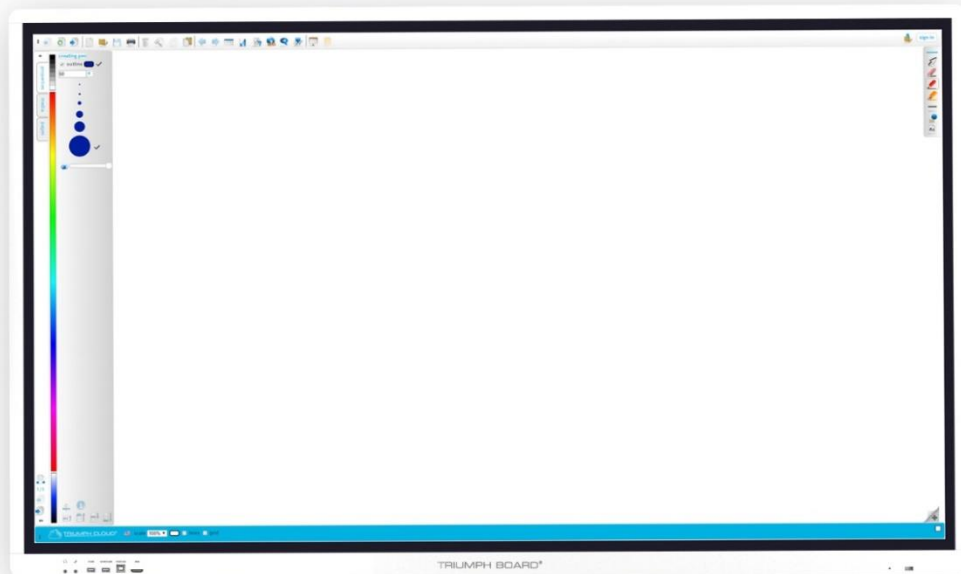


Service Manual

Interactive Flat Panel Series 65"

EAN: 8592580112355 / 8592580113222



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1.Safety Precautions

Please read the following instructions carefully to avoid possible dangers during use:

- Keep the machine away from rain, damp or direct sunlight;
- Avoid the ingress of any liquid substance into the machine;
- DO NOT place the IFP near any heat sources such as heaters or radiation sources;
- Please cut off power supply after use of the IFP;
- Power off the IFP prior to cleaning, and DO NOT use any corrosive liquid to wipe the machine surface; (TRIUMPH BOARD CLEANING PADS are recommended)
- When using the plug, be careful not to force the plug into the port. When connecting the machine, ensure that the port is free from chips, that the plug matches the port and that the direction of the plug corresponds to that of the port;
- During use, heat generated inside the machine is dissipated via the air inlets/outlets on the back of the machine. DO NOT use any other object to cover the machine; keep each air inlet and outlet unblocked so that heat generated inside the machine can be dissipated outward via the heat dissipation channel;
- This machine contains no user-serviceable components except operation software. DO NOT attempt to disassemble the machine. If the IFP needs repair, please consult the accompanying service and support information to know how to contact our authorized service providers for service. Unauthorized disassembly of the machine may cause damage to the machine; such damage is not covered under warranty.

2. Product BOM

2.1 BOM of 65" IFP

Bill of Main Materials of 65" IFP				
Document No.: Version: 3.0				
No.	Material Code	Material Name & Specification	QTY	Position
I: PCBs				
1	EAN: 8592580114564 9011-11K826-A43T5221	≥26" K8A big board 12V MSD6A828EVC (without Dolby) 7-way HDMI + 4-way USB + RJ45 port network mainboard (Asia DTMB, PWM dimming) (with optical fiber) (mechanical plug-in) (without TV function, V-by-One output) (some electronic materials are supplied by customer), Version A5 (16G)	1	Mainboard
2	EAN: 8592580114458 9012-111419-25007081	65" 250W (Model: K-250N1)	1	Power board
3	9045-1100PS-00002011	KJ OPS adapter board assembly (mechanical plug-in) (some electronic materials are supplied by customer), Version A2	1	OPS adapter board
4	EAN: 8592580114588 9014-112000-00001011	KJ_E90 series 7SW button board assembly, Version A1 KJ_75" OC_7SW keyboard assembly, Version A1	1	Keyboard
5	9032-11JE90-U0001011	KJ_E90 series USB-U adapter assembly, Version A1	1	Rear adapter board
6	EAN: 8592580114601 9046-14JE91-00001011	KJ_E91 light sensor board, Version A1 (special for technology)	1	Light sensor board
7	EAN: 8592580114618 9018-11JE93-00001011	KJ_E93-AV board, Version A1	1	Front adapter board
8	9025-112000-00012011	RS232 port adapter board assembly, Version A2	1	RS232 adapter board
9	9015-111B21-32012011	W22B21 remote receiver board assembly (red-green), Version A2 (back soldering)	1	Remote receiver board
10	EAN: 8592580114595 9051-11J000-CBT61041	Touch frame serial port to USB adapter board assembly (special for CVT FC series touch frame) (some electronic materials are supplied by customer)	1	Touch frame adapter board
II: cable				
1	6142-450035-04111201	450mm two-terminal (4 pins with the 4th pin lacked), RS232 adapter wire (conforming to UL requirement)	1	RS232 adapter connecting cable
2	6130-050014-61461001	500mm 19pin black HDMI signal line (UL-certified) (technology)	1	HDMI cable
3	6140-550214-06112301	550/500mm three-terminal wire, 6pin-PHS2.0, 5pin-PHS2.0, DC plug	1	Power board to OPS connecting cable

4	6140-75000A-51001203	750mm two-terminal V-BY-ONE cable (51pin to 51in)	1	V-BY-ONE cable
Pin socket assembly				
1	EAN: 8592580114649 6254-250010-13310001	250VAC horizontal three-pin power socket	1	Power socket
2	EAN: 8592580114632 6264-250008-13210001	TV-5 8/128A 250VAG 4-pin rocker power switch	1	Power switch
Speaker assembly				
1	EAN: 8592580114625 7711-A88682-32101011	8Ω 20W box speaker (L150×W40×D50mm) with sponge cushion, special for LED TV	2	Speaker
III: Structural Parts				
Plastics				
1	7034-420L21-40001101	Remote receiver (PC 50% transparent tawny)	1	Remote reception window
2	7030-75E90K-A6111101	Grey plastic torsion (7 keys)	1	plastic torsion
Glass				
1	74B0-551251-72204023	Single surface spraying AG tempered glass (1251.3x722.1x4 mm, C5) (black silkscreen print 1211.6x682.4)	1	Touch frame glass
Metals				
1	71Y1-65E89K-A3180001	65E89K-C2 White aluminum face frame assembly (TRIUMPH BOARD logo)	1	Metal face frame assembly
2	71Y2-65E89K-A6140001	65E89K-C2 rear shell of gray sheet metal (TRIUMPH BOARD)	1	Metal rear shell
Screen assembly				
1	EAN: 8592580114540 7422-650LGK-3I5A7361	65" TFT KTC K650WD7-LD450A1 LED backlight screen (RGB) (12V+51pin+UHD+10bit/60Hz) (structure:9*18, electrical:6*27/500mA) aluminum face frame of natural color (supplied by customer) (back panel with handle: 20161228)	1	Panel
2	EAN: 8592580114557 74C1-650TTC-37000011	65"TN6532-AWSK0 IR touch frame (ture 32-point) (PCBA) (serial) (without glass OC) (Timelink)	1	Touch frame
IV: Packaging				
1	EAN: 8592580114281 7601-11A132-01110003	White multimedia neutral remote control (TRIUMPH BOARD) (full matte) for smart digital-analog TV, RC-A13-CH-03	1	Remote control
2	EAN: 8592580113949 7928-PEN007-51010021	White with magnetic stylus pen, 7mm	2	Stylus pen

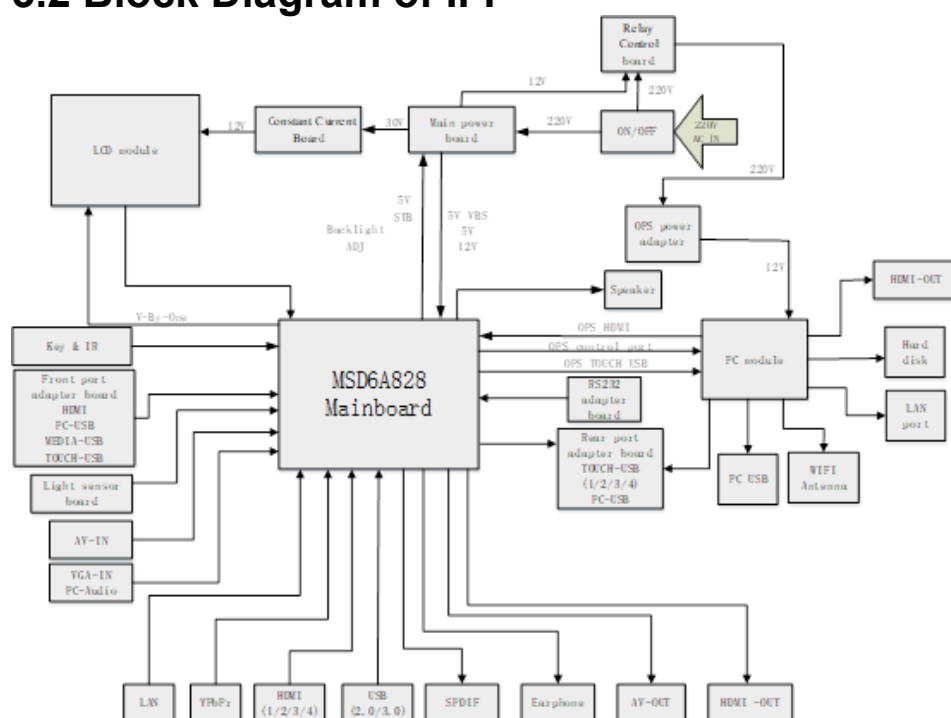
3. Product Specification

3.1 Machine Specification

Supported signal ports and description (video input)		AV input	Input impedance: 75Ω; Signal level: 1 ± 0.3 Vp-p; Audio level (L/R): 0.2-2Vrms; Video systems: PAL, NTSC, SECAM
			RCA (yellow, white, red) terminal
		YPbPr	Input impedance: 75Ω; Signal level (Y, Pb/Cb and Pr/Cr): Y: 1 ± 0.3 Vp-p, Pb/Pr (Cb/Cr): 0.7 ± 0.3 Vp-p; Audio level (L/R): 0.2-2Vrms; Max. resolution: 1080P
			RCA (green, blue, red) terminal
		PC	Input impedance: 75Ω; Signal level: 0.7 ± 0.15Vp-p; Audio level (L/R): 0.2-2Vrms; Max. resolution: 1080P@60Hz
			15pin VGA socket D-Sub
		HDMI	Max resolution: 4K*2K@60Hz
			HDMI 19-pin SMT horizontal socket
		USB	Support USB flash drive, USB mobile hard drive (if the load exceeds 500mA, a power supply should be additionally equipped by user), USB mouse and keyboard, etc.
			USB2.0: 4-pin USB horizontal socket USB3.0: 9-pin USB
		RJ45	10M/100Mbps
		SPDIF	Max. transmission speed: 16Mbps
			Optical fiber terminal
Power supply		Input power	SB5V; normal power supply mode
			PM12V/5V; controllable mode

		Drive-screen voltage	5V/12V optional (12V drive-screen voltage for L111; 5V drive-screen voltage for L110)
		USB power management	The supply voltage does not exceed 5V; the load current does not exceed 500mA
		Main power management	The standby current of mainboard does not exceed 30mA
Others		Power amplifier	2X10W (8Ω) THD+N<10% @1KHz;
		Speaker output	(Supply voltage: 12V; audio input: 0.5 Vrms)
		Key control	Standby, Menu, Vol-, Vol+, CH-, CH+, Gesture ON/OFF...
		LED indicator	The LED light is lit in green during normal operation, and in red during standby
		OSD language	English (other languages can be added as required)

