Service Manual

LED Television

Model No. TH-43FS432M

7N07T

Chassis

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are marked by ⚠ in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

Panasonic®

1. CAUTION

CAUTION:
Use of controls, adjustments or procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lighting flash with arrowhead symbol, with 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 to the person.

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 appliance.

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

IMPORTANT SAFETY INSTRUCTIONS

CAUTION:

Read all of these instructions. Save these instructions for later use. Follow all Warnings and Instructions marked on the audio equipment.

1. Read Instructions- All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions- The safety and operating instructions should be retained for future reference.
3. Heed Warnings- All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions- All operating and use instructions should be followed.

FOR YOUR PERSONAL SAFETY

1. When the power cord or plug is damaged or frayed, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
2. Do not overload wall outlets and extension cords as this can result in fire or electric shock.
3. Do not allow anything to rest on or roll over the power cord, and do not place the TV where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
4. Do not attempt to service this television set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
5. Never push objects of any kind into this television set through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the television set.
6. If the television set has been dropped or the cabinet has been damaged, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
7. If liquid has been spilled into the television set, unplug this television set from the wall outlet and refer servicing to qualified service personnel.
8. Do not subject your television set to impact of any kind. Be particularly careful not to damage the picture tube surface.
9. Unplug this television set from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

10.1. Do not place this television set on an unstable cart, stand, or table. The television set may fall, causing serious injury to a child or an adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the television set. Wall or shelf mounting should follow the manufacturer s instructions, and should use a mounting kit approved by the manufacturer.

10.2. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

PROTECTION AND LOCATION OF YOUR SET

11. • Do not use this television set near water ... for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
    • Never expose the set to rain or water. If the set has been exposed to rain or water, unplug the set from the wall outlet and refer servicing to qualified service personnel.

12. Choose a place where light (artificial or sunlight) does not shine directly on the screen.

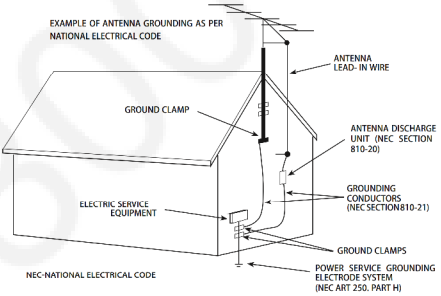
13. Avoid dusty places, since piling up of dust inside TV chassis may cause failure of the set when high humidity persists.

14. The set has slots, or openings in the cabinet for ventilation purposes, to provide reliable operation of the receiver, to protect it from overheating. These openings must not be blocked or covered.
    • Never cover the slots or openings with cloth or other material.
    • Never block the bottom ventilation slots of the set by placing it on a bed, sofa, rug, etc.
    • Never place the set near or over a radiator or heat register.
    • Never place the set in a "built-in" enclosure, unless proper ventilation is provided.

PROTECTION AND LOCATION OF YOUR SET

15.1. If an outside antenna is connected to the television set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges, Section 810 of the National Electrical Code, NFPA No. 70-1975, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrode, and requirements for the grounding electrode.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE INSTRUCTIONS



15.2. Note to CATV system installer : (Only for the television set with CATV reception)

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

16. An outside antenna system should not be located in the vicinity of overhead power lines or other electric lights or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. For added protection for this television set during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage due to lightning and power-line surges.

OPERATION OF YOUR SET

18. This television set should be operated only from the type of power source indicated on the marking label.If you are not sure of the type of power supply at your home, consult your television dealer or local power company. For television sets designed to operate from battery power, refer to the operating instructions.
19. If the television set does not operate normally by following the operating instructions, unplug this television set from the wall outlet and refer servicing to qualified service personnel. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the television set to normal operation.
20. When going on a holiday : If your television set is to remain unused for a period of time, for instance, when you go on a holiday, turn the television set" off " and unplug the television set from the wall outlet.

IF THE SET DOES NOT OPERATE PROPERLY

21. If you are unable to restore normal operation by following the detailed procedurein your operating instructions, do not attempt any further adjustment. Unplug the set and call your dealer or service technician.
22. Whenever the television set is damaged or fails, or a distinct change in performance indicates a need for service, unplug the set and have it checked by a professional service technician.
23. It is normal for some TV sets to make occasional snapping or popping sounds, particularly when being turned on or off. If the snapping or popping is continuous or frequent, unplug the set and consult your dealer or service technician.

FOR SERVICE AND MODIFICATION

24. Do not use attachments not recommended by the television set manufacturer as they may cause hazards.
25. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
26. Upon completion of any service or repairs to the television set, ask the service technician to perform routine safety checks to determine that the television is in safe operating condition.

CONTENT

Technical Specification

1. Application Area:

This product standard is use for LED 7N07T 43PE2A chassis.

2. Specification:

All the standard are measured under following conditions without other specification.

2.1 Ambient Temperature: 20+/-5℃

2.2 Relative Humidity: 65+-10％

2.3 Power Supply Voltage: Standard Input Voltage(100～240V AC 50/60HZ)

2.4 Adjust after 20 minutes warm-up.

3. Test and check method:

3.1 Capability: According to nation test standard

3.2 Safety: IEC60065 standard

3.3 EMC: Q/SCWB 2047-2013 standard

4. Safety and Regulation

NO.	Item	Min	Typ	Max	Unit	Remark
1.	Force Stability-Incline plane Tip Test		10		deg	
2.	Force Stability-Level Tip Test		100		N	
3.	Isolation Gap AC-AC/AC-DC	3			mm	
4.	Isolation Gap	6			mm	
5.	Power Consumption		51.4		W	
					W	
					W	
					W	
					W	
6.	Power consumption Standby		0.12	0.5	W	
7.	Dielectric Voltage	3			kV	
8.	Isolation Resistance	4			MΩ	
9.	Leakage Current		5		mApp	
10.	Power cord captivity		40		N	
11.	Flammability—Back Cover		PASS			
12.	Sharp edge		PASS			
13.	UL Compliance		NO			
14.	FCC Compliance		NO			
15.	CDRH Radiation Compliance		NO			
16.	CSA Compliance		NO			
17.	CEB Compliance		NO			
18.	CE Compliance					Base on different orders

19.	**CB Compliance**		**YES**			

5. Video

NO.	Item	Min	Typ	Max	Unit	Remark
1.	**Linearity Distortion, Vertical**		**1**		%	
2.	**Linearity Distortion, Horizontal**		**1**		%	
3.	**Trapezoidal Distortion, Vertical**		**1**		%	
4.	**Trapezoidal Distortion, Horizontal**		**1**		%	
5.	**Over scan, Vertical**	**95**		**97**	%	
6.	**Over scan, Horizontal**	**95**		**97**	%	
7.	**Brightness Maximum**		**250**		Nit(s)	
8.	**Video Noise Limited Sensitivity(@S/N=30dB) VHF**			**51**	dBuV	
9.	**Video Noise Limited Sensitivity(@S/N=30dB) UHF**			**54**	dBuV	
10.	**Selectivity -1.5M**	**35**			dB	
11.	**Selectivity +8M**	**40**			dB	
12.	**Tuning Range**	**-0.7**			MHz	
13.	**Resolution Horizontal**		**1920**		Lines	
14.	**Resolution Vertical**		**1080**		Lines	

6. Chroma

NO.	Item	Min	Typ	Max	Unit	Remark
1.	**White Balance, X axis**					
2.	**White Balance, Y axis**					
3.	**White Balance, Color Temperature**	**6500**	**9800**	**12.5k**	**kdeg**	**12500(266,276)** **9800(280,290)** **6500(313,329)**
4.	**Color Sensitivity**		**30**		**dB**	
5.	**Color Burst Lock-in Range**	**+/-300**			**Hz**	
6.	**Color Killer Sensitivity**		**30**		**dBuV**	

7. Audio

NO.	Item	Min	Typ	Max	Unit	Remark
1.	**Audio Noise Limited Sensitivity, VHF-L**		**25**		**dBuV**	
2.	**Audio Noise Limited Sensitivity,VHF-H**		**25**		**dBuV**	
3.	**Audio Noise Limited Sensitivity, UHF**		**28**		**dBuV**	
4.	**Buzz(S/N Ratio)**		**40**		**dB**	
5.	**Distortion**		**3**		%	

6.	Audio ouput,L/R,at 10％ THD		6		W	
7.	Audio ouput,Center		6		W	
8.	Stereo Separation		21		dB	
9.	Speaker Impedance		6		ohm	
10.	Speaker Power rating		10		W	

8. Power

NO.	Item	Min	Typ	Max	Unit	Remark
1.	DC Voltage, Audio		12		V	
2.	DC Voltage, Tuner		3.3		V	

9. External Interface

NO.	Item	Min	Typ	Max	Unit	Remark
1.	Video Input Level		1		Vpp	75 ohm
2.	Video Input Frequency Response	4.5			MHz	
3.	Video Input S/N		40		dB	
4.	Audio Input Level		0.5		Vrms	
5.	Audio Input Frequency Response			20	kHz	
6.	Audio Input S/N		40		dB	
7.	Audio Input Distortion		3		%	
8.	Audio Input Dynamic Range		2		V	
9.	Video output Level		1		Vpp	
10.	Video output Frequency Response		4.2		MHz	
11.	Video output S/N		50		dB	
12.	Audio output Level		0.5		Vrms	
13.	Audio output Frequency Response	80		15K	Hz	
14.	Audio output S/N		40		dB	
15.	Audio output Distortion		6		%	
16.	Video Input Level,R/G/B		0.7		VPP	
17.	Video Input Level,Component(Y,Pb,Pr)		0.7		VPP	
18.	RGB Input Resolution,Vertical			768	pixel	
19.	RGB Input Resolution,Horizontal			1366	pixel	
20.	RGB Input Horizontal Frequency			68	kHz	
21.	RGB Input Frame Rate			60	Hz	

10. The Others

NO.	Item	Min	Typ	Max	Unit	Remark
1.	Search sensitivity		40		dBuV	
2.	Clock,real time gain or loss(sec per day)		NO		sec	
3.	Software Functionality Test		YES			
4.	REMOCON Working		8		m	

	sensitivity,Straight					
5.	REMOCON Working sensitivity,T/B/L/R		6		m	
6.	Close caption sensitivity		46		dBuV	
7.	Teletext sensitivity		46		dBm	
8.	Resonance of unit(sweep freq:50~1000)		NO			

11. Customer Menu Setup(as shipped condition)

NO.	Item	Specification	Remark
1.	PSM	Standard	
2.	SSM	Standard	
3.	Volume	30	
4.	Mute	off	
5.	Input Mode	RF-Air	
6.	Customer menu language	English	Based on different order
7.	AVL	off	
8.	Sleep Timer	off	
9.	Auto sleep	off	
10.	Surround	off	
11.	Noise Reduction	Middle	

12. Reliability

NO.	Item	Min	Typ	Max	Unit	Remark
1.	ESD		4		kV	IEC-1000-4-2
2.	EFT/Burst				kV	IEC-1000-4-4
3.	Surge Immunity				kV	IEC-1000-4-5
4.	Voltage Dip Test,10ms				%	IEC-1000-4-11
5.	Voltage Dip Test,100ms				%	IEC-1000-4-11
6.	Operation Temperature				deg	
7.	Operation Humidity				%	
8.	Storage Temperature				deg	
9.	MTBF(confidence Level:90%)				hour	

DTV-Productions Specification

1	Outlook		
	Please refer to the		

	picture		
2	**Brief Information**		
2.1		Product Name	43PE2A
2.2		Chassis Name	7N07T
2.3		Key functions	SMART TV
2.4		Target Market	INDIA
2.5		Product Category	TV
2.6		Product Positioning	Low
2.7		Product size	43"
3	**Panel Specification**		
3.1	**Model Number**		
3.1.1		Panel Manufacturer	Skyworth
3.1.2		Model Number	7626-T4300L-T211
3.2	**Mechanical**		
3.2.1		Panel Size	43"
3.2.2		Dimension	
3.2.3		Active Area (mm) : H x V	
3.2.4		Pixel Format (H × V)	1920*RGB*1080
3.2.5		Back light Type	LED
3.2.6		Diagonal Screen Size	42.5''
3.2.7		Pixel Pitch (mm)	0.1864(H)*0.5593(V)
3.3	**Electronic Parameter**		
3.3.1		Brightness (cd/m^2)	250nits
3.3.2		Contrast Ratio	1200:1
3.3.3		Viewing Angle	Viewing angle free (R/L 178° , U/D 178°)(Not 3D mode)
3.3.4		Response Time (ms)	8ms
3.3.5		Back light Time (Hours)	30000
3.3.6		120Hz(100Hz)/240Hz(200Hz)	No
3.3.7		3D No/PR/SG	No
4	**Signal Receiving System**		

4.1	**ATV Receiving System**		
4.1.1		PAL BG/I/DK/ + NTSC-M	YES
4..1.2		PAL/SECAM BG/DK/I + SECAM L/L"	PAL/SECAM BG/DK/I
4.1.3		PAL M/N + NTSC-M	No
4.2	**DTV Receiving System**		
4.2.1		ISDB-T/ISDB-S/SBTVD-T	No
4.2.2		ATSC	No
4.2.3		DTMB	No
4.2.4		DVB-T	YES
4.2.5		DVB-T2	YES
4.2.6		DVB-C	YES
4.2.7		DVB-S	No
4.2.8		DVB-S2	No
4.2.9		DVB-CI(*Not a system, but important to indicate the type of DTV)	No
4.2.10		DVB-CI+(*Not a system, but important to indicate the type of DTV)	No
4.3	**Antenna input**		
4.3.1		Antenna Input port: 1 (1 for analogue)	No
4.3.2		Antenna Input port: 1 (1 for both analogue and digital)	1 for DVB-T/T2/C/Analogue
4.3.3		Antenna Input port: 2 (1 air + 1 Cable)	No
		Antenna input port 2 (1 Sat)	No
4.3.4		Type of Antenna Input Port	IEC Female
4.3.5		Receiving Frequency range (ATV)	47.25MHz～865.25MHz
4.3.6		Receiving Frequency range (DTV)	DVB-T: 174 MHz ~ 230 MHz, 470 MHz ~ 860 MHz DVB-C: 50 MHz ~ 858 MHz

4.4	**External Signal Receiving System**		
4.4.1	Composite Input	PAL 50Hz/60Hz	Yes
4.4.2		SECAM	Yes
4.4.3		NTSC 3.58	Yes
4.4.4		NTSC4.43	Yes
4.4.5	Component Input	480i /480p/720p/1080i (60Hz)	No
4.4.6		576i /576p/720p/1080i (50Hz)	No
4.4.7		1080P 24Hz/25Hz/30Hz/50Hz/60Hz	No
4.4.8	PC Input	VGA (640 x 480)	Yes
4.4.9		S-VGA (800 x 600)	Yes
4.4.10		XGA (1024 x 768)	Yes
4.4.11		W-XGA (1280 x 768)	Yes
4.4.12		W-XGA（1360×768）	Yes
4.4.13		S-XGA (1280 x 1024)	Yes
4.4.14	HDMI Input	480i /480p/720p/1080i/2160i (60Hz) (Video Format)	Yes
4.4.15		576i /576p/720p/1080i (50Hz) (Video Format)	Yes
4.4.16		1080P 24Hz/25Hz/30Hz/50Hz/60Hz (Video Format)	Yes
4.4.17		VGA (640 x 480) (PC Format)	Yes
4.4.18		S-VGA (800 x 600) (PC Format)	Yes
4.4.19		XGA (1024 x 768) (PC Format)	Yes
4.4.20		W-XGA (1280 x 768) (PC Format)	Yes
4.4.21		W-XGA（1360×768）(PC Format)	Yes
4.4.22		S-XGA (1280 x 1024) (PC Format)	Yes

4.4.23	USB	Media player formats	Refer to sheet "Mediaplayer Formats"
5	**Features**		
5.1	**Picture**		
5.1.1		Picture Mode	Standard/Soft/Vivid/User
5.1.2		Picture Size	16:9/4:3/Zoom1/Zoom2/Just Scan/Panorama/Auto
5.1.3		Picture Freeze	Yes
5.1.4		Back light Adjust	No
5.1.5		Auto Format	Yes
5.1.6		3:2 Pull Down	No
5.1.7		4:3 Stretch	No
5.1.8		Comb filter	3D
5.1.9		PIP(Single tuner)	No
5.1.10		Noise Reduction	Yes
5.1.11		MPEG Reduction	Yes
5.1.12		Color temperature	Natural/Warm/Cool
5.2	**Sound**		
5.2.1		Sound Mode	Standard/Movie/Music/Sports/User
5.2.2		For personal mode:Treble/Bass/Balance	Yes
5.2.3		Surround Sound	Yes
5.2.4		Equalizer	Yes
5.2.5		Audio Output Power	2x8W
5.2.6		NICAM	Yes
5.2.7		A2	Yes
5.2.8		BTSC(MTS)	No
5.3	**Teletext**		
5.3.1		FLOF/TOP	Yes/Optional
5.3.2		Memory Page	1000
5.3.3		Character Language	Pan-Euro/Cyillic/Arabic/Farsi
5.3.4		Teletext Level	1.0/1.5
5.4	**Program Management**		
5.4.1		V-Chip	No
5.4.2		Parent Control(Child Lock)	Yes
5.4.3		Closed Caption	No

5.4.4		Subtitle	No
5.4.5		EPG	No
5.4.6		Channel list	No
5.4.7		Favorite Channel List	No
5.4.8		Channel Editor	No
5.4.9		Sleep Timer	Yes
5.4.10		On/Off timer	Yes
5.4.11		Channel Swap timer	No
5.4.12		Blue Screen	Yes
5.5	**AC Input**		
5.5.1		AC Input Range	100-240V AC (-10%,+10%)
5.5.2		AC Plug Type	VDE
5.5.3		AC Cable Length	1.5m
5.5.4		Power Consumption	TBD
5.5.5		Standby Power Consumption	<0.5w
5.6	**HDMI**		
5.6.1		CEC	Yes
5.6.2		ARC	No
5.6.3		3D	No
5.6.4		MHL	No
5.7	**Software Update**		
5.7.1		By USB	Yes
5.7.2		By Internet	Yes
5.7.3		Internet Auto search	No
5.7.4		By Over-Air	No
5.7.5		By other Service Port	No
5.8	**PVR**		
5.8.1		By External USB or HDD	Yes
5.8.2		Built in HDD	No
5.8.3		Time Shift	Yes
5.9	**OSD Language**		
5.9.1		OSD Language	English/Portuguese/Arabic/Farsi/Indonesian/French
5.10	**USB File System**		

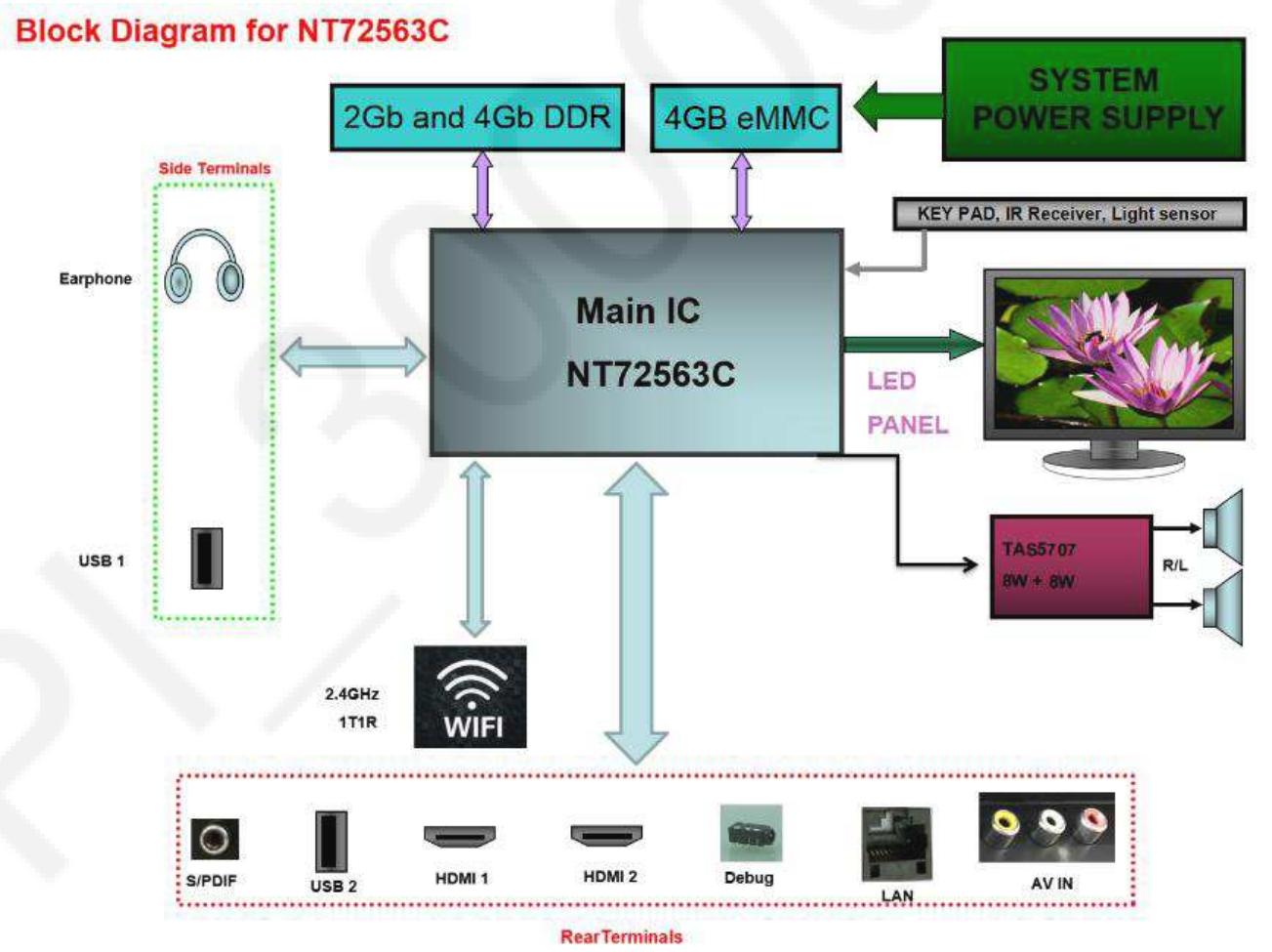
5.10.1		FAT16	Yes
5.10.2		FAT32	Yes
5.10.3		NTFS	Yes(Only read)
5.11	**Middle Ware**		
5.11.1		MHEG5	No
5.11.2		Ginga	No
5.11.3		MHP	No
5.11.4		HbbTV	No
5.12	**Wifi**		
5.12.1		Wifi Dongle	No
5.12.2		Wifl Built in	Yes
6	**Terminals Configuration**		
6.1	**Terminal Direction (Side and Bottom & Side and Rear)**		Side and Rear
6.2	**Input**		
6.2.1		Tuner	1(Rear)
6.2.2		Composite	1(Rear)
6.2.3		S-Video	No
6.2.4		Full Scart	No
6.2.5		Half Scart	No
6.2.6		Component	No
6.2.7		PC input with 3.5mm mini jack audio input	N0
6.2.8		HDMI	2 (Rear)
6.2.9		USB	2 (1 Side, 1 Rear)
6.2.10		LAN	1 (Rear)
6.2.11		CI Slot	No
6.2.12		CA Slot	No
6.3	**Output**		
6.3.1		Video Output	No
6.3.2		Audio Output (Fixed & Variable)	No

