Service Manual

LCD 显示器维修手册

Custom： **AOC**

Model： **i2252VW**

本手册适用于主板为 **715G4502，Scalar IC NT68660**

This manual applies to mainboard**715G4502，Scalar IC NT68660**

REVISION LIST

Version	Release Date	Revision History	Model	TPV Model No	Editor
A00	Jun-28-2011	Initial Release	AOCi2252VW	TIBGN22YAYA1HNJ	TPV-BJ-Rainsun

CONTENTS

1. LCD Specifications

1.1 Product Features

Monitor	Model	AOC i2252VW
LCD Panel	Driving system	TFT Color LCD
	Active Display Area	476.64mm (W)×268.11mm(H) 546.86mm diagonal
	Pixel Pitch	0.24825 mm×0.24825mm
Input	Video	R,G,B Analog Interface，75ohm,0.7V
		DVI digital Interface
	Separate Sync.	H/V TTL
	H-Frequency	30kHz—80kHz
	V-Frequency	56Hz--75Hz
Input Connector		D-Sub 15pin
		DVI 24pin
Display Colors		16.7M Colors
Dot Clock		165MHz
Max. Resolution		1920 x 1080@60Hz
Plug & Play		VESA DDC2B DDC/CI
Power Consumption	ON Mode	<35W
	Power Saving Mode	<1W
	Switch OFF	<0.5W
Power Source		90~264VAC,47~63Hz, 1.5A Max supply current
Environmental Considerations		Operating Temp: 0° to 40°C Storage Temp.: -20° to 60°C Operating Humidity : 8% to 80% Altitude：Operating 0~3,658m (0~12,000ft) Non-Operating 0~12192m (0~40,000ft)
Dimensions(including stand)		496.5(W)x378.6(H)x186 (D)mm
Weight (N. W.):		3.5kg
Safety		FCC B CE mark CCC IEC950CB etc.

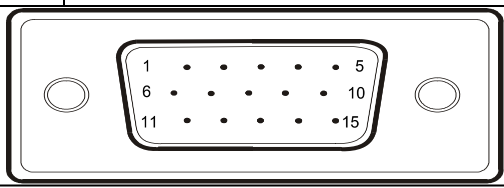
1.2 Factory preset modes

STANDARD	RESOLUTION	HORIZONTAL FREQUENCY	VERTICAL FREQUENCY
VGA	640×480	31.469kHz	59.94Hz
	640×480	35.00kHz	66.67Hz
	640×480	37.861kHz	72.80Hz
	640 × 480	37.50kHz	75.00Hz
DOS-mode	640 × 480	31.469kHz	70.087Hz
	720 × 400	31.469kHz	70.087Hz
Mac-mode	832 ×624	49.725kHz	74.50Hz
SVGA	800 × 600	35.16kHz	56.25Hz
	800 × 600	37.879kHz	60.317Hz
	800 × 600	48.07kHz	72.188Hz
	800 × 600	46.875kHz	75Hz
XGA	1024 × 768	48.363kHz	60Hz
	1024 × 768	56.476kHz	70Hz
	1024 × 768	60kHz	75Hz
	1280 × 720	45kHz	60KHz
WXGA	1600 × 900	60.00kHz	60Hz
WSXGA +	1920 x 1080@60Hz	67.5kHz	60.000Hz
	1920 x 1080@60Hz	67.158kHz	59.963Hz

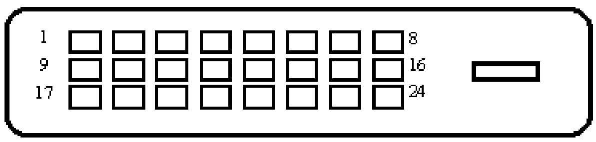
1.3 New Features

21.5”W Active matrix LCD panel，LED driver backlight;
Resolutions: 640 x 480 up to 1920 x 1080/60HZ
Clear Vision features added
Dynamic Contrast Ratio(DCR) 20000000:1
Display Interface: VGA, DVI；EPA 5.0

1.4 VGA 15pin Connector

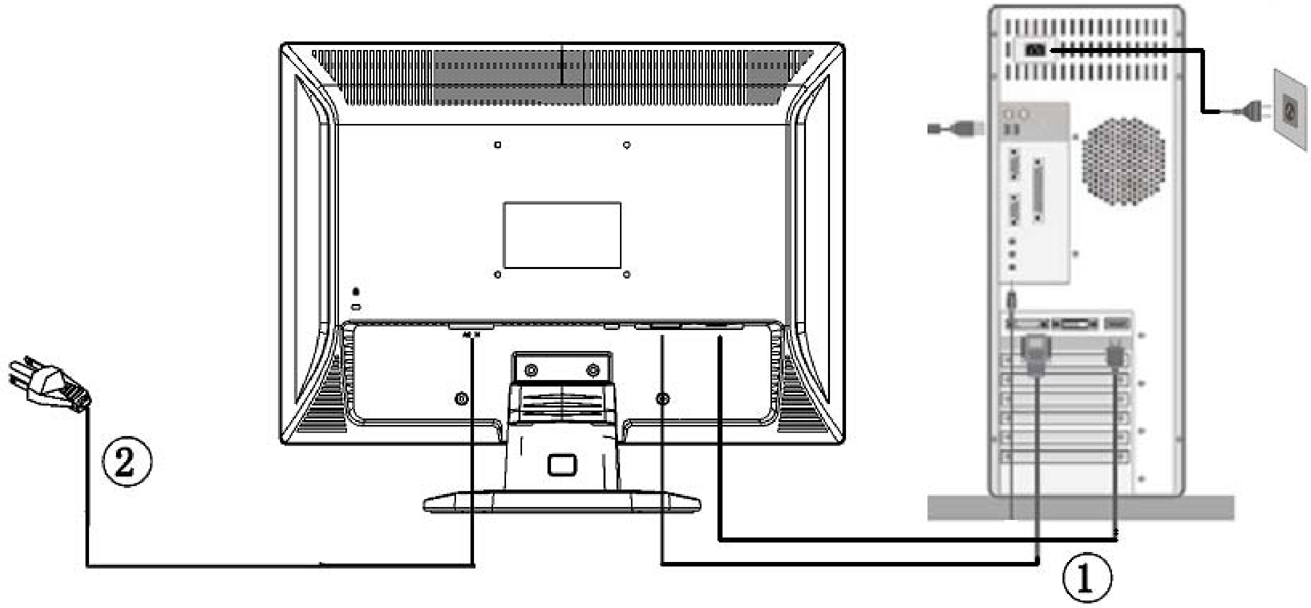
Pin No.	Description	Pin No.	Description
1.	Red Input	9.	+5VDC
2.	Green Input	10.	Logic GND
3.	Blue Input	11.	N/A
4.	N/A	12.	SDA- DDC-Serial Data
5.	Connection detect	13.	H Sync
6.	Red GND	14.	V Sync
7.	Green GND	15.	SCL- DDC-Serial Clock
8.	Blue GND		
VGA Connector layout			

1.5 DVI Connector

Pin No.	Description	Pin No.	Description
1.	TMDS Data 2-	13.	TMDS Data 3+
2.	TMDS Data 2+	14.	+5V Power
3.	TMDS Data 2/4 Shied	15.	Ground (for +5V)
4.	TMDS Data 4-	16.	Hot Plug Detect
5.	TMDS Data 4+	17.	TMDS Data 0+
6.	DDC Clock	18.	TMDS Data 0-
7.	DDC Data	19.	TMDS Data 0/5 Shield
8.	N.C.	20.	TMDS Data 5-
9.	TMDS Data 1-	21.	TMDS Data 5+
10.	TMDS Data 1+	22.	TMDS Clock Shield
11.	TMDS Data 1/3 Shield	23.	TMDS Clock+
12.	TMDS Data 3-	24.	TMDS Clock-
DVI Connector layout			

2. Operation instruction

2.1 Connection

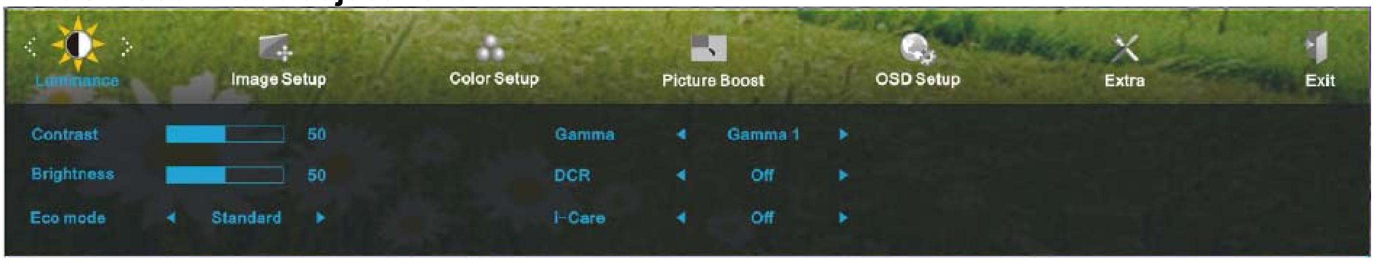


- Connect the video cable from the video card of PC to the monitor..
- The power cord should be connected
- Press the power button to turn on the monitor, the power indicator will light up.

2.2 Control Buttons

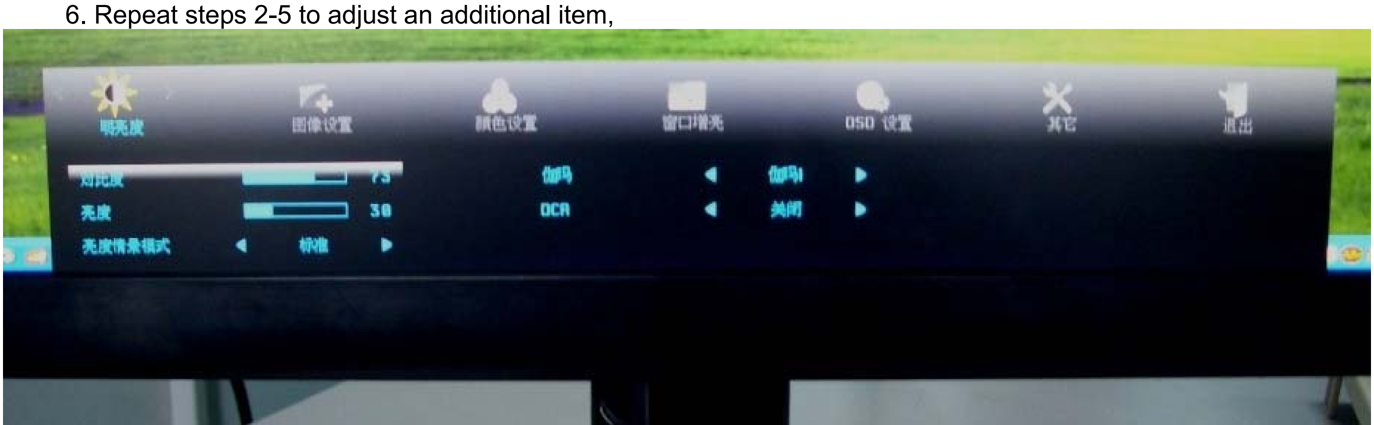
	Control Button	Description
1	⏻	To turn ON/OFF the moniteor, and power indicator (Green/Orange).
2	**Menu / Enter**	Active main menu while no OSD display,enter next level on main menu or sub menu status, or enter last level on adjustment bar. Select Exit icon then press Menu button to return to superior menu.
3	**Auto/Exit**	Hotkey ,Input Source selection.
		There is OSD, press Auto button to exit OSD.
4	**+/4:3 or wide /up**	Hotkey, chang 4:3 or wide image ratio or do auto configure
		OSD, increase current value of bar, or move to next item of menu
5	**-/Down**	Hotkey, Clear Vision function
		OSD, it will decrease current value of bar, or it will move to last item of menu.

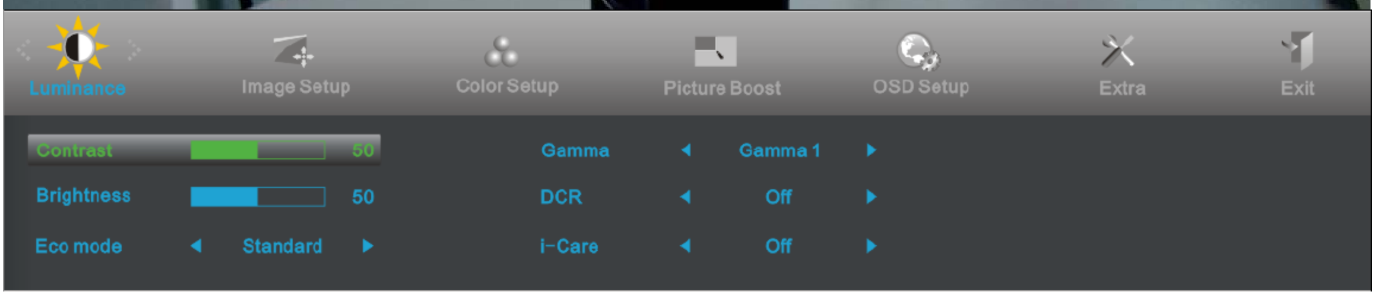
2.3 OSD User mode adjustment



a) OSD Menu **adjustment steps:**

1. Press MENU to activate OSD main menu, Touch +/ − button may select other Menu item..
2. Press MENU button to select items of each main menu.Touch +/ − to move and select.
3. Press MENU may select item you wish to enter. Touch +/ − to adjust item you selected.
4. Press MENU button to enter,
5. Press AUTO to EXIT OSD
6. Repeat steps 2-5 to adjust an additional item,





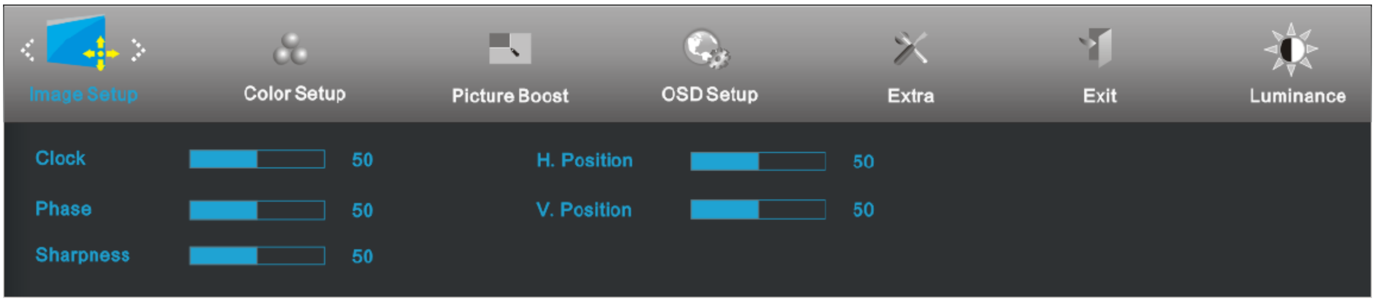


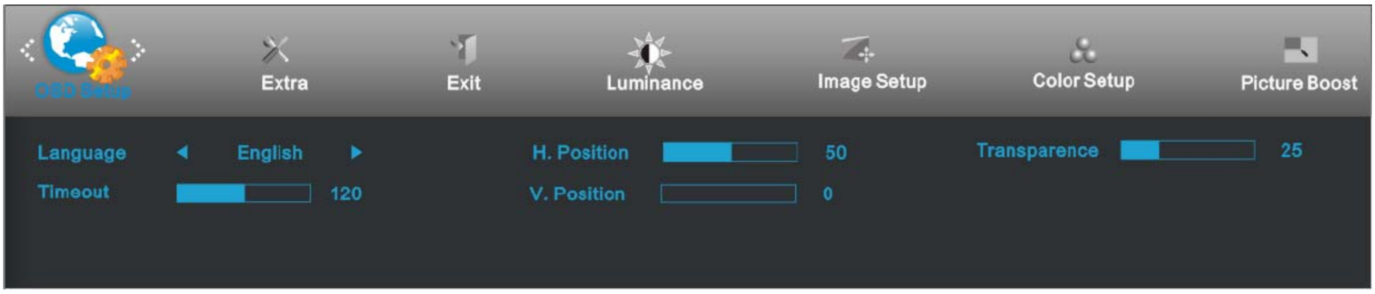
Image Setup
Color Setup
Picture Boost
OSD Setup
Extra
Exit
Luminance
Clock 50
Phase 50
Sharpness 50
H. Position 50
V. Position 50


Image Setup
Color Setup
Picture Boost
OSD Setup
Extra
Exit
Luminance
Clock 50
Phase 47
Sharpness 50
H.Position 50
V.Position 50


Color Setup
Picture Boost
OSD Setup
Extra
Exit
Luminance
Image Setup
Color Temp. Warm
DCB Mode Off
DCB Demo Off
Red 50
Green 50
Blue 50

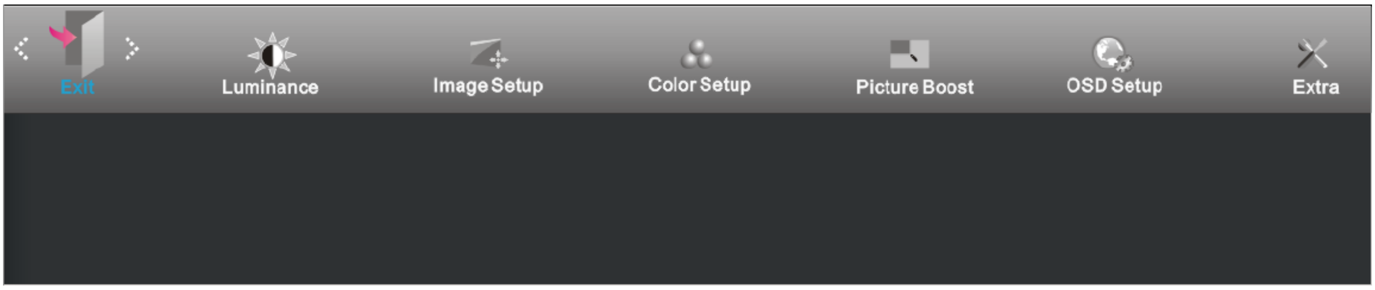

颜色设置
窗口增亮
OSD 设置
其它
退出
明亮度
图像设置
色温 暖色
DCB 模式 关闭
DCB 演示 关闭
红 95
绿 95
蓝 98


Picture Boost
OSD Setup
Extra
Exit
Luminance
Image Setup
Color Setup
Bright Frame Off
Frame Size 14
Brightness 50
Contrast 50
H. Position 50
V. Position 50


OSD Setup
Extra
Exit
Luminance
Image Setup
Color Setup
Picture Boost
Language
English
H. Position
50
Transparence
25
Timeout
120
V. Position
0

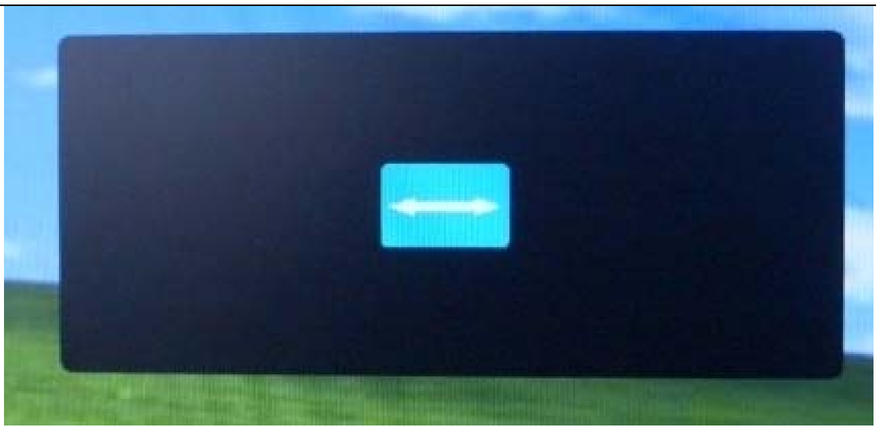
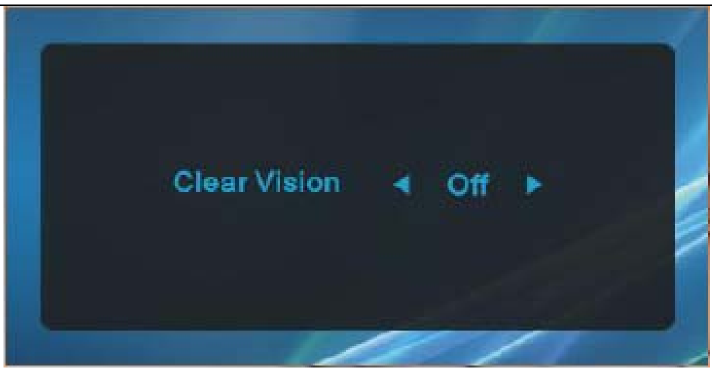

OSD 设置
其它
退出
明亮度
图像设置
颜色设置
窗口增亮
语言
简体中文
显示时间
水平位置
垂直位置
透明度


Extra
Exit
Luminance
Image Setup
Color Setup
Picture Boost
OSD Setup
Input Select
Auto
Image Ratio
4:3
Resolution: 1024 (H) X768 (V)
Auto Config.
Yes
DDC/CI
Yes
H. Frequency: 60KHz
Off Timer
00
Reset
No
V. Frequency: 60Hz


Exit
Luminance
Image Setup
Color Setup
Picture Boost
OSD Setup
Extra


退出
明亮度
图像设置
颜色设置
窗口增亮
OSD 设置
其它

b) hotkey OSD Menu as shown below

AUTO Source selection	
+ Screen switching	
– Clear vision mode	

2.4 OSD Locked

When press "⏻" to switched on the monitor, while holding press the" menu" button, the menu will be locked. Again, the OSD menu is non-locked.

3. Panel Feature

LM215WF3 is a Color Active Matrix Liquid Crystal Display with a Light Emitting Diode (White LED) backlight system without LED driver. The matrix employs a-Si Thin Film Transistor as the active element. It is a transmissive type display operating in the normally black mode. It has a 21.5 inch diagonally measured active display area with FHD resolution (1080 vertical by 1920horizontal pixel array) Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with a 8-bit gray scale signal for each dot,thus, presenting a palette of more than 16,7M colors with A-FRC (Advanced Frame Rate Control).
It has been designed to apply the 8Bit 2 port LVDS interface. I t is intended to suppor t di splays where high br ightness, super wide viewing angle, high color saturation, and high color are important.

3.1 General Specifications

Active Screen Size	21.46 inches(545.22mm) diagonal
Outline Dimension	495.6(H) x 292.2(V) x 10.2(D) mm (Typ.)
Pixel Pitch	0.2475 mm x 0.2475mm
Pixel Format	1920 horiz. By 1080 vert. Pixels RGB stripes arrangement
Color Depth	16,7M colors (6bit + A-FRC)
Luminance, White	250 cd/m^2 (Center 1 Point, Typ.)
Viewing Angle(CR>10)	View Angle Free (R/L 178(Typ.), U/D 178(Typ.))
Power Consumption	Total 22.29 Watt (Typ.) (3.99 Watt @V_{LCD}, 18.3 Watt @W/O Driver)
Weight	1300 g (typ.)
Display Operating Mode	Transmissive mode, normally black
Surface Treatment	Hard coating(3H), Anti-Glare treatment of the front polarizer

3.2 Electrical Absolute Ratings

Parameter	Symbol	Values		Units	Notes
		Min	Max		
Power Input Voltage	V_{LCD}	-0.3	6.0	Vdc	at 25 ± 2°C
Operating Temperature	T_{OP}	0	50	°C	1, 2, 3
Storage Temperature	T_{ST}	-20	60	°C	
Operating Ambient Humidity	H_{OP}	10	90	%RH	
Storage Humidity	H_{ST}	10	90	%RH	

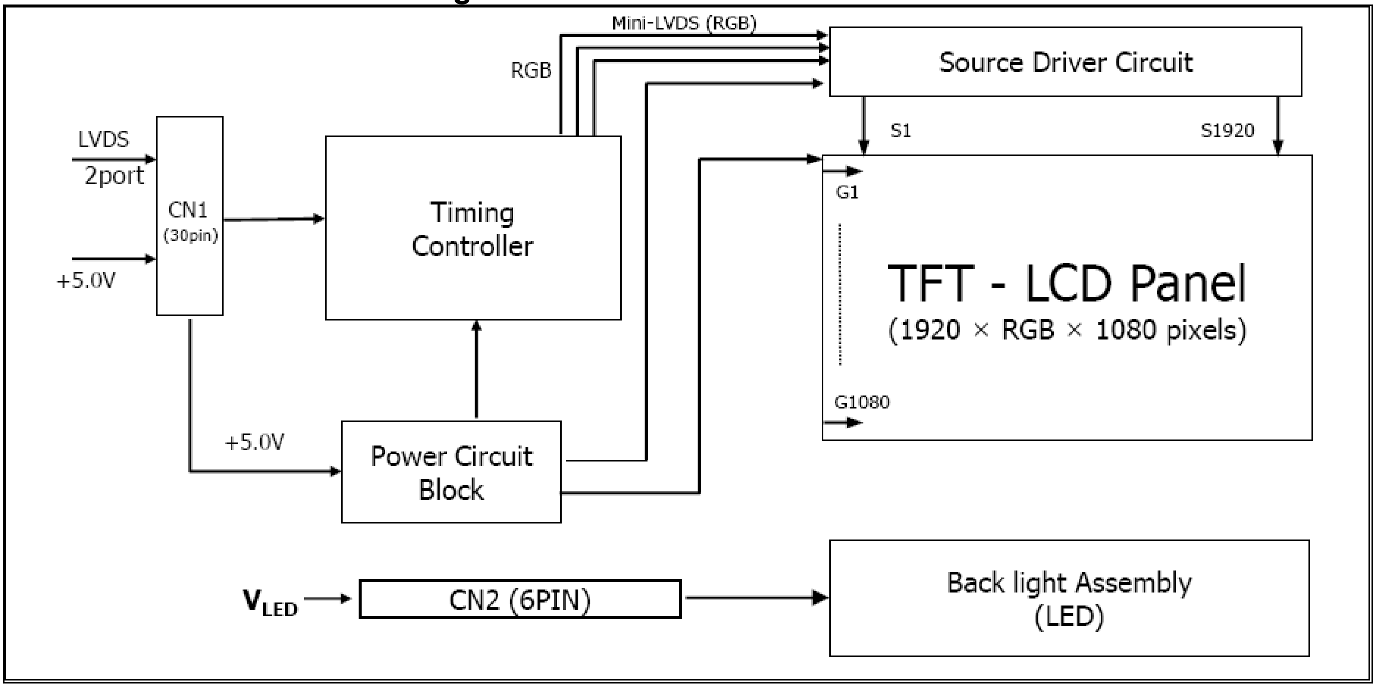
3.3 Electrical Characteristics

Parameter	Symbol	Values			Unit
		Min	Typ	Max	
MODULE :					
Power Supply Input Voltage	VLCD	4.5	5.0	5.5	Vdc
Permissive Power Input Ripple	VdRF			100	mVp-p
Differential Impedance	Zm	90	100	110	Ohm
Power Supply Input Current	ILCD	-	797	917	mA
		-	1063	1223	mA
Power Consumption	Pc TYP	-	3.99	4.59	Watt
	Pc MAX	-	5.32	6.12	Watt
Rush current	IRUSH	-	-	3.0	A

LED array ELECTRICAL CHARACTERISTICS

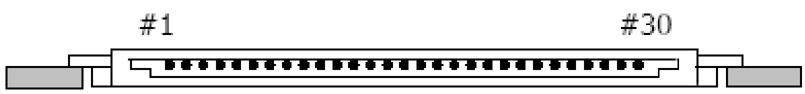
Parameter	Symbol	Condition	Values			Unit
			Min.	Typ.	Max.	
LED :						
LED String Current	Is		-	110	120	mA
LED String Voltage	Vs		39.0	41.6	44.2	V
Power Consumption	PBar		17.2	18.3	19.5	Watt
LED Life Time	LED_LT		30,000	-	-	Hrs

3.4 TFT LCD Module Block Diagram



3.5 LCD module input terminal pin assignment

No	Symbol	Description	No	Symbol	Symbol
1	FR0M	Minus signal of odd channel 0 (LVDS)	16	SR1P	Plus signal of even channel 1 (LVDS)
2	FR0P	Plus signal of odd channel 0 (LVDS)	17	GND	Ground
3	FR1M	Minus signal of odd channel 1 (LVDS)	18	SR2M	Minus signal of even channel 2 (LVDS)
4	FR1P	Plus signal of odd channel 1 (LVDS)	19	SR2P	Plus signal of even channel 2 (LVDS)
5	FR2M	Minus signal of odd channel 2 (LVDS)	20	SCLKINM	Minus signal of even clock channel (LVDS)
6	FR2P	Plus signal of odd channel 2 (LVDS)	21	SCLKINP	Plus signal of even clock channel (LVDS)
7	GND	Ground	22	SR3M	Minus signal of even channel 3 (LVDS)
8	FCLKINM	Minus signal of odd clock channel (LVDS)	23	SR3P	Plus signal of even channel 3 (LVDS)
9	FCLKINP	Plus signal of odd clock channel (LVDS)	24	GND	Ground
10	FR3M	Minus signal of odd channel 3 (LVDS)	25	NC	No Connection (I2C Serial interface for LCM)
11	FR3P	Plus signal of odd channel 3 (LVDS)	26	NC	No Connection.(I2C Serial interface for LCM)
12	SR0M	Minus signal of even channel 0 (LVDS)	27	PWM_OUT	For Control Burst frequency of Inverter
13	SR0P	Plus signal of even channel 0 (LVDS)	28	V_{LCD}	Power Supply +5.0V
14	GND	Ground	29	V_{LCD}	Power Supply +5.0V
15	SR1M	Minus signal of even channel 1 (LVDS)	30	V_{LCD}	Power Supply +5.0V