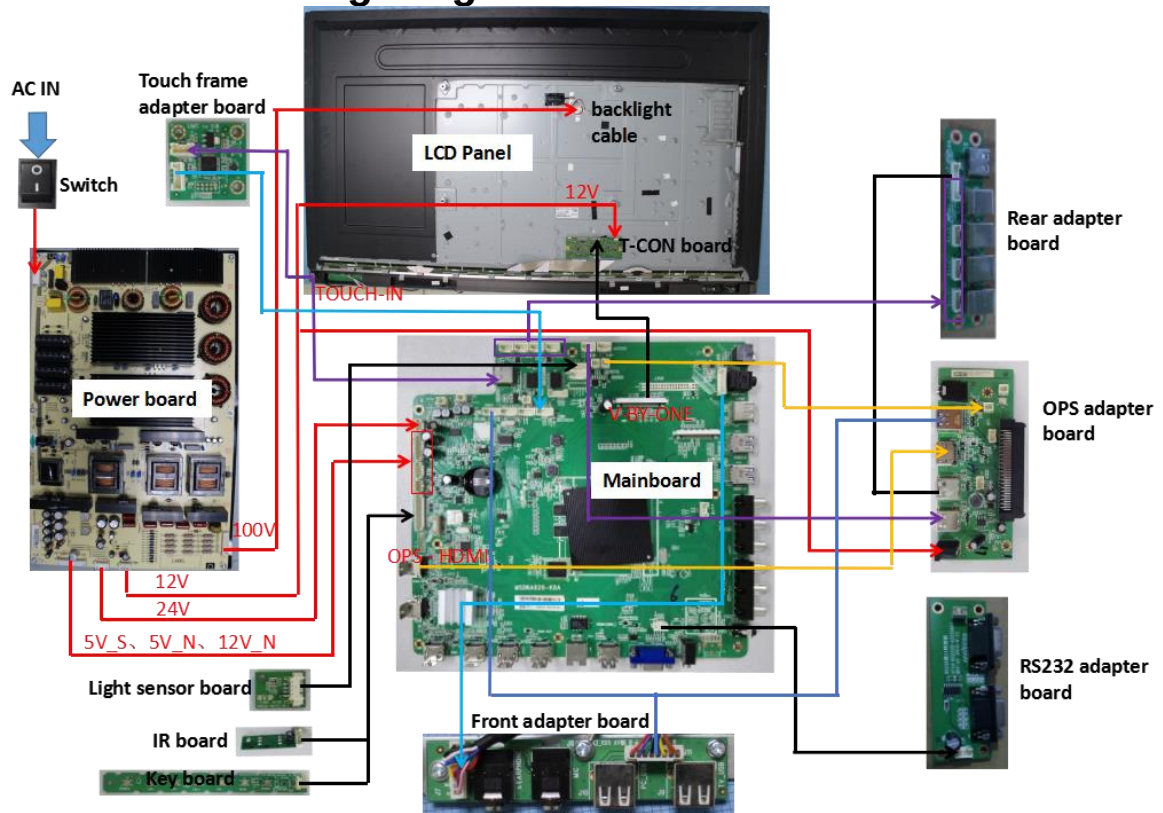
3.2 Block Diagram of IFP



- MSD6A828 signal board: Controls signals from/to all output and input ports, effectively decodes input audio/video signals, and send V-by-One signals to T-CON board, thus to allow control of core chassis functions;
- Main power board: Supply voltage to 6A828 main board, speaker;
- 60W Power Adapter: supply power for PC modules
- Relay Control board: control OPS power switch
- Constant Current Board: supply power for backlight
- LCD module: Display pictures;
- IR touch frame: Realize touch function;
- Front port adapter board: Front extended OPS PC-USB port, front extended HDMI port, front extended Touch-USB port, front extended MEDIA-USB port, extended MIC port, extended headset port;
- Rear port adapter board: Extended OPS PC-USB port, rear extended Touch-USB port;
- RS232 adapter board: uses the standard DB9 RS232 port, realizing RS232 remote control;

- PC module: Built-in OPS PC module;
- Power switch (ON/OFF): Main power switch of product;
- Light sensor board: Acquire the value of ambient light and send it to the mainboard;
- Touch frame serial port adapter board: Convert serial port signals to USB signals to provide touch signals for Android mainboard;
- IR board: Receive remote control signals from the remote control and send them to the mainboard;
- Key board: Acquire button signals and send them to the mainboard;
- OPS adapter board: OPS port to HDMI port, USB port and power port.

3.3 IFP Internal Wiring Diagram



3.4 K-250N1 Power Board (65")

3.4.1 Picture of K-250N1 Power Board



K-250N1 is a multi-output power board with the total output power of 210W; it outputs voltages of +5VSB, +5V, +12V and +24V; also, it is equipped with a short-circuit/over-current/over-voltage protection circuit.

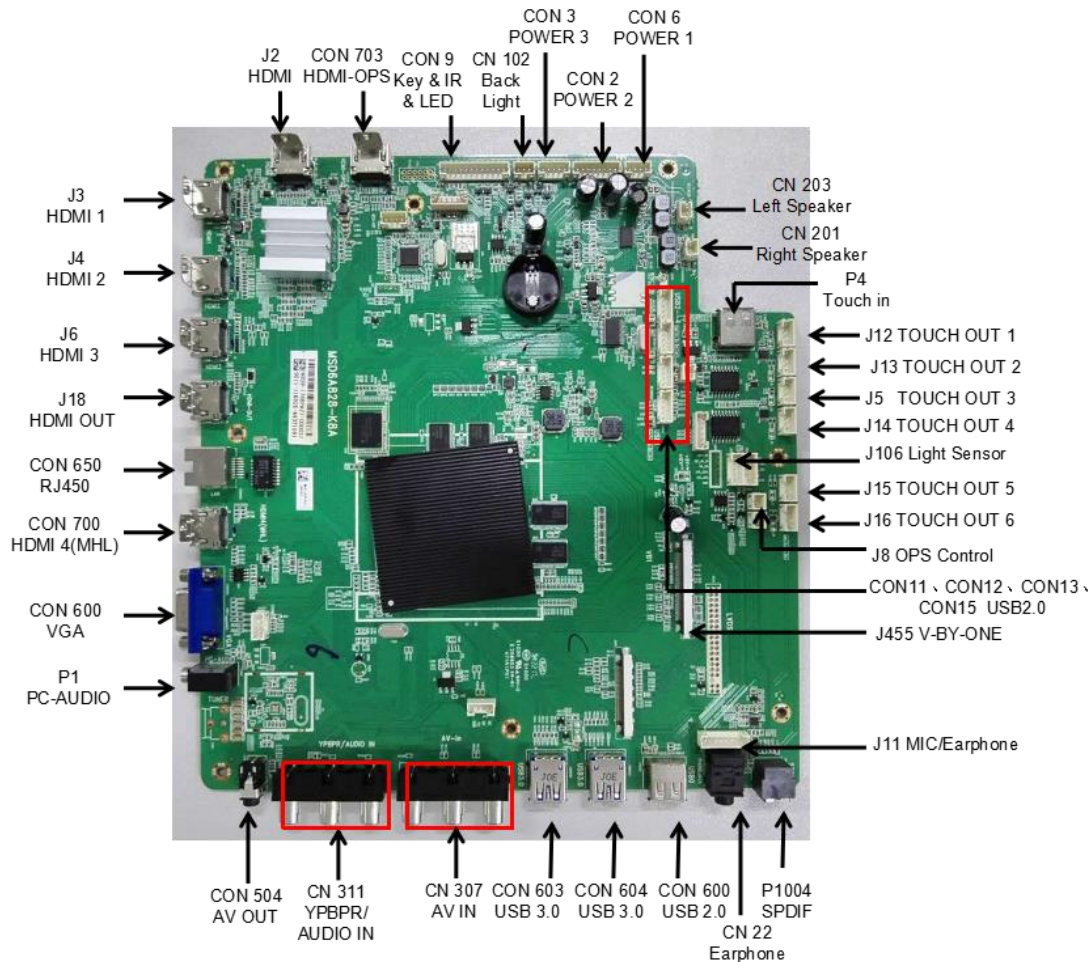
3.4.2 Definition of Power Board Socket Pins:

Socket	Pin	Definition	Function
CON2/CN5	1,2,3,4	+24V or +30V	+24VDC output
	5,6,7,8	GND	+24VDC return
CON3(NC)	3,4	GND	+24VDC return
	1,2	+24V or +30V	+24VDC output
CON4	1,2	GND	+5V +5VSB +12VDC RETURN
	3,4	+5V	+5VDC output

	5	PS	SMPS ON/OFF CONTROL(ON=HIGH)
	6	+5VSB	STANDBY (+5V DC) output
	7,8	+5V	+5VDC output
	9,10,11	GND	+5V +5VSB +12VDC RETURN
	12,13	+12V	+12VDC OUTPUT
CON1	1	AC-L	AC input line
	2	NC	NC
	3	AC-N	AC input nature

3.5 Mainboard Parameters

3.5.1 Picture of MSD6A828 Mainboard



3.5.2 Supported Formats

➤ Formats supported by HDMI

Resolution	Aspect Ratio	Field Frequency
640×480	4:03	60Hz
720×480	4:03	60Hz
720×480	16:09	60Hz
1280×720P	16:09	60Hz
1920×1080i	16:09	60Hz
1920×1080P	16:09	60Hz
3840×2160	16:09	30Hz
3840×2160	16:09	60Hz

Remark: Only the HDMI4 port can achieve the resolution of 3840x2160@60Hz; other HDMI ports can only achieve up to 3840x2160@30Hz.

➤ Formats supported by USB mobile storage device (picture, movie, music)

File Type	Supported File Formats	File Name Suffixes
Image	JPEG, BMP, PNG	.jpg\ .bmp\ .png
Video	MPEG1, MPEG2, MPEG4, H264, RM, RMVB, MOV, MJPEG, VC1, DivXFLV	.avi\ .mpg\ .dat\ .vob\ .div\ .mov\ .mkv\ .rm\ .rmvb\ .mp4\ .mjpeg\ .ts\ .trp\ .wmv\ .asf\ .flv
Audio	MP3, M4A (AAC)	.mp3\ .m4a

3.5.3 Definition of Mainboard Ports

➤ CON2(8pin/2.0mm), CON3(5pin/2.0mm): Power Connector:

NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	5V_N	5V normal power supply	5	12V_N	12V normal power supply

2	5V_N	5V normal power supply	6	12V_N	12V normal power supply
3	GND	Ground	7	GND	Ground
4	GND	Ground	8	GND	Ground

NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	5V_S	5V normal power supply	4	GND	Ground
2	5V_S	5V normal power supply	5	Standby	Standby control (ON: $\geq 3V$; OFF: $\leq 1V$)
3	GND	Ground			

➤ CN102 (3pin/2.0mm): Backlight connector

NO.	SYMBOL	DESCRIPTION			
1	ADJ	The backlight adjustment output pin			
2	ON/OFF	Backlight ON/OFF control for panel, ON: +5V; OFF: 0V			
3	GND	Ground			

IR & key connector; position: CON9 (12pin/2.0mm)

NO.	SYMBOL	DESCRIPTION	NO.	SYMBOL	DESCRIPTION
1	IR_IN	IR receiver	7	NC	No Connection
2	GND	Ground	8	NC	No Connection
3	+5V_IR	Power supply for IR	9	NC	No Connection
4	IR_R	Red LED indicator	10	KEY1	Menu, Vol+, Vol-
5	IR_G	Green LED indicator	11	KEY0	Source, CH+, CH-, Power
6	GND	Ground	12	GND	Ground

➤ J452 (40pin/2.0mm): LVDS interface(60HZ)

