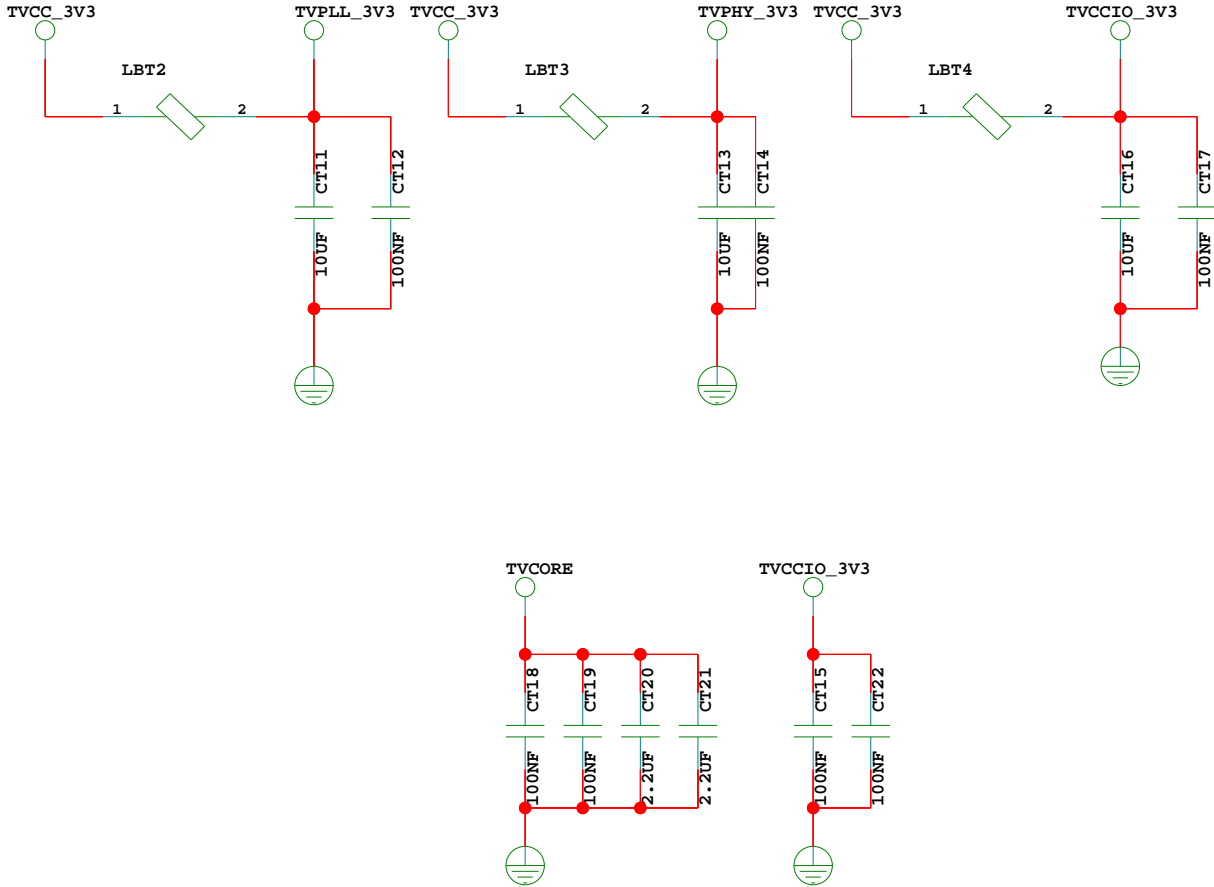
SPI\_EEPROM\_4K



SOC 2232H



SOC FILTERING CAPACITOR

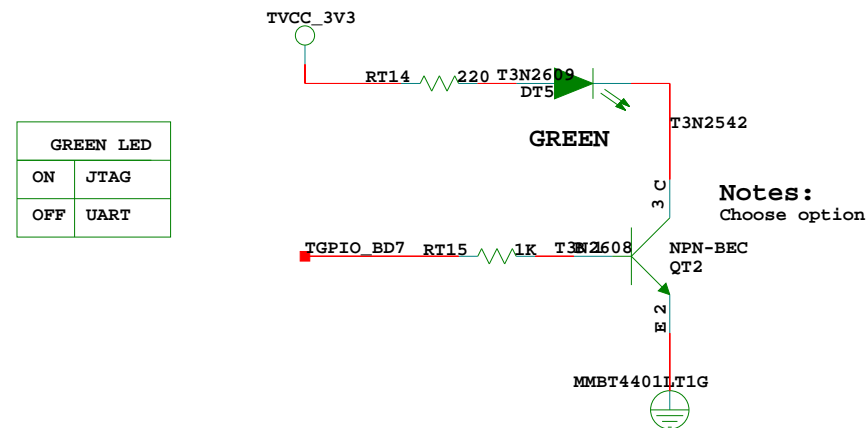


The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 01	
		A	03030001	HUAWEI TECH CO.,LTD.	

