Service Manual

ViewSonic Pro8100-1

Model No. VS11856

Multimedia LCD Projector

(PRO8100-1_SM Rev. 1b Dec. 2008)

ViewSonic 381 Brea Canyon Road, Walnut, California 91789 USA - (800) 888-8583

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Product disposal at end of product life

The lamp in this product contains mercury. Please dispose of in accordance with local, state or federal laws.

Revision History

Revision	SM Editing Date	ECR Number	Description of Changes	Editor
1a	1/15/2008		Initial Release	Jamie Chang
1b	12/15/2008	VS-E080372	RSPL update	Sophia Kao

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1. Specifications

Technical Specification

	Pro8100
Display Type	3 x 0.74-inch LCD projector
Resolution(Pixels)	1920 x 1080 (1.07 Billion Colors)
F #	F = 1.83 – 2.36
Focal Length	f = 23.5 to 37.6 mm
Focus / Zoom	Motorized / Motorized 1.6x
Lens shift	Vertical: ±75% Horizontal: ±5%
Projection distance	40” – 300”
Computer input	Analog RGB, D-sub 15 pin
Video input	HDMIx2, Component video (YCbCr/YPbPr)x2, Composite videox1, S-Videox1.
Other terminals	RS-232, USB, DC 5V, DC 12V trigger
Computer Compatibility	Please refer to timing table above.
Video Compatibility	NTSC, PAL, SECAM, 1080i/p, 720p, 576i/p, 480i/p
Scanning Frequency Horizontal Frequency Vertical Frequency	 15-100kHz 50 - 90Hz
Operating temperature	0°C to +40°C / 32°F to +104°F
Rated	AC 100-240V~50-60Hz 2.5A
Dimension (W x H x D)	537 x 170 x 389mm
Weight	19.4±0.44 lbs (8.8±0.2kg)

Note: Designs and specifications are subject to change without prior notice

Lamp Specification

Product Type: Short arc mercury lamp with reflector.

USHIO's Type: NSH160HO

USHIO's Lamp Driver Type: PHG201G20UU

Initial Characteristics

Initial Burner Characteristics;

Wattage(W)	Lamp Voltage(V)	Lamp Current(A)	Efficiency((lm/W)	Arc Gap(mm)
DC160	70	2.3	57	1.05

Lamp Life

The lamp life represents the average number of hours when the illuminance drops to less than 50% of its initial value under the following conditions with specific optical system. The nominal lamp life at 160W is (2000) hours. USHIO will continue its lamp life measurement.

- The lamp must be operated under the proper temperature condition.
- The lamp must be operated on the USHIO's lamp driver.
- On/Off cycle: 2 hours on, 15 minutes off.
- Ambient temperature should be room temperature (about 25℃)
- Illuminance should be measured on the specific optical system.

Attention for handling

- Do not touch the lamp until it has cooled completely, because the lamp is very hot during operation and immediately after turned off.
- The lamp has to be fixed firmly to the base or socket.
- Turn off the power supply during maintenance.
- Do not hold the lamp except outer surface of the reflector.
- Wear protective gloves and eyeglasses when handling the lamp.
- Any unusual shock or vibration to the lamp should be avoided.
- The lamp contains the mercury. Its breakage might cause mercury to flow out of the reflector. Please manage provision at the customer's product.
- Do not pull the lead wire and plug by more than 24.5N.
- Please be careful of handling the lamp because it is made of glass.
- Please notice for keeping or handling the lamp, because there is a projection of this lamp with reflector ahead.
- Do not touch the bulb and the mirror area of the reflector.

