



LCD Television Service Manual

Chassis: MTK8222

Product Type: LCD42V68PAM

Ver 1.0

**Hisense Electric Co., Ltd.
July, 2009**

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Service Manual

1. Precautions and notices

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

USE ONLY MANUFACTURER SPECIFIED REPLACEMENT PARTS WHEN SERVICING.

USE OF NON-AUTHORIZED PARTS WILL VOID THE MANUFACTURE'S WARRANTY

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 these 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 and pose risk of personal injury

. It is also important to understand that these CAUTIONS and NOTICES ARE NOT EXHAUSTIVE. Service should only be performed by an experienced electronics

technician trained in the proper Television safety and service methods and procedures

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 non-manufacturer's recommended parts 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. Servicetech 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, be sure to use anti-static table mats and properly use a grounding wrist strap. Keep components and tools also at this same potential.

IMPORTANT:

Always disconnect the power cord from AC outlet before replacing parts or modules.

1.1.3

To prevent electrical shock, use only a properly grounded 3 prong outlet or extension cord.

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 and will void the manufacturer's warranty.

1.1.5

Safety regulations require that after a repair the set must be returned in its original condition. In addition, prior to closing set, check that:

-Note:

>All wire harnesses and flex cables are properly routed and secured with factory tape and/or mounted cable clamps.

> All cables and connectors are properly insulated and do not have any bare wires/lead exposed.

1.1.6

- (1) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.
- (2) Do not use this product:
 - > High humidity areas
 - > In an area where any water could enter or splash into the unit.High humidity and water could damage the product and cause fire.
- (3) 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.
- (4) 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.
- (5) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- (6) Do not damage or modify the power cable. It may cause fire or electric shock.
- (7) 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.
- (8) 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.
- (9) 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 may trip the main 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

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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.

- 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.
- 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. LCD Panel Spec

LCD42V68PAM

Panel Model: V420H1-L15\JK\ROH SN: 1058010

2.1 General Description

1.1 OVERVIEW

V420H1-L15 is a 42" TFT Liquid Crystal Display module with 12-CCFL Backlight unit and 2ch-LVDS interface. This module supports 1920 x 1080 Full HDTV format and can display 16.7M colors (8-bit/color). The inverter module for backlight is built-in.

1.2 FEATURES

- High brightness (500 nits)
- High contrast ratio (4000:1)
- Fast response time (Gray to gray average 6.5 ms)
- High color saturation (NTSC 72%)
- Full HDTV (1920 x 1080 pixels) resolution, true HDTV format
- DE (Data Enable) only mode
- LVDS (Low Voltage Differential Signaling) interface
- Optimized response time for 60 Hz frame rate
- Ultra wide viewing angle : Super MVA technology
- RoHS compliance

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2.2 General Features

Item	Specification	Unit	Note
Active Area	930.24(H) x 523.26 (V) (42.02" diagonal)	mm	(1)
Bezel Opening Area	937.24 (H) x 530.26 (V)	mm	
Driver Element	a-si TFT active matrix	-	-
Pixel Number	1920 x R.G.B. x 1080	pixel	-
Pixel Pitch(Sub Pixel)	0.1615 (H) x 0.4845 (V)	mm	-
Pixel Arrangement	RGB vertical stripe	-	-
Display Colors	16.7M	color	-
Display Operation Mode	Transmissive mode / Normally black	-	-
Surface Treatment	Anti-Glare coating (Haze 11%)	-	(2)

Note (1) Please refer to the attached drawings in chapter 9 for more information about the front and back outlines.

Note (2) The spec. of the surface treatment is temporarily for this phase. CMO reserves the rights to change this feature.

3. Chassis Layout and Overall Wiring Diagrams

Chassis Layout

LCD42V68PAM

No	Description	Part No.	Type/Model	PCB/ Model
(1)	Main Board	120070	RSAG2.908.1497-3\ROH	RSAG7.820.1637\VER.E\ROH
(2)	Power Board	120173	RSAG2.908.1192-13\ROH	RSAG7.820.1185\VER.E\ROH
(3)	Keypad PCA	113354	RSAG2.908.1088\ROH	RSAG7.820.1101\VER.B\ROH
(4)	IR Board	116295	RSAG2.908.1260-2\ROH	RSAG7.820.1337\VER.B\ROH

4. Factory/Service OSD Menu and Adjustment

4.1 To enter the Factory OSD Menu

a.. With user's RC

1. Power TV On
2. Press Menu button and call up User OSD Menu
3. Select Audio-> Balance
4. Enter 0->5->3 ->2 in sequence.
Note: If necessary, re-do number keys.
5. Factory OSD appears.
6. Press Menu again and leave factory OSD.

b. With user's RC

7. Power TV On
8. Press Menu button and call up User OSD Menu
9. Select Audio-> Balance
10. Enter 0->5->3 ->2 in sequence.
Note: If necessary, re-do number keys.
11. Factory OSD appears.
12. Press Menu again and leave factory OSD.

4.2 Factory OSD Menu

4.2.1 White Balance

Note: Different source has different WB values. Before adjusting, please change to desired source.

1. Auto Color

For VGA and Component Video sources, WB values must be adjusted. And at others signal sources, the "auto colour "does not work.

Before adjusting, prepare the signal instruments such as DVD or K-8256 first, and find the video picture with gray and color bars. Then please change to desired source.

	source	Timing	Pattern	Notes
1	ADC VGA	1024*768	gray-3color	For VGA source
2	ADC HDTV	720P	gray-3color	For Component Video

Notes:

- a、Press "M" button and enter factory mode.

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- b、Press “Menu” button and enter factory OSD menu.
- c、Select the item “Auto Color” .
- d、Press VOL+ button to auto color.
- e、Close the OSD menu after 5 seconds.

3.2.2 Factory Option

Item 0	Item 1	Note
White Balance	R DRV	Red Driver adjust
	G DRV	Green Driver adjust
	B DRV	Blue Driver adjust
	R CUT	Red Cut adjust
	G CUT	Green Cut adjust
	B CUT	Blue Cut adjust

Note: Before adjusting, please change to desired source. Different source has different WB values.

Factory RESET	Zhong Shi	Qingdao Jiangxi Road factory
	Huang Dao	Huangdao Industrial Park
	Gui Yang	Gui Yang Industrial Park
	Liao Ning	Liao Ning Industrial Park
	Hungary	Hisense Hungary
	Australia	Hisense Australia
	France	Hisense France
	Clean Protected	Clean data except WB data and Auto Color data
	Clean All	Clean all data
Auto Color	For VGA and Component Video sources, WB values must be adjusted	And at others signal sources, the “auto colour” does not work.
Color Temp	Color	Standard
	R Offset	
	G Offset	
	B Offset	
Picture Mode	Brightness Min	Min Brightness
	Brightness Mid	Mid Brightness
	Brightness Max	Max Brightness
	Contrast Min	Min Contrast
	Contrast Mid	Mid Contrast
	Contrast Max	Max Contrast
	Saturation Min	Min Saturation
	Saturation Mid	Mid Saturation
	Saturation Max	Max Saturation

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Factory Option	OSD	English
	Logo Option	Devant
	To FAC	M
MODE “M” is only used for factory production.		
SW Version	Version:	Current Software version
	Panel Info:	The date of current version
	Flash:	

Note: The factory menu date varies according to different sources. Incase changing the factory data by error, you can choose to “Clean Protected”, by which you can resume the default value.

To clear the EEPROM:

- Select the item “Clean All” .
- Press VOL+ button to clear the EEPROM data.
- Close the OSD menu after 5 seconds.
- Restart the TV.

4.3 Designer Menu

Item 0	Item 1	Item 2	Note
Designer Menu	Picture Mode	SOURCE	The current program source
		Brightness Brightness	Brightness of VIVID mode
		Brightness Contrast	Contrast of VIVID mode
		Brightness Saturation	Saturation of VIVID mode
		STD Brightness	Brightness of STD mode
		STD Contrast	Contrast of STD mode
		STD Saturation	Saturation of STD mode
		Soft Brightness	Brightness of Movie mode
		Soft Contrast	Contrast of Movie mode
		Soft Saturation	Saturation of Movie mode
Audio Set	Volume Min	When value is 1 Think about the	Audio out power

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			before adjusting
	Volume 25		When value is 25 Think about the Audio out power before adjusting
	Volume Mid		When value is 50 Think about the Audio out power before adjusting
	Volume 75		When value is 75 Think about the Audio out power before adjusting
	Volume Max		When value is 100 Think about the Audio out power before adjusting
	Audio Mode	Audio Mode	Standard 、 user 、 Music 、 Speech, Music
		120HZ	Different frequencies for different Audio Mode
		500HZ	
		1.5kHZ	
		5kHZ	
		10kHZ	
	Backlight co	PVM 0-350	
		PVM 350-500	
		PVM500-1000	
		PVM 1000-10000	
		PVM 10000-	
	EMI	0	
	Power Mode	Last station	

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

5 Software Upgrading

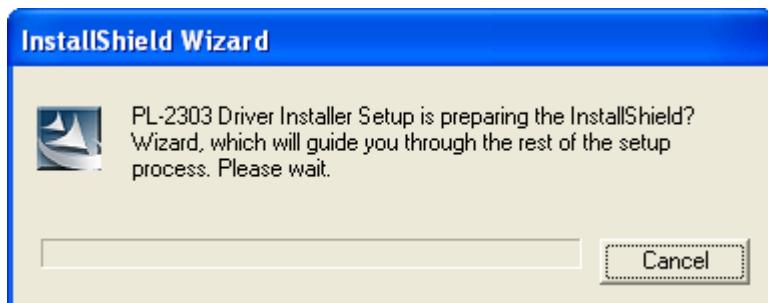
The first upgrading method:

The software is upgraded by a burning toll-MtkTool, which can burn the program file *.bin to the main board of the unit.

5.1 Get ready for upgrading

5.1.1 Install the driver

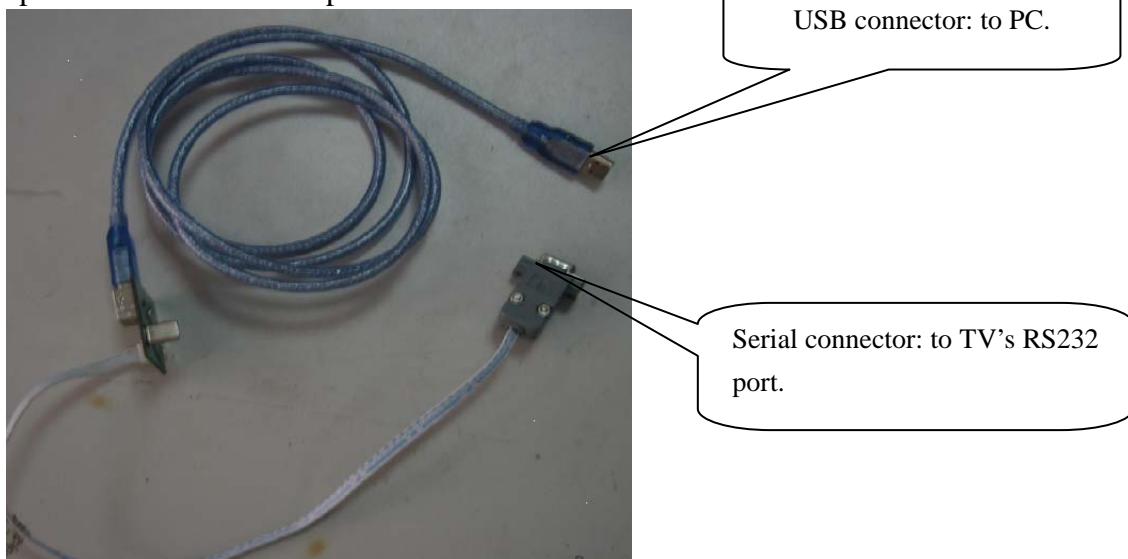
Double click the icon  MTKtools2.44.04+cp210xDriver.rar , install the driver.



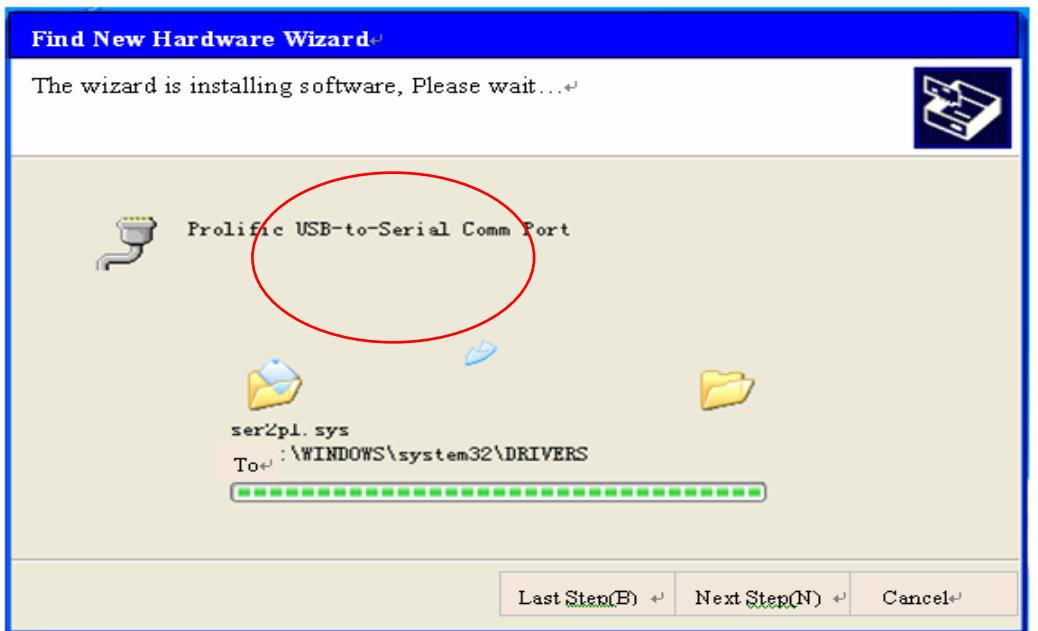
Select the default value, the driver will be installed step by step.