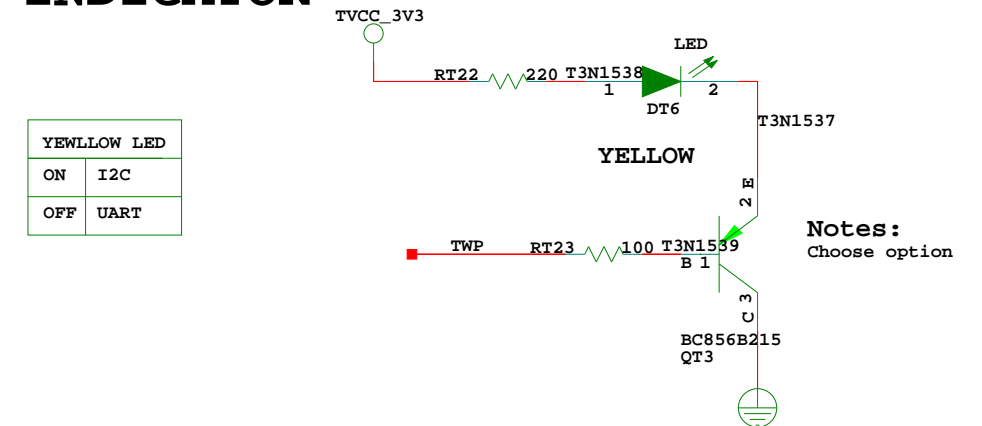
## 29.USB2UART 02

# M3V530 LED INDICATOR



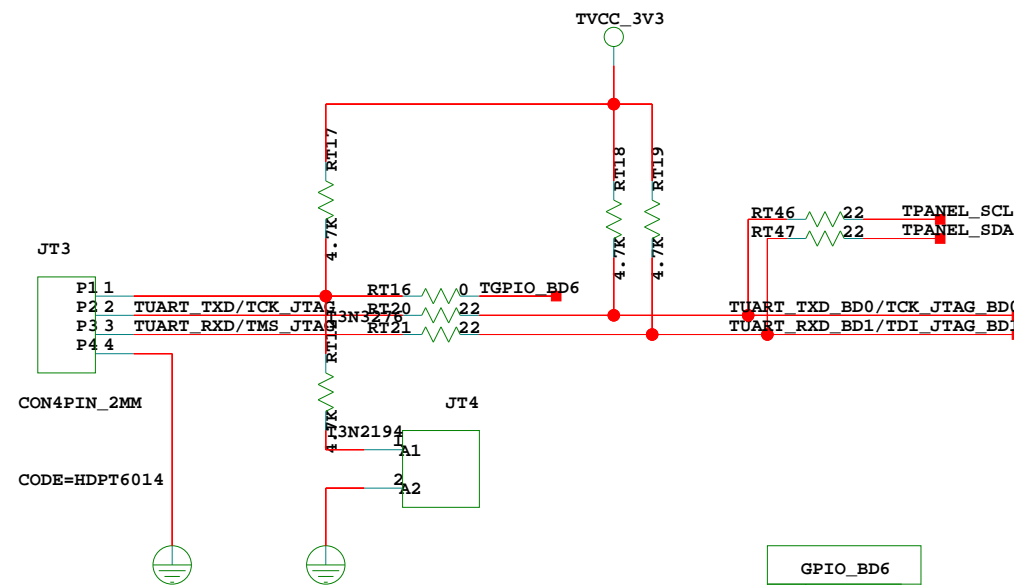
GREEN LED	
ON	JTAG
OFF	UART

## M3V2 LED INDICATOR



YEWLLOW LED	
ON	I2C
OFF	UART

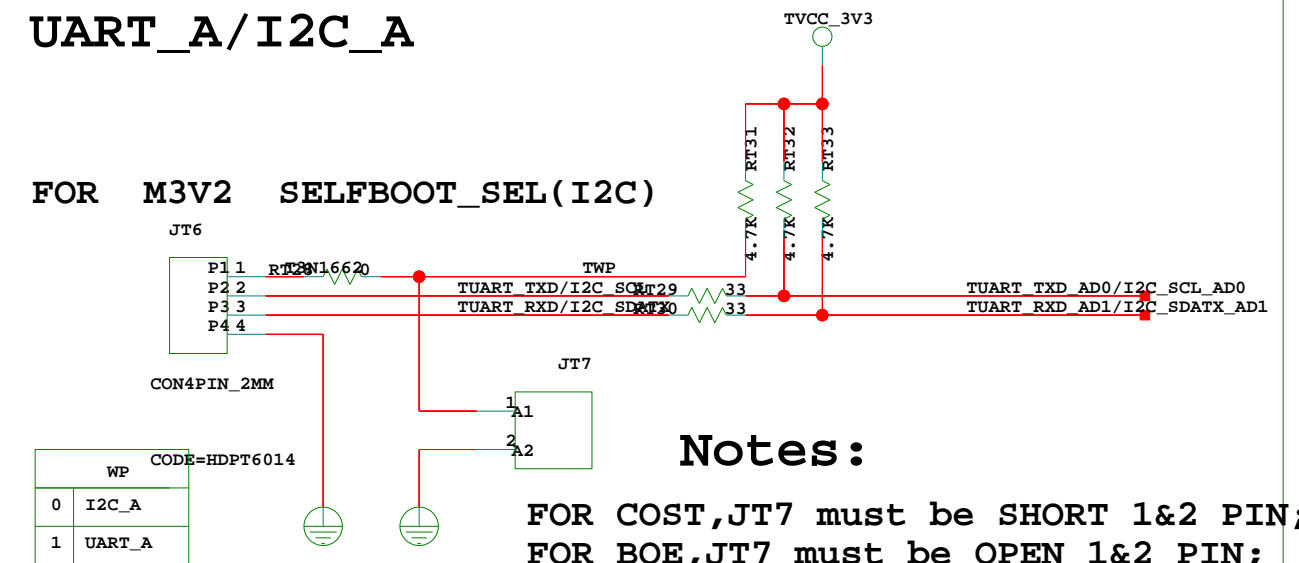
## UART\_B/JTAG\_B



GPIO_BD6	
0	UART_B
1	JTAG_B

## UART\_A/I2C\_A

**FOR M3V2 SELFBOOT\_SEL(I2C)**

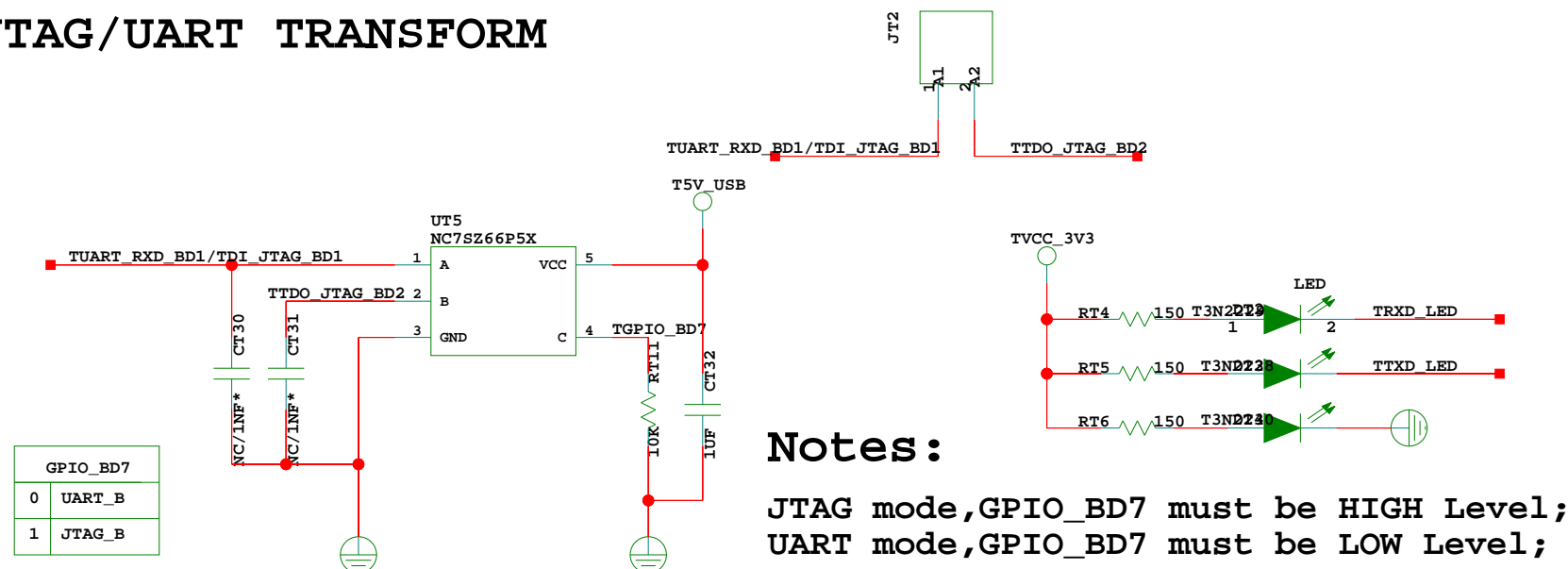


WP		CODE=HDPT6014
0	I2C_A	
1	UART_A	

## Notes:

FOR COST, JT7 must be SHORT 1&2 PIN;  
FOR BOE, JT7 must be OPEN 1&2 PIN;

## JTAG/UART TRANSFORM

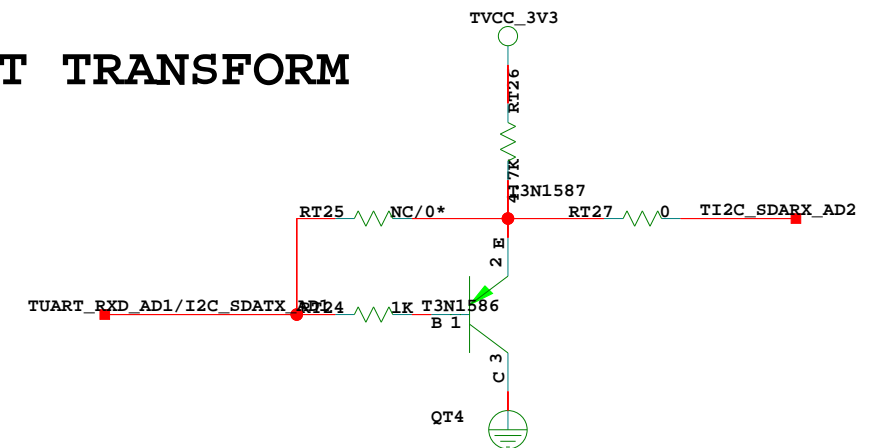


GPIO_BD7	
0	UART_B
1	JTAG_B

### Notes:

```
JTAG mode,GPIO_BD7 must be HIGH Level;
UART mode,GPIO_BD7 must be LOW Level;
```

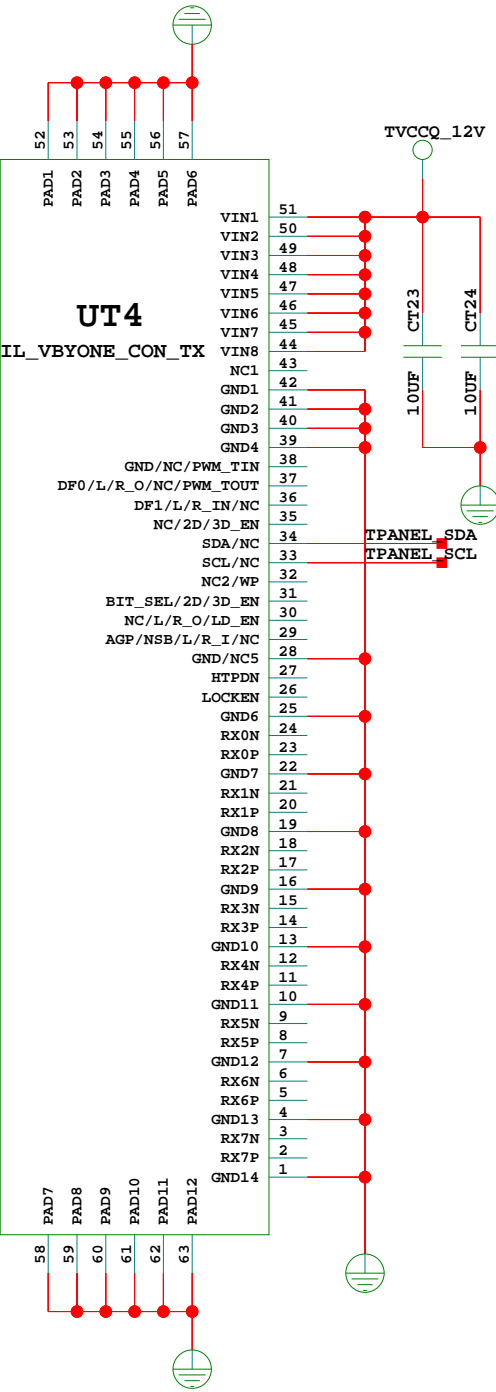
## I2C/UART TRANSFORM



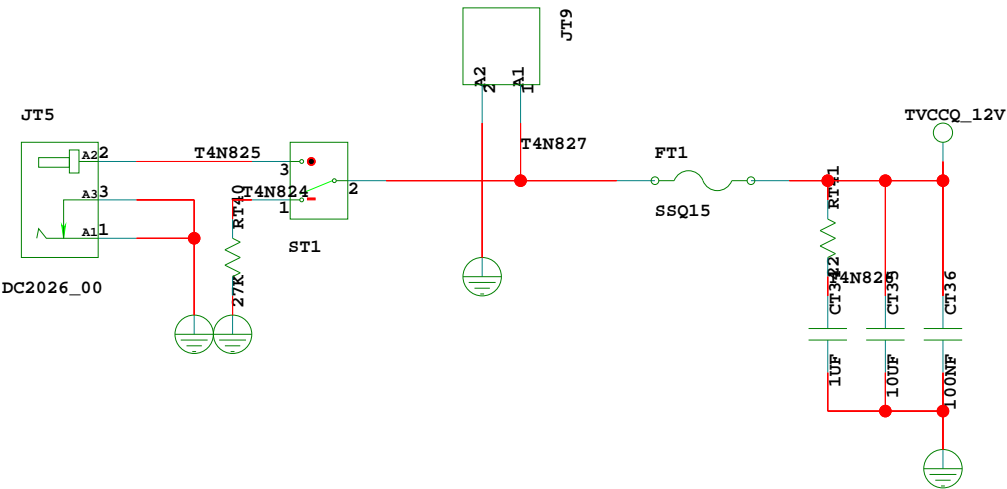
The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET	USB2025.02
		A	03030001	HUAWEI TECH CO.,LTD.	

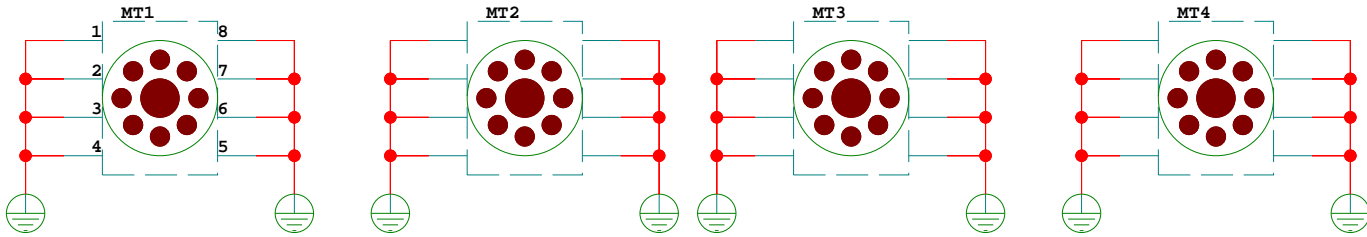
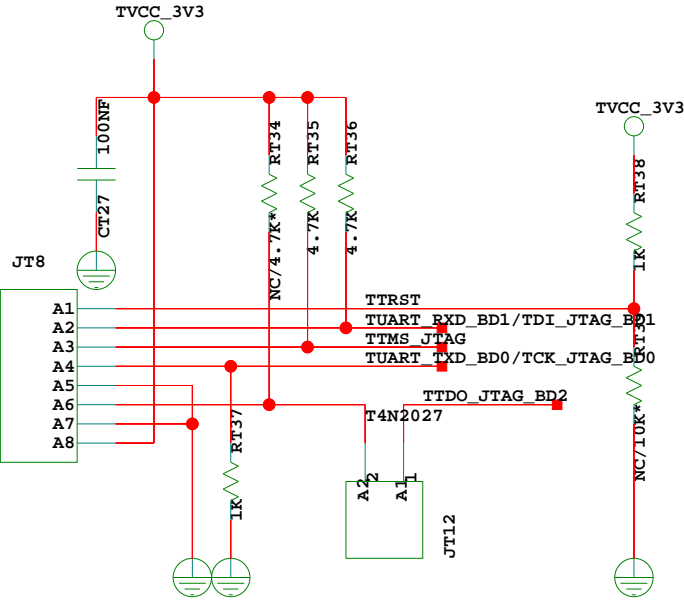
VBO RX POWER