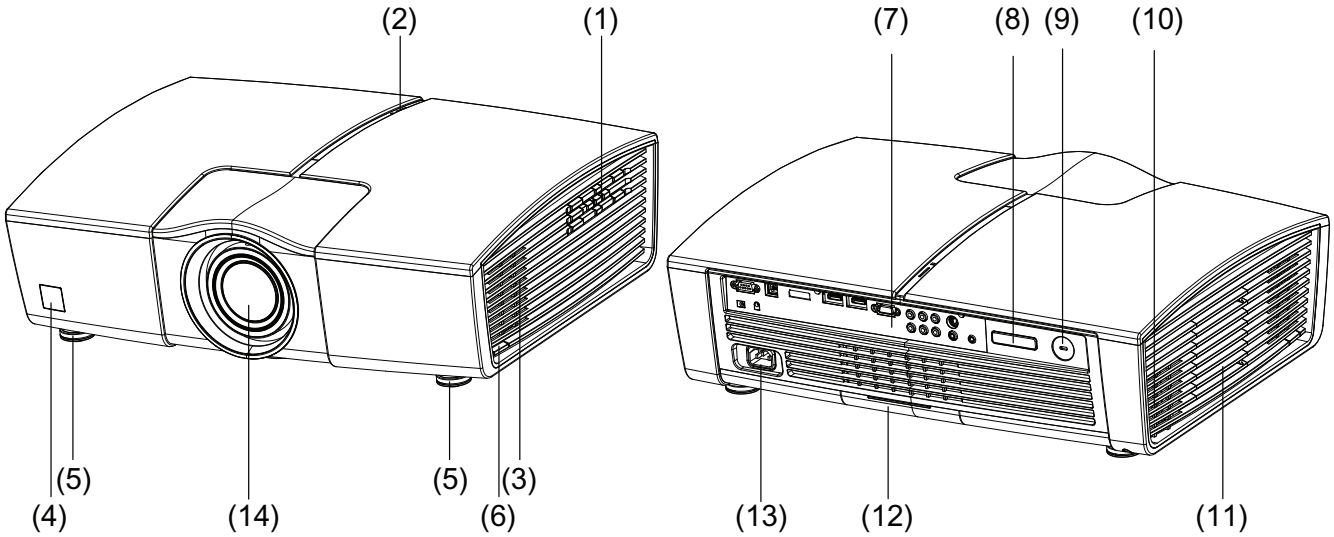
Attention for use

- Do not close or cover the lamp with any flammable stuff.
- During operation, the lamp is under extremely high pressure. Please manage provision at the customer's product to prevent fragments of bulb and mercury from flowing out of it. If the lamp bursts in case of an emergency, the sound will be occurred.
- Lamp operation should be with the specified lamp driver and the system ONLY.
- Do not look at the lamp directly during operations.
- Do not expose your skin directly. We recommend to you to put on something for protection for your skin. For example, long sleeve shirt, gloves, glassed and so on.
- Do not modify the lamp and never use a lamp that has been modified.
- Any unusual shock or vibration to the lamp should be avoided during operation.
- Do not use any broken lamps.
- Dispose of used lamps according to your local instruction.
- Do not turn on the lamp while the system is opened.
- The lamp contains mercury. If the lamp bursts during operation ventilate the area sufficiently to avoid inhaling harmful mercury fumes.
- Use the lead below 200°C to prevent a deterioration of cladding clad of the fluorocarbon resin.
- The lead wire insulation clad shouldn't touch the reflector.
- Exchange the lamp that has already passed the life time immediately.

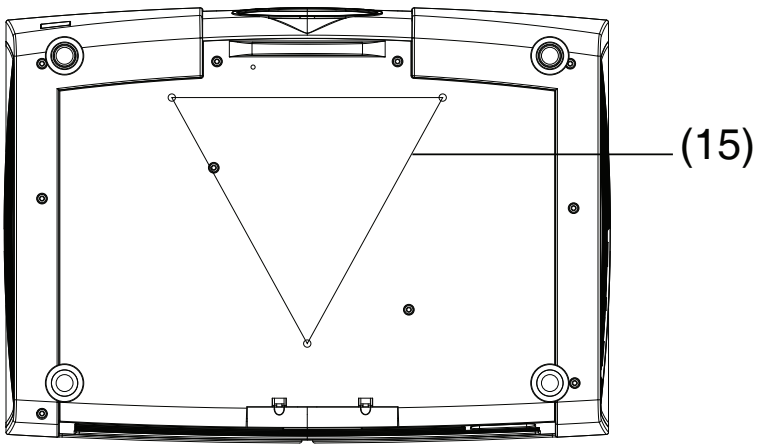
2. Front Panel Function Control Description