Pin No.	SYMBOL	DESCRIPTION	Pin No.	SYMBOL	DESCRIPTION
1	GND	Ground	21	E2-	RXE2-
2	VCC	Power supply for panel	22	E2+	RXE2+
3	GND	Ground	23	E1-	RXE1-
4	VCC	Power supply for panel	24	E1+	RXE1+
5	NC	No Connection	25	E0-	RXE0-
6	VCC	Power supply for panel	26	E0+	RXE0+

7	GND	Ground	27	O4-	RXO4-
8	VCC	Power supply for panel	28	O4+	RXO4+
9	GND	Ground	29	O3-	RXO3-
10	VCC	Power supply for panel	30	O3+	RXO3+
11	GND	Ground	31	OC-	RXOC-
12	P_PWM	LVDS_CTL	32	OC+	RXOC+
13	GND	GROUND	33	O2-	RXO2-
14	GND	GROUND	34	O2+	RXO2+
15	E4-	RXE4-	35	O1-	RXO1-
16	E4+	RXE4+	36	O1+	RXO1+
17	E3-	RXE3-	37	O0-	RXO0-
18	E3+	RXE3+	38	O0+	RXO0+
19	EC-	RXEC-	39	GND	GROUND
20	EC+	RXEC+	40	GND	GROUND

➤ J455 (51pin/2.0mm) (60HZ): V-by-One connector

Pin No.	SYMBOL	DESCRIPTION	Pin No.	SYMBOL	DESCRIPTION
1	GND	Ground	27	HTPDN	Hot plug detect
2	Rx7p	V-By-One HS Data 0LANE 7	28	NC	NC
3	Rx7n	V-By-One HS Data 0LANE 7	29	LR_SYNC	LR_SYNC
4	GND	Ground	30	LD_EN	LD_EN
5	Rx6p	V-By-One HS Data 0LANE 6	31	3D_EN	3D_EN
6	Rx6n	V-By-One HS Data 0LANE 6	32	NC	NC
7	GND	Ground	33	I2C_SCL	I2C_SCL
8	Rx5p	V-By-One HS Data 0LANE 5	34	I2C_SDA	I2C_SDA
9	Rx5n	V-By-One HS Data 0LANE 5	35	NC	NC
10	GND	Ground	36	DATA_FORMAT1	DATA_FORMAT1
11	Rx4p	V-By-One HS Data 0LANE 4	37	DATA_FORMAT0	DATA_FORMAT0
12	Rx4n	V-By-One HS Data 0LANE 4	38	NC	NC
13	GND	Ground	39	GND	Ground
14	Rx3p	V-By-One HS Data 0LANE 3	40	GND	Ground
15	Rx3n	V-By-One HS Data 0LANE 3	41	GND	Ground
16	GND	Ground	42	GND	Ground
17	Rx2p	V-By-One HS Data 0LANE 2	43	NC	NC
18	Rx2n	V-By-One HS Data 0LANE 2	44	NC	NC

19	GND	Ground	45	VCC	Power supply +12.0V
20	Rx1p	V-By-One HS Data 0LANE 1	46	VCC	Power supply +12.0V
21	Rx1n	V-By-One HS Data 0LANE 1	47	VCC	Power supply +12.0V
22	GND	Ground	48	VCC	Power supply +12.0V
23	Rx0p	V-By-One HS Data 0LANE 0	49	VCC	Power supply +12.0V
24	Rx0n	V-By-One HS Data 0LANE 0	50	VCC	Power supply +12.0V
25	GND	Ground	51	VCC	Power supply +12.0V
26	LOCKN	Lock detect			

➤ J8 (2pin/2.0mm): OPS CTRL interface

Pin No.	Name	Description	Pin No.	Name	Description
1	+		2	GND	Ground

➤ CON203 & CON201 (2pin/2.0mm, 2pin/2.0mm): Speaker interface

NO.	SYMBOL	DESCRIPTION
1	OUT-_R	Audio Right Channel -
3	OUT+_R	Audio Right Channel +

NO.	SYMBOL	DESCRIPTION
1	OUT-_L	Audio Left Channel -
2	OUT+_L	Audio Left Channel +

➤ U1004(5pi2.0mm): WIFI interface

NO.	DESCRIPTION	DESCRIPTION	NO.	DESCRIPTION	DESCRIPTION
1	VCC	+5V power Supply	4	DP	USB_D+
2	WIFI-EN	NO Connection	5	GND	GND
3	DM	USB_D-			

➤ J104 (5pin/2.0mm): I2C interface

Pin No.	Name	Description	Pin No.	Name	Description
1	VCC	3.3V	4	SDA	I2C_SDA
2	GND	GND	5	NC	NO Connection
3	SCL	I2C_SCL			

➤ J9 (2pin/2.0mm): FAN interface

Pin No.	Name	Description	Pin No.	Name	Description
1	VCC	12V	2	GND	Ground

➤ CON11, CON12, CON13, CON15 (5pin/2.0mm): USB interface

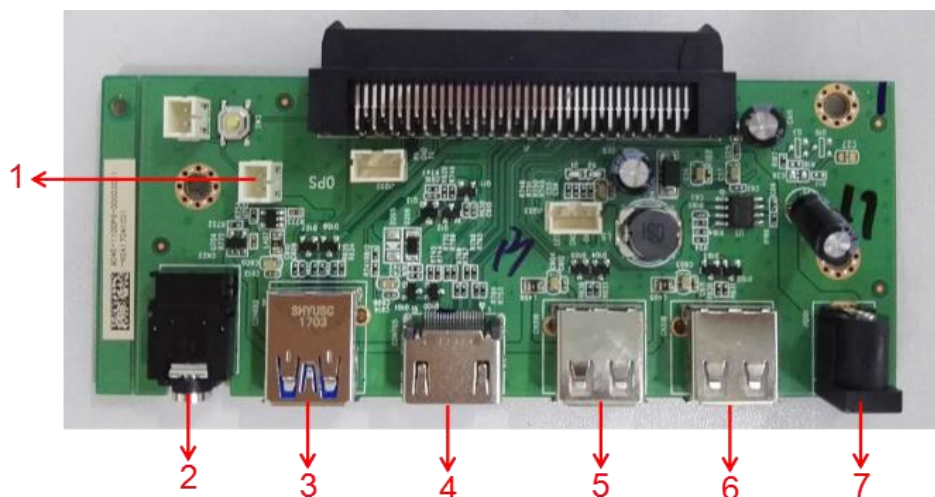
Pin No.	Name	Description	Pin No.	Name	Description
1	GND	Ground	4	VCC	5V
2	D+	D+	5	VCC	5V
3	D-	D-			

➤ J12, J13, J5, J14, J15, J16 (4pin/2.0mm): Touch USB OUT interface

Pin No.	Name	Description	Pin No.	Name	Description
1	GND	Ground	4	D+	D+
2	D-	D-	5	VCC	5V

3.6 OPS Adapter Board

3.6.1 Picture of OPS Adapter Board



Definition of OPS Adapter Board Ports

Pin	Definition
1	OPS control
2	HEADSET OUT
3	USB3.0
4	HDMI OUT
5	USB2.0
6	USB2.0
7	DC 12V

4. Disassembly Steps

4.1 Tool Preparation

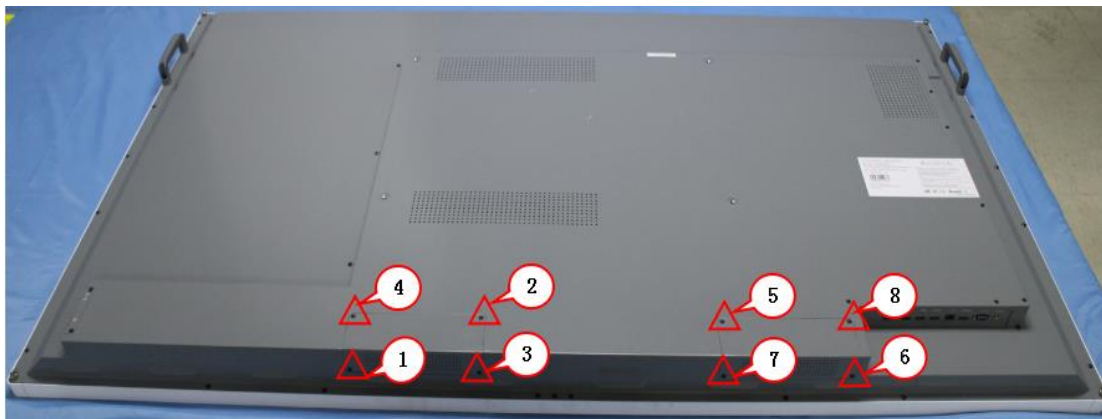
Screwdriver, needle-nose pliers, slotted screwdriver (needle-nose pliers and slotted screwdriver are used in case of any stripped screw or come-off of hexagonal copper pillar).

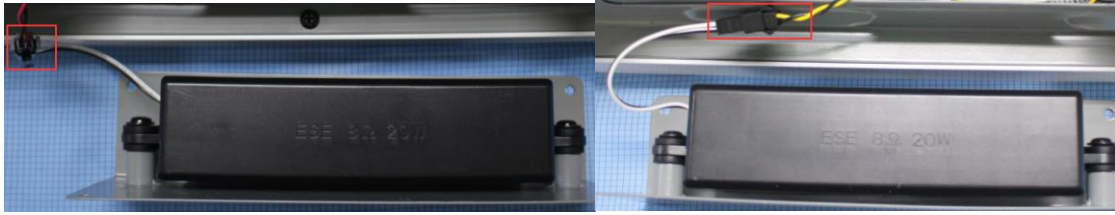
4.2 Disassembly Procedure

➤ Step 1: Remove the rear shell

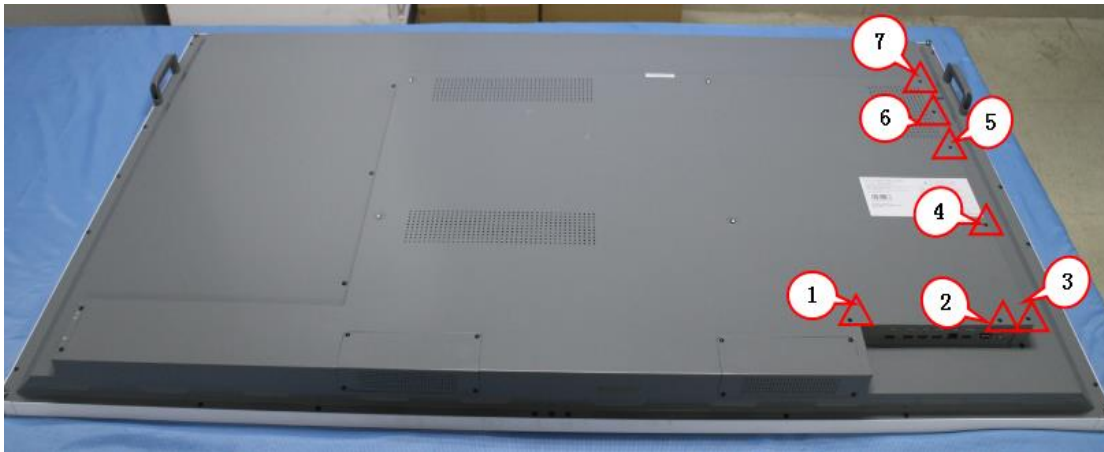
1) Remove speaker

Remove $\Phi 3 \times 6\text{mm}$ Plating black zinc mechanical screw with meson head ($\Phi 7\text{mm}$) * 8PCS, release the speaker bracket and rear shell, and then pull out the cable of speaker;