POWER CONNECTOR



5 LINE JTAG

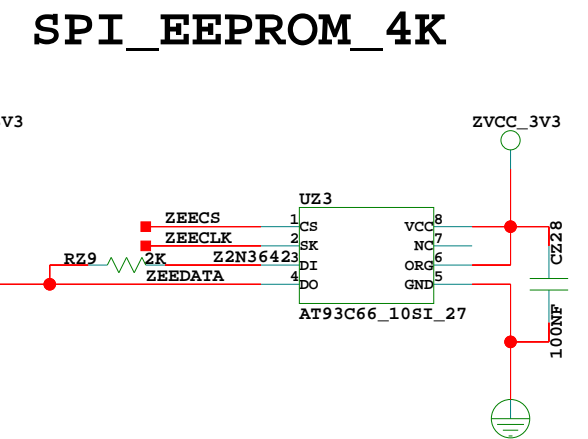
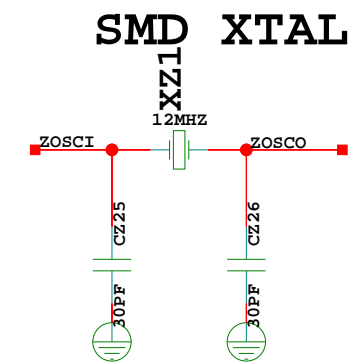
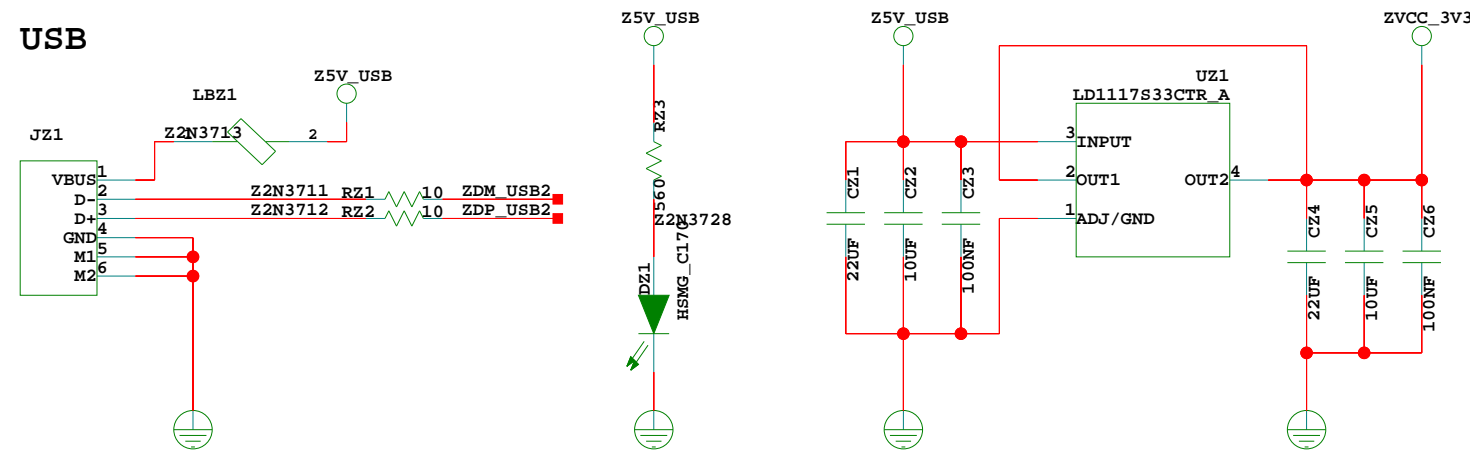


The type and specification of the components refer to the BOM

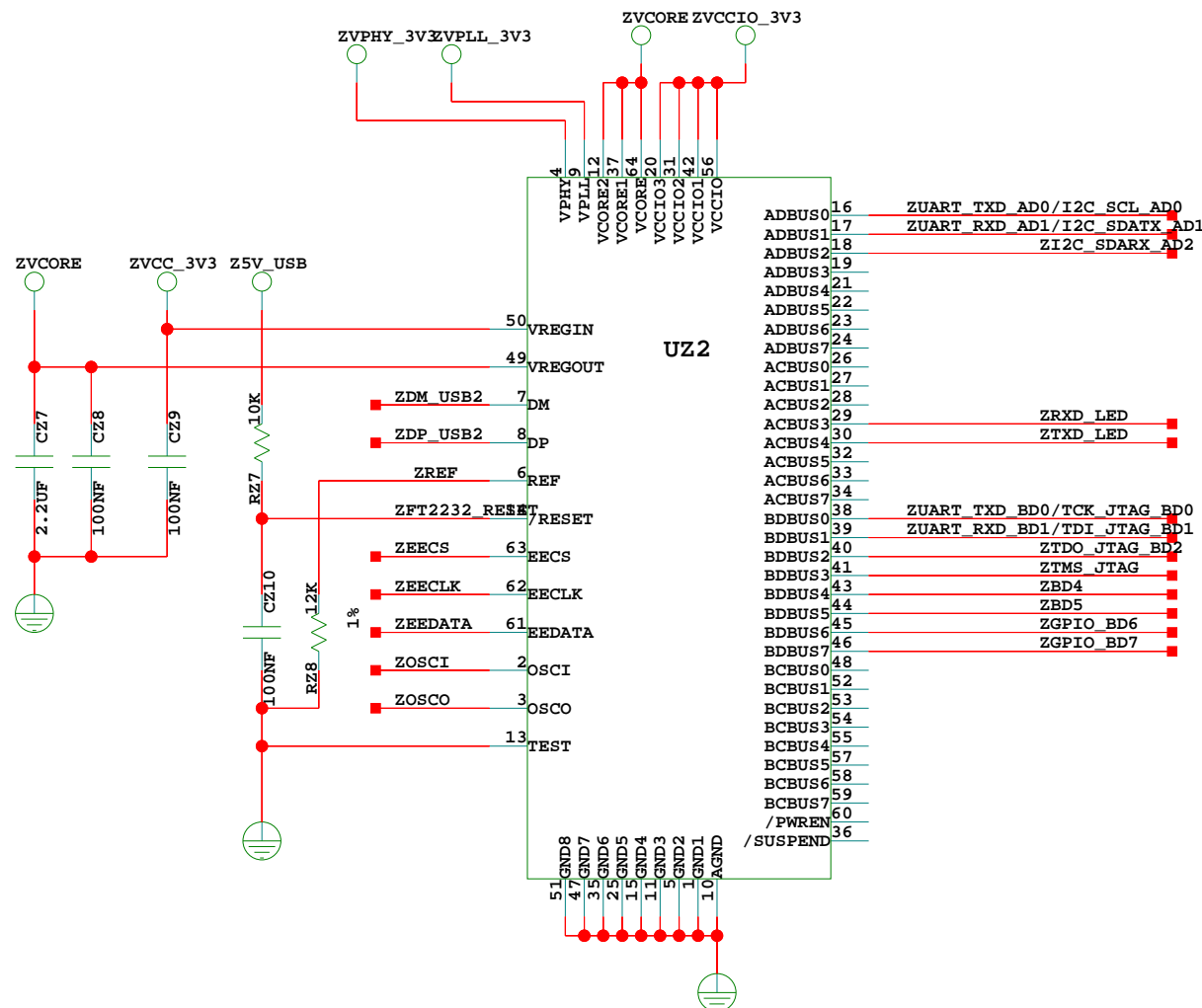
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 06	
		A	03030001	HUAWEI TECH CO.,LTD.	



