

VIVAX

Made for you

TV-40LE100T2S2

EN
Service manual



LCD Television

Service Manual

Chassis: MSD3463

Product: HE40M2160FTS/H40M2100S/H40M2106S/H40M2108S
H40MEC2150S/H40MEC2155S

Ver 1.0

Hisense Electric Co., Ltd.

March 4, 2016

Content

Content	- 2 -
Service Manual	- 3 -
1. Precautions and notices.....	- 3 -
1.1 Warning.....	- 4 -
1.2 Notes.....	- 7 -
2. Product Specifications	- 10 -
2.1 Main board layout.....	- 10 -
2.2 The service manual Includes products.....	- 11 -
2.3 TV Front and Rear	- 12 -
3. Factory/Service OSD Menu and Adjustment.....	- 16 -
3.1 How to enter the Factory OSD Menu	- 16 -
3.2 Factory OSD Menu.....	- 16 -
4. Software updating.....	- 19 -
4.1 USB upgrade.....	- 19 -
4.2 SIS Tool upgrade	- 20 -
5. Troubleshooting	- 25 -
6. Circuit instruction	- 31 -
Power assign and Main board signal process	- 31 -
7. Schematic circuit diagram	- 33 -
8. Explode View.....	- 33 -

Service Manual

1. Precautions and notices

BEFORE SERVICING THE LCD TV, READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

WHEN REPLACEMENT PARTS ARE REQUIRED, BE SURE TO USE REPLACEMENT PARTS SPECIFIED BY THE MANUFACTURER.

Proper service and repair is important to the safe, reliable operation of all Hisense Electric Co., Ltd Equipment. The service procedures recommended by Hisense and described in this Service Guide are effective methods of performing service operations.

Some of service

operations require the use of tools specially designed for the purpose. The special tools should be used when and as recommended.

It is important to note that this manual contains various CAUTIONS and NOTICES which should be carefully read in order to minimize the risk of personal injury to service personnel. The possibility exists that improper service methods may damage the equipment. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Hisense could not possibly know, evaluate and advise the service trade of all conceivable ways in which service might be done or of the possible hazardous consequences of each way. Consequently, Hisense has not

undertaken any such broad evaluation. Accordingly, a serviceman that uses a service procedure or tools, which are not recommended by Hisense, must first satisfy himself thoroughly that neither his safety nor the safe of the equipment will be jeopardized by the service method selected.

Hereafter throughout this manual, Hisense Electric Co., Ltd will be referred to as Hisense.

1.1 Warning

1.1.1

Critical components having special safety characteristics are identified with a ▲ by the Ref. No. in the parts list. Use of substitute replacement parts, which do not have the same specified safety characteristics, may create shock, fire, or other hazards.

Under no circumstances should the original design be modified or altered without written permission from Hisense. Hisense assumes no liability, express or implied, arising out of any unauthorized modification of design. Serviceman assumes all liability.

DANGER CAUTION

TO ENSURE THE CONTINUED RELIABILITY OF THIS PRODUCT, USE ONLY ORIGINAL MANUFACTURER'S REPLACEMENT PARTS, WHICH ARE LISTED WITH THEIR PART NUMBERS IN THE PARTS LIST SECTION OF THIS SERVICE GUIDE.

1.1.2.

All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically. When repairing, make sure that

you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential.

1. Never replace modules or other components while the unit is switched on.

2. When making settings, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

1.1.3

To prevent electrical shock, do not use this polarized ac plug with an extension cord, receptacle, or the outlet unless the blades can be fully inserted to prevent blade exposure.

To prevent electrical shock, match wide blade or plug to wide slot, fully insert.

1.1.4

When replacement parts are required, be sure to use replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

1.1.5

Safety regulations require that after a repair the set must be returned in its original condition. In particular attention should be paid to the following points.

-Note: The wire trees should be routed correctly and fixed with the mounted

cable clamps.

-The insulation of the mains lead should be checked for external damage.

1.1.6

(1) Do not touch Signal and Power Connector while this product operates. Do not touch EMI ground part and Heat Sink of Film Filter.

(2) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.

(3) Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it. Do not install or use the product in a location that does not satisfy the specified environmental conditions. This may damage the product and may cause a fire.

(4) If a foreign substance (such as water, metal, or liquid) gets inside the panel module, immediately turn off the power. Continuing to use the product may cause fire or electric shock.

(5) If the product emits smoke, and abnormal smell, or makes an abnormal sound, immediately turn off the power. Continuing to use the product, it may cause fire or electric shock.

(6) Do not disconnect or connect the connector while power to the product is on. It takes some time for the voltage to drop to a sufficiently low level after the power has been turned off. Confirm that the voltage has dropped to a safe level before disconnecting or connecting the connector.

(7) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.

(8) Do not damage or modify the power cable. It may cause fire or electric shock.

(9) If the power cable is damaged, or if the connector is loose, do not use the product: otherwise, this can lead to fire or electric shock.

(10) If the power connector or the connector of the power cable becomes dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to fire.

(11) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

1.2 Notes

Notes on Safe Handling of the LCD panel and during service

The work procedures shown with the Note indication are important for ensuring the safety of the product and the servicing work. Be sure to follow these instructions.

- Before starting the work, secure a sufficient working space.
- At all times other than when adjusting and checking the product, be sure to turn OFF the POWER Button and disconnect the power cable from the power source of the TV during servicing.
- To prevent electric shock and breakage of PC board, start the servicing work at least 30 seconds after the main power has been turned off. Especially when installing and

removing

the power board, start servicing at least 2 minutes after the main power has been turned off.

- While the main power is on, do not touch any parts or circuits other than the ones specified.

If any connection other than the one specified is made between the measuring equipment and the high voltage power supply block, it can result in electric shock or activation of the leakage-detection circuit breaker.

- When installing the LCD module in, and removing it from the packing carton, be sure to have at least two persons perform the work.
- When the surface of the panel comes into contact with the cushioning materials, be sure to confirm that there is no foreign matter on top of the cushioning materials before the surface of the panel comes into contact with the cushioning materials.

Failure to observe this precaution may result in, the surface of the panel being scratched by foreign matter.

- When handling the circuit board, be sure to remove static electricity from your body before handling the circuit board.
- Be sure to handle the circuit board by holding the large parts as the heat sink or transformer. Failure to observe this precaution may result in the occurrence of an abnormality in the soldered areas.
- Do not stack the circuit boards. Failure to observe this precaution may result in

problems resulting from scratches on the parts, the deformation of parts, and short-circuits due to residual electric charge.

- Routing of the wires and fixing them in position must be done in accordance with the original routing and fixing configuration when servicing is completed. All the wires are routed far away from the areas that become hot (such as the heat sink). These wires are fixed in position with the wire clamps so that the wires do not move, thereby ensuring that they are not damaged and their materials do not deteriorate over long periods of time. Therefore, route the cables and fix the cables to the original position and states using the wire clamps.
- Perform a safety check when servicing is completed. Verify that the peripherals of the serviced points have not undergone any deterioration during servicing. Also verify that the screws, parts and cables removed for servicing purposes have all been returned to their proper locations in accordance with the original setup.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



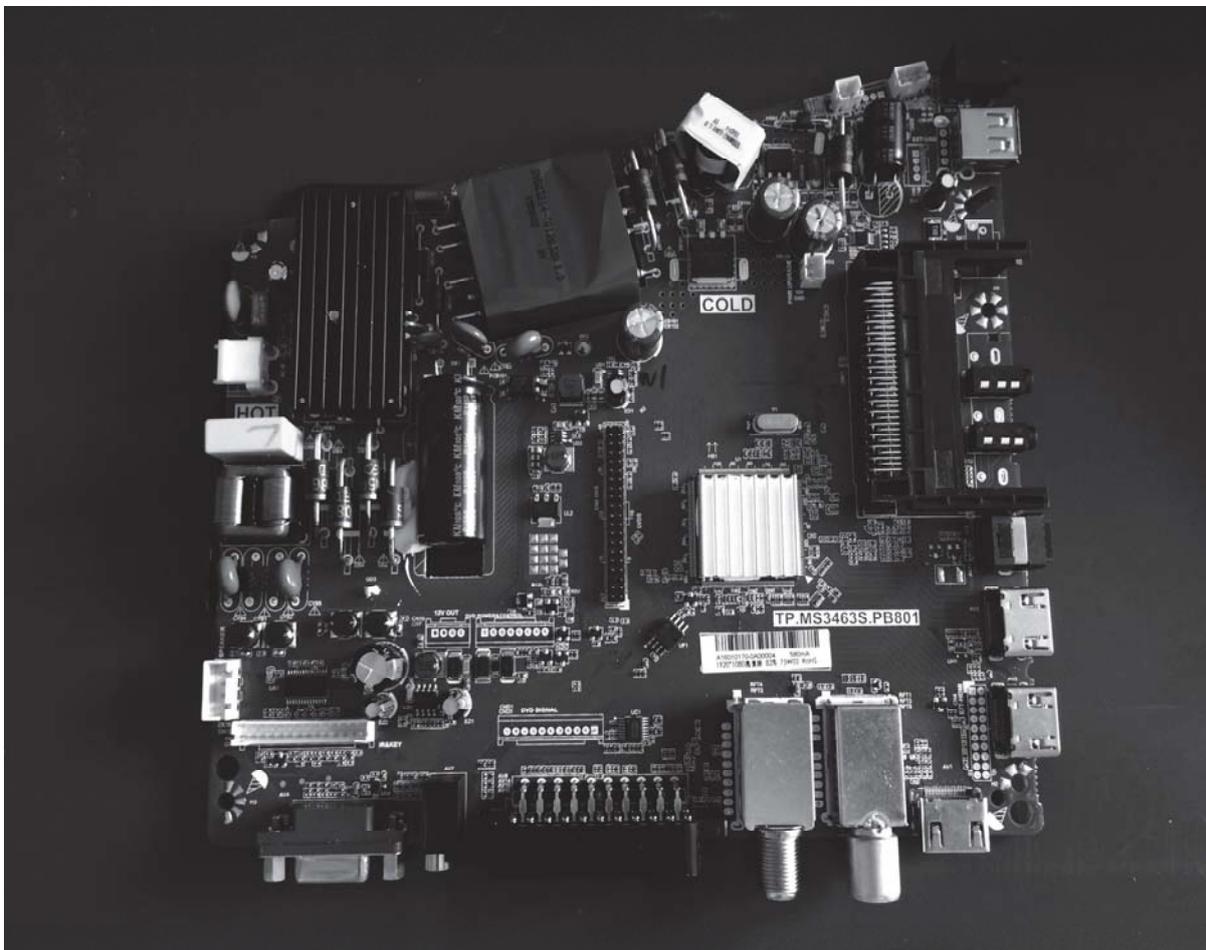
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the set.

2. Product Specifications

2.1 Main board layout

2.1.1

Use board: TP.MS3463S.PB801

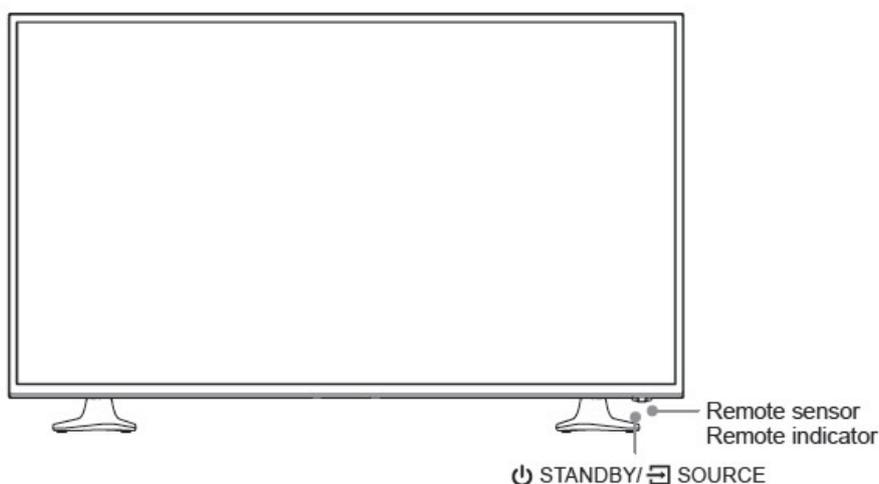


2.2 The service manual Includes products

Product	Main & power board(one board)	Digital system	Panel	LVDS cable
HE40M2160FTS	3463S\HE40M2160FTS\ROH	T2+C+S2	JHD400DF-E31	HX-2X20-L-500P-FFC\guangdong \500\ROH

2.3 TV Front and Rear

TV Front



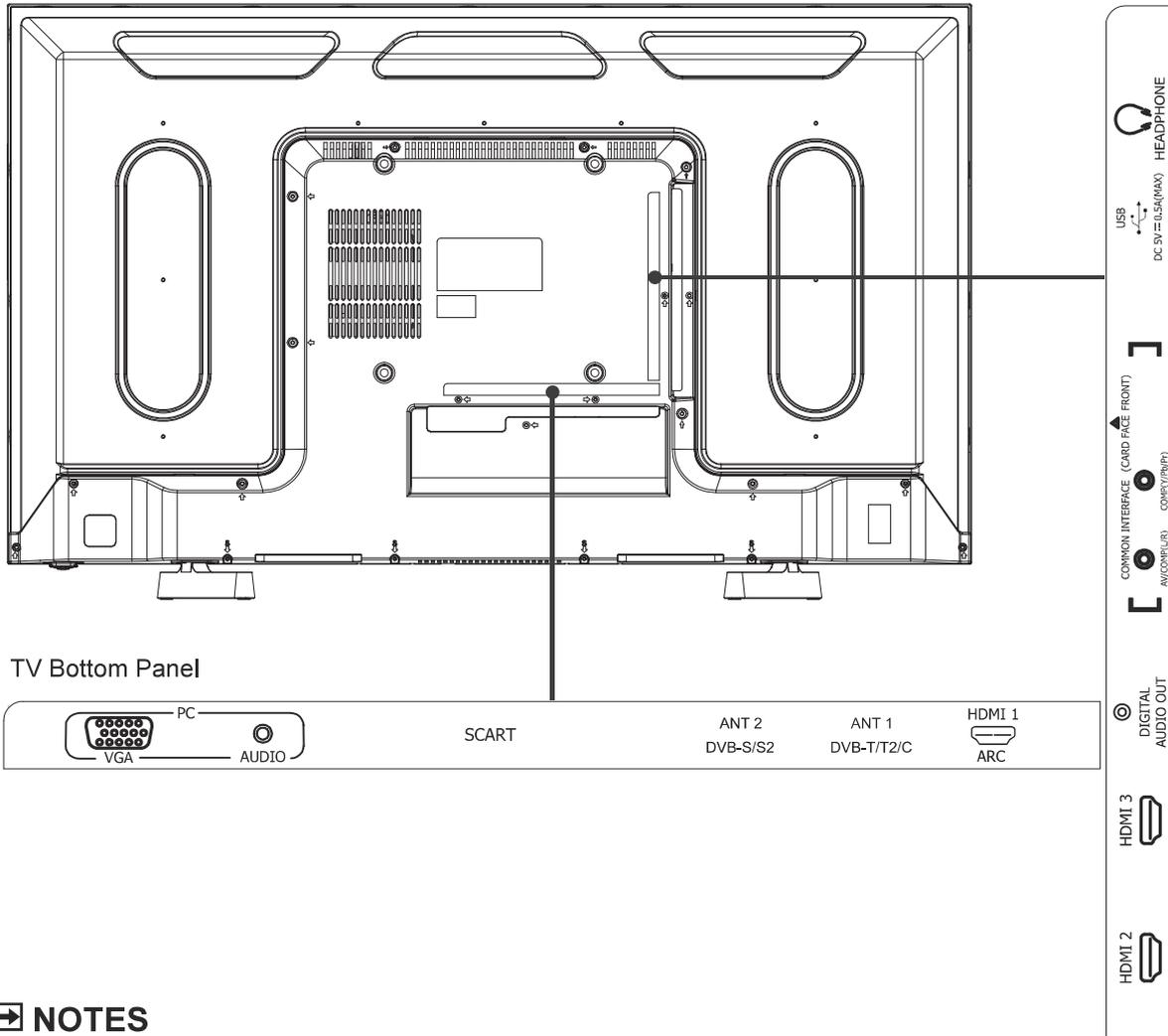
Item	Description
Remote sensor	Receive remote signals from the remote control. Do not put anything near the sensor, as its function may be affected.
Remote Indicator	Red light up in standby mode. Blue light up in power on mode.
⏻ STANDBY/ 📺 SOURCE	Press for a few seconds to turn on the TV or put the TV in standby mode. / Touch to select among the different signal sources.