5.1.2 Hardware connecting

Connect the unit to your pc with a USB-to-serial port cable. USB port connects to your pc, and serial port to the TV's RS232 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.



5.2 Upgrading with the MtkTool

MTKtool is a green program needing no installation. It is saved in the folder



MTKTOOL_20061027

. There are five folders/files in this folder altogether.



MtkLog



flashinf.ini
配置设置
17 KB



MtkTool.exe

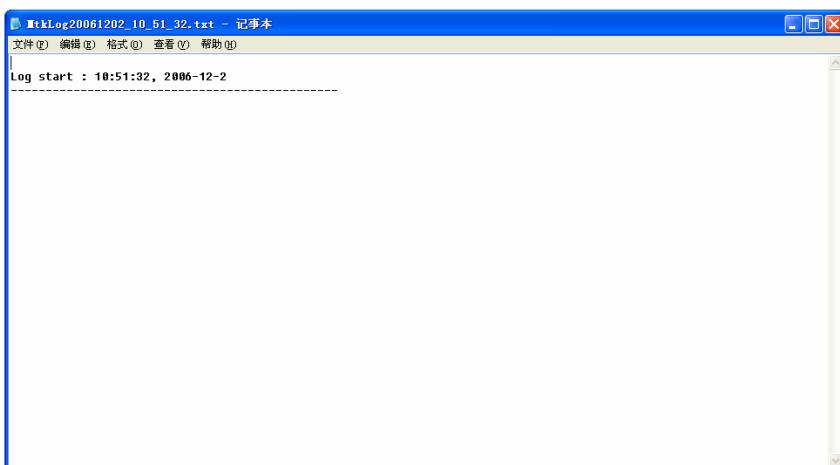


MtkTool.ini
配置设置
1 KB



Shortcut to
MtkTool.exe
快捷方式

The MtkTool using log is restored in the MtkLog folder. It records the running time and date whenever the tool is used. The log will be a txt file named by the date and time.



MtkTool.exe

After connecting the TV with your PC, double click icon, open the MtkTool.

If following error appears, it means the related port is not be set properly.



Ignore these errors, click "Confirm" and enter the MtkTool main interface, see the following picture.

Flash chip model

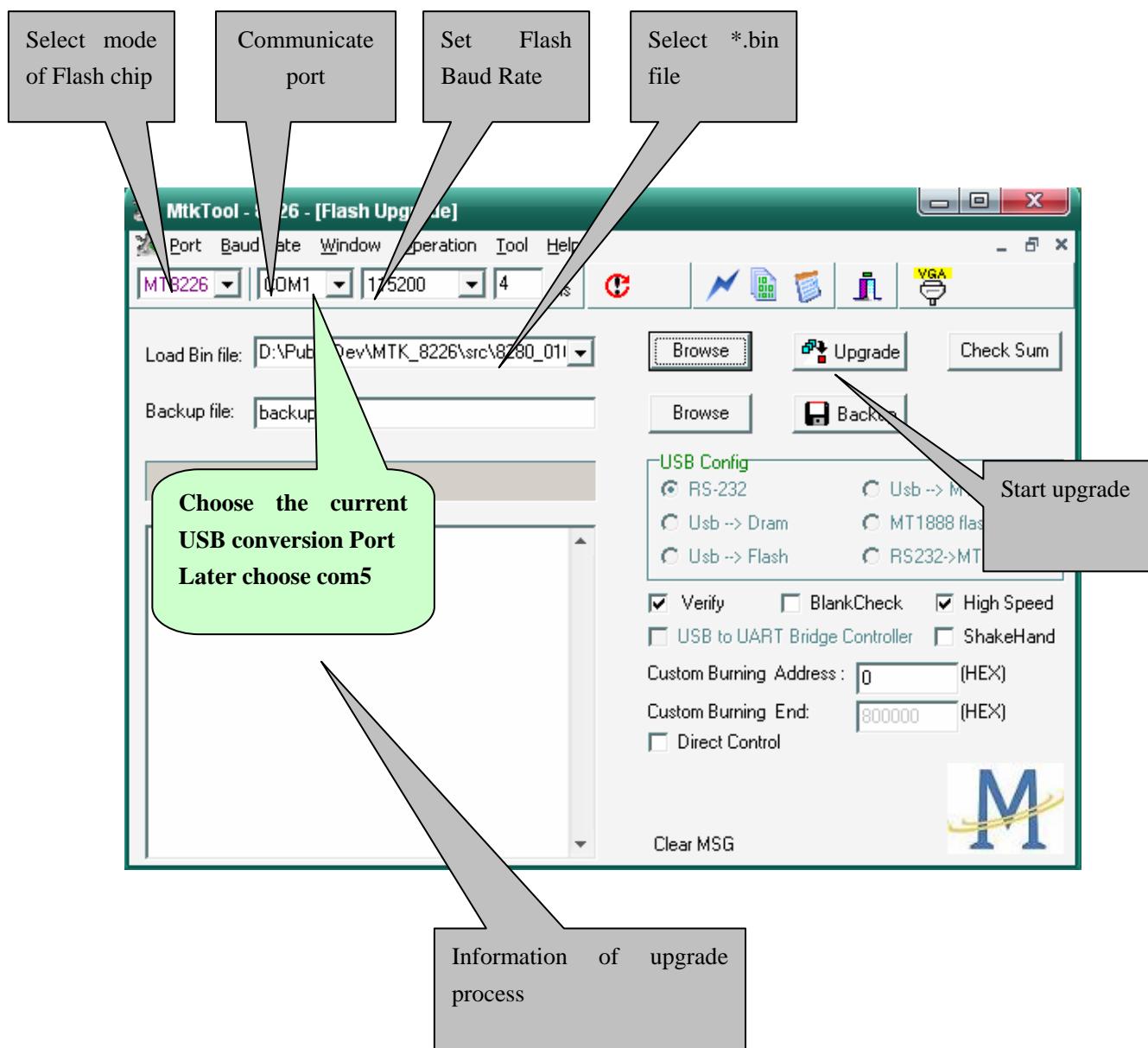
Please refer to follow steps to update the software:

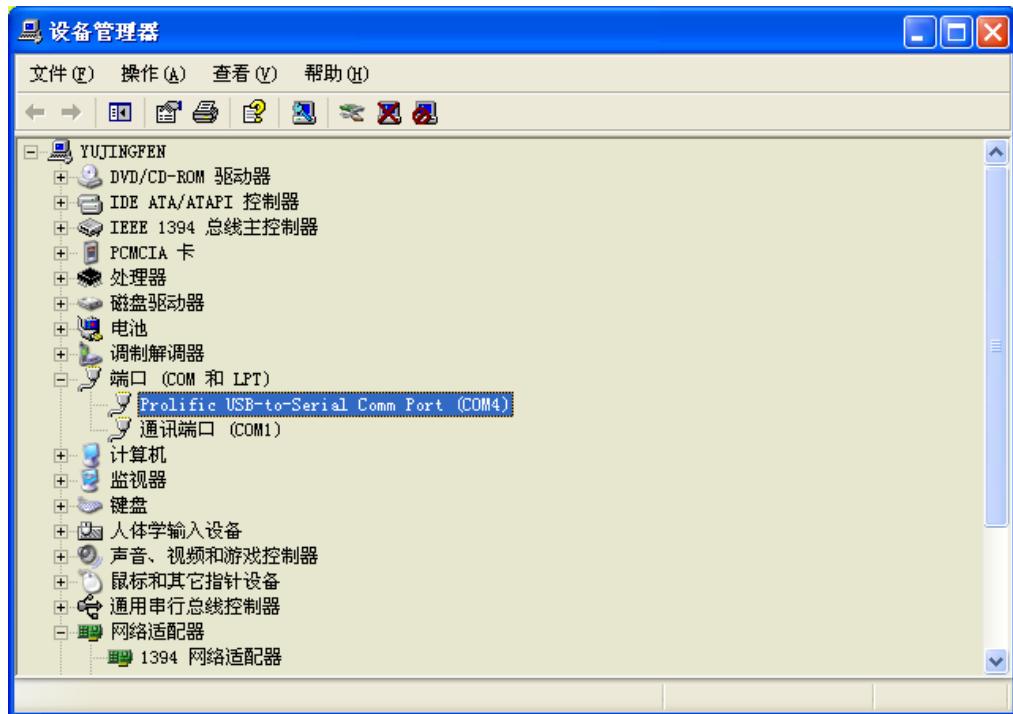
1—Select mode of Flash chip to MT8226 as the below picture.

2—Refer to the next page instruction to select the communicate port.

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- 3—Press the icon beside the baud rate and make sure it is green as the below picture.
- 4—Set the flash baud rate to 115200 as the below picture.
- 5—Click the browse button to select the *.bin file that will be updated.
- 6—Click the “start” button to update software.

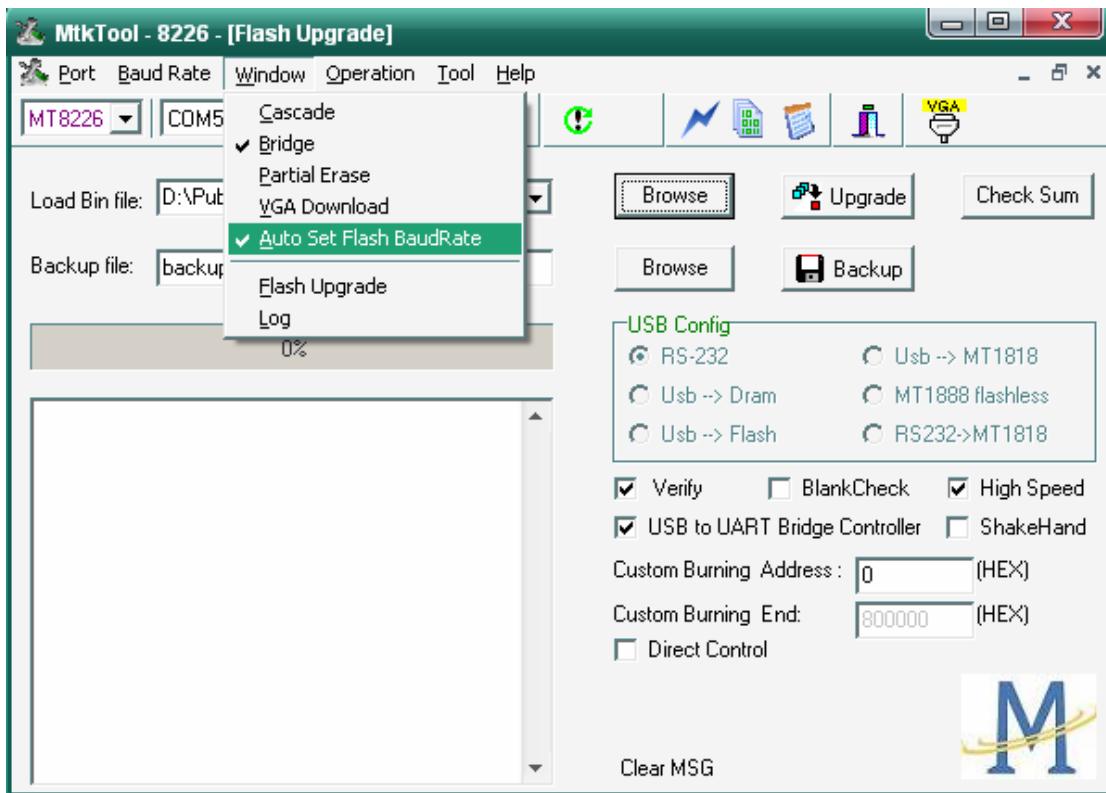




Open “Device Manager” and find which port is connected with the TV. In this operation, COM5 is connected to the TV; so, select “COM5” in the MtkTool main interface. Select the right baud rate according to chip model. For this unit(chip model is MT8226), select 115200..So choose “Auto Set Flash BaudRate”

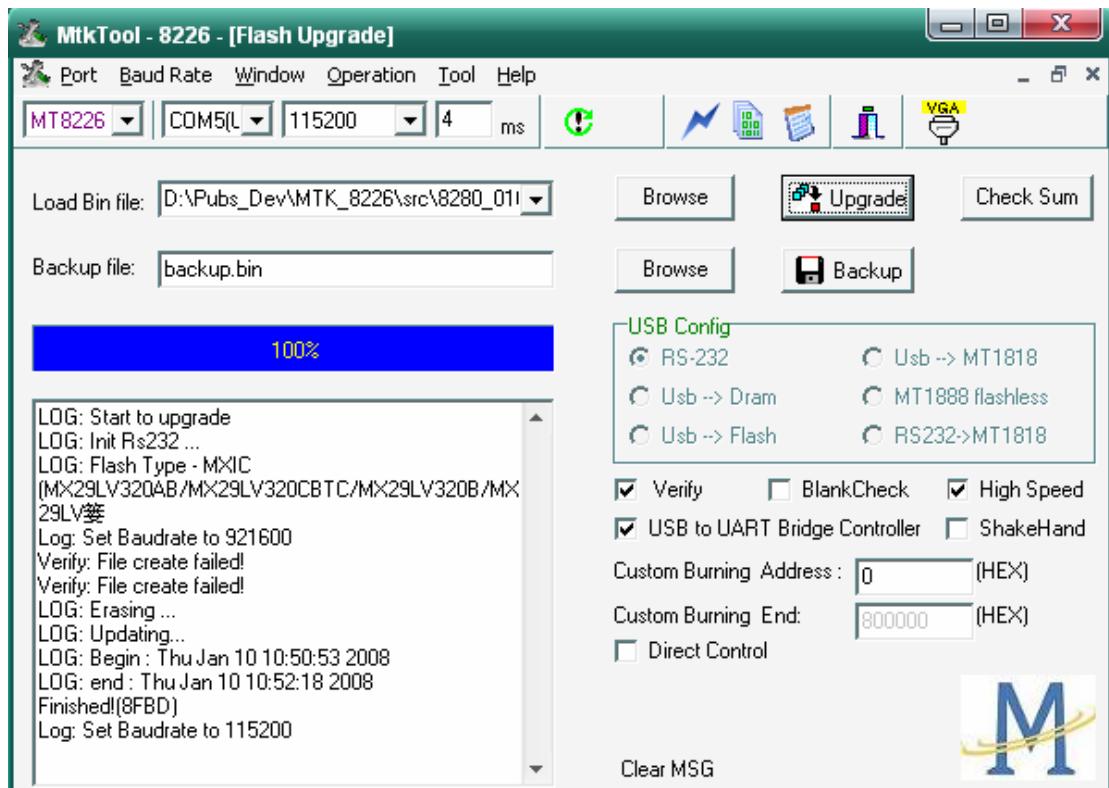
Note: Whether or not click the “Auto Set Flash Baud Rate” in the “window” menu depends on the chip type. If the flash chip does not support high speed transport, do not select this option; otherwise, reserve the selected mood.