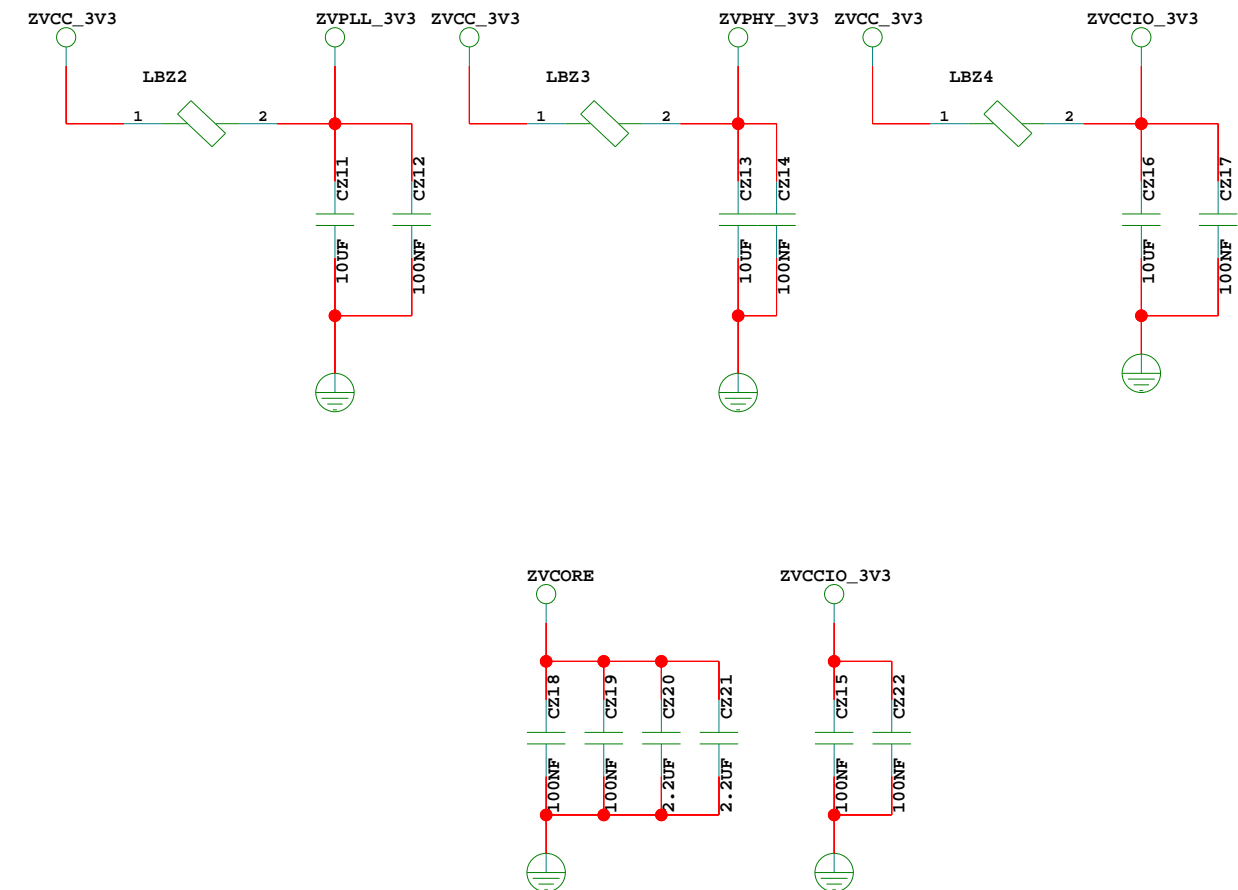
## 28.USB2UART 01



**SOC 2232H**



## SOC FILTERING CAPACITOR

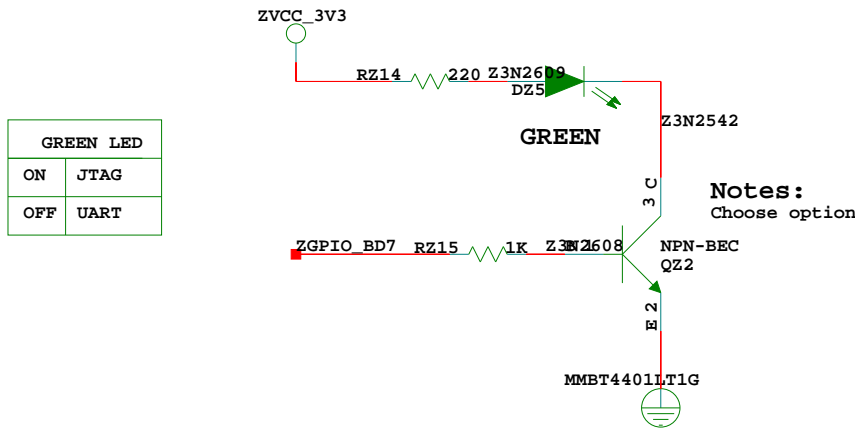


The type and specification of the components refer to the BOM

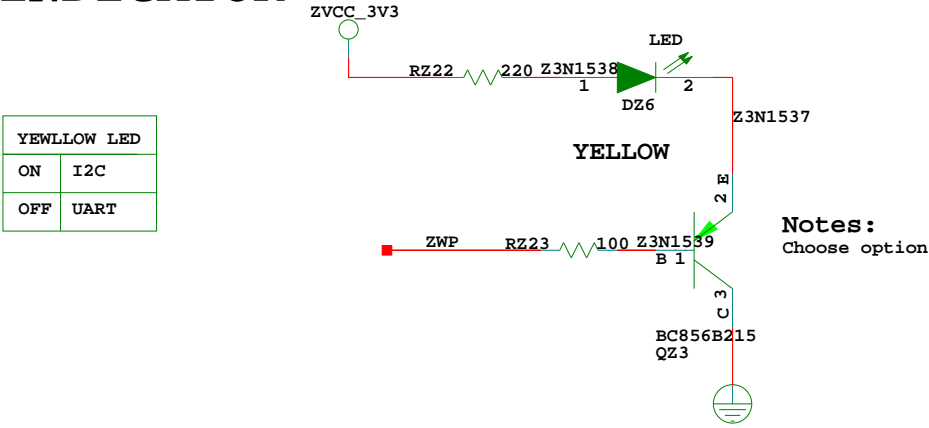
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET	USB204T 05
		A	03030001	HUAWEI TECH CO.,LTD.	

29.USB2UART 02

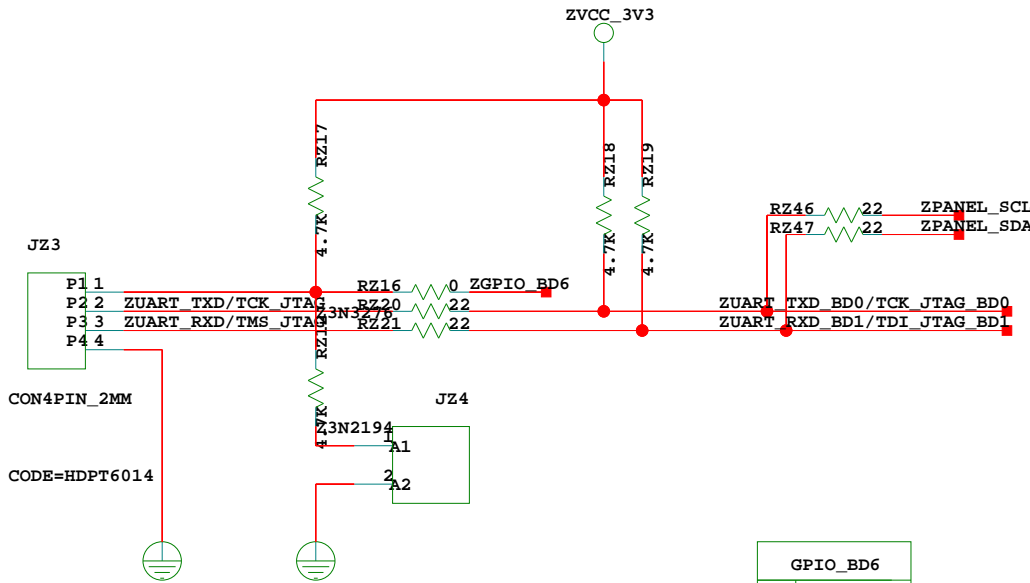
M3V530 LED INDICATOR



M3V2 LED INDICATOR

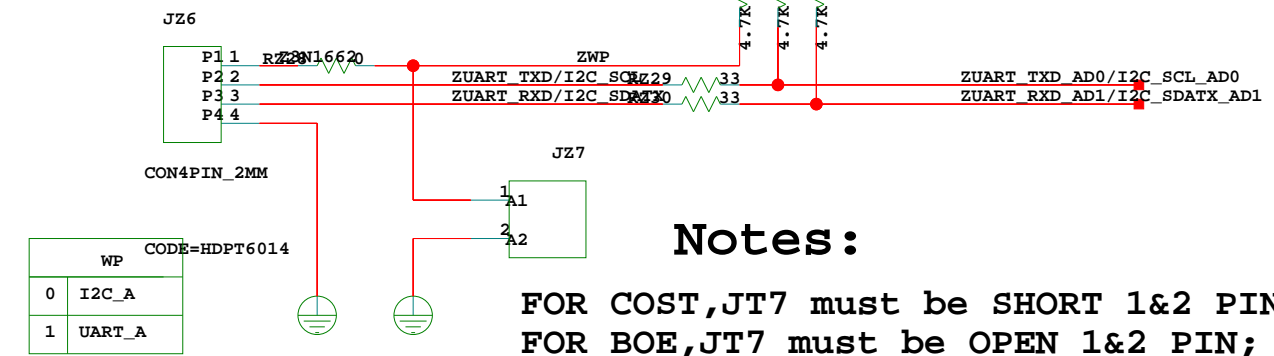


UART\_B/JTAG\_B

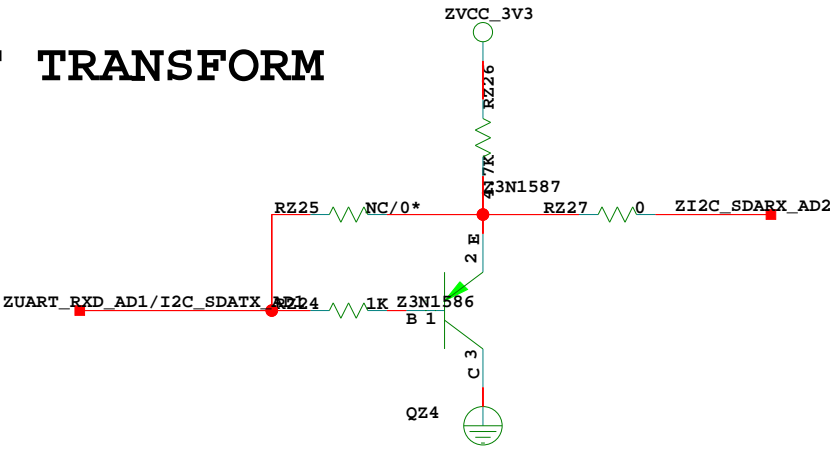


UART\_A/I2C\_A

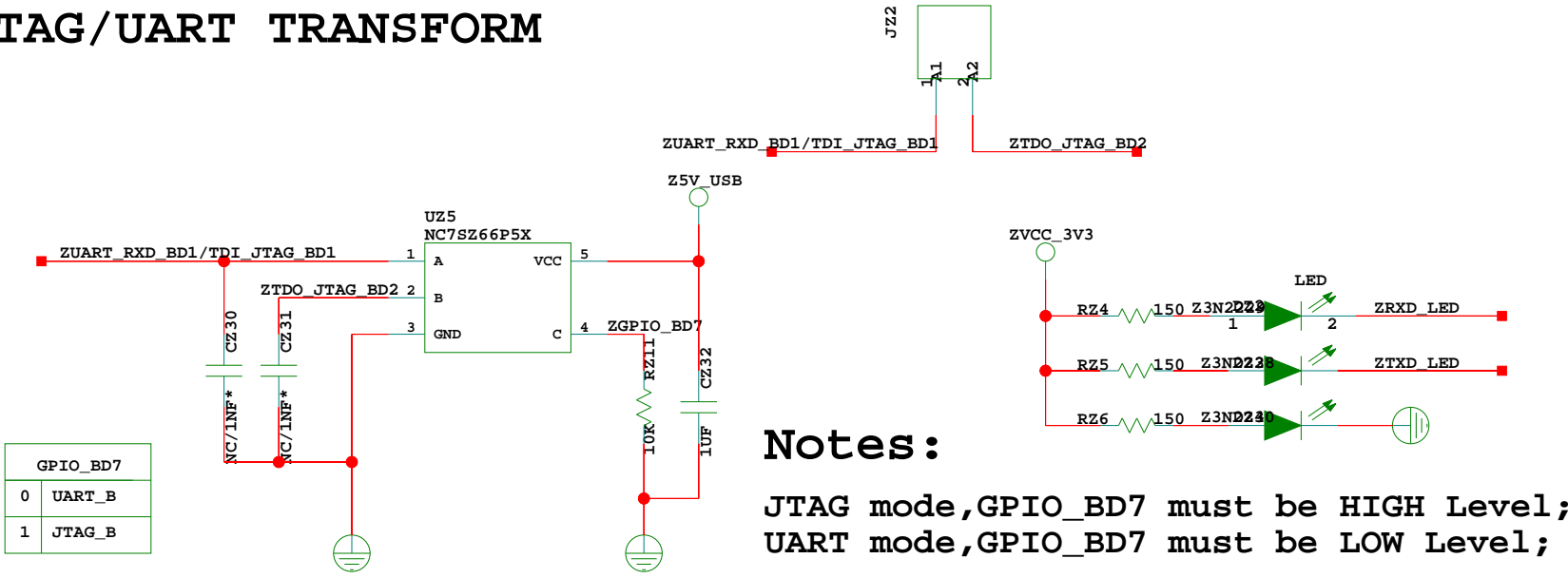
FOR M3V2 SELFBOOT\_SEL(I2C)