📌 NOTES

- The Picture is Only for Reference.
- Powering on the TV requires several seconds to load program. Do not rapidly turn the TV off as it may cause the TV to work abnormally.

TV Rear

TV Side View



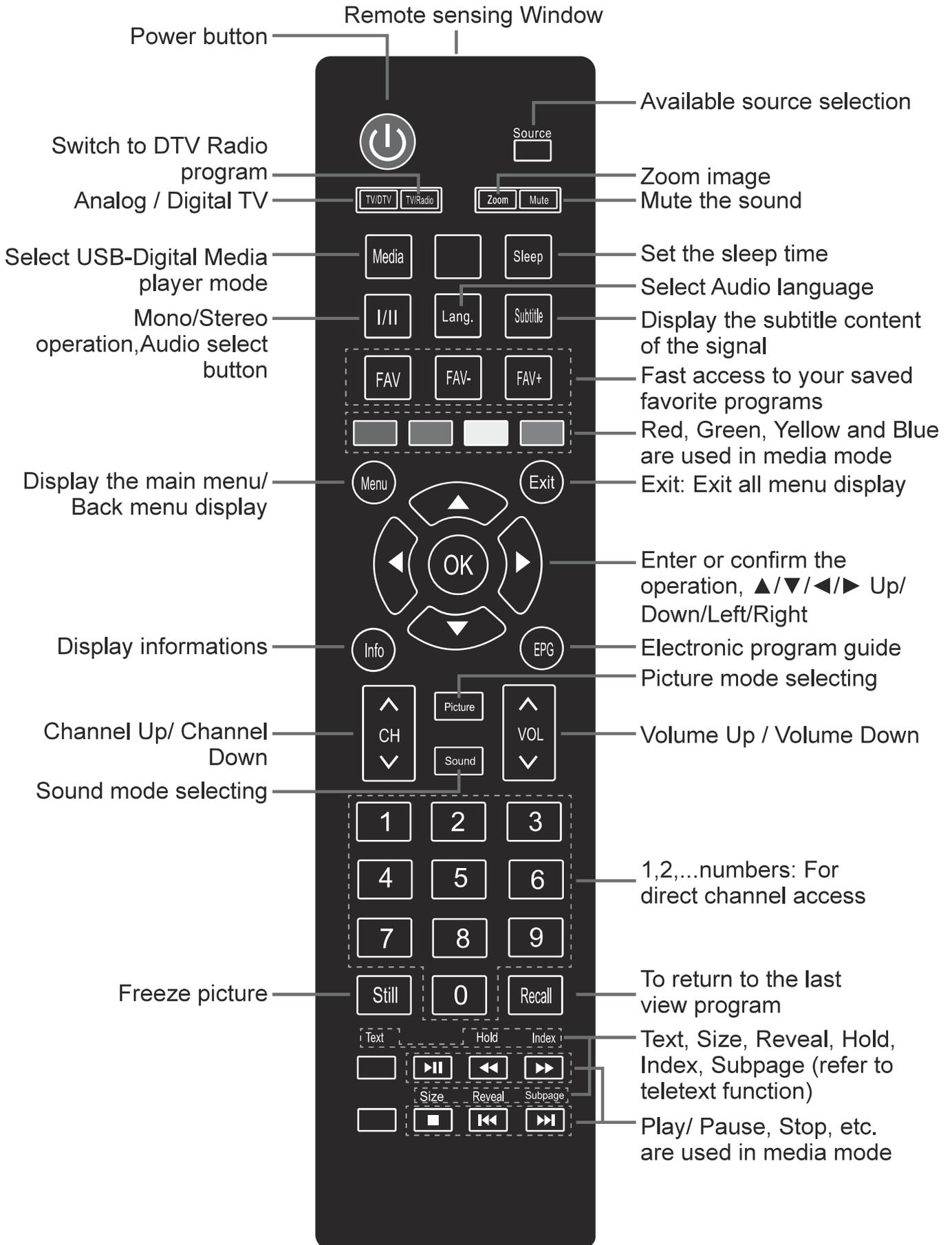
NOTES

- The Picture is Only for Reference.
- Check the jacks for position and type before making any connections. Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- Not all A/V devices have the ability to connect to a TV, please refer to the user's manual of your A/V device for compatibility and connections procedure.
- Before connecting external equipment, remove the mains plug from the wall socket. This may cause electric shock.
- ANT2 Jack supports power supply for satellite antenna (DC13/18V = 0.5A max.)

2.4 Specification (The exact value of the TV reference user guide)

Model Name	HE40M2160FTS
Size with base (mm)	916 × 570 × 216
Size without base (mm)	916 × 542 × 81
Weight with base (kg)	6.4
Weight without base (kg)	6.2
Screen Diagonal Size	40 inches
Screen resolution	1920 × 1080
Sound Output (RMS)	7 W +7 W
Power consumption	70W
Power supply	100-240V ~ 50/60Hz
AV Colour System	PAL NTSC SECAM
Television System	PAL/SECAM-B/G,D/K DVB-T+C DVB-T2 DVB-S/S2
Environmental conditions	Temperature: 5°C - 45°C Humidity: 20% - 80% RH Atmospheric pressure: 86 kPa - 106 kPa
Component mode	480I / 60Hz, 480P / 60Hz, 576I / 50Hz, 576P / 50Hz, 720P / 50Hz, 720P / 60Hz, 1080I / 50Hz, 1080I / 60Hz, 1080P / 50Hz, 1080P / 60Hz
VGA mode	640 × 480, 800 × 600, 1024 × 768, 1280 × 1024 60Hz
HDMI mode	480I / 60Hz, 480P / 60Hz, 576I / 50Hz, 576P / 50Hz, 720P / 50Hz, 720P / 60Hz, 1080I / 50Hz, 1080I / 60Hz, 1080P / 50Hz, 1080P / 60Hz 640 × 480, 800 × 600, 1024 × 768 60Hz

2.5 Remote control



3. Factory/Service OSD Menu and Adjustment

3.1 How to enter the Factory OSD Menu

With user's RC

Power on the TV.

1. Press "Menu" button and call up User OSD Menu.
2. Select " Sound" -> press "OK" button on RC to ensure then move  button to "Balance" item.
3. Press number key 1->9->6 ->9 in sequence when "Balance" item is focused.
Note: If necessary, re-do number keys.
4. Factory OSD appears.

Note: DC power off that can exit factory OSD menu.

3.2 Factory OSD Menu

The Factory OSD Menu comprises Factory Menu and Design menu.

3.2.1、 Factory Menu

White Balance
Input Source
Function
Channel Lint
Test Pattern
Protected clear
Unprotected Clear
Design Menu

White Balance:

Colour Temp
R Gain
G Gain
B Gain
R Offset
G Offset
B Offset

Function:

TO Fac	M/U
Power mode last memory	
Software update	start
Uart bebug	on/off

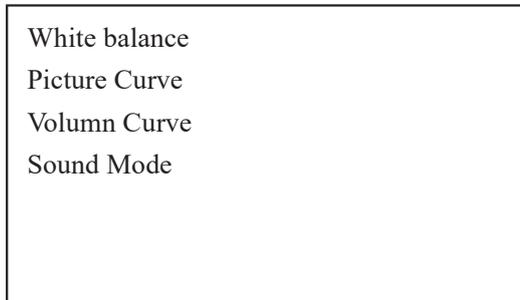
	Item	Default	Options	Notes
1	MODE	M	M, U	M -Can enter factory mode with factory RC or user RC. U -Can enter factory mode only with user' s RC.

Note: MODE "M" is only used for factory production.

Init:

Qingdao
Huangdao
Russia
.....

3.2.2、 Design Menu



Note:

The above “Factory/Service OSD Menus” are reference only, please refer to the actual unit to determine the appearances.

4. Software updating

4.1 USB upgrade

USB upgrade includes two methods. One is USB directly upgrade the other is USB menu upgrade.

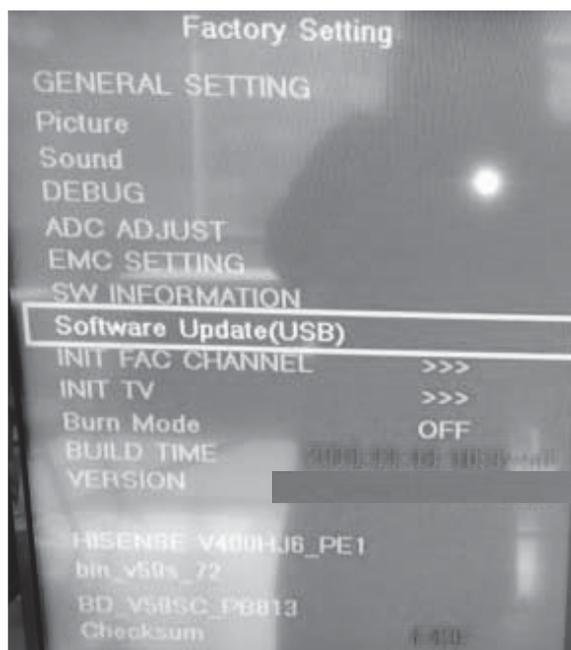
Upgrading file rename—MSD3463_SN51_75.bin

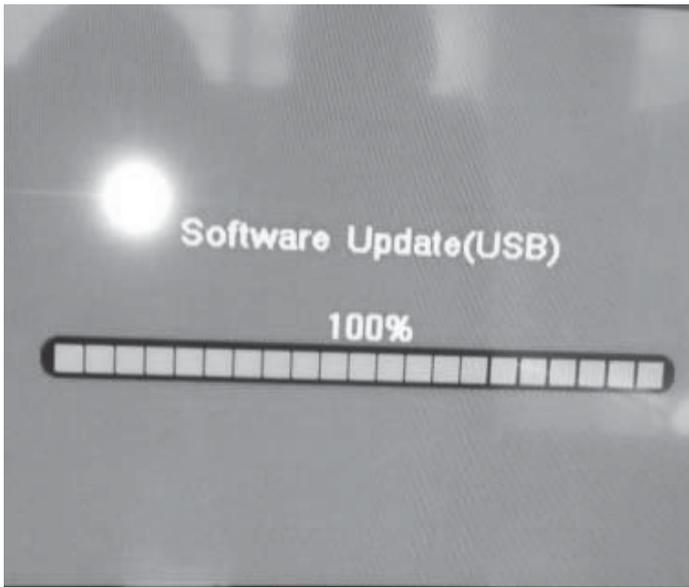
* USB directly upgrade

- 1、 Put the MSD3463_SN51_75.bin in root directory of USB disk. Unplug the TV power cord and plug the U disk to the TV.
- 2、 Plug the TV power cord ,TV will update automatically. Update processing red and blue led indicator flash alternately slow.
- 3、 When Update finished, the red and blue led indicator flash alternately fast. and re-plug the power cord to power on .

* USB menu upgrade

- 1、 Insert USB disk that only have one upgrading file: **XX.bin** in root disk.
- 2、 Enter the Factory OSD Menu see 3.1
- 3、 Choose Factory menu→Function>software update (USB) to start update





processing is 100% that indicates USB updating succeed.
Unplug the USB disk and re-plug the power cord to power on .

Note:

During upgrading, DO NOT power off the TV and other abnormally operations .otherwise boot can be destroyed .since boot is destroyed , USB upgrading method is availability no longer. Must adopt Mstar Tool to update.

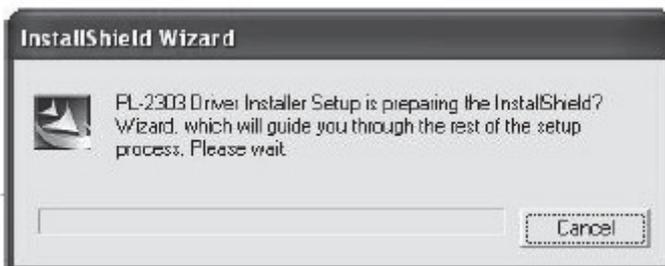
4.2 Mstar Tool upgrade

1、 Install the USB-serial driver



PL-2303 Driver Installer.rar

For the first connecting ,the pc will recognize and automatically install the USB device.the process is just like the installation of mini disk. See the following figure.



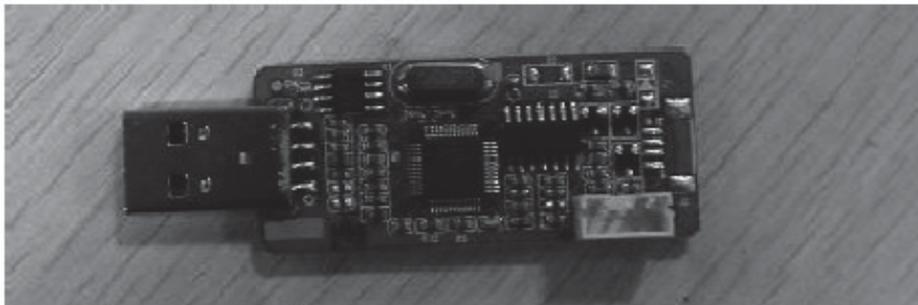
2、 Hardware connecting

You can update the software through a special tool a USB-to –serial port (as following)
USB port to your PC and the serial to the TV'S VGA port.

USB Extension cord:



Serial port board: B.CNSISP7A



Plug in with VGA port:



For the first connecting, the pc will recognize and automatically install the USB device.
The process is just like the installation of a mini disk, see the following picture.

3、USB Board Driver

After connecting USB connection line to pc and USB board to TV set:

Click “Setup.Exe”, ignoring any question, click “Next”

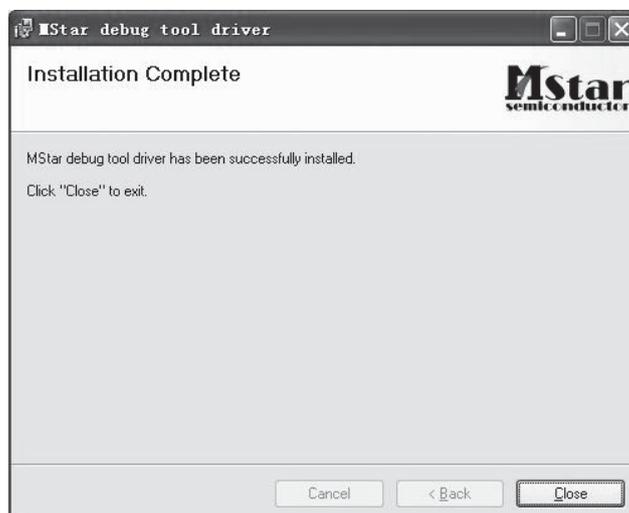




Select continue installation



Successful installed:



“Comport setting “item need choose corresponding com port.
How to look up corresponding comport? Now show.as following





4、Mstar ISP Tool

Install the ISP_Utility V4.5.2.8 -----only for the first time update.

(Connect the PC and main board with the USB-serial board)

Click the” **Config** “button. And then a dialog window will show as below.