6.3.3		Digital Audio Output (Coaxial & Optical)	1 (Coaxial, Rear)
6.3.4		Earphone	1 (Side)
6.4	**Diagram of Terminal Configuration**		
7	**Mechanical Spec**		
7.1	**Cabinet**		
7.1.1	Cabinet color	For front back stand	TBD
7.1.2	Operation Keys / Touch sensor		5 in 1, Keys outside
7.1.3	AC Power Switch	Mechanical power switch	No
7.1.4	LED Indicator	Power on (Green)	No
7.1.5		Power on / Standby (Green / Red)	Yes (Green / Red)
7.1.6		Power on / Standby / Recording(Green / Red / Orange)	No
7.1.7		Program Timer / Recording (Green / Red)	No
7.1.8		On Timer or Program Timer(Green)	No
		Red / Green / Blue, independent PWM controlled	No
7.1.9	Logo Style	Silk Printing / SUS Badge (inlet type)	SUS Badge
7.1.10	Stand	Tilt / Swivel	Tilt
7.2	**Dimension & Stuffing**		
7.2.1		Size (with stand)(mm)	TBD
7.2.2		Size (without stand) (mm)	TBD
7.2.3		Package Size (with stand)(mm)	TBD
7.2.4		Net Weight(Kg)	TBD
7.2.5		Gross Weight	TBD

7.2.6		Loading quantity (20GP/40GP/40GP) with pallet	TBD
7.2.7		Loading quantity (20GP/40GP/40GP) without pallet	TBD
7.2.8		Stand build in Packing Box (together or separately)	TBD
8	**Accessories**		
8.1	**Remote Controller**		
8.1.1		Type No.	PANASONIC
8.1.2		Battery	Option
8.2	**Instruction Manual**		
8.2.1		Paper size	TBD
8.2.2		Printing Color	TBD
8.2.3		Languages (Refer to Sales Country Sheet)	TBD
8.2.4		Total Pages	TBD
8.2.5		Instruction manual CD	TBD
8.2	**Others**		
8.2.1		3D Glasses	No
8.2.2		Camera	No
8.2.3		etc	No
9	**Requested Certification**		
9.1	CB		Yes
9.2	UL		No
9.3	EMC		Yes
9.4	FCC		No
9.5	HDMI		Yes
9.6	USB		No
9.7	CI+		No
9.8	Dolby		Yes
9.9	DOLBY +		Yes
9.10	Dvix Hometheatre		No

9.11	DviX HD		No
9.12	DviX+HD		No
9.13	MHL		Optional
9.14	DLNA		Optional
9.15	CTS		No
9.16	Energy Star		No
9.17	CE		No

Block Diagram



List of key parts

name	position	model	Spec.	P/N
IR RECEVIER	MOK1	SDR138	SMD MODULE 38KHZ	5300-147438-0S00
SPEAKER		SL411-08E	SPEAKER 6 OHM 8W MAX	53FJ-3932E2-0020
CRYSTAL	X2T1	49S-16.000-20-30/A	16MHz	4900-127053-R000
IC	U2	NT72563BG-AC NOVATEK	SMD IC	475V-N72561-4240
	U9	H5TQ2G63GFR-RDC HYNIX	SMD IC	4711-H5T2G6-0960
	U7	H5TQ4G63CFR-RDC HYNIX	SMD IC	4711-H5T4G7-0960
	UOM1	MX25L1606EM2I-12G 16MB SPI FLASH	SMD IC	47F2-G25161-0080
	UOM2	THGBMBG5D1KBAIL TOSHIBA	SMD IC	4701-T5D4G1-1530
	UOA3	TAS5707PHPR TEXAS	SMD IC	4722-T57070-0480
	UOA1	TPA6138A2PWR TI	SMD IC	4722-T61380-0140
	UOP4	MP1495DJ-LF-Z MPS	SMD IC	476A-M14950-0080
	UOP2	MP1470GJ-Z MPS	SMD IC	476A-M14700-0060
	U2P1	ME4953 MATSUKI	SMD IC	47D9-M49530-0080
	UOP7	MP1495DJ-LF-Z MPS	SMD IC	476A-M14950-0080
	U2P2	AS1117L/TR-HF A1	SMD IC	47B6-A11174-0300
	U1P1	AS1117L-3.3/TR-HF A1	SMD IC	47B6-A11170-03
	UOJ2	AZC399-04S.R7G AMAZING	SMD IC	47FY-A39904-0060
MOS	UOL1	ME9435A MATSUKI	SMD IC	47D9-M94350-0080

IC Block Diagram

1. NT72563BG-AC

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
V_{DD}	1.1V power supply	1.0925	1.15	1.2075	V	
$V_{1.5V}$	1.5V power supply (DDR3)	1.425	1.5	1.575	V	
$V_{1.8V}$	1.8V power supply (eMMC)	1.7	1.8	1.9	V	
V_{DDIO}	3.3V power supply	2.97	3.3	3.63	V	
V_{IN3}	3.3V I/O with 5V Tolerance	0	3.3	5.25	V	
	Input voltage of 3.3V I/O	0	3.3	3.63	V	

Table 6-2, DC Characteristics of Power pad

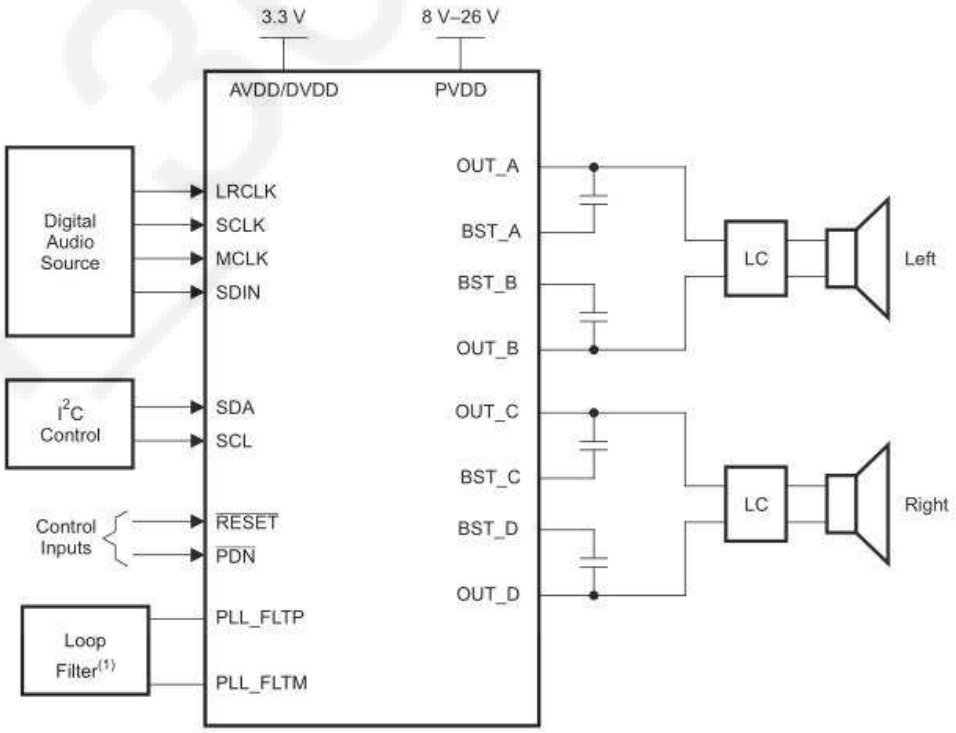
Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
VDDIO	IO power supply	2.97	3.3	3.63	V	
V_{il}	Input Low Voltage	-0.3	-	0.8	V	
V_{ih}	Input High Voltage	2.0	-	3.6	V	
V_{ol}	Output Low Voltage	-	-	0.4	V	
V_{oh}	Output High Voltage	2.4	-	-	V	
I_{in}	Input Leakage Current	-10		+10	uA	V_{IN}=V_{DD}/GND
I_{hiZ}	Output tri-state Leakage Current	-10		+10	uA	output is tri-state
R_{PU}	Internal Pull-up Resistor	41	60	92	KΩ	V_{IN}=V_{DD}/GND
R_{PD}	Internal Pull-Down Resistor	43	64	104	KΩ	V_{IN}=V_{DD}/GND
I_{ol}	Low Level Output Current @V_{ol}(max)	8.7	13.5	18.2	mA	04mA pad
		13.1	20.2	27.4	mA	08mA pad
I_{oh}	High Level Output Current @V_{oh}(min)	13.8	27.3	46.1	mA	04mA pad
		19.3	38.2	64.5	mA	08mA pad

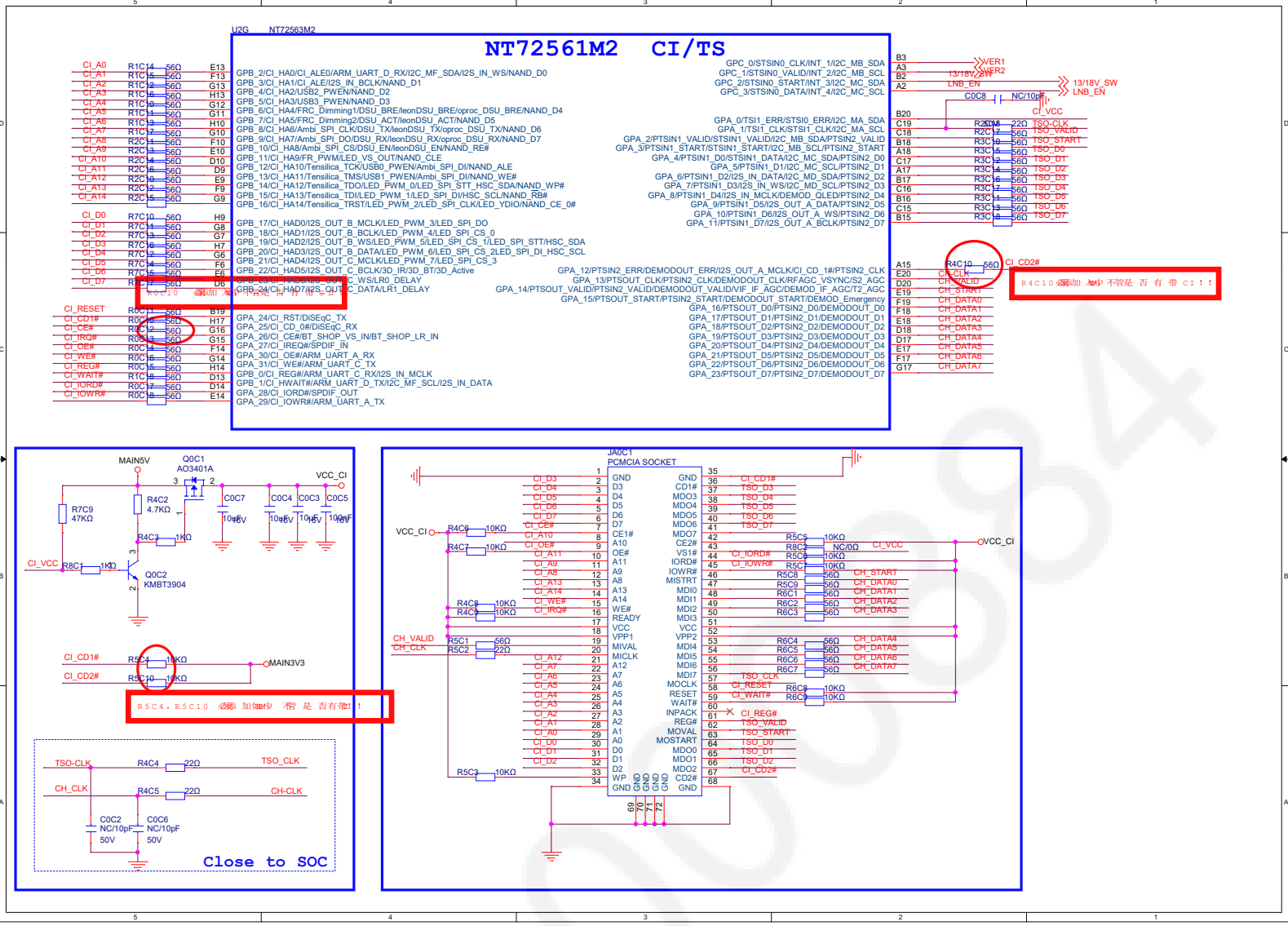
Table 6-3, DC Characteristics of 3.3V I/O

Symbol	Parameter	Min.	Typ.	Max.	Unit	Conditions
VDDIO	IO power supply	2.97	3.3	3.63	V	
V_{il}	Input Low Voltage	-0.3	-	0.8	V	
V_{ih}	Input High Voltage	2.0	-	5.25	V	
V_{ol}	Output Low Voltage	-	-	0.4	V	
V_{oh}	Output High Voltage	2.4	-	-	V	
I_{in}	Input Leakage Current	-10		+10	uA	V_{IN}=V_{DD}/GND
I_{hiZ}	Output tri-state Leakage Current	-10		+10	uA	output is tri-state
R_{PU}	Internal Pull-up Resistor	29	41	61	KΩ	V_{IN}=V_{DD}/GND
R_{PD}	Internal Pull-Down Resistor	31	45	74	KΩ	V_{IN}=V_{DD}/GND
I_{ol}	Low Level Output Current @V_{ol}(max)	4.4	7.0	9.5	mA	04mA
		8.9	14.0	19.1	mA	08mA
I_{oh}	High Level Output Current @V_{oh}(min)	7.8	15.5	26.1	mA	04mA
		15.7	31.0	52.3	mA	08mA

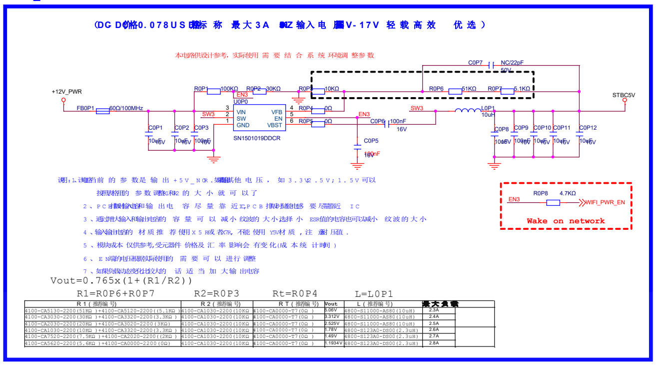
Table 6-4, DC Characteristics of 5V Tolerance I/O

3.TAS5707PHPR




U2G NT72563M2
NT72561M2 CI/TS
CI_A0 R1C14 56Ω E13
CI_A1 R1C15 56Ω F13
CI_A2 R1C12 56Ω G13
CI_A3 R1C16 56Ω H13
CI_A4 R1C10 56Ω G12
CI_A5 R1C11 56Ω G11
CI_A6 R1C13 56Ω H10
CI_A7 R1C17 56Ω G10
CI_A8 R2C11 56Ω F10
CI_A9 R2C13 56Ω E10
CI_A10 R2C14 56Ω D10
CI_A11 R2C16 56Ω D9
CI_A12 R2C18 56Ω E9
CI_A13 R2C12 56Ω F9
CI_A14 R2C15 56Ω G9
CI_D0 R7C10 56Ω H9
CI_D1 R7C11 56Ω G8
CI_D2 R7C13 56Ω G7
CI_D3 R7C16 56Ω H7
CI_D4 R7C12 56Ω G6
CI_D5 R7C14 56Ω F6
CI_D6 R7C15 56Ω E6
CI_D7 R7C17 56Ω D6
CI_RESET R0C11 56Ω B19
CI_CD1# R0C16 56Ω H17
CI_CE# R0C12 56Ω G16
CI_IRQ# R0C13 56Ω G15
CI_OE# R0C14 56Ω F14
CI_WE# R0C16 56Ω G14
CI_REG# R0C15 56Ω H14
CI_WAIT# R1C18 56Ω D13
CI_IORD# R0C17 56Ω D14
CI_IOWR# R0C18 56Ω E14
GPB_2/CI_HA0/CI_ALE0/ARM_UART_D_RX/I2C_MF_SDA/I2S_IN_WS/NAND_D0
GPB_3/CI_HA1/CI_ALE/I2S_IN_BCLK/NAND_D1
GPB_4/CI_HA2/USB2_PWEN/NAND_D2
GPB_5/CI_HA3/USB3_PWEN/NAND_D3
GPB_6/CI_HA4/FRC_Dimming1/DSU_BRE/leonDSU_BRE/oproc_DSU_BRE/NAND_D4
GPB_7/CI_HA5/FRC_Dimming2/DSU_ACT/leonDSU_ACT/NAND_D5
GPB_8/CI_HA6/Ambi_SPI_CLK/DSU_TX/leonDSU_TX/oproc_DSU_TX/NAND_D6
GPB_9/CI_HA7/Ambi_SPI_DO/DSU_RX/leonDSU_RX/oproc_DSU_RX/NAND_D7
GPB_10/CI_HA8/Ambi_SPI_CS/DSU_EN/leonDSU_EN/NAND_RE#
GPB_11/CI_HA9/FR_PWM/LED_VS_OUT/NAND_CLE
GPB_12/CI_HA10/Tensilica_TCK/USB0_PWEN/Ambi_SPI_DI/NAND_ALE
GPB_13/CI_HA11/Tensilica_TMS/USB1_PWEN/Ambi_SPI_DI/NAND_WE#
GPB_14/CI_HA12/Tensilica_TDO/LED_PWM_0/LED_SPI_STT_HSC_SDA/NAND_WP#
GPB_15/CI_HA13/Tensilica_TDI/LED_PWM_1/LED_SPI_DI/HSC_SCL/NAND_RB#
GPB_16/CI_HA14/Tensilica_TRST/LED_PWM_2/LED_SPI_CLK/LED_YDIO/NAND_CE_0#
GPB_17/CI_HAD0/I2S_OUT_B_MCLK/LED_PWM_3/LED_SPI_DO
GPB_18/CI_HAD1/I2S_OUT_B_BCLK/LED_PWM_4/LED_SPI_CS_0
GPB_19/CI_HAD2/I2S_OUT_B_WS/LED_PWM_5/LED_SPI_CS_1/LED_SPI_STT/HSC_SDA
GPB_20/CI_HAD3/I2S_OUT_B_DATA/LED_PWM_6/LED_SPI_CS_2LED_SPI_DI_HSC_SCL
GPB_21/CI_HAD4/I2S_OUT_C_MCLK/LED_PWM_7/LED_SPI_CS_3
GPB_22/CI_HAD5/I2S_OUT_C_BCLK/3D_IR/3D_BT/3D_Active
GPB_23/CI_HAD6/I2S_OUT_C_WS/LR0_DELAY
GPB_24/CI_HAD7/I2S_OUT_C_DATA/LR1_DELAY
GPA_24/CI_RST/DiSEqC_TX
GPA_25/CI_CD_0#/DiSEqC_RX
GPA_26/CI_CE#/BT_SHOP_VS_IN/BT_SHOP_LR_IN
GPA_27/CI_IREQ#/SPDIF_IN
GPA_30/CI_OE#/ARM_UART_A_RX
GPA_31/CI_WE#/ARM_UART_C_TX
GPB_0/CI_REG#/ARM_UART_C_RX/I2S_IN_MCLK
GPB_1/CI_HWAIT#/ARM_UART_D_TX/I2C_MF_SCL/I2S_IN_DATA
GPA_28/CI_IORD#/SPDIF_OUT
GPA_29/CI_IOWR#/ARM_UART_A_TX
GPC_0/STSIN0_CLK/INT_1/I2C_MB_SDA
GPC_1/STSIN0_VALID/INT_2/I2C_MB_SCL
GPC_2/STSIN0_START/INT_3/I2C_MC_SDA
GPC_3/STSIN0_DATA/INT_4/I2C_MC_SCL
GPA_0/TSI1_ERR/STSI0_ERR/I2C_MA_SDA
GPA_1/TSI1_CLK/STSI1_CLK/I2C_MA_SCL
GPA_2/PTSIN1_VALID/STSIN1_VALID/I2C_MB_SDA/PTSIN2_VALID
GPA_3/PTSIN1_START/STSIN1_START/I2C_MB_SCL/PTSIN2_START
GPA_4/PTSIN1_D0/STSIN1_DATA/I2C_MC_SDA/PTSIN2_D0
GPA_5/PTSIN1_D1/I2C_MC_SCL/PTSIN2_D1
GPA_6/PTSIN1_D2/I2S_IN_DATA/I2C_MD_SDA/PTSIN2_D2
GPA_7/PTSIN1_D3/I2S_IN_WS/I2C_MD_SCL/PTSIN2_D3
GPA_8/PTSIN1_D4/I2S_IN_MCLK/DEMOD_QLED/PTSIN2_D4
GPA_9/PTSIN1_D5/I2S_OUT_A_DATA/PTSIN2_D5
GPA_10/PTSIN1_D6/I2S_OUT_A_WS/PTSIN2_D6
GPA_11/PTSIN1_D7/I2S_OUT_A_BCLK/PTSIN2_D7
GPA_12/PTSIN2_ERR/DEMODOUT_ERR/I2S_OUT_A_MCLK/CI_CD_1#/PTSIN2_CLK
GPA_13/PTSOUT_CLK/PTSIN2_CLK/DEMODOUT_CLK/RFAGC_VSYNC/S2_AGC
GPA_14/PTSOUT_VALID/PTSIN2_VALID/DEMODOUT_VALID/VIF_IF_AGC/DEMOD_IF_AGC/T2_AGC
GPA_15/PTSOUT_START/PTSIN2_START/DEMODOUT_START/DEMOD_Emergency
GPA_16/PTSOUT_D0/PTSIN2_D0/DEMODOUT_D0
GPA_17/PTSOUT_D1/PTSIN2_D1/DEMODOUT_D1
GPA_18/PTSOUT_D2/PTSIN2_D2/DEMODOUT_D2
GPA_19/PTSOUT_D3/PTSIN2_D3/DEMODOUT_D3
GPA_20/PTSOUT_D4/PTSIN2_D4/DEMODOUT_D4
GPA_21/PTSOUT_D5/PTSIN2_D5/DEMODOUT_D5
GPA_22/PTSOUT_D6/PTSIN2_D6/DEMODOUT_D6
GPA_23/PTSOUT_D7/PTSIN2_D7/DEMODOUT_D7
R4C10必须加上，不管是否有带CI！！
R4C10必须加上，不管是否有带CI！！
MAIN5V
Q0C1 AO3401A
VCC_CI
R7C9 47KΩ
R4C2 4.7KΩ
R4C3 1KΩ
C0C7 10uF 16V
C0C4 10uF 16V
C0C3 10uF 16V
C0C5 100nF 16V
CI_VCC
R8C1 1KΩ
Q0C2 KMBT3904
CI_CD1#
CI_CD2#
R5C4 10KΩ
R5C10 10KΩ
MAIN3V3
R5C4，R5C10 必须加上，不管是否有带CI！！
TSO-CLK
R4C4 22Ω
TSO_CLK
CH_CLK
R4C5 22Ω
CH-CLK
C0C2 NC/10pF 50V
C0C6 NC/10pF 50V
Close to SOC
JA0C1
PCMCIA SOCKET
VCC_CI
R4C6 10KΩ
R4C7 10KΩ
R4C8 10KΩ
R4C9 10KΩ
CH_VALID
CH_CLK
R5C1 56Ω
R5C2 22Ω
R5C3 10KΩ
R5C9 10KΩ
R8C2 NC/0Ω
R5C8 10KΩ
R5C7 10KΩ
R5C8 56Ω
R5C9 56Ω
R6C1 56Ω
R6C2 56Ω
R6C3 56Ω
R6C4 56Ω
R6C5 56Ω
R6C6 56Ω
R6C7 56Ω
R6C8 10KΩ
R6C9 10KΩ
CI_REG#
TSO_CLK
TSO_VALID
TSO_START
TSO_D0
TSO_D1
TSO_D2
TSO_D3
TSO_D4
TSO_D5
TSO_D6
TSO_D7
CI_CD2#
CI_RESET
CI_IORD#
CI_IOWR#
CI_WAIT#
CI_VCC
CH_START
CH_DATA0
CH_DATA1
CH_DATA2
CH_DATA3
CH_DATA4
CH_DATA5
CH_DATA6
CH_DATA7
13/18V_SW
LNB_EN
C0C8 NC/10pF