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Click “Browse” button, find the upgrading program file, and select it. Press “Upgrade” button and start upgrading.

The following interface appears on the screen, indicating upgrading successfully.



5.3 Update with USB directly

The second update method is with USB directly:

MTK8222 Series can update with USB, the software name should be HISENSE.bin.

The Updating Steps is set the Source to "DMP interface", insert the USB(the update file HISENSE.bin,which should be in root directory),The TV automatic identify the upgrading software. step by step according as the informations of the upgrading process.



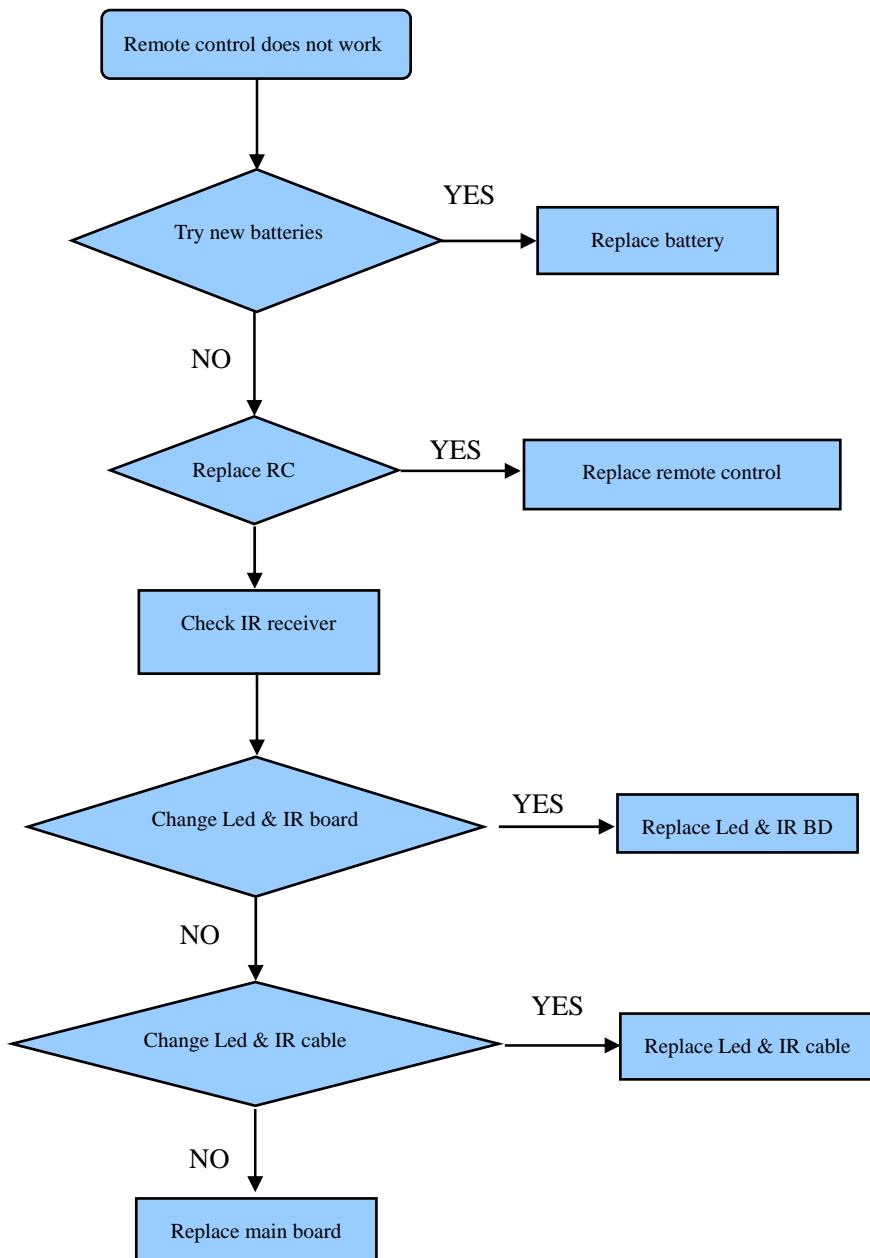
(USB to the Main board directly)



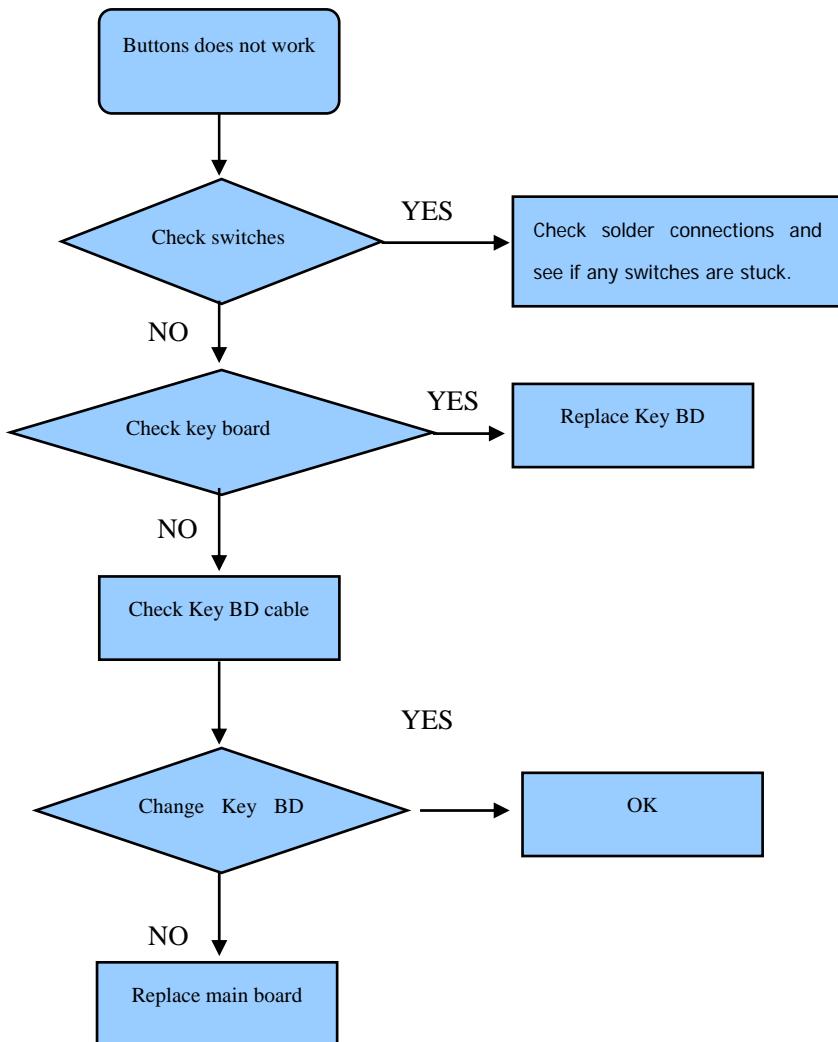
After upgrading, you must confirm the software in the Factory Menu and you'd better "CLEAR UNPROTECTLY".