Draw on the front of “Use USB”

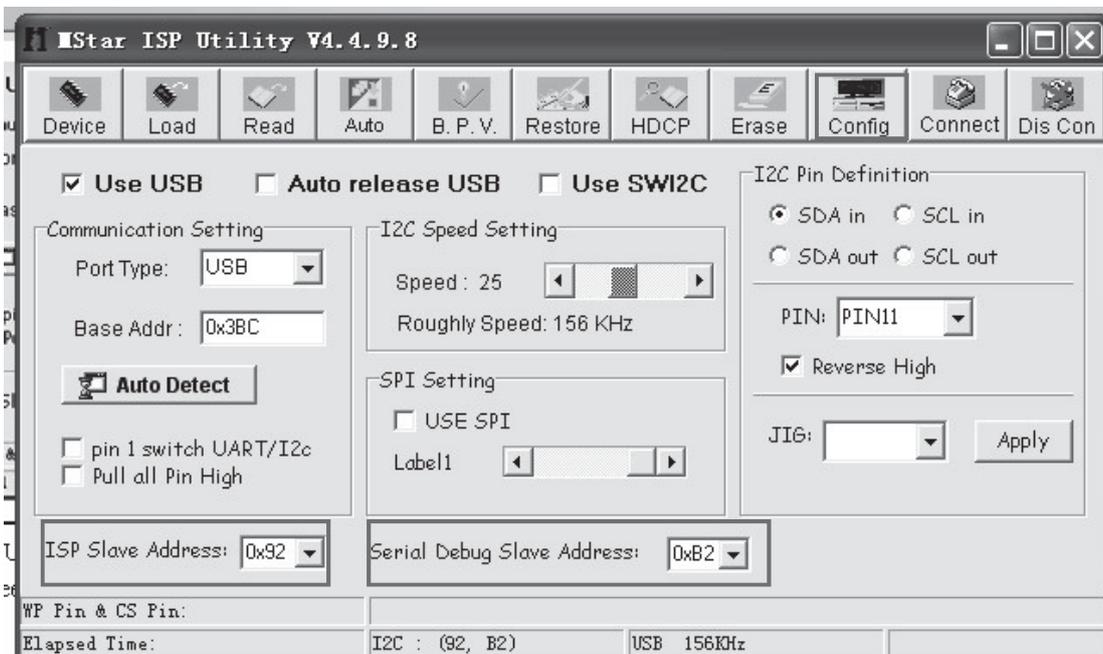
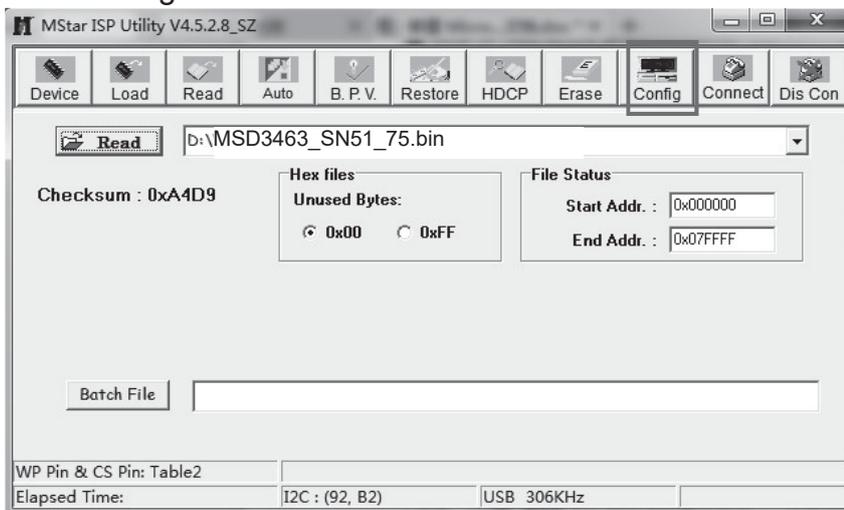
Port Type setting is USB

Base Addr setting is 0x38C

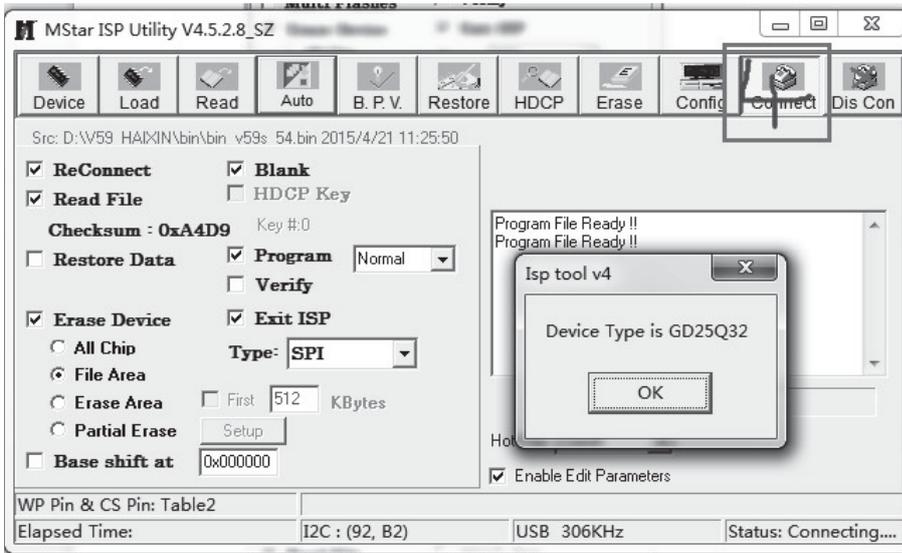
ISP Slave Address choose 0x92

Serial Debug Slave Address choose 0xB2,

As following



Click the “Connect” button



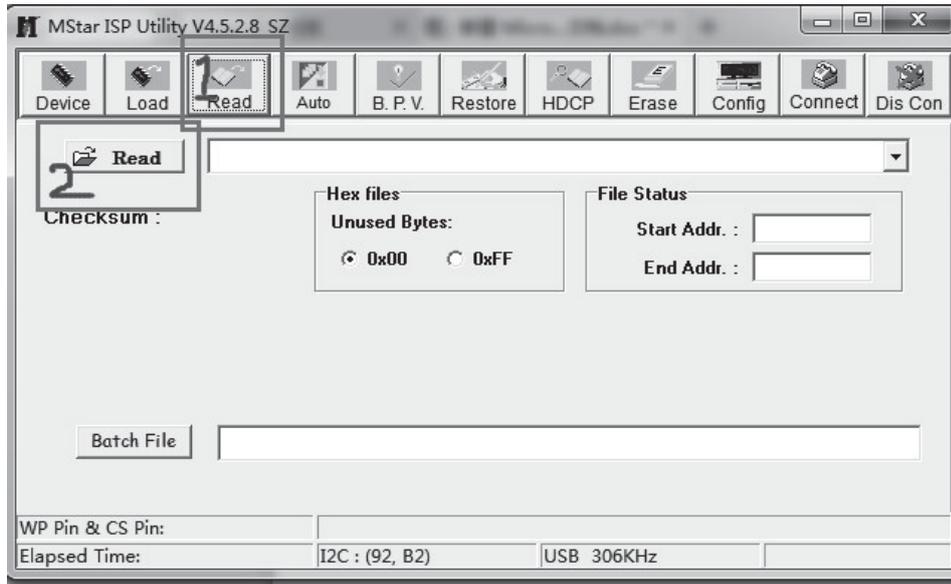
Click the “Connect” button, if appear the following figure, It indicates that the ISP_TOOL has connected.



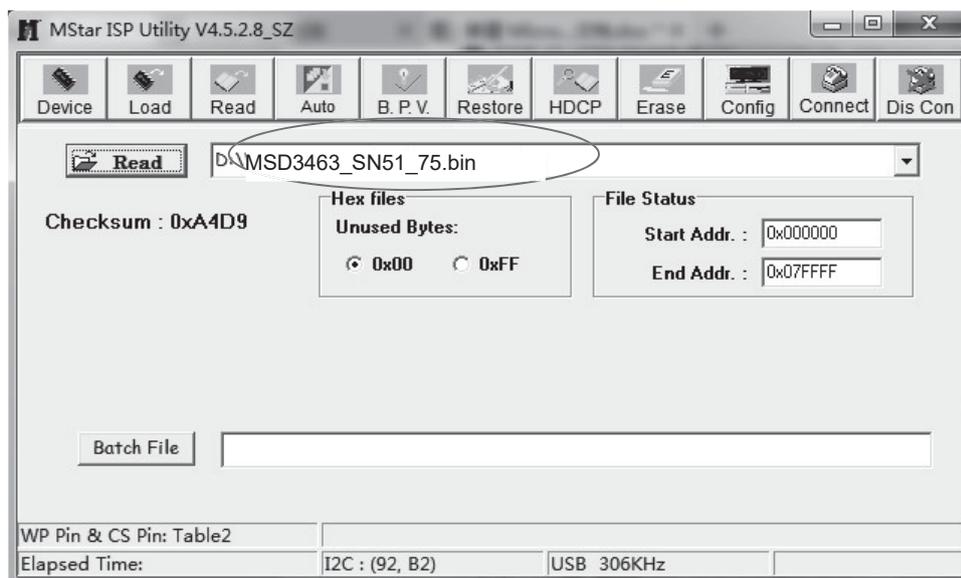
If appear the following figure, It indicates that the ISP_TOOL has not connected. Please click the “Dis Con” button and click “Connect” button to connect again.. Check: a、 Power on b、 USB board connect c、 connection line match



Click the "Read" button

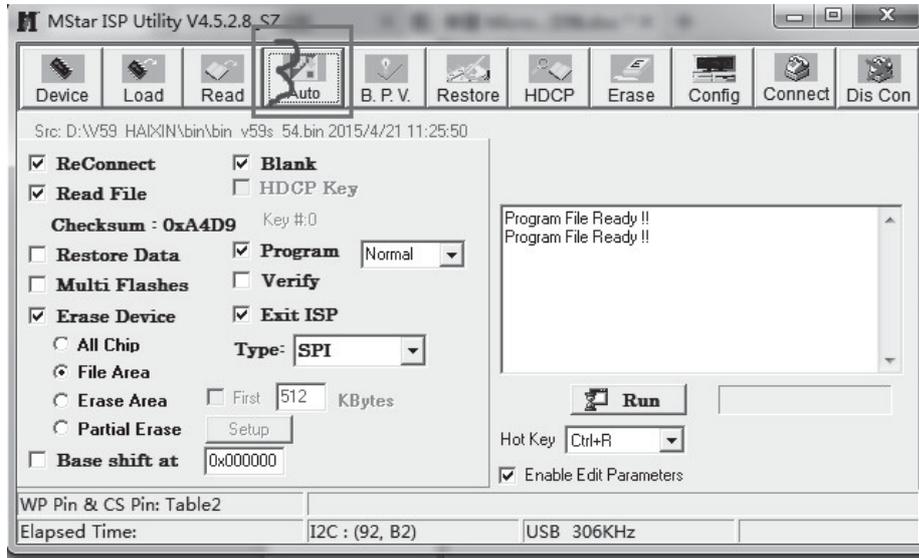


Choose the update file from the folder.

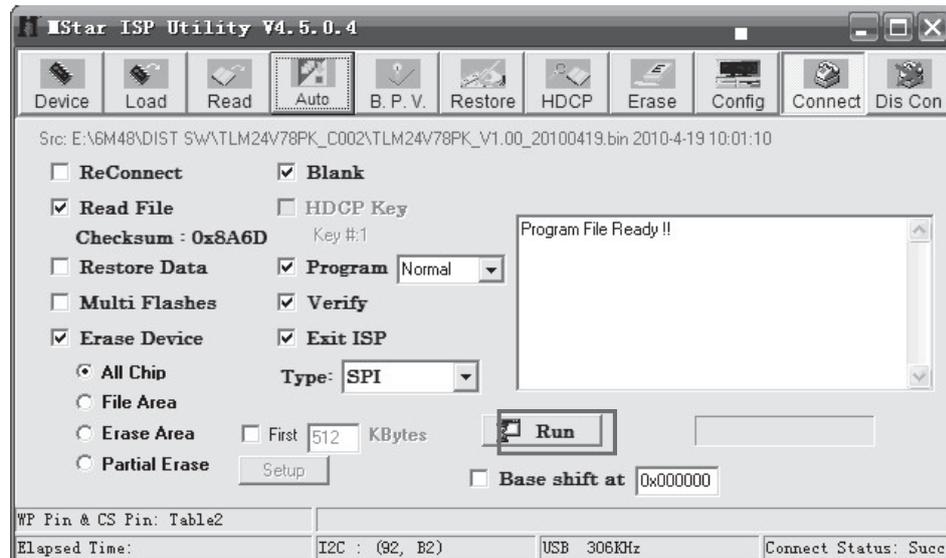


The update file has been chosen successfully.

Click the **“Auto”** button and choose parameters as following.

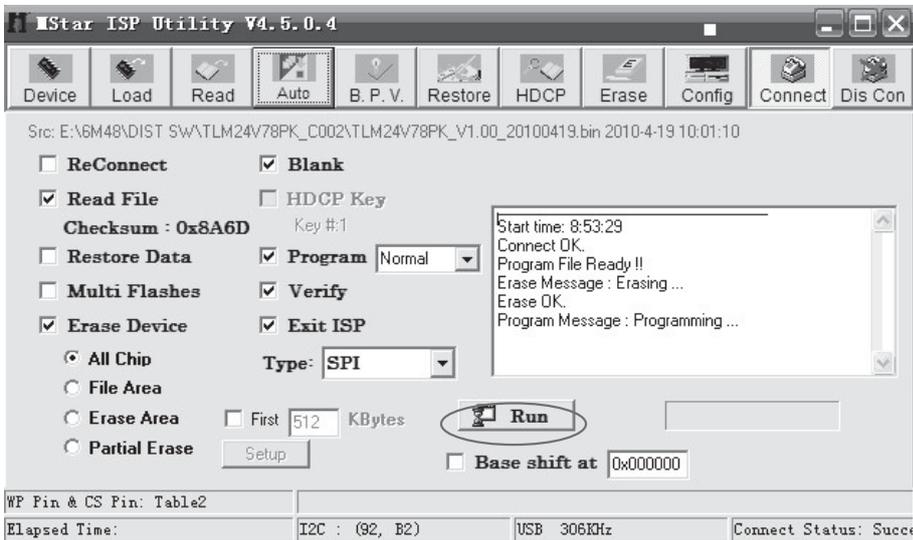
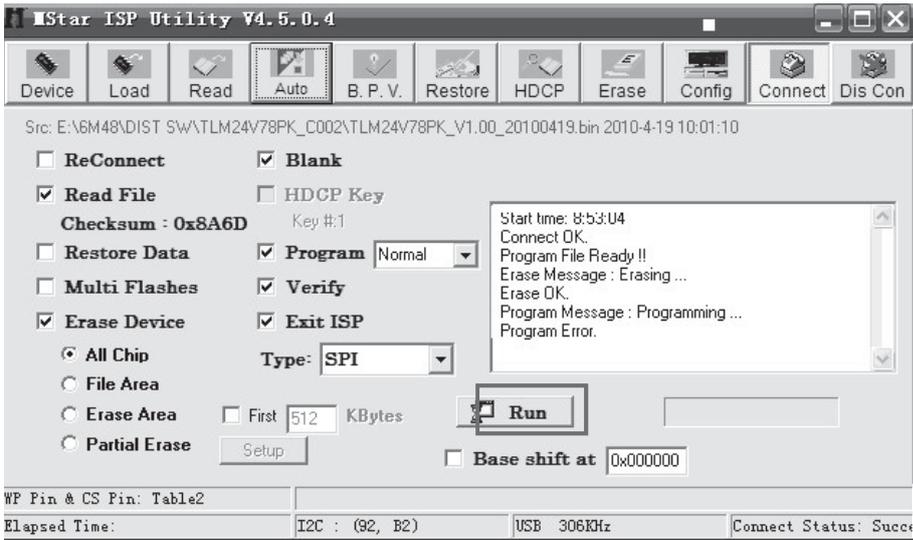


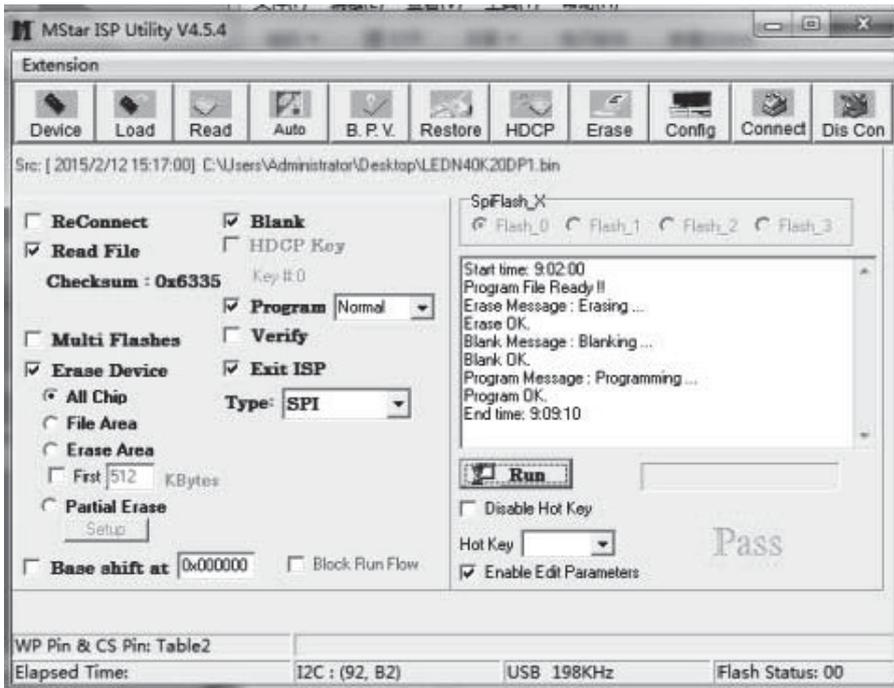
Click the **“Run”** button to start



If appear green **“PASS”**, it indicates that the **“software written”** is successful .

If show **“error message”** then click the **“Run”** button again and again, till show the following dialog window .