+12V_PWR to 5VSTB



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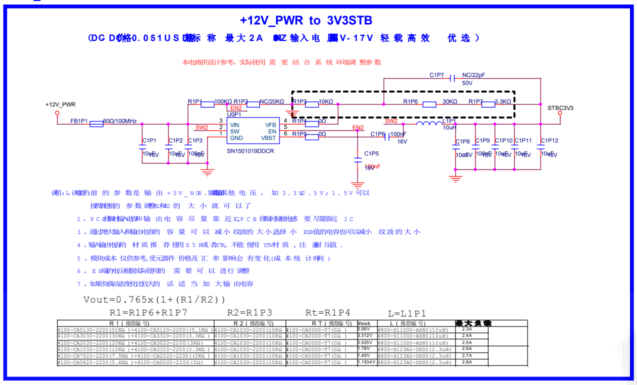
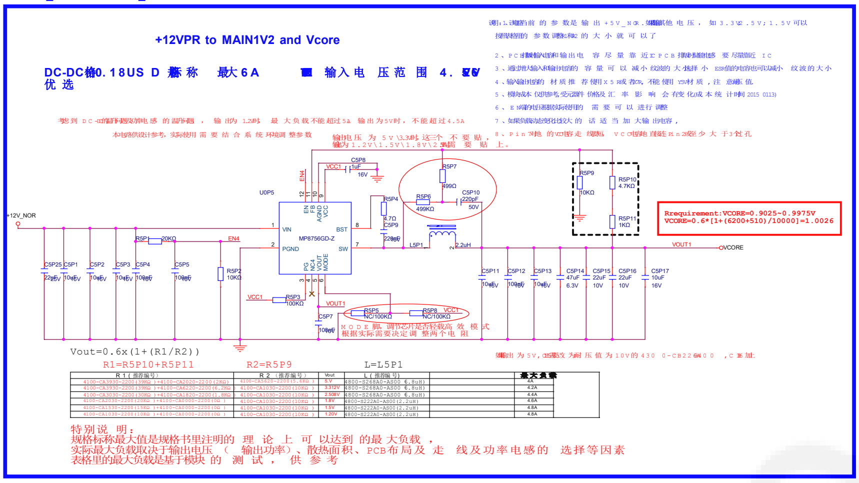


+12V_PWR to Vcore_1V



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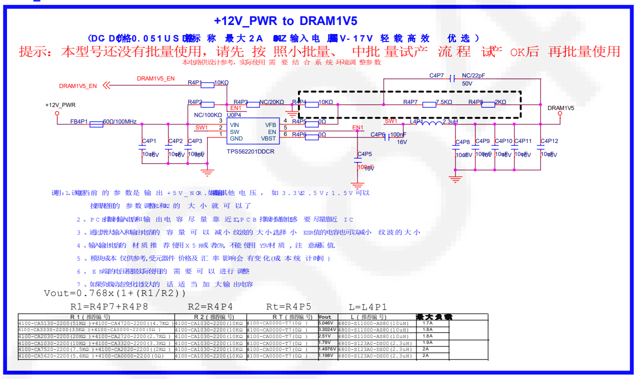
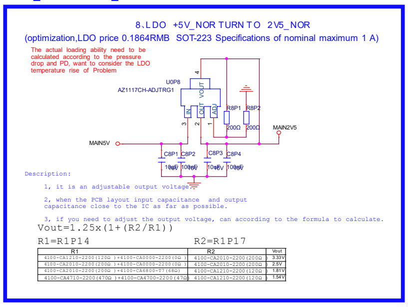


+12V_PWR to 2V5_NOR



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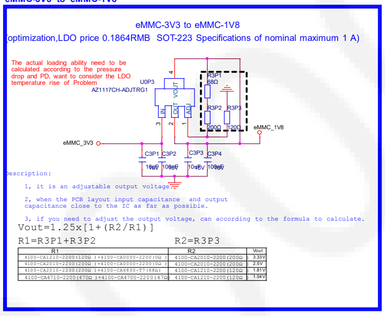
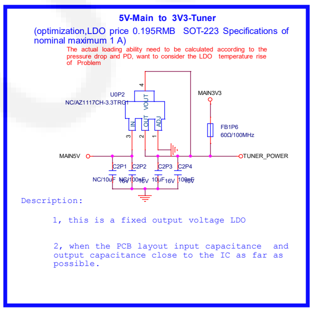
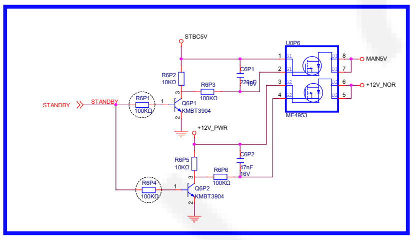


+5V_Main to 3V3-Tuner via LDO



5V/12V Switch



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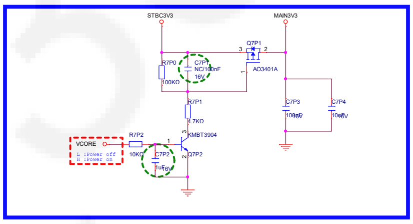
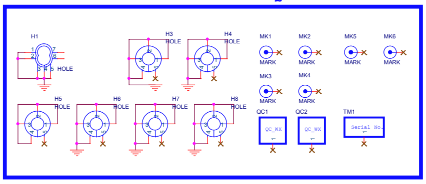


Screw Holes & Mark Points & QC & TM



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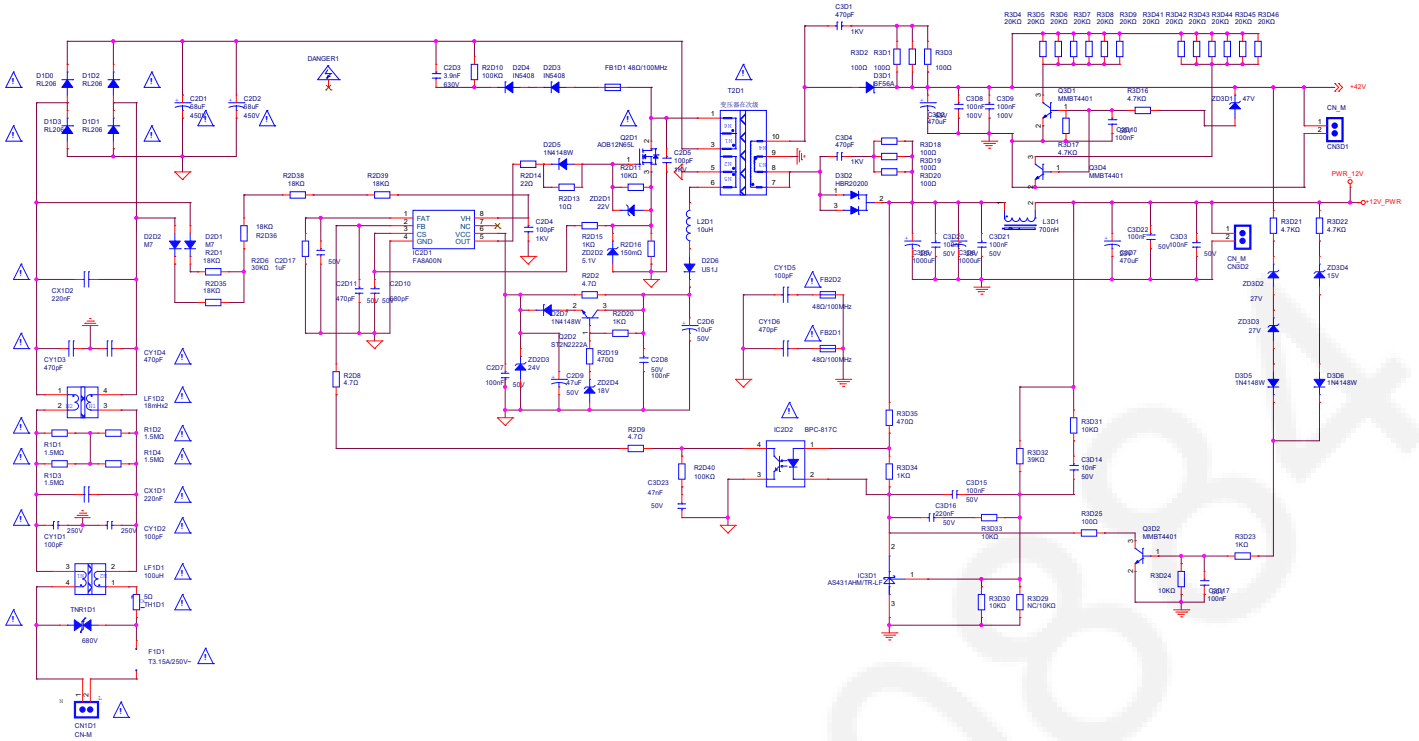
SPECIFICATION
INPUT: 100-240V AC
OUTPUT: +12V/2A
+42V/1A
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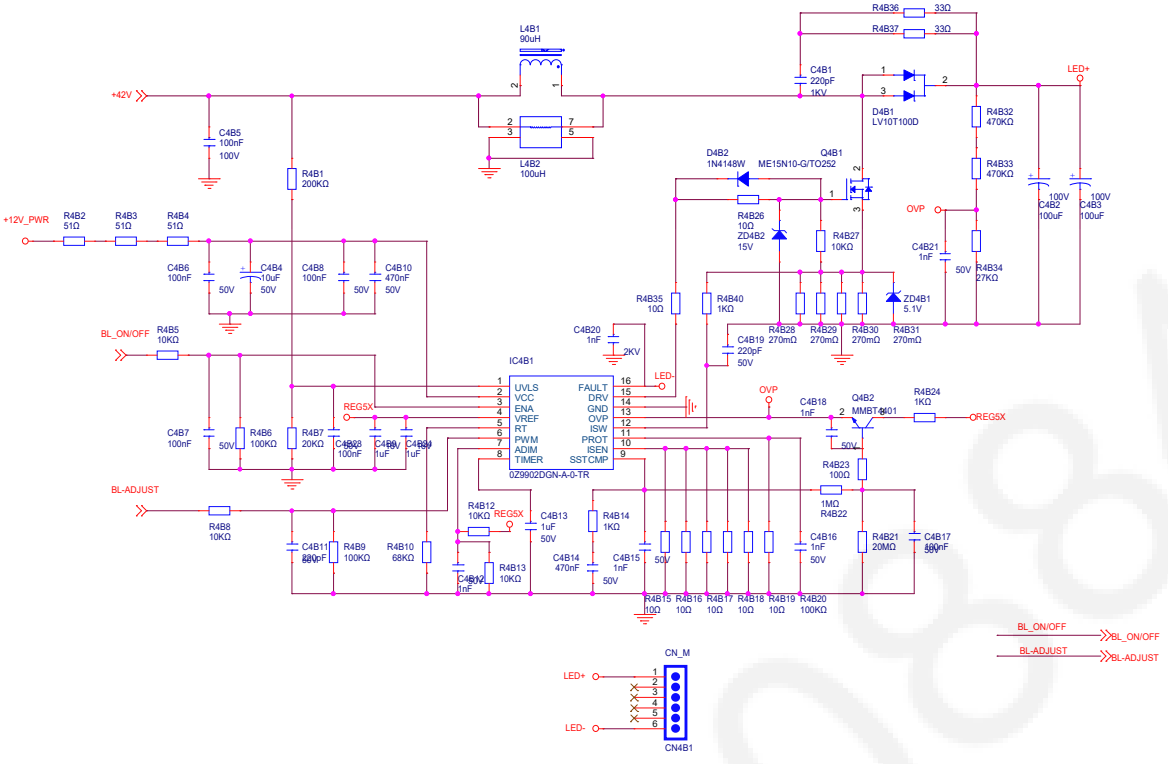
Size C
Document Number
<Doc>
Rev
<RevCode>
Date: Tuesday, February 27, 2018
Sheet 1 of 1



20161014：C4B8、C4B12改在背光板上的贴电容。

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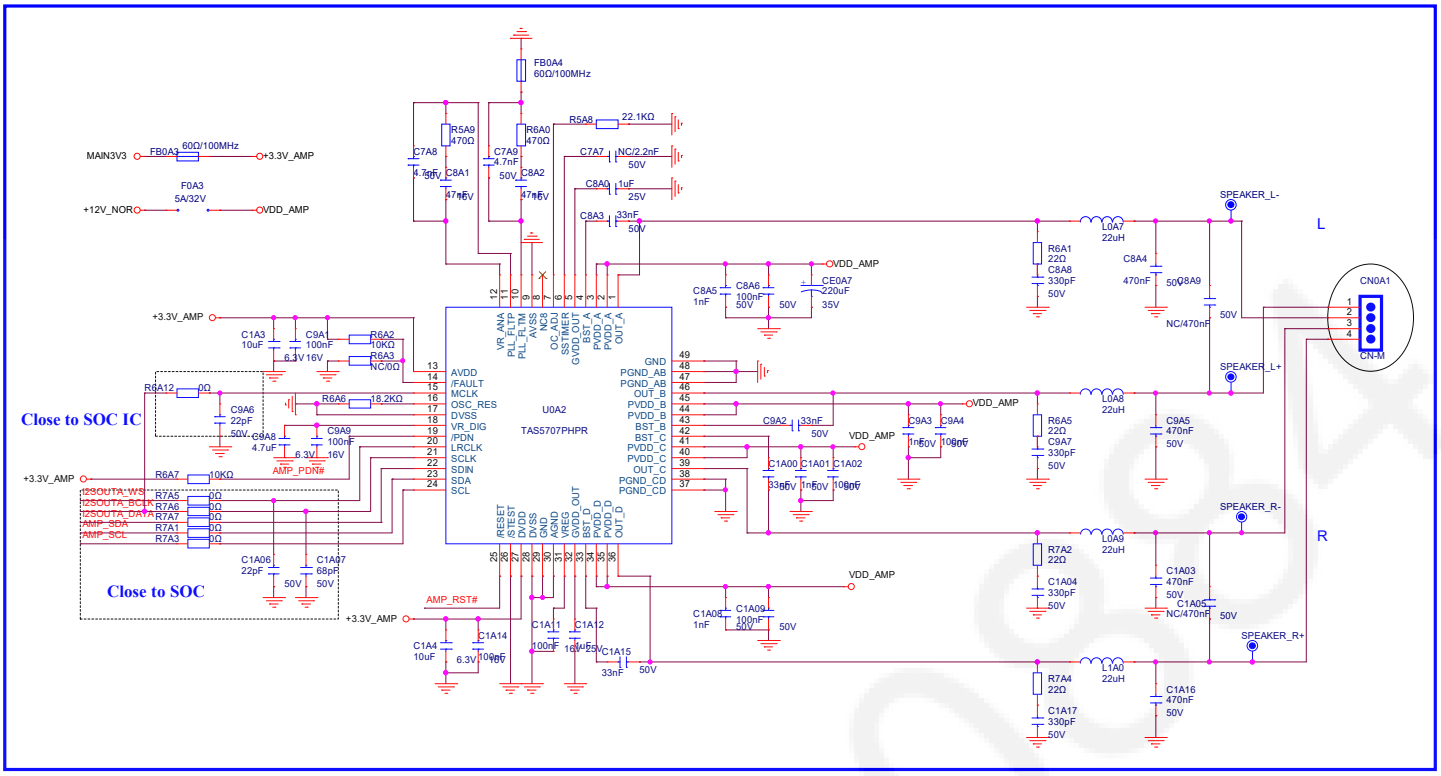
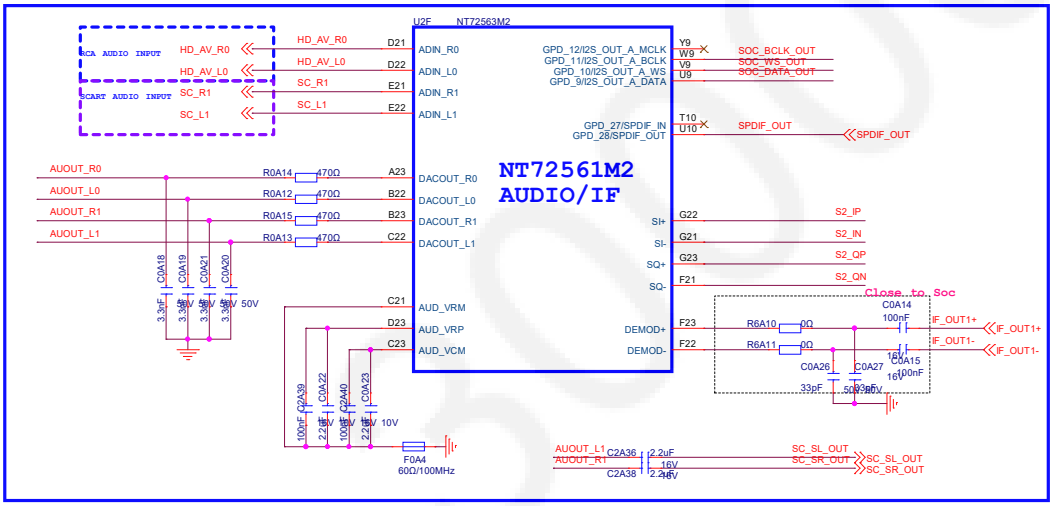
Date: Saturday, February 24, 2018	Sheet 1 of 1		