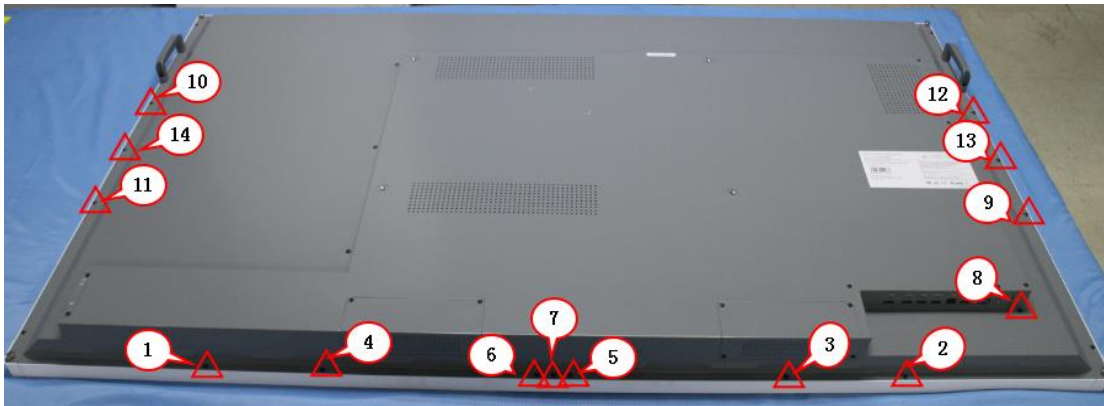
2) Remove $\Phi 3 \times 6$ mm Plating black zinc mechanical screw with meson head ($\Phi 7$ mm) *7 PCS, release the rear shell and the IO baffle;



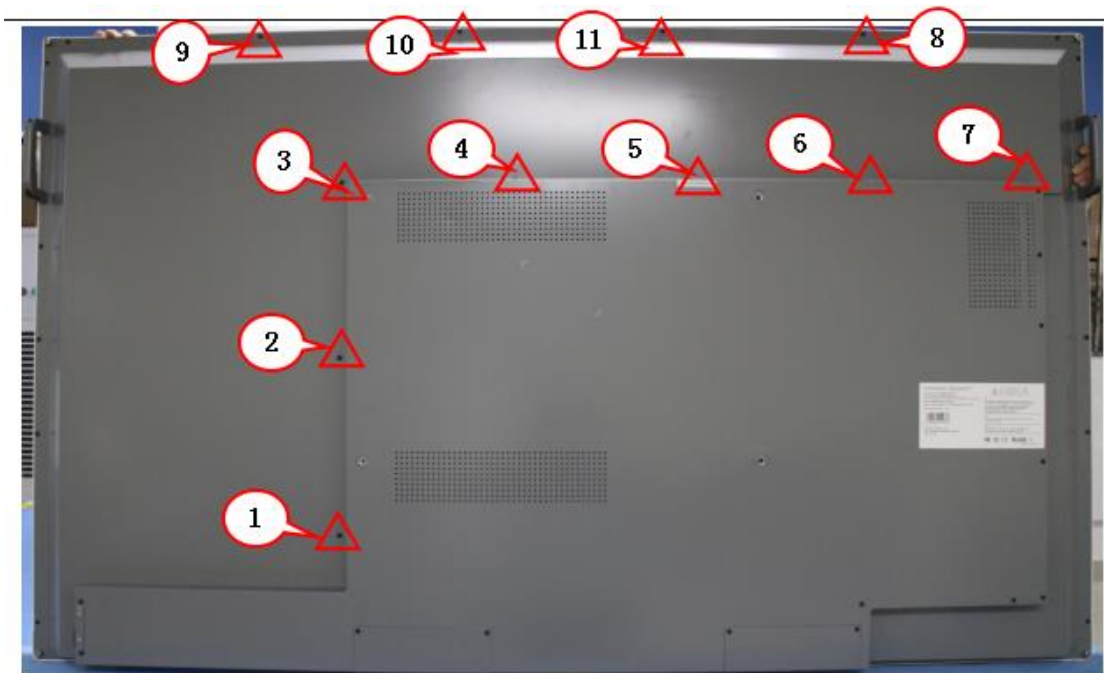
3) Remove $\Phi 3 \times 6$ mm Plating black zinc mechanical screw with meson head ($\Phi 7$ mm) * 4PCS, release the rear shell and the power strip shield;



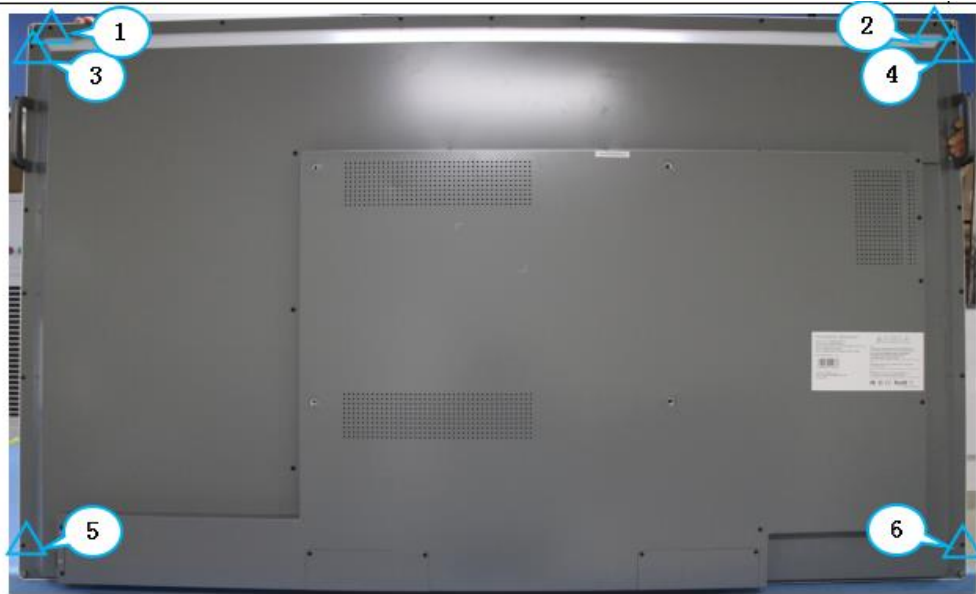
4) Remove M4*6 black zinc plated cross-recessed small button-head product screw*14PCS, release the rear shell and the face frame;



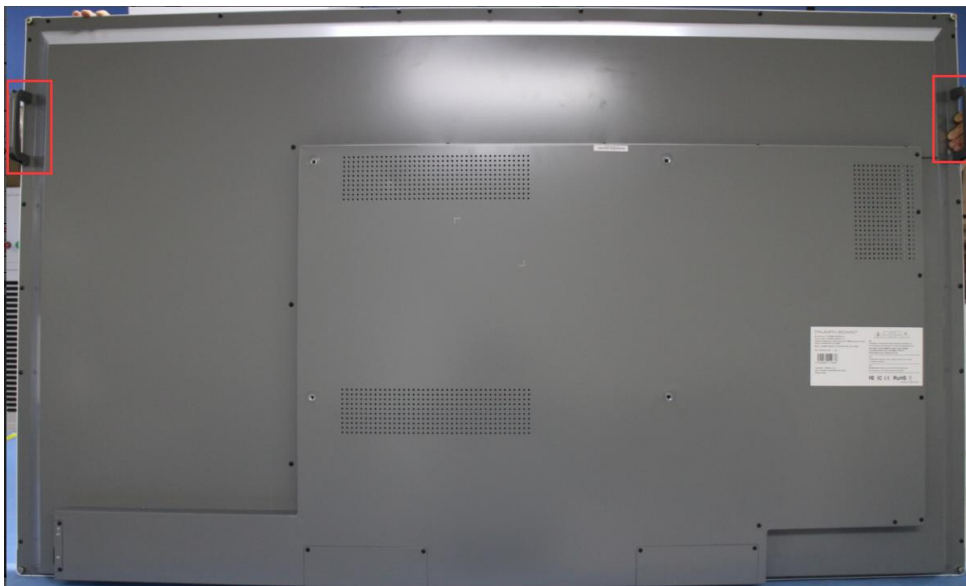
5) Remove M4*6 black zinc plated cross-recessed small button-head product screw*11PCS, release the rear shell and the panel;

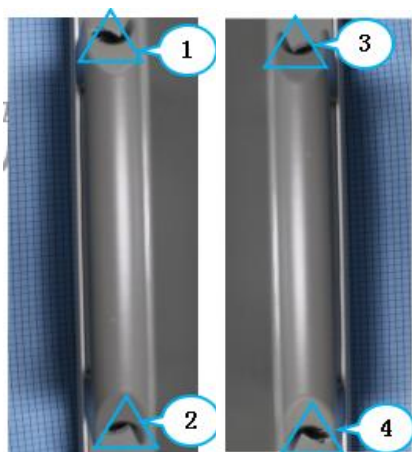


6) Remove M3*11mm Cross recessed countersunk head screw black plated zinc alloy tooth machine*6 PCS, release the rear shell and the face frame;



7) Remove M6*18 B headband cushion (the thickness of the cushion 1.4) plating black zinc mechanical screw*4 PCS, release the handle and the face frame;



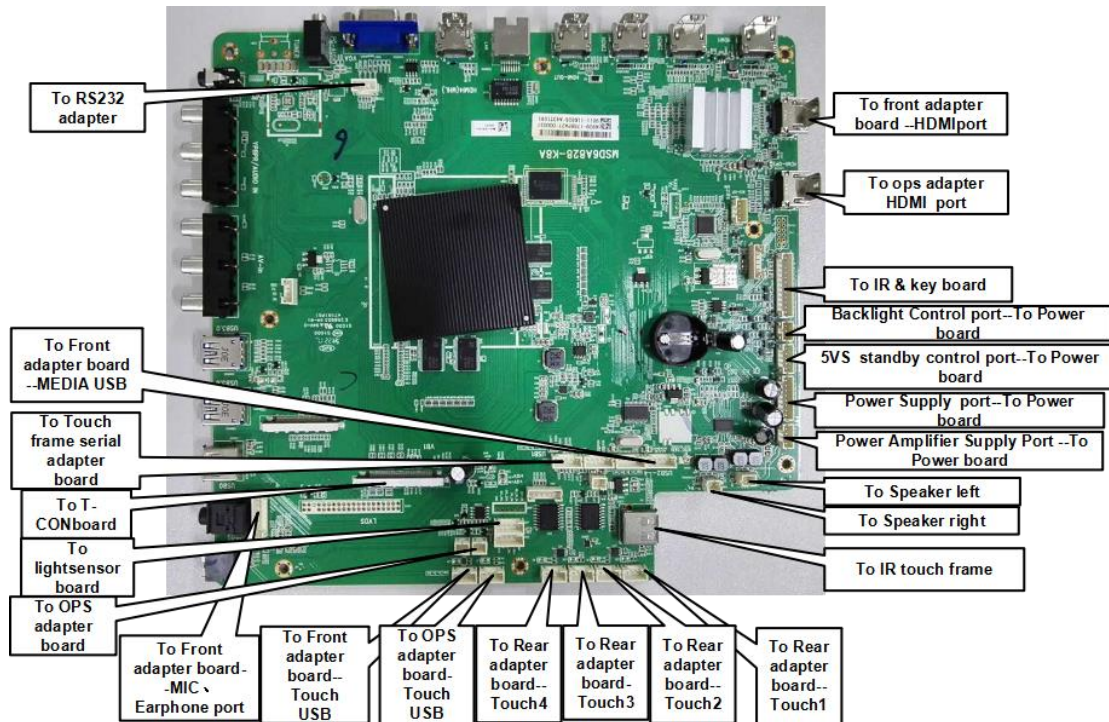


8) Manually remove the M4 25mm Philips head screws - 4 Pcs, release the rear shell and the Corner decoration cover;