Location of features,Controls,and I/O

A. Projector overview

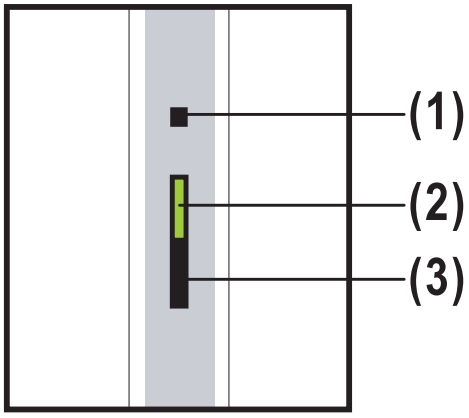


1. Control panel
2. LED indicator
3. Air inlet grille
4. Front IR remote control sensor
5. Elevation foot
6. Elevation button
7. Connection ports
8. Rear IR remote control sensor
9. Kensington lock
10. Air outlet grille
11. Lamp cover
12. Air filter cover
13. AC power socket
14. Projection lens
15. Ceiling mount (3-M6)



B.Control Panel

LED indicator:

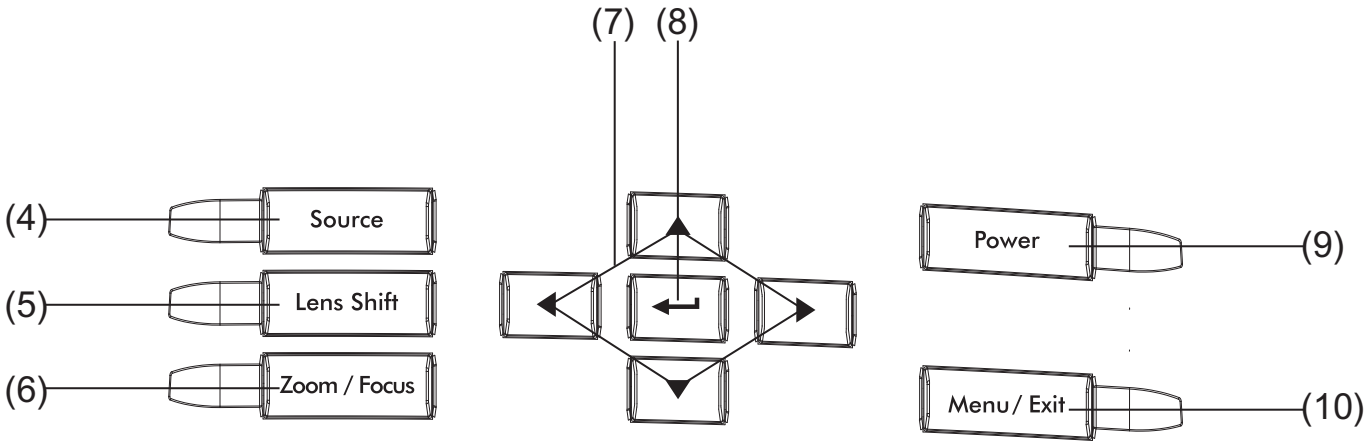


1. Daylight sensor.
2. Power indicator

   Refer to “LED Indicator Message” (Page 42).
3. Status indicator

   Refer to “LED Indicator Message” (Page 42).