6. Troubleshooting

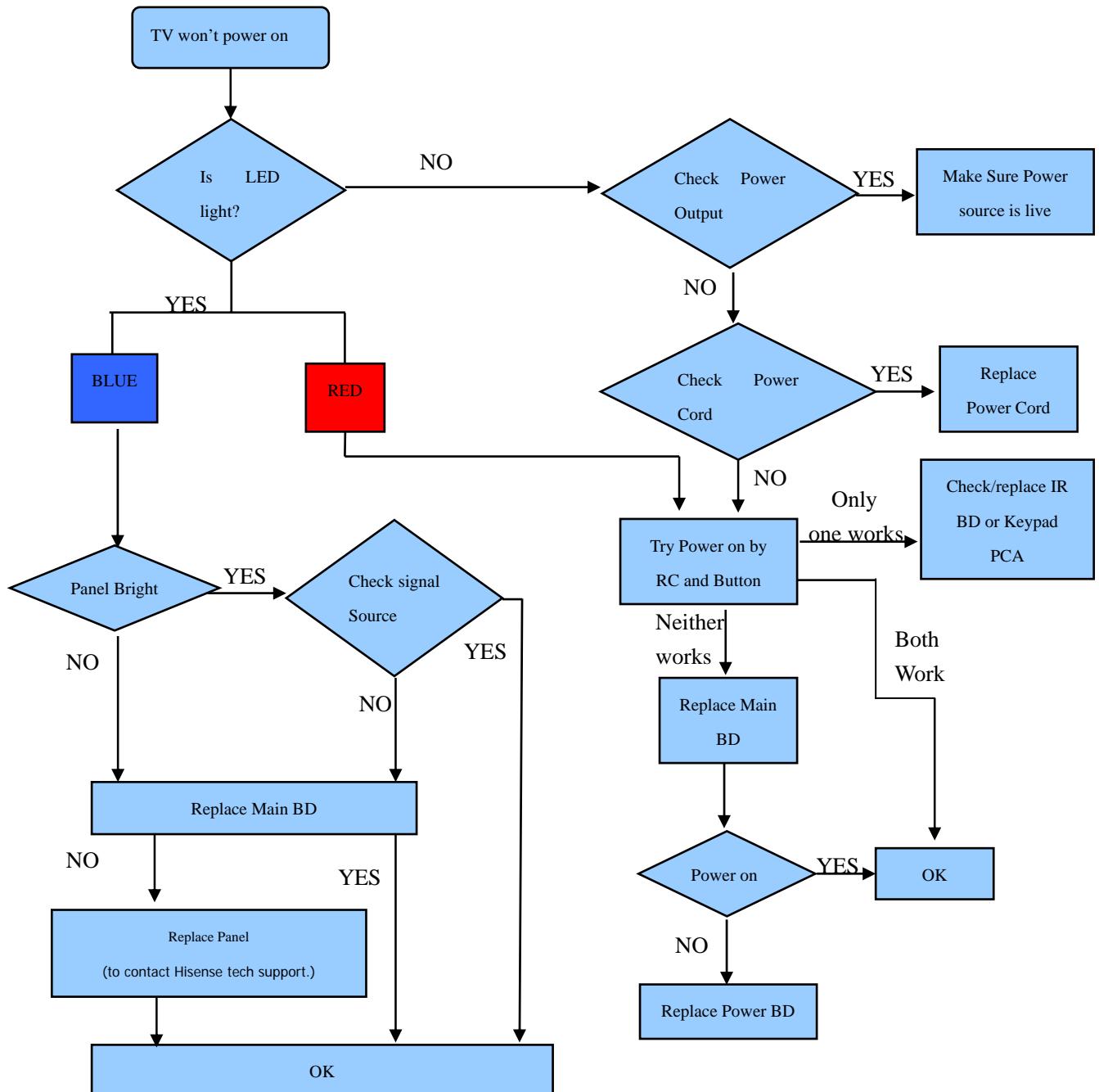
6.1 Troubleshooting for Remote Control



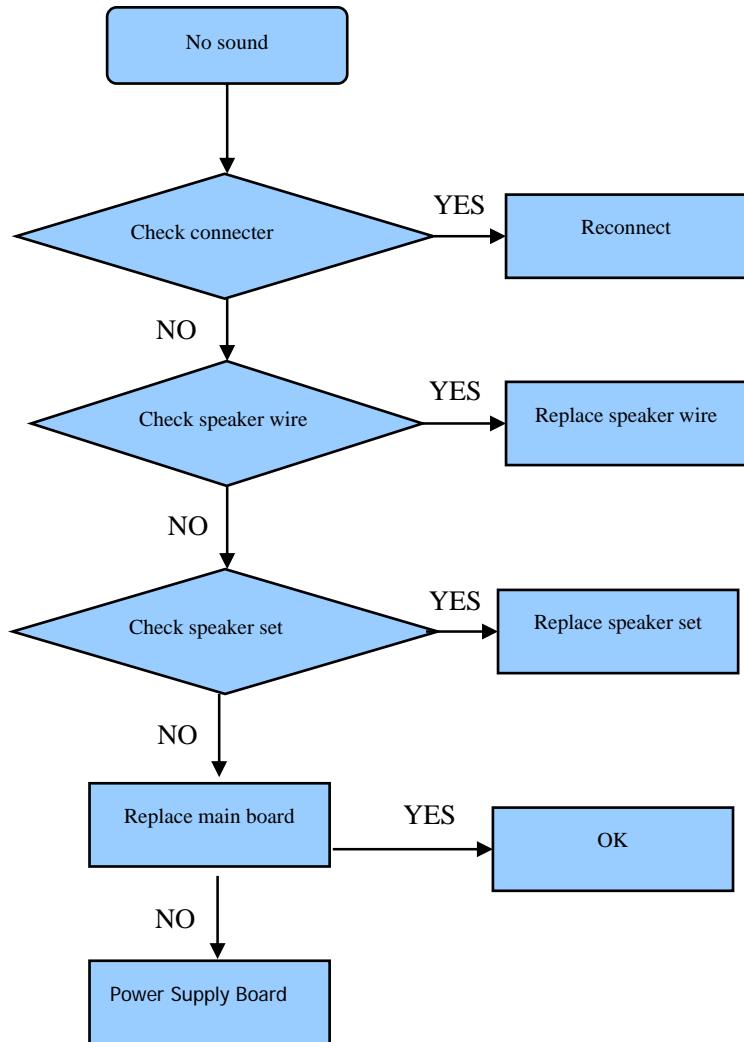
6.2 Troubleshooting for Function Key



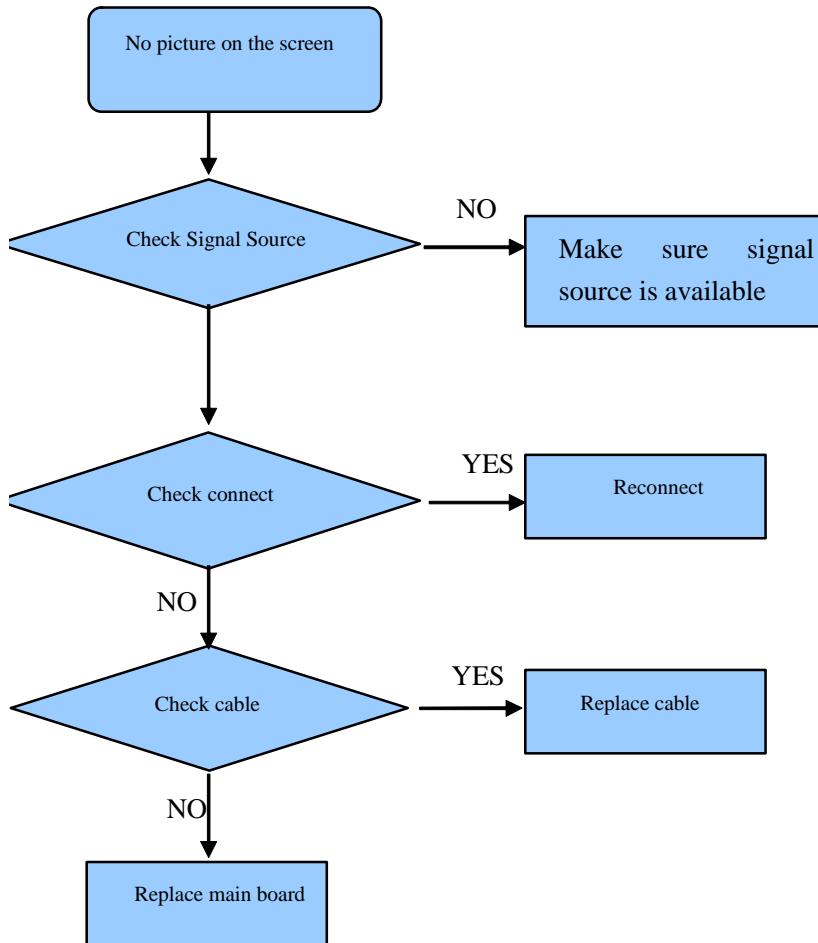
6.3 TV won't Power On



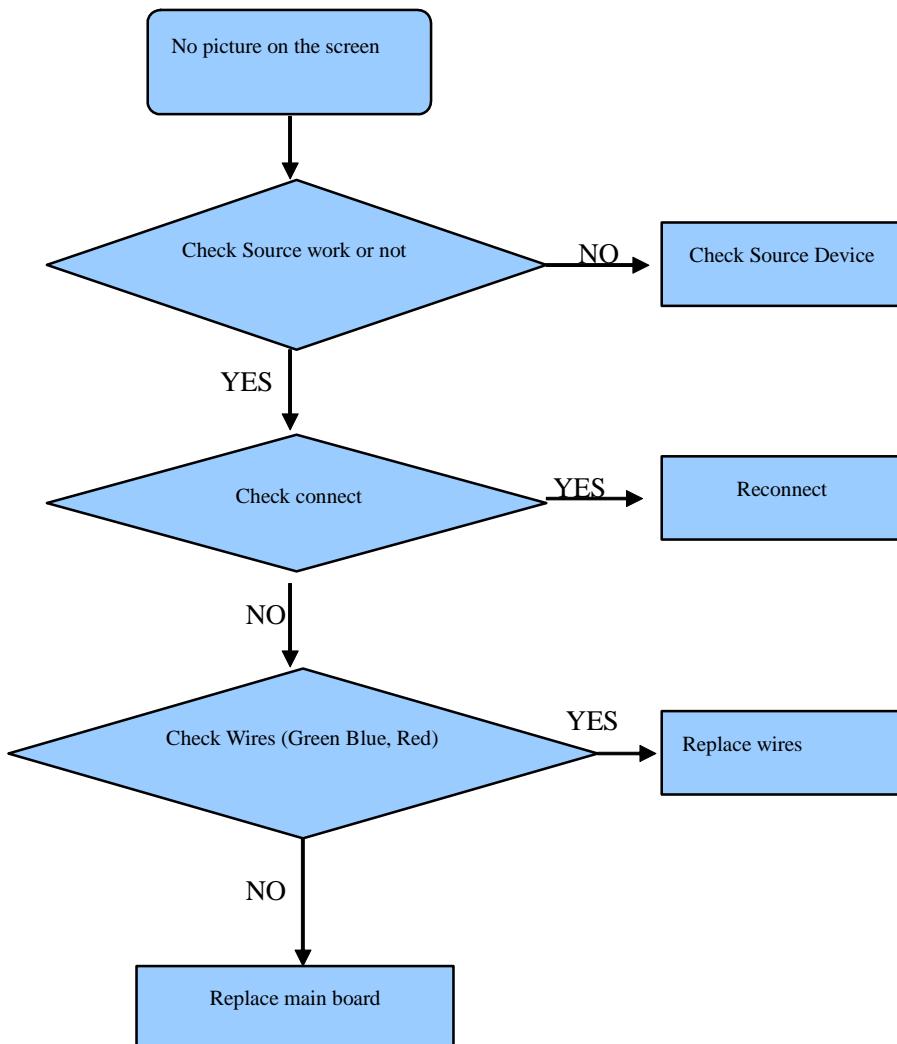
6.4 Troubleshooting for Audio



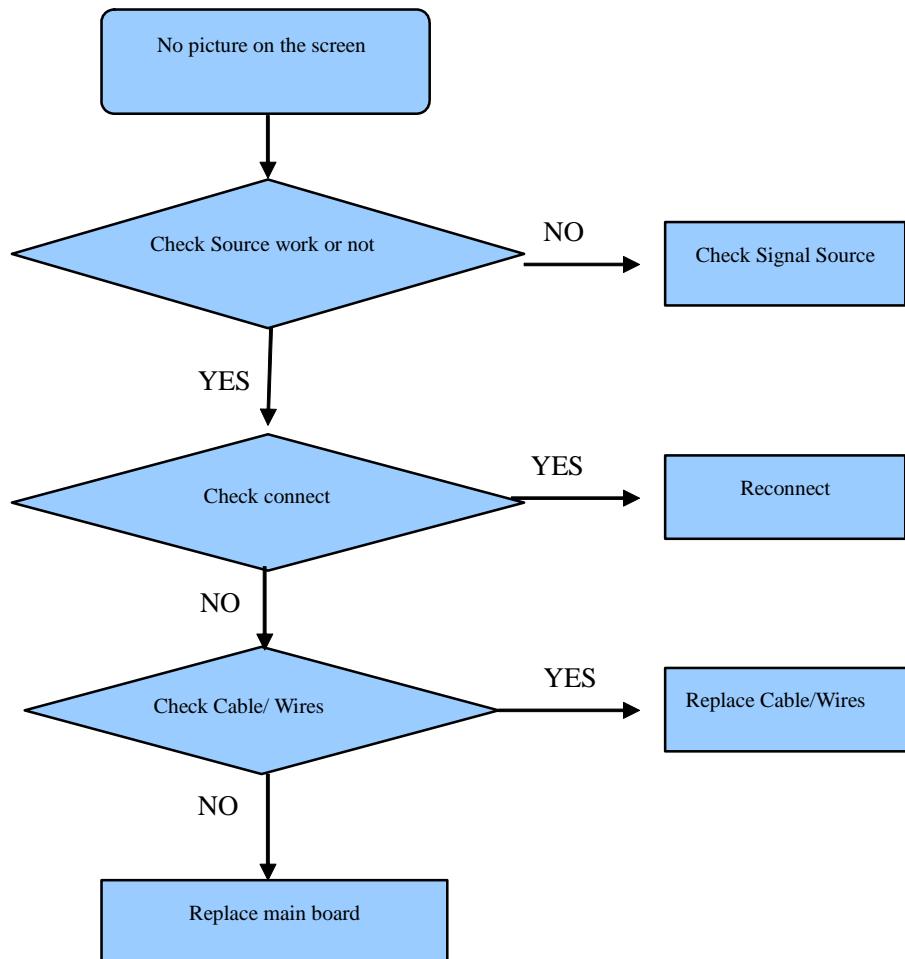
6.5 Troubleshooting for TV/VGA/HDMI input



6.6 Troubleshooting for YPbPr input



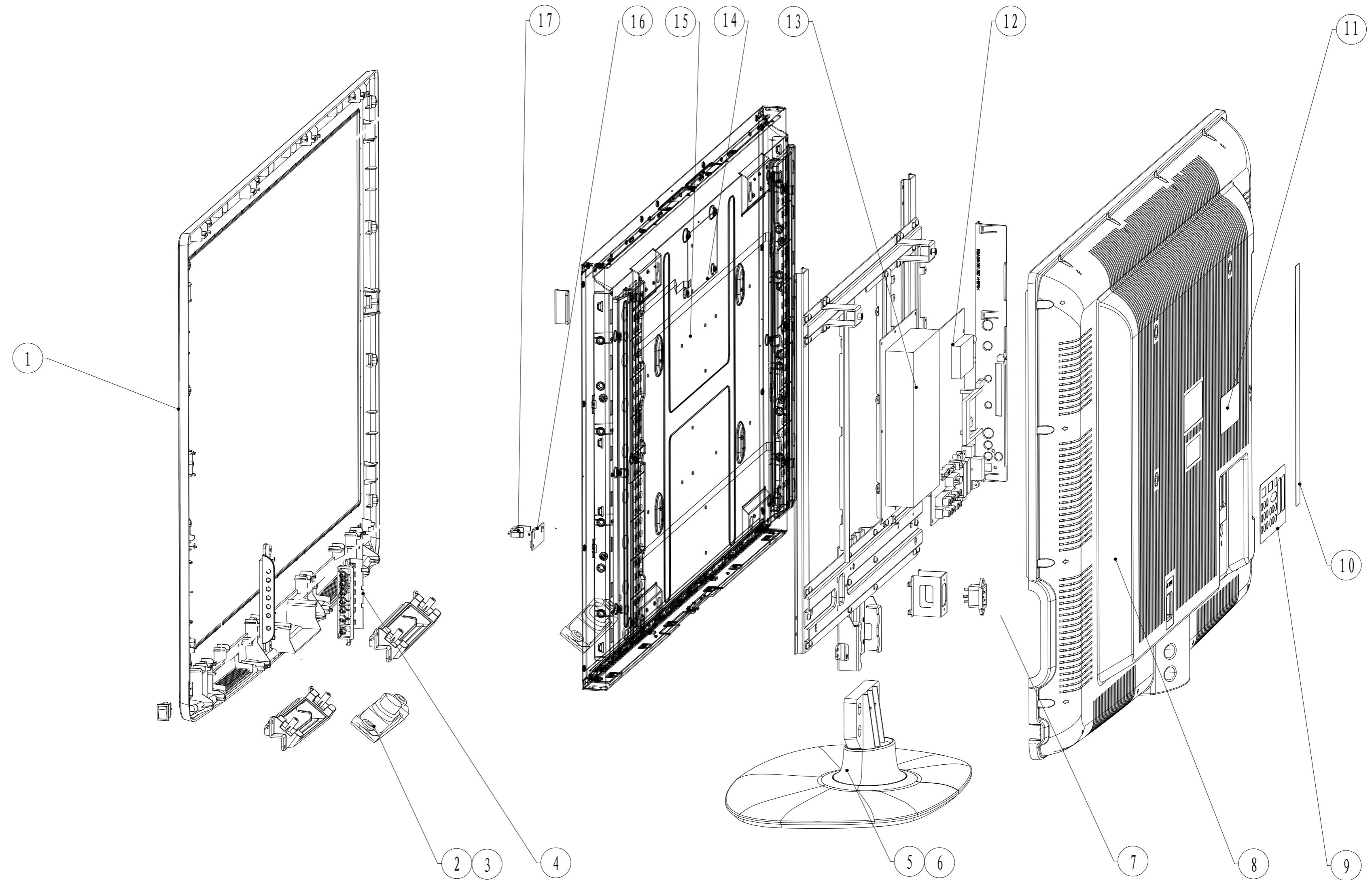
6.7 Troubleshooting for Video/S-Video input