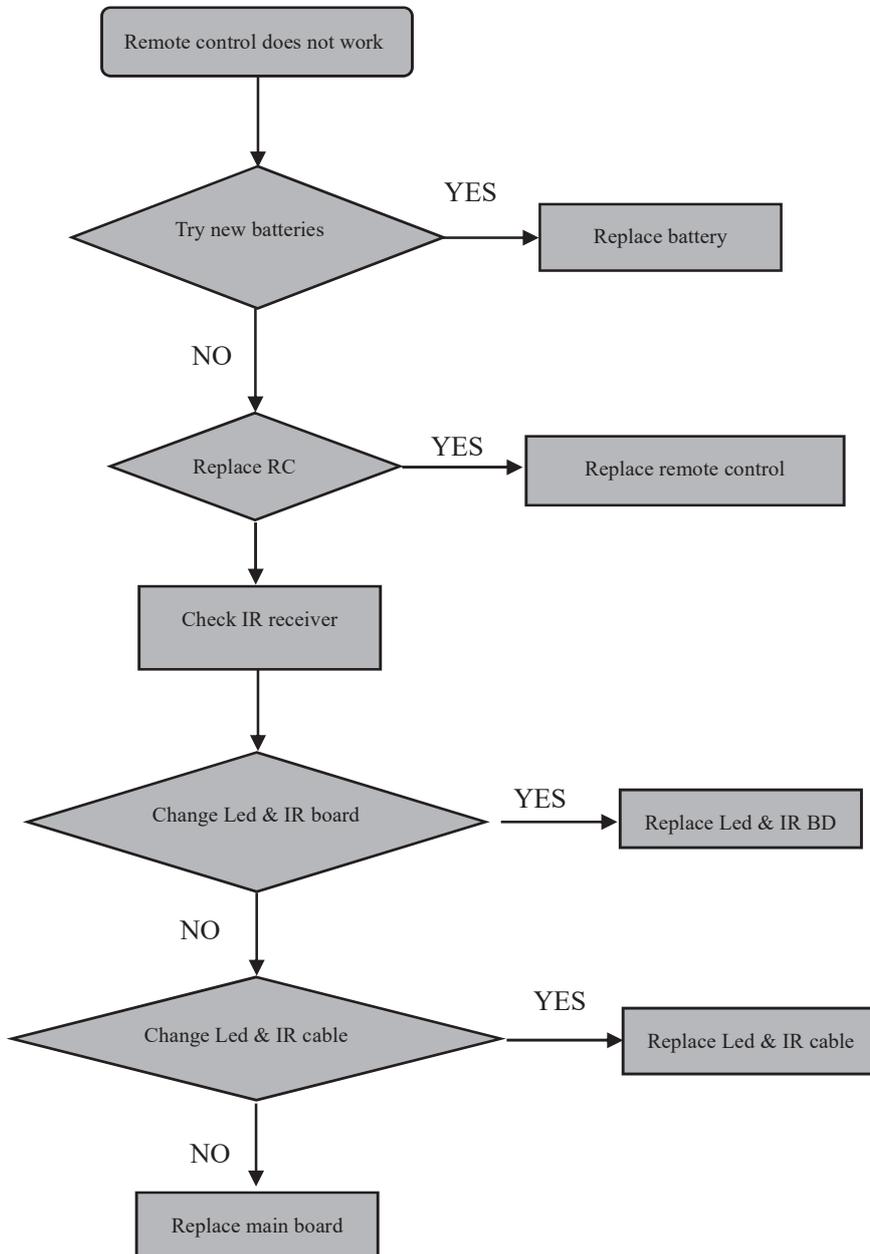




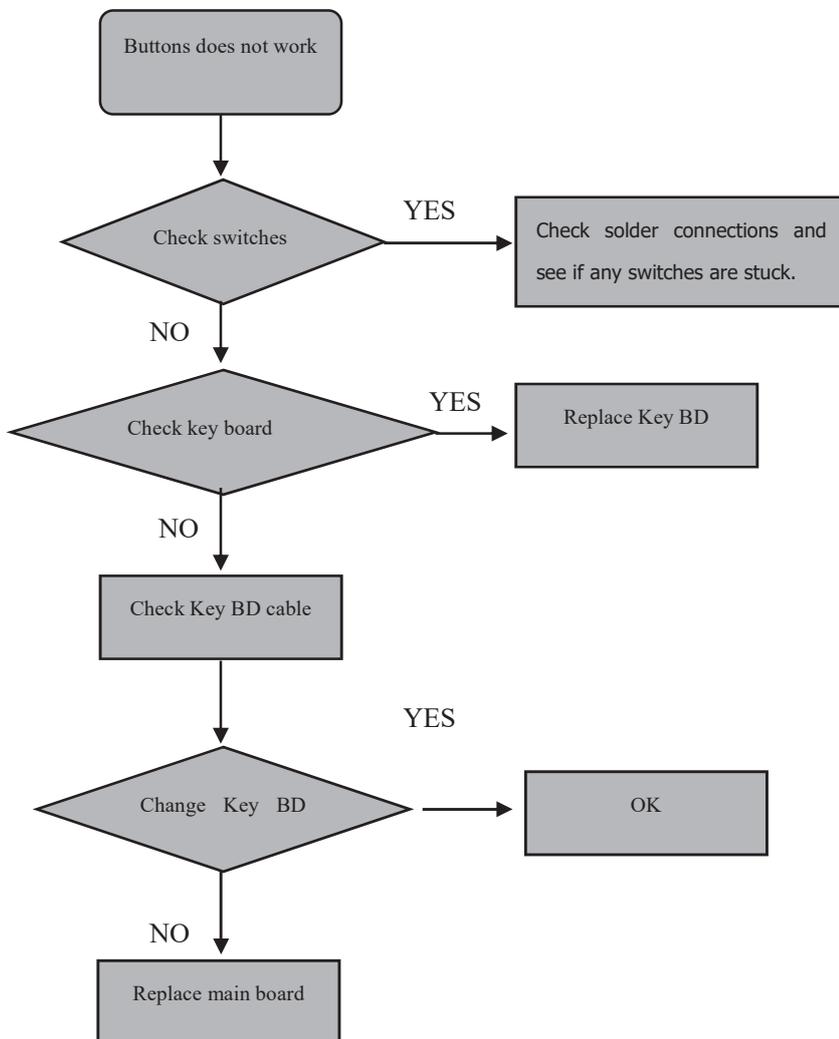
The above appears on the screen-the word “PASS” shows in the information displaying window, indicating upgrading is over.

5. Troubleshooting

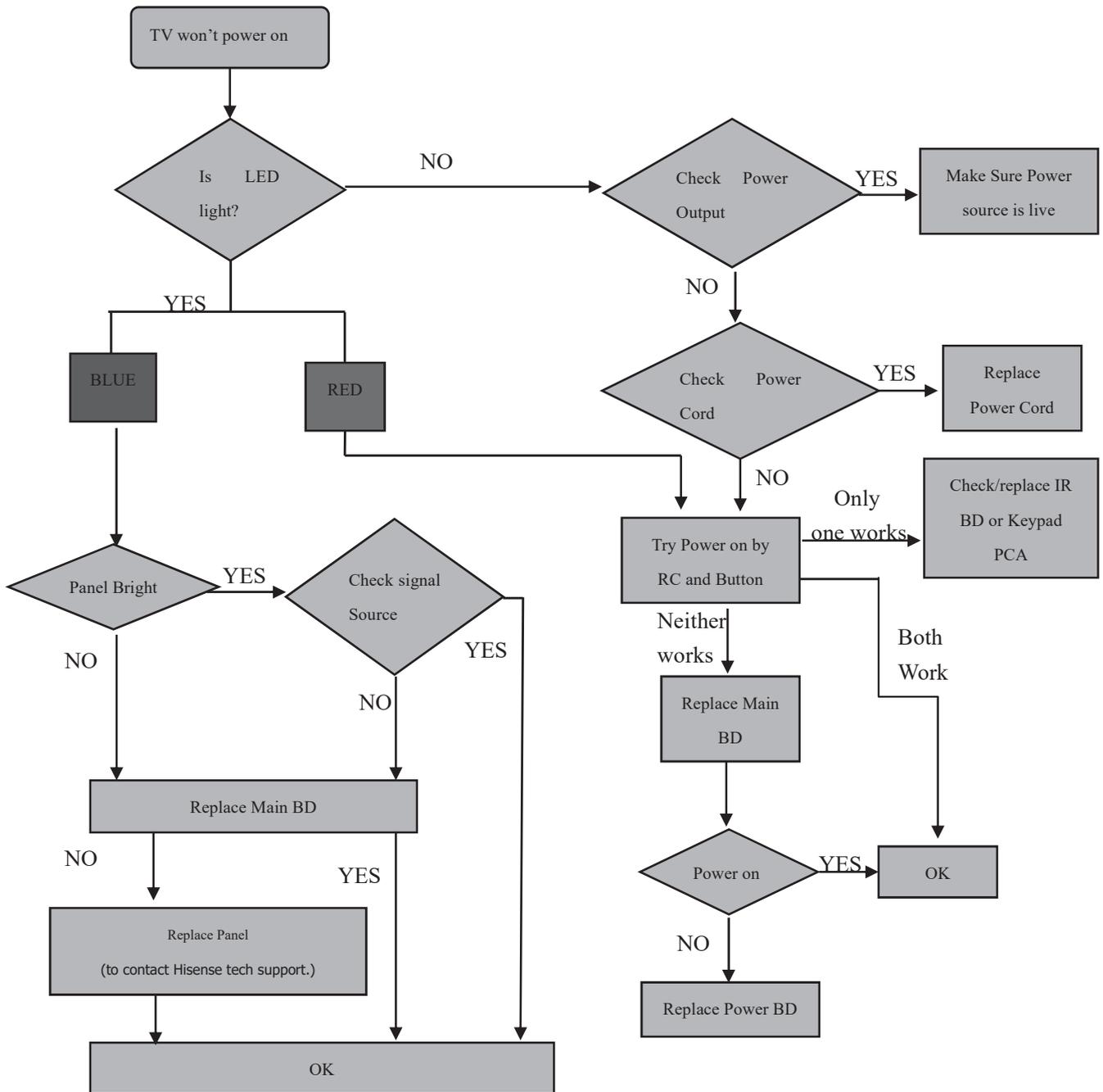
5.1 Troubleshooting for Remote Control



5.2 Troubleshooting for Function Key



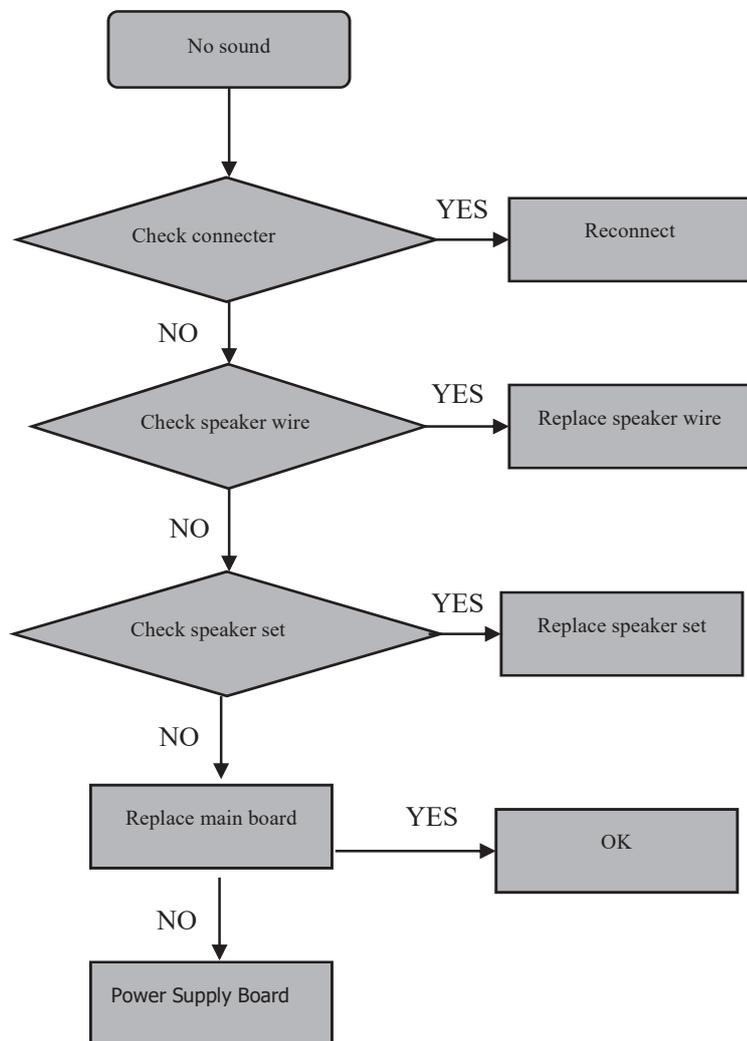
5.3 TV won't Power On



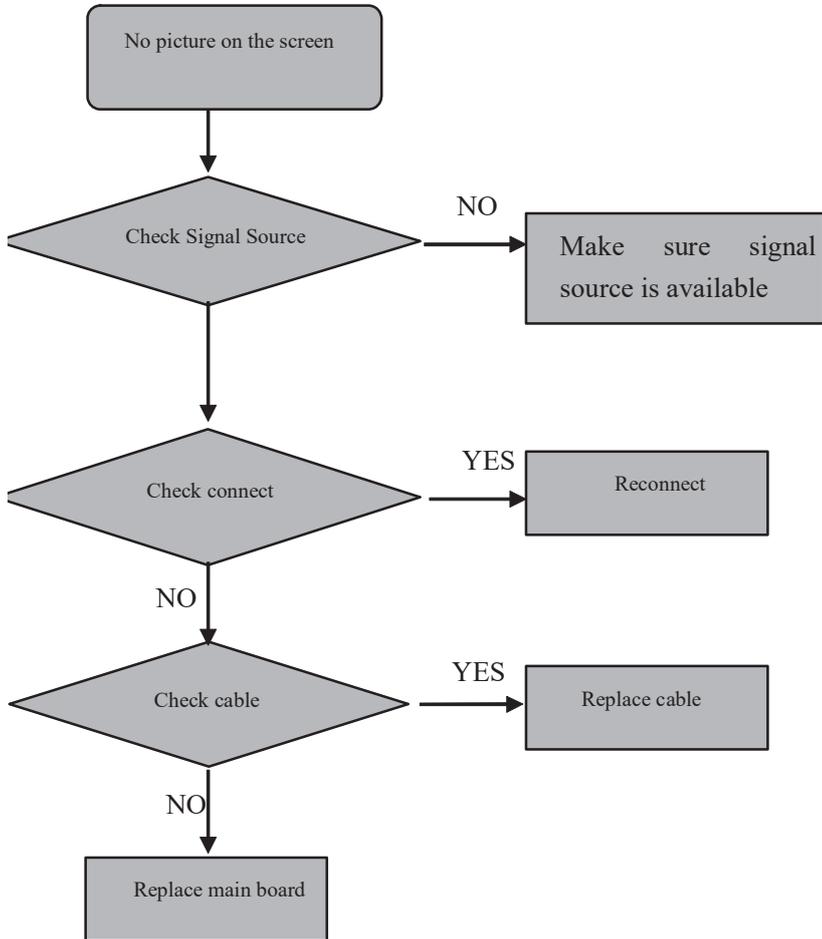
Notes:

Above TV configure is that TV in work state, indication Led is blue and in standby state the indication led is red.