Rear view of LCM

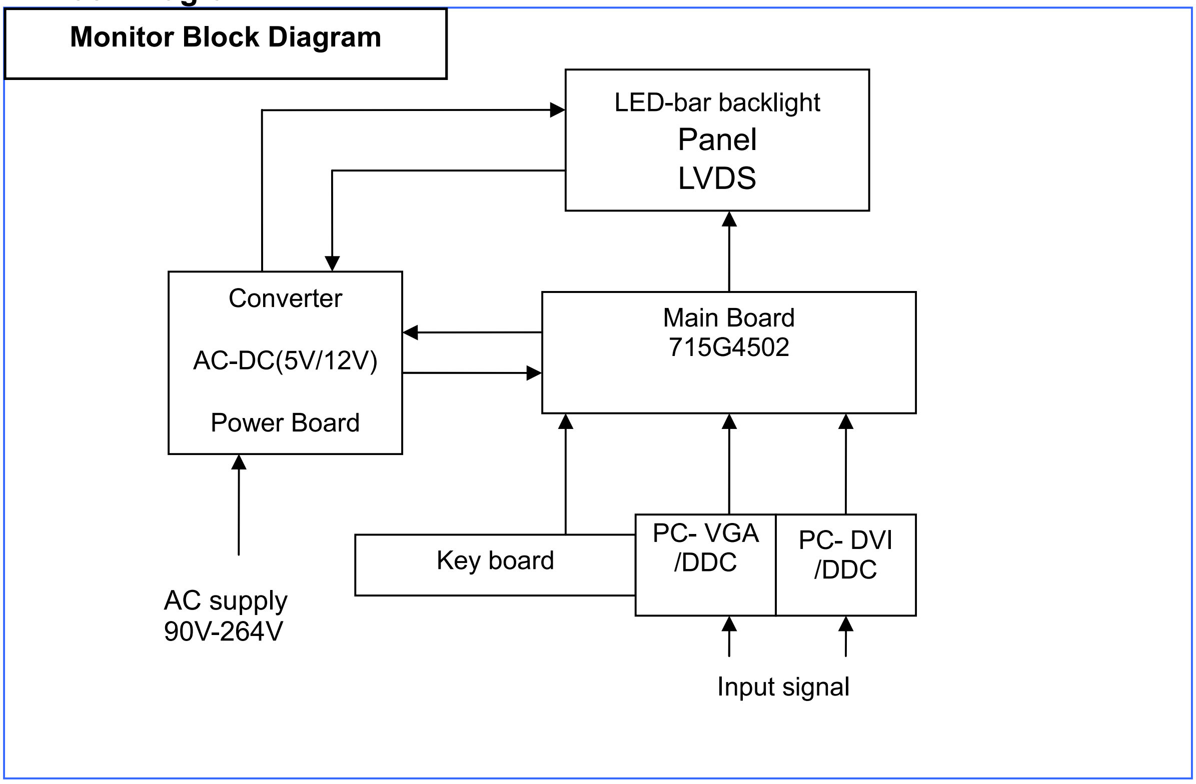
3.6 LED connector Interface

LED connector **on Backlight Unit** pin configuration CI1406M1HRB-NH

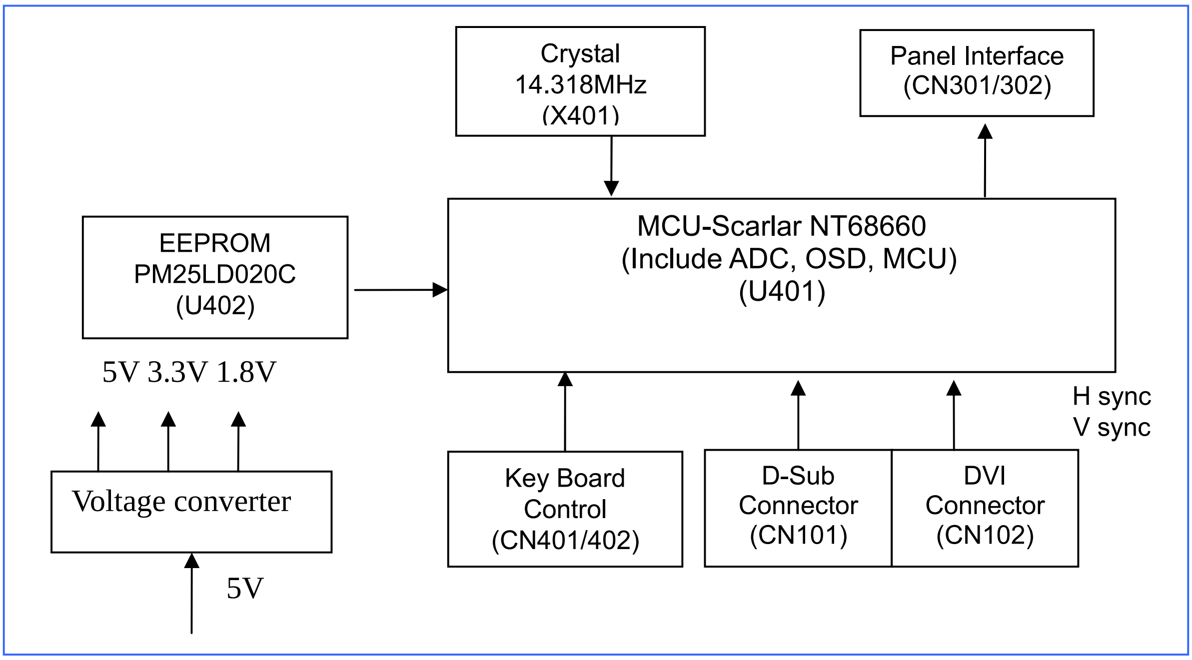
Pin	Symbol	Description
1	FB1	Channel1 Current Feedback
2	FB2	Channel2 Current Feedback
3	VLED	LED Power Supply
4	VLED	LED Power Supply
5	FB3	Channel3 Current Feedback
6	FB4	Channel4 Current Feedback

4.Block Diagram

4.1 LCD Block Diagram

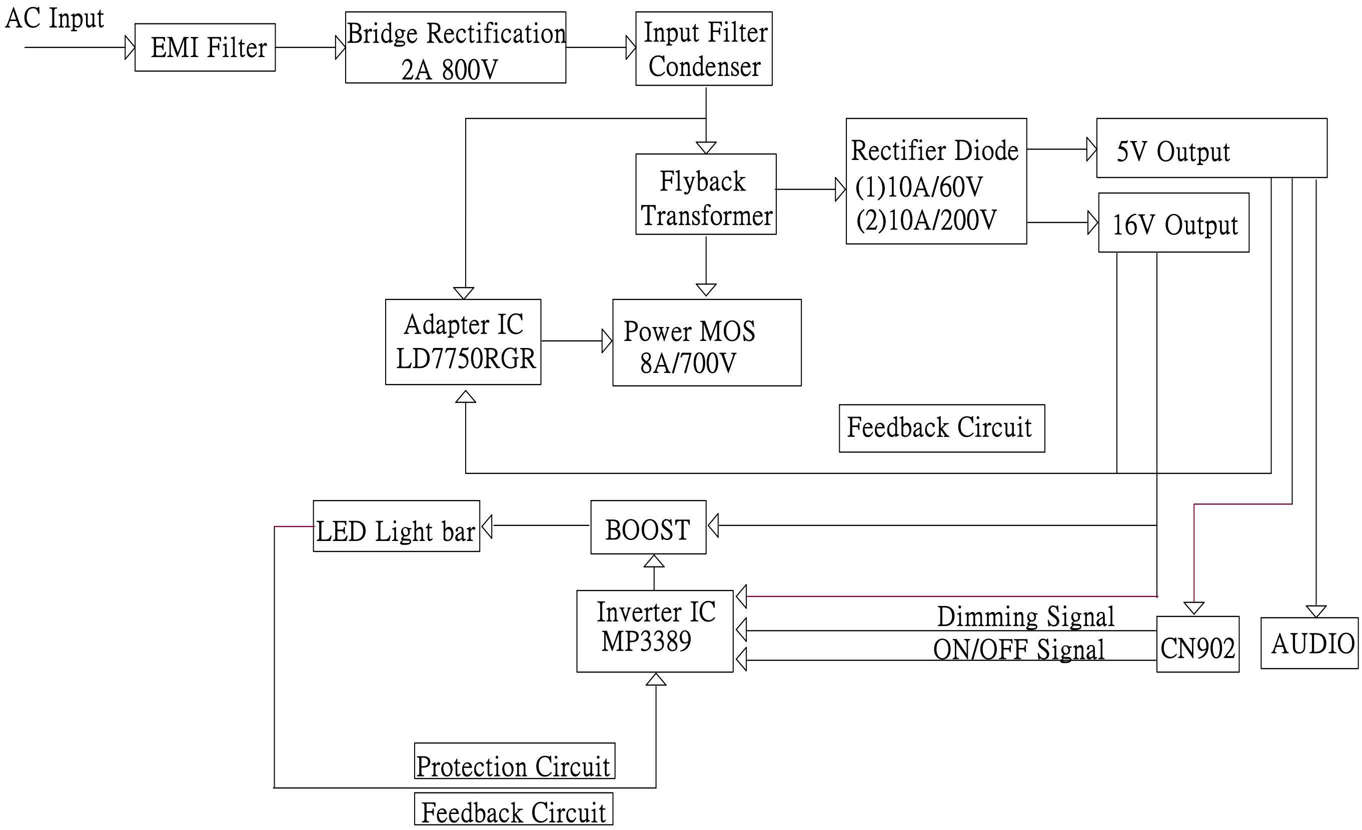


4.2 MainBoard Block Diagram

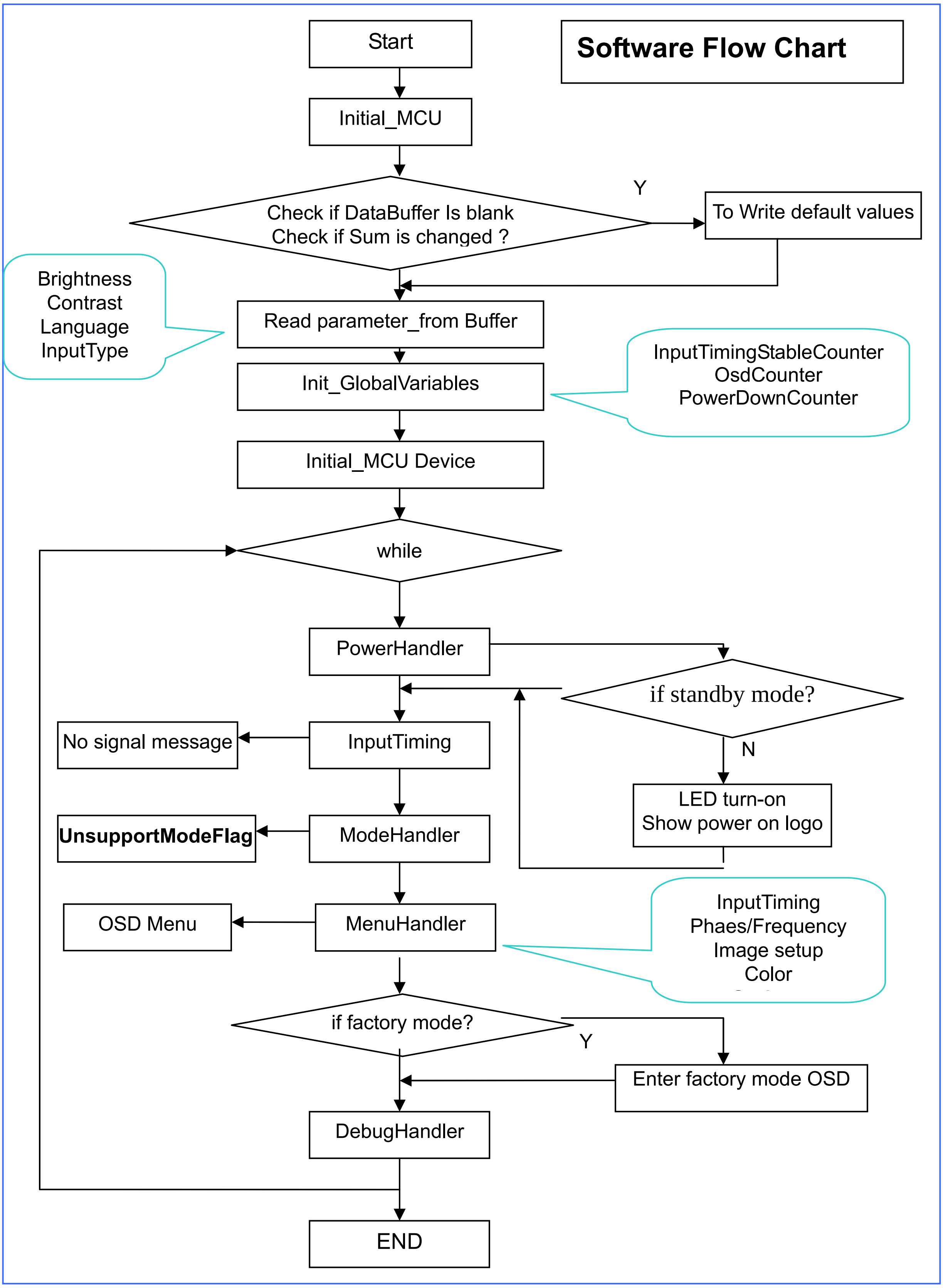


4.3 Power Board Block Diagram

MMD 21.5" LIPS Block Diagram

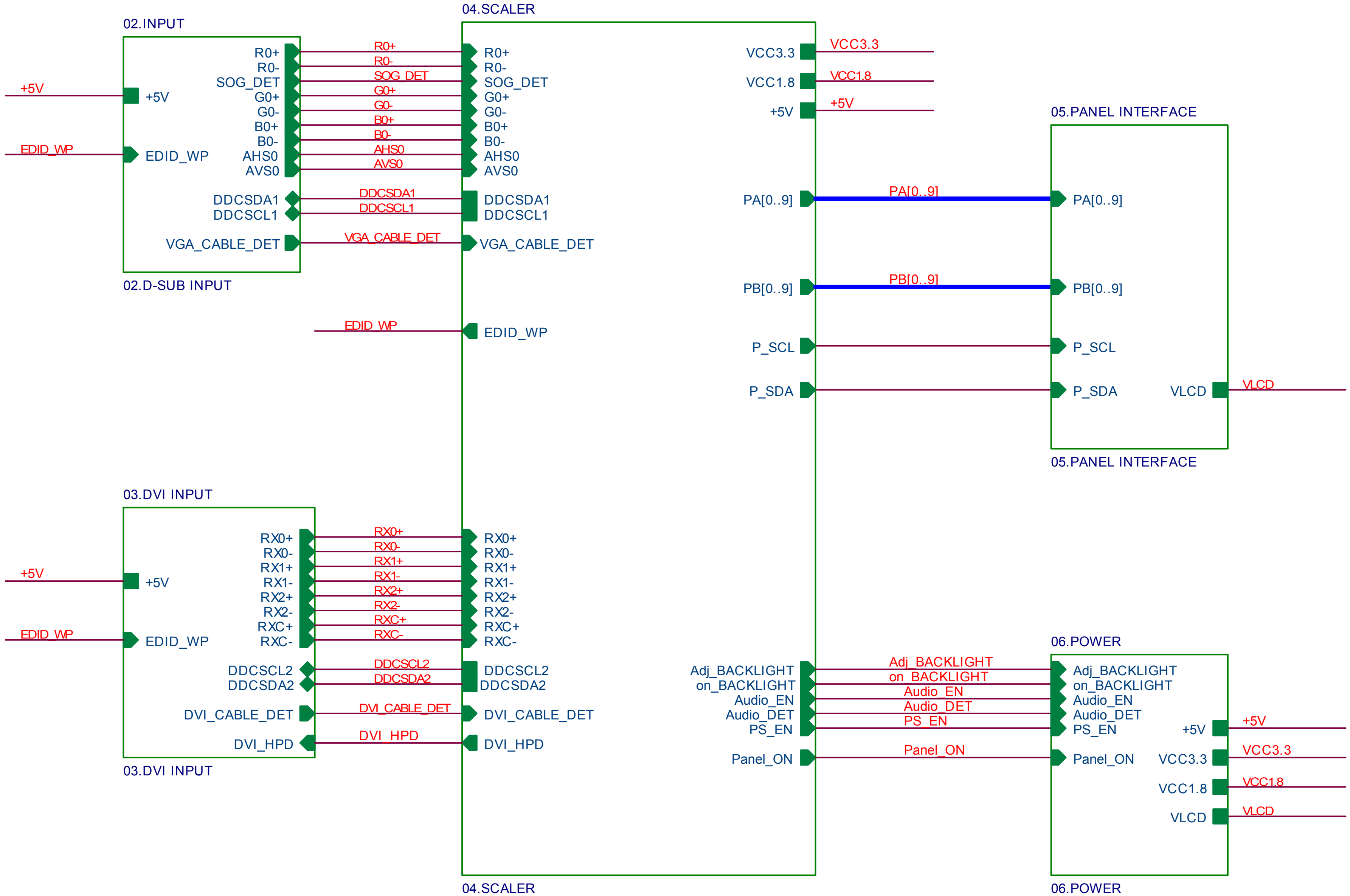


4.4 Software Flow Chart



5. Circuit Schematic

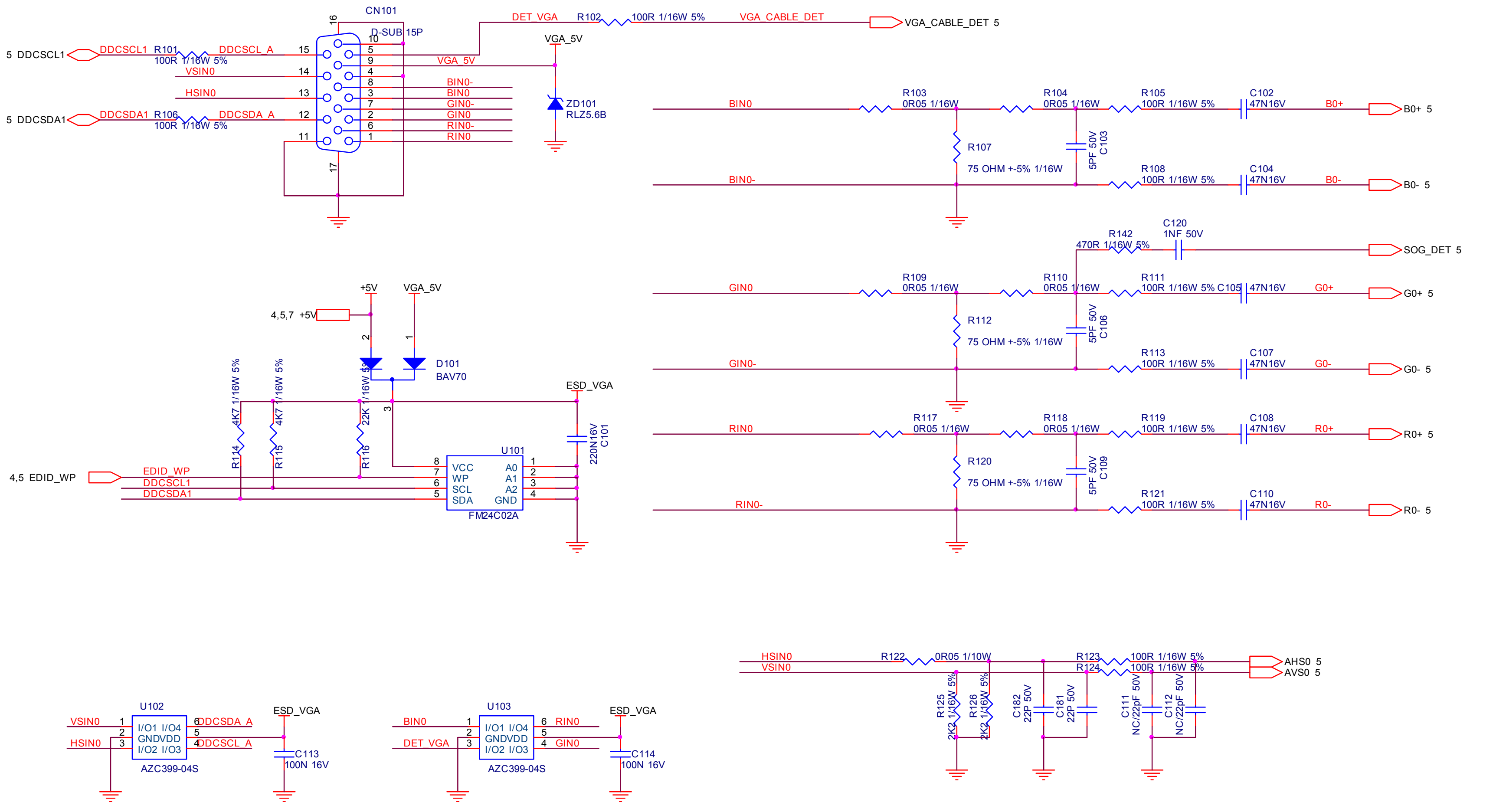
5.1 Main Board 715G4502M01



REVISION HISTORY

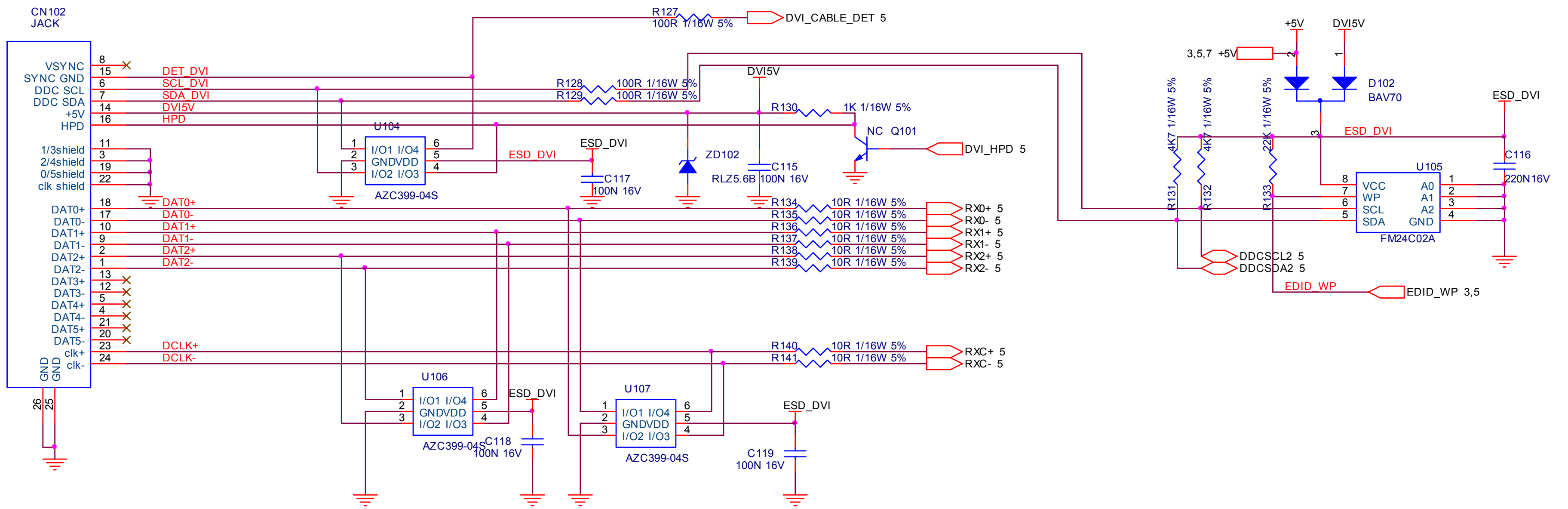
Date	Author	Ver	Reviser reason
	angus.huang	A	
	angus.huang	B	
	angus.huang	C	1.add P_SCL,P-SDA for LMT panel 2.add CN411 3.CN101 modify to 088G 35315FVCL
	Mark lin	E	ADD R487 / R488 1K/0402, R726 0R/0805
		1	FB407 change to 071G 56K121 M
	H.weiling		R401/R404/R405 change to 061G04023901FT
	H.weiling		Add U403

Input part---VGA/DDC



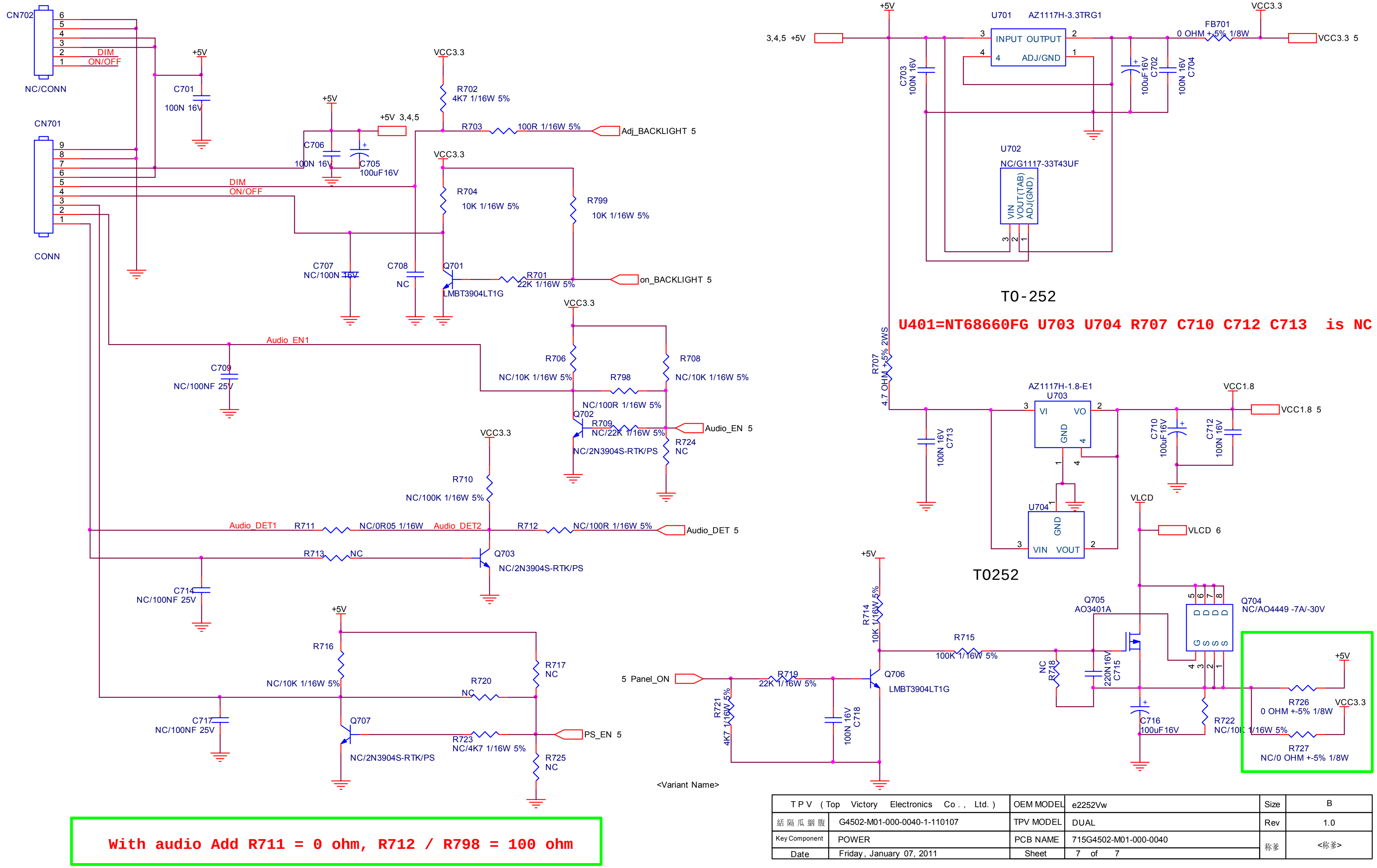
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	B
組 織 瓜 網 腹	G4502-M01-000-0040-1-110107	TPV MODEL	DUAL	Rev	1.0
Key Component	D-SUB I/O	PCB NAME	715G4502-M01-000-0040	稱爹	<稱爹>
Date	Friday, January 07, 2011	Sheet	3 of 7		