7. Explode View

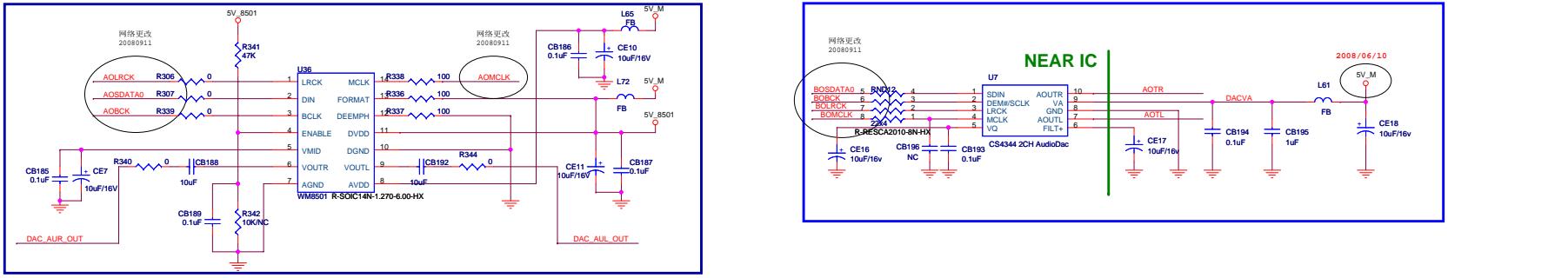
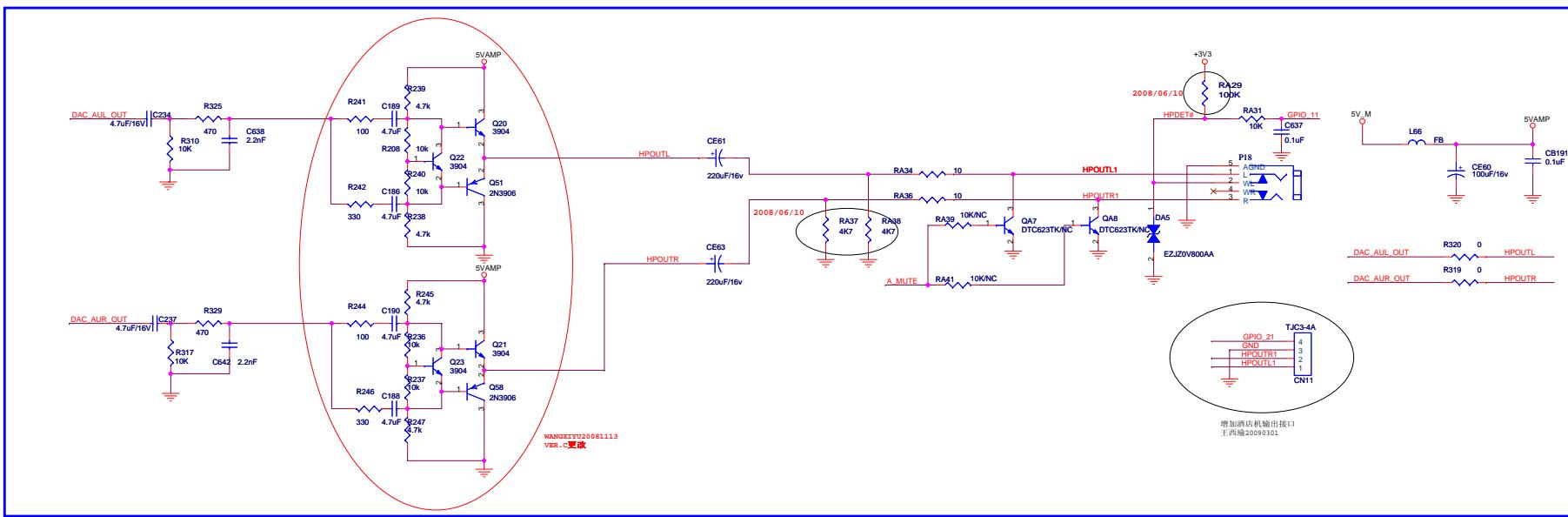
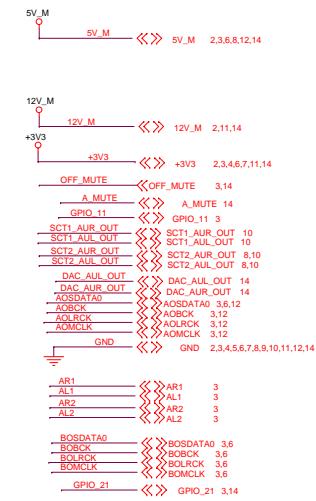
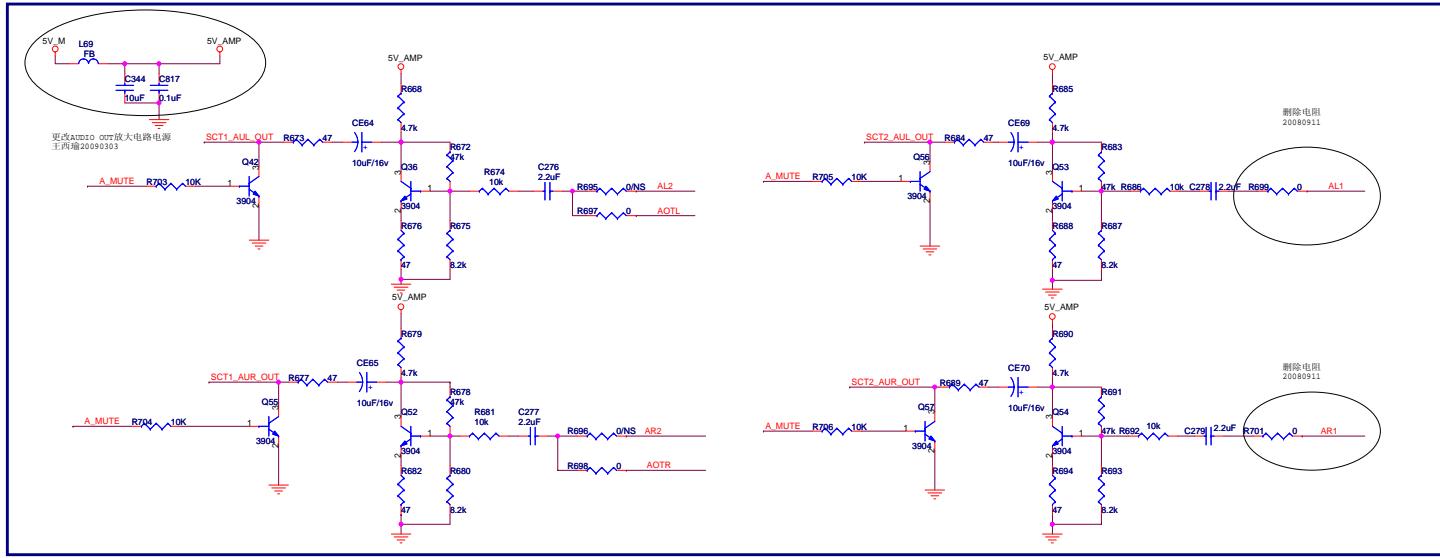
8. Schematic circuit diagram

Hisense LCD42V68PAM

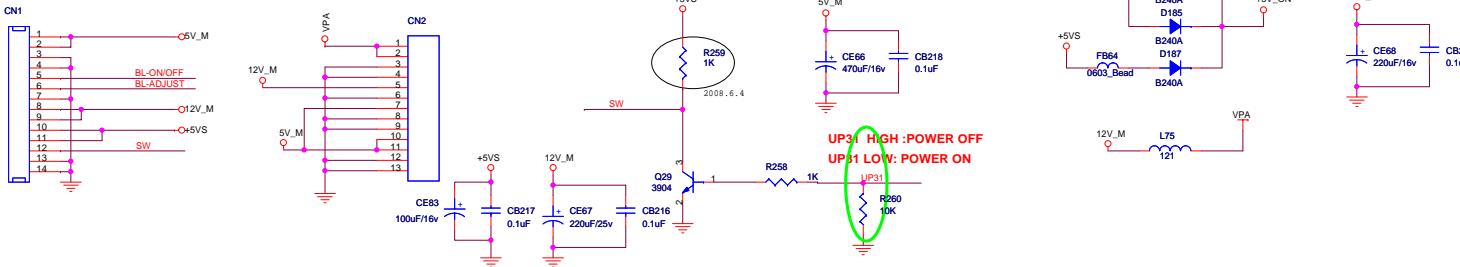


Hisense LCD42V68PAM Parts list

No.	Part Name	Qty.	Code No.	Remark
1	Front cover	1	RSAG6. 179. 276	Black
2	Speaker	2	YDT415E-10W8R-F	
3	Connector	1	TJC3H-4Y-500-900	
4	Key board unit	1	RSAG2. 908. 1088	
5	Pedestal	1	WG6. 121. 052	Black
6	Screw	4	GB/T 818-2000 M6X16	
7	Power Cord	1	YS-05+YS-22A	
8	Back cover	1	RSAG8. 074. 544	Black
9	Bottom Label	1	RSAG8. 804. 3401	
10	Side Label	1	RSAG8. 804. 3550	
11	rating label	1	RSAG8. 807. 4405	
12	Mainboard	1	RSAG2. 908. 1497-3	
13	Power board	1	RSAG2. 908. 1192-13	
14	Connector	1	HX2-2X20KLB400P-LG-1	
15	LCD PANEL	1	V420H1-L15	
16	IR board	1	RSAG2. 908. 1260-2	
17	Led Lens	1	RSAG8. 640. 065	

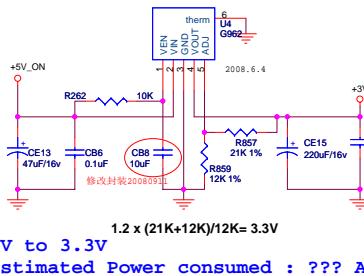


MAIN POWER

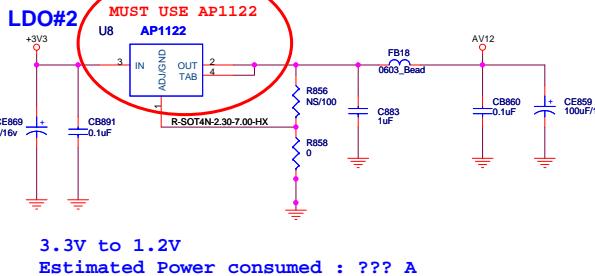


Power for MT8222 only (Always on)

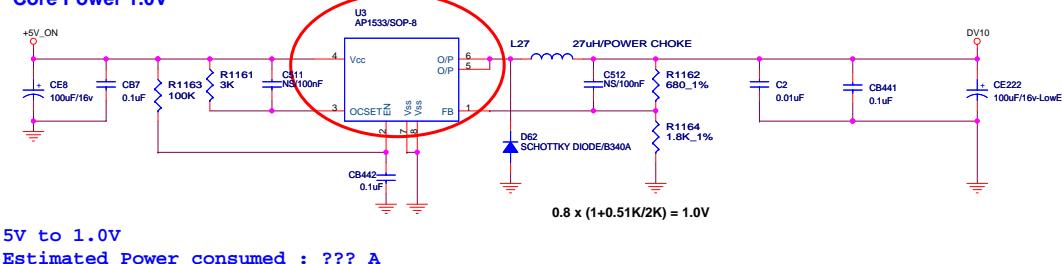
LDO#1



LDO#2

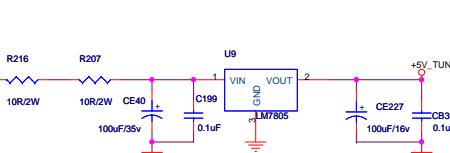
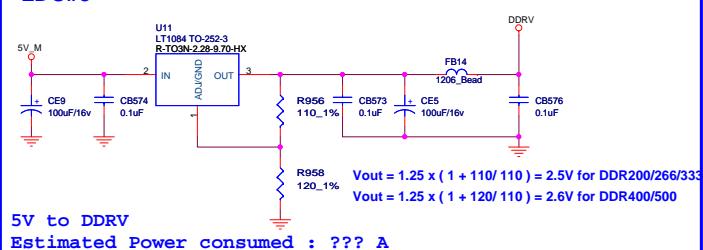


Switch Regulator MUST USE AP1533 Core Power 1.0V

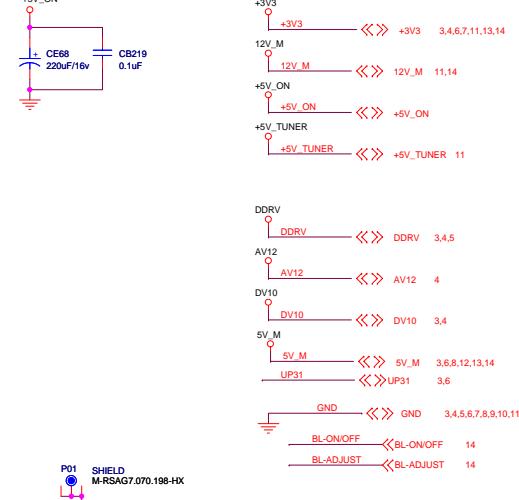


Works at normal mode

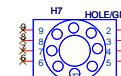
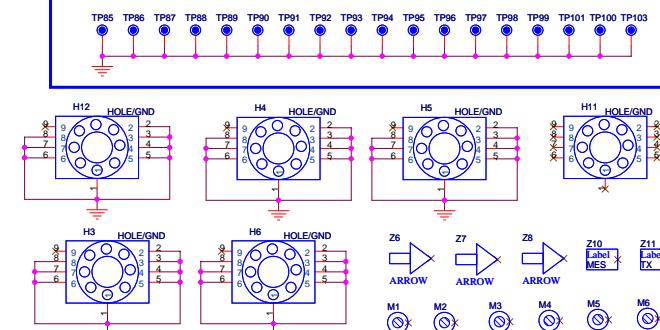
LDO#3