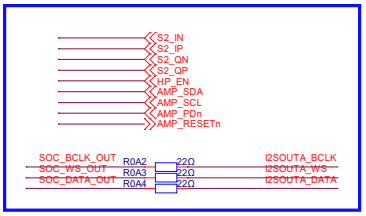
Amplifier Circuits TAS5707



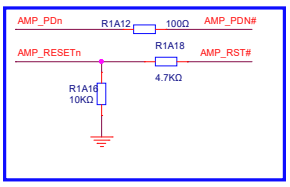
Interfaces for AMP from NT72563



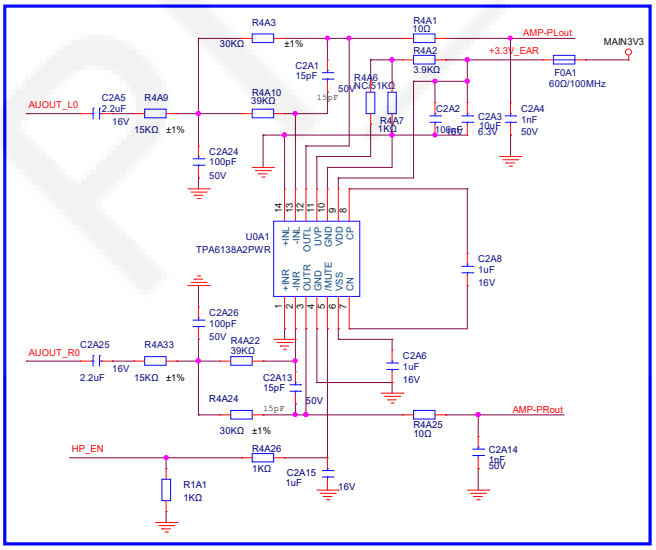
I2S for Amplifier



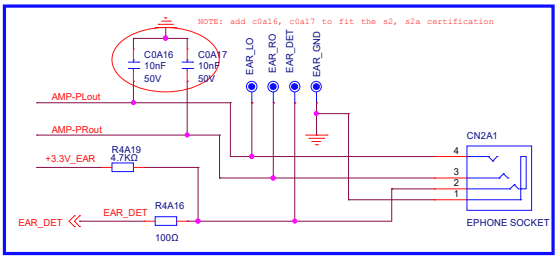
Mute Circuits



Amplifier Circuits for Earphone



Earphone Jack and Circuits



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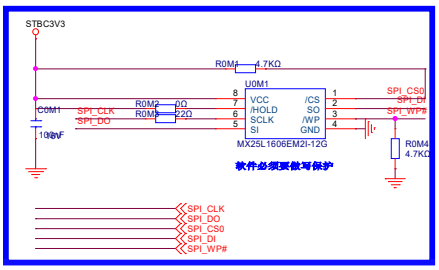
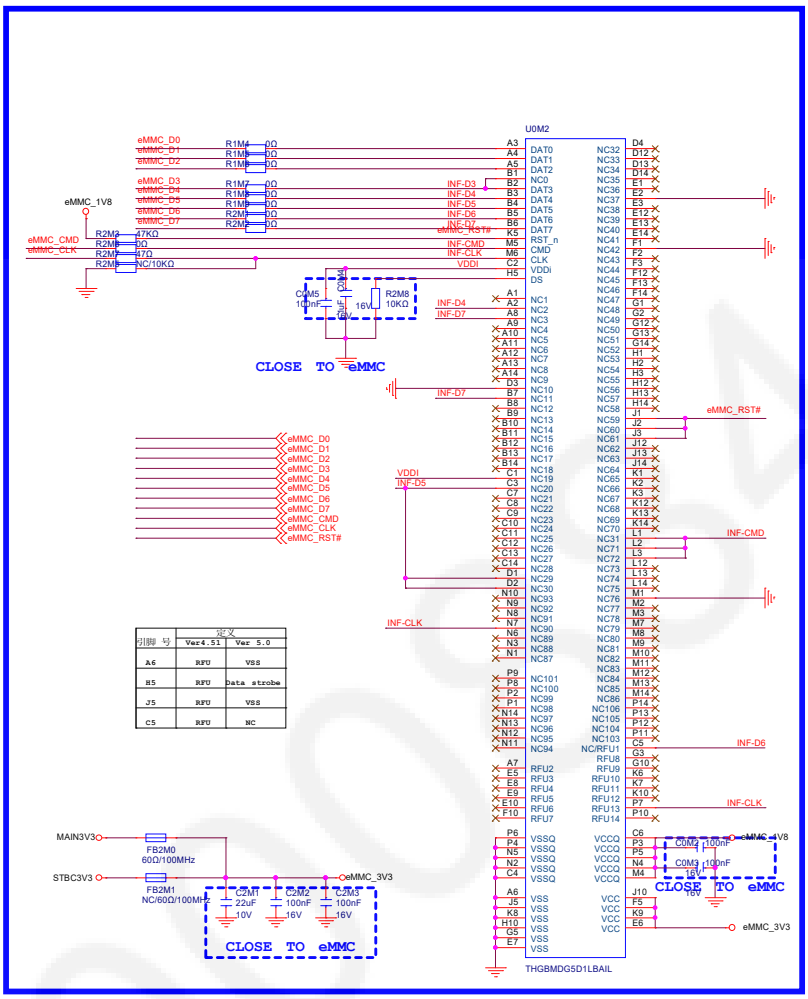
Date: Saturday, February 24, 2018	Sheet 2 of 14	

16MB SPI NOR FLASH



4GB Toshiba eMMC THGBMBG5D1KBALL



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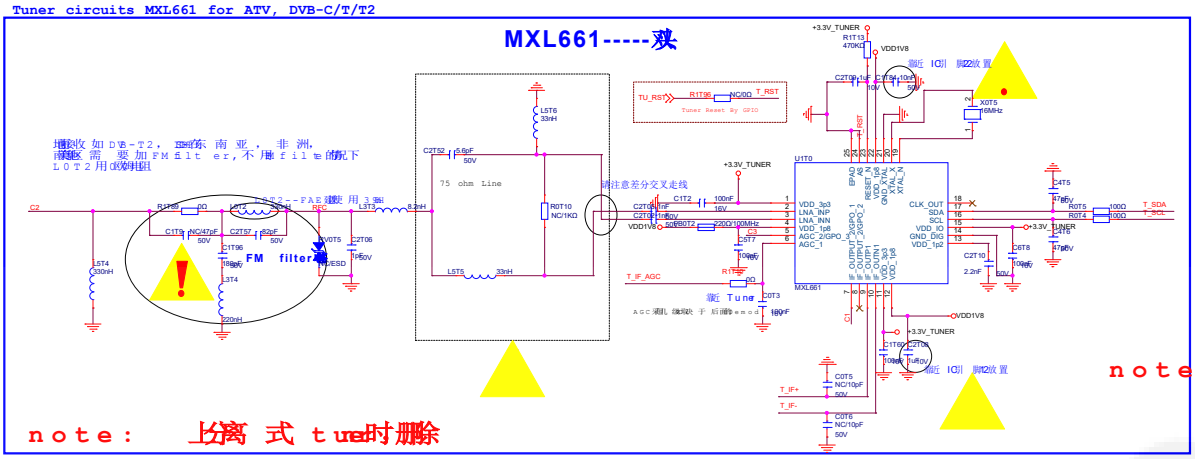
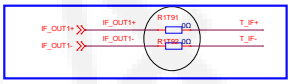
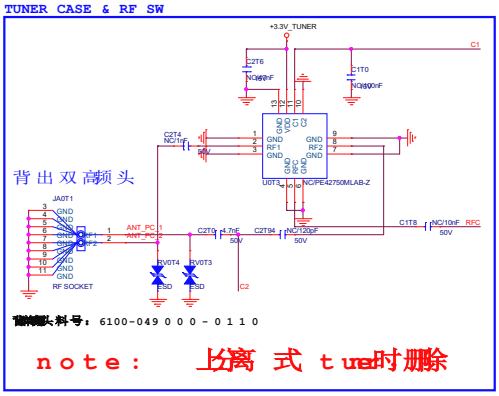
Tuner circuits MXL661 for ATV, DVB-C/T/T2

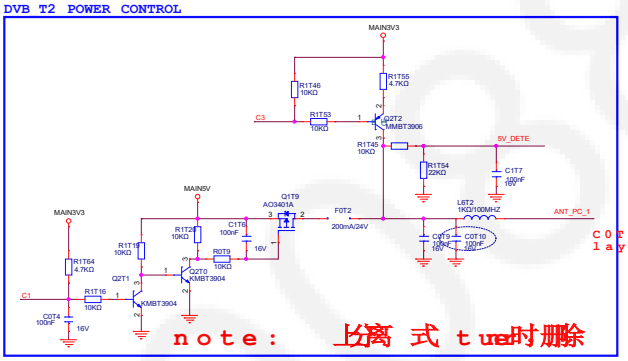




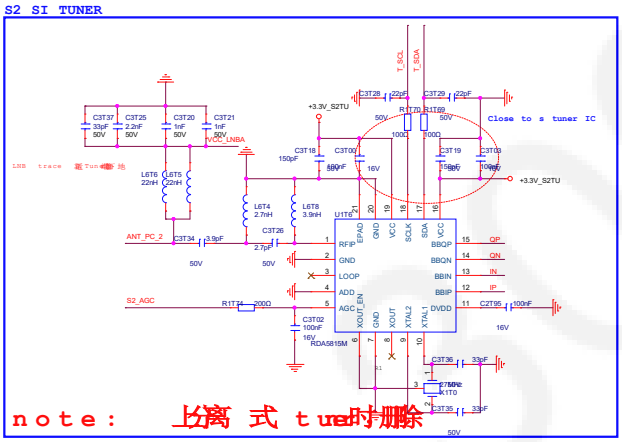
TUNER CASE & RF SW



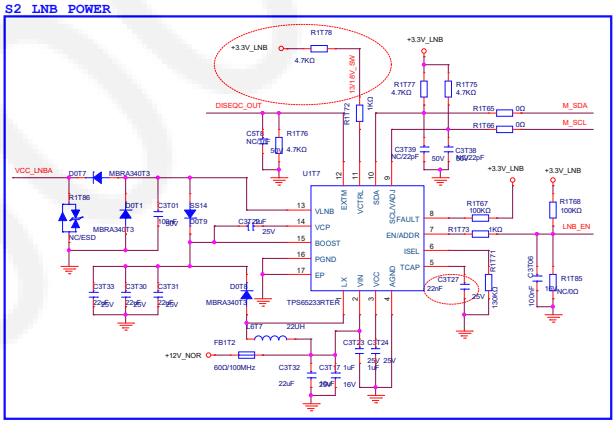
DVB T2 POWER CONTROL



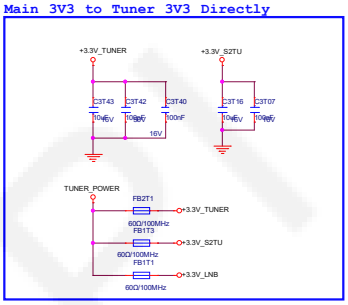
S2 SI TUNER

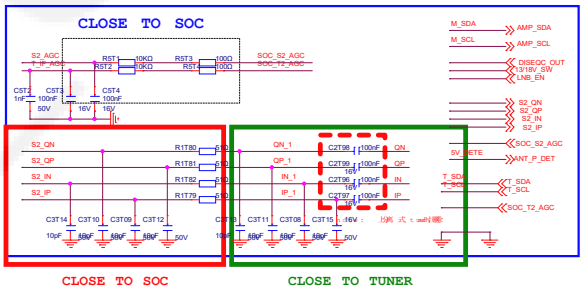


S2 LNB POWER

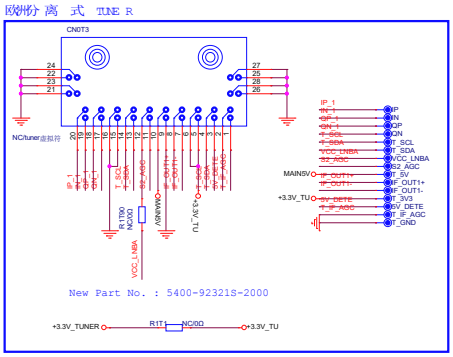


Main 3V3 to Tuner 3V3 Directly





欧纷 离 式 TUNER



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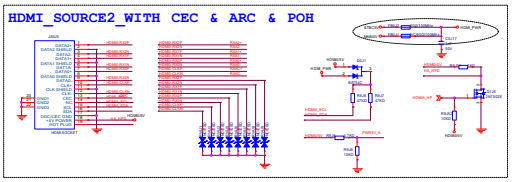
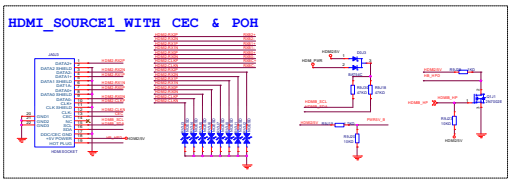
HDMI Interfaces

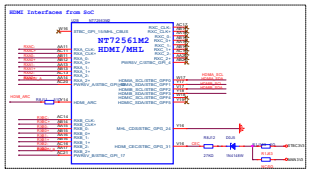
HDMI_SOURCE2_WITH CEC & ARC & POH



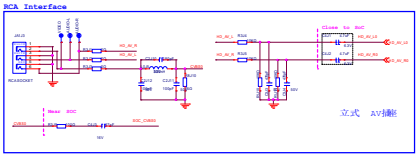
HDMI_SOURCE1_WITH CEC & POH



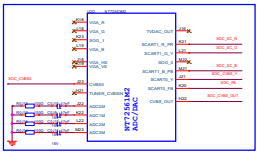
HDMI Interfaces from SoC



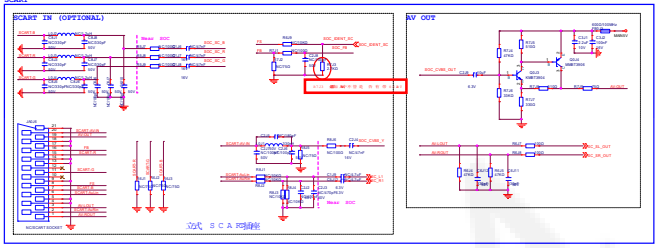
RCA Interface



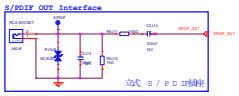
Interfaces for VGA, RCA and YPbPr from NT72562



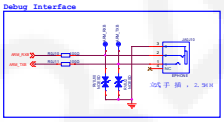
SCART



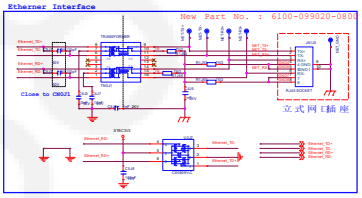
S/PDIF_OUT Interface



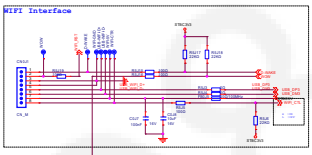
Debug Interface



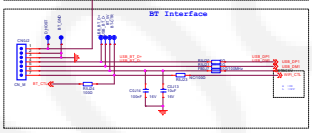
Etherner Interface



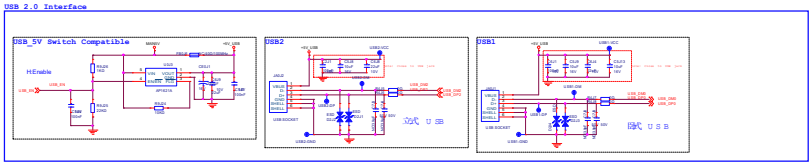
WIFI Interface



BT Interface

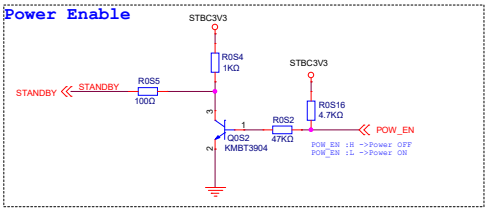


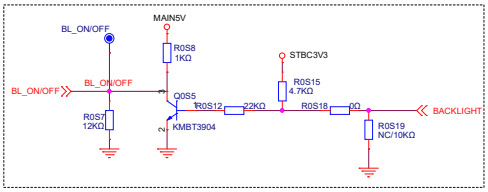
USB 2.0 Interface



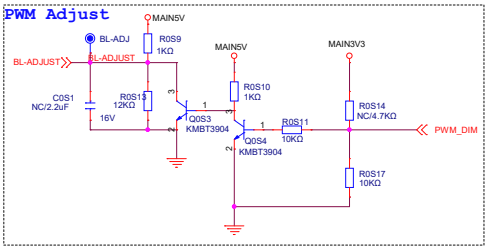
Power Enable/BL Enable/PWM Adjust

Power Enable





PWM Adjust

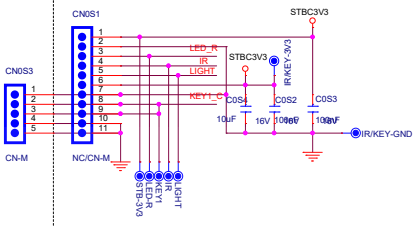


Interfaces of IR/KEY/Indicator/Light Sensor

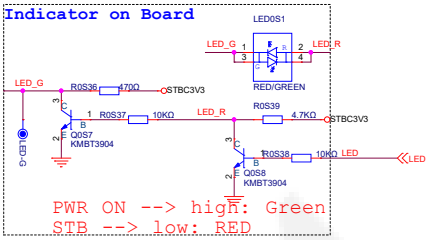
Light Sensor In

R0S3 for TOSHIBA

IR/KEY Connector Compatible

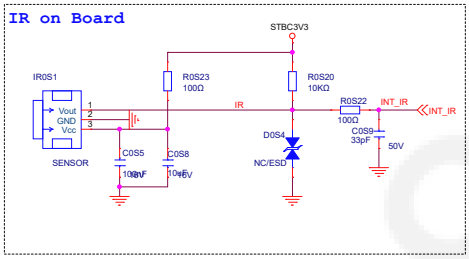


Indicator on Board

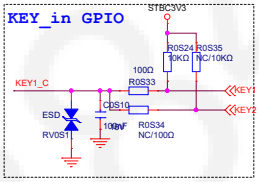


PWR ON --> high: Green
STB --> low: RED

IR on Board



KEY_in GPIO



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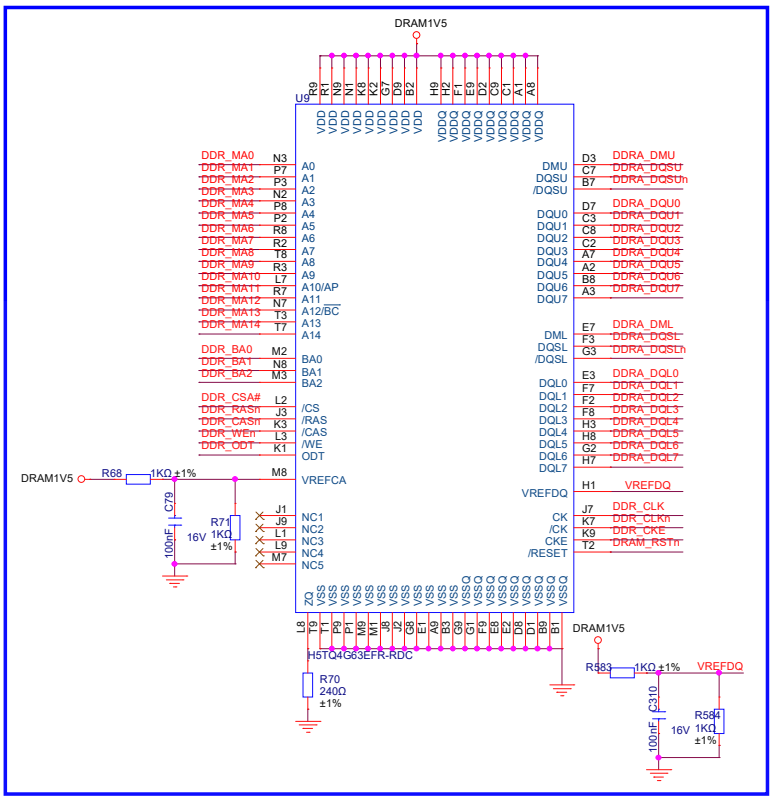
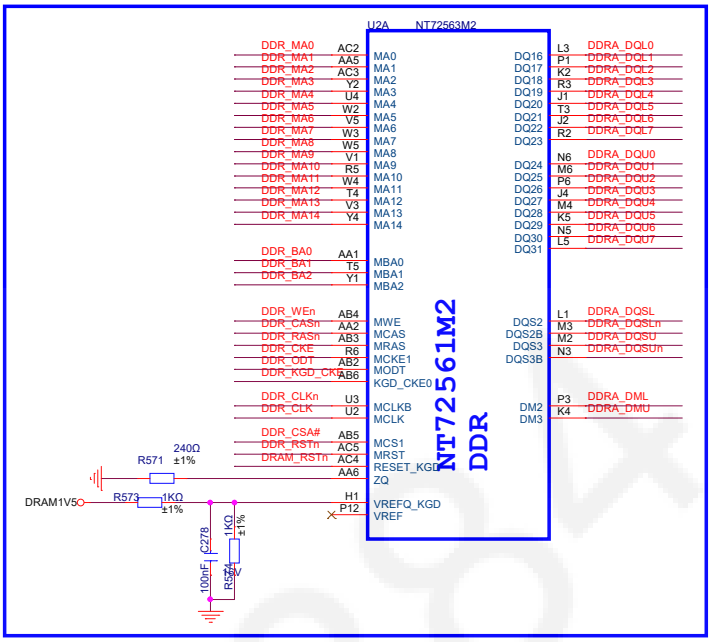
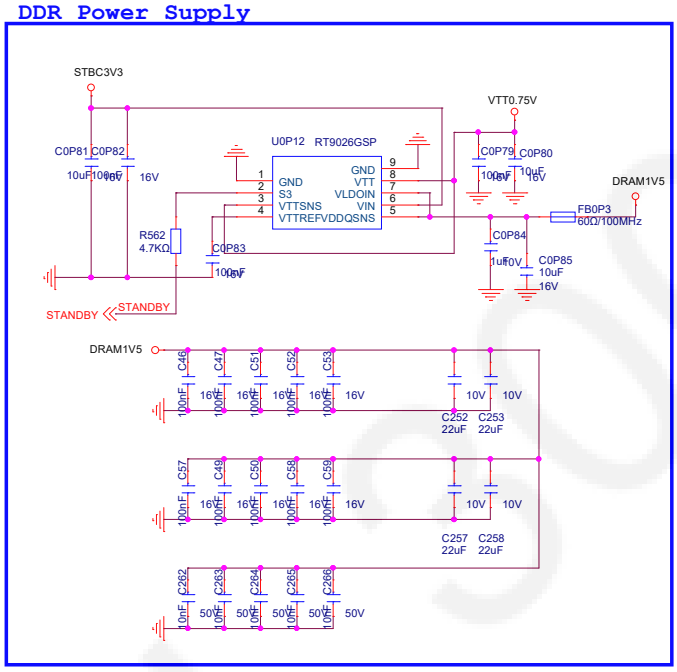
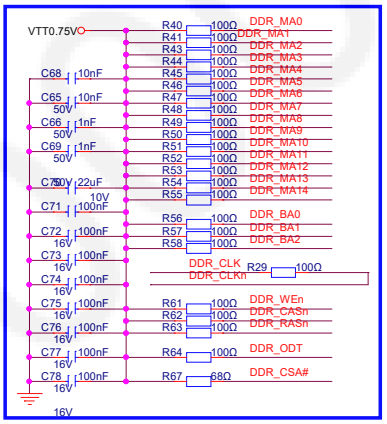
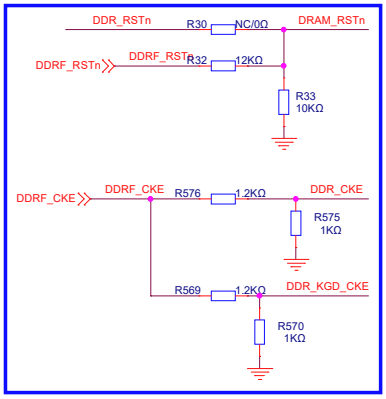




DDR Power Supply







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1删除 DVB- S2 L NB Power Circuits

删除：R4T 4　删除：D4T4　删除：C1T9
删除：D4T3　删除：C4T3　删除：D0T3
删除：D4T2　删除：C1T10　删除：L1T3
删除：C4T9　删除：C1T99　删除：FB4T1
删除：C1T101　删除：C1T95　删除：C1T18

删除：C1T17　删除：R4T15　删除：R0T42
删除：C1T16　删除：R0T13　删除：R0T12
删除：R0T23　删除：R0T31　删除：R0T28
删除：C1T96　删除：R0T1　删除：R0T39
删除：R0T24　删除：R0T30　删除：R0T41

删除：C1T23　删除网络 ： LNB_EN
删除：C1T24　删除网络 ： VCC_LNBA
删除：U1T3　删除网络： 13/18V_SW
删除网络： +3.3V_LNB　删除网络： DISEQC_OUT
删除网络 ： AMP_SDA&AMP_SCL至U1T3