DVI input

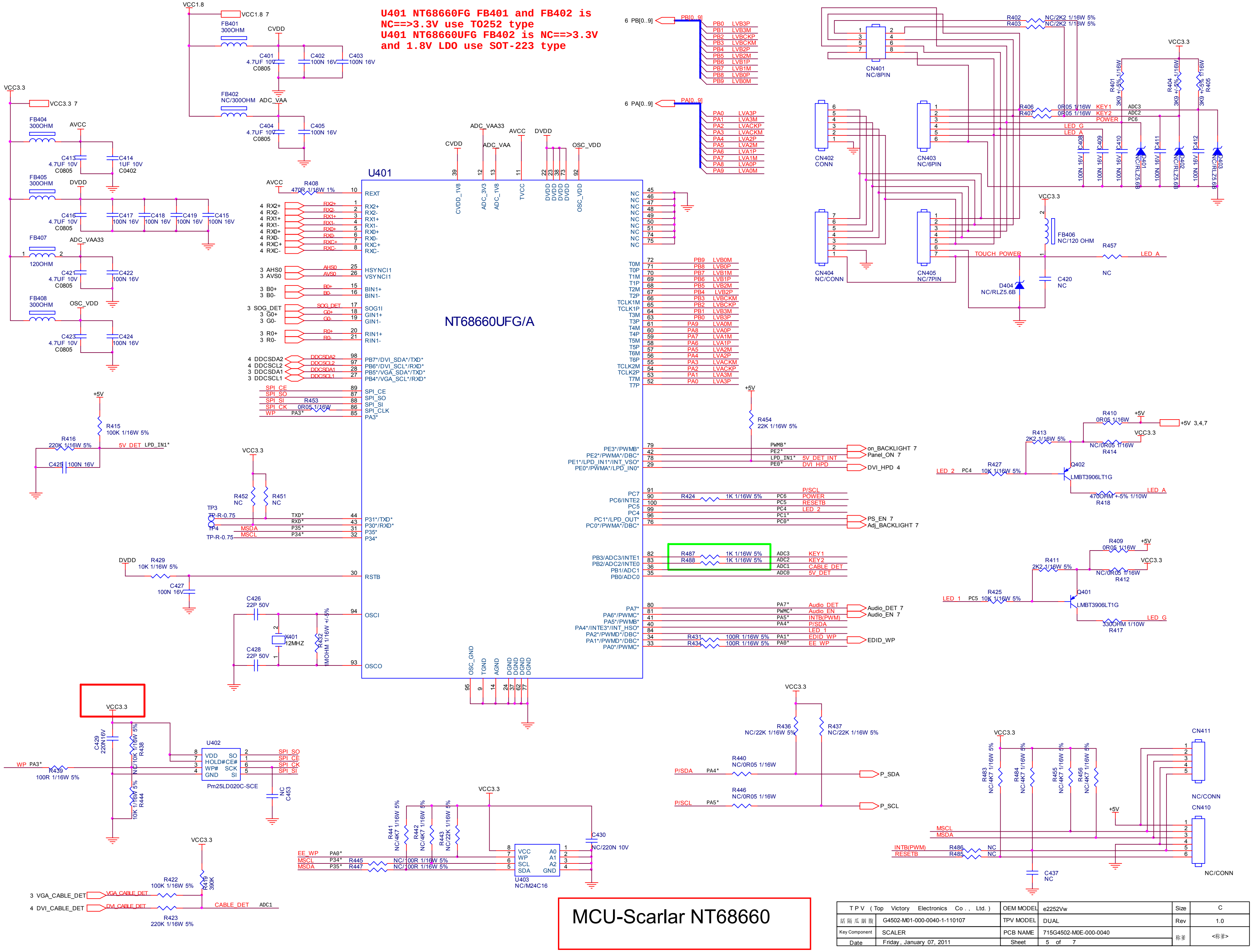


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	OTS	Size	B
紙 隔 瓜 網 腹	G4502-M01-000-0040-1-110107	TPV MODEL	DUAL	Rev	1.0
Key Component	DVI	PCB NAME	715G4502-M01-000-0040	称爹	<称爹>
Date	Friday, January 07, 2011	Sheet	4 of 7		

Power part---5V/3.3V/1.8V

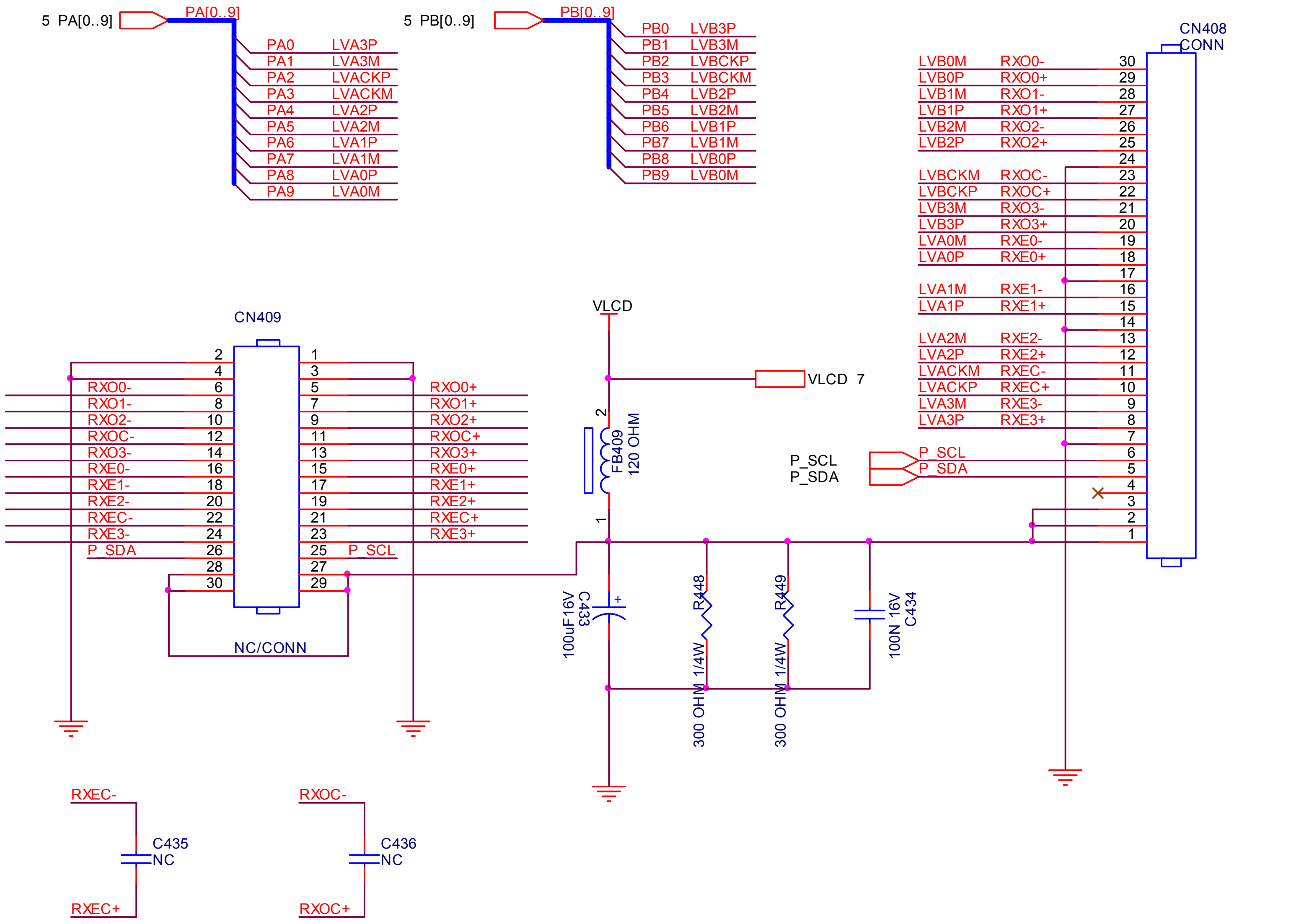


TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	B
純 陽 瓜 網 服	G4502-M01-000-0040-1-110107	TPV MODEL	DUAL	Rev	1.0
Key Component	POWER	PCB NAME	715G4502-M01-000-0040	称多	<称多>
Date	Friday, January 07, 2011	Sheet	7 of 7		



MCU-Scarlar NT68660

Output---LVDS connector



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	e2252Vw	Size	A
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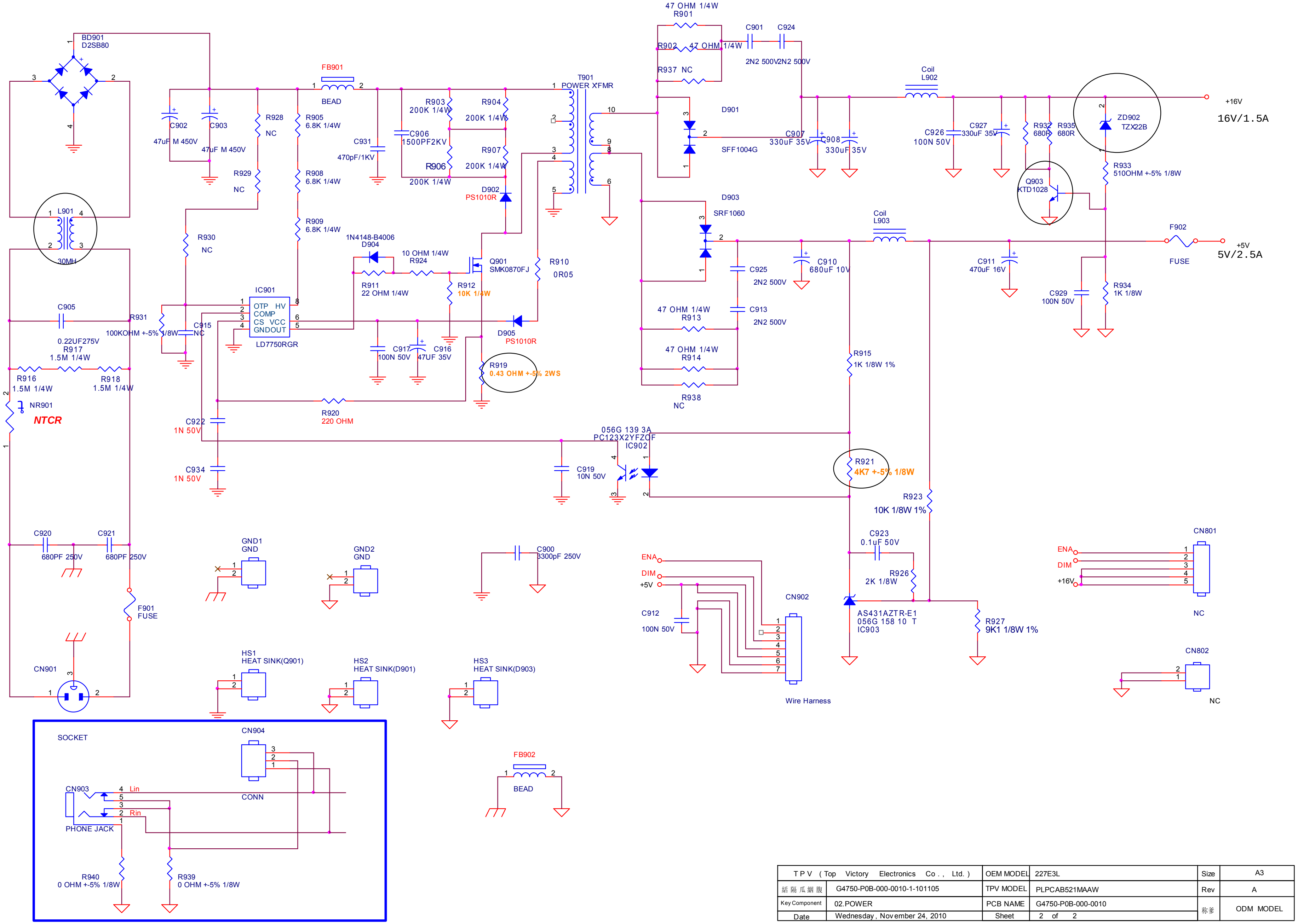
Key Component	LVDS PANEL I/O	PCB NAME	715G4502-M01-000-0040	称爹	<称爹>
Date	Friday, January 07, 2011	Sheet	6 of 7		

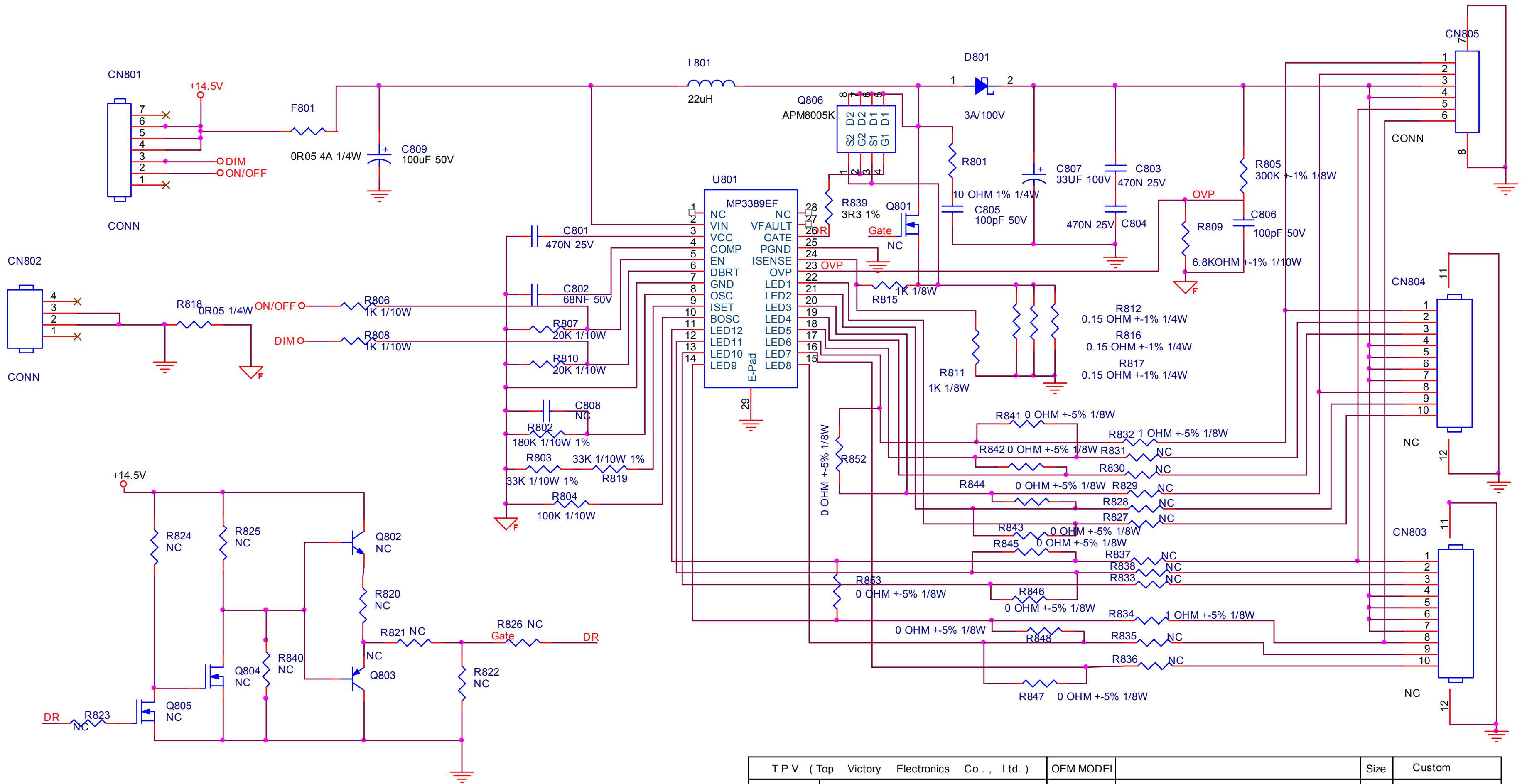
5.2 Power Board 715G4750-P02

--adapter 16V/5V



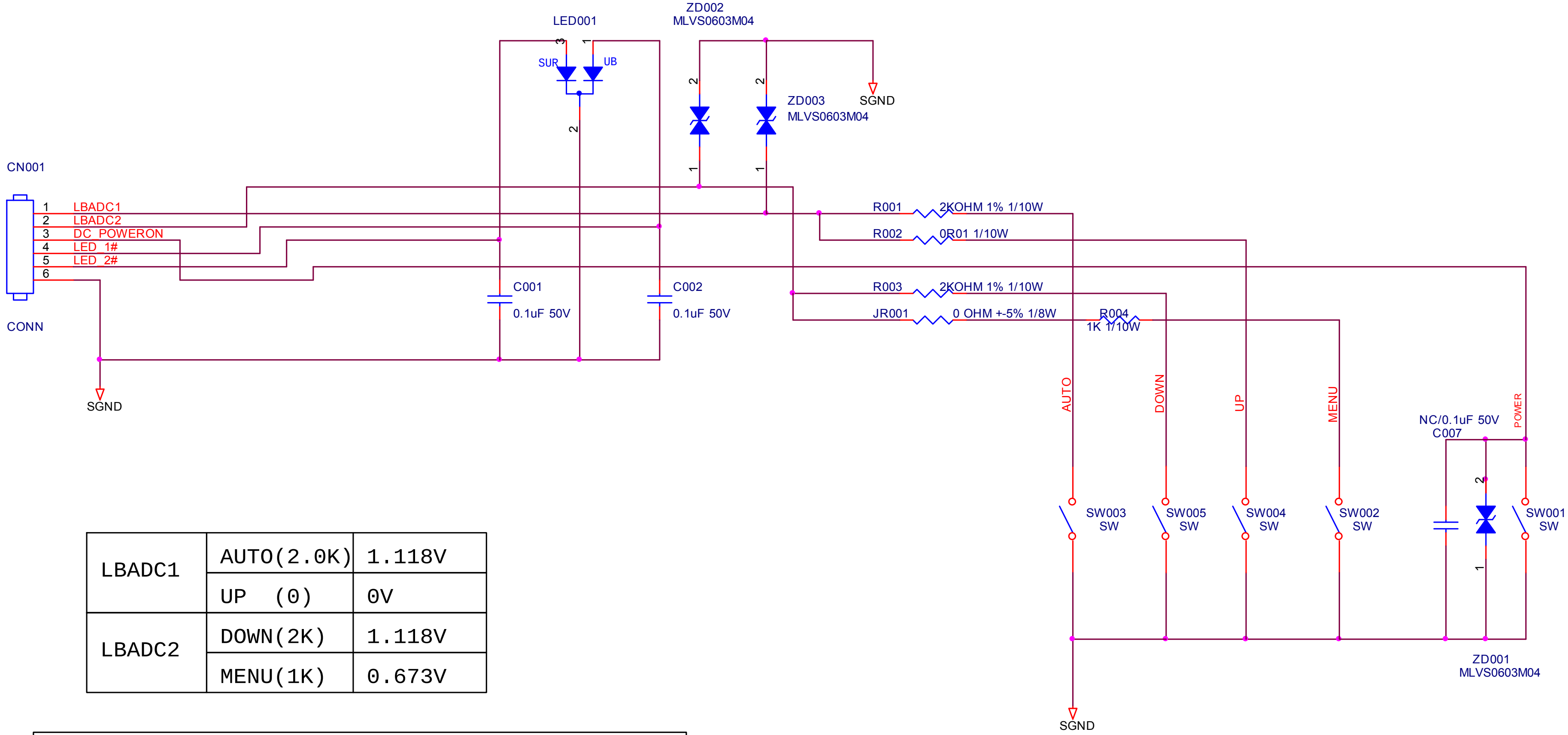
TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	227E3L	Size	A3
冠捷科技	G4750-P0B-000-0010-1-101105	TPV MODEL	PLPCAB521MAAW	Rev	A
Key Component	02.POWER	PCB NAME	G4750-P0B-000-0010	机种	ODM MODEL
Date	Wednesday, November 24, 2010	Sheet	2 of 2		

5.3 Converter Board 715G4013-P02

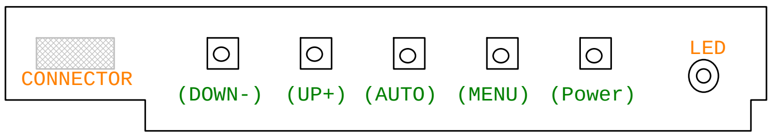


T P V (Top Victory Electronics Co., Ltd.)		OEM MODEL		Size	Custom
紡 騙 瓜 綢 腹	G4013-P0E-002-0040-6-100921	TPV MODEL	LNPCAA481GQCF	Rev	B
Key Component	01.CONVERTER	PCB NAME	715G4013P0B0020040	称爹	ODM MODEL
Date	Monday, October 25, 2010	Sheet	1 of 2		

5.4 Key Board 715G4851k

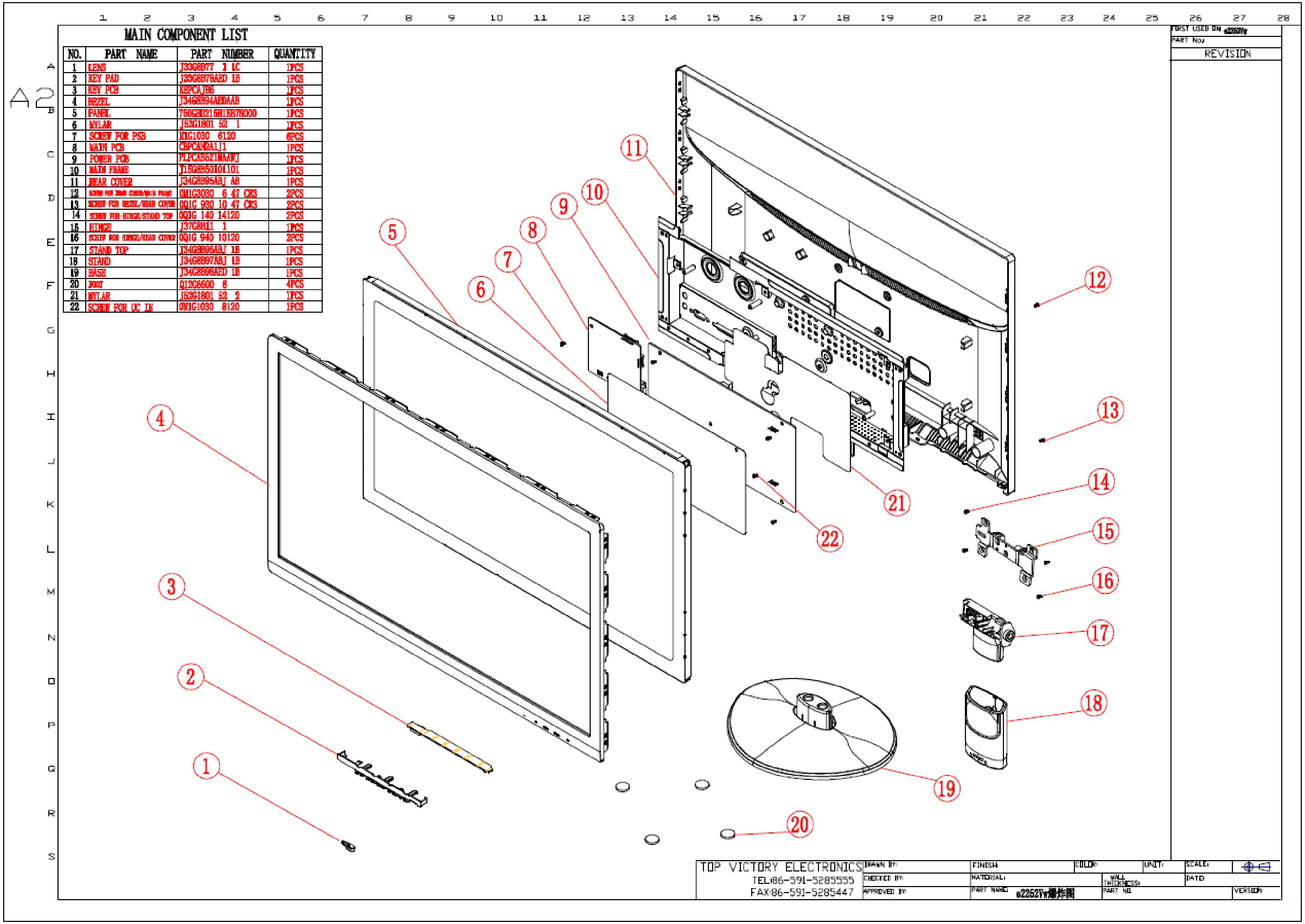


LBADC1	AUTO(2.0K)	1.118V
	UP (0)	0V
LBADC2	DOWN(2K)	1.118V
	MENU(1K)	0.673V



TPV (Top Victory Electronics Co., Ltd.)		OEM MODEL	N/A	Size	B
紆 隔 瓜 網 腹	715G4851-K0C-000-0010	TPV MODEL	e2252Vw	Rev	C
Key Component	2.0.key	PCB NAME	715G4851-K0C-000-0010	称爹	<称爹>
Date	Wednesday, February 16, 2011	Sheet	2 of 2		