I2C/UART TRANSFORM



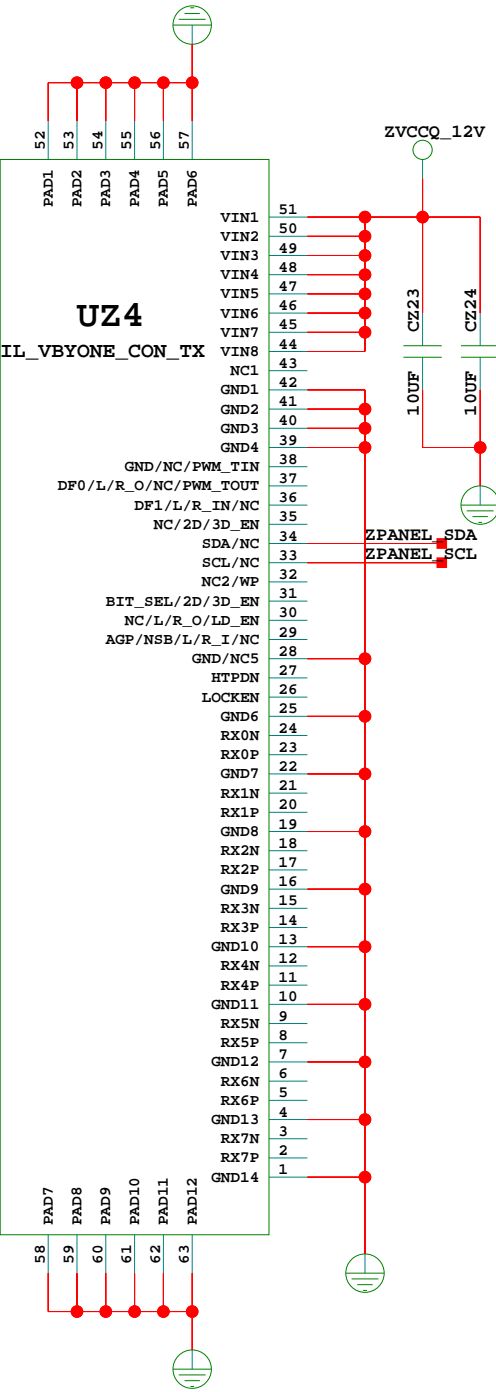
JTAG/UART TRANSFORM



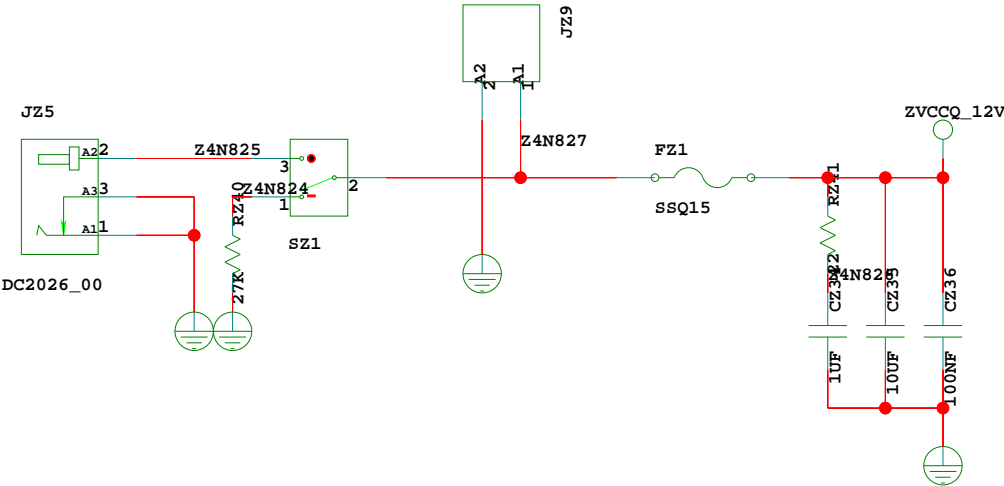
The type and specification of the components refer to the BOM

				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX				
		VER	PART_NUMBER	SHEET USB2UART 02	
		A	03030001	HUAWEI TECH CO.,LTD.	

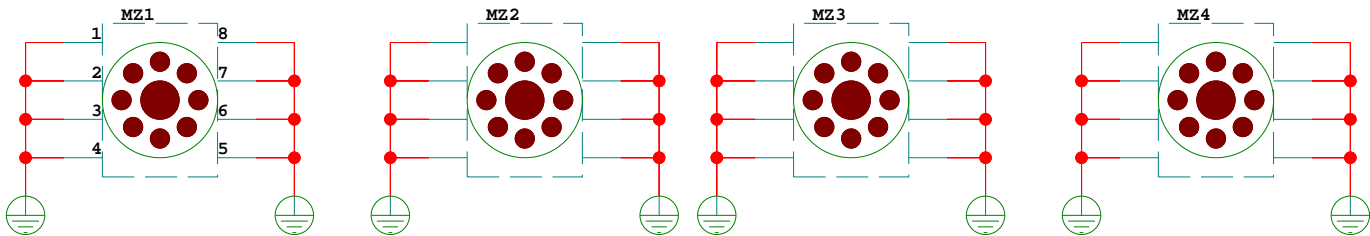
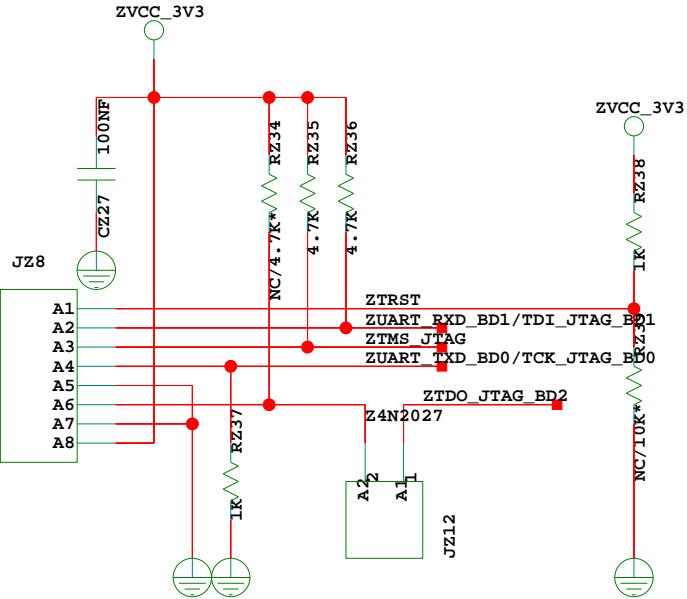
VBO RX POWER



POWER CONNECTOR



5 LINE JTAG

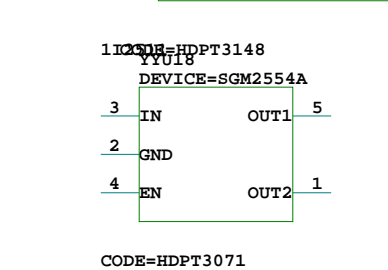
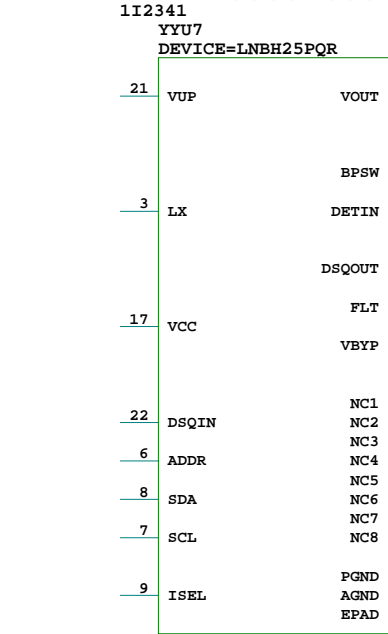
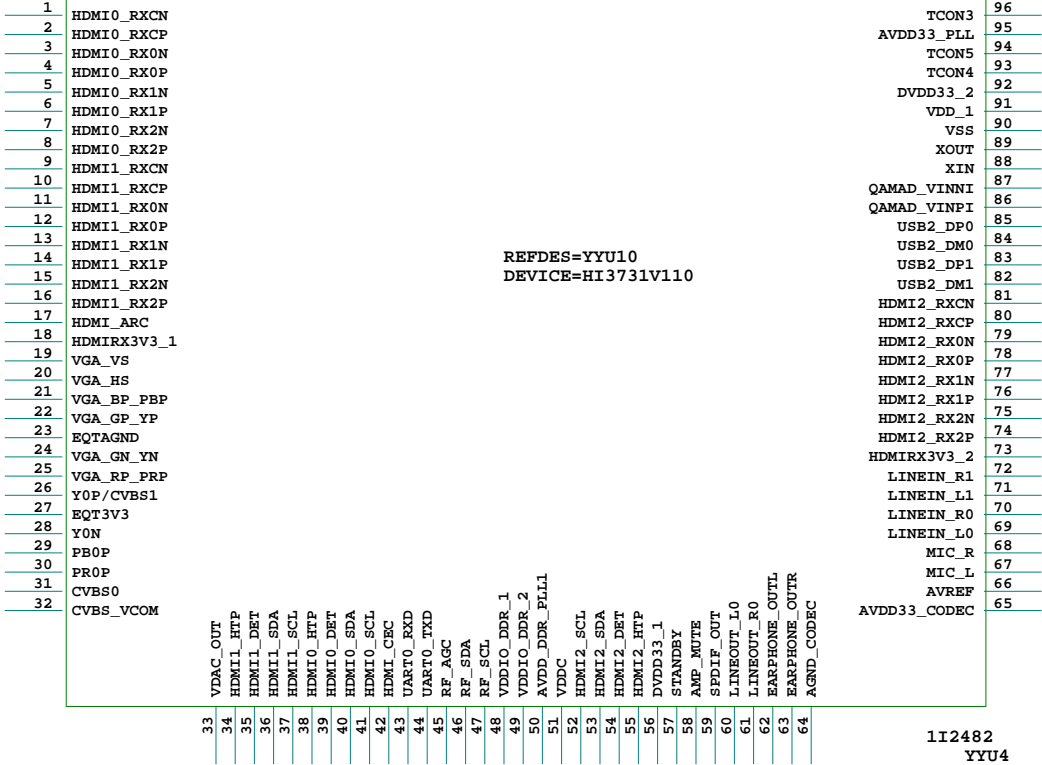


The type and specification of the components refer to the BOM

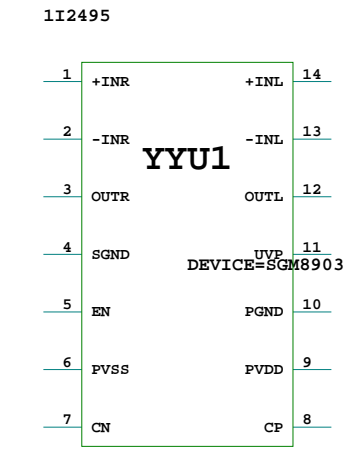
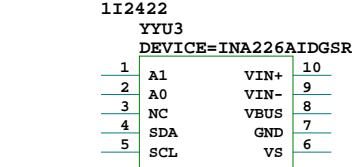
				NA	
				ECA NO	DATE
DESIGNED	ZHANGSAN XXXXX	HIDPTTCOND_VA		00001234	
REVIEWED	LISI XXXXX	VER		PART_NUMBER	
		A		03030001	
				SHEET USB2UART 06	
				HUAWEI TECH CO.,LTD.	