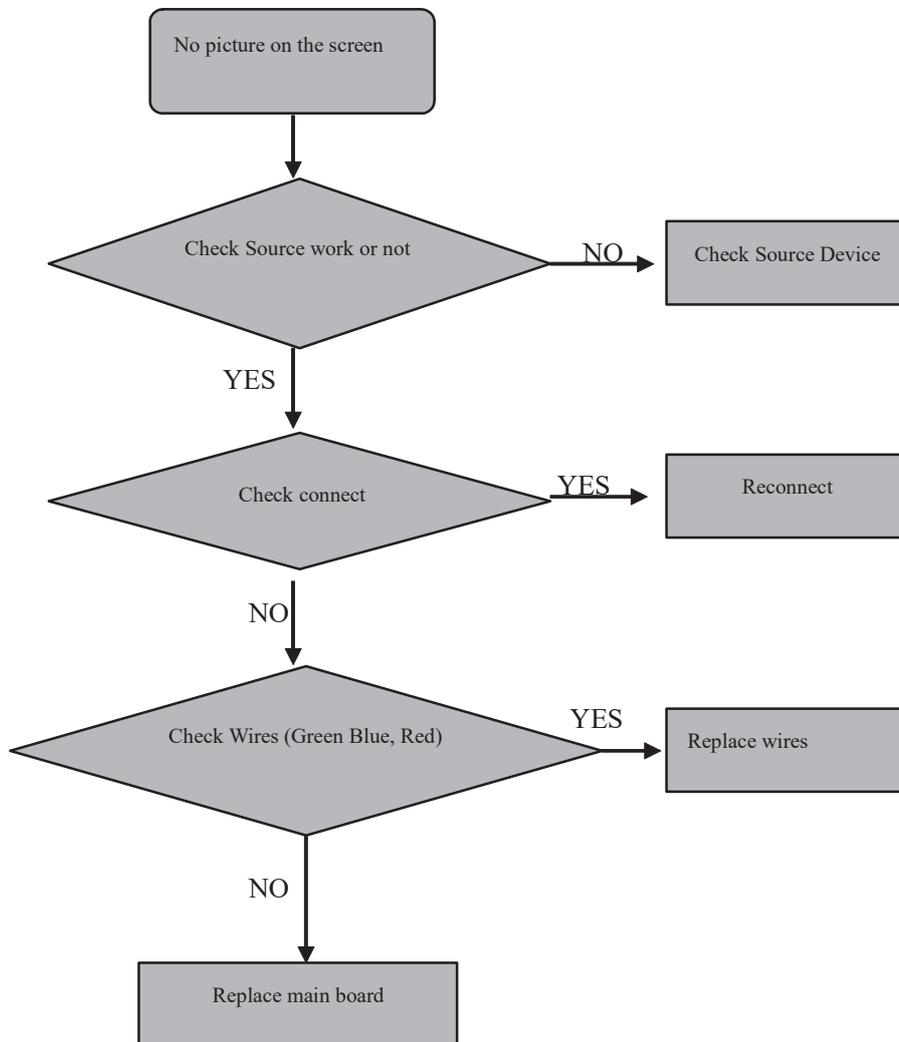
5.4 Troubleshooting for Audio



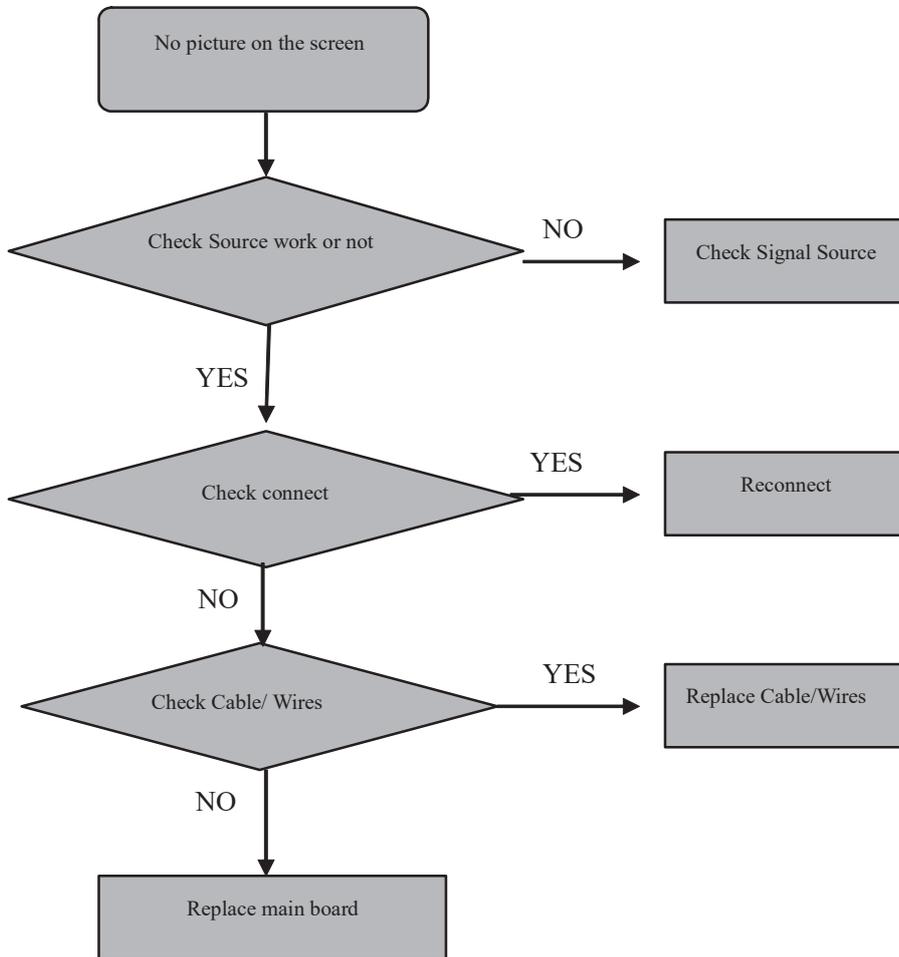
5.5 Troubleshooting for TV/VGA/HDMI input