6. Monitor exploded view

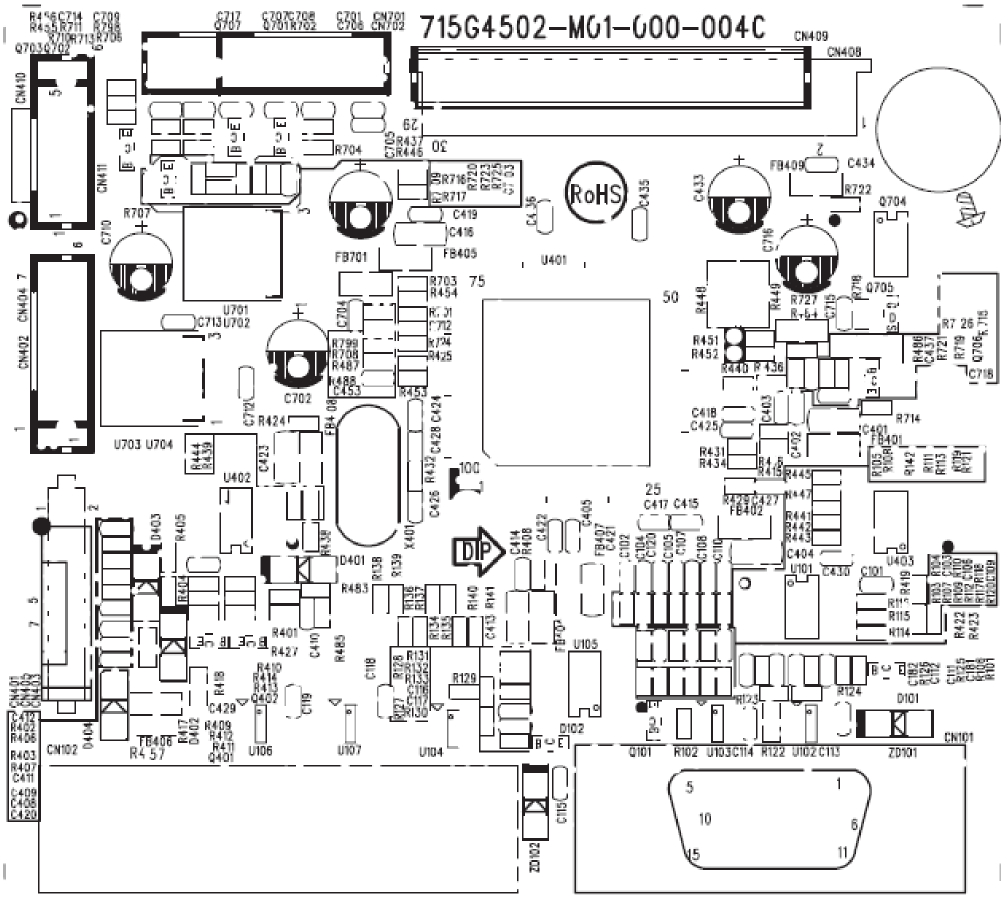


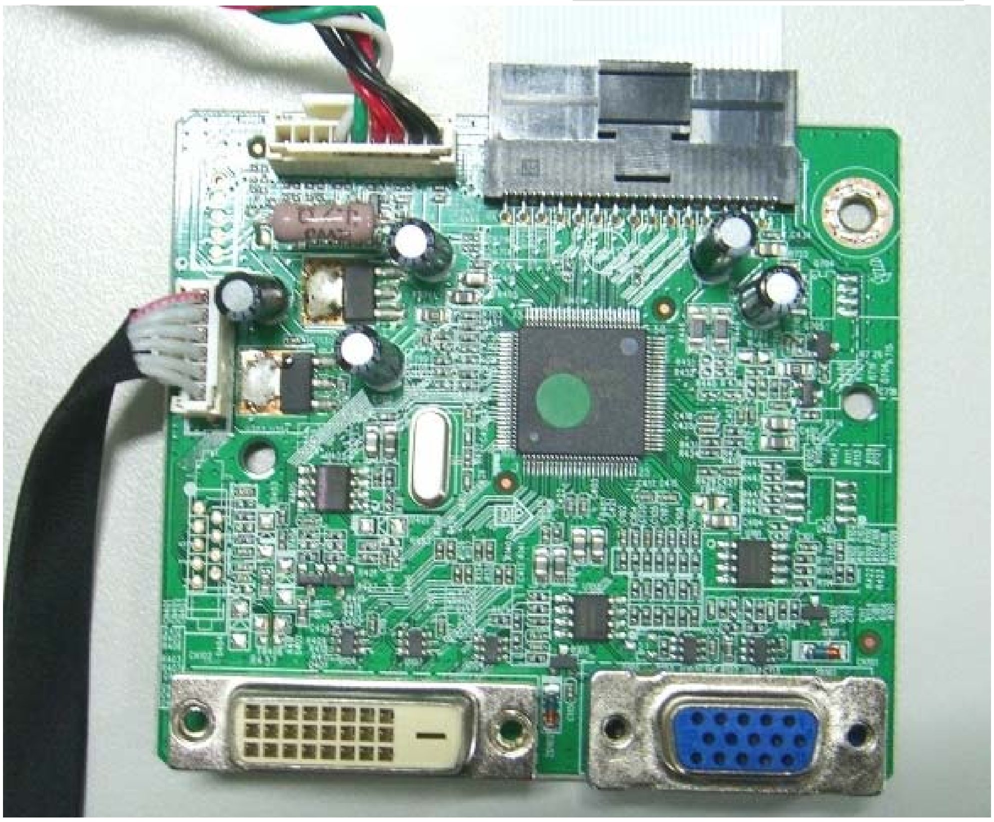
MAIN COMPONENT LIST

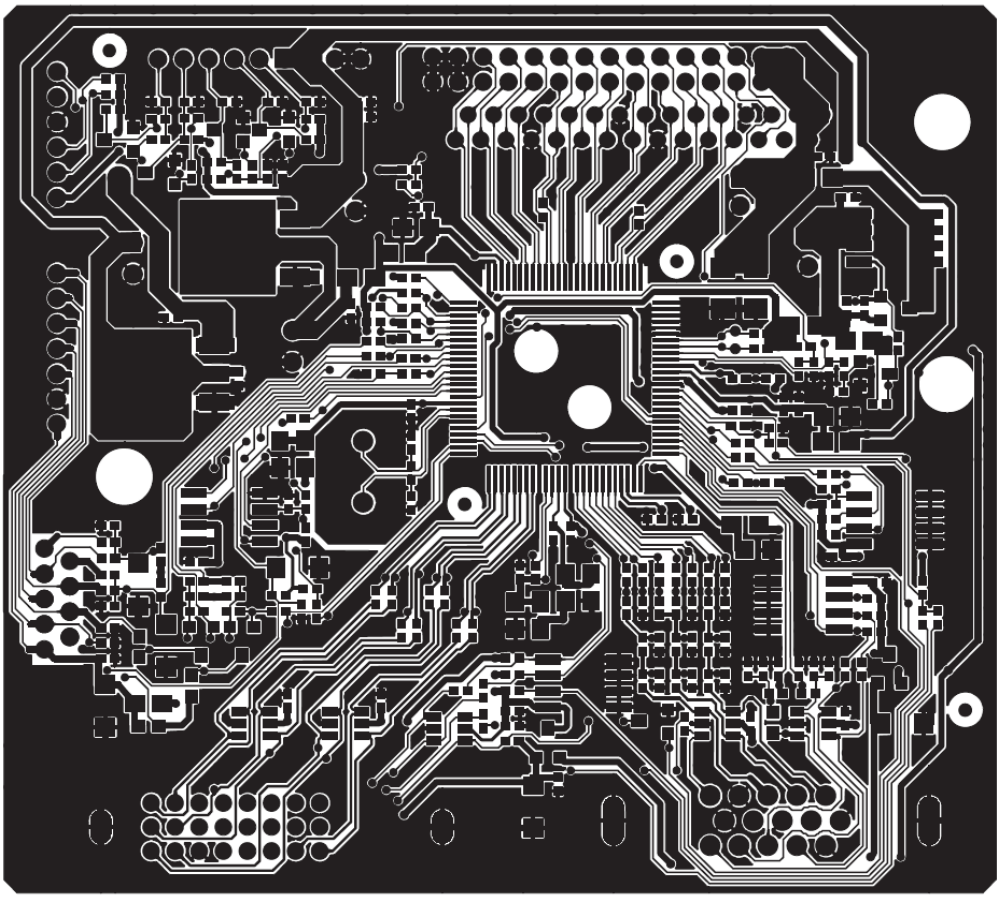
NO.	PART NAME	PART NUMBER	QUANTITY
1	LENS	J33G8B77 1 LC	1PCS
2	KEY PAD	J33G8B78AED 1B	1PCS
3	KEY PCB	KEPCAJB6	1PCS
4	BEZEL	J34G8B94AEDAAB	1PCS
5	PANEL	750GBU215H1BB7N000	1PCS
6	MYLAR	J52G1801 52 1	1PCS
7	SCREW FOR PSB	M1G1030 6120	6PCS
8	MAIN PCB	CBPCAM2A1J1	1PCS
9	POWER PCB	PLPCAB621MAANJ	1PCS
10	MAIN FRAME	J15G8B50101101	1PCS
11	REAR COVER	J34G8B95ABJ AB	1PCS
12	SCREW FOR REAR COVER/MAIN FRAME	0M1G3030 6 47 CR3	2PCS
13	SCREW FOR BEZEL/REAR COVER	0Q1G 930 10 47 CR3	2PCS
14	SCREW FOR HINGE/STAND TOP	0Q1G 140 14120	2PCS
15	HINGE	J37G8B11 1	1PCS
16	SCREW FOR HINGE/REAR COVER	0Q1G 940 10120	2PCS
17	STAND TOP	J34G8B96ABJ 1B	1PCS
18	STAND	J34G8B97ABJ 1B	1PCS
19	BASE	J34G8B98AED 1B	1PCS
20	FOOT	Q12G8600 6	4PCS
21	MYLAR	J52G1801 52 2	1PCS
22	SCREW FOR DC IN	0M1G1030 8120	1PCS

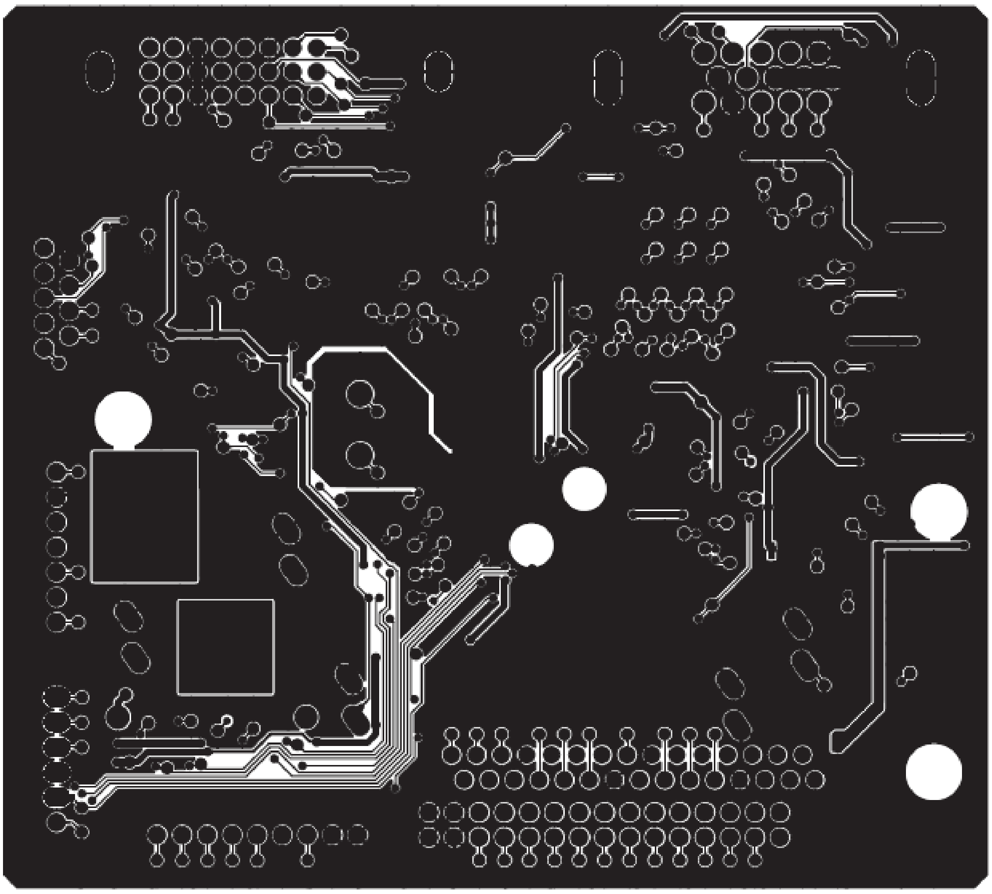
7. PCB Layout

7.1 MainBoard 715G4502

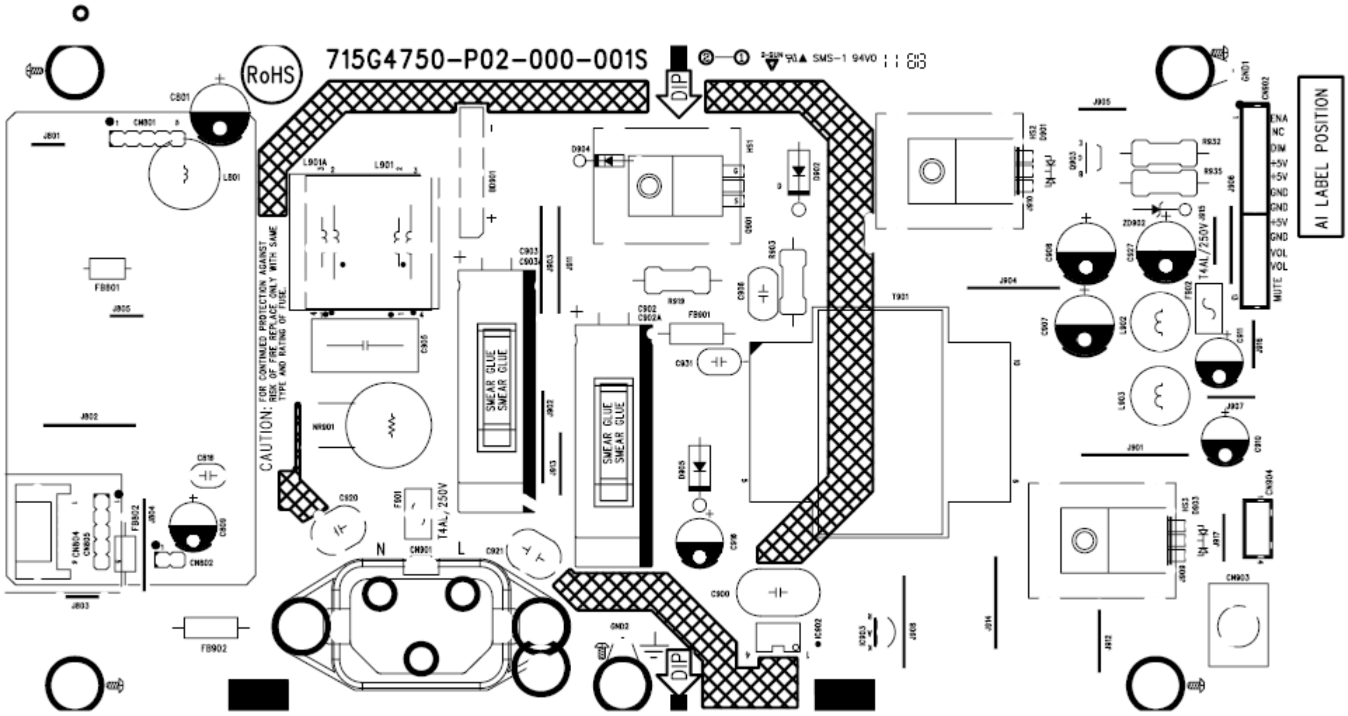


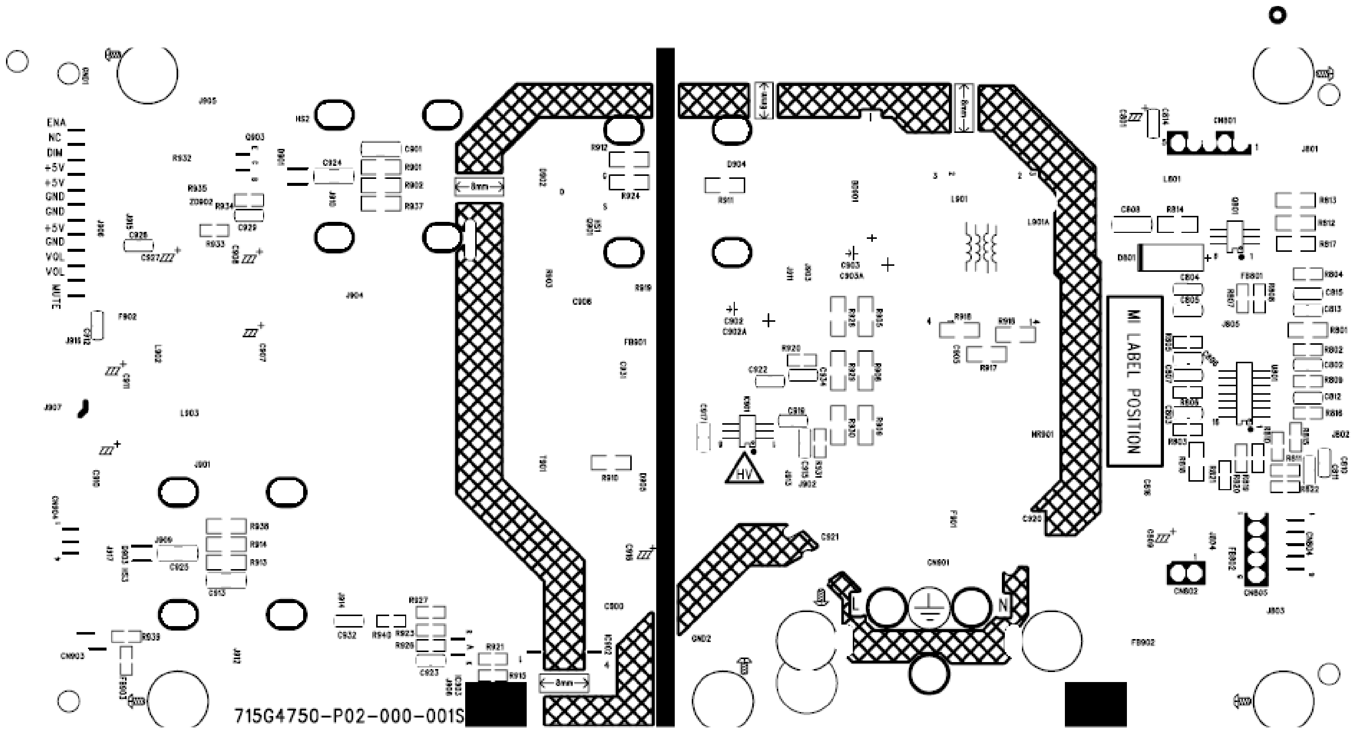


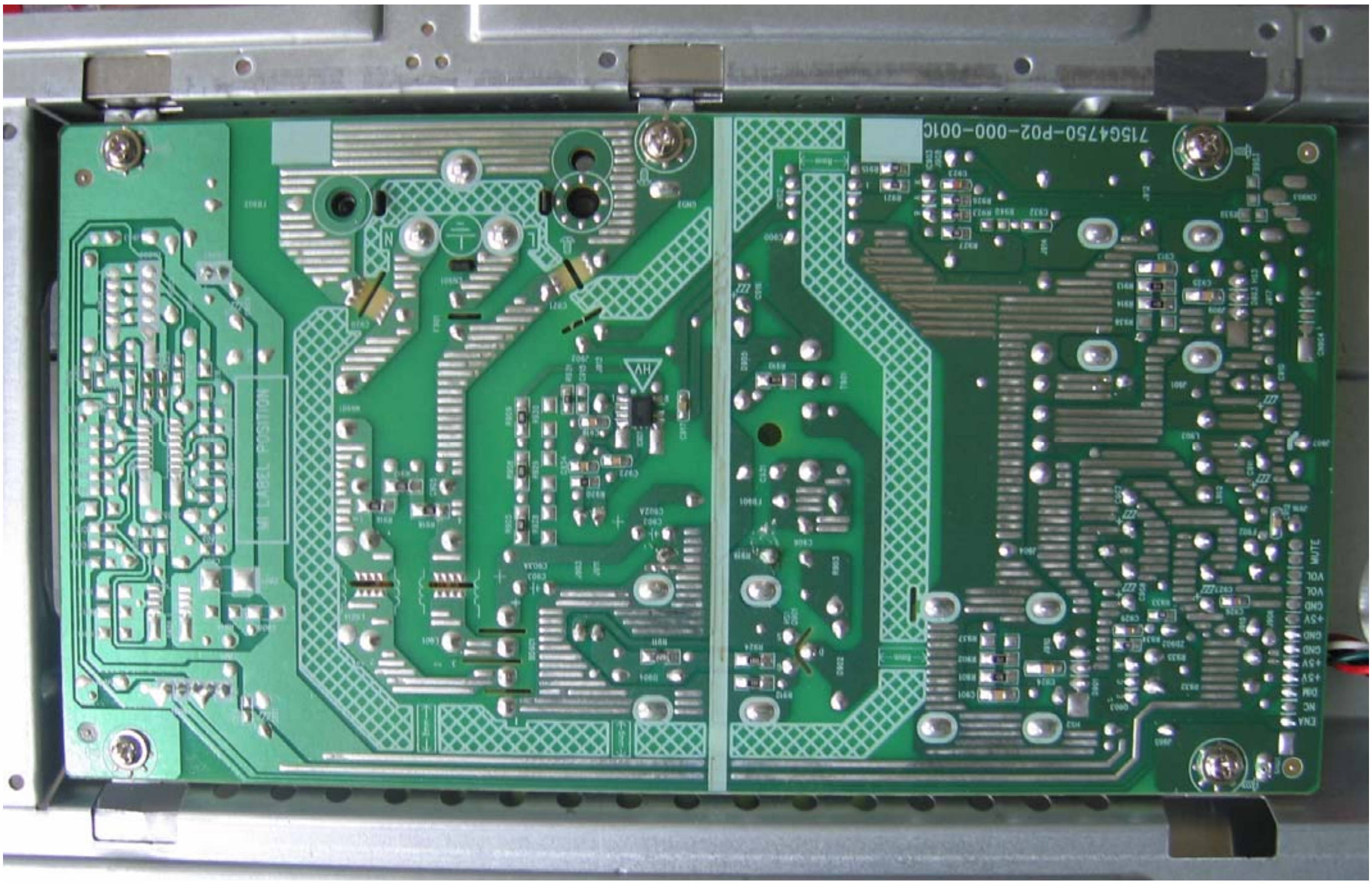




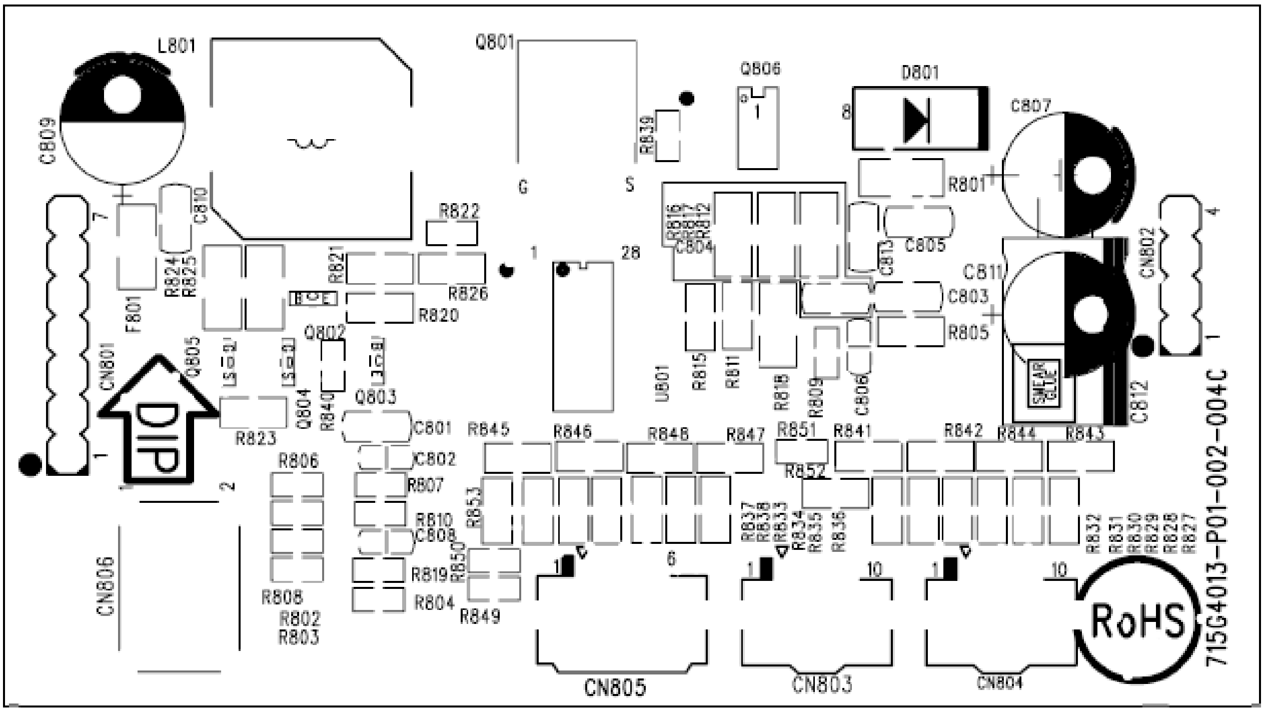
7.2 PowerBoard 715G4750-P02

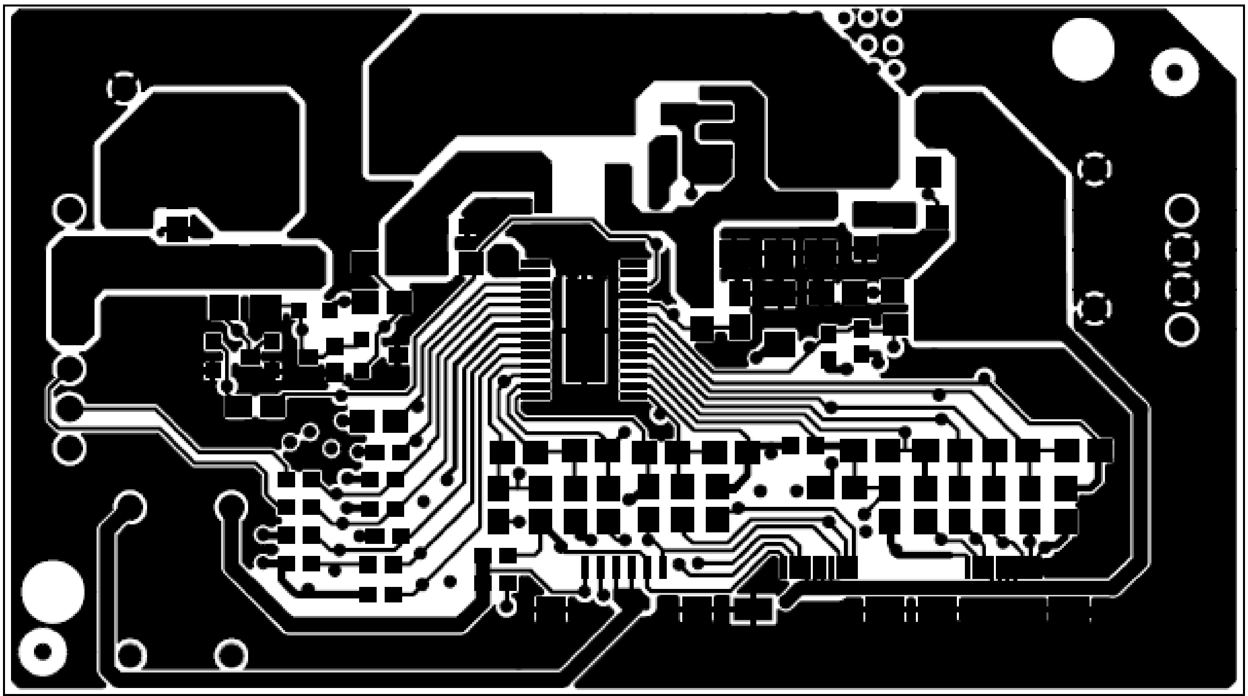


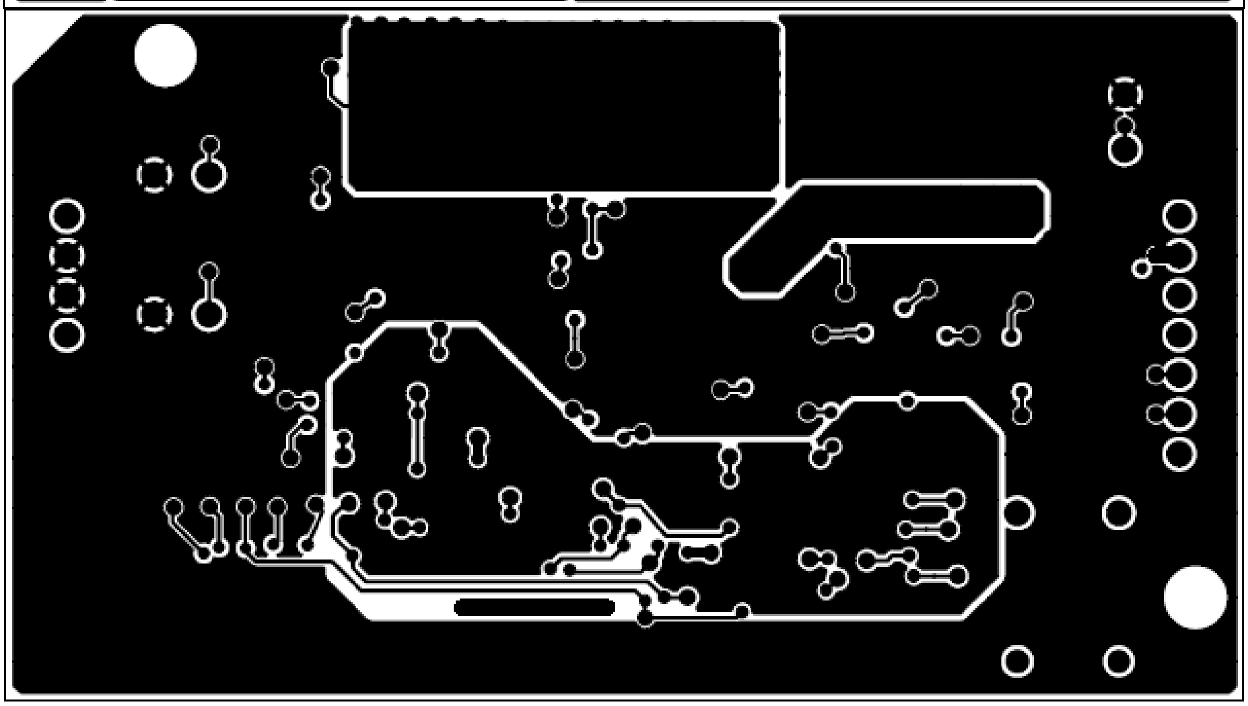




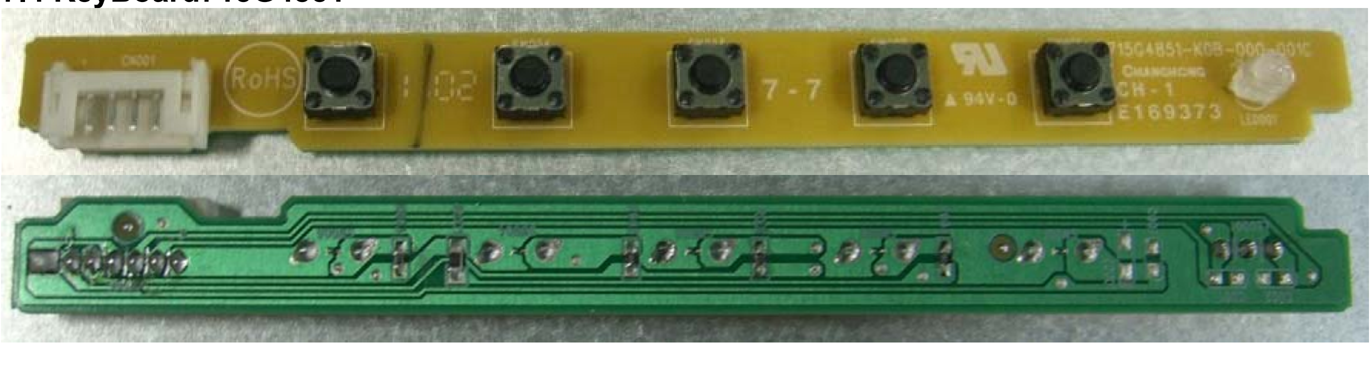
7.3 Converter Board 1-715G4013P02







7.4 KeyBoard715G4851



8. Maintenance

8.1 Maintainability Requirement

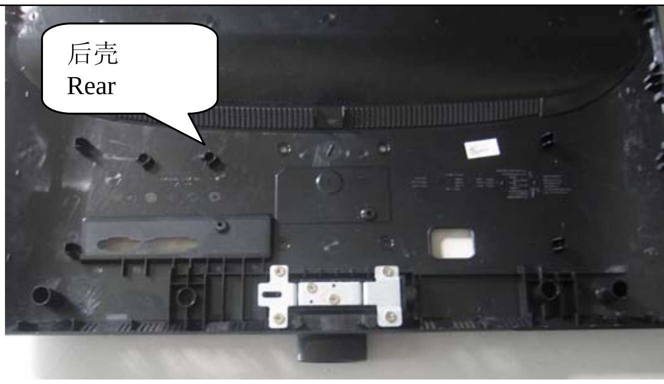
1. Voltmeter. & digital multimeter
2. Oscilloscope.
3. Pattern Generator.
4. DDC Tool with Compatible Computer.
5. Alignment Tool.
6. LCD Color Analyzer.
7. Service Manual.
8. User Manual.
9. repair tools etc