2删除Tuner circuits RDA5815 for DVB-S2

删除：C917　删除：L174　删除：C19
删除：C116　删除：C174　删除：C1T10
删除：C117　删除：L175　删除：C1T11
删除：C118　删除：L172　删除：C1T12
删除：L173　删除：C175　删除：R1T12

删除：R1T11　删除：R972　删除：C1T20
删除：C1T13　删除：R973　删除：X271
删除：C1T14　删除：R974　删除：C173
删除：FB17　删除：C1T21　删除：R176
删除：R971　删除：C1T19　删除：U071

删除：FB171　删除：C171　删除：C172

删除网 络 ：QP　删除网 络 ： TUNER_SDA至U0T1
删除网 络 ：QN　删除网 络 ： TUNER_SCL至U0T1
删除网络 ：IN　删除网络： +3.3V_LNB
删除网络 ：IP　删除网络： +3.3V_S2TU
删除网 络 ：RFIP　删除网 络 ： VCC_LNBA
删除网 络 ： S2AGC

TUNER_SDA至U0T1管脚路 去 除 ？ ？？

3删除 IS DB Compatible

删除：C371　删除：R371　删除：C373
删除：U072　删除：C375　删除：C376
删除：R474　删除：D372　删除：C372

4删除Interfaces for Tuner Circuits from NT72562

删除：C575　删除：C576　删除：C577
删除：C578　删除：C5T14　删除：C5T15
删除：C5T17　删除：C5T18　删除：R577
删除：R578　删除：R579　删除：R5T10
删除：C5T11　删除：C5T12　删除：C5T13

删除：C5T15　删除：C0A9　删除：C0A10
删除网 络 ： S2QN　删除网 络 ： S2QP
删除网 络 ： S2IN　删除网 络 ： S2IP
删除网 络 ： S2QN　删除网 络 ： S2QN

5、删除 S2_AGC

删除：R571　删除：R573　删除：C574

6 、加光感电路

7 、兼 容 WIFI模块贴 在 板上

增加： CN0J2 wifi模块 料不对，为 临 时 封装

8 、修改端子为背 出封 装

VGA:JA0J7　614P-260010-1510改为6100-260010-150

VGA增加兼 容端 子　JA0J10　6100-0200 0140
ESD RV0J2 RV0J10

S/PDIF:JA0J9　6100-160110-0170改为封 装

AV:JA1J3　6100-16F110-03D0/NC改为封 装

RJ45背出转 接

YPbPr背出转接

高频头双头 改 单 头JA071
616P-049100-0280改为6100-049100-01C 0

9 、更新 U0 P5 8T6 封装

9 、其他电路修改

增: CE0L 1　100
增: C7J1 C7J2　10u兼 容PCAUD0IN
修改： C6P1 、 C7P1 、 C7P2改为1u
修改： CN0S1座接口 顺5V和 3V对 调

10 、改优选

U0M2　4701-T5D4G0-1530改为4701-T5D4G1-150
U9 DDR
U0J2　47FY-A10130-0060改为47FY-A39904-006

R2J6 R2J7 R235 R0S28 R0P8
PCSDA/SCL4144-CA4720-T7改为4100-CA4720-T7
R9J13

修改: LD0准 化47B6-A11174-03 00
修改: LD0准 化47JN-J11173-00 30

11 、高频头改标 准 电 路

C3T05改为 120P
增加 L47
增加 R1T88，C3T04
R1T24改为 0R
删除晶振两下地电容 位

U0J3改为47J5-A16211-005
U0J2改为47HL-C0809C-006
CN0S1 接座改 改 ， 5V3V对 调 ， HSYNC2调 其他不变

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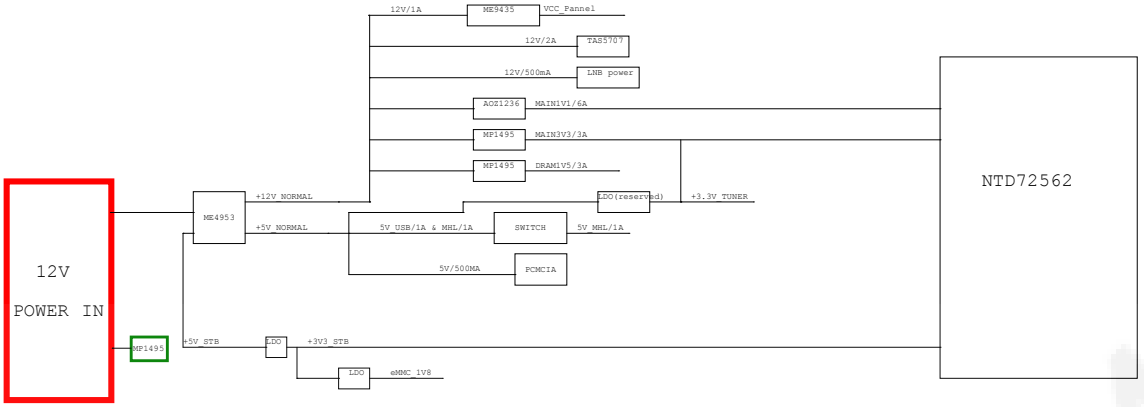

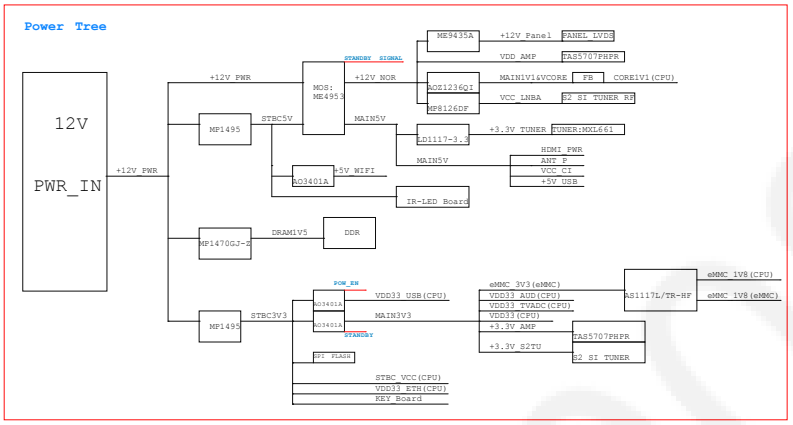

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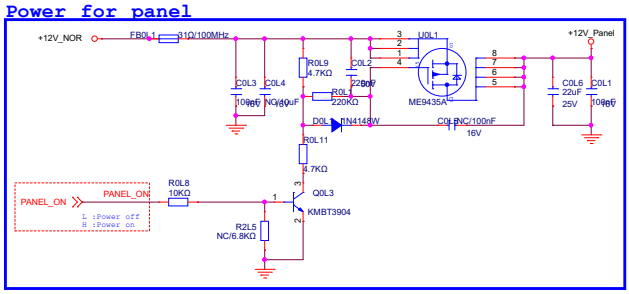
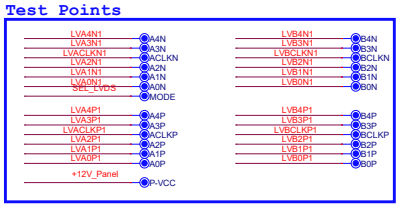
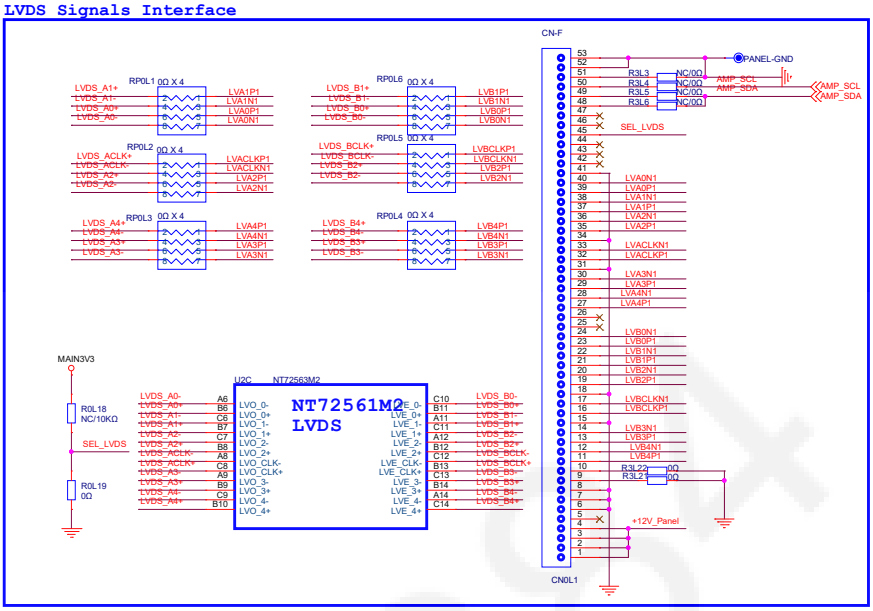
Power for panel



Test Points



LVDS Signals Interface



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Custom		1.0
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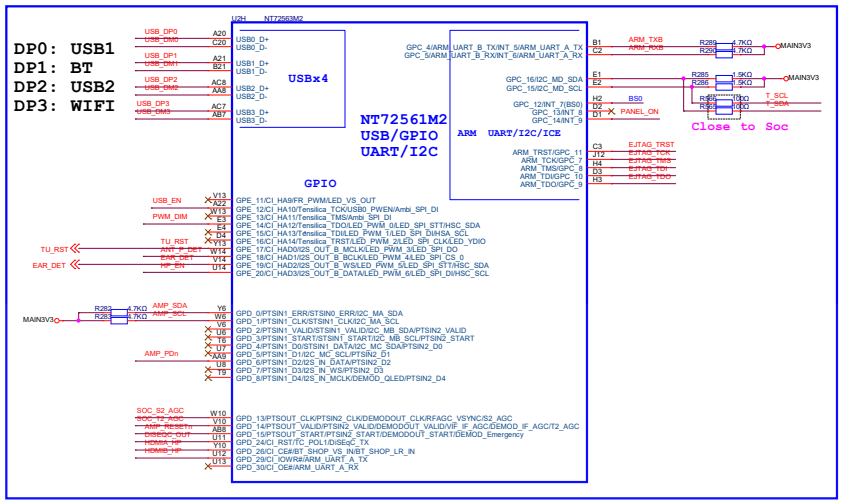
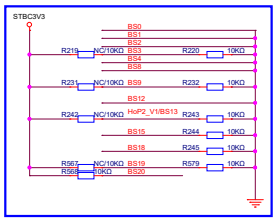
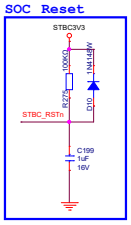
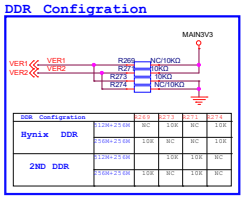




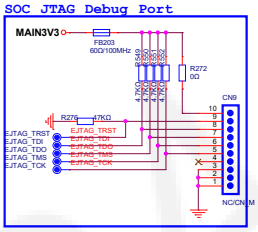
SOC Reset

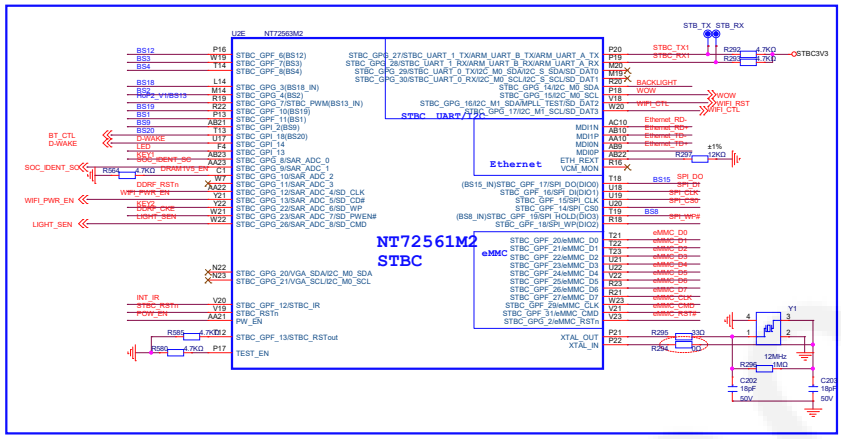


DDR Configration

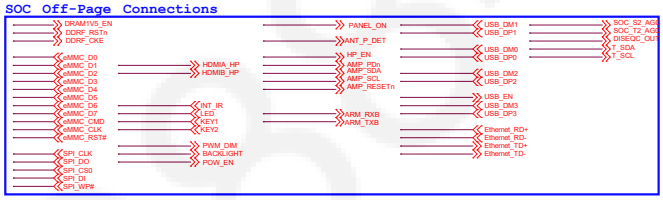


SOC JTAG Debug Port





SOC Off-Page Connections



Size	Document Number	Rev
Custom	17_STBC/CPU GPIO	1.0

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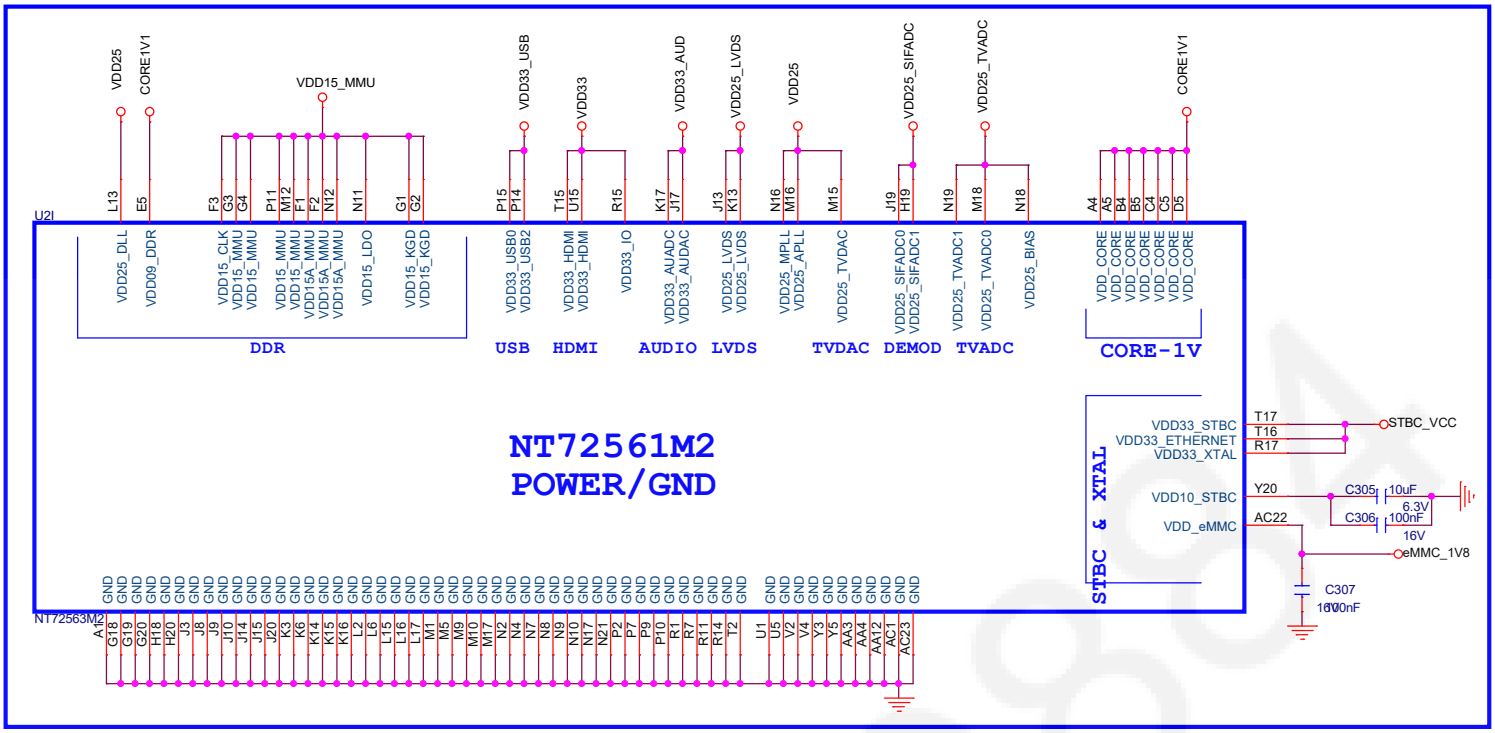