12V to 5V
For Tuner 5V power



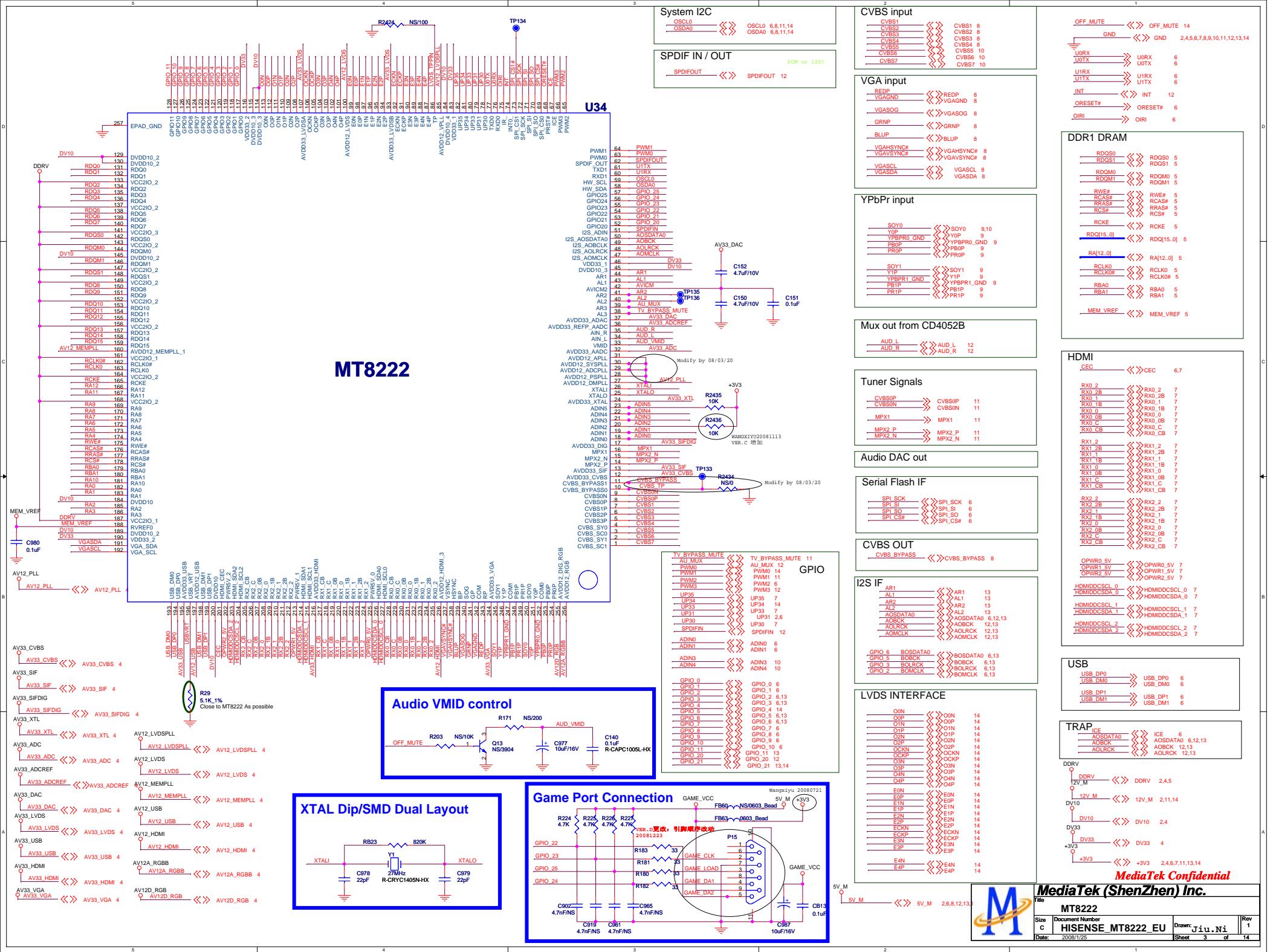
Test GND Pin (Spread Around PCB)



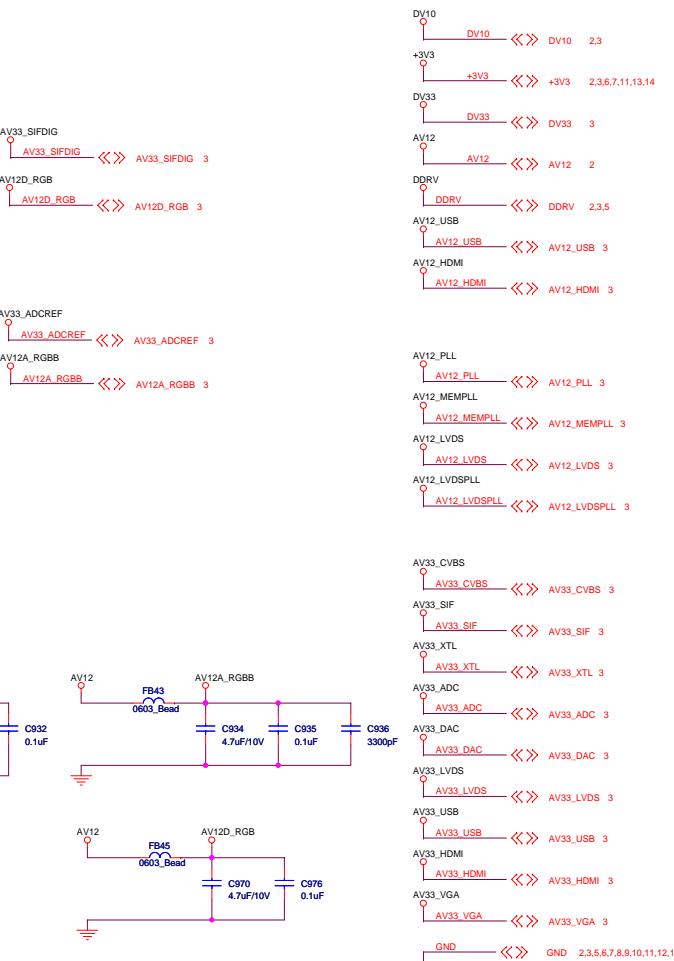
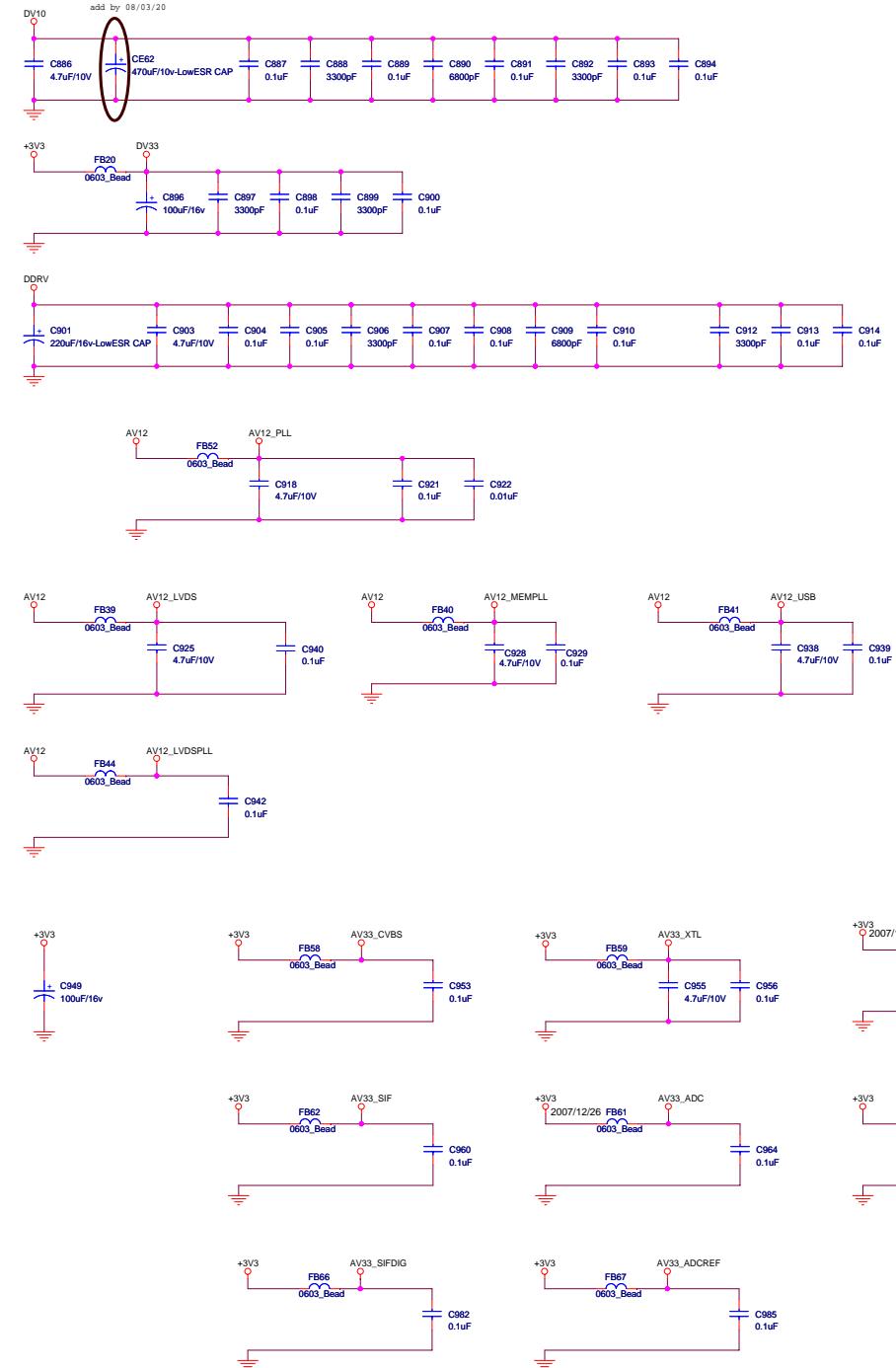
If use sdram ,NC FB14
If use ddr ,NC FB14

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MediaTek (ShenZhen) Inc.	
Title: Power LDO	
Size	Document Number
c	HISENSE_MT8222_EU
Date: 2013/11/25	Drawn: Jiu.Ni
Sheet 2 of 14	Rev 1



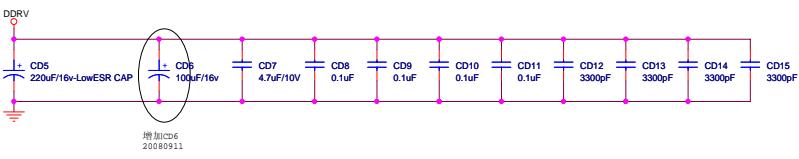
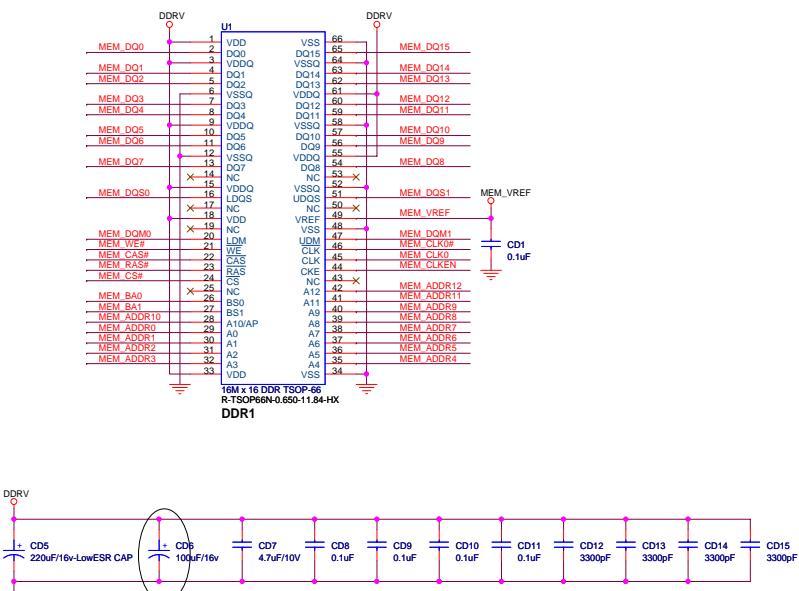
(Bypass CAPs arround MT8222)



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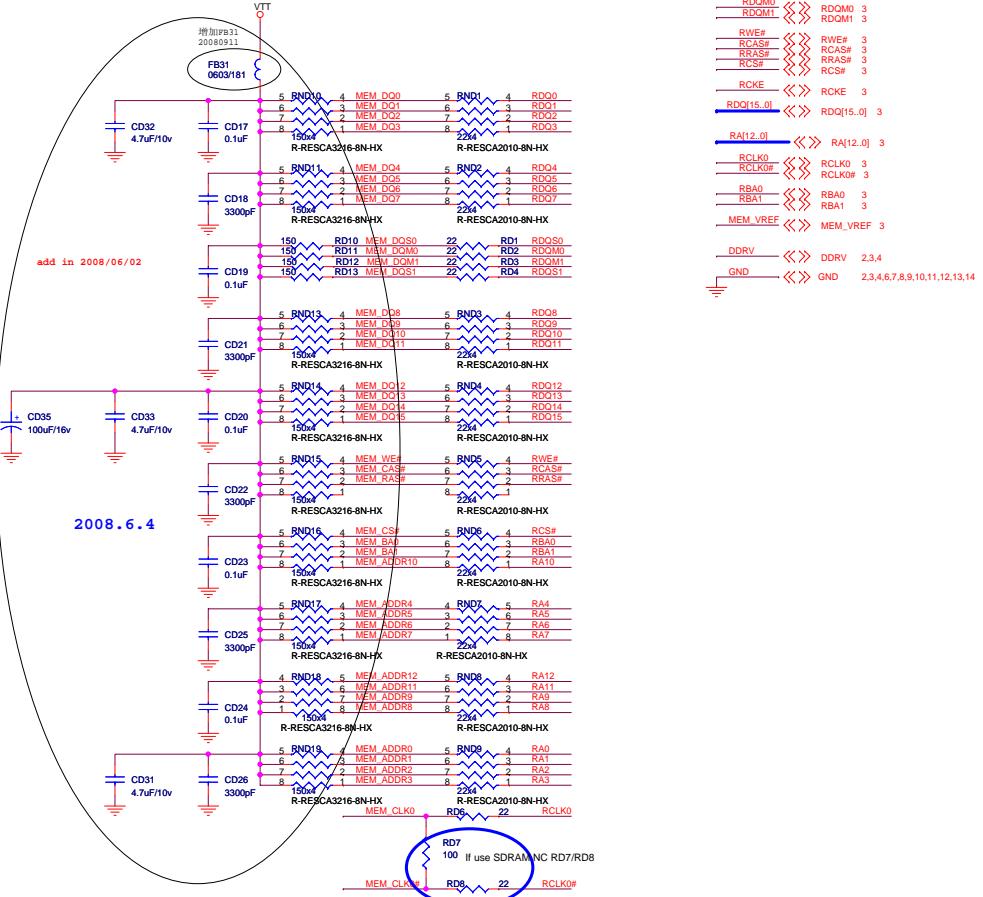
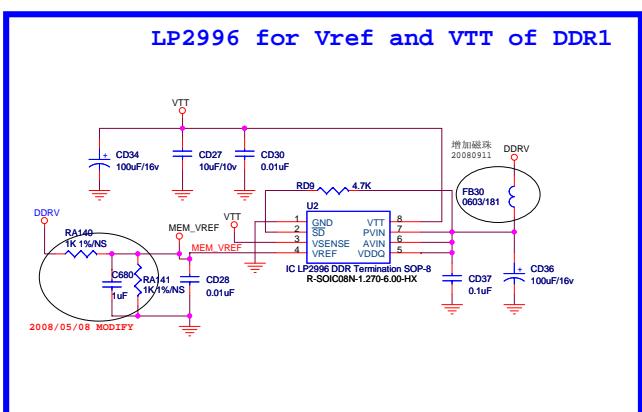
MediaTek (ShenZhen) Inc.				
MT8222 Bypass CAPs				
Size	Document Number	Title	Drawn:	Rev
Sheet 4 of 14	HISENSE_MT8222_EU	20081126	Jiu.Ni	Rev 1