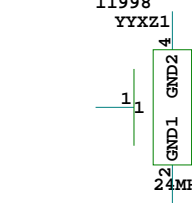
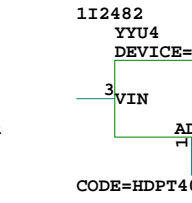
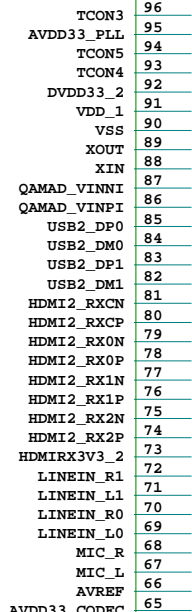
1I85



REFDES=YYU10  
DEVICE=HI3731V110

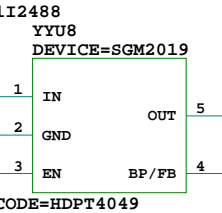


CODE=HDPT3001



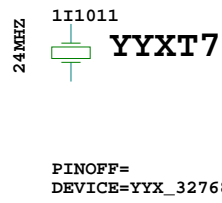
DEVICE=YYX\_B

CODE=HDPT5003

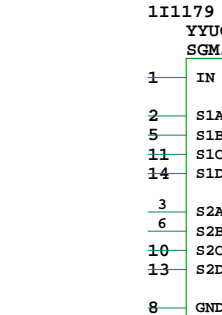


CODE=HDPT4049

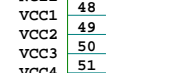
CODE=HDPT4005



PINOFF=  
DEVICE=YYX\_32768



CODE=HDPT6042



CODE=HDPT5013

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

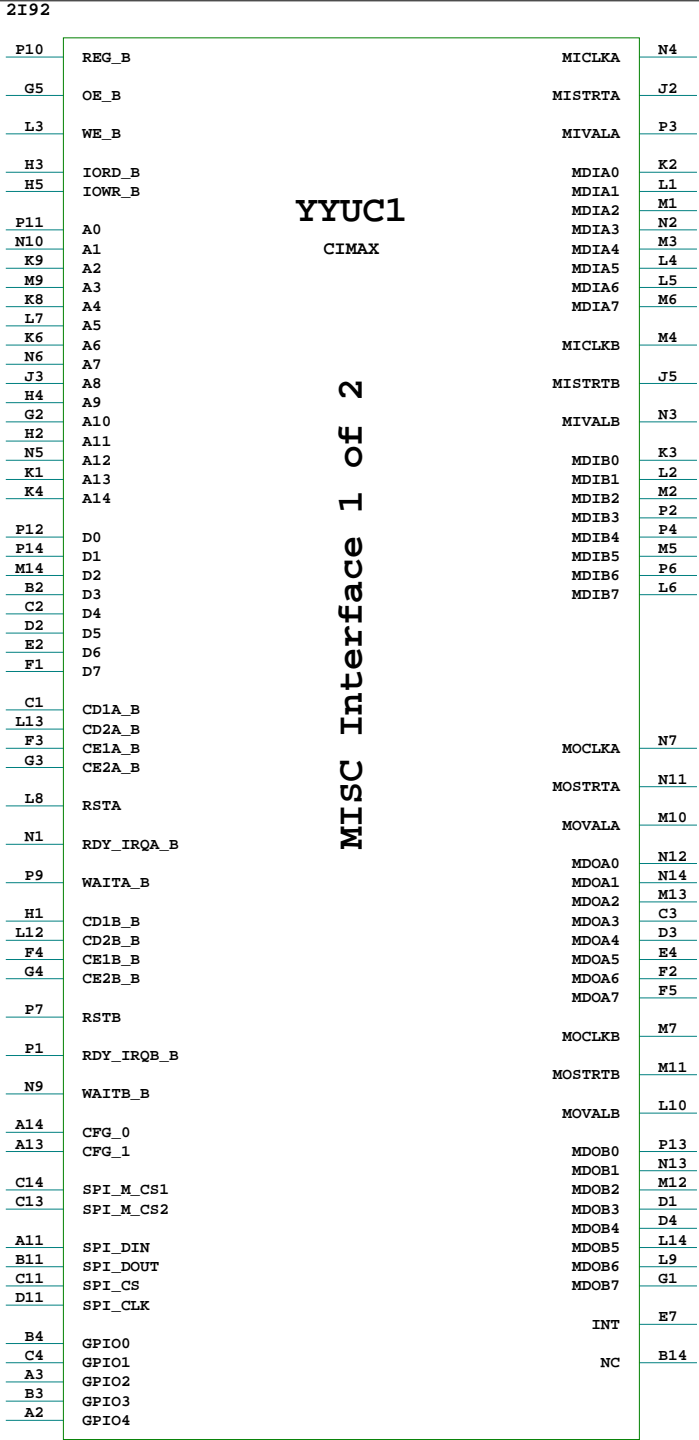
CODE=HDPT6014

CODE=HDPT3005

CODE=HDPT6014

CODE=HDPT3005

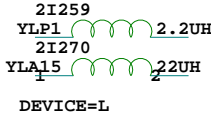
CODE=HDPT6014



YYUC1

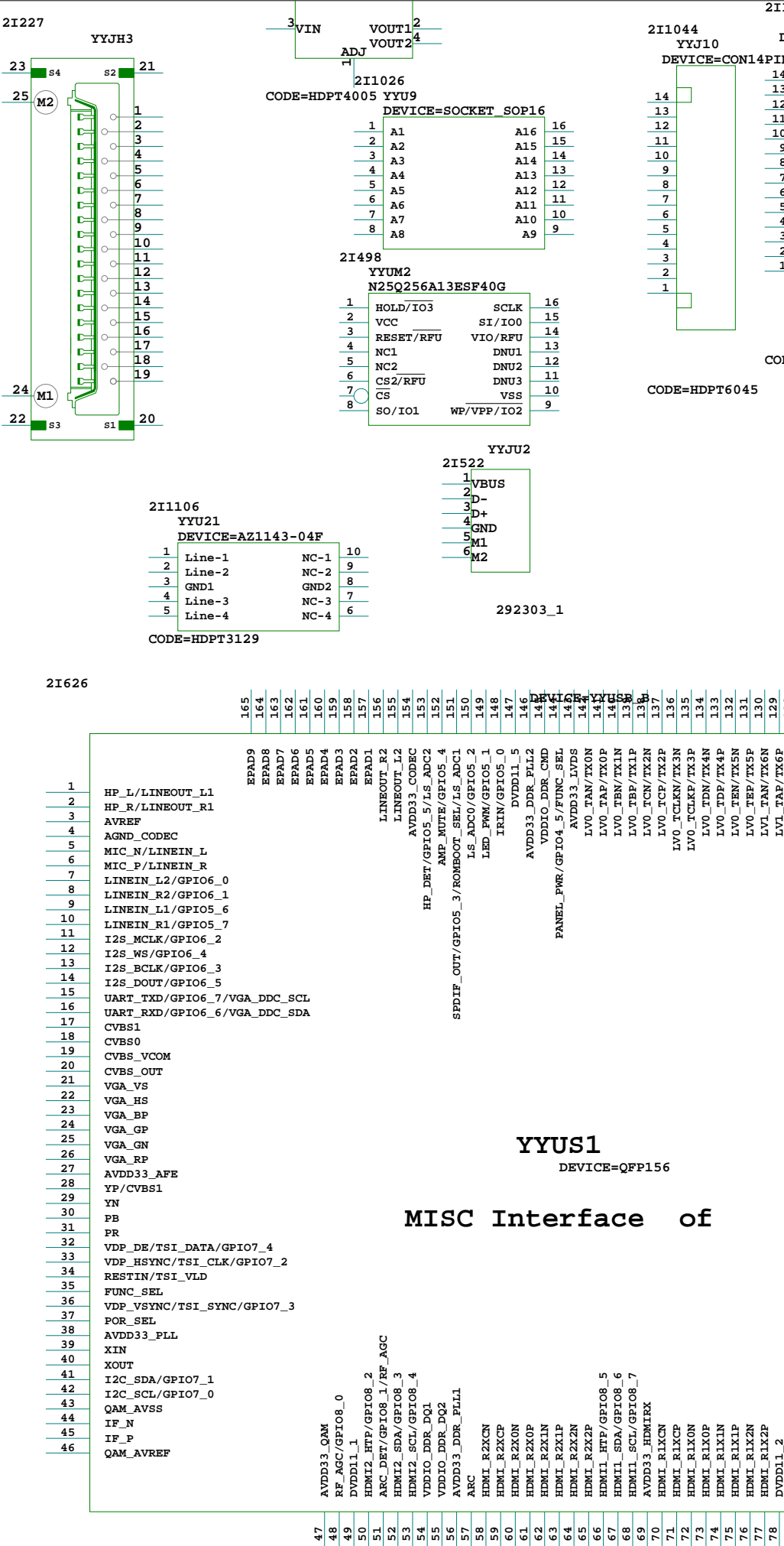
CIMAX

MISC Interface 1 of 2



PINOFF=

PINOFF=



2I1026

CODE=HDPT4005 YYU9

DEVICE=SOCKET SOP16

1

2

3

4

5

6

7

8

A1

A2

A3

A4

A5

A6

A7

A8

A16

A15

A14

A13

A12

A11

A10

A9

16

15

14

13

12

11

10

9

8

7

6

5

4

3

2

1

2I498

YYUM2

N25Q256A13ESF40G

1

2

3

4

5

6

7

8

HOLD/IO3

VCC

RESET/RFU

NC1

NC2

CS2/RFU

CS

SO/IO1

SCLK

SI/IO0

VIO/RFU

DNUI

DNUI2

DNUI3

VSS

WP/VFP/IO2

16

15

14

13

12

11

10

9

2I1044

YYJ10

DEVICE=CON14PI

14

13

12

11

10

9

8

7

6

5

4

3

2

1

2I1106

YYU21

DEVICE=AZ1143-04F

1

2

3

4

5

Line-1

Line-2

GND1

Line-3

Line-4

NC-1

NC-2

GND2

NC-3

NC-4

10

9

8

7

6

CODE=HDPT3129

2I522

YYJU2

1

2

3

4

5

6

VBUS

D-

D+

GND

M1

M2

292303\_1

2I626

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

HP\_L/LINEOUT\_L1

HP\_R/LINEOUT\_R1

AVREF

AGND\_CODEBC

MIC\_N/LINEIN\_L

MIC\_P/LINEIN\_R

LINEIN\_L2/GPIO6\_0

LINEIN\_R2/GPIO6\_1

LINEIN\_L1/GPIO5\_6

LINEIN\_R1/GPIO5\_7

I2S\_MCLK/GPIO6\_2

I2S\_WS/GPIO6\_4

I2S\_BCLK/GPIO6\_3

I2S\_DOUT/GPIO6\_5

UART\_TXD/GPIO6\_7/VGA\_DDC\_SCL

UART\_RXD/GPIO6\_6/VGA\_DDC\_SDA

CVBS1

CVBS0

CVBS\_VCOM

CVBS\_OUT

VGA\_VS

VGA\_HS

VGA\_BP

VGA\_GP

VGA\_GN

VGA\_RP

AVDD33\_AFE

YP/CVBS1

YN

PB

PR

VDP\_DE/TSI\_DATA/GPIO7\_4

VDP\_HSYNC/TSI\_CLK/GPIO7\_2

RESTIN/TSI\_VLD

FUNC\_SEL

VDP\_VSYNC/TSI\_SYNC/GPIO7\_3

POR\_SEL

AVDD33\_PLL

XIN

XOUT

I2C\_SDA/GPIO7\_1

I2C\_SCL/GPIO7\_0

QAM\_AVSS

IF\_N

IF\_P

QAM\_AVREF

EPAD9

EPAD8

EPAD7

EPAD6

EPAD5

EPAD4

EPAD3

EPAD2

EPAD1

LINEOUT\_R2

LINEOUT\_L2

AVDD33\_CODEBC

HP\_DET/GPIO5\_5/LS\_ADC2

AMP\_MUTE/GPIO5\_4

LS\_ADC0/GPIO5\_2

LS\_ADC0/GPIO5\_1

LED\_PWM/GPIO5\_0

TRIN/GPIO5\_0

DVDD11\_5

AVDD33\_DDR\_P1L2

VDDIO\_DDR\_CMD

AVDD33\_LVDS

LVO\_TAN/TX0N

LVO\_TAP/TX0P

LVO\_TEN/TX1N

LVO\_TBP/TX1P

LVO\_TCN/TX2N

LVO\_TCP/TX2P

LVO\_TCLKN/TX3N

LVO\_TCLKP/TX3P

LVO\_TDN/TX4N

LVO\_TDP/TX4P

LVO\_TEN/TX5N

LVO\_TEP/TX5P

LVO\_TAN/TX6N

LVO\_TAP/TX6P

AVDD33\_QAM

RF\_AGC/GPIO8\_0

DVDD11\_1

HDMI2\_HTP/GPIO8\_2

ARC\_DET/GPIO8\_1/RF\_AGC

HDMI2\_SDA/GPIO8\_3

HDMI2\_SCL/GPIO8\_4

VDDIO\_DDR\_DQ1

VDDIO\_DDR\_DQ2

AVDD33\_DDR\_P1L1

ARC

HDMI\_R2XCN

HDMI\_R2XCP

HDMI\_R2XON

HDMI\_R2XOP

HDMI\_R2X1N