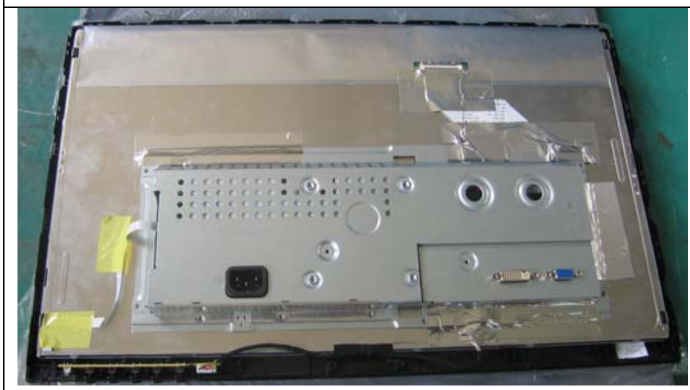
8.2 Disassembly SOP

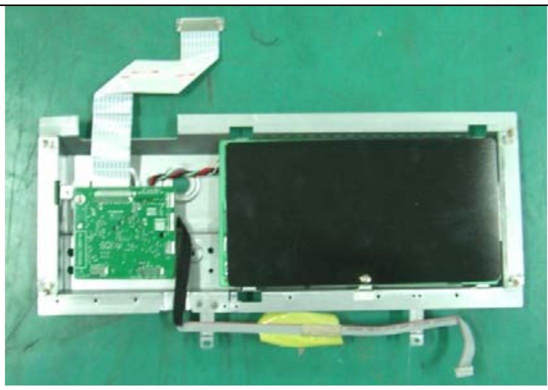
appropriate tools

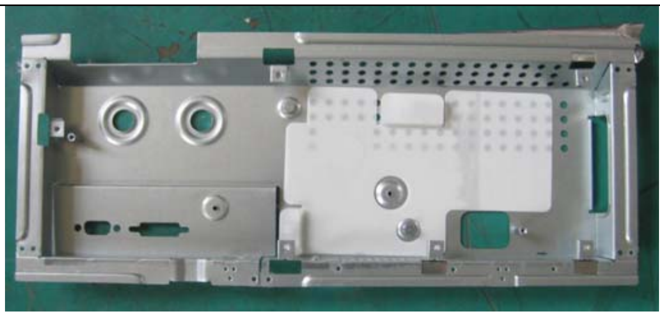
Phillips screwdriver	
spacer screwdriver	
C/D Disassembly Tool	
Gloves or soft cloth	
Prepare soft cloth and sponge as working platform	

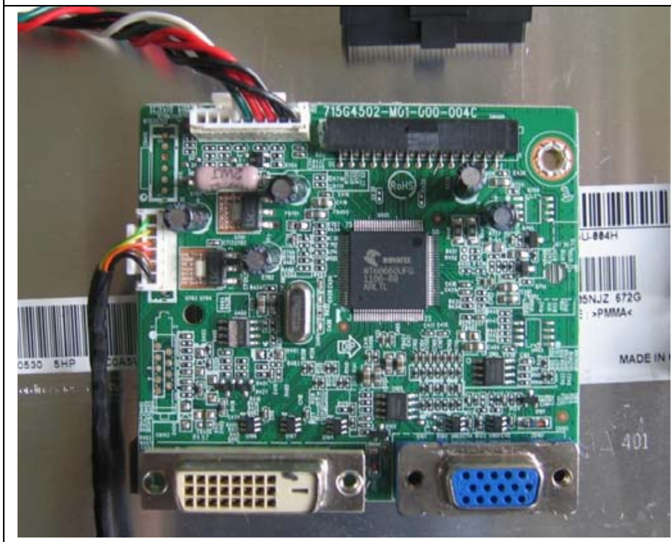
Disassembly SOP

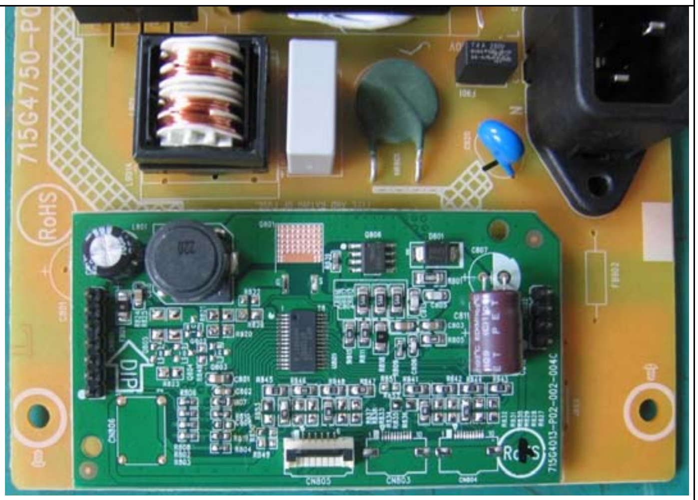


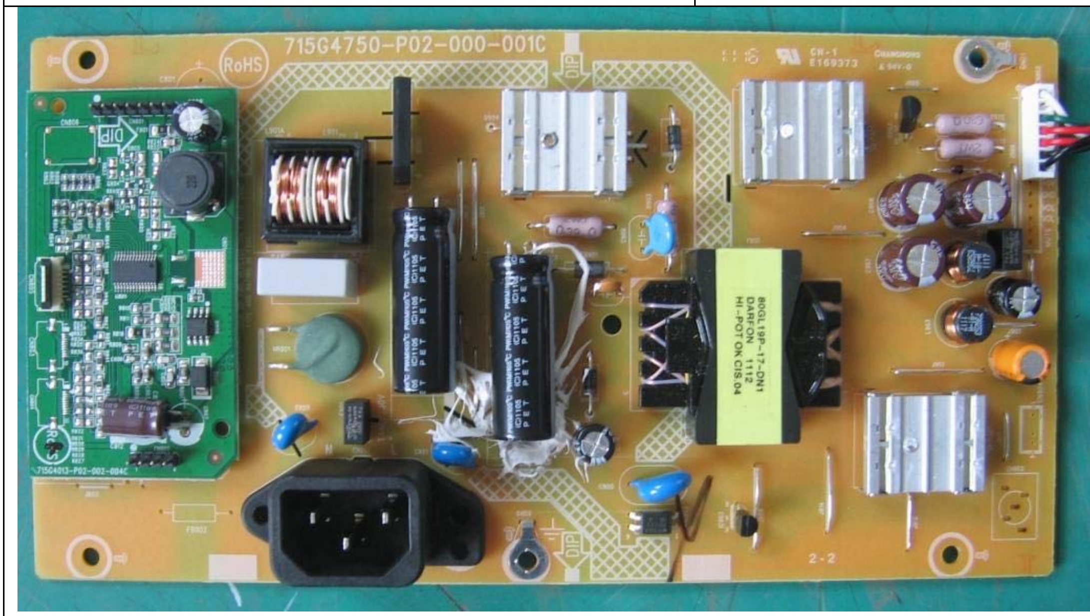


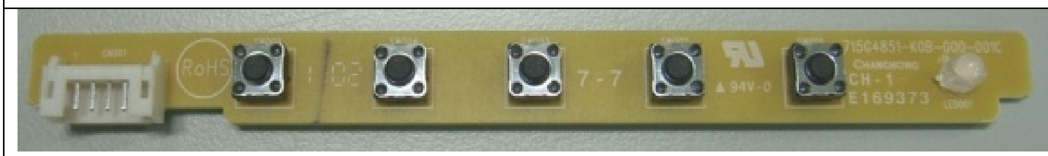




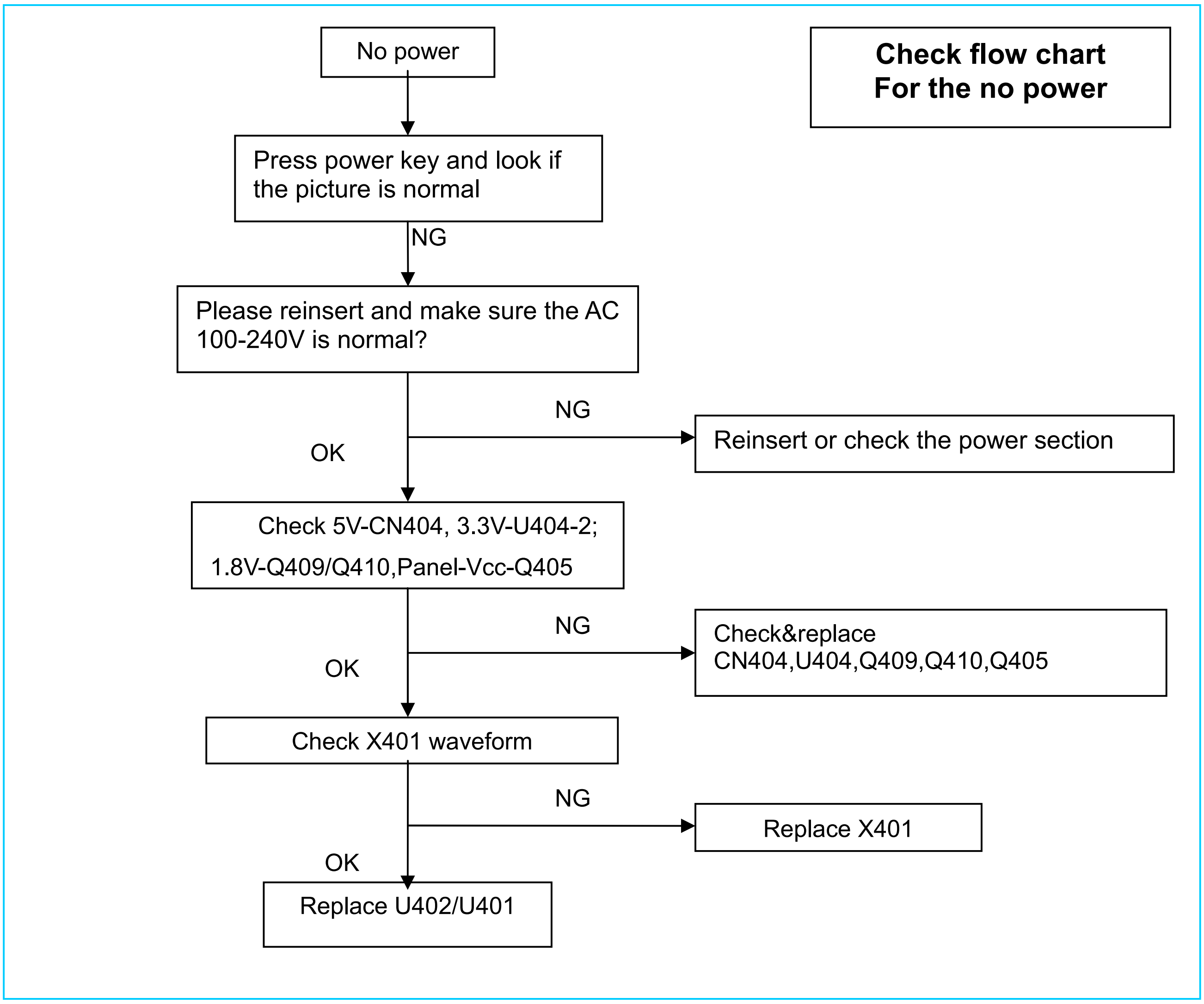

715G4502-M01-000-004C



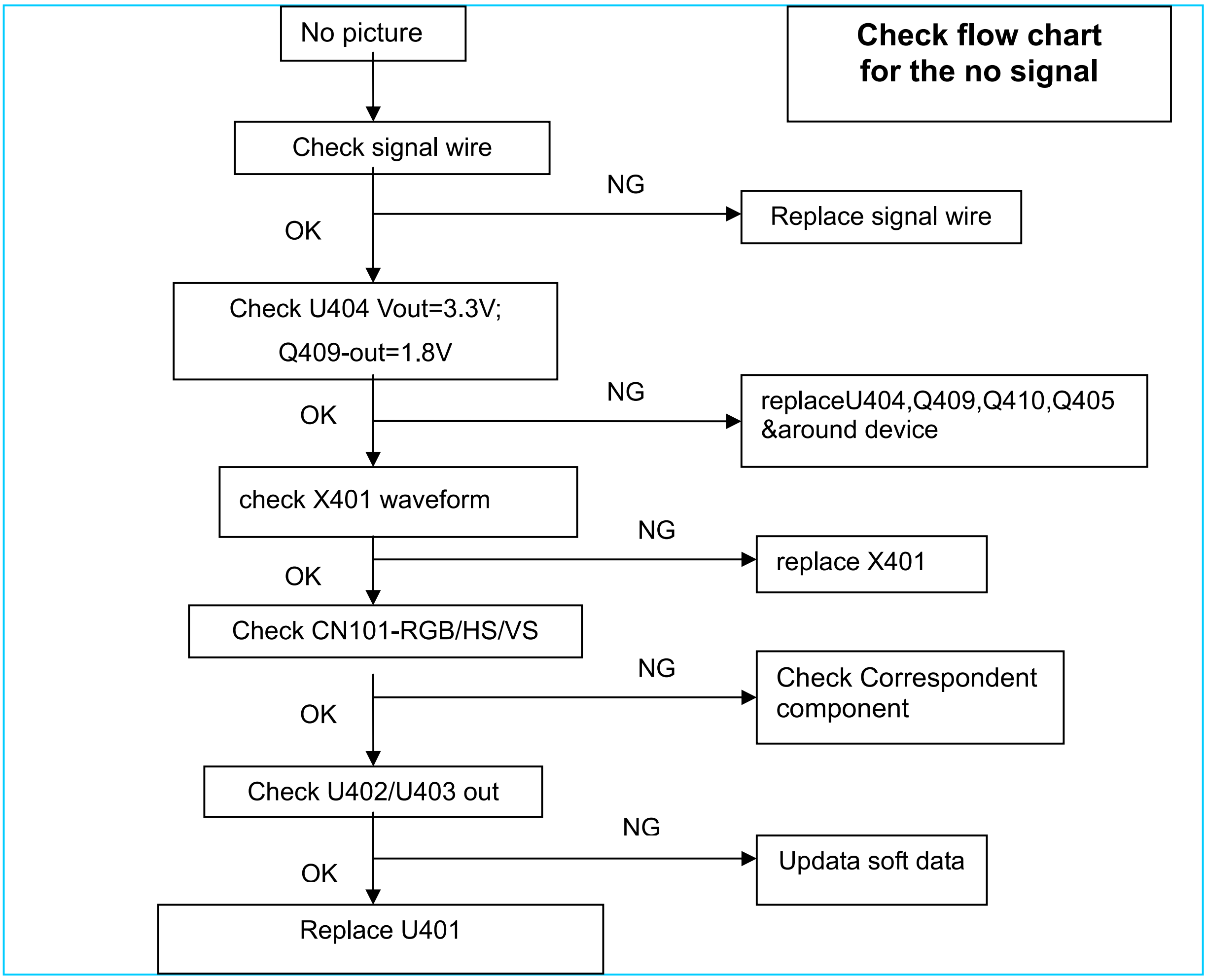

715G4750-P02-000-001C
80GL19P-17-DN1
DARFON 1112
HI-POT OK CIS.04


CH-1
E169373

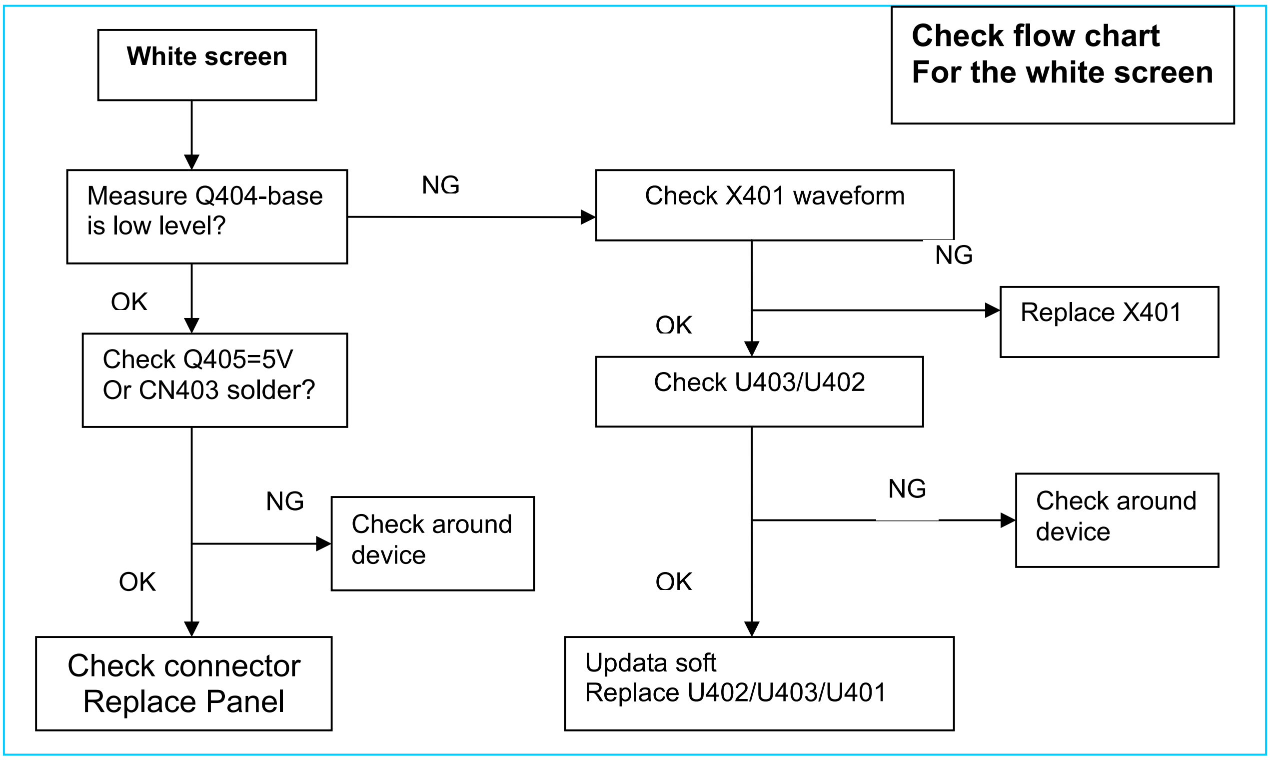
8.3 Trouble Shooting
Main Board---No Power



No picture (LED orange)

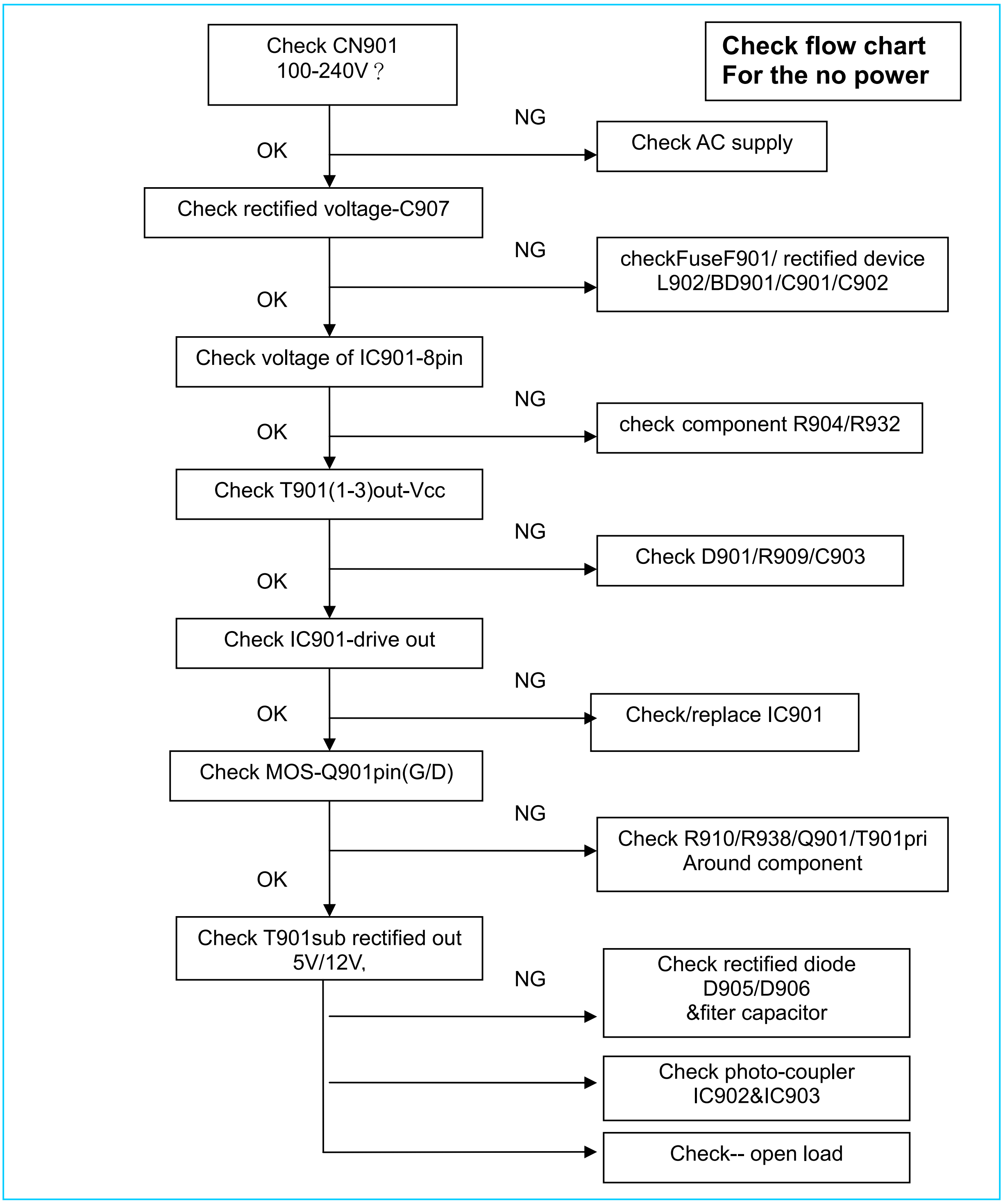


Whitescreen

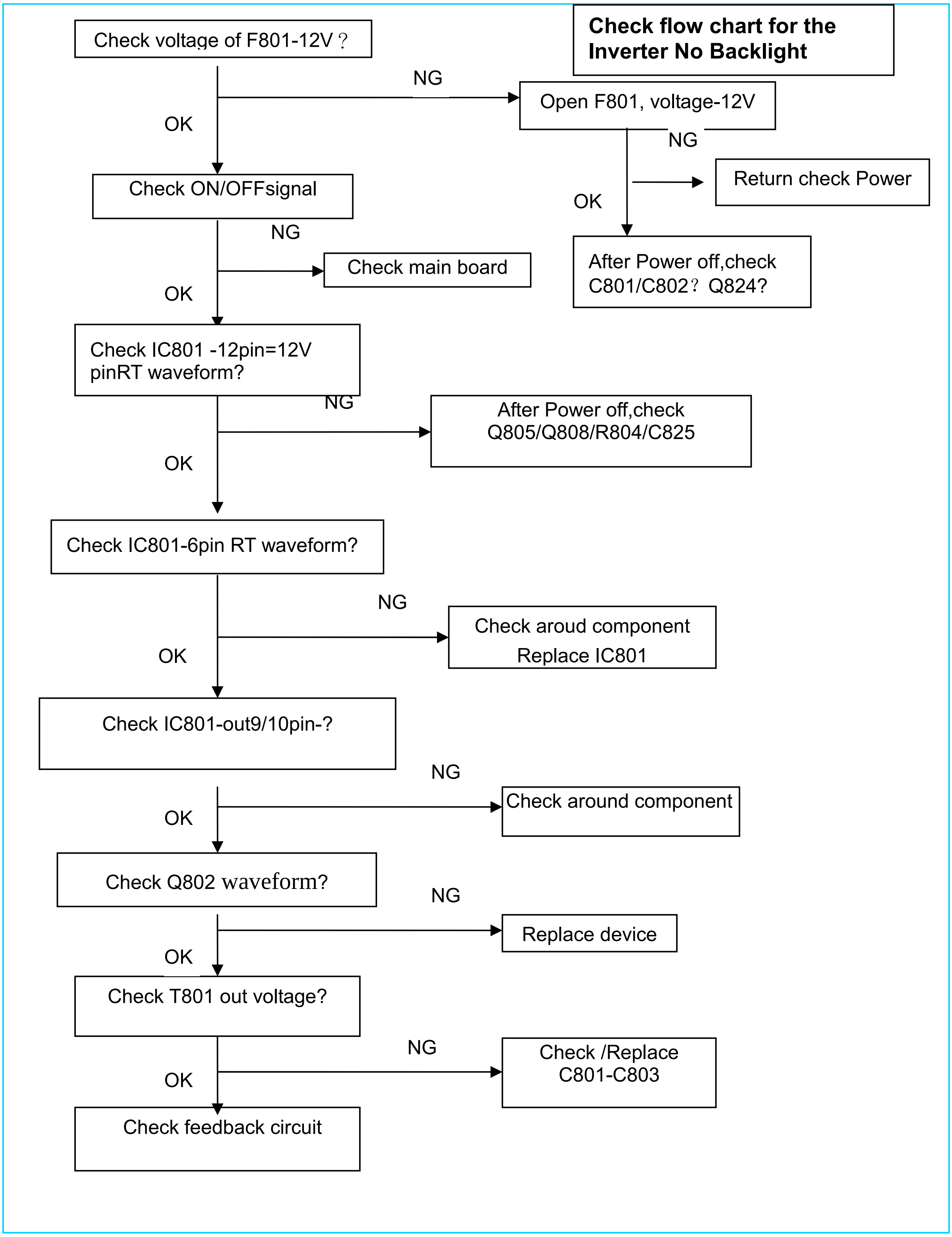


Power Board---

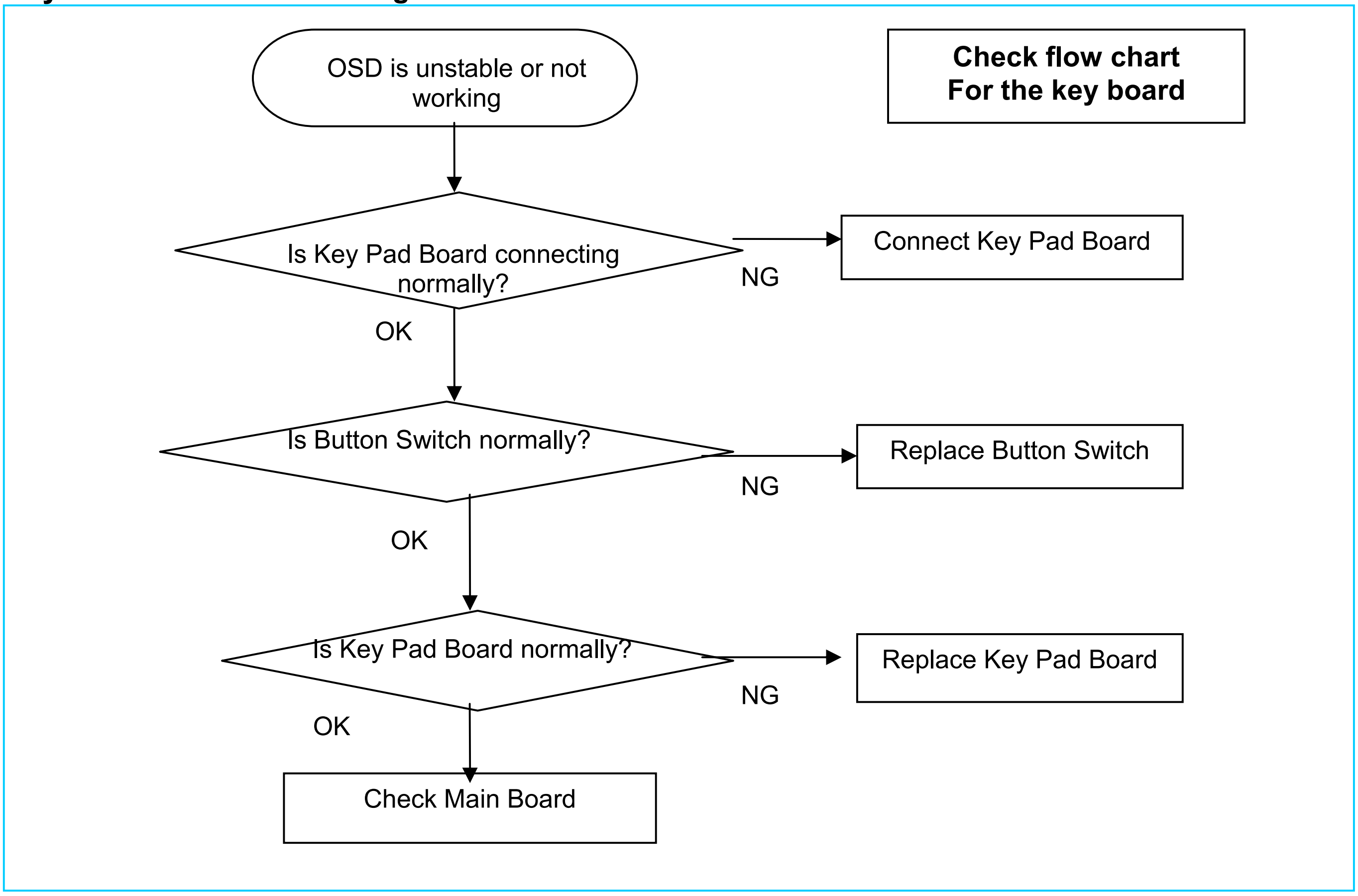
No Power 5V/12V



No Backlight of panel



Key Board---OSD no working



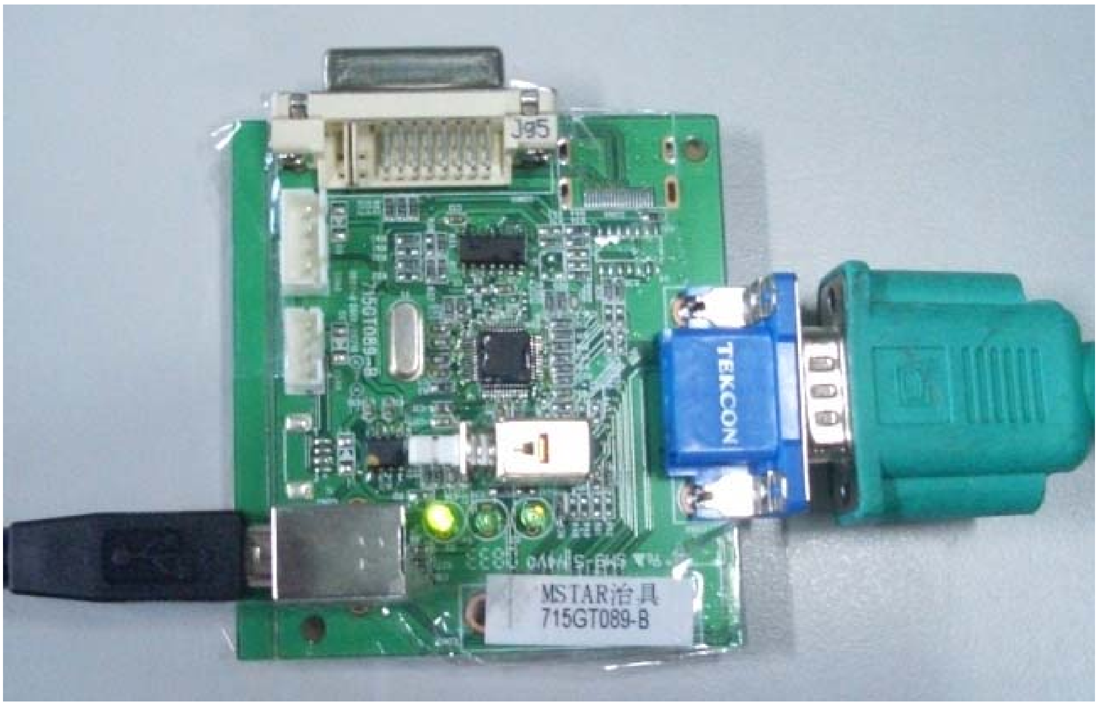
8.4 Software update step

Product information

	756GJBCB AA025	MCU ASS'Y main board CBPCAN2A1J1
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8
SMTCA-U402	100GANGI000B11	AOC_i2252Vwe_Nt68660_LGD_LM215WF3-SLC1
U401	056G 562369	SCALER NT68660UFG/B TQFP-100