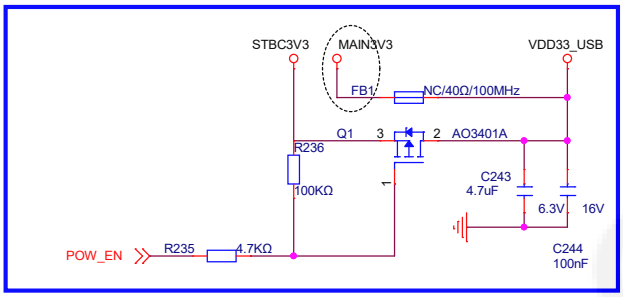

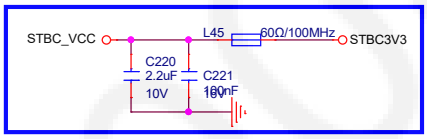

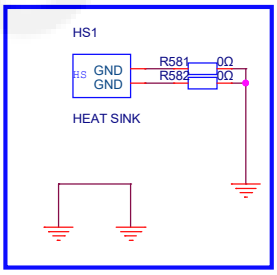

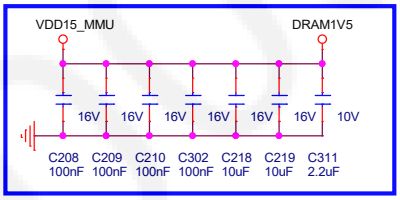

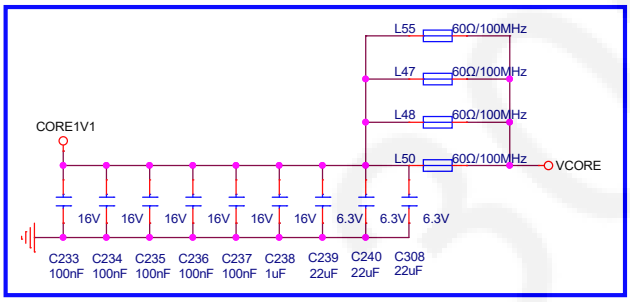

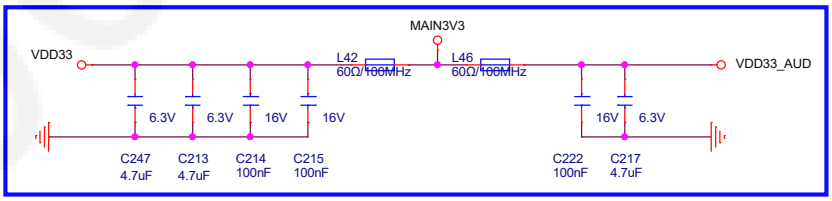

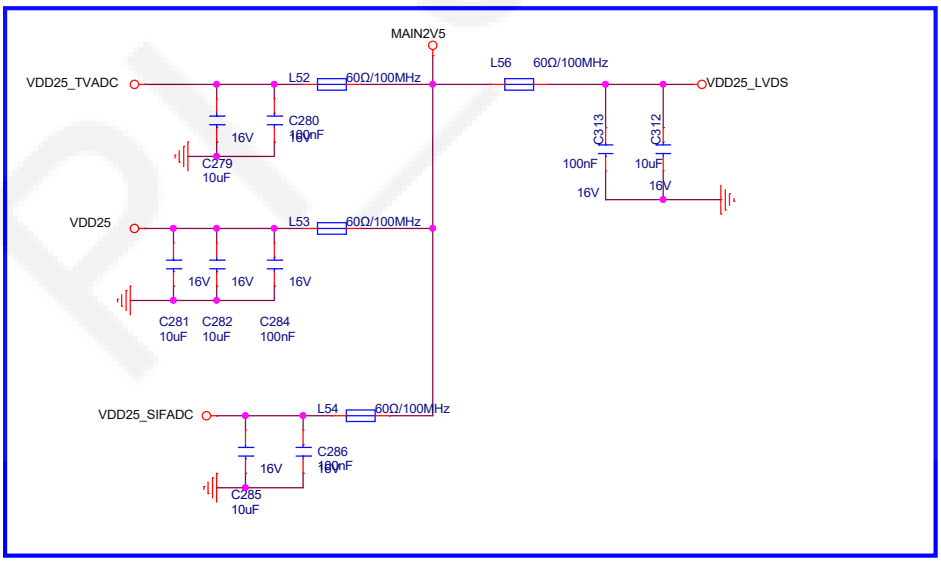

Size	Document Number	Rev
Custom		1.0
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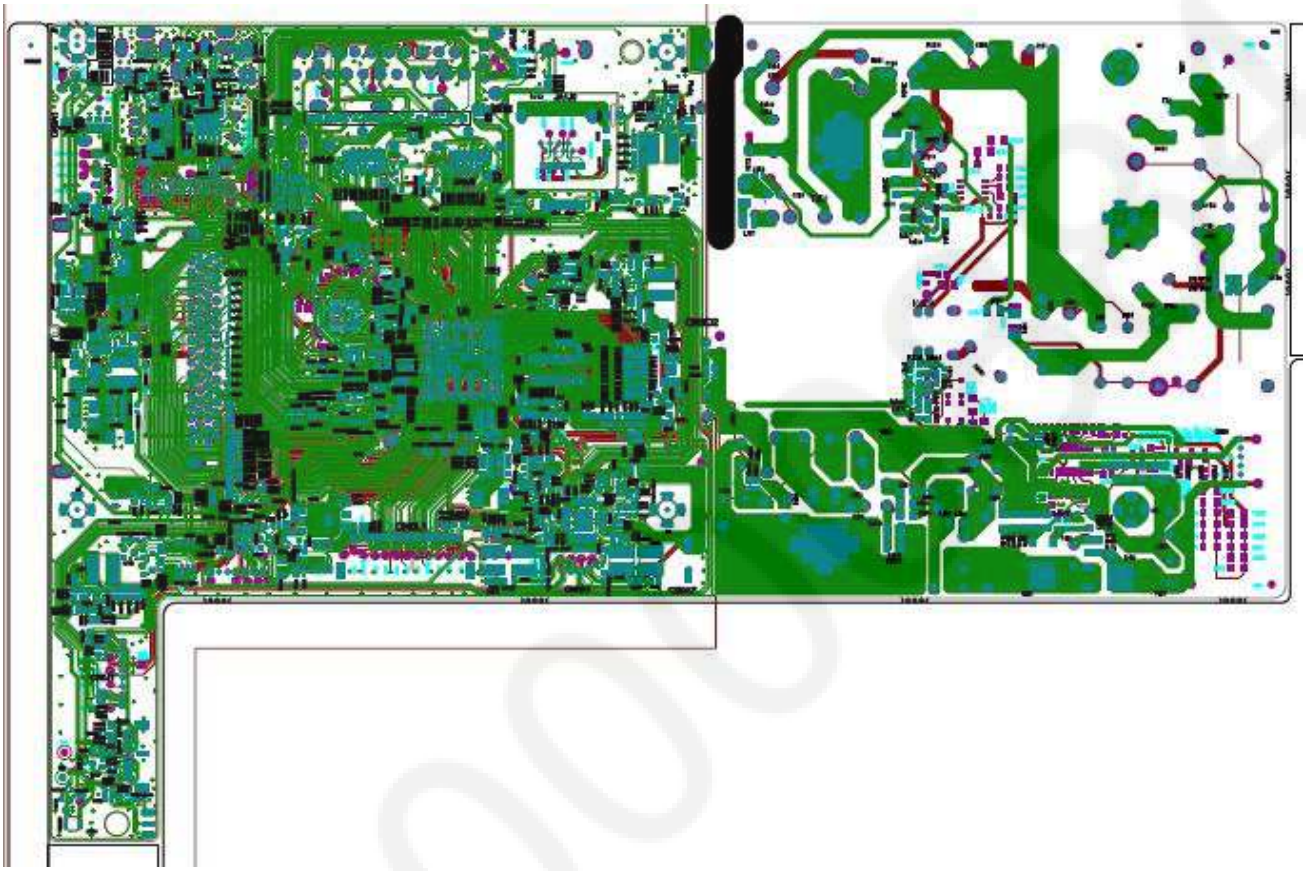
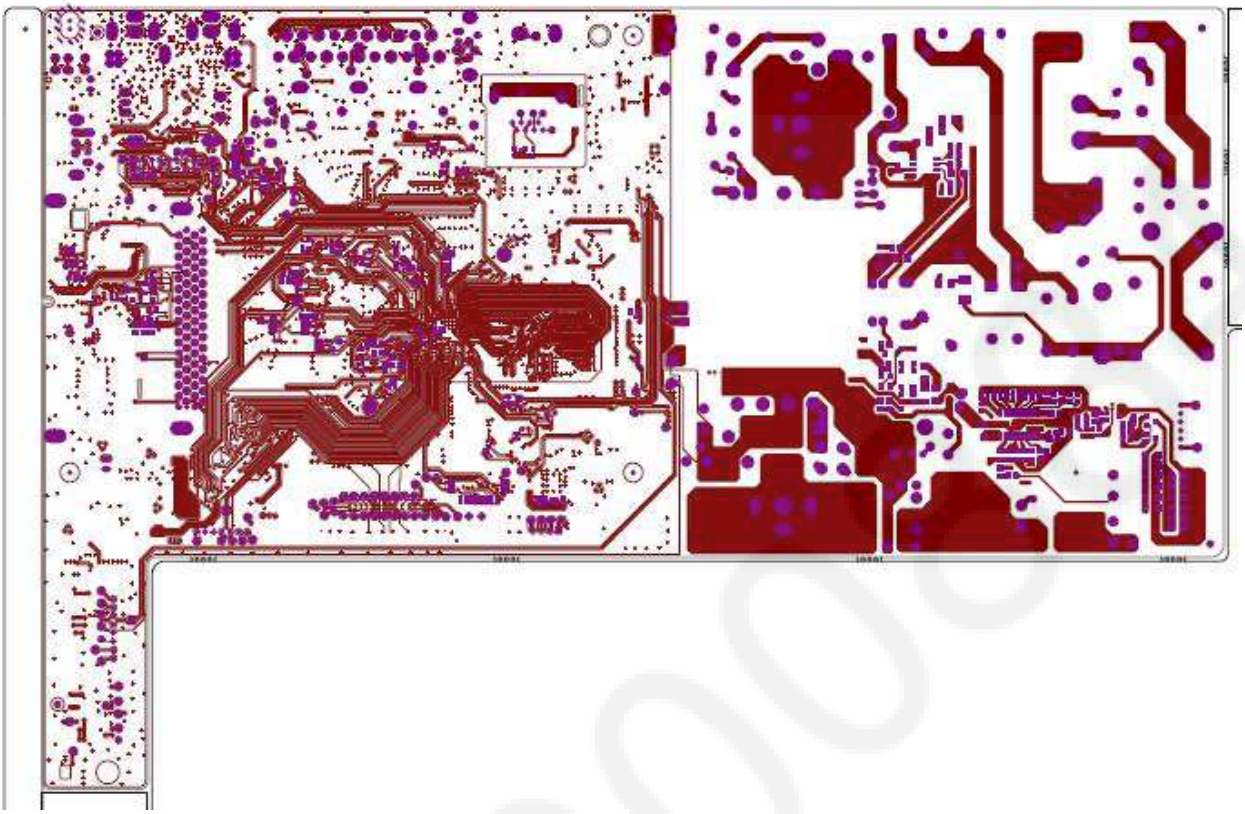
MAIN PCB

1.TOP



2、BOTTOM



IGP LIST

Description	Part no.	Part Name	QTY	Unit	Model No.	Model Name	HS Code
B.CAB HIPS(94-V0) DG001 43E2X000-PA6 7N0	1002-43E2X006-21	Back Cover	1	PC	TH-43FS432M	43 INCH TV	8529908100
7N07T-43PE2A（HI)MAIN BOARD ASEMBLE	7N07T-01H43PE2A-S0	Main Board	1	PC	TH-43FS432M	43 INCH TV	8529908100
43" CKD SKYWORTH LCD RDL430FY(LD0-70R)	7626-T4300L-K101	Panel	1	PC	TH-43FS432M	43 INCH TV	9013803020
BASE(L) ABS HNB001 43E2XLR1-21 XIAO MY	1020-43E2XL10-2104	Pedestal(L)	1	PC	TH-43FS432M	43 INCH TV	8529908100
BASE(R) ABS HNB001 43E2XR10-PA XIAO MY	1020-43E2XR10-2104	Pedestal(R)	1	PC	TH-43FS432M	43 INCH TV	8529908100
SPEAKER BOX 6 OHM 10W MAX 12W 107*38.	53FJ-3932E2-0020	Speaker	2	PCS	TH-43FS432M	43 INCH TV	8518290000
AC LINE CORD 1500MM 0.75*2 VDE PLUG(BE	5942-A15203-1080	Power Cord	1	PC	TH-43FS432M	43 INCH TV	8544422900
HANDSET ASS'Y HS-0404J-00 "Panasonic TV"	539C-260404-W000	Remote	1	PC	TH-43FS432M	43 INCH TV	8543709990
FFC 51 PINS P=0.5MM L=729MM(60+300+165	5900-F72130-5100	LVDS Cable	1	PC	TH-43FS432M	43 INCH TV	8544422900

BOM LIST			
编号	物料描述	数量	单位
207N-07TQPE2AX01	7N07T-43PE2A PANEL BOM	1	ST
7N07T-43PE2A00-00	ELE. BOM 7N07T-43PE2A	1	ST
FWBX-QPE2AAB7N07T	MKD STR.LED BOM 7N07T-43PE2A(PANASONIC)	1	ST
ZL00-N72563-03	PATENT COMPONENTS NT72563C 7N07T-43PE2A	1	ST
2043-T7N07TX-K0	ELE.SCREEN ASS'Y(7626-T4300L-K101)7N07T-	1	ST
7N07G-01SB0W-00	(TI) MAIN MATCH SCREEN ASS'Y(7618-T4000Q	1	ST
168P-G3U03C-W7	LED POWER ASS'Y 75W FUJI(FA8A00N) INPUT	1	ST
7626-T4300L-K101	43" CKD SKYWORTH LCD RDL430FY(LD0-70R) J	1	PC
7N07T-04SA00-00	(TI) CONTROL BOARD ASS'Y 7N07T-43PE2A	1	ST
7N07T-27HA00-00	NON COMMON ASS'Y 7N07T-43PE2A	1	ST
7N07T-01SA00-03	(TI) MAIN ASS'Y 7N07T-40PE2A	1	ST
7N07T-01HA00-02	(HI) MAIN ASS'Y 7N07T-43PE2A	1	ST
7N07T-04HA00-00	(HI) CONTROL BOARD ASS'Y 7N07T-43PE2A	1	ST
AP00-QPE2A0-W0	ALL MECHANICAL PARTS 7N07T-43PE2A(PANASO	1	ST
CM00-QPE2AB-W0	CABINET COLOUR MATCH 7N07T-43PE2A(PANASO	1	ST
OP00-QPE2A0-W0	OTHER PARTS 7N07T-43PE2A(PANASONIC)	1	ST
PP00-QPE2A0-W0	PACKAGING PARTS 7N07T-43PE2A(PANASONIC)	1	ST
ST00-40E2X0-W7	STAND PARTS XIAO MY 40E2-A REACH HNB001	1	ST
5900-F72130-5100	FFC 51 PINS P=0.5MM L=729MM(60+300+165+1	1	PC
5400-9A412S-5130	SMD FPC CONNECTOR P=0.5MM 51 PINS H-TYPE	1	PC
168P-G3U03C-SAW7	(TI) POWER ASS'Y 168P-G3U03C-W7	1	ST
168P-G3U03C-AAW7	(AI) POWER ASS'Y 168P-G3U03C-W7	1	ST
168P-G3U03C-HAW7	(HI) POWER ASS'Y 168P-G3U03C-W7	1	ST
7626-T4300L-K100	43" CKD SKYWORTH LCD 1920*1080 FOR OVERS	1	PC
FC00-QPE2A0-K0	CKD F.CAB PARTS 43PE2A FOR ALL IN ONE PC	1	ST
411Q-CA0000-2200	SMD RESISTOR 0 OHM 1/16W +/-1% (1.0 X0.5	1	PC
411Q-CA0000-T7	SMD RESISTOR 0 OHM 1/16W +/-5% (0402 1	1	PC
411Q-CA1030-2200	SMD RESISTOR 10K OHM 1/16W +/-1%(1.0X0.5	1	PC
4144-CA1639-2200	SMD RESISTOR 16.9K OHM ±1% 1/16W 1005 TA	1	PC
411Q-CA3030-2200	SMD RESISTOR 30K OHM 1/16W +/-1%(1.0*0.5	1	PC
411Q-CA6830-2200	SMD RESISTOR 68K OHM 1/16W +/-1% (1.0 X0	1	PC
5448-99113S-0300	SMD WAFER(M) P=1.25MM V-TYPE SINGLE ROW	1	PC
5582-11525B-0S10	SMD TACT SWITCH V-TYPE 1P5T T=0.15mm 6 P	1	PC
5823-D32E30-0P00	CONTROL PCB 20*19.8*1.6 FR-4 OSP FOR 3M1	1	PC
53FJ-3932E2-0020	SPEAKER BOX 6 OHM 10W MAX 12W 107*38.5*2	2	PC
53ED-37LR60-1000	ZINC-MANGANESE DRY BATTERY LR6-AA 1.5V	2	PC
5942-A15208-1020	AC LINE CORD 1500MM 0.75*2 BIS PLUG + IN	1	PC
5400-321351-0440	HOUSING 04(2.0)+ HOUSING 02*2(2.5)+350MM	1	PC
5400-393701-0840	HOUSING 08(2.0)+ HOUSING 08(1.25)+ 700MM	1	PC
1310-L02515A1-01	TRANSMIT HOT SILICA GEL PIECE 25*15*11MM	1	PC
5300-44MAC0-0000	MAC ADDRESSES FOR COMMON	1	PC
539C-260404-W000	HANDSET ASS'Y HS-0404J-00 "Panasonic TV"	1	PC
534L-36NTUD-H010	INSIDE WIFI MODULE NTUD-B14 2.412-2.814G	1	PC
411Q-CA3930-T7	SMD RESISTOR 39K OHM 1/16W +/-5% (0402 1	2	PC

6463-011600-T0	SMD FERRITE BEAD (1.6 X 0.8MM) TAPE TYPE	2	PC
431R-NF180C-T5	SMD NPO CERAMIC CHIP CAPACITOR 18PF 50V	2	PC
4311-CA475D-T2	SMD CERAMIC CAPACITOR 4.7UF 6.3V +/-10%(	7	PC
411Q-CA2200-T0	SMD RESISTOR 22 OHM 1/10W +/-5% (1.6X0.8	4	PC
431R-CF1030-7200	SMD X7R CERAMIC CHIP CAPACITOR 10NF 50V	12	PC
4897-S11000-AS80	SMD POWER INDUCTORS 10UH +/-20% 3.0A(6.0	2	PC
4311-CC225D-T1	SMD CERAMIC CHIP CAPACITOR 2.2UF 16V +/-	4	PC
4666-N70020-0S00	SMD TRANSISTOR ME2N7002D N-CH 60V/300MA	2	PC
411Q-CA7500-T1	SMD RESISTOR 75 OHM 1/10W +/-1% (1.6X0.8	4	PC
411Q-CA2230-T7	SMD RESISTOR 22K OHM 1/16W +/-5% (0402 1	4	PC
431R-NF470C-T5	SMD NPO CERAMIC CHIP CAPACITOR 47PF 50V	2	PC
4393-CF474D-T1	SMD C-CERAMIC,CHIP;470NF,+/-10%,50V,X7R,	4	PC
411Q-CA2730-T7	SMD RESISTOR 27K OHM 1/16W +/-5% (0402 1	1	PC
431R-NF220C-T5	SMD COG CERAMIC CHIP CAPACITOR 22PF 50V	2	PC
411Q-CA4720-T7	SMD RESISTOR 4.7K OHM 1/16W +/-5% (0402	26	PC
4522-54148F-0S00	SMD SWITCHING DIODE 1N4148W 0.3A/100V SO	3	PC
431R-NF4710-5200	SMD COG CERAMIC CHIP CAPACITOR 470PF 50V	2	PC
411Q-CA4730-T7	SMD RESISTOR 47K OHM 1/16W +/-5% (0402 1	7	PC
4876-S033B0-5300	SMD ML COIL 330NH +/-5% 1608 TAPE TYPE	1	PC
4722-T15010-0060	SMD IC SN1501019DDCR TI(3A 4.5V-17V STEP	2	PC
411Q-CA1210-2200	SMD RESISTOR 120 OHM 1/16W +/-1%(1.0*0.5	1	PC
411Q-CA6820-T7	SMD RESISTOR 6.8K OHM 1/16W +/-5% (0402	1	PC
411Q-CA1510-T7	SMD RESISTOR 150 OHM 1/16W +/-5% (0402	1	PC
411Q-CA4710-T0	SMD RESISTOR 470 OHM 1/10W +/-5% (1.6X0.	2	PC
431R-NF150C-T5	SMD COG CERAMIC CHIP CAPACITOR 15PF 50V	2	PC
411Q-CA1050-T7	SMD RESISTOR 1M OHM 1/16W +/-5% (0402 1	1	PC
6463-011608-T0	SMD FERRITE BEAD (1.6 X 0.8MM) TAPE TYPE	1	PC
47D9-M94350-0080	SMD IC ME9435A MATSUKI (P-CHANNEL MOSFET	1	PC
411Q-CA2030-T7	SMD RESISTOR 20K OHM 1/16W +/-5% (0402 1	1	PC
431R-CF3320-7200	SMD CERAMIC CHIP CAPACITOR 3.3NF 50V +/-	4	PC
5191-101601-0S00	SMD LAN FILTER S16013LF FOR 10/100M BASE	1	PC
411Q-CA3310-T7	SMD RESISTOR 330 OHM 1/16W +/-5% (0402 1	1	PC
411Q-CA1832-2200	SMD RESISTOR 18K2 OHM 1/16W +/-1%(1.0*0.	1	PC
47J5-A16211-0050	SMD IC AP1621AHKTBER CHIPOWN (HIGH-SIDE	1	PC
4311-CB1050-A200	SMD X5R CERAMIC CHIP CAP. 1UF 10V +/-20%	3	PC
4303-CF56A0-K200	SMD MLCC 5P6F 50V +/-0.1PF(1.0*0.5)TAPE	1	PC
411Q-CA2410-T6	SMD RESISTOR 240 OHM 1/16W +/-1% (0402 1	2	PC
5765-250AA2-0510	SMD LED LIGHT EMISSION RED/GREEN 5V/2mA	1	PC
411Q-CA3320-2200	SMD RESISTOR 3K3 OHM 1/16W +/-1% (1.0*0.	1	PC
5851-A7N07G-0P00	MAIN & POWER & DRIVER PCB 280*130*1.6MM+	1	PC
411Q-CA1220-T7	SMD RESISTOR 1.2K OHM 1/16W +/-5% (0402	2	PC
6463-C60033-0300	SMD FERRITE BEAD Z=100MHZ/60 OHM I=3000M	18	PC
4897-S12200-7S00	SMD WIRE WOUND COIL 22UH +/-10% 2.2A (5.	4	PC
47F2-G25161-0080	SMD IC GD25Q16CSIG GD(16M BIT SPI FLASH)	1	PC
411Q-CA1020-T7	SMD RESISTOR 1K OHM 1/16W +/-5% (0402 1	13	PC
411Q-CA4700-T7	SMD RESISTOR 47 OHM 1/16W +/-5% (0402 1	1	PC
411Q-CA0470-T7	SMD RESISTOR 4.7 OHM 1/16W +/-5% (0402	1	PC

411Q-CA1020-2200	SMD RESISTOR 1K OHM 1/16W +/-1% (1.0 X0.	7	PC
411Q-CA2231-2200	SMD RESISTOR 22K1 OHM 1/16W +/-1% (1.0*0	1	PC
4391-CT1020-7500	SMD X7R MLCC 1000PF 2KV +/-10% (3.2*1.6M	2	PC
4661-T39060-T0	SMD TRANSISTOR LMBT3906LT1G PNPPACKAGE (	2	PC
482J-S082D0-4200	SMD CHIP COIL 8.2NH +/-3% 380mA (1.0*0.5	1	PC
4722-T61380-0140	SMD IC TPA6138A2PWR TI(HEADPHONES DRIVE)	1	PC
4393-CF224E-T2	SMD CERAMIC CHIP CAPACITOR 0.22UF 50V +/	1	PC
411Q-CA2020-2200	SMD RESISTOR 2K OHM 1/16W +/-1%(1.0X0.5X	1	PC
4176-L60000-Z300	SMD VARISTOR 100-140V 1PF ESD 1608 TAPE	1	PC
4393-CC2240-7200	SMD X5R MLCC 220NF 16V +/-10% (1.0*0.5MM	3	PC
411Q-CA3330-T7	SMD RESISTOR 33K OHM 1/16W +/-5% (0402 1	1	PC
4701-T5D4G1-1530	SMD IC THGBMDG5D1LBAIL TOSHIBA (4GB E-MM	1	PC
411Q-CA4949-2200	SMD RESISTOR 499K OHM 1/16W +/-1% (1.0 X	1	PC
4522-254000-T0	SMD SCHOTTKY BARRIER DIODE BAT54C PACKAG	2	PC
431R-NF181C-T5	SMD COG CERAMIC CHIP CAPACITOR 180PF 50V	2	PC
4393-CF104D-T2	SMD CERAMIC CHIP CAPACITOR 0.1UF 50V +/-	4	PC
431R-CF472D-T5	SMD X7R CERAMIC CHIP CAPACITOR 0.0047UF	3	PC
411Q-CA5100-T7	SMD RESISTOR 51 OHM 1/16W +/-5% (0402 1.	1	PC
431U-NA4760-A400	SMD X5R MLCC 47UF 6.3V +/-20% 2012 TAPE	1	PC
4393-CF333D-T2	SMD CERAMIC CHIP CAPACITOR 0.033UF 50V +	4	PC
431R-CF2220-7200	SMD X7R CERAMIC CHIP CAPACITOR 2N2F 50V	1	PC
4666-M23450-0S00	SMD TRANSISTOR ME2345A(-30V/-4.2A P-CHAN	3	PC
411Q-CA1230-T7	SMD RESISTOR 12K OHM 1/16W +/-5% (0402 1	3	PC
4711-H5T4G7-0960	SMD IC H5TQ4G63EFR-RDC HYNIX(256M*16 DDR	1	PC
411Q-CA7520-2200	SMD RESISTOR 7K5 OHM 1/16W +/-1% (1.0*0.	1	PC
4311-CB2260-A400	SMD X5R CERAMIC CHIP CAP. 22UF 10V +/-20	11	PC
6430-012600-T0	SMD FERRITE BEAD (2 X 1.25MM) TAPE TYPEZ	1	PC
431R-NF101C-T5	SMD COG CERAMIC CHIP CAPACITOR 100PF 50V	6	PC
411Q-CA1520-T7	SMD RESISTOR 1.5K OHM 1/16W +/-5% (0402	2	PC
411Q-CA3300-T7	SMD RESISTOR 33 OHM 1/16W +/-5% (0402 1.	1	PC
411Q-CB0000-T0	SMD RESISTOR 0 OHM 1/8W +/-5% (0805 TYPE	1	PC
411Q-CA2240-2200	SMD RESISTOR 220K OHM 1/16W +/-1% (1.0 X	1	PC
47HL-C0809C-0060	SMD IC CS0809V-C TITAN(5V/3pF 4-WAY TVS	1	PC
411Q-JA0000-T2	SMD RESISTOR NETWORK (0 OHM X 4) 1/16W +	6	PC
411Q-CA4720-2200	SMD RESISTOR 4K7 OHM 1/16W +/-1% (1.0 X	1	PC
4897-S123A0-DS00	SMD POWER INDUCTORS 2U3H +/-30% 6.4A(6.0	1	PC
411Q-CD0000-T0	SMD RESISTOR 0 OHM 1/4W (1206:3.1 X 1.6M	1	PC
5313-14438R-0S00	SMD IR RECEIVER MODULES 38KHZ H-TYPE	1	PC
6435-C10252-0300	SMD FERRITE BEAD Z=100MHZ/1000 OHM I=500	1	PC
4722-T57070-0480	SMD IC TAS5707PHPR TEXAS(20W STEREO DIGI	1	PC
544E-99112S-0300	SMD WAFER(M) P=1.25MM H-TYPE SINGLE ROW	1	PC
411Q-CA6800-T7	SMD RESISTOR 68 OHM 1/16W +/-5% (0402 1.	2	PC
472L-R90260-0080	SMD IC RT9026GSP RICHTEK (DDR TERMINATIO	1	PC
4303-CF10A0-K200	SMD MLCC 1PF 50V +/-0.1PF (1.0*0.5)TAPE	1	PC
411Q-CA2720-T7	SMD RESISTOR 2.7K OHM 1/16W +/-5% (0402	1	PC
411Q-CA3920-T7	SMD RESISTOR 3.9K OHM 1/16W +/-5% (0402	1	PC
4311-CA1060-A300	SMD X5R MLCC 10UF 6.3V +/-20% 1608 TAPE	5	PC