HDMI\_R2X1P

HDMI\_R2X2N

HDMI\_R2X2P

HDMI1\_HTP/GPIO8\_5

HDMI1\_SDA/GPIO8\_6

HDMI1\_SCL/GPIO8\_7

AVDD33\_HDMITRX

HDMI\_R1XCN

HDMI\_R1XCP

HDMI\_R1XON

HDMI\_R1XOP

HDMI\_R1X1N

HDMI\_R1X1P

HDMI\_R1X2N

HDMI\_R1X2P

DVDD11\_2

YYUS1

DEVICE=QFP156

MISC Interface of

AA21	HDMI0_RX0N	QAMAD_VINNI	AF17
Y21	HDMI0_RX0P	QAMAD_VINP1	AG17
Y20	HDMI0_RX1N	RF_AGC/GPIO6_2	AD17
W21	HDMI0_RX1P	SCLT/RF_SCL/GPIO6_5	AA17
W23	HDMI0_RX2N	SDAT/RF_SDA/GPIO6_4	AB17
W22	HDMI0_RX2P		
AA23	HDMI0_RXCN		
AA22	HDMI0_RXCP	Y12S0_MCLK/PDM_SCL/GPIO4_6	AC9
U19	HDMI0_DET	I2S0_BCLK/PDM_D0/GPIO4_7	AD9
T18	HDMI0_HTP	I2S0_WS/PDM_D1/GPIO5_0	AB9
T20	HDMI0_SCL/STB_GPIO18_7(FS)	I2S0_DIO0/PDM_D2/GPIO5_1	AA10
T19	HDMI0_SDA/STB_GPIO19_0(FS)	I2S0_DIO1/PDM_D3/GPIO5_2	AB10
		I2S0_DIO2/GPIO5_3	AA11
T17	HDMI_CEC/STB_GPIO19_5(FS)	DEVICE=HI3751V561	AB11
		AD17/I2S0_DIO3/GPIO5_4	
U18	ARC_PAD	I2S1_MCLK/JTAG_TRSTN/GPIO4_1	AE9
		I2S1_BCLK/JTAG_TCK/GPIO4_3	AD8
AD21	HDMI1_RX0N	I2S1_WS/JTAG_TMS/GPIO4_2	AD7
AC23	HDMI1_RX0P	I2S1_DIO0/JTAG_TDI/GPIO4_4	AE7
AC22	HDMI1_RX1N	I2S1_DIO1/JTAG_TDO/GPIO4_5	AF7
AC21	HDMI1_RX1P		
AB20	HDMI1_RX2N	SPDIF_OUT/GPIO4_0	AA12
AB21	HDMI1_RX2P		
AD22	HDMI1_RXCN		
AD23	HDMI1_RXCP	AVREF	AD12
W19	HDMI1_DET	AVRM	AE13
V18	HDMI1_HTP		
U17	HDMI1_SCL/STB_GPIO19_1(FS)	LINEIN_L0	AG11
V19	HDMI1_SDA/STB_GPIO19_2(FS)	LINEIN_R0	AE11
		LINEIN_L1	AD11
		LINEIN_R1	AE12
AG21	HDMI2_RX0N		
AF21	HDMI2_RX0P	LINEOUT_L0	AB14
AG22	HDMI2_RX1N	LINEOUT_R0	AB15
AF22	HDMI2_RX1P	LINEOUT_L1	AG13
AF23	HDMI2_RX2N	EARPHONE_OUTL/LINEOUT_L1	AF13
AE22	HDMI2_RX2P	EARPHONE_OUTR/LINEOUT_R1	
AE20	HDMI2_RXCN		
AE21	HDMI2_RXCP		
W17	HDMI2_DET	CVBS0	AB16
AA20	HDMI2_HTP	CVBS_VCOM	AC16
V17	HDMI2_SCL/STB_GPIO19_3(FS)	VDAC_OUT	AA16
W18	HDMI2_SDA/STB_GPIO19_4(FS)		
		VGA_RP_PRP	AE16
Y18	TSI0_CLK/GPIO2_6	VGA_GP_YP	AD15
AB19	TSI0_SYNC/GPIO3_0	VGA_GN_YN	AF15
Y17	TSI0_VLD/GPIO2_7	VGA_BP_PBP	AG15
AA18	TSI0_D0/GPIO3_1	VGA_HS	AD14
AC20	TSI0_D1/GPIO3_2/TSI1_CLK/DISEQC_OUT	VGA_VS	AE14
AD20	TSI0_D2/GPIO3_3/TSI1_D0/DISEQC_IN		
AC19	TSI0_D3/GPIO3_4/TSI1_SYNC/AGC0		
AC17	TSI0_D4/GPIO3_5/TSI1_VLD/AGC1		
AC18	TSI0_D5/GPIO3_6/TSI1_D1/GPIO_2		
AF19	TSI0_D6/GPIO3_7/IN		
AG19	TSI0_D7/GPIO2_5/TP		
AE18	QN		
AE17	QP		

L14	VDD1	VDDIO_DDR0_1	A4
L15	VDD2	VDDIO_DDR0_2	B4
L19	VDD3	VDDIO_DDR0_3	C5
M15	VDD4	VDDIO_DDR0_4	D5
M16	VDD5	VDDIO_DDR0_5	E6
M17	VDD6	VDDIO_DDR0_6	F7
M18	VDD7	VDDIO_DDR0_7	H9
M19	VDD8	VDDIO_DDR0_8	H10
N16	VDD9	VDDIO_DDR0_9	J9
N17	VDD10	VDDIO_DDR0_10	J10
		VDDIO_DDR0_11	J11
J18	CPU_VDD1	VDDIO_DDR0_12	J12
J19	CPU_VDD2	VDDIO_DDR0_13	K10
J20	CPU_VDD3	VDDIO_DDR0_14	K11
J21	CPU_VDD4		
J22	CPU_VDD5	VDDIO_DDR1_1	A3
J23	CPU_VDD6	VDDIO_DDR1_2	B3
K17	CPU_VDD7	VDDIO_DDR1_3	C4
K18	CPU_VDD8	VDDIO_DDR1_4	D4
		VDDIO_DDR1_5	E5
		VDDIO_DDR1_6	F6
U10	DVDD33_1		
U11	DVDD33_2	AVDD33_DDR0_PLL	R10
		AVDD33_DDR1_PLL	T10
Y10	DVDD33_STB1		
AA9	DVDD33_STB2	AVDD1833_EMMC	L21
V10	AVDD33_PLL	AVDD33_FE_USB	U13
M14	AVDD09_COMBTX		
		AVDD33_AUDIO	V11
U12	AVDD33_COMBTX		
		AVDD33_AFE_QAM	V12
N15	AVDD09_HDMIRX		
V13	AVDD33_HDMIRX	VDD_LDO_DECAP	AG7