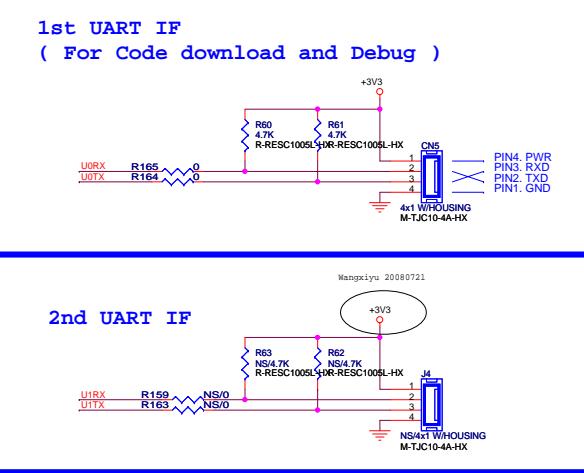
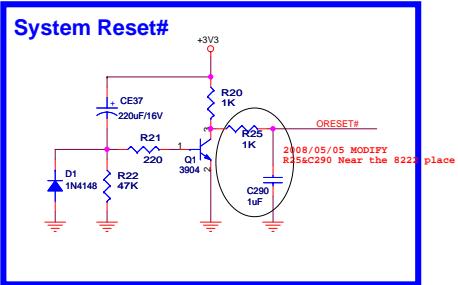
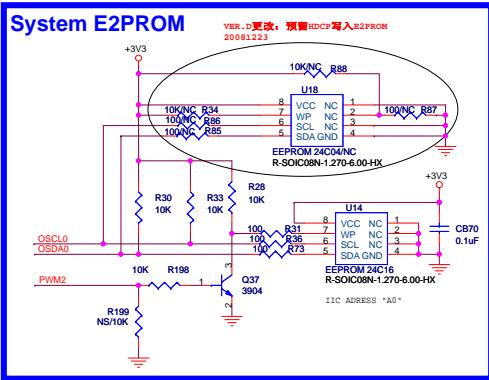
(DDR1 DRAM with Termination)



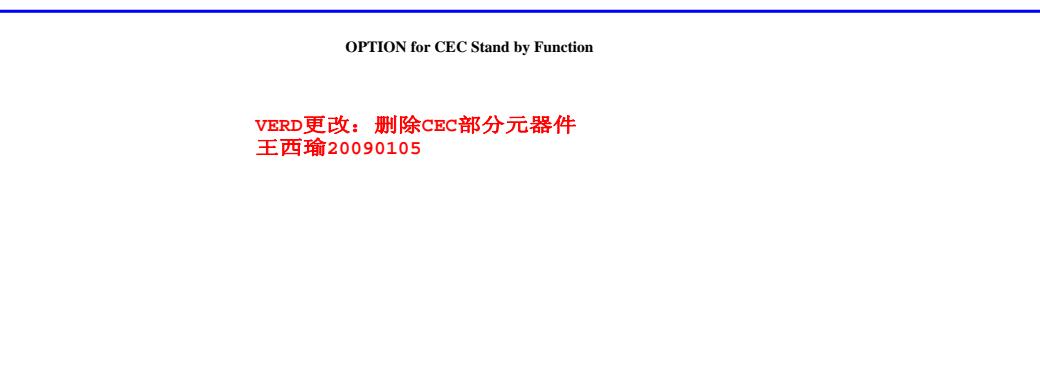
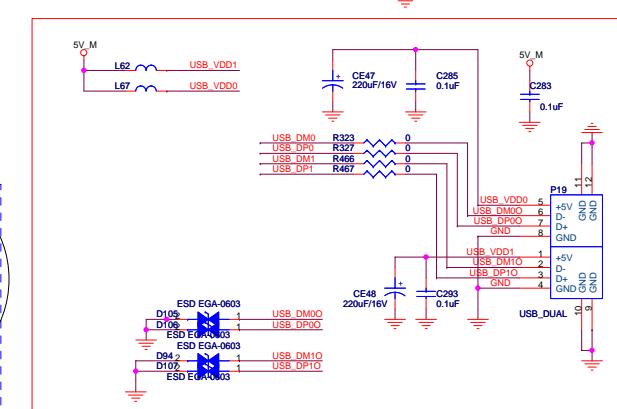
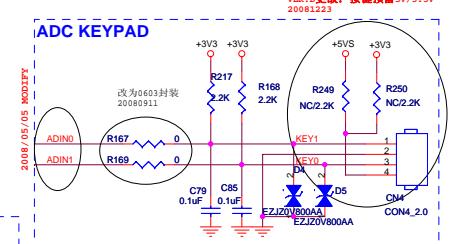
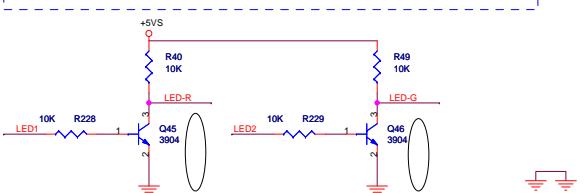
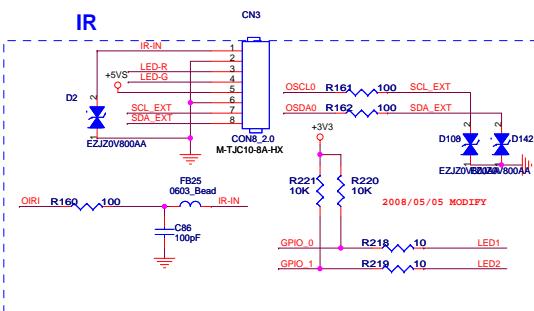
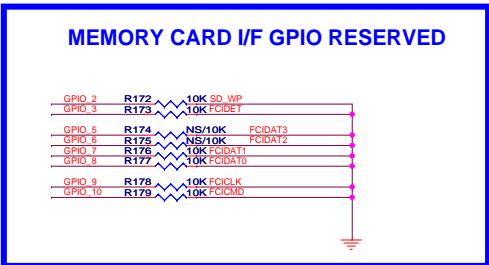
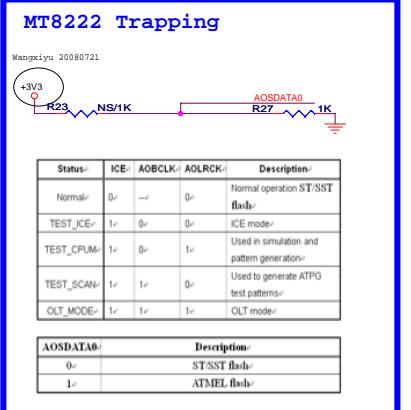
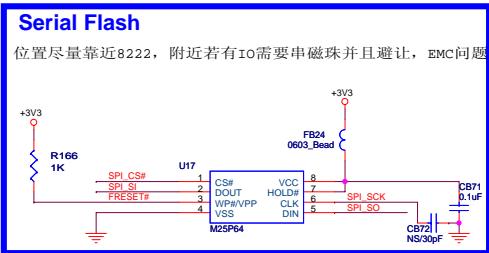
If use sdram CD34 CD26 CD27 RD9 CD28 CD29 CD30 UD2 NC

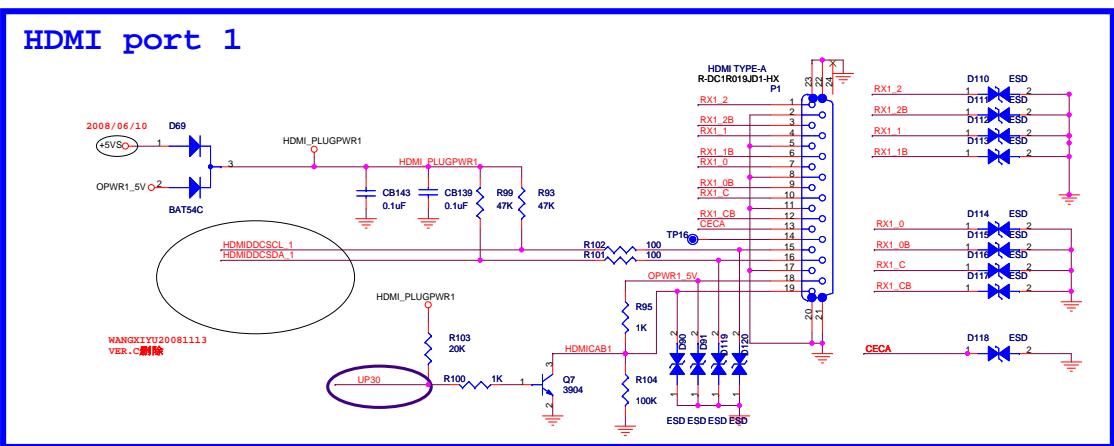
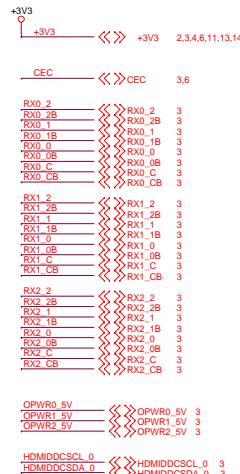
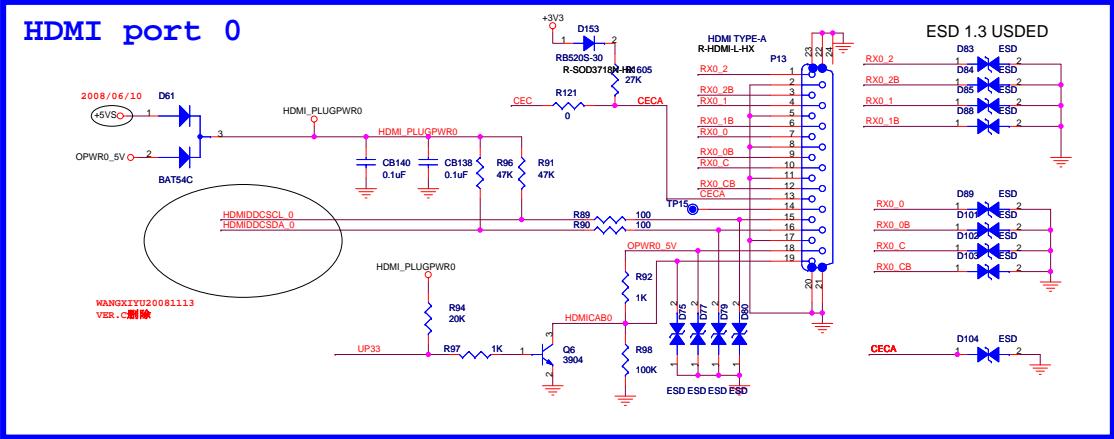
If use ddr CD34 CD26 CD27 RD9 CD28 CD29 CD30 UD2 ON



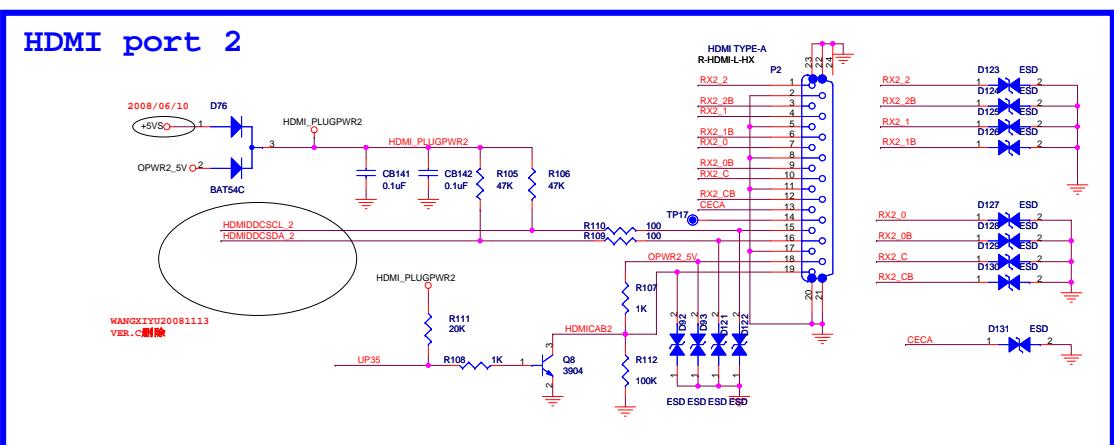


PWM2	>> PWM2	3
ORESET#	>> ORESET#	3
OIRI	>> OIRI	3
U0RX	>> U0RX	3
U0TX	>> U0TX	3
UIRX	>> UIRX	3
UITX	>> UITX	3
USB_DP0	>> USB_DP0	3
USB_DM0	>> USB_DM0	3
USB_DP1	>> USB_DP1	3
USB_DM1	>> USB_DM1	3
OSCL0	<<	OSCL0 3,8,11,14
OSDA0	<<	OSDA0 3,8,11,14
GPIO_2	<<	GPIO_2 3,13
GPIO_3	<<	GPIO_3 3,13
GPIO_5	<<	GPIO_5 3,13
GPIO_6	<<	GPIO_6 3,13
GPIO_7	<<	GPIO_7 3,13
GPIO_8	<<	GPIO_8 3
GPIO_9	<<	GPIO_9 3
GPIO_10	<<	GPIO_10 3





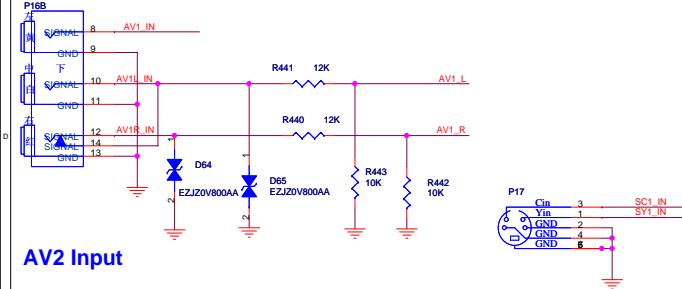
(HDMI Hot Plug Detect)