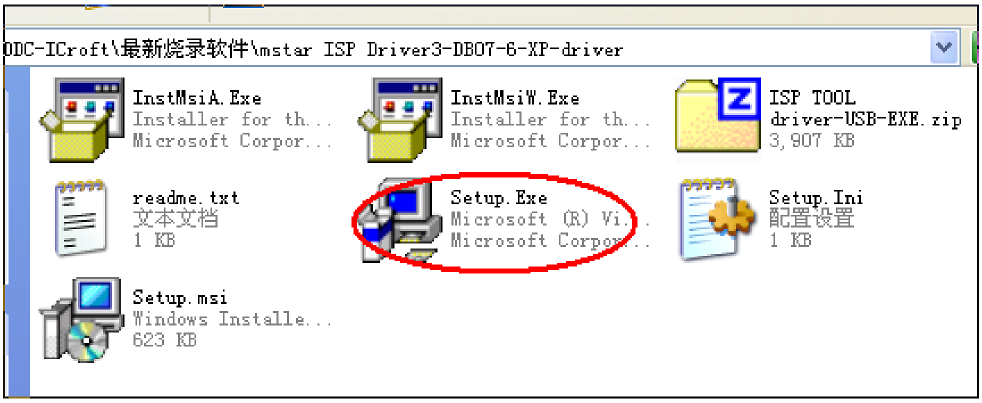
Step1：Connection

1. Connect one end of the USB line cable to the PC, the other to connect the ISP tool（**715GT089-B** ）;
2. Will be the Monitor to connect ISP D-SUB;
3. ISP tool Connection as shown below

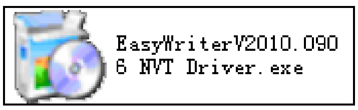


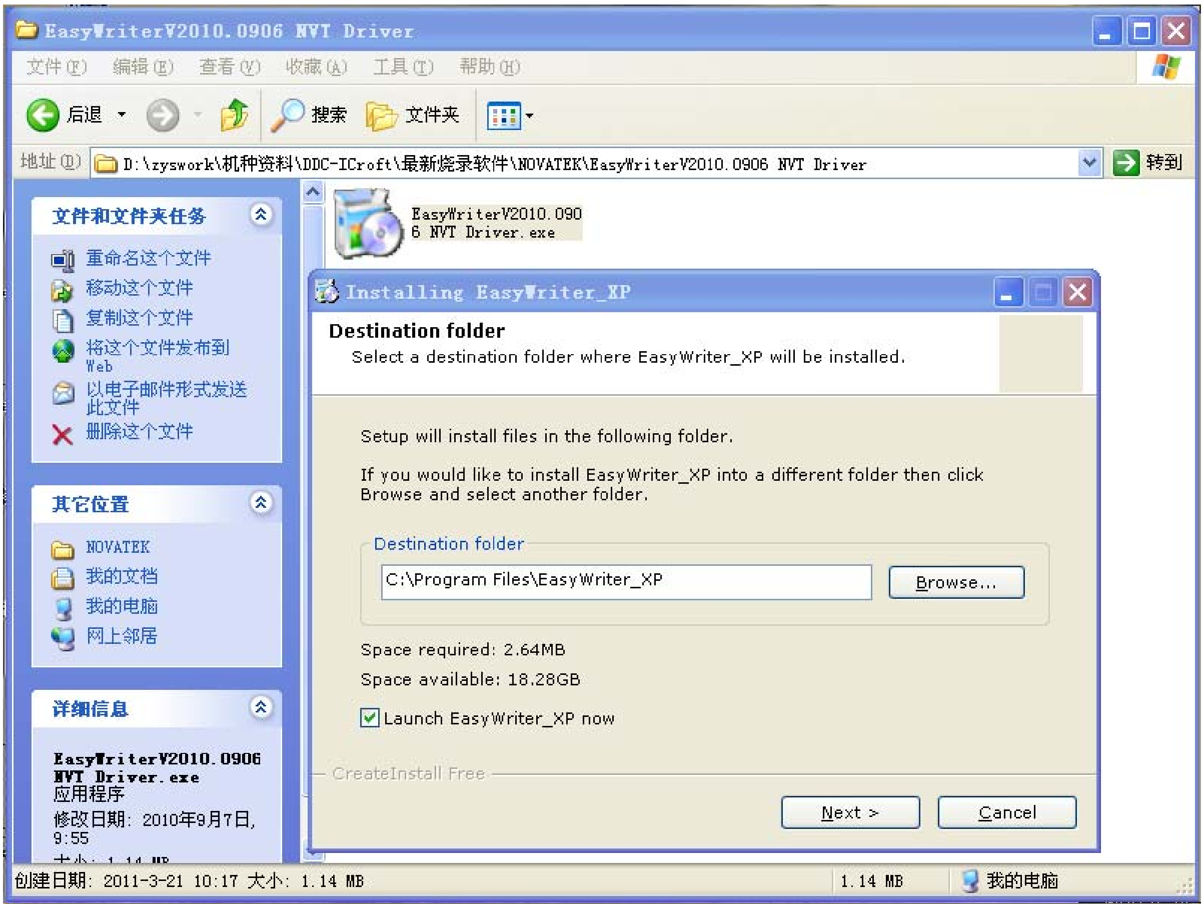
Step2：Installing driver software

1.To install USB tool driver---mstar ISP Driver3-DB07-6-XP-driver



3. To install ISP tool driver



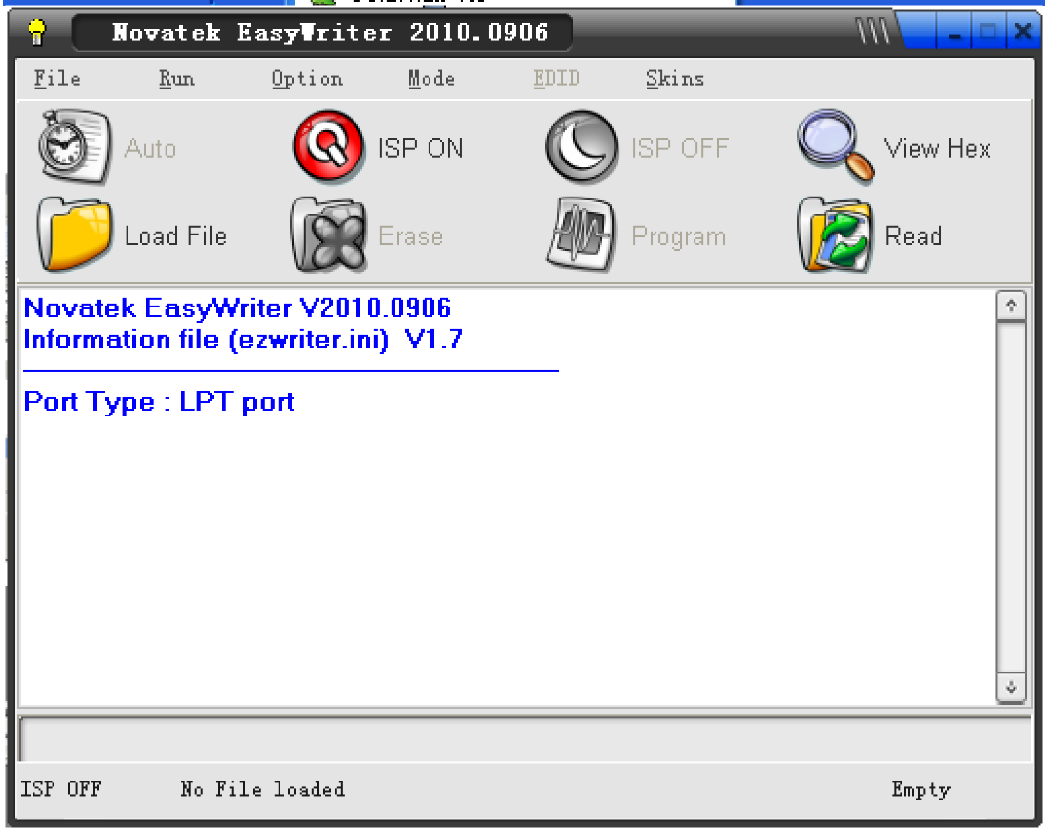

Installing EasyWriter_XP
Destination folder
Select a destination folder where EasyWriter_XP will be installed.
Setup will install files in the following folder.
If you would like to install EasyWriter_XP into a different folder then click Browse and select another folder.
Destination folder
C:\Program Files\EasyWriter_XP
Browse...
Space required: 2.64MB
Space available: 18.28GB
Launch EasyWriter_XP now
CreateInstall Free
Next >
Cancel


Installing EasyWriter_XP
EasyWriter_XP has been successfully installed!
Click Finish to complete the installation.
CreateInstall Free
Finish

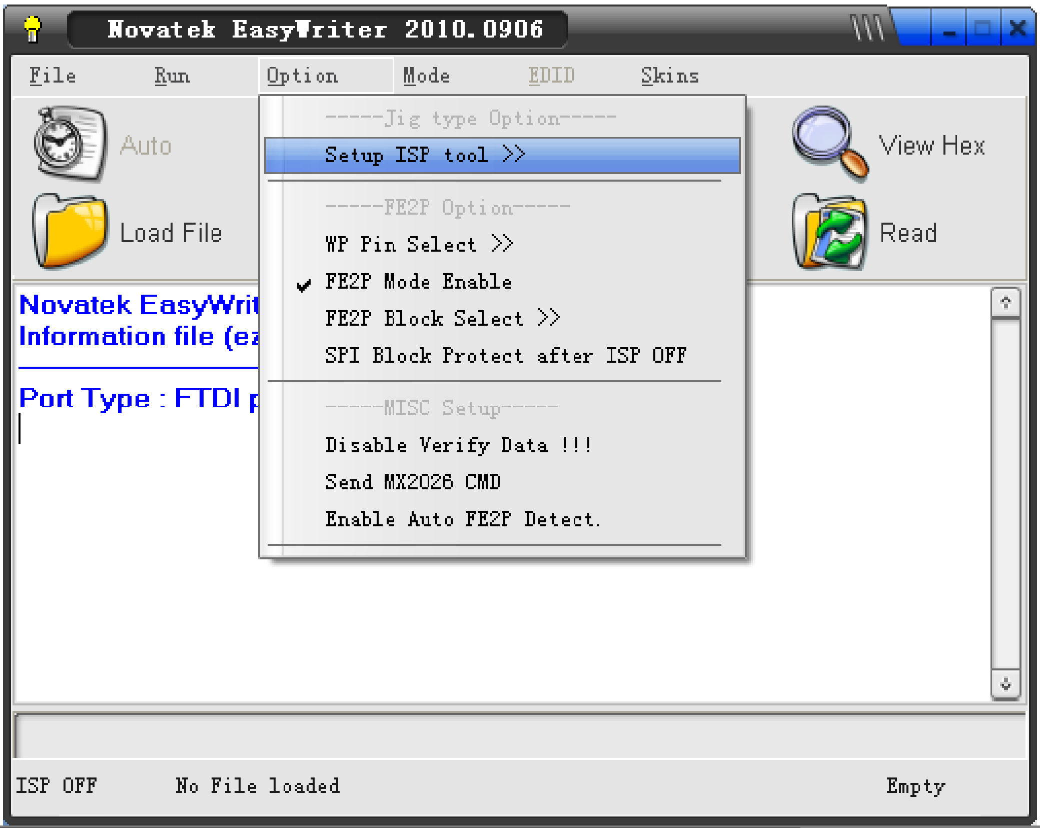
Step3:Run

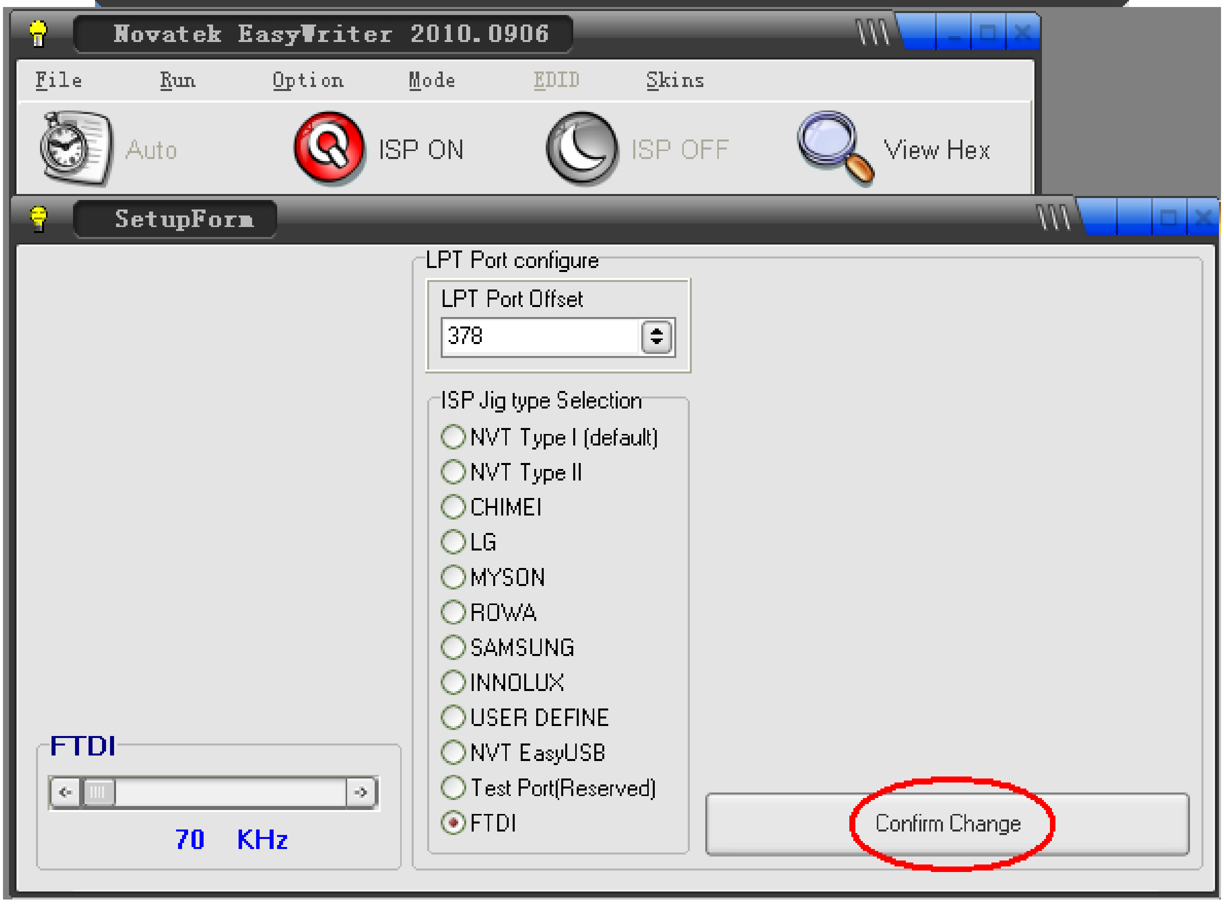
1.To Run TOOL: In the "Start" – "program "in the writer icon, 

, as shown

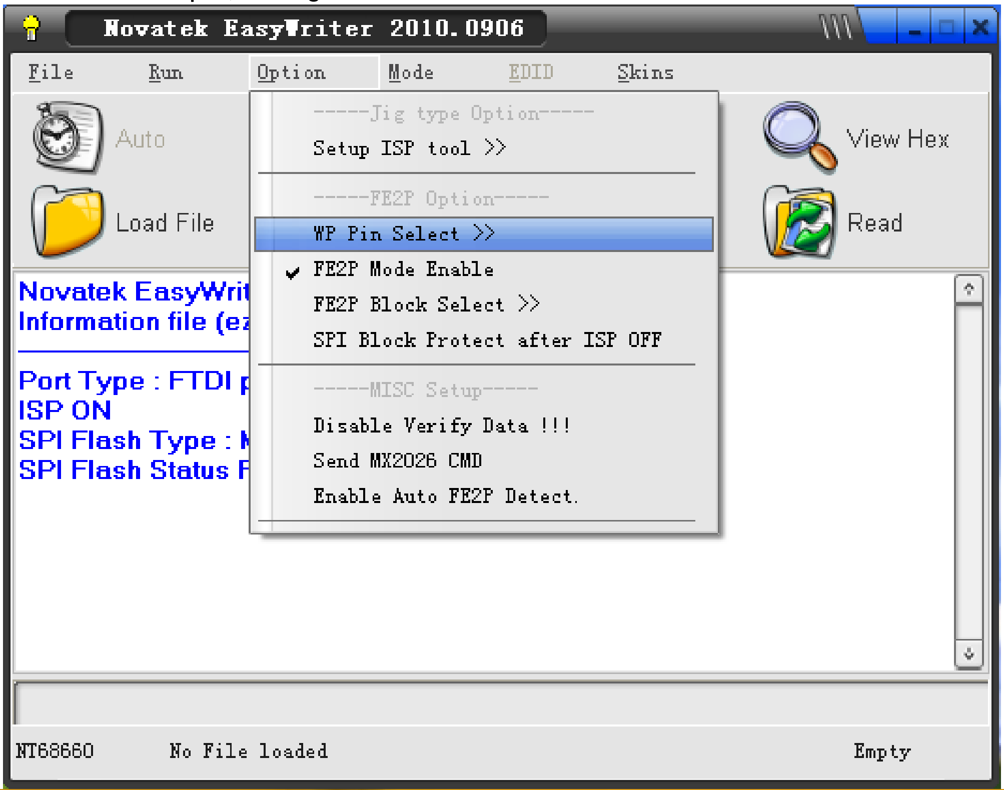


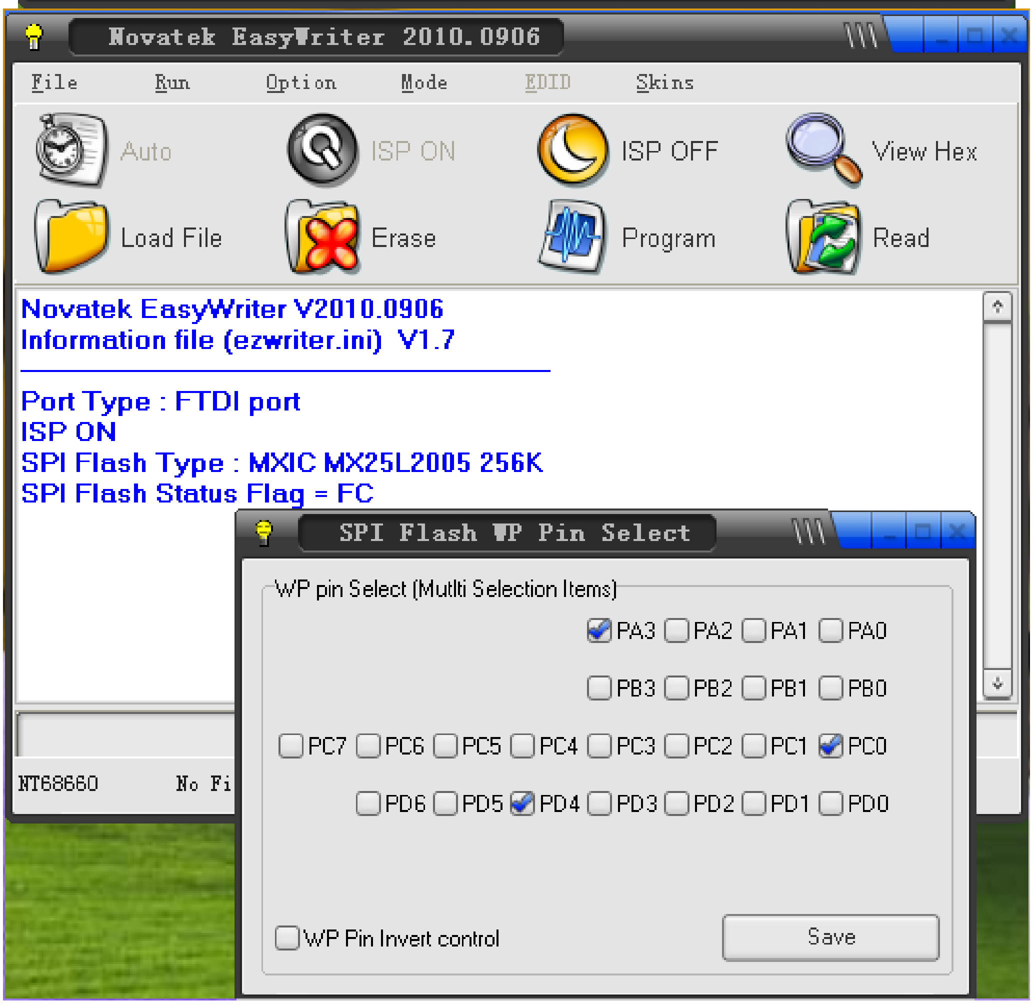
2.Click "Option", "FE2P Mode Enable" TOOL 默认为"√", withhold **HDCP KEY,** select "setup ISP tool",---"FTDI","Confirm Change",The figuer is as follows


Novatek EasyWriter 2010.0906
File Run Option Mode EDID Skins
Auto
Load File
-----Jig type Option-----
Setup ISP tool >>
-----FE2P Option-----
WP Pin Select >>
FE2P Mode Enable
FE2P Block Select >>
SPI Block Protect after ISP OFF
-----MISC Setup-----
Disable Verify Data !!!
Send MX2026 CMD
Enable Auto FE2P Detect.
View Hex
Read
Novatek EasyWrit
Information file (ez
Port Type : FTDI p
ISP OFF No File loaded Empty

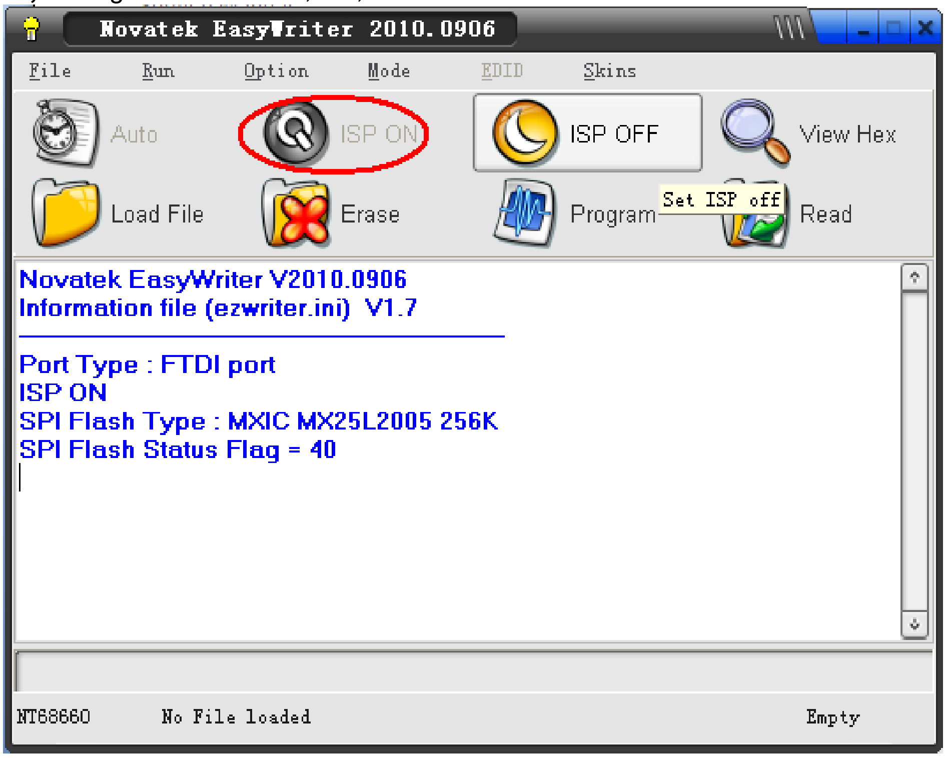

Novatek EasyWriter 2010.0906
File Run Option Mode EDID Skins
Auto ISP ON ISP OFF View Hex
SetupForm
LPT Port configure
LPT Port Offset
378
ISP Jig type Selection
NVT Type I (default)
NVT Type II
CHIMEI
LG
MYSON
ROWA
SAMSUNG
INNOLUX
USER DEFINE
NVT EasyUSB
Test Port(Reserved)
FTDI
FTDI
70 KHz
Confirm Change

3. Click “Option”，select WP pin, The figuer is as follows

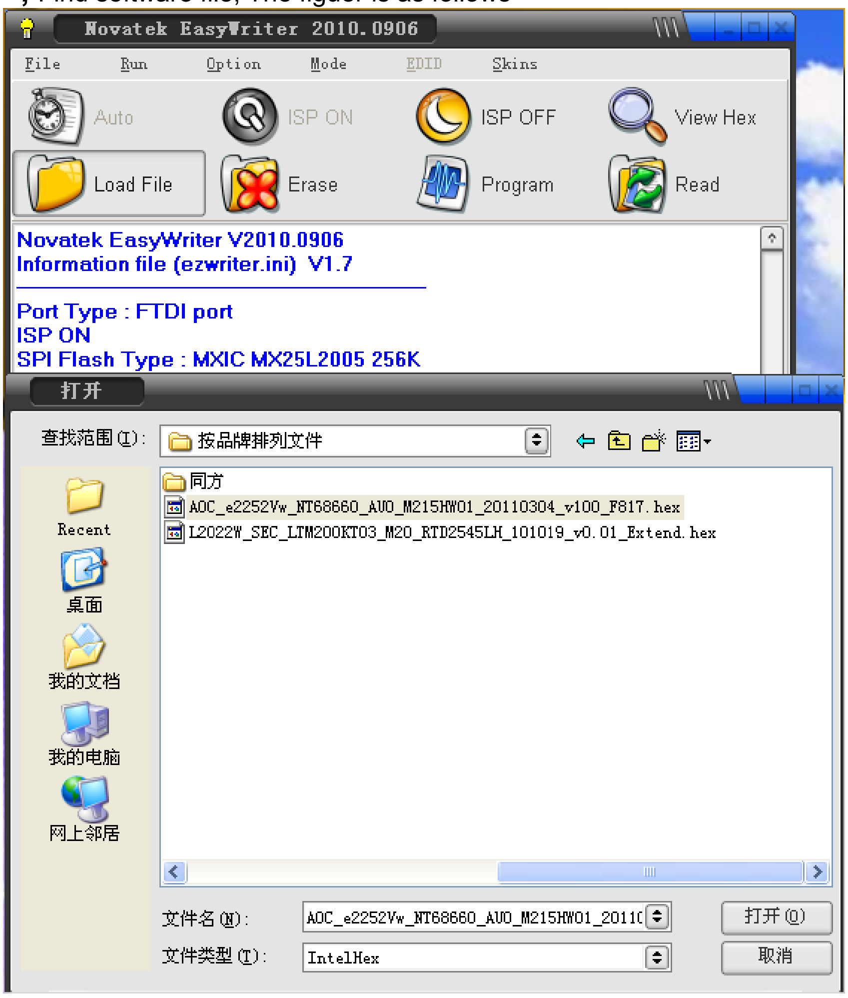




4.click "ISP ON", The figuer is as shown,OK ;