5.6 Troubleshooting for YPbPr input



5.7 Troubleshooting for Video input



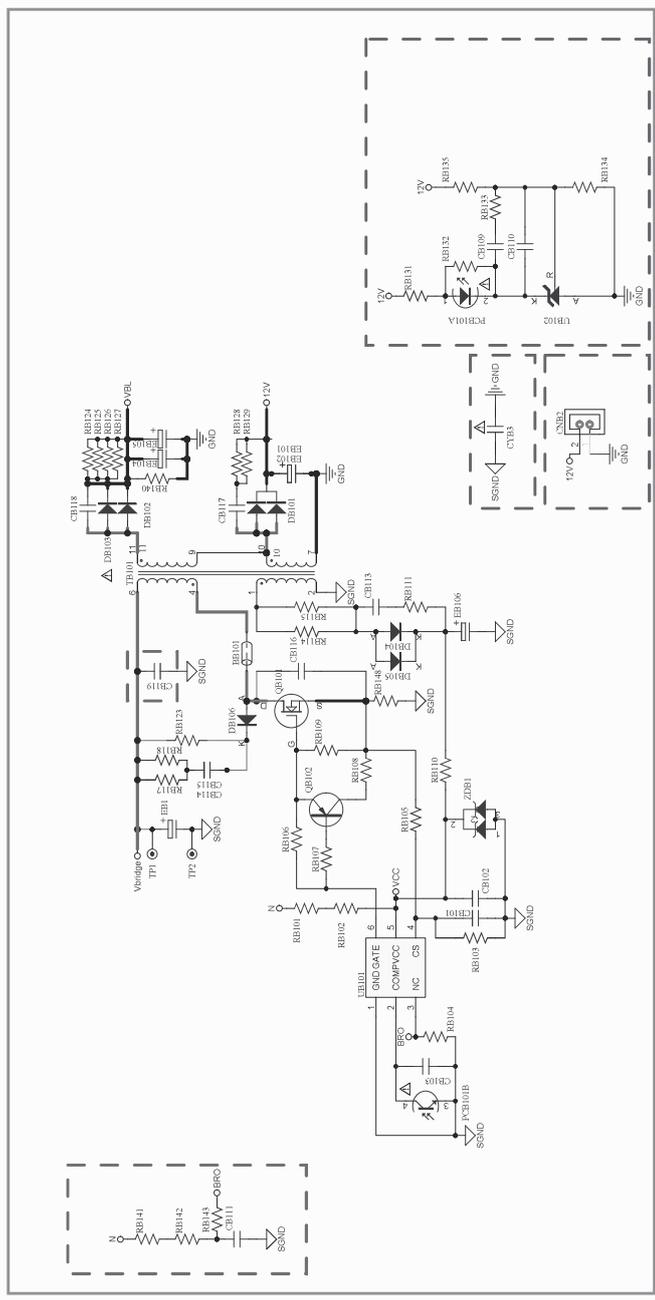
6. Circuit instruction

Power assign and Main board signal process

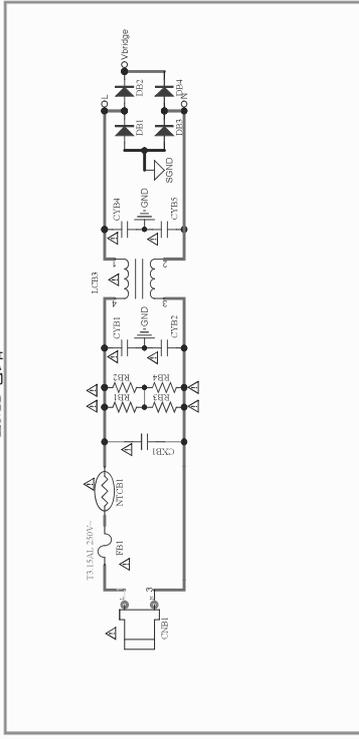
7. Schematic circuit diagram

8. Explode View

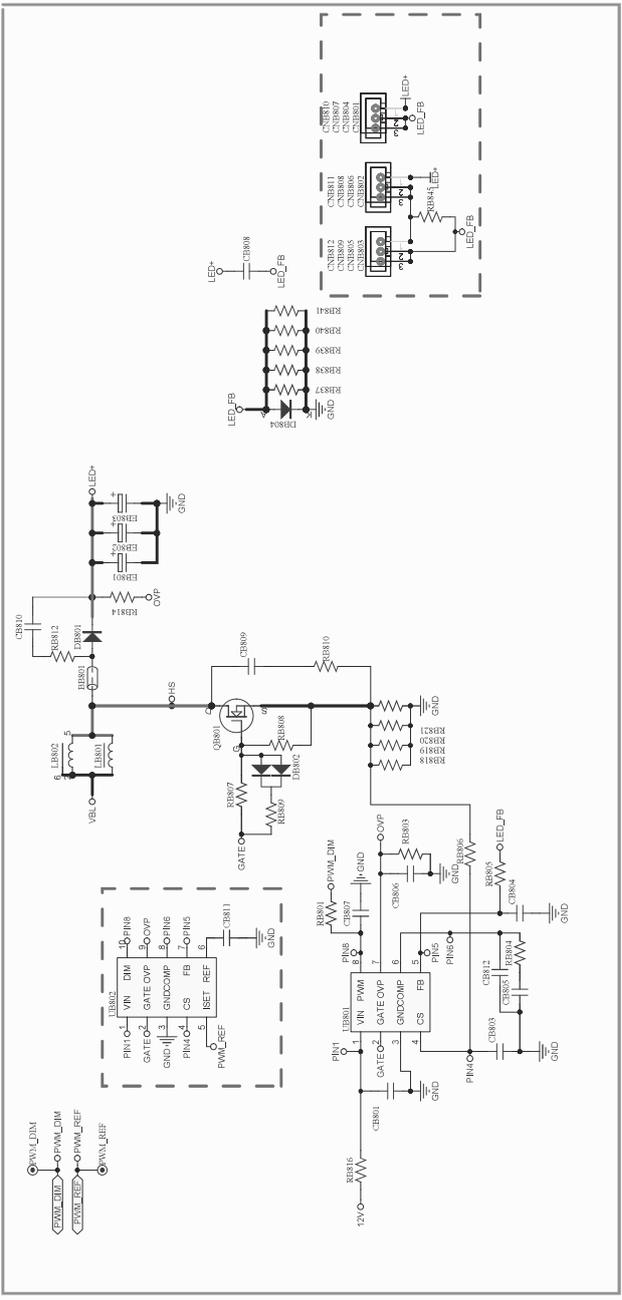
反激电路



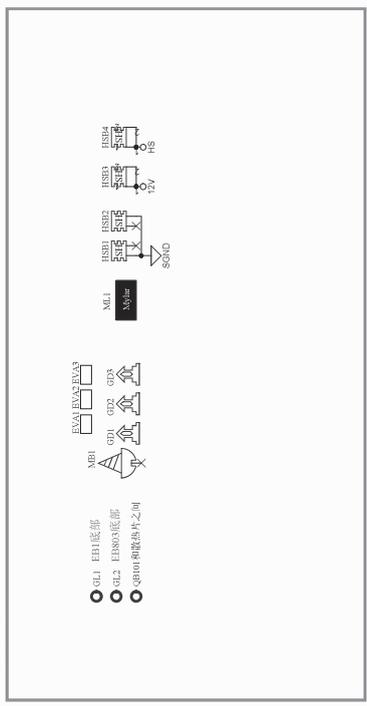
EMI电路



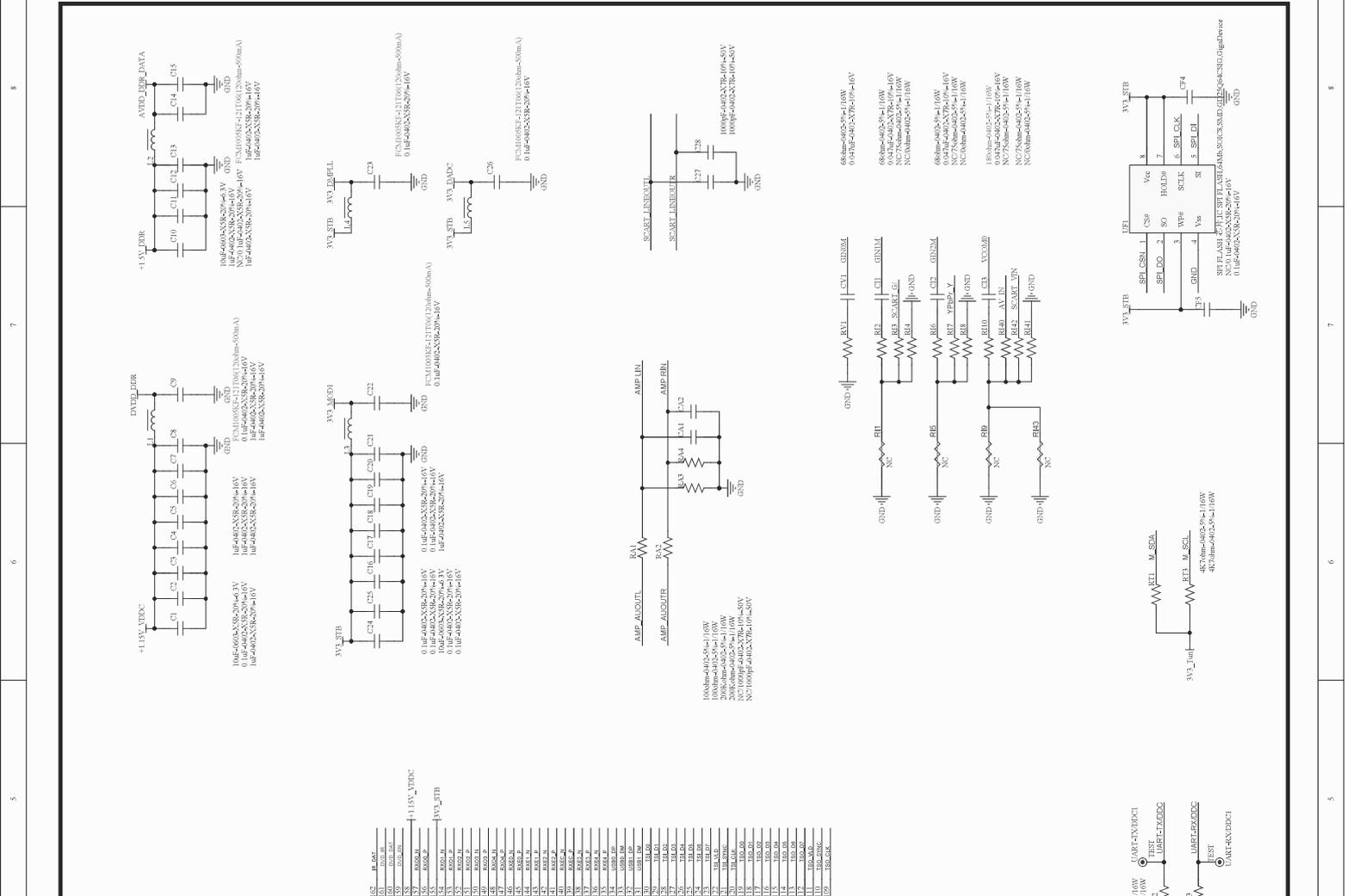
恒流电路



辅助材料

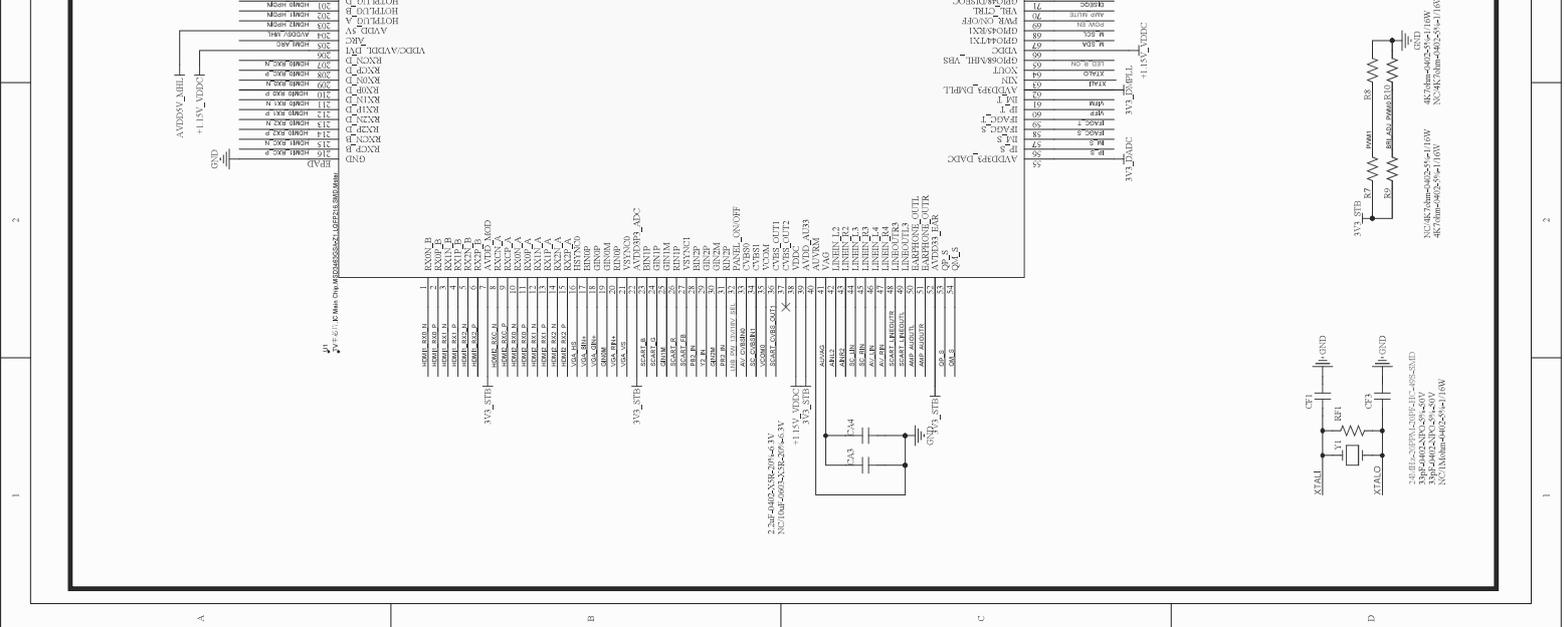


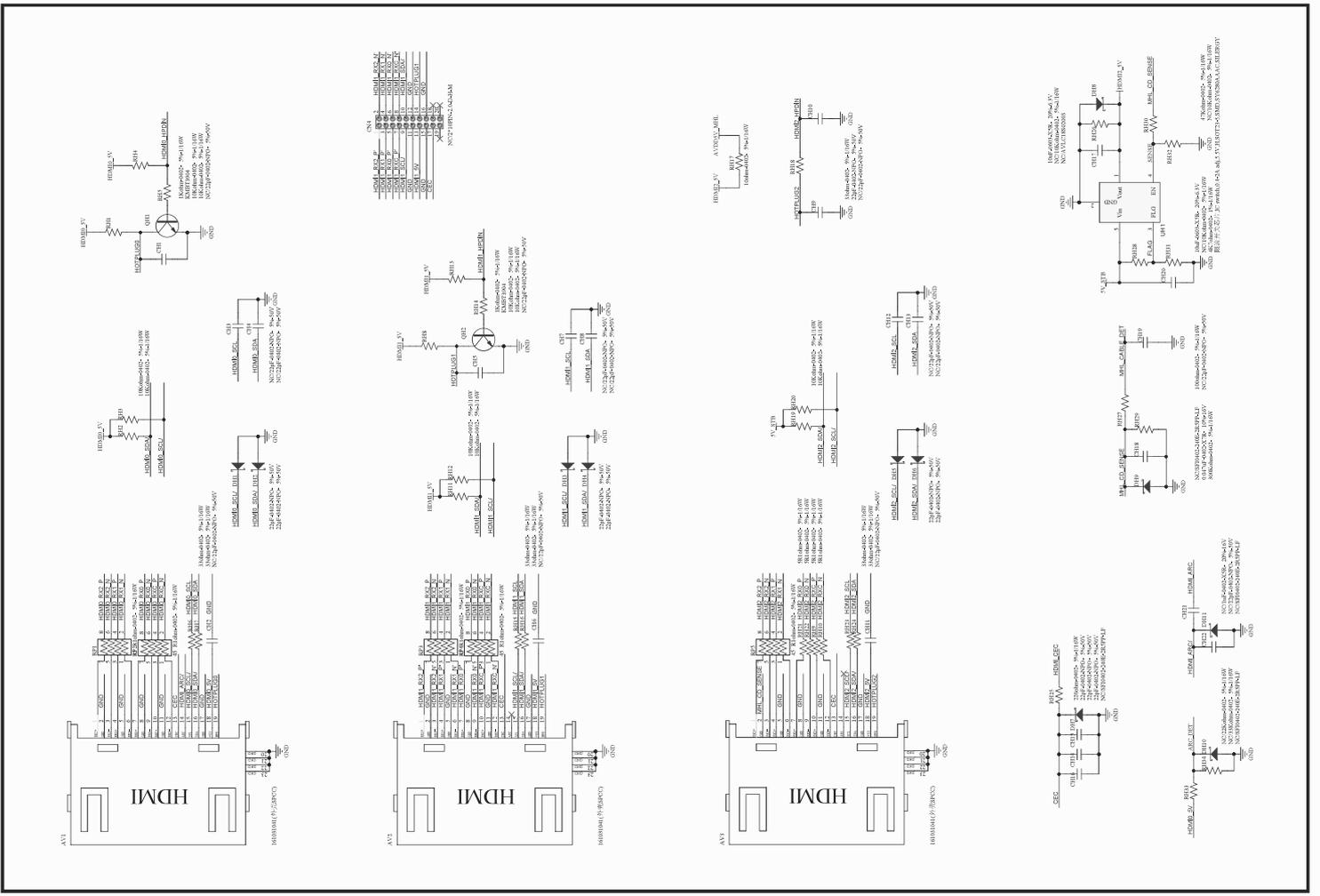
Model Name:	TP1833AS1888U	VERSION:	V1.0
DRAWN:	何志斌	DATE:	2014-12-25
CHECK:		DATE:	2014-12-25



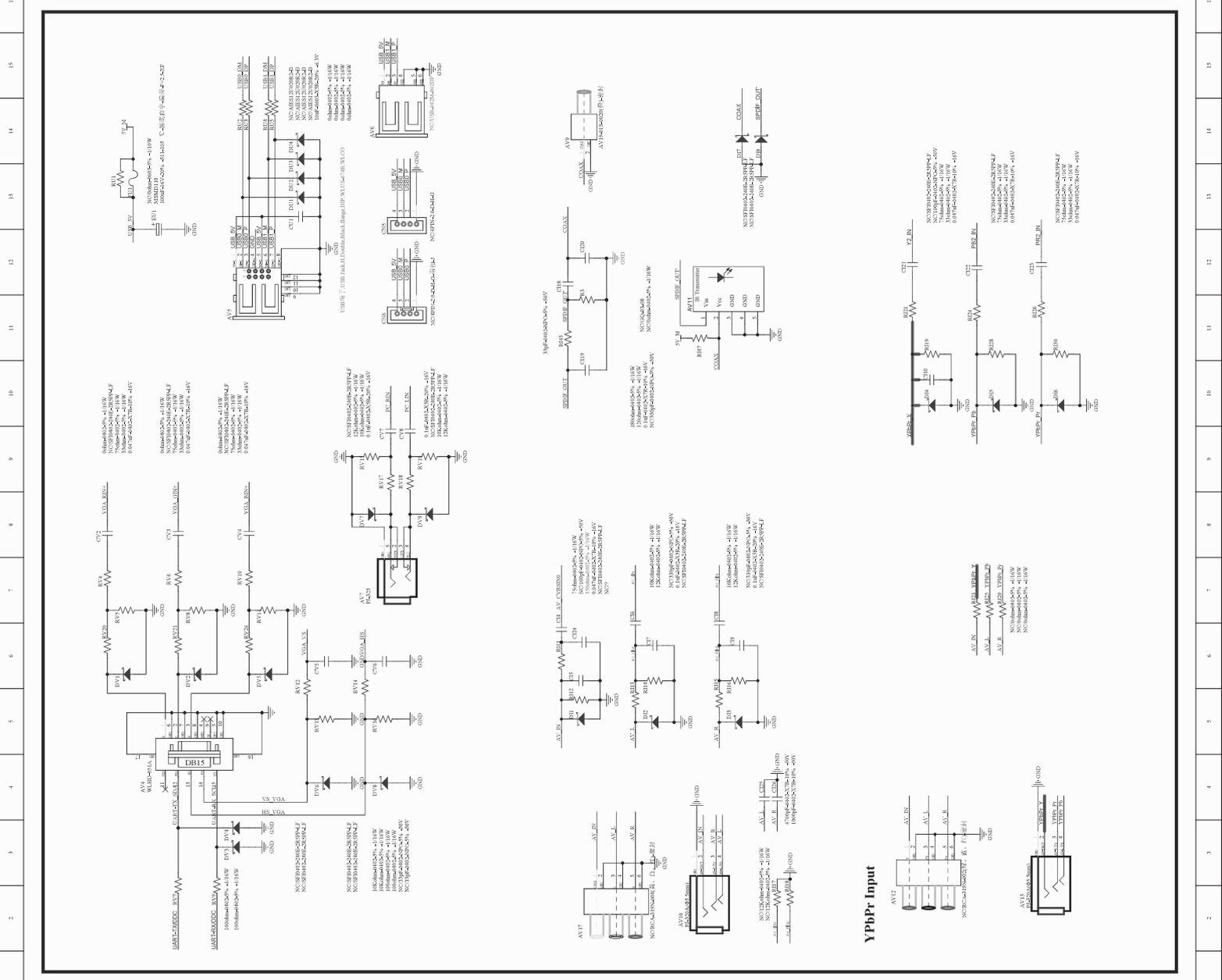
MSD3463GS4

Pin	Signal	Value
1	AVDD3463	1.5V
2	AVDD3463	1.5V
3	AVDD3463	1.5V
4	AVDD3463	1.5V
5	AVDD3463	1.5V
6	AVDD3463	1.5V
7	AVDD3463	1.5V
8	AVDD3463	1.5V
9	AVDD3463	1.5V
10	AVDD3463	1.5V
11	AVDD3463	1.5V
12	AVDD3463	1.5V
13	AVDD3463	1.5V
14	AVDD3463	1.5V
15	AVDD3463	1.5V
16	AVDD3463	1.5V
17	AVDD3463	1.5V
18	AVDD3463	1.5V
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33	AVDD3463	1.5V
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36	AVDD3463	1.5V
37	AVDD3463	1.5V
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39	AVDD3463	1.5V
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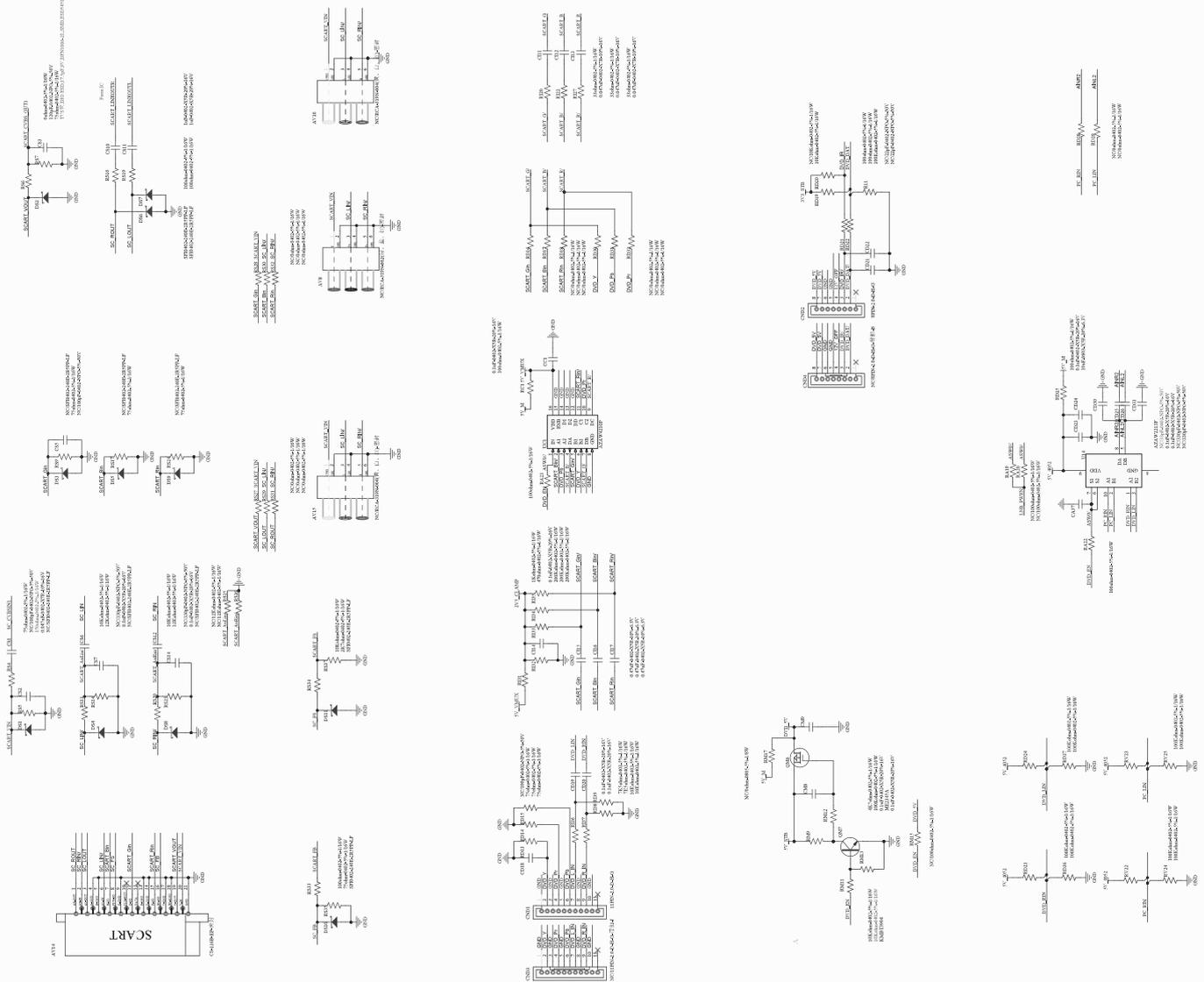