E16	DDR0_DQ0	DDR0_DQ10	DDR0_A6	DDR0_A0	E7
C15	DDR0_DQ1	DDR0_DQ1	DDR0_A5	DDR0_A1	F14
C20	DDR0_DQ2	DDR0_DQ0	DDR0_A4	DDR0_A2	D10
C14	DDR0_DQ3	DDR0_DQ3	DDR0_BA0	DDR0_A3	E8
G16	DDR0_DQ4	DDR0_DQ14	DDR0_A15	DDR0_A4	E14
A14	DDR0_DQ5	DDR0_DQ7	DDR0_A8	DDR0_A5	F8
C21	DDR0_DQ6	DDR0_DQ4	DDR0_A3	DDR0_A6	F13
B14	DDR0_DQ7	DDR0_DQ5	DDR0_A0	DDR0_A7	F10
A16	DDR0_DQ8	DDR0_DQ15	DDR0_A12	DDR0_A8	G12
A20	DDR0_DQ9	DDR0_DQ8	DDR0_A11	DDR0_A9	F11
B16	DDR0_DQ10	DDR0_DQ13	DDR0_A16	DDR0_A10	G14
B20	DDR0_DQ11	DDR0_DQ12	DDR0_A10	DDR0_A11	G11
C17	DDR0_DQ12	DDR0_DQ9	DDR0_BG1	DDR0_A12	D11
E17	DDR0_DQ13	DDR0_DQ2	DDR0_A2	DDR0_A13	E11
C16	DDR0_DQ14	DDR0_DQ11	DDR0_ACT	DDR0_A14	F12
D16	DDR0_DQ15	DDR0_DQ6	DDR0_A1	DDR0_A15	B10
F19	DDR0_DQ16	DDR0_DQ22			
C22	DDR0_DQ17	DDR0_DQ17	DDR0_BG0	DDR0_BA0	C7
H22	DDR0_DQ18	DDR0_DQ16	DDR0_BA1	DDR0_BA1	C11
B23	DDR0_DQ19	DDR0_DQ19	DDR0_A9	DDR0_BA2	C9
F20	DDR0_DQ20	DDR0_DQ18			
A22	DDR0_DQ21	DDR0_DQ23	DDR0_A7	DDR0_CASN	A10
H23	DDR0_DQ22	DDR0_DQ20	DDR0_A14	DDR0_RASN	C6
B22	DDR0_DQ23	DDR0_DQ21	DDR0_A13	DDR0_WEN	D9
E18	DDR0_DQ24	DDR0_DQ31			
F22	DDR0_DQ25	DDR0_DQ30	DDR0_CLK_C	DDR0_CLK_N	A12
D18	DDR0_DQ26	DDR0_DQ27	DDR0_CLK_T	DDR0_CLK_P	B12
G21	DDR0_DQ27	DDR0_DQ28			
G19	DDR0_DQ28	DDR0_DQ25	DDR0_DM0	DDR0_DM0	G15
G20	DDR0_DQ29	DDR0_DQ24	DDR0_DM1	DDR0_DM1	E15
G18	DDR0_DQ30	DDR0_DQ29	DDR0_DM2	DDR0_DM2	E19
F23	DDR0_DQ31	DDR0_DQ26	DDR0_DM3	DDR0_DM3	D20
C18	DDR0_DQ\$0_N	DDR0_DQ\$0_C	DDR0_CKE0	DDR0_CKE0	D13
C19	DDR0_DQ\$0_P	DDR0_DQ\$0_T	DDR0_CKE1	DDR0_CKE1	A8
A18	DDR0_DQ\$1_N	DDR0_DQ\$1_C	DDR0_CSN0	DDR0_CSN0	C13
B18	DDR0_DQ\$1_P	DDR0_DQ\$1_T	DDR0_CSN1	DDR0_CSN1	B8
E20	DDR0_DQ\$2_N	DDR0_DQ\$2_C	DDR0_ODT	DDR0_ODT	A6
E21	DDR0_DQ\$2_P	DDR0_DQ\$2_T			
D22	DDR0_DQ\$3_N	DDR0_DQ\$3_C	DDR0_RESETN	DDR0_RESETN	D8
D23	DDR0_DQ\$3_P	DDR0_DQ\$3_T	DDR0_ZQ	DDR0_ZQ	D6

AE5	STANDBY/STB_GPIO18_0 (FS)				EMMC_D0
					EMMC_D1
AE6	IRIN/STB_GPIO18_0 (FS)				EMMC_D2
					EMMC_D3
					EMMC_D4
AB6	LED_PWM/STB_GPIO18_1				EMMC_D5
					EMMC_D6
					EMMC_D7
AC4	FUNC_SEL				EMMC_DQS
					EMMC_CLK
					EMMC_CMD
					EMMC_RSTN
AF6	STB_GPIO18_2				
AE5	STB_GPIO18_3				
AD6	LS_ADC0/STB_GPIO20_2				COMB_TX0N
AC5	LS_ADC1/STB_GPIO20_3				COMB_TX0P
					COMB_TX1N
AC6	UART0_RXD/VGA_DDC_SCL/JTAG_2PINS_TCK (FS)				COMB_TX1P
AC7	UART0_TXD/VGA_DDC_SDA/JTAG_2PINS_TMS (FS)				COMB_TX2N
					COMB_TX2P
AD4	XIN				COMB_TX3N
AE4	XOUT				COMB_TX3P
AE19	XTAL_OUT/GPIO6_1				COMB_TX4N
					COMB_TX4P
Y14	STANDBY_IO/STB_GPIO20_1 (FS)				COMB_TX5N
AC12	STB_GPIO20_4				COMB_TX5P
AC13	STB_GPIO20_5				COMB_TX6N
Y15	STB_GPIO20_6				COMB_TX6P
AA14	STB_GPIO20_7/FUNC_SEL_DEMOD				COMB_TX7N
					COMB_TX7P
R16	BRI_PWM/GPIO0_0 (FS)				COMB_TX8N
P17	BLK_ON/GPIO0_1 (FS)				COMB_TX8P
N19	CORE_PWM/GPIO5_7				COMB_TX9N
P16	CPU_PWM/GPIO6_0				COMB_TX9P
					COMB_TX10N
					COMB_TX10P
					COMB_TX11N
					COMB_TX11P
W6	I2C1_SCL/GPIO2_4				
W7	I2C1_SDA/GPIO2_3				
V8	PWR_EN/GPIO0_6				
R19	TCON0/SPI0_DOUT/BRI_PWM1/GPIO0_2				USB2_DM0
R18	TCON1/SPI0_DIN/GPIO0_3				USB2_DP0
P18	TCON2/SPI0_CSN/BRI_PWM3/GPIO0_4				
R17	TCON3/SPI0_CLK/BRI_PWM2/GPIO0_5				USB2_DM1
V6	TCON4/VB00_HPN/GPIO0_7				USB2_DP1
V5	TCON5/VB00_LOCKN/P2P_SDLOCK/GPIO1_0				
U5	TCON6/LHSYNC/GPIO1_1				USB2_DM2
U7	TCON7/LVSYNC/GPIO1_2				USB2_DP2
V7	TCON8/LDE/GPIO1_3				
W5	TCON10/P2P_XSTB/GPIO1_5				
AA3	TCON13/DEMURA_CLK/GPIO2_0				FE_RN
Y7	TCON15/DEMURA_CSN/GPIO2_2				FE_RP
AA4	TCON11/DEMURA_DIO/GPIO1_6				FE_TN
Y6	TCON14/DEMURA_DOI/GPIO2_1				FE_TP
Y5	TCON9/DEMURA_HOLDN/LCK/GPIO1_4				
AA6	TCON12/DEMURA_WPN/GPIO1_7				

	DDR3-2L	DDR4-2L		DDR4-2L	DDR3-2L	
G6	DDR1_DQ0	DDR1_DQ0	<div> <div>YYU14</div> <div>DEVICE=HI3751V56</div> <div>MISC Interface of</div> </div>	DDR1_BA0	DDR1_A0	P2
F2	DDR1_DQ1	DDR1_DQ1		DDR1_A13/ZQ	DDR1_A1	M6
H7	DDR1_DQ2	DDR1_DQ2		DDR1_A4	DDR1_A2	P8
F3	DDR1_DQ3	DDR1_DQ3		DDR1_A8	DDR1_A3	R8
H5	DDR1_DQ4	DDR1_DQ4		DDR1_A7	DDR1_A4	L7
G4	DDR1_DQ5	DDR1_DQ7		DDR1_A11	DDR1_A5	T6
G7	DDR1_DQ6	DDR1_DQ4		DDR1_A9	DDR1_A6	M5
G3	DDR1_DQ7	DDR1_DQ5		DDR1_A0	DDR1_A7	R6
K6	DDR1_DQ8	DDR1_DQ11		DDR1_A3/ZQ	DDR1_A8	M7
G5	DDR1_DQ9	DDR1_DQ8		DDR1_A6	DDR1_A9	M3
J5	DDR1_DQ10	DDR1_DQ15		DDR1_A5	DDR1_A10	J4
F5	DDR1_DQ11	DDR1_DQ12		DDR1_ACT	DDR1_A11	P7
E3	DDR1_DQ12	DDR1_DQ13		DDR1_A1	DDR1_A12	J7
A2	DDR1_DQ13	DDR1_DQ10		DDR1_A2	DDR1_A13	R7
E4	DDR1_DQ14	DDR1_DQ9		DDR1_A12	DDR1_A14	N8
B2	DDR1_DQ15	DDR1_DQ14		DDR1_A10	DDR1_A15	N5
				DDR1_BG0	DDR1_BA0	P1
				DDR1_A16	DDR1_BA1	J3
				DDR1_BA1	DDR1_BA2	K4
				DDR1_A15	DDR1_CASN	K2
			DDR1_A14/VPP	DDR1_RASN	P3	
			DDR1_BG1	DDR1_WEN	K3	
			DDR1_CLK_C	DDR1_CLK_N	H3	
			DDR1_CLK_T	DDR1_CLK_P	H2	
			DDR1_DM0	DDR1_DM0	J6	
			DDR1_DM1	DDR1_DM1	B1	
			DDR1_CKE	DDR1_CKE	M1	
			DDR1_CSN	DDR1_CSN	M4	
			DDR1_ODT/VPP	DDR1_ODT	P4	
			DDR1_RESETN	DDR1_RESETN	N3	
			DDR1_ZQ	DDR1_ZQ	R4	
C2	DDR1_DQS0_N	DDR1_DQS0_C				
C1	DDR1_DQS0_P	DDR1_DQS0_T				
D3	DDR1_DQS1_N	DDR1_DQS1_C				
D2	DDR1_DQS1_P	DDR1_DQS1_T				

[illegible]