5.Click ""Load File"", Find software file, The figuer is as follows

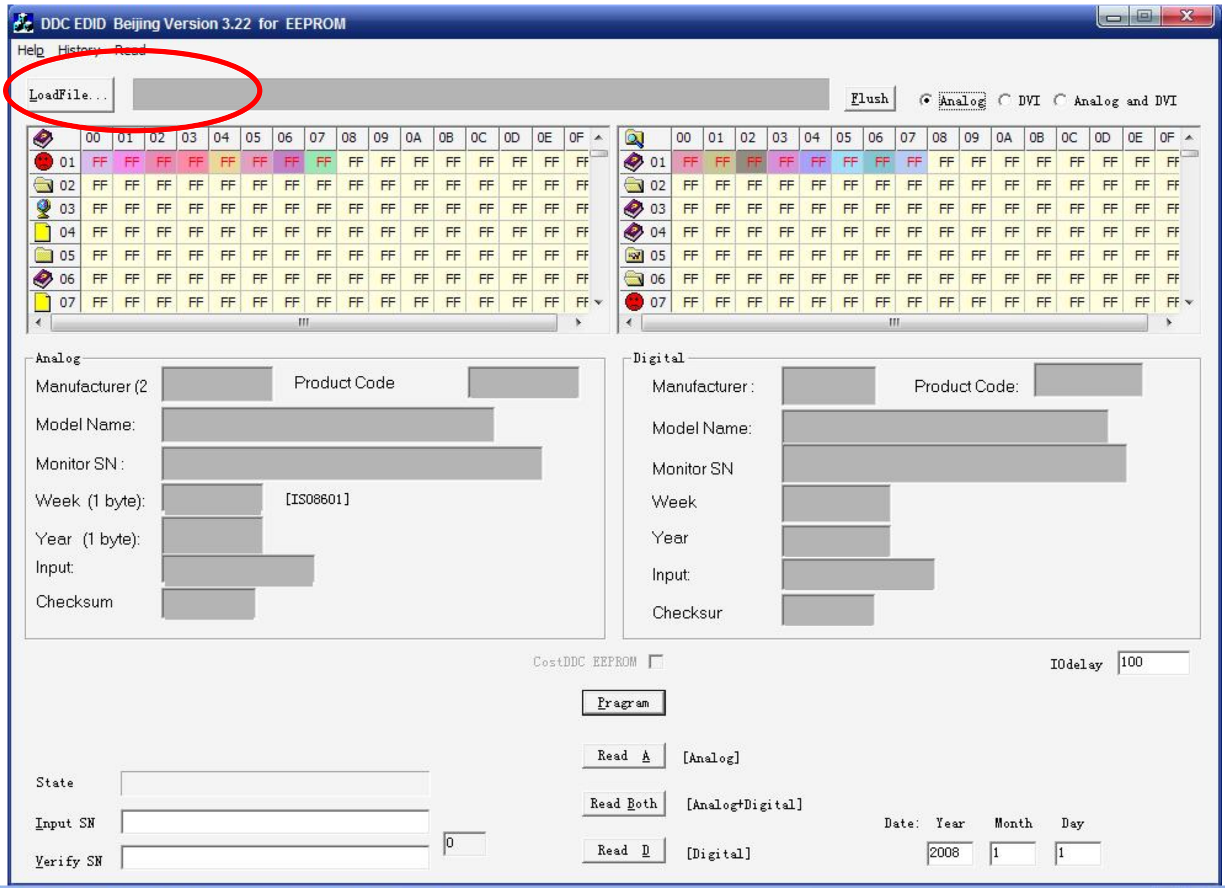


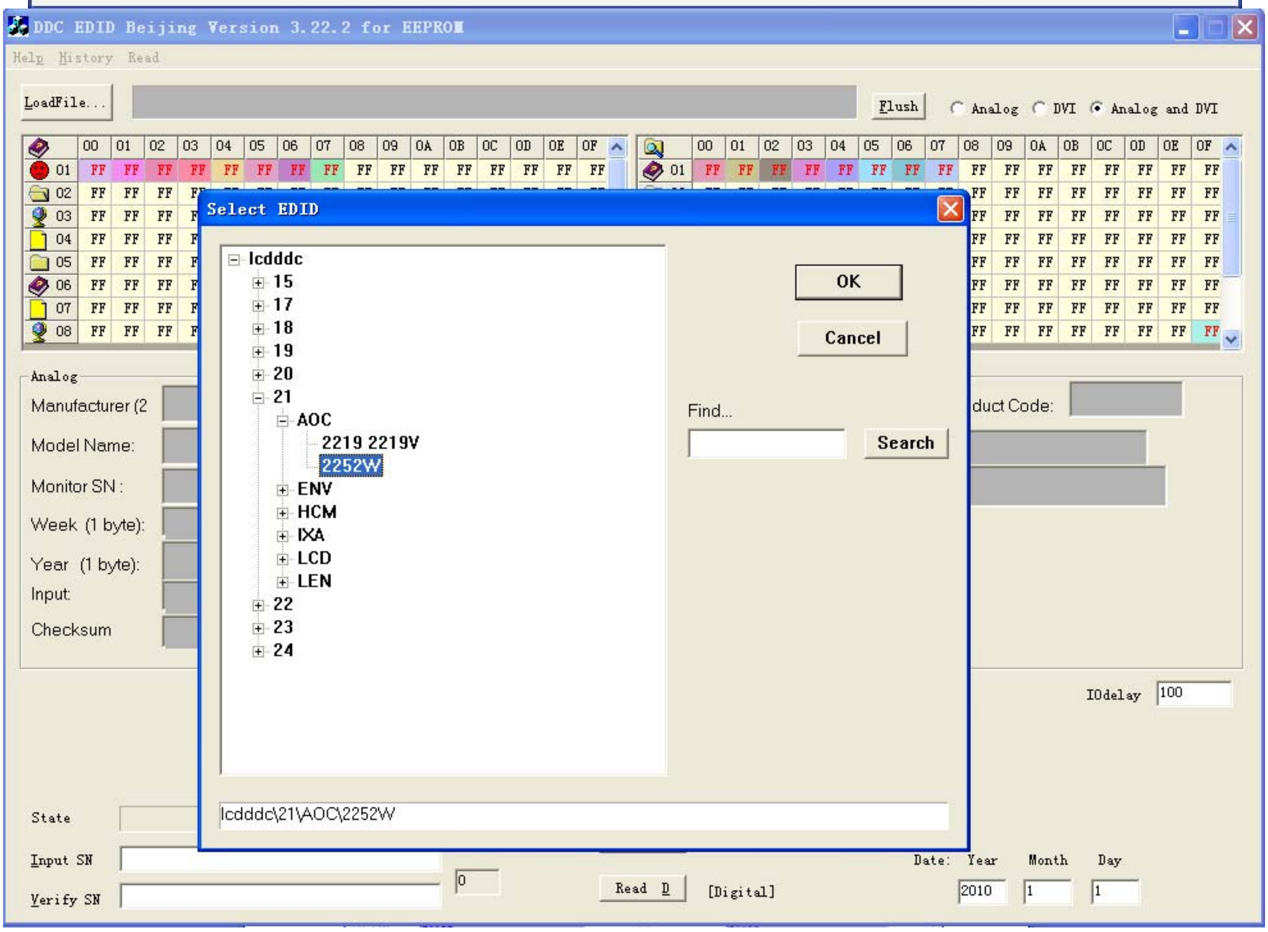
6.Click "Auto", Start Programming, until the successful ;The figuer is as follows

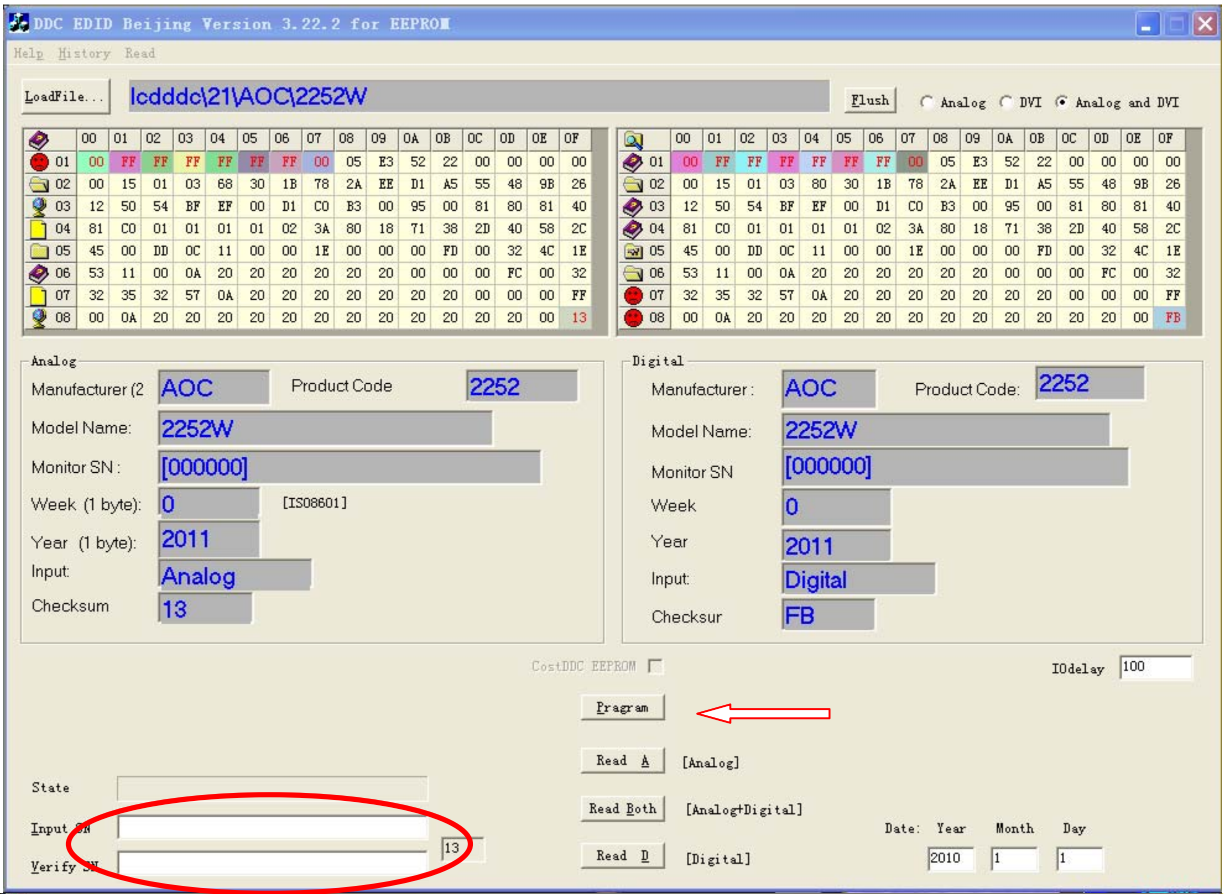
8.5 Re-Writing DDC program step

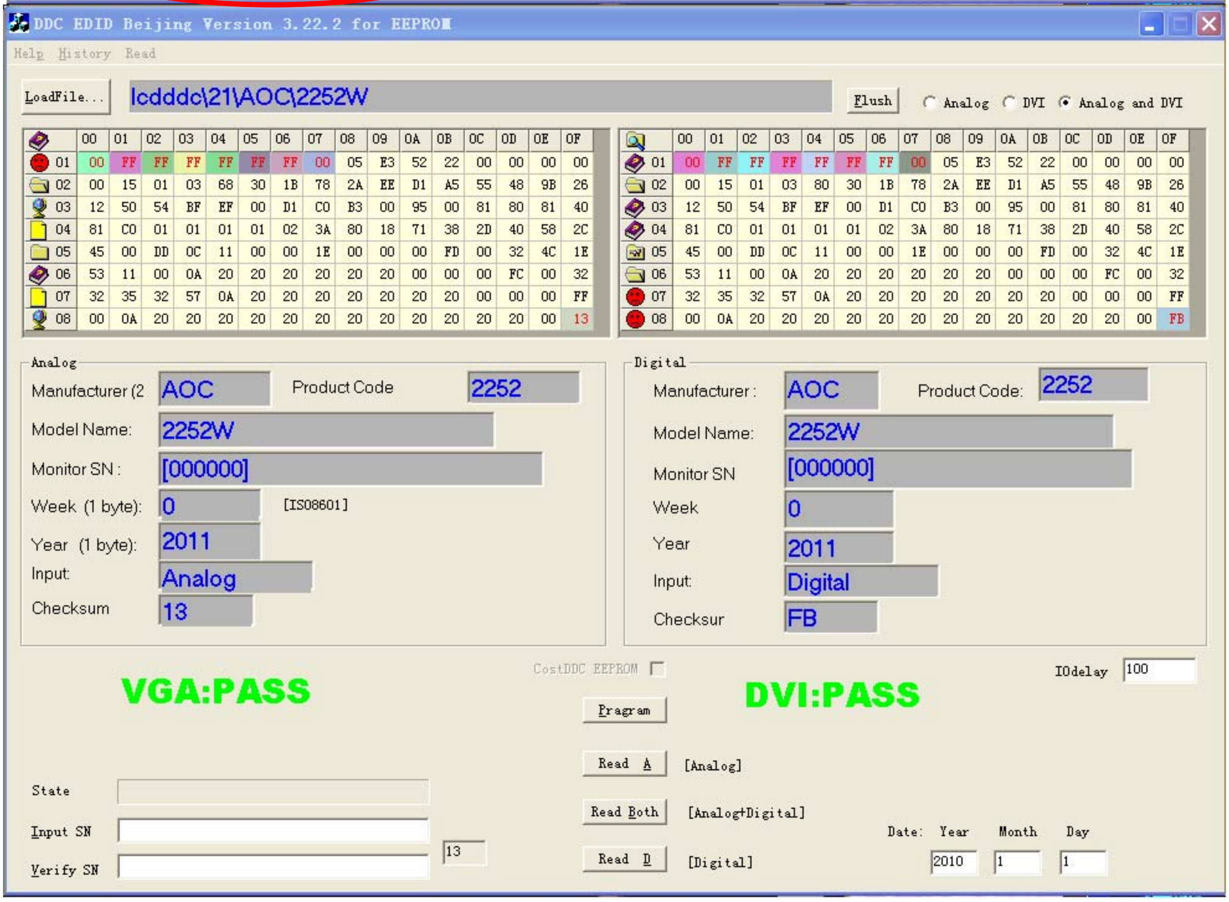
After replacing the Main board and the Panel, Check if white-balance is within the specs ,then re-writing DDC is necessary.

1. Prepared the PC with Windows XP system, DDC recording device (12V)for figure below
2. Connect the DDC recording device and the PC through PC parallel port
3. setup "Port95nt" driver program to PC ,
4. select relevant program and run it, below figure will appear
5, Press "LoadFile", select EDID -model of product, and select input port;
6. key in SN,and other informatiom, key-press "Pragram" button;


DDC EDID Beijing Version 3.22 for EEPROM
Help History Read
LoadFile...
Flush
Analog DVI Analog and DVI
Analog
Manufacturer (2
Product Code
Model Name:
Monitor SN :
Week (1 byte):
[ISO8601]
Year (1 byte):
Input:
Checksum
Digital
Manufacturer :
Product Code:
Model Name:
Monitor SN
Week
Year
Input:
Checksur
CostDDC EEPROM
IOdelay
100
Pragram
Read A
[Analog]
State
Read Both
[Analog+Digital]
Input SN
Date: Year Month Day
Verify SN
Read D
[Digital]
2008
1
1


DDC EDID Beijing Version 3.22.2 for EEPROM
Help History Read
LoadFile...
Flush
Analog DVI Analog and DVI
Select EDID
lcdddc
15
17
18
19
20
21
AOC
2219 2219V
2252W
ENV
HCM
IXA
LCD
LEN
22
23
24
OK
Cancel
Find...
Search
lcdddc\21\AOC\2252W
Analog
Manufacturer (2
Model Name:
Monitor SN :
Week (1 byte):
Year (1 byte):
Input:
Checksum
duct Code:
IOdelay
100
State
Input SN
Verify SN
Date: Year Month Day
Read D
[Digital]
2010
1
1


DDC EDID Beijing Version 3.22.2 for EEPROM
Help History Read
LoadFile... lcdddc\21\AOC\2252W
Flush
Analog DVI Analog and DVI
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
01 00 FF FF FF FF FF FF 00 05 E3 52 22 00 00 00 00
02 00 15 01 03 68 30 1B 78 2A EE D1 A5 55 48 9B 26
03 12 50 54 BF EF 00 D1 C0 B3 00 95 00 81 80 81 40
04 81 C0 01 01 01 01 02 3A 80 18 71 38 2D 40 58 2C
05 45 00 DD 0C 11 00 00 1E 00 00 00 FD 00 32 4C 1E
06 53 11 00 0A 20 20 20 20 20 20 00 00 00 FC 00 32
07 32 35 32 57 0A 20 20 20 20 20 20 20 00 00 00 FF
08 00 0A 20 20 20 20 20 20 20 20 20 20 20 20 00 13
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
01 00 FF FF FF FF FF FF 00 05 E3 52 22 00 00 00 00
02 00 15 01 03 80 30 1B 78 2A EE D1 A5 55 48 9B 26
03 12 50 54 BF EF 00 D1 C0 B3 00 95 00 81 80 81 40
04 81 C0 01 01 01 01 02 3A 80 18 71 38 2D 40 58 2C
05 45 00 DD 0C 11 00 00 1E 00 00 00 FD 00 32 4C 1E
06 53 11 00 0A 20 20 20 20 20 20 00 00 00 FC 00 32
07 32 35 32 57 0A 20 20 20 20 20 20 20 00 00 00 FF
08 00 0A 20 20 20 20 20 20 20 20 20 20 20 20 00 FB
Analog
Manufacturer (2 AOC
Product Code 2252
Model Name: 2252W
Monitor SN : [000000]
Week (1 byte): 0
[ISO8601]
Year (1 byte): 2011
Input Analog
Checksum 13
Digital
Manufacturer : AOC
Product Code: 2252
Model Name: 2252W
Monitor SN [000000]
Week 0
Year 2011
Input Digital
Checksur FB
CostDDC EEPROM
IOdelay 100
Pragram
Read A [Analog]
Read Both [Analog+Digital]
Read D [Digital]
State
Input SN
Verify SN
13
Date: Year Month Day
2010 1 1


DDC EDID Beijing Version 3.22.2 for EEPROM
Help History Read
LoadFile... lcdddc\21\AOC\2252W
Flush
Analog DVI Analog and DVI
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
01 00 FF FF FF FF FF FF 00 05 E3 52 22 00 00 00 00
02 00 15 01 03 68 30 1B 78 2A EE D1 A5 55 48 9B 26
03 12 50 54 BF EF 00 D1 C0 B3 00 95 00 81 80 81 40
04 81 C0 01 01 01 01 02 3A 80 18 71 38 2D 40 58 2C
05 45 00 DD 0C 11 00 00 1E 00 00 00 FD 00 32 4C 1E
06 53 11 00 0A 20 20 20 20 20 20 00 00 00 FC 00 32
07 32 35 32 57 0A 20 20 20 20 20 20 20 00 00 00 FF
08 00 0A 20 20 20 20 20 20 20 20 20 20 20 20 00 13
00 01 02 03 04 05 06 07 08 09 0A 0B 0C 0D 0E 0F
01 00 FF FF FF FF FF FF 00 05 E3 52 22 00 00 00 00
02 00 15 01 03 80 30 1B 78 2A EE D1 A5 55 48 9B 26
03 12 50 54 BF EF 00 D1 C0 B3 00 95 00 81 80 81 40
04 81 C0 01 01 01 01 02 3A 80 18 71 38 2D 40 58 2C
05 45 00 DD 0C 11 00 00 1E 00 00 00 FD 00 32 4C 1E
06 53 11 00 0A 20 20 20 20 20 20 00 00 00 FC 00 32
07 32 35 32 57 0A 20 20 20 20 20 20 20 00 00 00 FF
08 00 0A 20 20 20 20 20 20 20 20 20 20 20 20 00 FB
Analog
Manufacturer (2 AOC
Product Code 2252
Model Name: 2252W
Monitor SN : [000000]
Week (1 byte): 0
[ISO8601]
Year (1 byte): 2011
Input Analog
Checksum 13
Digital
Manufacturer : AOC
Product Code: 2252
Model Name: 2252W
Monitor SN [000000]
Week 0
Year 2011
Input Digital
Checksur FB
VGA:PASS
DVI:PASS
CostDDC EEPROM
IOdelay 100
Pragram
Read A [Analog]
Read Both [Analog+Digital]
Read D [Digital]
State
Input SN
Verify SN
13
Date: Year Month Day
2010 1 1

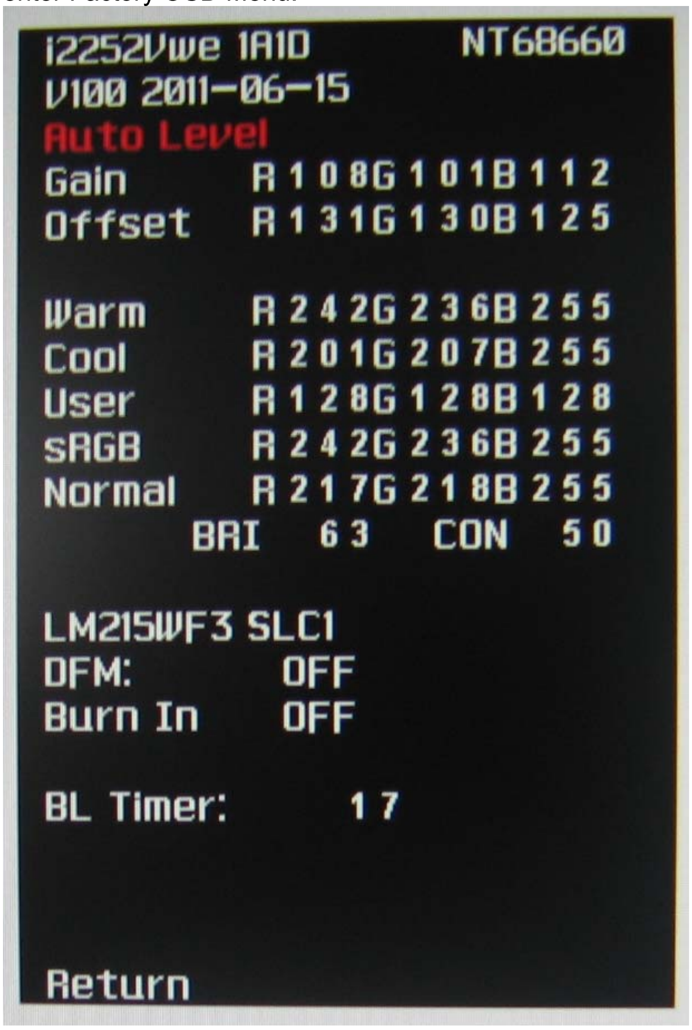
8.6 Factory mode adjustment

After replacing the Main board and the Panel, Check for enter the Factory mode ,then re-writing DDC is necessary.

Step:

In normal display mode, unplug the power cord to shut down。Then Press "MENU" button and hold, At the same time plug the power cord to turned on the Power , Then, click the menu button,the monitor will may enter Factory OSD Menu. Factory OSD Menu will appear in the screen.

By select this "F" button to enter Factory OSD Menu.



In black and white screen picture conditions,"Auto Color",Then turned off the Power of the Monitor ,To turn on the Power, enter OSD, Restore factory settings—selected "Reset". The figuer is as follows


其它
退出
明亮度
图像设置
颜色设置
窗口增亮
OSD 设置
输入选择 自动
自动调整 是
定时关机 00
图像比例 宽屏
DDC/CI 是
重置 否
分辨率 1920(H)x1080(V)
水平频率 67KHz
垂直频率 60Hz


其它
退出
明亮度
图像设置
颜色设置
窗口增亮
OSD 设置
输入选择 自动
自动调整 是
定时关机 00
图像比例 宽屏
DDC/CI 是
分辨率 1280(H)x1024(V)
水平频率 64KHz
垂直频率 60Hz

9.BOM List

Note: The parts information listed below are for reference only, and are subject to change without notice. Please go to http://cs.tpv.com.cn/hello1.asp for the latest information.

9.1 Model：TIBGN22YAYA1HNJ

Location	Part number	Description	Remark
	040G 581689 4A	BARCODE LABEL FOR 1	2
	052G 1211 B	Conductive Tape 85mm *40mm *0.09mm (单导)	2
	052G 1216 A	铝箔胶带	2
	070GHDCP500HDC	HDCP CODE	2
E08903	089G1745CAA AC	DVI CABLE 1.5M	2nd source
E08903	089G1745HAA AC	DVI CABLE	1
E08901	089G414A15N HL	POWER CORD 1500MM China Reg	1
E08901	089G414A15N YH	AC POWER CORD 1500MM CHINA Reg.	2nd source
E09501	095G179J30N707	FFC CABLE 30Pin 210mm P1.0	2nd source
E09502	095G8014 6D724	HARNESS 6P(PH)-6P(2008) 340mm	1
	0M1G1030 6120	SCREW 3x6	6
	0M1G1030 8120	SCREW	1
	0M1G3030 6 47 CR3	SCREW	2
	0Q1G 140 14120	SCREW	6
	0Q1G 930 10 47 CR3	SCREW	2
E750	750GBG215F3C13N000	LCD LM215WF3-SLC1 GZ LGD	1
	756GJBCB AA025	MCU ASS'Y main board CBPCAN2A1J1	
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	
SMTCA-U402	100GANGI000B11	AOC_i2252Vwe_Nt68660_LGD_LM215WF3-SLC1	
U401	056G 562369	SCALER NT68660UFG/B TQFP-100	1
	ADPC11605AD2J	POWER G4750-P02-000-0010-110531	1
GND2	009G6005 1	GROUND TERMINAL	1
GND1	009G6005 1	GROUND TERMINAL	1
	040G 45762412B	CBPC LABEL	2
IC902	056G 139 3A	PC123Y22FZOF SHARP	1
NR901	061G 58100 X	NTCR 10R 20% 5W(10D2-14 MCS)	2nd source
NR901	061G 58100MEW	NTCR 10R 20% 4W	1
C905	063G107K224 UM	X2 CAP 0.22uF K 275VAC	1
C905	063G107K2246S1	X2 CAP 0.22UF K 275VAC	2nd source
C921	065G306K6812BP	Y1 680PF M 250VAC	1
C920	065G306K6812BP	Y1 680PF M 250VAC	1
C920	065G306K6812BW	CAP Y1 680PF 10% 250V Y5P	2nd source
C921	065G306K6812BW	CAP Y1 680PF 10% 250V Y5P	2nd source
C900	065G306M3322BP	CAP Y1 3.3NF 20% 250V Y5U	1
C900	065G306M3323BW	CAP Y1 3.3NF 20% 250V Y5U	2nd source
C903	067G 40Z47015H	EC 47uF M 450V 13*36mm	2nd source
C902	067G 40Z47015H	EC 47uF M 450V 13*36mm	2nd source
C902	067G 40Z47015K	EC 47UF 20% 450V 12.5*35	1
C903	067G 40Z47015K	EC 47UF 20% 450V 12.5*35	1
C903	067G 40Z47015L	EC 47UF 20% 450V 12.5*35	2nd source
C902	067G 40Z47015L	EC 47UF 20% 450V 12.5*35	2nd source
C907	067G215S3316KV	EC 330uF M 35V 10*12mm	1
C908	067G215S3316KV	EC 330uF M 35V 10*12mm	1

C927	067G215S3316KV	EC 330uF M 35V 10*12mm	1
C907	067G215S3316LV	EC 330uF 35V M 10*12.5mm	2nd source
C908	067G215S3316LV	EC 330uF 35V M 10*12.5mm	2nd source
C927	067G215S3316LV	EC 330uF 35V M 10*12.5mm	2nd source
L901	073G 174192 H	LINE FILTER 30MH MIN LCL-12012 HA	1
L901	073G 174192 X	LINE FILTER 30MH MIN 3TRET20-303M-1	2nd source
L903	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG	1
L902	073G 253 91 H	IND CHOKE 3.5uH+-10% DADONG	1
L902	073G 253 91 V	CHOKE COIL 3.5uH+-10%	2nd source
L903	073G 253 91 V	CHOKE COIL 3.5uH+-10%	2nd source
T901	080GL19P 17 N1	X'FMR 500UH 5% 10UH YUVA-1738 PQ38	2nd source
T901	080GL19P 17DN1	X'FMR 500UH 5% 10UH LZ.PJ004.R00 PQ38	1
CN901	087G 501 48 S	AC SOCKET 3PIN + 3 Hole	2nd source
CN901	087G 501 48 DL	AC SOCKET 3PIN + 3 Hole	1
CN901	087G 501 48 HC	AC SOCKET R/A 3P DB-14-04 H=21.6	2nd source
BD901	093G 50460 43	BRIDGE GBL208 2A/800V GBL	2nd source
BD901	093G 50460 51	BRIDGE D2SB80 2A 800V GBL	1
CN902	095G 825 7D702	HARNESS 7P(SCN)-9P(A2004) 80mm	1
	705GQA57948	Q901 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	0.1
Q901	057G 667923	MOSFET SMK0765F 7A 650V TO-220FP	2nd source
Q901	057G 667941	MOSFET P0765ATF 7 650 TO-220F	1
	0M1G 930 6120	SCREW 3x6	1
HS1	J90G0195 3	HEAT SINK	1
	705GQA93507	D903 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	0.1
D903	093G 60278	SCHOTTKY SP1060 10A 60V ITO-220AB	1
D903	093G 60507	SCHOTTKY SRF1060 C0 10A 60V ITO-220AB	2nd source
D903	093G 60526	SCHOTTKY MBRF1060CT ITO-220AB	2nd source
	0M1G 930 6120	SCREW 3x6	1
HS3	J90G0195 3	HEAT SINK	1
	705GQA93943	D901 ASS'Y	1
	051G 200 1	OIL FOR DISAPPEAR	0.1
D901	093G 52 66	DIODE FMX-12SL 10A/200V TO-220	2nd source
D901	093G 60943	DIODE SFF1004G ITO-220AB	2nd source
D901	093G 60978	RECTIFIER UF1002FCT 10A 200V ITO-220AB	1
	0M1G 930 6120	SCREW 3x6	1
HS2	J90G0195 3	HEAT SINK	1
	AD11605AD2SMTJ	POWER BOARD FOR SMT	1
IC901	056G 379190	AC/DC CONVERTER LD7750RGR SOP-7	1
R915	061G08051000FT	RST CHIPR 100 OHM +-1% 1/8W	2nd source
R915	061G08051000FY	RST CHIPR 100 OHM +-1% 1/8W YAGEO	1
R923	061G08051002FT	RST CHIP 10K 1/8W 1%	2nd source
R923	061G08051002FY	RST CHIP 10K 1/8W 1%	1
R934	061G0805102 JF	RST CHIPR 1K OHM +-5% 1/8W FENGHUA	1
R934	061G0805102 JF	RST CHIPR 1K OHM +-5% 1/8W FENGHUA	2nd source
R931	061G0805104 JF	RST CHIPR 100KOHM +-5% 1/8W FENGHUA	2nd source
R931	061G0805104 JT	RST CHIPR 100KOHM +- 5% 1/8W TZAI YUAN	1
R921	061G08051501FF	RST CHIPR 1.5KOHM +-1% 1/8W FENGHUA	2nd source
R921	061G08051501FT	RST CHIPR 1K5 +-1% 1/8W TZAI YAUN	1