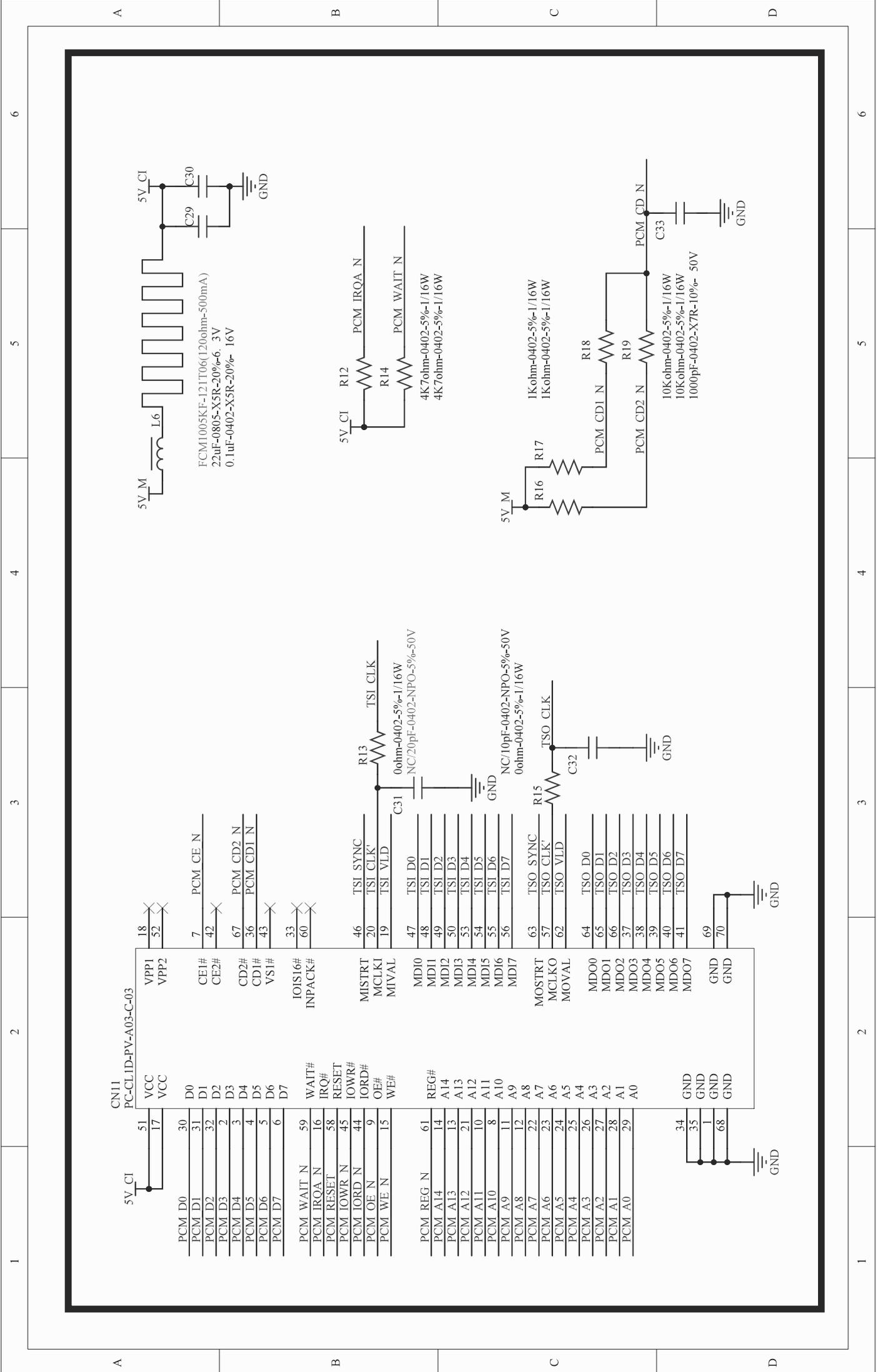


4 5 6 1 2 3 4 5 6



SCART Input



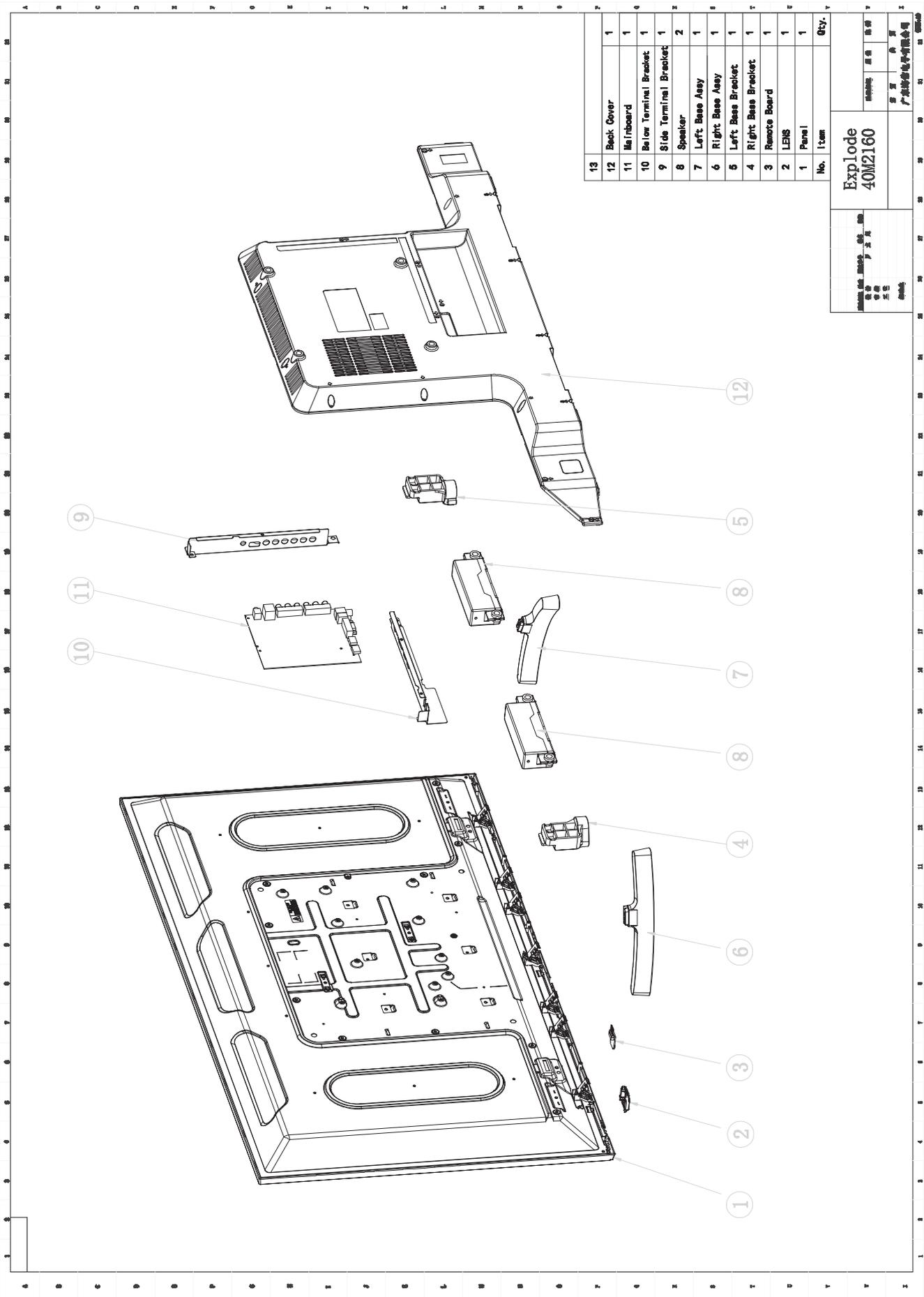


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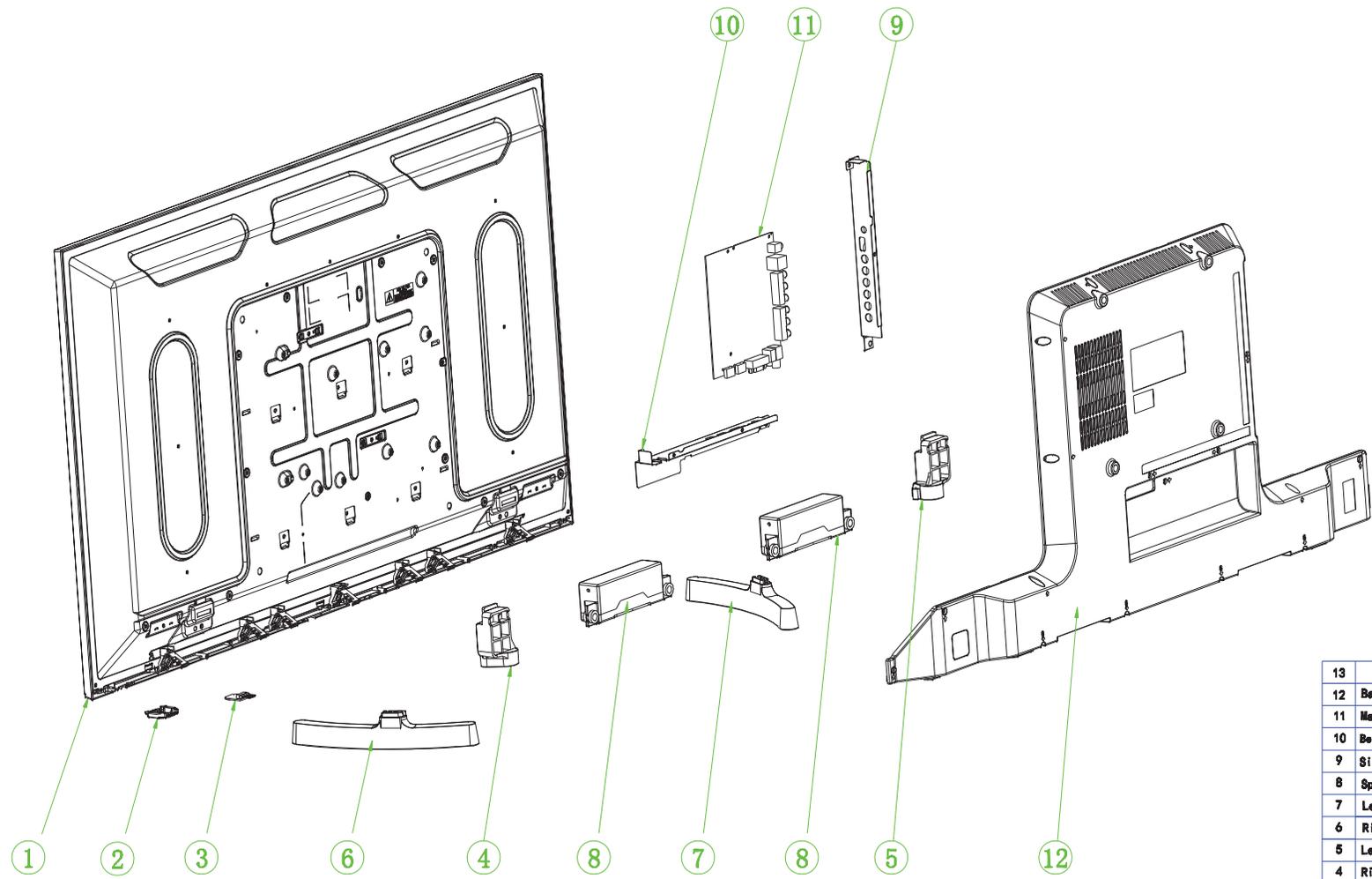
A B C D

A B C D



13	Back Cover	1
12	Mainboard	1
11	Base Terminal Bracket	1
10	Side Terminal Bracket	1
9	Speaker	2
8	Left Base Assy	1
7	Right Base Assy	1
6	Left Base Bracket	1
5	Right Base Bracket	1
4	Remote Board	1
3	LENS	1
2	Panel	1
1	Item	Qty.

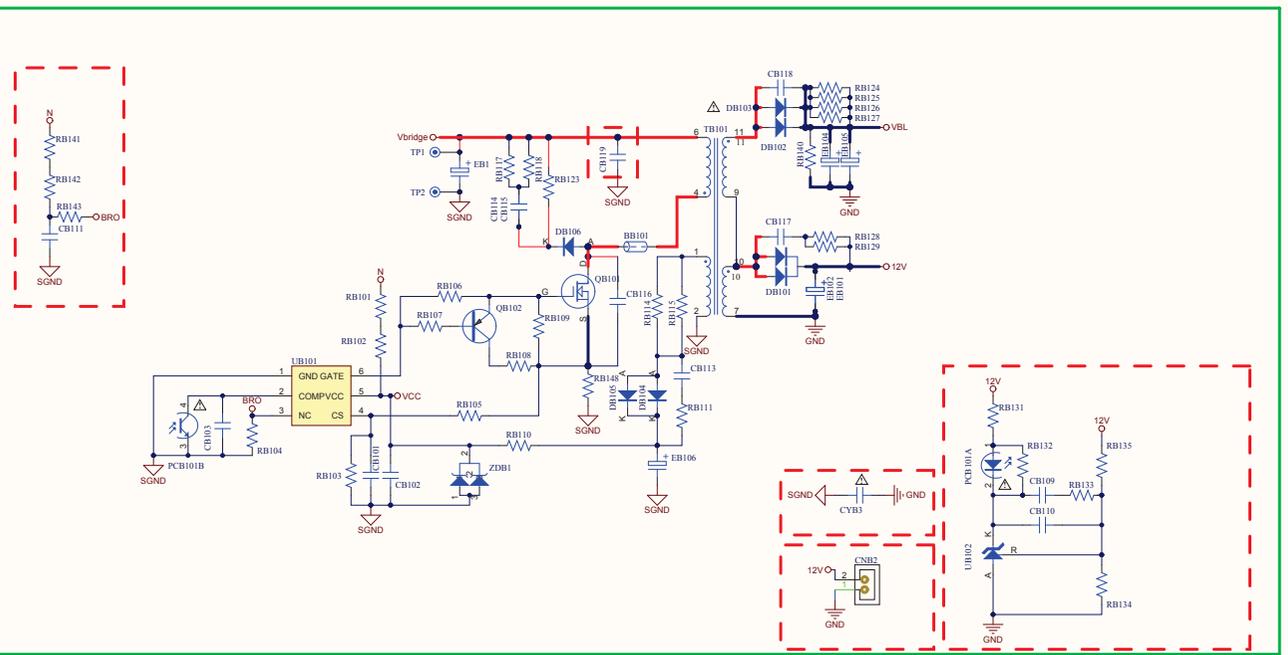
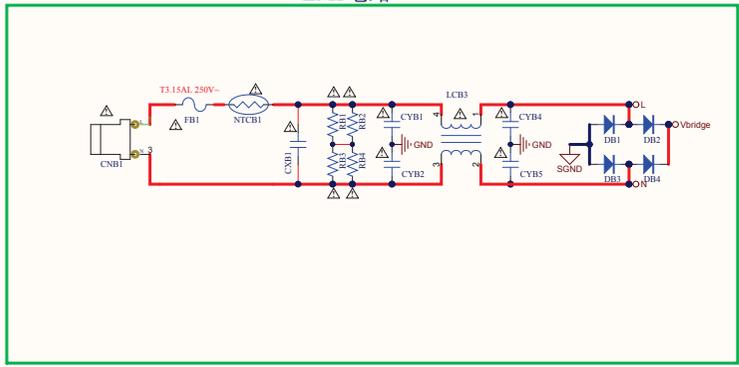
Exploide
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 广东海信电子有限公司
 广东 佛山 顺德 龙江 镇 海信路
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 0757-28392100



13		
12	Back Cover	1
11	Mainboard	1
10	Below Terminal Bracket	1
9	Side Terminal Bracket	1
8	Speaker	2
7	Left Base Assy	1
6	Right Base Assy	1
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4	Right Base Bracket	1
3	Remote Board	1
2	LENS	1
1	Panel	1
No.	Item	Qty.