1. E2P供电更改
2. 各信号上ESD器件更改

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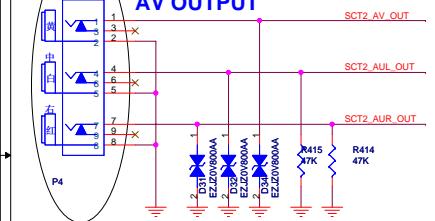
AV1+S-Video1 Input



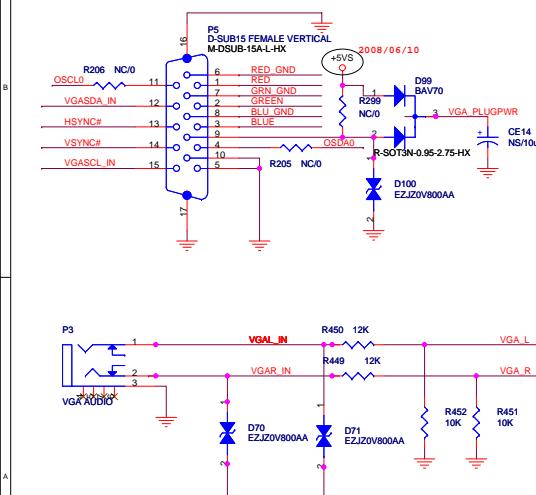
AV2 Input



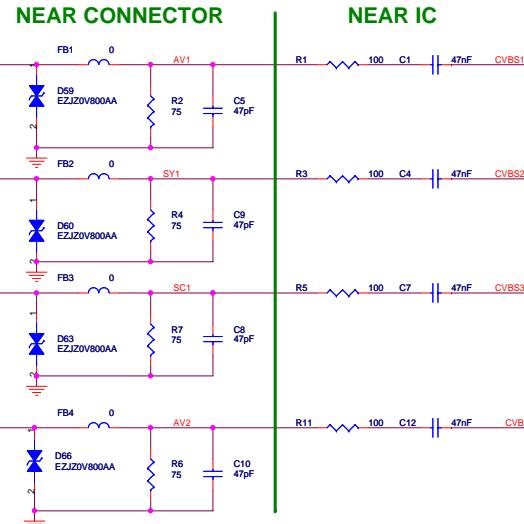
AV OUTPUT



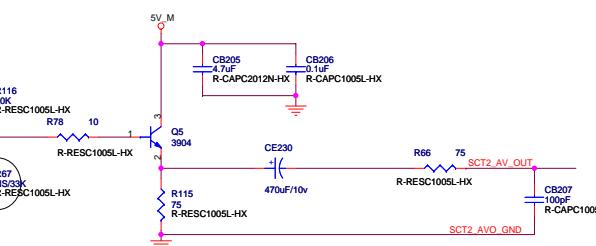
Only for US, EU not stuff



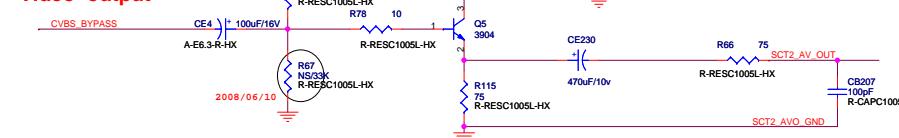
NEAR CONNECTOR



NEAR IC



Video output



CVBS1
CVBS2
CVBS3
CVBS4

CVSS1 3
CVSS2 3
CVSS3 3
CVSS4 3

GND 2,3,4,5,6,7,9,10,11,12,13,14

AV1_L <> AV1_L 12
AV1_R <> AV1_R 12
AV2_L <> AV2_L 12
AV2_R <> AV2_R 12

5V_M 5V_M 2,3,6,12,13,14
SCT2_AV_OUT <> SCT2_AV_OUT 10
SCT2_AUL_OUT <> SCT2_AUL_OUT 10,13
SCT2_AUR_OUT <> SCT2_AUR_OUT 10,13
CVBS_BYPASS <> CVBS_BYPASS 3

+5V_ON +5V_ON 2
VGASOG <> VGASOG 3
REDP <> REDP 3
VGAGND <> VGAGND 3
GRNP <> GRNP 3
BLUP <> BLUP 3

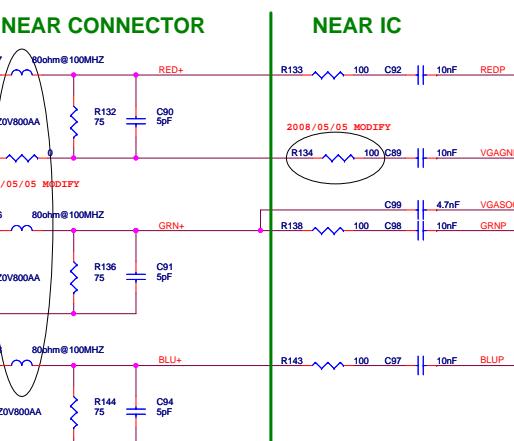
VGAHSYNC# <> VGAHSYNC# 3
VGAVSYNC# <> VGAVSYNC# 3

5V_M 5V_M 2,3,6,12,13,14

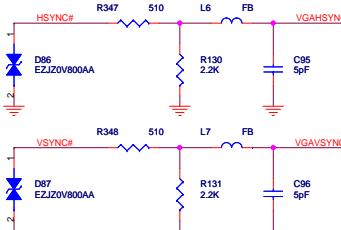
VGASCL_IN <> VGASCL_IN 3
VGASDA_IN <> VGASDA_IN 3
VGA_L <> VGA_L 12
VGA_R <> VGA_R 12
OSDA0 <> OSDA0 3,6,11,14
OSCL0 <> OSCL0 3,6,11,14

VGA_PLUGPWR
VGA_PLUGPWR
R147 NC/4.7K
R146 NC/4.7K
D72 EZJZ0V800AA
D73 EZJZ0V800AA

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VGA_PLUGPWR
VGA_PLUGPWR

R147 NC/4.7K
R146 NC/4.7K
D72 EZJZ0V800AA
D73 EZJZ0V800AA

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CVBS/ S-Video / VGA

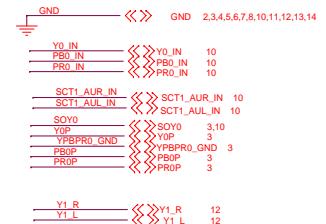
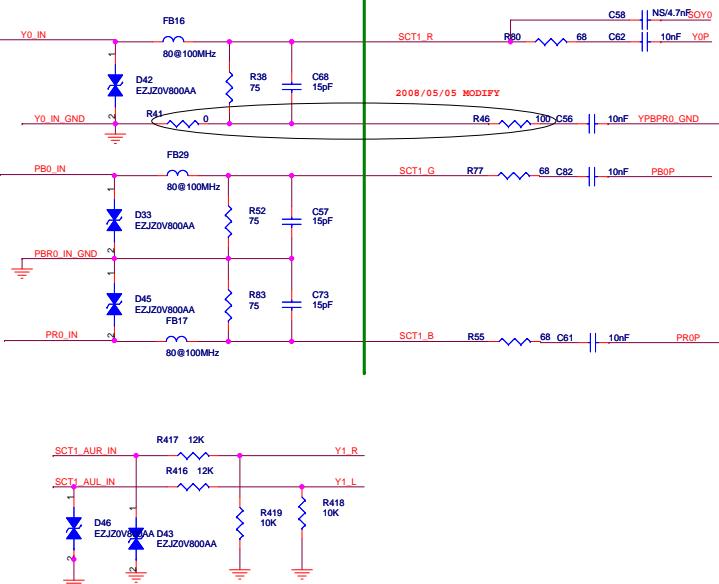
Size Document Number
C HISENSE MT8222 EU Drawn: Jiu.Ni Rev 1

Date: 2008/1/25 Sheet 8 of 14



NEAR CONNECTOR

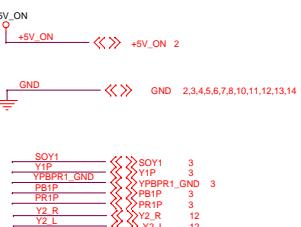
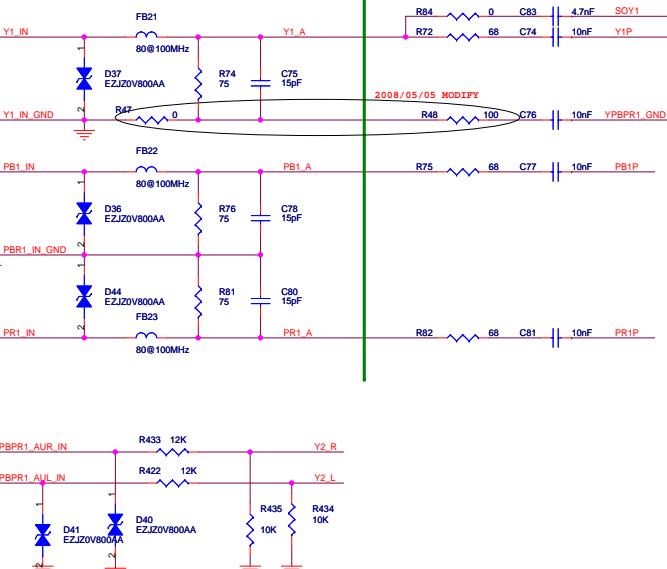
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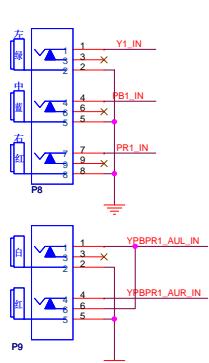
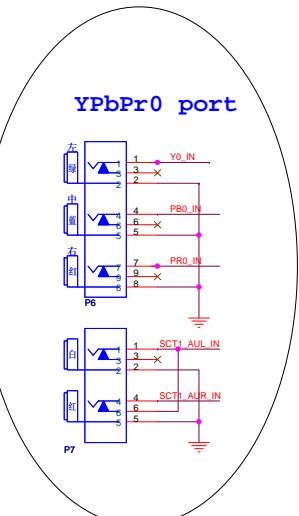
YPbPr1 port

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NEAR IC



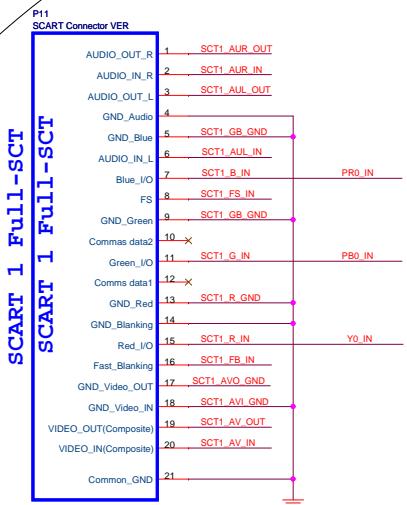
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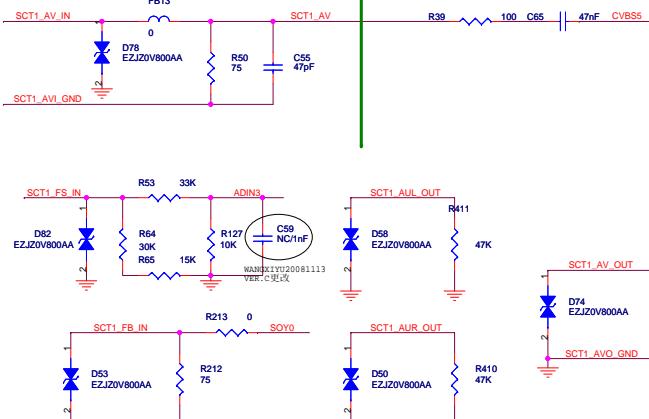
MediaTek (ShenZhen) Inc.

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Size: C	Document Number: HISENSE_MT8222_EU	Drawn: Jiu.Ni	Rev: 1
Date: 2008/1/25		Sheet 9	of 14

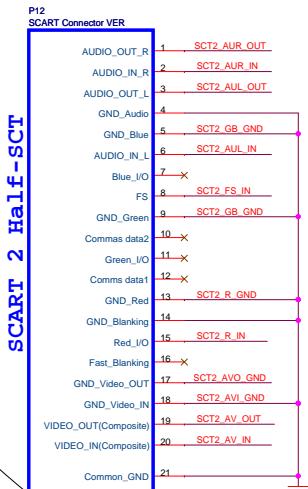
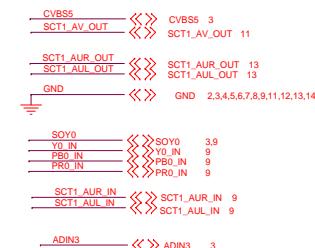


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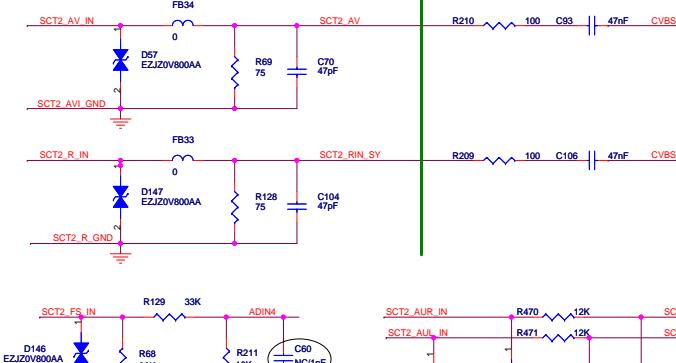
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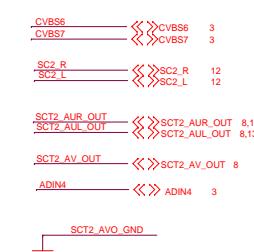
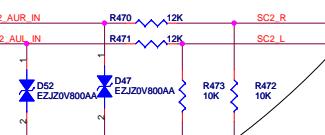
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SCART1/2			
Size	Document Number	Drawn:	Rev
c	HISENSE MT8222 EU	Jiu.Ni	1
Date:		Sheet 10 of 14	