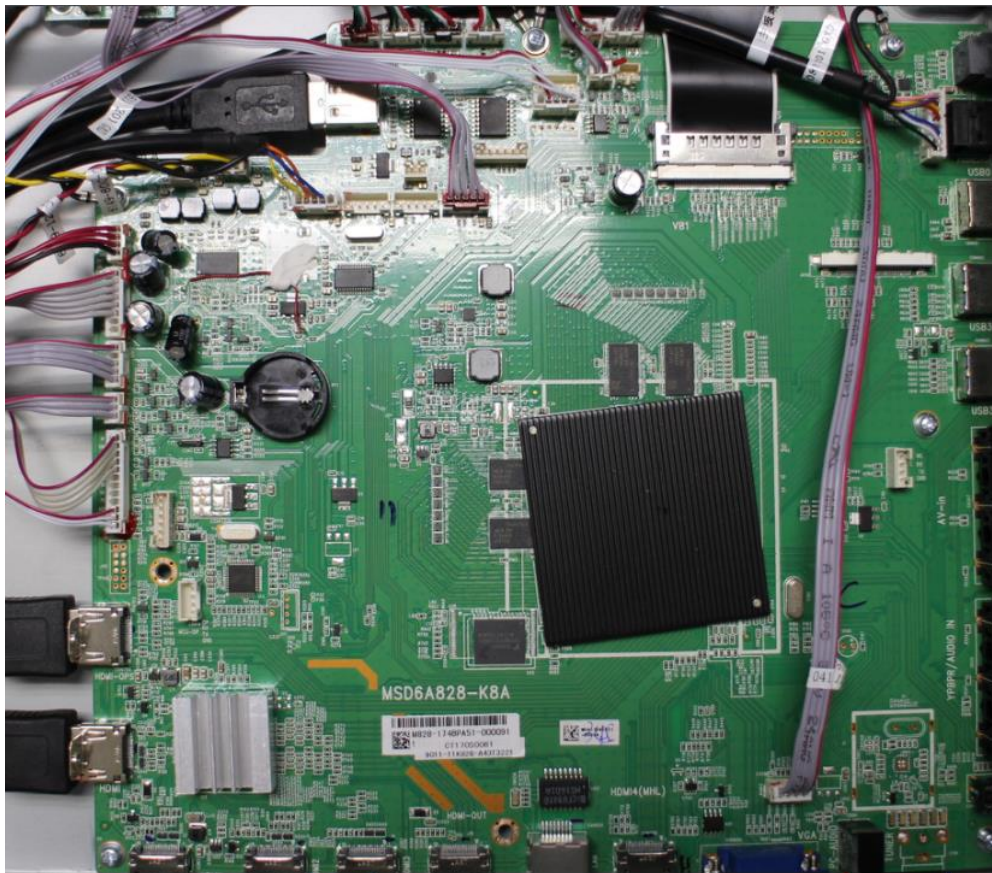


➤ Step 2: Remove boards

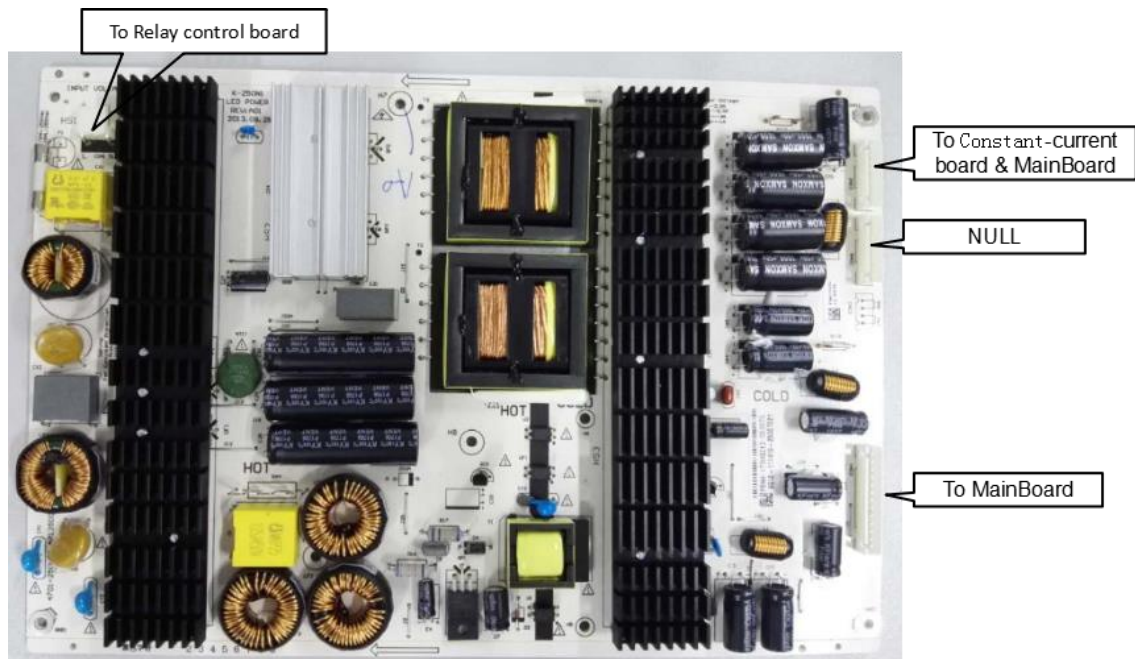
1) Mainboard:



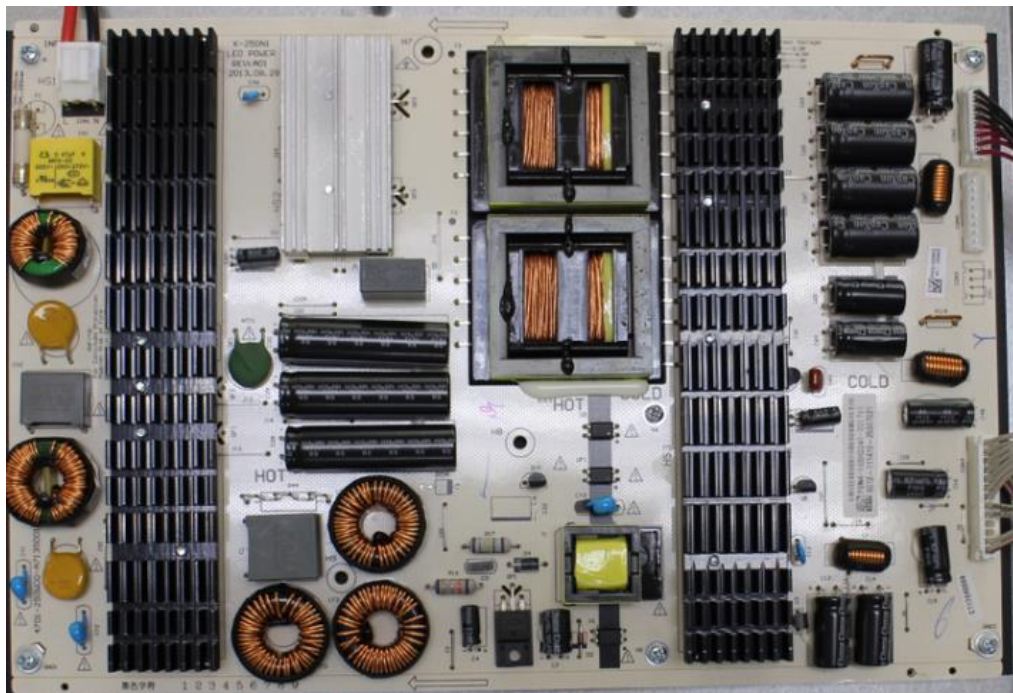
Mainboard cable



2) Power board



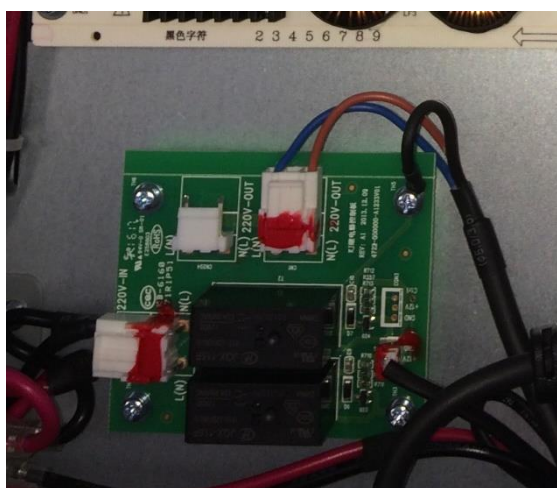
Power board cable



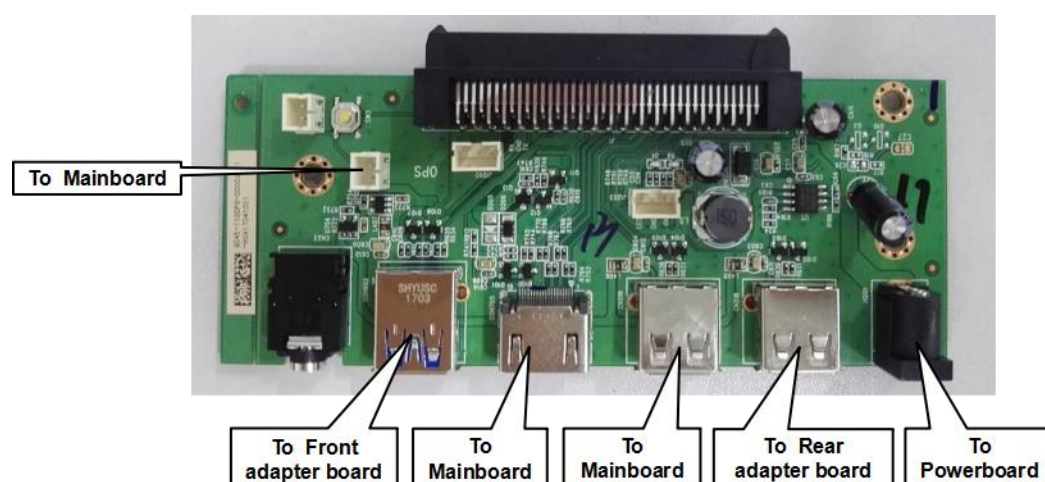
3) OPS power adapter



4) Power relay board



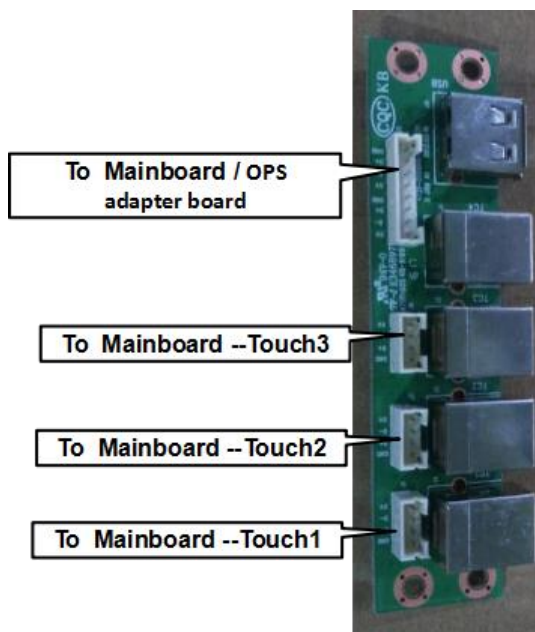
5) OPS adapter board



OPS adapter board cable



6) Rear adapter board



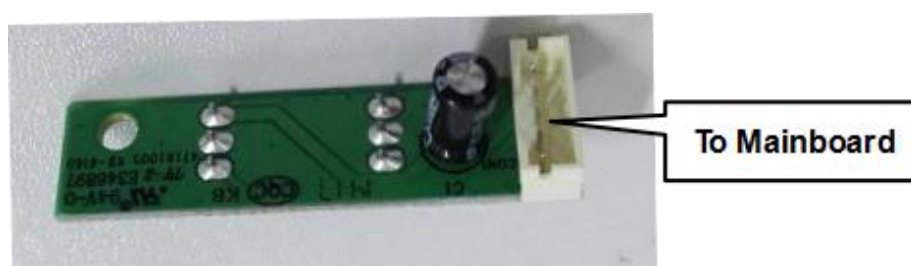
7) Rear adapter board cable



8) RS232 port adapter board



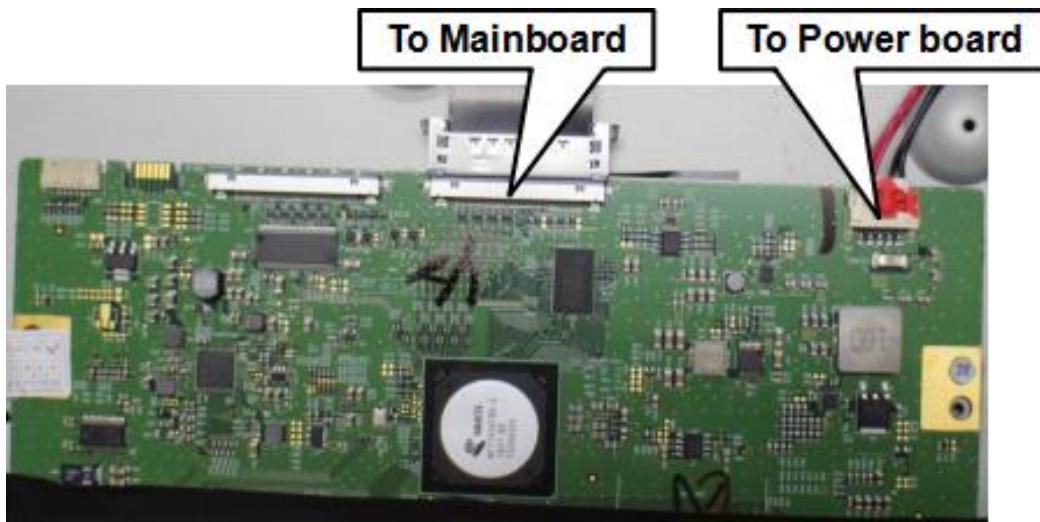
9) IR board



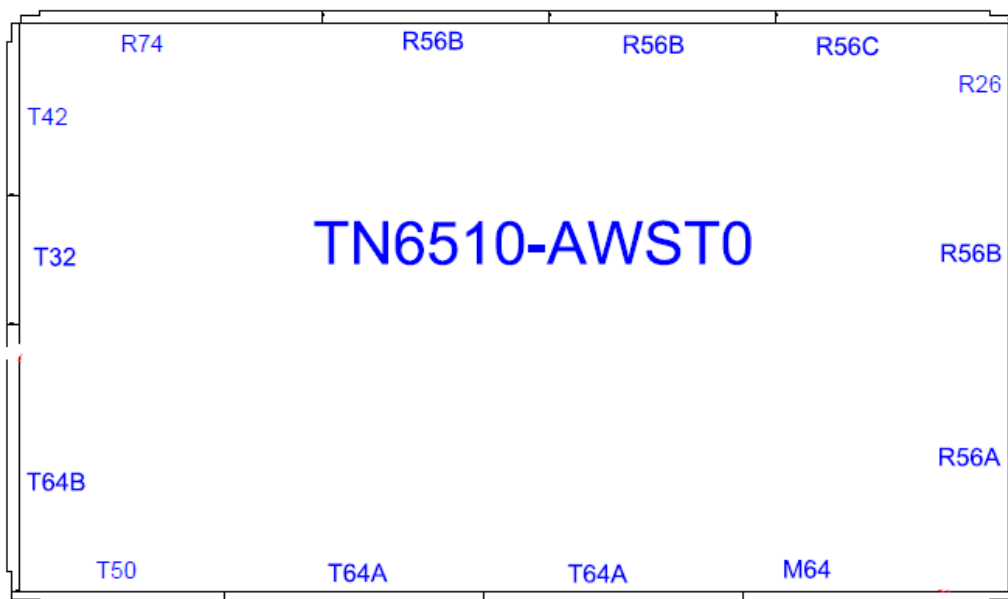
10) Keyboard

Diagram illustrating the connection of the sensor board to the mainboard. A callout box labeled "To Mainboard" points to the connector on the sensor board.

30

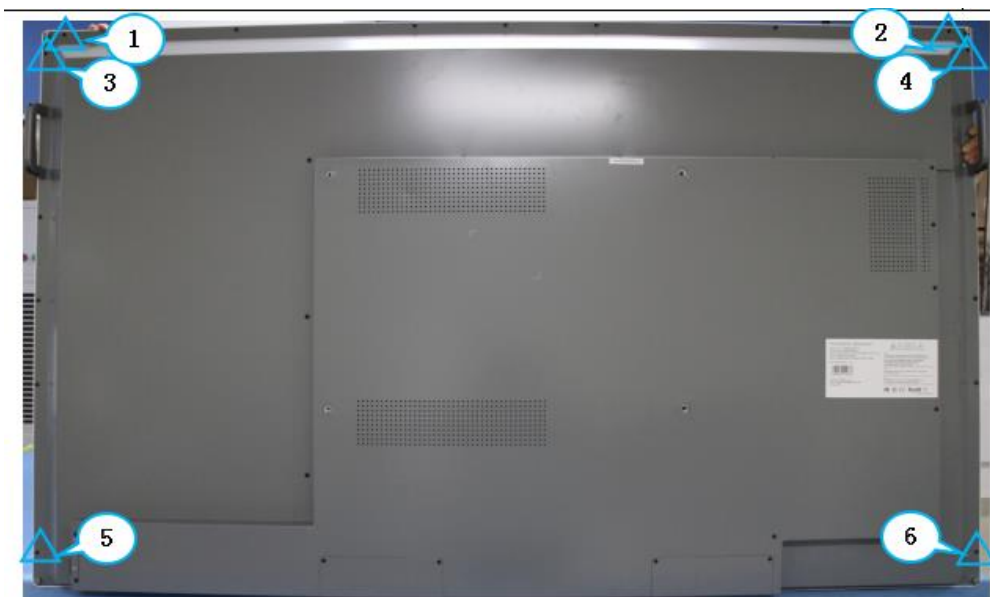


15) Touch frame (65")



Steps for replacing the touch frame:

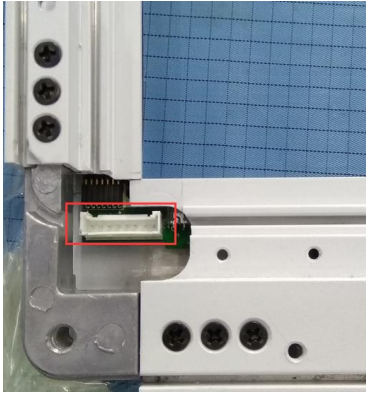
Step 1: Remove the M3*11mm Phillips head recessed countersunk head screw black plated zinc alloy tooth machine*6PCS, release the rear cover and the front frame;



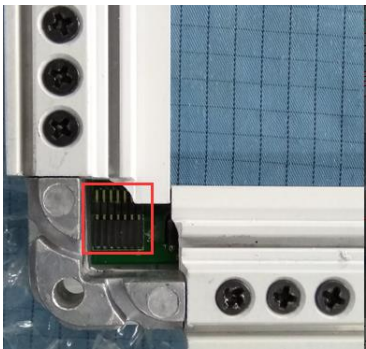
Step 1: Manually remove the M4 25mm Philips head screws - 4 Pcs, release the rear shell and the Corner decoration cover;



Step 2: Remove the Touch frame cable.



Step 3: Gently push the touch end to withdraw the touch frame PCBA at the nonconforming position; then install a conforming board into the touch frame in the same way as before.



** for additional instructions for touch frame replacement please contact support@triumphboard.com*

5. Software Debugging Instructions

There are two common modes of system software upgrade: Upgrade via Factory Menu, and Upgrade Using side buttons

5.1 Upgrade via Factory Menu

Step 1: Copy the upgrade file “MstarUpgrade.bin” to the root directory in the UDISK;

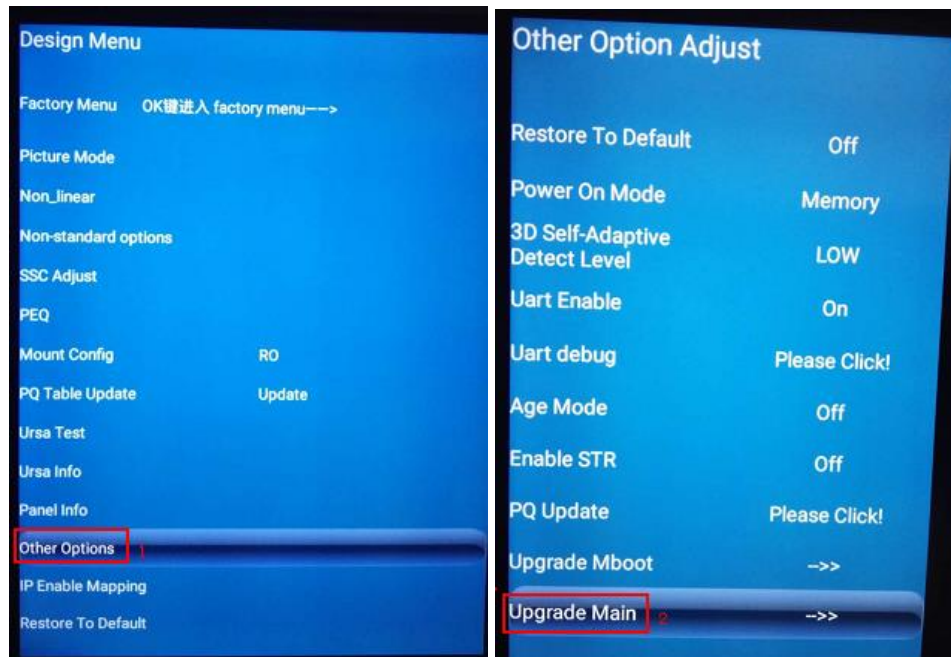
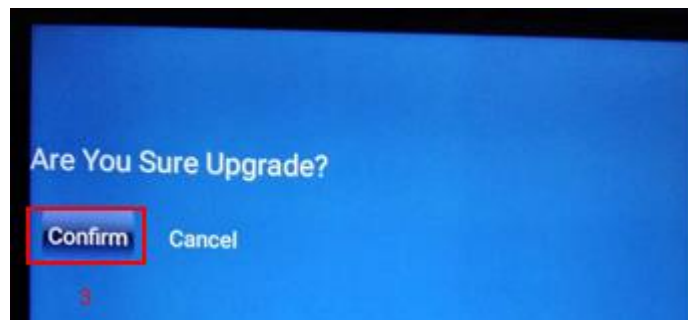
Step 2: Insert the UDISK into the “ANDROID-USB” port on the front frame;



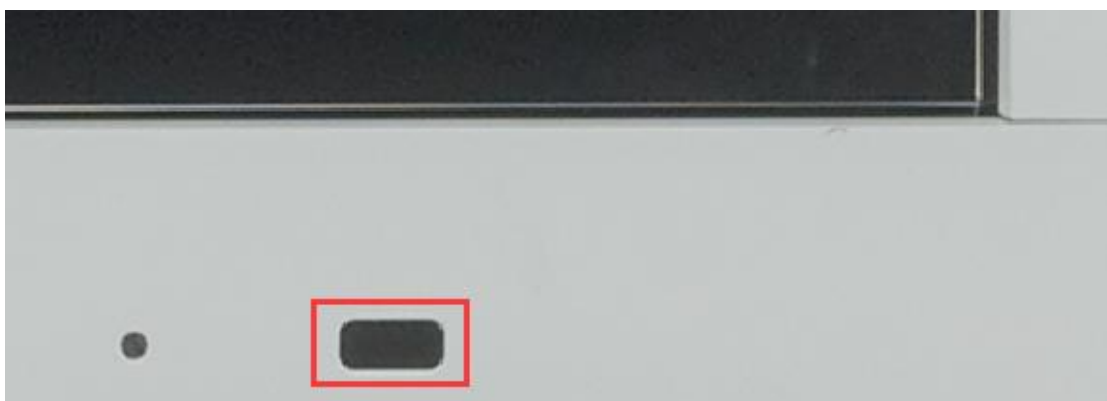
Step 3: Press the “Source” key on the remote control; when Source options appear on the screen, press the numerical keys “2”, “5”, “8”, “0” to enter the Factory Menu;



Step 4: In the Factory Menu, select “Other Options” -- “Upgrade Main”; click OK and select “Confirm”; then click OK again to start upgrade.