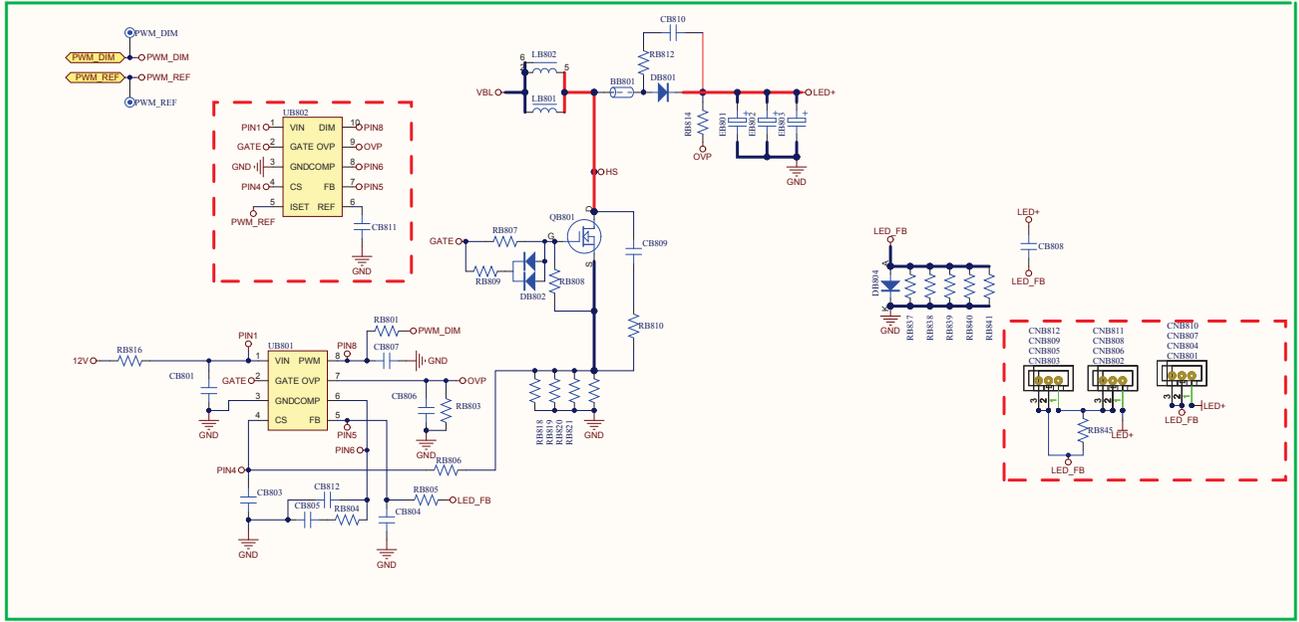
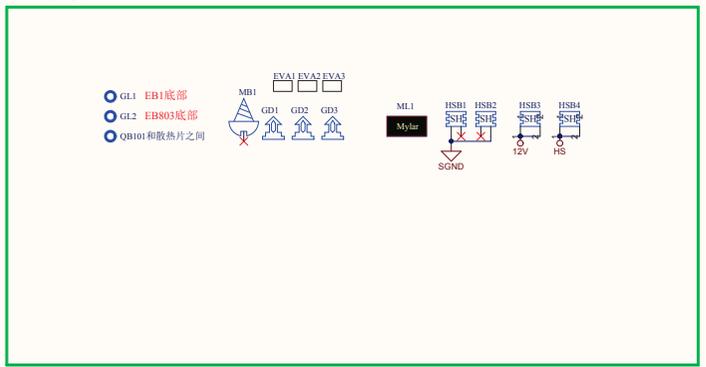
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张俊			
张俊			
张俊			
广东海信电子有限公司		广东海信电子有限公司	

EMI电路



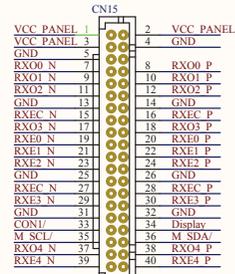
恒流电路

辅助材料

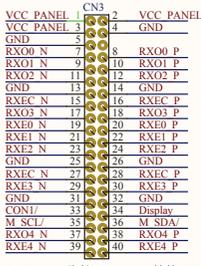
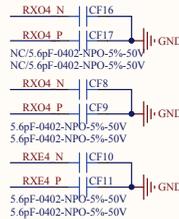


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DRAWN:	何志安	DATE:	2014-12-25
CHKD:		DATE:	2014-12-25

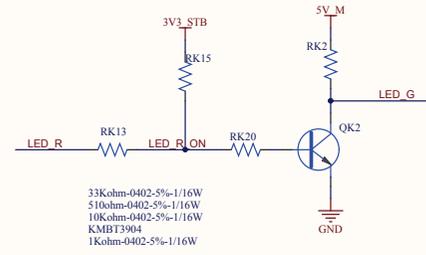
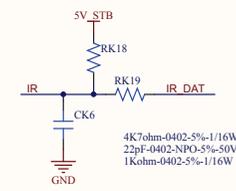
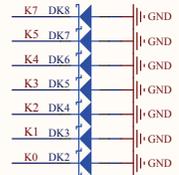
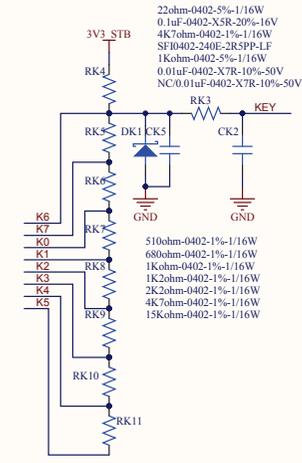
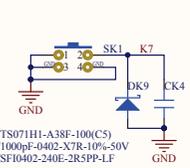
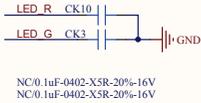
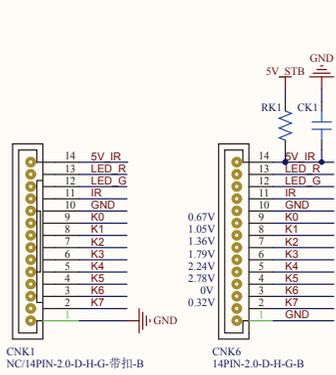
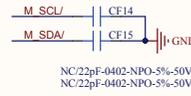
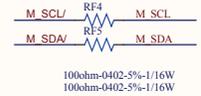
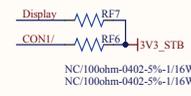
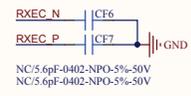
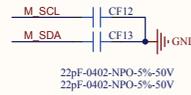


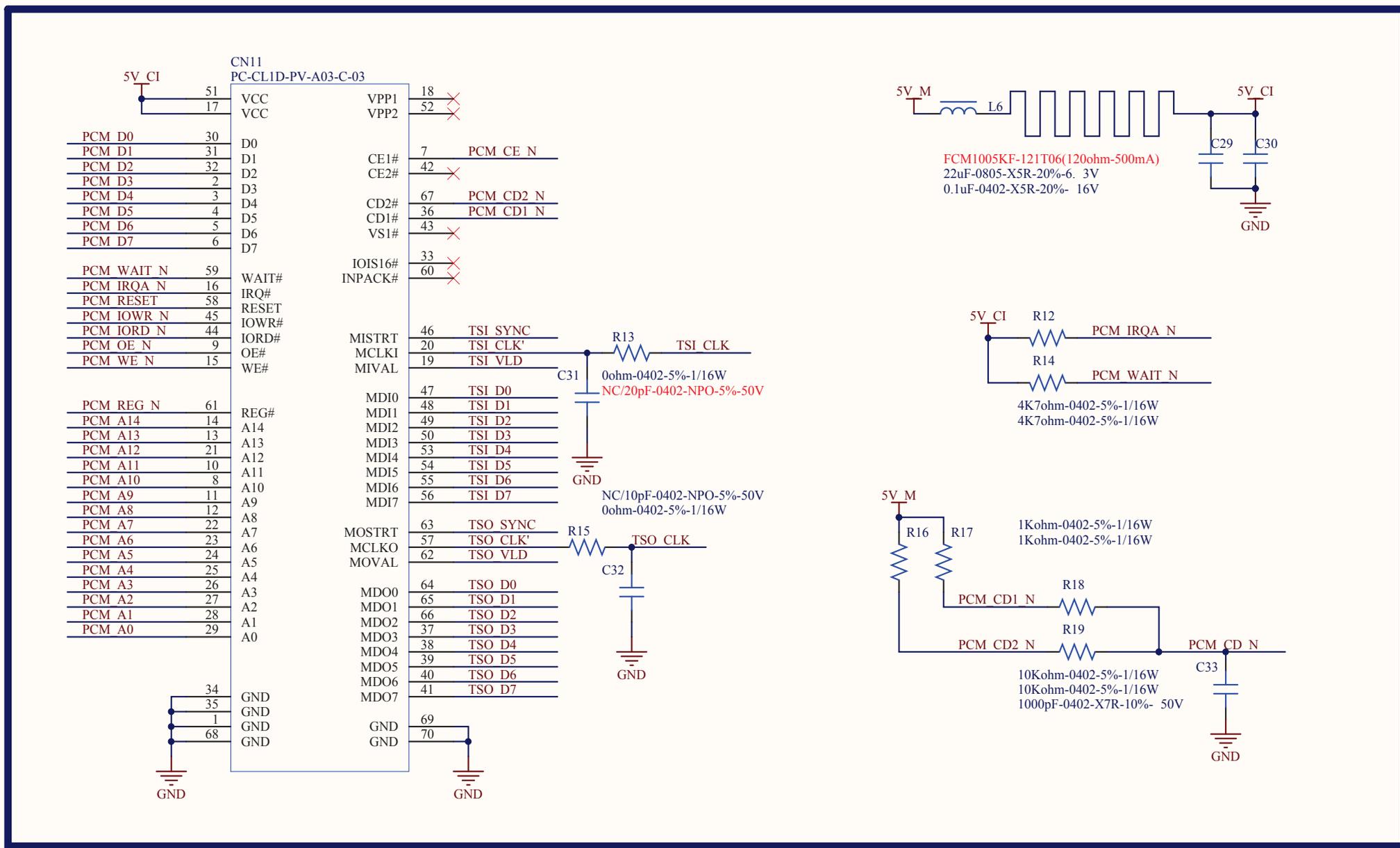


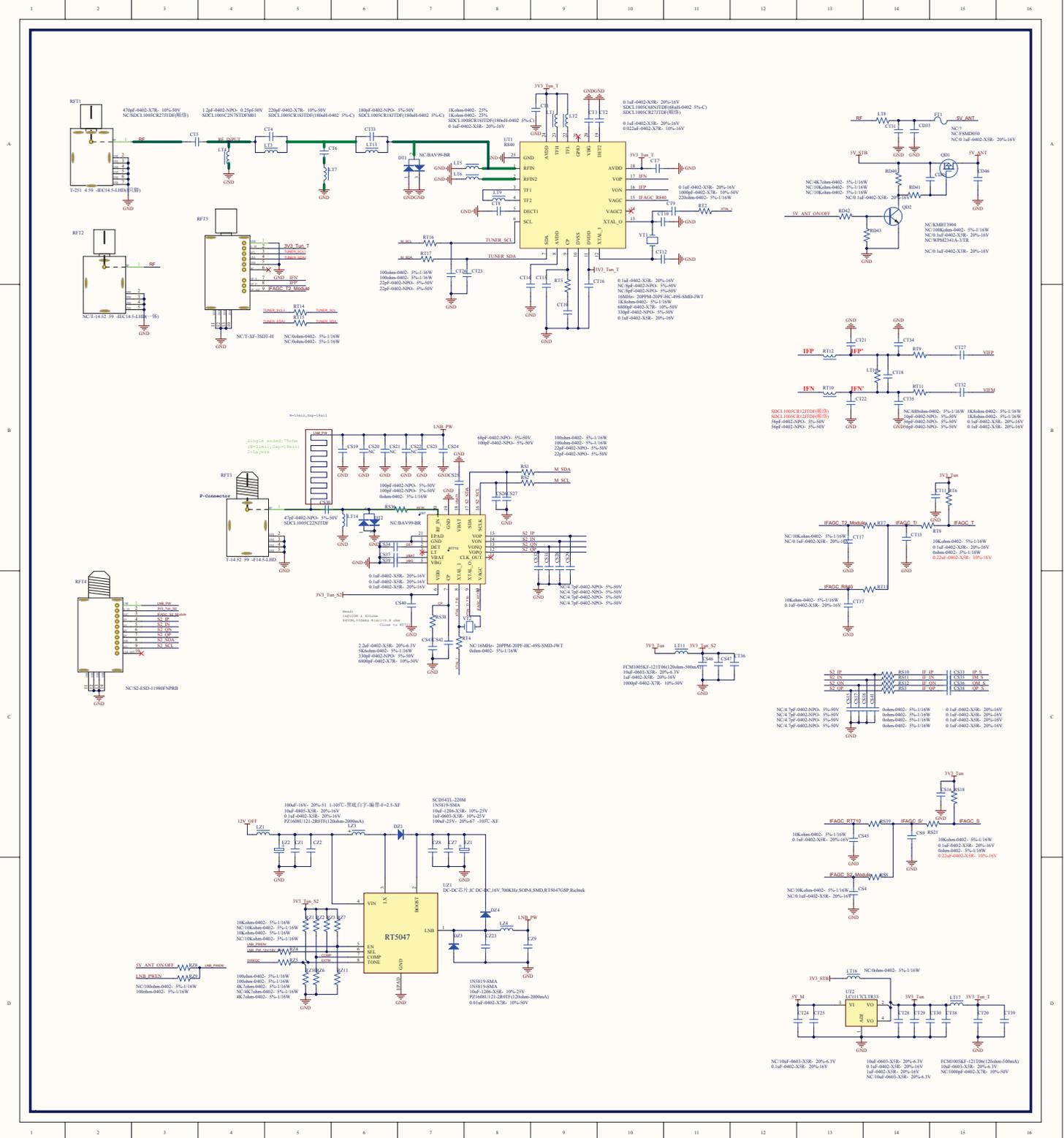
CN15
NC/连接插座,connect jack,220Pin/without pin6,D2.0,D.SNAP,Fool-proofing,Nature,L=2.6mm,DIP,CJ



220PIN-2.0-D-H-M(脚长=2.6mm)-LK(缺第6PIN)







1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

A

A

B

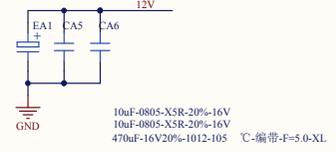
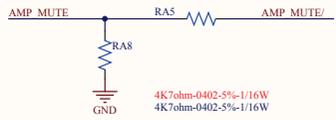
B

C

C

D

D

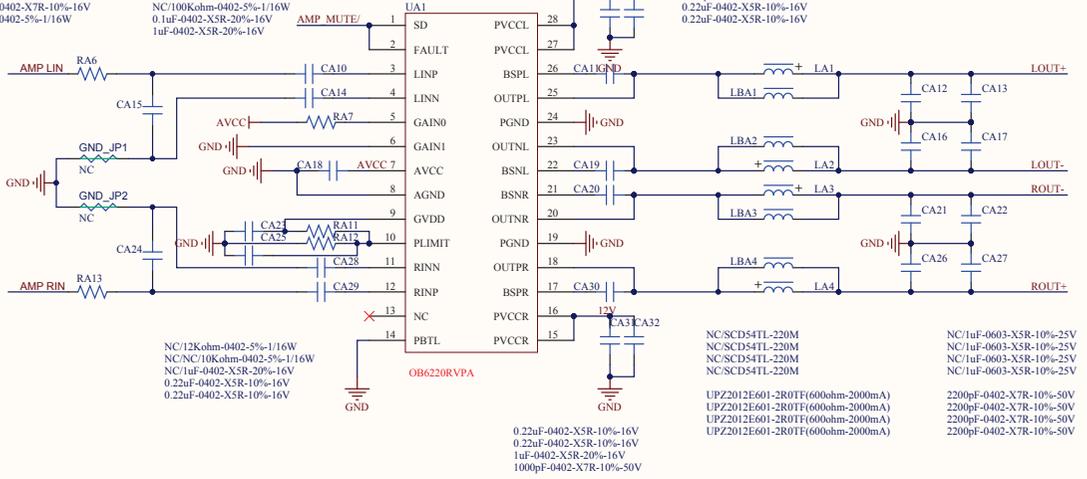
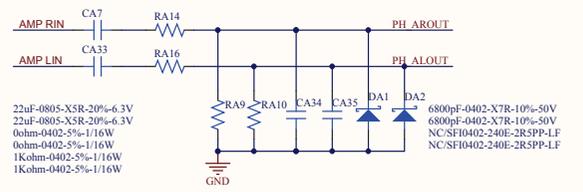
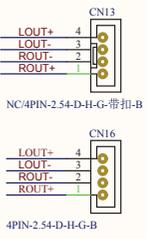


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0.033uF-0402-X7R-10%-16V
0.033uF-0402-X7R-10%-16V
100ohm-0402-5%-1/16W

0.22uF-0402-X5R-10%-16V
0.22uF-0402-X5R-10%-16V
NC/10Kohm-0402-5%-1/16W
0.1uF-0402-X5R-20%-16V
1uF-0402-X5R-20%-16V

AVCC RA18 12V
10ohm-0402-5%-1/16W

12V CA9
1uF-0402-X5R-20%-16V
1000pF-0402-X7R-10%-50V
0.22uF-0402-X5R-10%-16V
0.22uF-0402-X5R-10%-16V



NC/12Kohm-0402-5%-1/16W
NC/NC/10Kohm-0402-5%-1/16W
NC/1uF-0402-X5R-20%-16V
0.22uF-0402-X5R-10%-16V
0.22uF-0402-X5R-10%-16V

OB6220RVPA

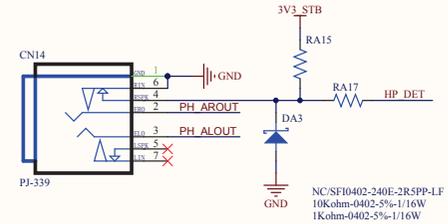
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0.22uF-0402-X5R-10%-16V
1uF-0402-X5R-20%-16V
1000pF-0402-X7R-10%-50V

NC/SCDS4TL-220M
NC/SCDS4TL-220M
NC/SCDS4TL-220M
NC/SCDS4TL-220M

NC/1uF-0603-X5R-10%-25V
NC/1uF-0603-X5R-10%-25V
NC/1uF-0603-X5R-10%-25V
NC/1uF-0603-X5R-10%-25V

UPZ2012E601-2R0TF(600ohm-2000mA)
UPZ2012E601-2R0TF(600ohm-2000mA)
UPZ2012E601-2R0TF(600ohm-2000mA)
UPZ2012E601-2R0TF(600ohm-2000mA)

2200pF-0402-X7R-10%-50V
2200pF-0402-X7R-10%-50V
2200pF-0402-X7R-10%-50V
2200pF-0402-X7R-10%-50V



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



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