R920	061G0805221 JI	RST CHIPR 220 OHM +-5% 1/8W 0805	1
R920	061G0805221 JT	RST CHIP 220R 1/8W 5% TZAI YUAN	2nd source
R926	061G08054701FF	RST CHIPR 4.7KOHM +-1% 1/8W FENGHUA	1
R926	061G08054701FT	RST CHIP 4K7 1/8W 1%	2nd source
R933	061G0805511 JF	RST CHIPR 510OHM +-5% 1/8W FENGHUA	1
R933	061G0805511 JT	RST CHIPR 510OHM +-5% 1/8W TZAI YUAN	2nd source
R927	061G08059101FF	RST CHIPR 9.1KOHM +-1% 1/8W FENGHUA	2nd source
R927	061G08059101FT	RST CHIP 9K1 1/8W 1%	1
R924	061G1206100 JF	RST CHIPR 10 OHM +-5% 1/4W FENGHUA	2nd source
R924	061G1206100 JT	RST CHIPR 10 OHM +-5% 1/4W TZAI YUAN	1
R912	061G1206103 JF	RST CHIPR 10KOHM +-5% 1/4W FENGHUA	2nd source
R912	061G1206103 JT	RST CHIPR 10KOHM +-5% 1/4W TZAI YUAN	1
R918	061G1206155 JF	RST CHIPR 1.5MOHM +-5% 1/4W FENGHUA	2nd source
R917	061G1206155 JF	RST CHIPR 1.5MOHM +-5% 1/4W FENGHUA	2nd source
R916	061G1206155 JF	RST CHIPR 1.5MOHM +-5% 1/4W FENGHUA	2nd source
R918	061G1206155 JT	RST CHIPR 1.5MOHM +-5% 1/4W TZAI YUAN	1
R917	061G1206155 JT	RST CHIPR 1.5MOHM +-5% 1/4W TZAI YUAN	1
R916	061G1206155 JT	RST CHIPR 1.5MOHM +-5% 1/4W TZAI YUAN	1
R911	061G1206220 JF	RST CHIPR 22 OHM +-5% 1/4W FENGHUA	1
R911	061G1206220 JT	RST CHIPR 22 OHM +-5% 1/4W TZAI YUAN	2nd source
R914	061G1206470 JF	RST CHIPR 47 OHM +-5% 1/4W FENGHUA	2nd source
R913	061G1206470 JF	RST CHIPR 47 OHM +-5% 1/4W FENGHUA	2nd source
R902	061G1206470 JI	RST 47 OHM 5% 1/4W TA-I	2nd source
R901	061G1206470 JI	RST 47 OHM 5% 1/4W TA-I	2nd source
R914	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	1
R913	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	1
R902	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	1
R901	061G1206470 JT	RST CHIPR 47 OHM +-5% 1/4W TZAI YUAN	1
R910	061G12064707FI	RST 1206 0.47R 1% 1/4W	2nd source
R910	061G12064707FT	RST 1206 0.47R 1% 1/4W	1
R905	061G1206682 JF	RST CHIPR 6.8KOHM +-5% 1/4W FENGHUA	2nd source
R908	061G1206682 JF	RST CHIPR 6.8KOHM +-5% 1/4W FENGHUA	2nd source
R909	061G1206682 JF	RST CHIPR 6.8KOHM +-5% 1/4W FENGHUA	2nd source
R905	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	1
R908	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	1
R909	061G1206682 JT	RST CHIPR 6.8 KOHM +-5% 1/4W TZAI YUAN	1
C934	065G080510232K 3	CAP CHIP 0805 1N 50V X7R +/-10%	2nd source
C922	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	2nd source
C934	065G080510232K F	CAP 0805 1000PF 10% 50V X7R	2nd source
C922	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C934	065G080510232K Y	CAP CHIP 0805 1N 50V X7R +/-10%	1
C926	065G080510432K 3	CAP CHIP 0805 100N 50V X7R +/-10%	2nd source
C929	065G080510432K 3	CAP CHIP 0805 100N 50V X7R +/-10%	2nd source
C926	065G080510432K A	CAP CHIP 0805 0.1UF K 50V X7R	1
C929	065G080510432K A	CAP CHIP 0805 0.1UF K 50V X7R	1
C912	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	2nd source
C917	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	2nd source
C923	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	1
C926	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	2nd source
C929	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	2nd source

C929	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	2nd source
C926	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	2nd source
C923	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	2nd source
C917	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C912	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C919	065G080533332K F	CAP 0805 33NF K 50V X7R	1
C919	065G080533332K Y	CAP CHIP 0805 33N 50V X7R +/-10%	2nd source
C901	065G120622272K Y	CER 1206 2N2 500V X7R 10%	2nd source
C913	065G120622272K Y	CER 1206 2N2 500V X7R 10%	2nd source
C924	065G120622272K Y	CER 1206 2N2 500V X7R 10%	2nd source
C925	065G120622272K Y	CER 1206 2N2 500V X7R 10%	2nd source
C901	065G1206222B2K M	CAP 1206 2.2NF 10% 630V X7R	1
C913	065G1206222B2K M	CAP 1206 2.2NF 10% 630V X7R	1
C924	065G1206222B2K M	CAP 1206 2.2NF 10% 630V X7R	1
C925	065G1206222B2K M	CAP 1206 2.2NF 10% 630V X7R	1
	AD11605AD2AIJ	POWER BOARD FOR AI	1
CN901	006G 31500	EYELET	3
	040G 45762412B	CBPC LABEL	1
IC903	056G 158 10 T	LDO IC AZ431AZ-AE1 TO-92 150MA 40V TO-92	1
IC903	056G 563354	Shunt. Reg. TL431-A-TA TO-92	2nd source
Q903	057G 530503 T	2SD1207T	1
Q903	057G 761 16	TRA KTD1028 KEC	2nd source
R903	061G152M10452T HX	RST MOF 100K 5% 2WS	2nd source
R903	061G152M10452T SY	RST MOFR 100KOHM +-5% 2WS FUTABA	1
R919	061G152M39852T	RST MOFR 0.39 OHM +-5% 2WS	1
R935	061G152M68152T HX	RST MOF 680R 5% 2W	2nd source
R932	061G152M68152T HX	RST MOF 680R 5% 2W	2nd source
R935	061G152M68152T SY	RST MOF 680R 5% 2WS	1
R932	061G152M68152T SY	RST MOF 680R 5% 2WS	1
C931	065G 1K471 2T	470pF 1KV Z5P +-10%	1
C906	065G 2K152 2T6213	CAP CER 1.5NF 10% 2KV Y5P	2nd source
C906	065G 2K152 2T6921	CAP CER 1500pF K 2KV Y5P	1
C910	067G 2046812KT	CS CAP 680uF 10V 8*11 mm	1
C910	067G 2046812LT	CAP CS 680UF 20% 10V 8*11.5	2nd source
C916	067G215C4706KT	EC 47UF 20% 35V 8*9	1
C916	067G215C4706LT	EC 47UF 20% 35V 8*9	2nd source
C911	067G215C4713KT	EC 470 20% 16 8*9	1
C911	067G215C4713LT	EC 470UF 20% 16V 8*9	2nd source
FB901	071G 55 9 T	BEAD 3.5*0.8*6.0mm 110R HF	1
FB901	071G 55 9 X	CORE 3.5*0.8*6.0 110R 25% 3BDR3560-903A	2nd source
F901	084G 56 4 B	FUSE 4A 250V	1
F902	084G 56 4 B	FUSE 4A 250V	1
F901	084G 56 4W	FUSE 4A 250V	2nd source
F902	084G 56 4W	FUSE 4A 250V	2nd source
ZD902	093G 3916352T	ZD TZX22B	2nd source
ZD902	093G 3916852T	ZENER MTZJ T-72 22B 22V 0.5W DO-34	2nd source
ZD902	093G 39A6852T	ZENER DIODES MTZJ22B DO-34	1
D905	093G 60964	RECTIFIER PS1010R T/B 1A 1000V DO-41	1
D902	093G 60964	RECTIFIER PS1010R T/B 1A 1000V DO-41	1
D904	093G 6452452T	SWITCHING 1N4148-B4006 0.2A 100V DO-35	1

J909	095G 90 23	JUMPER WIRE	1
J908	095G 90 23	JUMPER WIRE	1
J907	095G 90 23	JUMPER WIRE	1
J917	095G 90 23	JUMPER WIRE	1
J914	095G 90 23	JUMPER WIRE	1
J905	095G 90 23	JUMPER WIRE	1
J906	095G 90 23	JUMPER WIRE	1
J910	095G 90 23	JUMPER WIRE	1
J911	095G 90 23	JUMPER WIRE	1
J912	095G 90 23	JUMPER WIRE	1
J913	095G 90 23	JUMPER WIRE	1
J904	095G 90 23	JUMPER WIRE	1
J903	095G 90 23	JUMPER WIRE	1
J902	095G 90 23	JUMPER WIRE	1
J901	095G 90 23	JUMPER WIRE	1
	715G4750P02000001C	PWR PCB FR1 CTI>600 SS 114*226*1.6mm	1
	LNPC11605AD2J	CONVERTER G4013-P01-002-004C-6-101228	1
C809	067G315M1016HV	EC 100UF 20% 35V 8*7	2nd source
C809	067G315M1016KV	EC 100UF 20% 35V 8*7	1
C807	067G415Z479 9K	EC 4.7UF 20% 100V 8*12	1
CN802	311GB254B04AAL	PIN HEADER 2.54MM 4P 2P7.2MM/2P4.0MM	1
CN802	311GB254B04AAW	PIN HEADER 2.54MM 4P 2P7.2MM/2P4.0MM	2nd source
CN801	311GB254B07AAL	PIN HEADER 2.54MM 7P 5P7.2MM/2P4.0MM	1
CN801	311GB254B07AAW	PIN HEADER 2.54MM 7P 5P7.2MM/2P4.0MM	2nd source
	LN11605AD2SMTJ	CONVERTER BOARD FOR SMT	1
U801	056G 700 5	IC LED driver MP3389EF TSSOP28	1
Q806	057G 763 92	FET P8008HV 4A/80V SOP-8	2nd source
Q806	057G 763947	MOSFET APM8005KCTRG SOP-8	1
R819	061G06031001FF	RST CHIPR 1 KOHM +-1% 1/10W FENGHUA	1
R819	061G06031001FY	RST CHIPR 1KOHM +-1% 1/10W YAGEO	2nd source
R806	061G0603102 JF	RST CHIPR 1K OHM +-5% 1/10W FENGHUA	1
R808	061G0603102 JF	RST CHIPR 1K OHM +-5% 1/10W FENGHUA	1
R804	061G0603104 JF	RST CHIPR 100KOHM 5% 1/10W FENGHUA	1
R802	061G06031803FF	RST CHIPR 180K +-1% 1/10W FENGHUA	1
R802	061G06031803FT	RST CHIP 0603 180K 1/10W 1%	2nd source
R810	061G0603203 JF	RST CHIPR 20K OHM +-5% 1/10W FENGHUA	1
R807	061G06033003FF	RST CHIPR 300K 1% 1/10W FENGHUA	1
R807	061G06033003FY	RST CHIPR 300KOHM 1/10W YAGEO	2nd source
R803	061G06033302FI	TEST ONLY RST 0603 33K 1% 1/10W TA-I	2nd source
R803	061G06033302FT	RST CHIP 33K 1/10W 1%	1
R839	061G06033308FF	RST CHIP 3R3 1/10W 1% FENGHUA	2nd source
R839	061G06033308FT	RST CHIP 3R3 1/10W 1%	1
R809	061G06035601FF	RST 0603 5.6K 1% 1/10W	1
R809	061G06035601FY	RST CHIP R 5K6 1/10W +/-1%	2nd source
R848	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R847	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R846	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R845	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R844	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R843	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1

R842	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R841	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R815	061G08051001FT	RST CHIP 1K 1/8W 1%	1
R811	061G08051001FT	RST CHIP 1K 1/8W 1%	1
R815	061G08051001FY	RST CHIP 1K 1/8W 1%	2nd source
R811	061G08051001FY	RST CHIP 1K 1/8W 1%	2nd source
R837	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R829	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R834	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R832	061G0805109 JT	RST CHIP 1R 1/8W 5% TZAI YUAN	1
R837	061G0805109 JY	RST CHIP 1R 1/8W 5% YAGEO	2nd source
R829	061G0805109 JY	RST CHIP 1R 1/8W 5% YAGEO	2nd source
R834	061G0805109 JY	RST CHIP 1R 1/8W 5% YAGEO	2nd source
R832	061G0805109 JY	RST CHIP 1R 1/8W 5% YAGEO	2nd source
R805	061G0805304 JF	RST CHIPR 300KOHM +-5% 1/8W FENGHUA	1
R805	061G0805304 JY	RST CHIPR 300K +-5% 1/8W YAGEO	2nd source
R818	061G1206000 JF	RST CHIPR MAX0R05 1/4W FENGHUA	1
F801	061G12060004JY	RST CHIPR MAX0R05 4A 1/4W YAGEO	1
R801	061G12061009FF	RST CHIP 10 OHM 1% 1/4W FENGHUA	1
R812	061G12061507FF	RST 1206 0.15R 1% 1/4W	1
R816	061G12061507FF	RST 1206 0.15R 1% 1/4W	1
R817	061G12061507FF	RST 1206 0.15R 1% 1/4W	1
R817	061G12061507FY	RST CHIPR 0.15 OHM +-1% 1/4W YAGEO	2nd source
R816	061G12061507FY	RST CHIPR 0.15 OHM +-1% 1/4W YAGEO	2nd source
R812	061G12061507FY	RST CHIPR 0.15 OHM +-1% 1/4W YAGEO	2nd source
C806	065G060310131J M	CAP CHIP 0603 100pF J 50V NPO	2nd source
C806	065G060310131J Y	CAP CHIP 0603 100P 50V NP0 +/-5%	1
C802	065G060368332K Y	CHIP 0603 68NF 50V X7R	1
C810	065G080510432K F	CAP CHIP 0805 0.1UF K 50V X7R	2nd source
C810	065G080510432K Y	CAP CHIP 0805 100N 50V X7R +/-10%	1
C805	065G080522131J M	CAP 0805 220PF 5% 50V NP0	2nd source
C813	065G080522131J M	CAP 0805 220PF 5% 50V NP0	2nd source
C805	065G080522131J Y	CAP CHIP 0805 220P 50V NP0 +/-5%	1
C813	065G080522131J Y	CAP CHIP 0805 220P 50V NP0 +/-5%	1
C801	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	1
C803	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	1
C804	065G080547432K A	CAP CHIP 0805 0.47UF K 50V X7R	1
C804	065G080547432K M	CAP 0805 470NF 10% 50V X7R	2nd source
C803	065G080547432K M	CAP 0805 470NF 10% 50V X7R	2nd source
C801	065G080547432K M	CAP 0805 470NF 10% 50V X7R	2nd source
C801	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	2nd source
C803	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	2nd source
C804	065G080547432K T	CAP CHIP 0805 0.47UF K 50V X7R	2nd source
L801	073G253S 59 X	SMD CHOKE 22uH 4A 3SMSL12575-220M HF	2nd source
L801	073G253S 59 DN	SMD CHOKE 22UH 20% 0.032R LK.29220.A2P 4	1
D801	093G 60S509 T	SCHOTTKY BR310 T/R 3A 100V SMB	2nd source
D801	093G 60S907 T	SCHOTTKY B3100B 3A 100V SMB	1
CN805	311GF100C06ADH	FFC CONN 1.0mm 6P	1
	715G4013P02002004C	PWR PCB FR4 DS 80X45+1.6(mm)	1
	Q51G 6 4509	GLUE_RTV	1

	CBPCAN2A1J1	CONVERSION G4502-M01-000-0040-1-110212	1
CN402	033G3802 6B Y	CONN 6PIN 2.0	2nd source
CN402	033G3802 6B Y L	WAFER	1
CN701	033G3802 9B Y	CONNECTOR 9P 2.0	2nd source
CN701	033G3802 9B Y L	CONN 2.0 9P	1
CN408	033G801930F CH L	FFC CONN 1.0mm 30P R/A 34mm 6mm	1
CN408	033G801930F CH JS	FFC CONN 1.0mm 30P R/A 34mm 6.3mm	2nd source
	040G 45762412B	CBPC LABEL	2
R707	061G152M479 64 SY	RST MOFR 4.7 OHM +-5% 2WS FUTABA	1
CN101	088G 35315FVCL	D-SUB CONN V/T 15P BLUE H=10.4	1
CN102	088G 35424F VC	DVI CONN 24P V/T WITH SCREW	2nd source
CN102	088G 35424FVXH	DVI CONN V/T 24P WHITE	1
X401	093G 22 51 YC	YC-49S-12M30PF30PPM25ohm 12M 30ppm 30PF	1
X401	093G 2251B J	CRYSTAL 12MHZ NXS12.000AC30F-KAB10	2nd source
	AIGAN2A1J1	MAIN BOARD FOR AI	1
C705	067G 3051013PB	EC 105C 100uF M 16V 5*11mm	1
C702	067G 3051013PB	EC 105C 100uF M 16V 5*11mm	1
C433	067G 3051013PB	EC 105C 100uF M 16V 5*11mm	1
C716	067G 3051013PB	EC 105C 100uF M 16V 5*11mm	1
C710	067G 3051013PB	EC 105C 100uF M 16V 5*11mm	1
	SMTCAN2A1J1	MAIN BOARD FOR SMT	1
	040G 45762420A	LABEL 25x6mm	1
U703	056G 133 33AAC	LDO AZ1117H-1.8TRE1	2nd source
U703	056G 563243	LDO LSP1117E18AG 1A 1.8V SOT223	1
U701	056G 563349	LDO LSP1117E33AG 1A 3.3V SOT-223	1
U701	056G 563514	IC AZ1117H-3.3TRG1 1A/3.3V SOT223	2nd source
U107	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U106	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U104	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U103	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U102	056G 662 48	ESD PROTECT AZC399-04S.R7G SOT23-6L	1
U101	056G1133531	EEPROM FM24C02A-SO-T-G 2K SOP-8	1
U105	056G1133531	EEPROM FM24C02A-SO-T-G 2K SOP-8	1
U402	056G2233 11	IC Pm25LD020C-SCE SIOC-8(150mil) 2M	0
U402	056G2233501	FLASH MX25L2026DM1I-12G 2Mb SOP-8	1
Q401	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	2nd source
Q402	057G 417517	Tra LMBT3906LT1G -200mA/-40V SOT-23 LRC	2nd source
Q701	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	2nd source
Q706	057G 417518	TRA LMBT3904LT1G 200mA/40V SOT-23 LRC	2nd source
Q706	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q701	057G 417525	SMALLTRAN MMBT3904 200mA 40V SOT-23	1
Q402	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1
Q401	057G 417526	SMALLTRAN MMBT3906 -0.2A -40V SOT-23	1
Q705	057G 763940	MOSFET AO3401A SOT-23	1
R409	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R407	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R406	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R118	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R117	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1

R453	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R410	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R110	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R109	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R104	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R103	061G0402000 JT	RST CHIPR MAX0R05 1/16W TZAI YUAN	1
R136	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R137	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R138	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R139	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R140	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R141	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R135	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R134	061G0402100 JT	RST CHIP 10R 1/16W 5% TZAI YUAN	1
R124	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R127	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R128	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R129	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R431	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R434	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R439	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R703	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R101	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R102	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R105	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R106	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R108	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R111	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R113	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R119	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R121	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R123	061G0402101 JT	RST CHIP 100R 1/16W 5% TZAI YUAN	1
R130	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R424	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R487	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R488	061G0402102 JT	RST CHIP 1K 1/16W 5% TZAI YUAN	1
R799	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R714	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R704	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R425	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R427	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R429	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R444	061G0402103 JT	RST CHIP 10K 1/16W 5% TZAI YUAN	1
R715	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R422	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R415	061G0402104 JT	RST CHIP 100K 1/16W 5% TZAI YUAN	1
R432	061G0402105 JT	RST CHIP R 1Mohm 1/16W +/-5% TZAI YUAN	1
R413	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	1
R411	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	1
R126	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	1

R125	061G0402222 JT	RST CHIP 2K2 1/16W 5% TZAI YUAN	1
R116	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R133	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R454	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R701	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R719	061G0402223 JT	RST CHIP 22K 1/16W 5% TZAI YUAN	1
R423	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	1
R416	061G0402224 JT	RST CHIP 220K 1/16W 5% TZAI YUAN	1
R401	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R404	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R405	061G04023901FT	RST 0402 3.9K 1% 1/16W TZAI YUAN	1
R419	061G0402394 JI	RST 0402 390K 5% 1/16W	1
R408	061G04024700FT	RST CHIP 470R 1/16W 1%	1
R142	061G0402471 JT	RST CHIP 470R 1/16W 5% TZAI YUAN	1
R114	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R115	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R131	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R132	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R702	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R721	061G0402472 JT	RST CHIP 4K7 1/16W 5% TZAI YUAN	1
R120	061G0402750 JT	RST 0402 75R 5% 1/16W	1
R112	061G0402750 JT	RST 0402 75R 5% 1/16W	1
R107	061G0402750 JT	RST 0402 75R 5% 1/16W	1
R122	061G0603000 JT	RST CHIP MAX 0R05 1/10W TZAI YUAN	1
R417	061G0603331 JT	RST 0603 330R 5% 1/10W	1
R418	061G0603471 JT	RST CHIPR 470OHM +-5% 1/10W TZAI YUAN	1
FB701	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R726	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
R448	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	1
R449	061G1206301 JT	RST CHIPR 300 OHM +-5% 1/4W TZAI YUAN	1
C120	065G040210232K A	CAP 0402 1NF 10% 50V X7R	1
C434	065G040210412K M	CAP 0402 0.1UF 10% 16V X7R	2nd source
C434	065G040210412K T	CAP CHIP 0402 100nF 16V X7R	1
C417	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C418	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C419	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C422	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C424	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C425	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C427	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C701	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C703	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C704	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C706	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C712	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C713	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C718	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C415	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C113	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C114	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1

C115	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C117	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C118	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C119	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C402	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C403	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C405	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C408	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C409	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C410	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C411	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C412	065G040210412K Y	CAP 0402 100NF 10% 16V X7R	1
C414	065G0402105A5K 3	CAP CHIP 0402 1UF K 10V X5R	2nd source
C414	065G0402105A5K T	CAP 0402 1UF 10% 10V X5R	1
C428	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	1
C426	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	1
C182	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	1
C181	065G040222031J Y	CAP CHIP 0402 22P 50V NP0 +/-5%	1
C715	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C429	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C116	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C101	065G040222415K T	CAP CHIP 0402 220nF K 16V X5R	1
C110	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C108	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C107	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C105	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C104	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C102	065G040247312K T	CAP 0402 47NF 10% 16V X7R	1
C109	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	1
C106	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	1
C103	065G040250931C Y	CAP 0402 5PF 0.25pF 50V NP0	1
C404	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C401	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C413	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C416	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C421	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C423	065G0805475A2K 3	CAP 0805 4.7UF 10% 10V X7R	2nd source
C413	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C401	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C404	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C421	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C416	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
C423	065G0805475A2K T	CAP CHIP 0805 4.7uF K 10V X7R	1
FB409	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB407	071G 56K121 M	CHIP BEAD 120OHM 6A MGLB2012-120T-LF	1
FB407	071G 56K121 TA	CHIP BEAD 120R/6000mA HCB2012KF-121T60	2nd source
FB409	071G 56K121 TA	CHIP BEAD 120R/6000mA HCB2012KF-121T60	2nd source
FB401	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source
FB404	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source
FB405	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source

FB408	071G 56V301 B	CHIP BEAD 0805 300R 25% 700mA	2nd source
FB408	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB405	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB404	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
FB401	071G 56V301 M	CHIP BEAD 0805 300R 25% 700mA	1
D102	093G 64 42 P	BAV70 SOT23 BY PAN JIT	1
D101	093G 64 42 P	BAV70 SOT23 BY PAN JIT	1
ZD102	093G 39GA01 T	RLZ5.6B	1
ZD101	093G 39GA01 T	RLZ5.6B	1
E715	715G4502M01000004C	MAIN PCB FR4 DS 80X72+1.6£¨mm£©	1
E715	715G4502M01000004L	MAIN PCB FR4 DS 80X72+1.6(mm)	2nd source
	J07G 1 S214	wooden pallet	1
	J07G 1 S215	wooden pallet	1
	J12G6020 3	胶垫	1
	J15G8B50101101	MAIN FRAME(21.5 铁盘)	1
	J33G8B77 1 1C	LENS	2nd source
	J33G8B78AED 1B	KEY PAD	2nd source
	J34G8B94AEDBDB6010	BEZEL (21.5 前框)	1
	J34G8B95ABJ AB6010	REAR COVER(21.5 后壳)	1
	J34G8B96AED 1B6010	STAND TOP	1
	J34G8B97AED 1B6010	STAND	1
	J34G8B98AED 1B6010	BASE	1
	J37G8B11 1	HINGE	1
	J40G 22N61514A	ID LABEL i2252Vwe	2
	J40G 58161546A	POP LABEL	1
	J40G000261522A	CEL-1 label e2252Vw	1
	J40G000361555A	CARTON LABEL i2252Vwe	1
	J41G780061585N	WARRANTY BOOKLET	1
	J44G6002 S123	PAPER BOARD	1
	J44G6002 S152	paper plate	1
	J44G9003210 35	CORNER PAPER	1
	J44GB910101	EPS	1
	J44GB910201	EPS	1
	J44GB910615 2A	CARTON	1
	J45G 77 6	PE PACKING	1.73
	J45G 88626 9 R	PE BAG FOR MONITOR	1
	J52G 1185A6A	MIDDLE TAPE FOR CARTON	10
	J52G 1185A6B	MIDDLE TAPE FOR CARTON	2nd source
	J52G1001 18 2A	ALUMINIUM TAPE-140*40	1
	J52G1801 52 1	Mylar	1
	J52G1801 52 2	Mylar	1
	J70G22C1615 3A	CD Manual i2252Vwe	1
	KEPCBJA2	KEPC G4851-K01-000-0010-2-20110330	1
CN001	033G3802 6H	WAFER 6P RIGHT ANGLE PITCH 2.0	2nd source
CN001	033G3802 6H L	CONNECTOR 6PIN	1
LED001	081G 12 1F GH	LED GREEN/YELLOW GHZYG603D2-5B	1
LED001	081G 12 1F GP	LED Φ3mm 黄绿双色 GP32032M/G307-ZY-50-C	2nd source
	SMTKEPCBJA2	SMT FOR KEPC	1
R002	061G0603000 FF	RST CHIPR MAX0R01 1/10W FENGHUA	1
R004	061G06031001FF	RST CHIPR 1 KOHM +-1% 1/10W FENGHUA	1

R003	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
R001	061G06032001FF	RST CHIP 2KOHM 1% 1/10W FENGHUA	1
JR001	061G0805000 JT	RST 0805 0.05R MAX 1/8W	1
ZD001	093G 64 59 SU	ESD MLVS0603M04 0603	1
ZD002	093G 64 59 SU	ESD MLVS0603M04 0603	1
ZD003	093G 64 59 SU	ESD MLVS0603M04 0603	1
	AIKEPCBJA2	AI FOR KEPC	1
SW005	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	2nd source
SW004	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	2nd source
SW003	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	2nd source
SW002	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	2nd source
SW001	077G603S AI CJ	TACT SWITCH AI 2PIN SEALED	2nd source
SW001	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	1
SW002	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	1
SW003	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	1
SW004	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	1
SW005	077G603S AI HJ	TACT SWITCH AI 2PIN SEALED	1
E715	715G4851K0C000001C	KEY PCB FR1 SS 125X11+1.6(mm)	1
	P40GD000813 9A	A4 PALLET LABEL	1
	Q12G6600 6	FOOT	4
E09501	S95G179T30N707	FFC CABLE 1.0mm 30PIN 210MM	1