Step 5: In the upgrade process, the power indicator light in the lower right corner of the front frame will blink red until successful upgrade is achieved and the normal boot screen appears.



If you have performed the upgrade correctly, the swipe up function should be replaced by the 2-fingers touch menu and the new application, Office Suite, should be visible in the app section.

OPS and Laptop use

If you are using OPS or Laptop it is necessary to install a driver for 2-finger touch menu working under OPS or Laptop.

Notes:

Do not power off during upgrade. Do not unplug USB disk during upgrade.

Applicable only for EAN 8592580112638

5.2 Upgrade via side buttons

Step 1: Copy the upgrade file “MstarUpgrade.bin” to the root directory in the UDISK;

Step 2: Insert the UDISK into the “ANDROID-USB” port on the front frame;



Step 3: After normal shutdown, turn the power switch from “-” to “o” to power off the product;

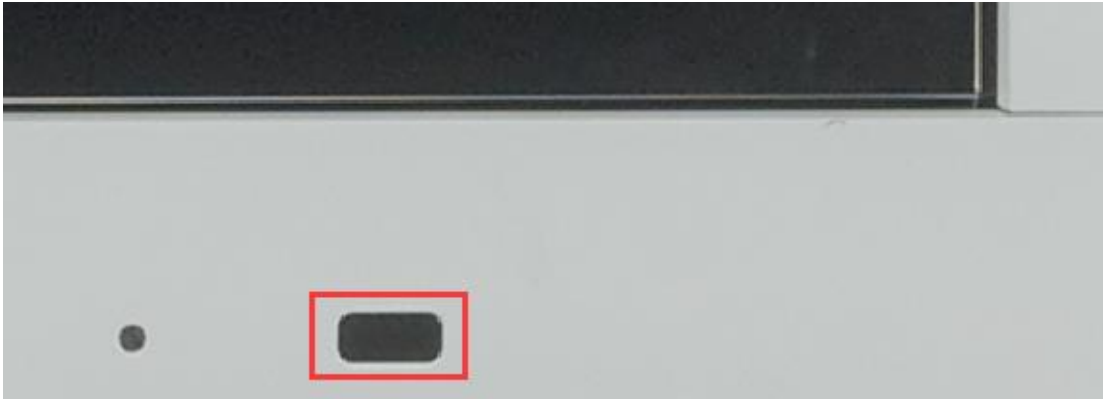


Step 3: Long press the “VOL+” button in the middle of the 7 buttons on the button board at the lower right corner of the front frame, and turn the hard switch on the back of the product from “o” to “-” to power on the product;



Step 4: At this moment, the product will start up, detect the upgrade file and perform upgrade automatically. The power indicator light in the lower right corner will start blinking in red; after blinking three times, indicating the system has recognized the upgrade file on the UDISK, you can release the

“VOL+” button (for some UDISKs, their indicator light will also blink to indicate the upgrade file is being written);



Step 5: The upgrade file will be written successfully in about 10min; then the product will restart automatically and return to the normal boot screen. This indicates the firmware upgrade was successful.

If you have performed the upgrade correctly swipe up function should be replaced by 2 fingers touch menu and new application OfficeSuite should be visible in the app section.

OPS and Laptop use

If you are using OPS or Laptop it is necessary to install driver for 2 fingers touch menu working under OPS or Laptop.

Notes:

Do not power off during upgrade. Do not unplug USB disk during upgrade.

Applicable only for EAN 8592580112638

5.6 Online OTA upgrade

Online OTA upgrade is applicable for the Interactive Flat Panels below and for the newest Android versions with 2 touch Android menu and OfficeSuite application in the app section

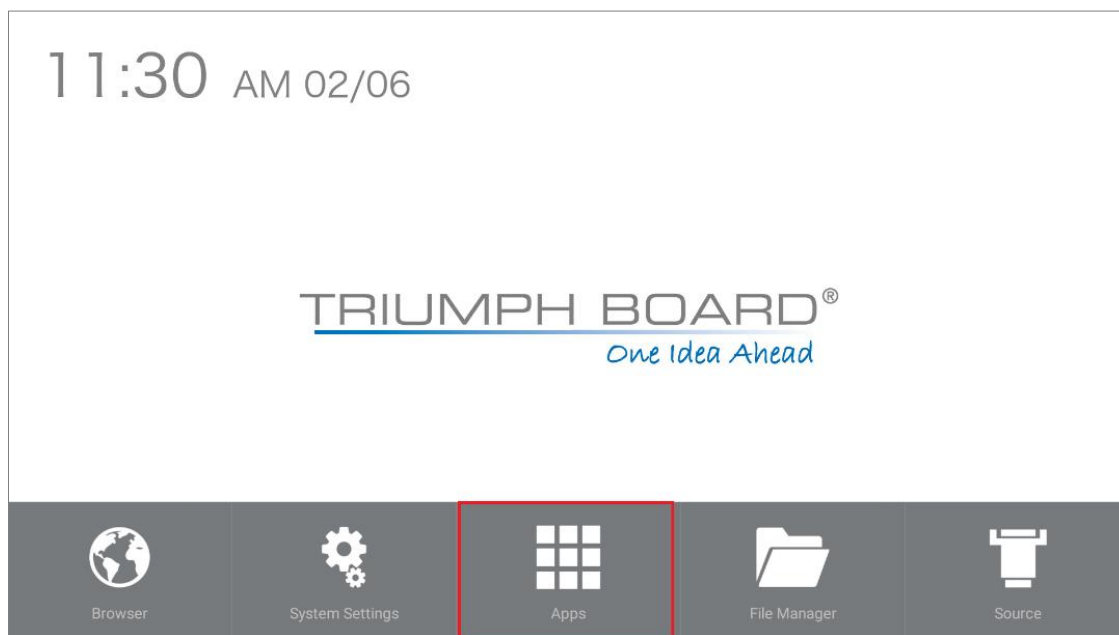
55" IFP EAN: 8592580114038

65" IFP EAN: 8592580114045

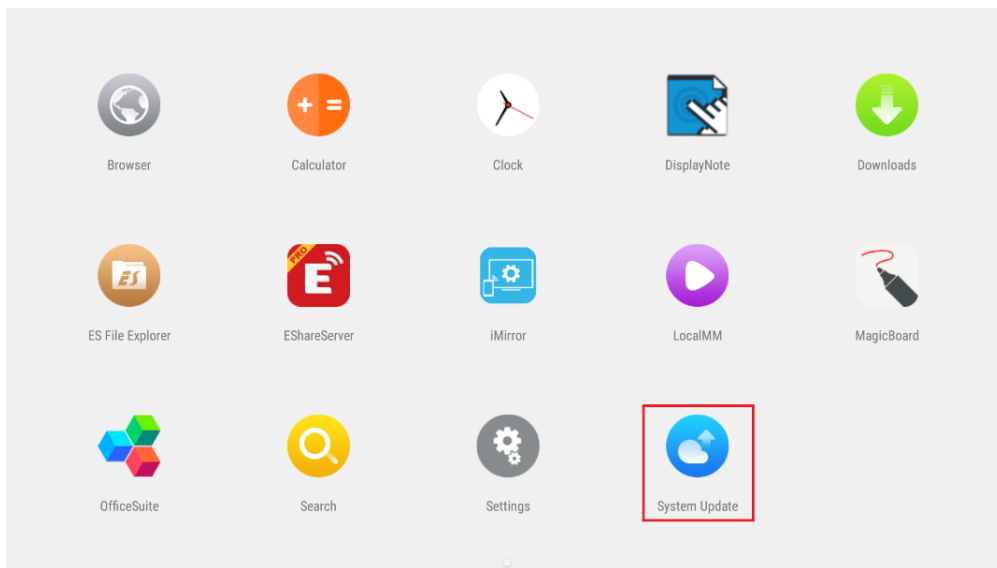
75" IFP EAN: 8592580114052

86" IFP EAN: 8592580114069

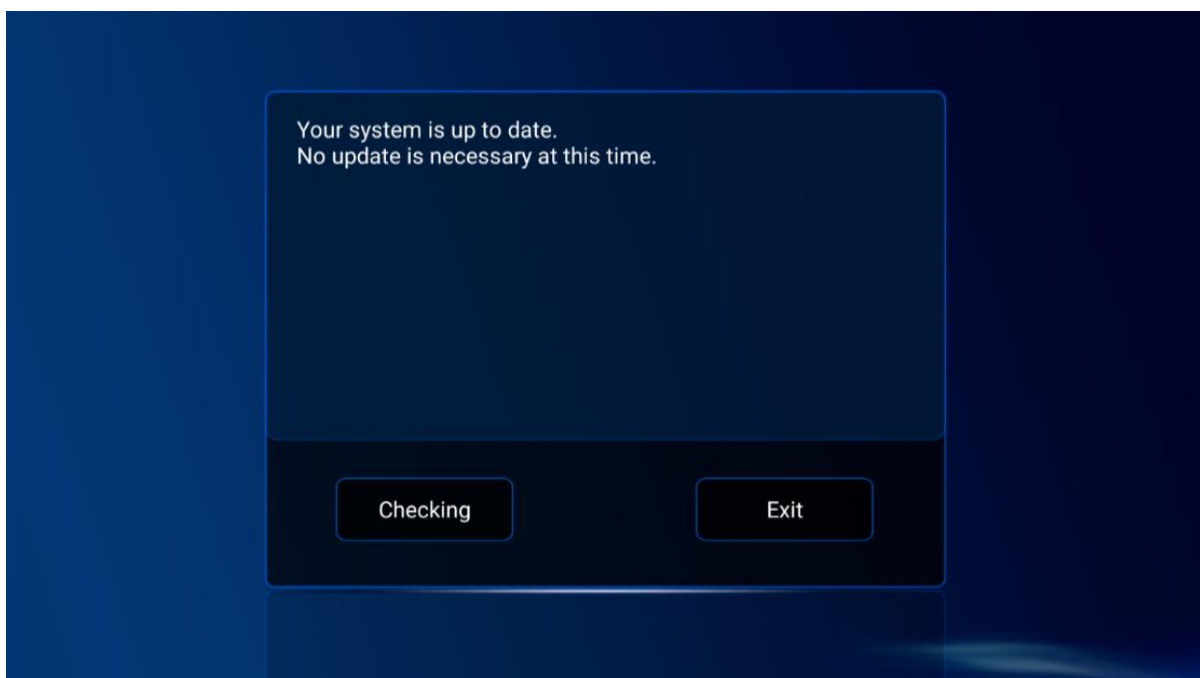
1. Open Apps menu



2. Click on System Upgrade



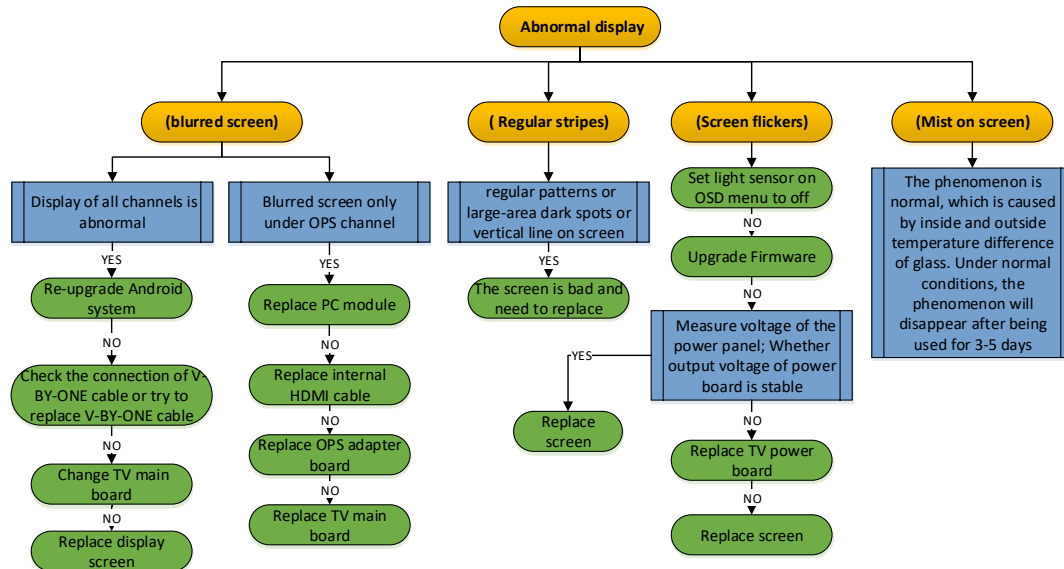
3. Press Checking to see if there is any upgrade.