614G-150010-1910	SMD HDMI SOCKET BLACK V-TYPE 19PIN	2	PC
4311-CD1050-7300	SMD X5R CERAMIC CHIP CAP. 1UF 25V +/-10%	2	PC
4876-2833C0-5200	SMD RF CERAMIC INDUCTOR 33NH +/-5% 200MA	2	PC
484G-S222A0-AS00	SMD MOLDED INDUCTOR 2.2UH ±20% 10A (6.6*	1	PC
431R-NF6800-5200	SMD NPO MLCC 68PF 50V +/-5% (1.0*0.5MM)	1	PC
6008-500429-T0	SMD FUSE 5A/32V FAST TIME-TO-TRIP UL/CSA	1	PC
411Q-CA0000-T0	SMD RESISTOR 0 OHM 1/10W +/-5% (1.6X0.8M	8	PC
47C4-M66100-0240	SMD IC MXL661 MAXLINEAR (SILICON TUNER)	1	PC
432N-KE227E-T1	SMD ELECTROLYTIC CAPACITOR 220UF 35V +/-	1	PC
411Q-CA5110-T7	SMD RESISTOR 510 OHM 1/16W +/-5% (0402 1	2	PC
431R-CC473D-T5	SMD X7R CERAMIC CHIP CAPACITOR 0.047UF16	9	PC
4722-T56220-0060	SMD IC TPS562201DDCR TI(2A 4.5V-17V STEP	1	PC
411Q-CA2010-2200	SMD RESISTOR 200 OHM 1/16W +/-1%(1.0*0.5	3	PC
4311-CC1060-7400	SMD X5R CERAMIC CHIP CAPACITOR 10UF 16V+	48	PC
411Q-CA1530-2200	SMD RESISTOR 15K OHM 1/16W +/-1% (1.0 X0	2	PC
411Q-CA4919-2200	SMD RESISTOR 499 OHM 1/16W +/-1%(1.0 X 0	1	PC
411Q-CA4710-T7	SMD RESISTOR 470 OHM 1/16W +/-5% (0402 1	5	PC
476A-M87560-0120	SMD IC MP8756GD-Z MPS(6A 26V STEP DOWN C	1	PC
411Q-CA1000-T7	SMD RESISTOR 10 OHM 1/16W +/-5% (0402 1.	2	PC
4176-L18002-T0	SMD VARISTOR 18V/2PF ESD 0402 TAPE TYPE(	5	PC
411Q-CA5600-5200	SMD RESISTOR 56 OHM 1/16W +/-5% (1.0 X0.	2	PC
431R-NF2210-5200	SMD C0G CERAMIC CHIP CAPACITOR 220PF 50V	1	PC
431R-CC104D-T5	SMD X7R CERAMIC CHIP CAPACITOR 0.1UF 16V	109	PC
411Q-CA1030-T0	SMD RESISTOR 10K OHM 1/10W +/-5% (1.6X0.	2	PC
411Q-CA1030-T7	SMD RESISTOR 10K OHM 1/16W +/-5% (0402	41	PC
431R-CF331D-T5	SMD CERAMIC CHIP CAPACITOR 330PF 50V +/-	5	PC
47D9-M49530-0080	SMD IC ME4953 MATSUKI (DUAL P-CHANNEL MO	1	PC
47JN-J11170-0030	SMD IC JY1117EA JY(1A ADJUSTABLE LDO) SO	2	PC
475V-N72561-4240	SMD IC NT72563MBG-AC NOVATEK(INTERNET ID	1	PC
431R-NF330C-T5	SMD NPO CERAMIC CHIP CAPACITOR 33PF 50V	3	PC
4311-CC105D-T2	SMD CERAMIC CHIP CAPACITOR 1UF 16V +/-10	4	PC
4876-S022B0-5220	SMD CHIP COIL 220NH +/-5% 100MA (1.0*0.5	1	PC
431U-CA2260-A300	SMD X5R MLCC 22UF 6V3 +/-20% 1608 TAPE T	3	PC
411Q-CA2200-T7	SMD RESISTOR 22 OHM 1/16W +/-5% (0402 1	4	PC
411Q-CA1230-2200	SMD RESISTOR 12K OHM 1/16W +/-1% (1.0 X0	1	PC
411Q-CA5120-2200	SMD RESISTOR 5K1 OHM 1/16W +/-1% (1.0 X0	1	PC
4311-CB2250-A200	SMD X5R MLCC 2U2F 10V +/-20% (1.0*0.5MM)	5	PC
6023-C20103-0500	SMD PTC RESETTABLE FUSE 0.2A/24V (3.0*1.5	1	PC
4661-T39040-T0	SMD BJTR NPN 40V SOT-23	13	PC
431U-CC1050-7200	SMD CERAMIC CHIP CAPACITOR 1UF 16V +/-10	4	PC
411Q-CA1010-T7	SMD RESISTOR 100 OHM 1/16W +/-5% (0402	47	PC
4311-CD2260-A500	SMD X5R CERAMIC CHIP CAP.22UF 25V +/-20%	2	PC
411Q-CA1040-T7	SMD RESISTOR 100K OHM 1/16W +/-5% (0402	10	PC
411Q-CA4740-T7	SMD RESISTOR 470K OHM 1/16W +/-5% (0402	1	PC
4897-S033B0-7300	SMD CHIP COIL R33UH +/-10% (1.6 X 0.8MM)	3	PC
411Q-CA7500-T7	SMD RESISTOR 75 OHM 1/16W +/-5% (0402 1	2	PC
491T-112054-RS20	SMD CRYSTAL 12.000MHZ CL:18PF +/-20PPM(3	1	PC

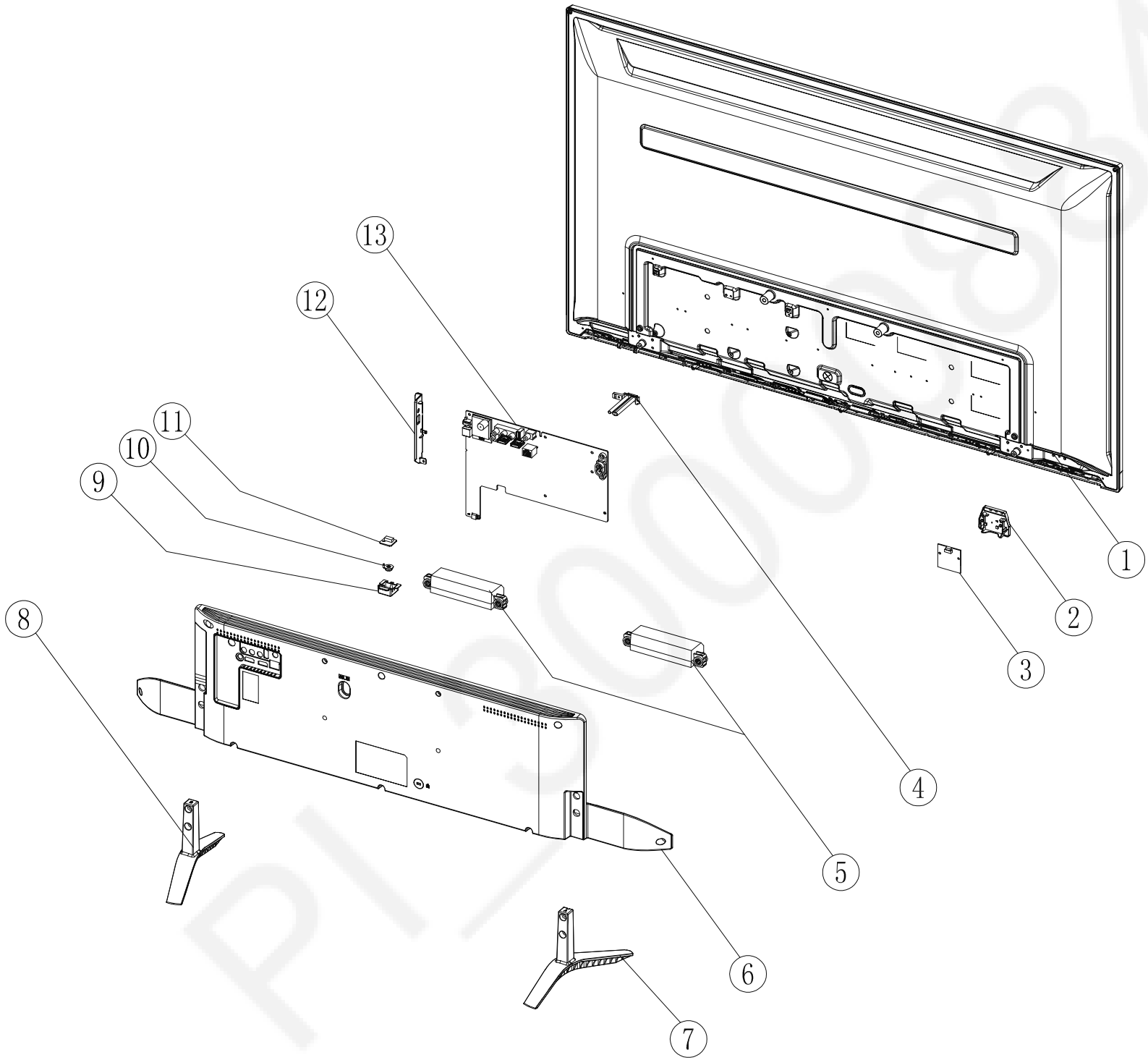
431R-NF8200-5200	SMD COG CERAMIC CHIP CAPACITOR 82PF 50V	1	PC
431R-CF102D-T5	SMD CERAMIC CHIP CAPACITOR 0.001UF 50V +	10	PC
411Q-CA5130-2200	SMD RESISTOR 51K OHM 1/16W +/-1% (1.0*0.	1	PC
6136-080010-0600	USB SOCKET (180*D PLUG BLACK)	1	PC
6146-089110-0410	USB(AF) SOCKET H-TYPE 4 PINS (13.9*13*12	1	PC
544N-921120-0810	WAFER(M) P=2.0MM H-TYPE SINGLE ROW 8 PIN	1	PC
614P-090020-0810	NETWORK CONNECTIONS SOCKET RJ45 V-TYPE 8	1	PC
1505-M0610410-0302	HEAT SINK 2-110A# L61.2*W41.5*H5.4	1	PC
5448-921130-0420	WAFER(M) P=2.0MM V-TYPE SINGLE ROW 4 PIN	1	PC
6146-049000-0110	RF CONNECTOR (F) V-TYPE 14.2MM D=5.25MM	1	PC
6146-020100-0410	EARPHONE JACK 3.6MM H-TYPE FOR 8M70	1	PC
6153-160010-0110	RCA JACK X 1 V-TYPE BLACK H=13MM	1	PC
6136-020000-0440	EARPHONE JACK 2.5MM V-TYPE BALCK	1	PC
6153-16F010-0330	RCA JACK X 3 V-TYPE PITCH=14MM (YELLOW,W	1	PC
492W-116052-R000	CRYSTAL 16.000000MHZ HC-49U/S CL:20PF +/	1	PC
431W-BC2271-AZ90	ELECTROLYTIC CAPACITOR 220UF 16V +/-20%6	1	PC
543M-391151-0300	HOUSING 03(1.25)+ HOUSING 03(1.25)+ 150M	1	PC
26B3-03010020-BH01	SCREW B3 3*10 BLACK OXIDE HARDENESS	1	PC
0404-11284105-1103	POLY BAG 1160*840*0.05MM WITH PRINTING	1	PC
0404-23133105-3103	POLY BAG 230*330*0.05MM WITH PRINTING	1	PC
26A3-03010020-BH06	SCREW A3 3*10 BLACK HARDEN	3	PC
26AM-03006021-B004	SCREW AM3*6 BLACK W/O NYLOK	6	PC
1011-43E2X000-2103	WIFI BKT HIPS(94-V0) DG001 43E2X000-PA 4	1	PC
0301-43E2X000-2101	EPS(T-B) FOR 43E2	1	ST
0301-43E2XS00-2101	EPS(L-R) FOR 43E2	1	ST
26PM-03008001-NS01	PM 3 X 8 WITH PLAN WASHER AND SPRING WAS	6	PC
1007-CPE2A000-2102	F.LENS PC+PC CPE2A000-PA 32PE2A	1	PC
1002-43E2X006-21	B.CAB HIPS(94-V0) DG001 43E2X000-PA6 7N0	1	PC
1005-40T3XS00-2103	SIDE AV BKT HIPS(94-V0) DG001 40T3XS00-P	1	PC
1023-CT200000-2102	CTRL.KEY ABS HUITONG ABS-3070H NB001 CT2	1	PC
1023-CT200110-2102	CTRL.KEY COVER PC HNB001 CT200100-PA 32T	1	PC
1320-L7201005-0109	ADHESIVED TAPE CUSHION 720X10X0.5MM	1	PC
0201-43E2XF00-2101	EPE(FRONT) 770*340*21MM FOR 43E2	1	PC
0100-43E2X000-0002	CARTON BOX FOR 43E2-OVERSEA NO PRINTING	1	PC
0773-43E2X000-0002	INSTRUCTION BOOKLET FOR 43E2 OVERSEAS NO	1	PC
0601-43E2X000-0002	BACK LABEL FOR 43E2 NO ANYTHING	1	PC
3909R04700E00-0140	ADHESIVED TAPE 70MM*50M (TRANSPARENT)	3	M
1523R821800-0421	STAPLE (GOLD) (ROHS)	6	PC
0404-60080005-3103	POLY BAG 60*80*0.05MM WITH PRINTING	1	PC
1020-43E2XL10-2104	BASE(L) ABS HNB001 43E2XLR1-21 XIAO MY	1	PC
1020-43E2XR10-2104	BASE(R) ABS HNB001 43E2XR10-PA XIAO MY	1	PC
26PM-04020021-BN04	SCREW PM4*20 BLACK WITH PLAN WASHER AND	4	PC
0700-32E2X100-0003	INSTRUCTION PAGE FOR XIAO MY BASE 32E2	1	PC
4143-CA1030-T0	SMD RESISTOR 10K OHM 1/10W +/-5% (1.6x0.	3	PC
4143-CA1040-T0	SMD RESISTOR 100K OHM 1/10W +/-5% (1.6x0	5	PC
4143-CA2030-T0	SMD RESISTOR 20K OHM 1/10W +/-5% (1.6x0.	1	PC
4143-CA2040-T0	SMD RESISTOR 200K OHM 1/10W +/-5% (0603	1	PC

4143-CA5130-T0	SMD RESISTOR 51K OHM 1/10W +/-5% (1.6x0.	1	PC
4143-CB1000-T0	SMD RESISTOR 10 OHM 1/8W +/-5% (0805 TYP	2	PC
4143-CB1010-T0	SMD RESISTOR 100 OHM 1/8W +/-5% (0805 TY	1	PC
4143-CB1020-T0	SMD RESISTOR 1K OHM 1/8W +/-5% (0805 TYP	4	PC
4143-CB1030-T1	SMD RESISTOR 10K OHM 1/8W +/-1% (0805 TY	7	PC
4143-CB1230-2400	SMD RESISTOR 12K OHM 1/8W +/-1% (2.0 X 1	1	PC
4143-CB2240-T0	SMD RESISTOR 220K OHM 1/8W +/-5% (2X1.25	2	PC
4143-CB3030-T0	SMD RESISTOR 30K OHM 1/8W +/-5% (2X1.25M	1	PC
4143-CB3300-T0	SMD RESISTOR 33 OHM 1/8W +/-5% (0805 TYP	1	PC
4143-CB3930-2400	SMD RESISTOR 39K OHM 1/8W +/-1% (2.0*1.2	1	PC
4143-CB4710-T0	SMD RESISTOR 470 OHM 1/8W +/-5% (0805 TY	1	PC
4143-CB4720-T0	SMD RESISTOR 4.7K OHM 1/8W +/-5% (0805 T	3	PC
4143-CD0470-T1	SMD RESISTOR 4.7 OHM 1/4W +/-1% (1206: 3.	2	PC
411Q-CD1000-00	SMD RESISTOR 10 OHM 1/4W +/-5% (1206 TYP	1	PC
4143-CD1830-T1	SMD RESISTOR 18K 1/4W +/-1% (1206 3.2 X	5	PC
4143-CD2030-T0	SMD RESISTOR 20K OHM 1/4W +/-5% (3.2 X 1	12	PC
411Q-CD20A0-2500	SMD RESISTOR 2 OHM 1/4W +/-1% (3.2*1.6MM	1	PC
4143-CD30A0-2500	SMD RESISTOR 3 OHM ±1% 1/4W 3216 TAPE TY	3	PC
4143-CD3300-T0	SMD RESISTOR 33 OHM 1/4W +/-5% (3.2 X 1.	8	PC
4143-CD47B0-2500	SMD RESISTOR 0R47 OHM 1/4W +/-1% (3.1 X1	3	PC
4143-CD5100-T0	SMD RESISTOR 51 OHM 1/4W +/-5% (1206 TYP	3	PC
4143-CD1550-2500	SMD RESISTOR 1M5 OHM 1/4W +/-1% (3.2*1.6	4	PC
433V-CF102D-T1	SMD CERAMIC CHIP CAPACITOR 0.001UF 50V +	4	PC
433V-CF103D-T1	SMD CERAMIC CHIP CAPACITOR 0.01UF 50V +/	2	PC
433V-CF104D-T1	SMD X7R CERAMIC CHIP CAPACITOR 0.1UF 50V	5	PC
4311-CF1050-7400	SMD X7R CERAMIC CHIP CAP. 1UF 50V +/-10%	3	PC
4393-CF224D-T1	SMD CERAMIC CHIP CAPACITOR 0.22UF 50V +/	1	PC
4393-CH1040-7400	SMD X7R CERAMIC CHIP CAP.100NF 100V +/-1	3	PC
433V-NF221C-T1	SMD NPO CERAMIC CHIP CAPACITOR 220PF 50V	1	PC
433V-NF471C-T1	SMD NPO CERAMIC CHIP CAPACITOR 470PF 50V	1	PC
451P-210150-0S00	SMD SCHOTTKY DIODE 150V/10A TO-252 TAPE	1	PC
4522-2M7000-0S00	SMD SCHOTTKY DIODE 1000V/1A SMA TAPE TYP	2	PC
4522-2US1J0-0S10	SMD DIODE 600V/1A 4.3*2.6mm SMA TAPE TYP	1	PC
4522-400150-T1	SMD ZENER DIODE 15V 1/2W TAPE TYPE	1	PC
4522-400220-S5	SMD ZENER DIODE 22V 1/2W +/-5% ZMM22 3.5	1	PC
4522-400240-S5	SMD ZENER DIODE 24V 1/2W +/-5% ZMM24 3.5	1	PC
4522-401530-3S00	SMD ZENER DIODE 15V +/-2% 500MW SOD-123	1	PC
4522-402730-3S00	SMD ZENER DIODE 27V +/-2% 500mW SOD-123	2	PC
4522-404730-3S00	SMD ZENER DIODE 47V +/-2% 500MW SOD-123	1	PC
4522-431051-T0	SMD ZENER DIODE 5V1 1/4W +/-5% 2 PINS (T	2	PC
451F-220200-0S10	SMD SCHOTTKY RECTIFIER DIODE HBR20200 20	1	PC
4606-T44010-S0	SMD TRANSISTOR MMBT4401LT1 NPN SILICON S	1	PC
4622-MBTA06-0S00	SMD TRANSISTOR MMBTA06 80V 500mA SOT-23	2	PC
4648-P15150-0S00	SMD TRANSISTOR AP15T15GH-HF (44.6W 150V/1	1	PC
476K-Z99022-0160	SMD IC OZ9902DGN-A-0-TR O2MICRO (LED DRI	1	PC
4776-A8A000-0080	SMD IC FA8A00N FUJI (PWM CONTROL) SOP-8	1	PC
47B6-A43101-0030	SMD IC AS431AHM/TR-LF A1(ADJUSTABLE PREC	1	PC