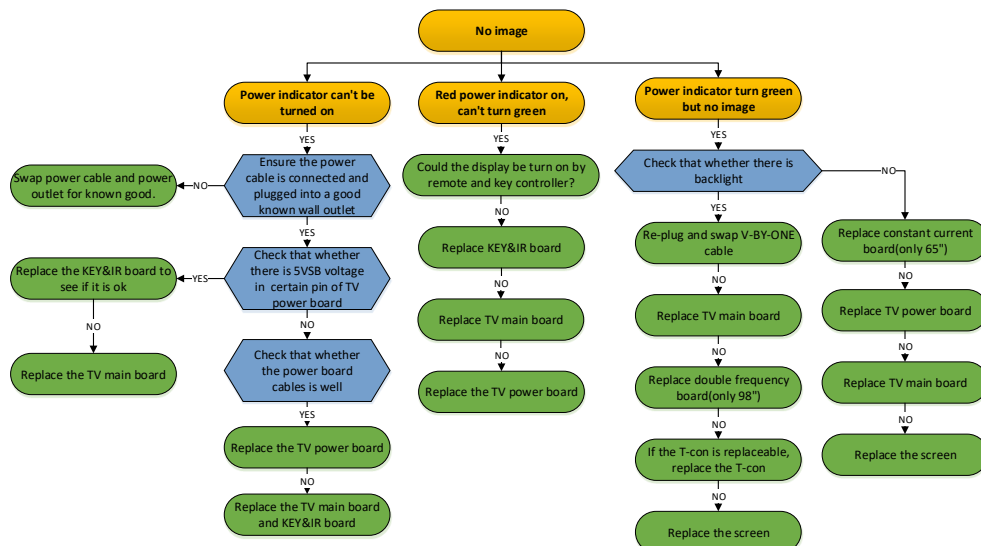
Notes: Do not power off during upgrade. Do not unplug Wi-Fi Dongle or LAN cable from IFP during upgrade

6. Troubleshooting for IFP UHD series

6.1 Abnormal display

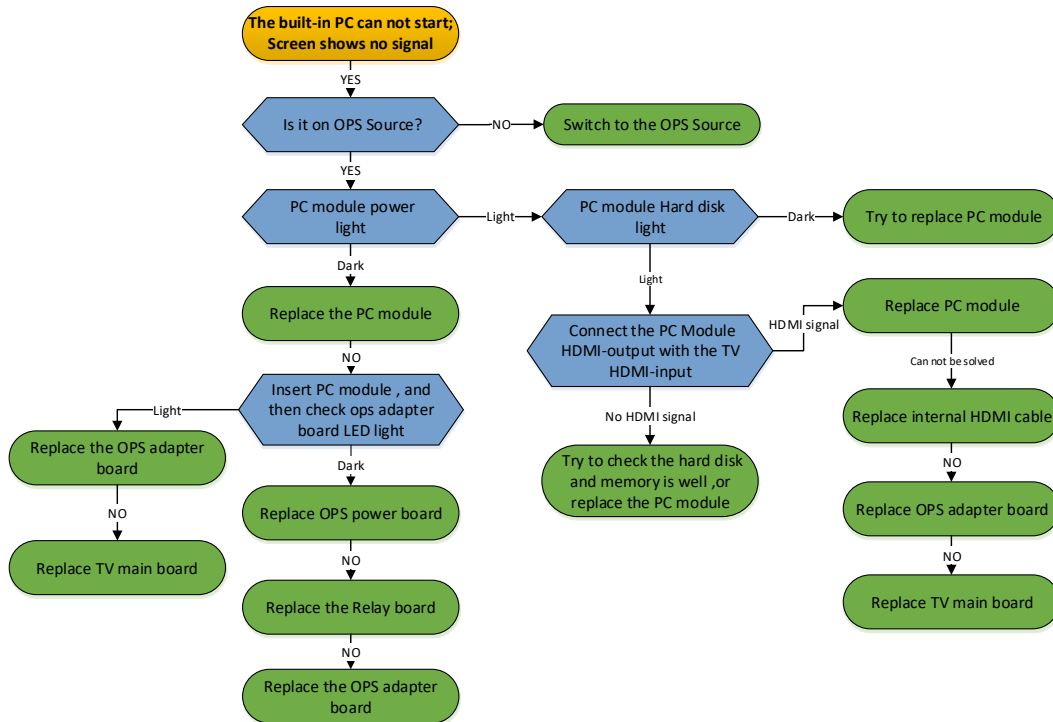


6.2 No image

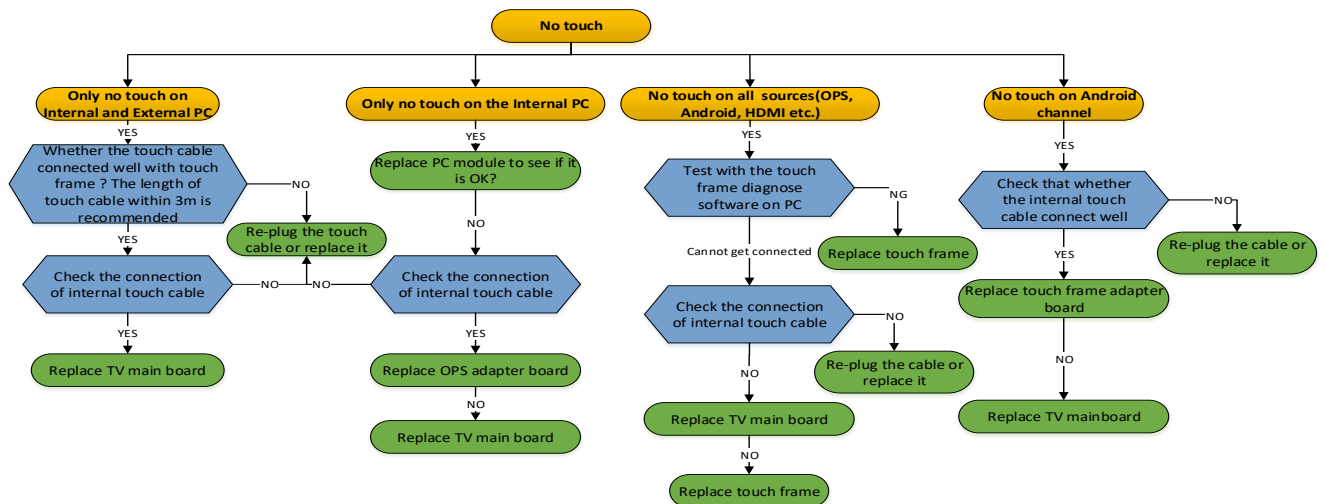


* for additional instructions of replacing LVDS (V-By-One) cable download "Internal LVDS video cable replacement instructions" file from <https://www.triumphboard.com/support/repair-service/>

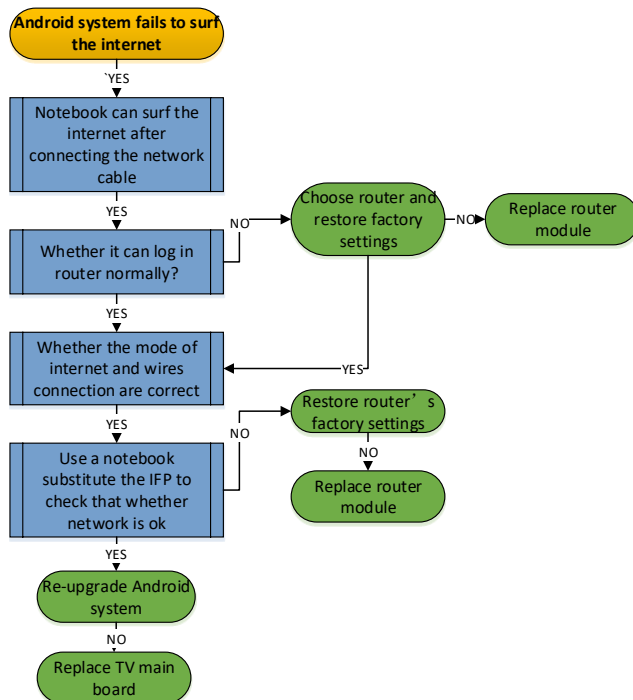
6.3 OPS has No signal



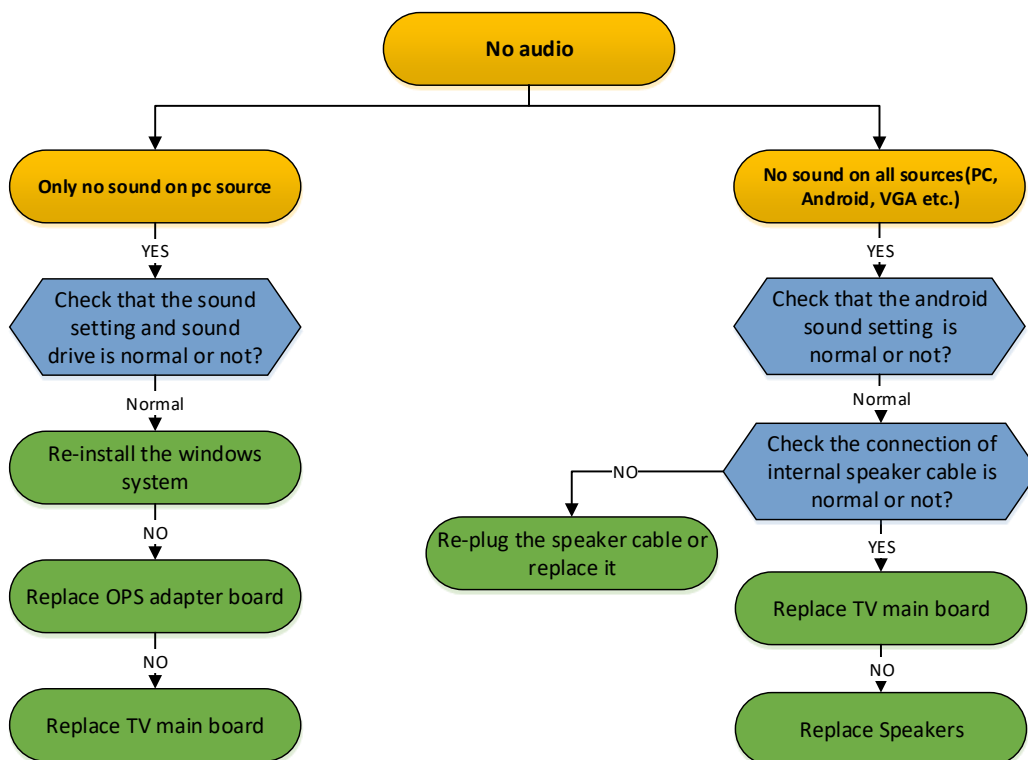
6.4 No touch



6.5 Internet issues



6.6 No audio



Repair Service and Contacts

Please contact your local supplier regarding warranty and technical service. You can find all warranty conditions and service partners on our website www.triumphboard.com/support/warranty. If you have any questions, please email us at info@triumphboard.com

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