4876-S11000-ASJ0	SMD POWER INDUCTORS 10UH ±20% 770mA 3.0*	1	PC
4143-CB5600-T0	SMD RESISTOR 56 OHM 1/8W +/-5% (2 X 1.25	1	PC
4628-J12N65-0S00	SMD TRANSISTOR JCS12N65T (650V/12A 250W	1	PC
4300-CF473D-T1	SMD CERAMIC CHIP CAPACITOR 0.047UF 50V +	1	PC
4144-CB2230-T0	SMD RESISTOR 22K OHM 1/8W +/-5% 2012 TAP	1	PC
4348-AR1010-7T00	CER CAP 100PF 1KV +/-10% P=5MM TAPE	2	PC
434B-AR221D-T0	CERAMIC CAPACITOR 220PF 1KV +/-10%(TAPET	2	PC
4348-AR471D-T0	CERAMIC CAPACITOR 470PF 1KV +/-10% (TAPE	1	PC
432R-BD4773-AT20	ELEC. CAP. 470UF 25V ±20% 10*12.5MM 105*	1	PC
431W-BF1061-AT10	ELEC.CAP. 10UF 50V +/-20% 105*C 6.3*7MM	2	PC
431W-BF4763-AT10	ELEC.CAP. 47UF 50V +/-20% 105*C HFLZ 6.3	1	PC
6014-D3121A-0T00	FUSE 3.15A/250V VDE/CQC/UL 8.4*7.2MM SQU	1	PC
4143-DH1040-5T00	METAL OXIDE FILM RESISTOR 100K OHM 2W +/	1	PC
4100-DH14B0-5T00	METAL OXIDE FILM RES. 0R14 OHM 2W ±5% TA	1	PC
4134-NJ50A0-AZ00	NTC THERMISTOR RES. 5 OHM +/-20% 5A (P=7	1	PC
412D-L68166-7Q10	VARISTOR 680V ±10% I(MAX)=6000A D=14MM (	1	PC
431W-BD1083-AL00	ELEC. CAP. 1000UF 25V +/-20% 105*C HFLZ	2	PC
433T-BG4773-ALA0	ELEC. CAP. 470UF 63V ±20% 12.5*20MM 105*	1	PC
433X-EP3920-5ZB0	M.P-P.F.CAP. 3900PF 630V +/-5% (P=7.5MM,	1	PC
4522-120080-T0	NORMAL RECTIFIER DIODE 2A/800V (TAPE TYP	4	PC
4522-154080-0Q60	NORMAL RECTIFIER DIODE 1000V/3A DO-27 (F	2	PC
4522-2SF56A-0Q80	HIGH SPEED RECTIFIER DIODE 5A/400V R-6 (	1	PC
47AH-P817C0-04	IC BPC-817C BRIGHT LED (PHOTOCOUPLER))	1	PC
483W-0270B0-DZX0	CHOKE COIL 0U7H +/-30% T=6.5 H-TYPE (SHO	1	PC
483W-029000-7Z10	CHOKE COIL 90UH +/-10% 2A T=43.5 V-TYPE(	1	PC
4846-061010-Z000	AC LINE FILTER 100uH X 2(MIN) 4PINS ROUN	1	PC
5101-06EQ34-0020	SWITCHING TRANSFORMER BCK-33-139T 400uH	1	PC
541E-921120-0610	WAFER(M) P=2.0MM H-TYPE SINGLE ROW 6 PIN	1	PC
5448-921130-0220	WAFER(M) P=2.0MM V-TYPE SINGLE ROW 2 PIN	1	PC
6153-120000-02B0	AC POWER SOCKET 2 TERMINAL V-TYPE BLACK	1	PC
6403-020501-T0	FERRITE BEAD W/JUMPER Z=48 OHM 100MHZ 3A	3	PC
433Z-S21010-7Z20	SAFETY CERAMIC CAP. 100PF AC250V +/-10%(	3	PC
431D-F32240-7ZE0	AC CAPACITOR 220nF AC275V ±10% (P=15MM,L	2	PC
4348-S54710-7Z20	SAFETY CERAMIC CAP. 470PF AC400V +/-10%(	3	PC
483W-061830-Z010	AC LINE FILTER 18MH X 2(MIN) TOLERANCE≤0	1	PC
5448-921130-0230	WAFER(M) P=2.5MM V-TYPE SINGLE ROW 2 PIN	1	PC
4380-BN6861-A050	ELEC. CAP. 68UF 450V +/-20% 105*C 12.5*5	2	PC
432L-BI4763-AL00	ELEC. CAP. 47UF 160V ±20% 105*C HFLZ 10*	2	PC
LCM0-R430LF-K8	CKD LCM ASSEMBLY FOR 43PE2A RDL430FY(LD0	1	ST
BL00-R430LF-K8	CKD B/L ASSEMBLY FOR 43PE2A RDL430FY(LD0	1	ST
NC00-R430LF-K4	CKD NO COMMON ASSEMBLY FOR 43PE2 RDL430F	1	ST
ELED-R430LF-K1	CKD LED ASSEMBLY FOR 43PE2A RDL430FY(LD0	1	ST
1001-43E2X006-2201	F.CAB ABS+10GF TJ008 43E2X000-PC6 43E2-A	1	PC
MD00-23SA00-50	(TI) INSIDE WIFI ASS'Y 7N06T-32TE3	1	ST
1519-40E3X000-01	CONNECT FOR SUPPORT FOR B.CAB 40E3	2	PC
1280-R4301300-0110	MYLAR FOR 43E3 X-BOARD R	1	PC
1280-R4301301-0110	MYLAR FOR 43E3 X-BOARD L	1	PC

1305-L0554001-0112	BLACK ACETATE CLOTH 55*40*0.18MM (AC323B)	1	PC
1320-R4303300-0112	FU SPONGE ON DOWN FRAME 43E3 MODULE	2	PC
1320-R4304501-0112	FU SPONGE FOR 43U67 MODULE	2	PC
1509-R4300800-0225	DOWN BEZEL FOR 43TE3B CKD MODULE	1	PC
1810-06003000-0004	ELECTRIC FABRIC W6*L30*T0.085MM MODULE	4	PC
26SM-02506020-NH04	SCREW M2.5*6.0 (D=6, T=0.6)	1	PC
26SM-02508020-NH04	SCREW SM2.5*8 1018 PLUS HARD	7	PC
26TT-03008020-BH01	SCREW TT3*8 BLACK HARDEN	2	PC
5926-F25130-5000	FFC 50 PINS P=0.5MM L=254M(29+200+25MM)	2	PC
7702-143000-2000	43" LG PCBI LC430DUY-SHA1 1920*1080 W/SE	1	PC
7702-343000-0000	43" LG T-CON LC430DUY-SHA1	1	PC
1017-R4301500-2116	MID FRAME PC+GF10 NB006 R4301500-PA 43PE	1	PC
1017-R4301600-0116	PLASTIC BUCKLE PP PW004 R4301600-PA 43E3	4	PC
1017-R4301700-0116	SUPPORT BKT PC TRANSPARENT R4301700-PA 4	2	PC
1320-R4300400-0112	SPONGE TAPE (5u KE951)0.5*2.5*532MM FOR>	2	PC
1320-R4300500-0112	SPONGE TAPE (5u KE951)0.5*2.5*952MM FOR>	2	PC
1320-R4302500-0112	CUSHION TAPE-I(PE) FOR 43E3	1	PC
1320-R4302800-0112	EVA CUSHION FOR 43E3 MODULE	4	PC
1320-R4304700-0112	CUSHION TAPE(PE) FOR 43U5	1	PC
1543-R4300409-0225	REAR COVER FOR 43PE2A MODULE	1	PC
26SM-03001820-ZH04	SCREW SM 3*1.8MM HARDEN	24	PC
26SM-03003020-NH04	SCREW SM3*3 1018 PLUS HARD	6	PC
3909-12040B10-0107	DOUBLE ADHESIVED TAPE JUSTAPE R15-NS 4MM	220	CM
7732-943000-4210	43" EXCITON DOWN DIFFUSER B188VM2 FOR 43	1	PC
7734-943000-0360	43" TORAY REFLECTOR E82CK-188 FOR 43E3 C	1	PC
7737-943000-3110	43" SANXING DIFFUSER PLATE DS2-GP55 FOR	1	PC
7752-943000-5230	43" SHINWHA PRISM-V PTM358Z 90D FOR 43E3	1	PC
7752-943000-6210	43" SHINWHA PRISM-H PTM358Z 0D FOR 43E3	1	PC
543M-E20611-0600	HOUSING 06(2.0)+ HOUSING 02*6(3.7)+ 610M	1	PC
7750-643000-R190	43" DSBJ L/B-D-R (3030 5S 1P) FOR 43PE2A	3	PC
7750-643000-L190	43" DSBJ L/B-D-L (3030 4S 1P) FOR 43PE2A	3	PC
1001R43E2X006-GKT	43E2X面壳ABS+10%玻纤原料黑色	1	PC
1508-8188E000-0233	SEAL CAN COVER FOR 8188E	1	PC
4143-CA0000-2200	SMD RESISTOR 0 OHM 1/16W +/-1% (1.0 X0.5	8	PC
4143-CA1030-T7	SMD RESISTOR 10K OHM 1/16W +/-5% (0402	4	PC
4143-CA1050-T7	SMD RESISTOR 1M OHM 1/16W +/-5% (0402 1	1	PC
4143-CA1540-5200	SMD RESISTOR 150K OHM 1/16W +/-5% (1.0 X	1	PC
4143-CA2430-2200	SMD RESISTOR 24K OHM 1/16W +/-1% (1.0*0.	1	PC
4143-CA6840-5200	SMD RESISTOR 680K OHM 1/16W +/-5% 1005	1	PC
4303-CA1060-A300	SMD CC CAP 10UF/6.3V +/-20% 1608	1	PC
4303-CC1060-7400	SMD X5R CERAMIC CHIP CAPACITOR 10UF 16V+	2	PC
4303-CF1000-3200	SMD MLCC 10PF 50V +/-2%(1.0*0.5)TAPE TYP	1	PC
4303-CF1200-3200	SMD MLCC 12PF 50V +/-2% (1.0*0.5)TAPE TY	1	PC
4303-CF12A0-K210	SMD MLCC 1P2F 50V +/-0.1PF(1.0*0.5)TAPE	3	PC
4303-CF80B0-K200	SMD MLCC P80F 50V +/-0.1PF (1.0*0.5)TAPE	1	PC
4303-NF68A0-L200	SMD COG CERAMIC CHIP CAP. 6P8F 50V ±0.25	4	PC
433V-CF1030-7200	SMD X7R CERAMIC CHIP CAP. 10NF 50V +/-10	1	PC

433V-NF101C-T5	SMD NPO CERAMIC CHIP CAPACITOR 100PF 50V	1	PC
433V-NF220C-T5	SMD NPO CERAMIC CHIP CAPACITOR 22PF 50V	3	PC
4393-CC104D-T5	SMD CERAMIC CHIP CAPACITOR 0.1UF 16V +/-	15	PC
474Z-R81880-0460	SMD IC RTL8188ETV-CG REALTEK(1T1R WLAN C	1	PC
47J5-A24080-0050	SMD IC APS2408ES5-ADJ CHIPOWN (STEP-DOWN	1	PC
482J-2830D0-M200	SMD RF CERAMIC INDUCTOR 3NH +/-0.3NH 100	1	PC
482J-S010C0-5220	SMD CHIP COIL 10NH +/-5% 300mA(1.0*0.5MM	2	PC
482J-S027D0-M210	SMD CHIP COIL 2N7H +/-0.3NH 300mA(1.0*0.	2	PC
482J-S147A0-AS60	SMD POWER INDUCTORS 4R7 UH ±20% 1.25A 25	1	PC
491T-140054-QS00	SMD CRYSTAL 40.000MHZ CL:15PF +/-10PPM (	1	PC
53BA-44MAC0-0000	MAC ADDRESSES FOR COMMON	1	PC
5448-99112S-0800	SMD WAFER(M) P=1.25MM H-TYPE SINGLE ROW	1	PC
5851-W81881-1P00	WIFI PCB 40*29*1.0MM FR4 OSP FOR RTL8188	1	PC



13	**********	MAIN PCBA-7N07T
12	1005-40T3XS00-21	SIDE AV BKT
11	**********	CTRL. KEY PCBA
10	1023-CT200000-21	CTRL. KEY
9	1023-CT200110-21	CTRL. KEY COVER
8	1020-43E2XR10-21	BASE(R)
7	1020-43E2XL10-21	BASE(L)
6	1002-43E2X006-21	BACK COVER
5	**********	SPEAKER
4	1007-CPE2A000-21	F. LENS
3	**********	WIFI PCB
2	1011-43E2X000-21	WIFI BKT
1	**********	PANEL

SKYWORTH MULTIMEDIA CO,.LTD

TITLE 43PE2A-7N07T-PE2A-A EXPLODE	MODEL	QTY
MATERIAL		
FINISH	PART NO.	
SCALE	DWN./DATE	
PROJECTION	CHK./DATE	
SHEET OF	APP./DATE	

Factory Manual

1 、How to enter and exit factory mode

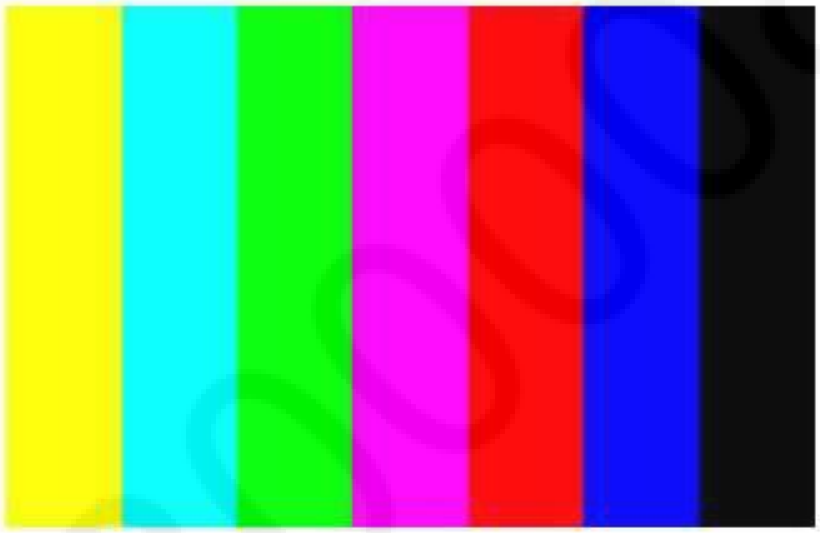
1.1.1 Press Source button, and then press digital button “3”, “1”, “9”, “5” in turns to enter the factory menu. Press ⬆ and ⬇ button to choose the item ， press OK button to enter the submenu and press ➡ button to adjust the value.

In the factory mode, press “menu” key can exit the factory mode.

2 、How to adjust White Balance

2.1 ADC ADJUST

Before adjusting, enter the channel you want to adjust and input adjust signal (YPBPR channel: 576Pand720P &100% color bar; VGA channel: 1366*768 & tessellated white and black). Select AUTO ADC, press ▶ button to auto adjust the ADC value.



100% color bar

tessellated white and black

Note: 1、The YPBPR and VGA’s Auto White Balance adjust (AUTO ADC) must be done on

the product line.

2、In YPBPR channel ,must adjust the SD and HD two modes.

2.2 W/B ADJUST

Enter factory mode, select W/B ADJUST, go to the “MODE” item to select the channel which you want to adjust then select the color temperature (Medium, Warm, Favorite,Cool). Then press ▼ Key to go to these items you want to adjust:

R Gain

G Gain

B Gain

R Offset

G Offset

B Offset

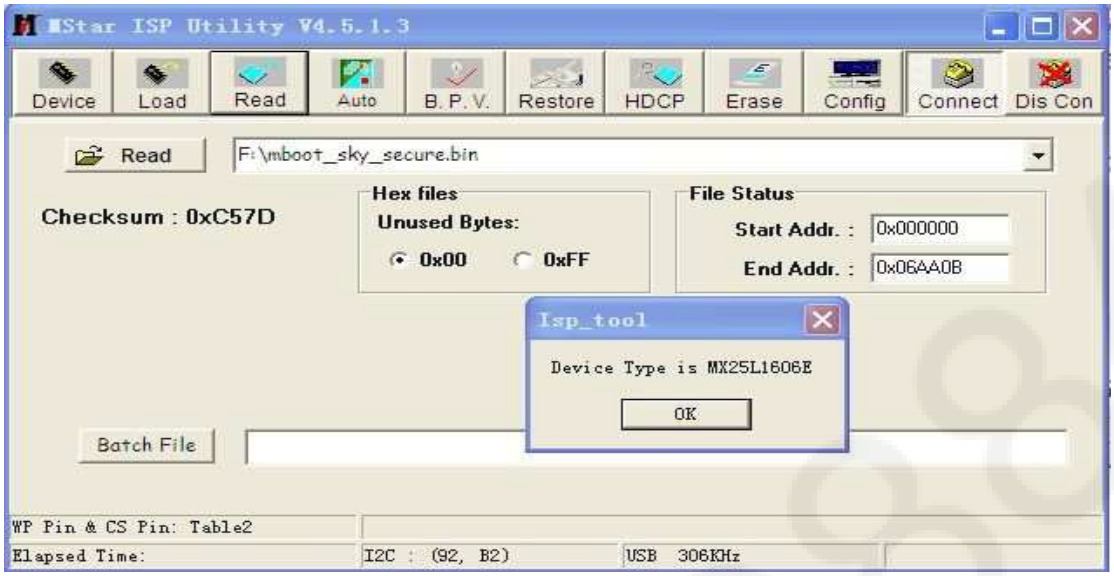
Press ◀ or ▶ key can adjust the value to the best effect.

COPY ALL : Copy there values to all source!

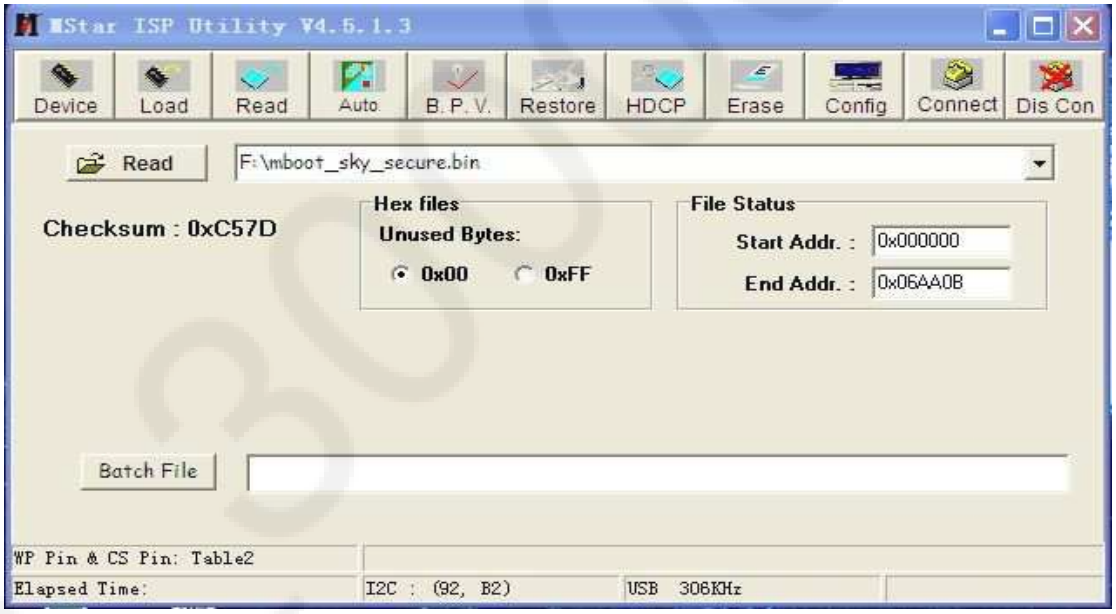
3、How to update software

3.1 Open MSTAR ISP Utility tool

3.2、Connect the tool to the device ,turn on TV .press “Connect”。



3.3、press “Read” to choose the “merge.bin” file .

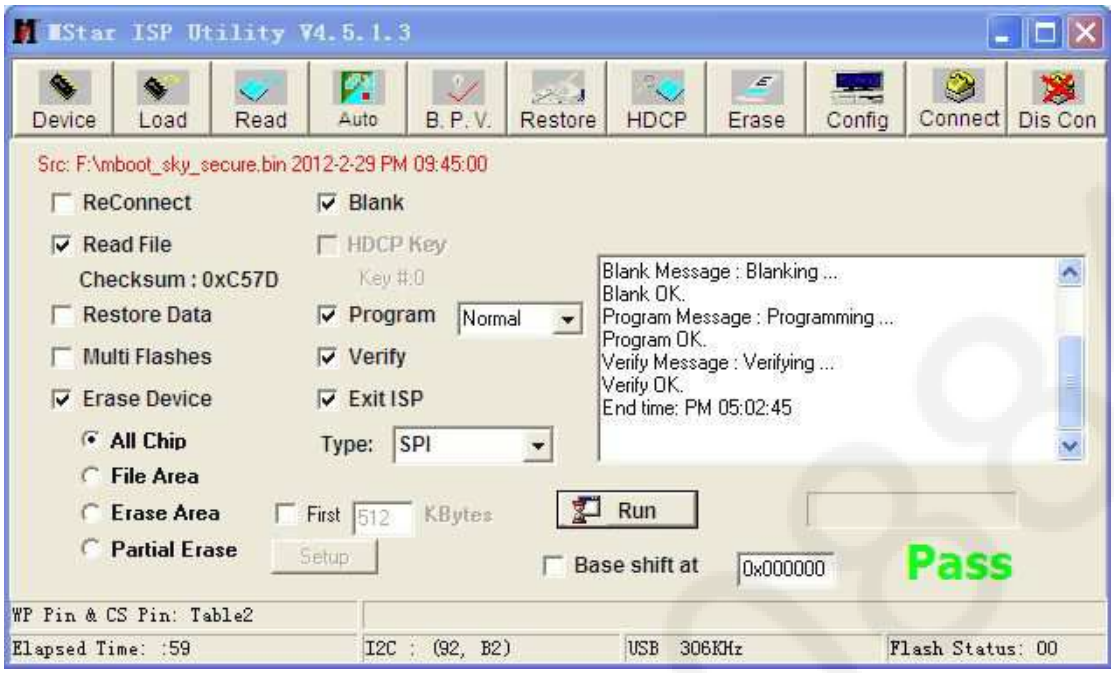


3.4、Press “Auto”, set parameter。


MStar ISP Utility V4.5.1.3
Device
Load
Read
Auto
B. P. V.
Restore
HDCP
Erase
Config
Connect
Dis Con
Src: F:\mboot_sky_secure.bin 2012-2-29 PM 09:45:00
ReConnect
Blank
Read File
HDCP Key
Checksum : 0xC57D
Key #:0
Program File Ready !!
Restore Data
Program
Normal
Multi Flashes
Verify
Erase Device
Exit ISP
All Chip
Type:
SPI
File Area
Erase Area
First
512
KBytes
Run
Partial Erase
Setup
Base shift at
0x000000
WP Pin & CS Pin: Table2
Elapsed Time:
I2C : (92, B2)
USB 306KHz

3.5、press “Run”。


MStar ISP Utility V4.5.1.3
Device
Load
Read
Auto
B. P. V.
Restore
HDCP
Erase
Config
Connect
Dis Con
Src: F:\mboot_sky_secure.bin 2012-2-29 PM 09:45:00
ReConnect
Blank
Read File
HDCP Key
Checksum : 0xC57D
Key #:0
Start time: PM 05:01:46
Program File Ready !!
Erase Message : Erasing ...
Erase OK.
Blank Message : Blanking ...
Restore Data
Program
Normal
Multi Flashes
Verify
Erase Device
Exit ISP
All Chip
Type:
SPI
File Area
Erase Area
First
512
KBytes
Stop
Partial Erase
Setup
Base shift at
0x000000
:12
WP Pin & CS Pin: Table2
Elapsed Time: :00
I2C : (92, B2)
USB 306KHz
Flash Status: 00



4、Update software (by USB):

Copy the new software (name by "MERGE.bin") to the root directory of USB drive. Plug the drive to the USB socket (if there are two USB socket, make sure you use the socket 1). Enter MENU and select SETUP item , select "Software Upgrade(USB)" item and press OK button to begin update. TV set will restart when finish. Note, you need to restart the TV set again by AC power.

Note: We suggest you need to do "**Restore Default**" after software update.