Button Function:



4. Source

   Manually selects an input source.
5. Lens Shift

   Motorized vertical and horizontal lens shift for positioning display image without physically moving the unit.
6. Zoom/Focus

   Motorized zoom and focus adjust.
7. Four directional buttons

   Use four directional buttons to select items or make adjustments to your selections.
8. Enter

   To confirm selected menu item.
9. Power

   Turn on or off the projector.
10. Menu/Exit

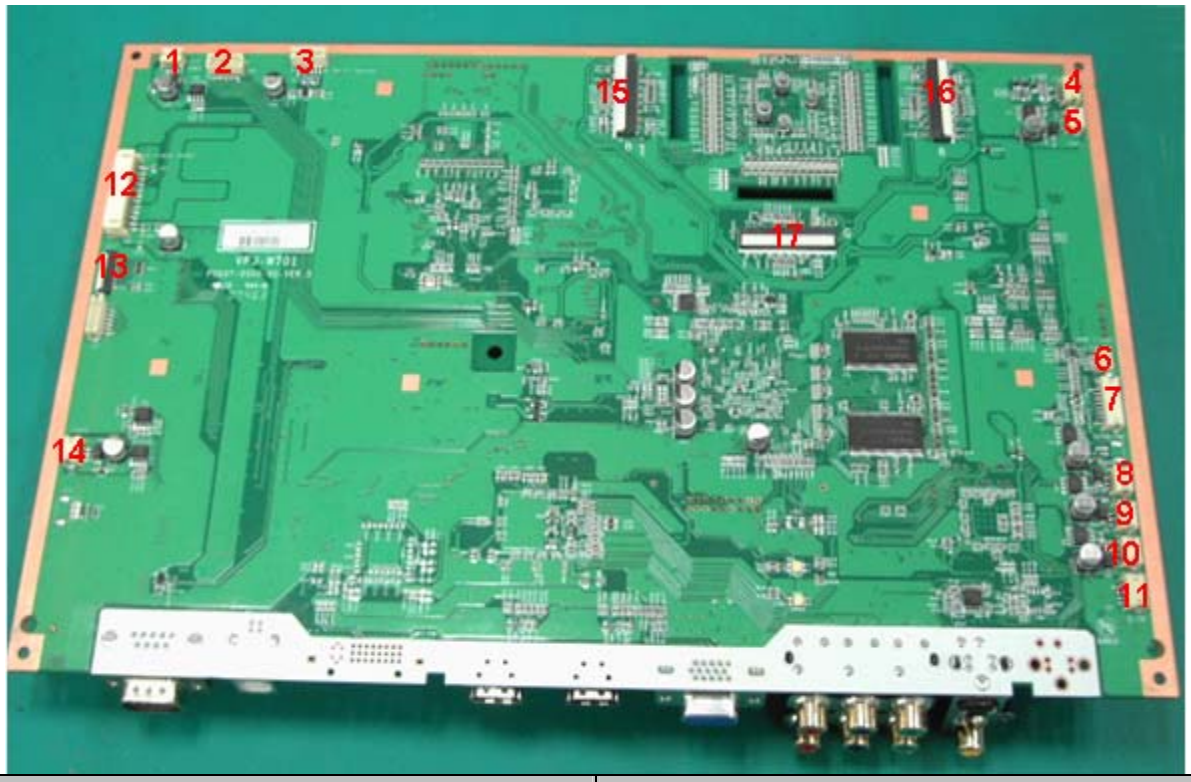
    Opens and Exits the on-screen menu.

3. Circuit Description

Connector Information

This section provides each connector location on boards and function of each board. They will be useful for your detecting the defective boards.

1. Main Board



Connector	Description
No 1	Fan5, left fan housing
No 2	Connector, main board---motor board
No 3	Connector, optical engine---main board
No 4	Front IR
No 5	Fan6, right fan housing
No 6	Ballast control
No 7	Thermal sensor
No 8	Fan3
No 9	Fan2
No 10	Fan1
No 11	Back IR
No 12	12 Pin Power control
No 13	Keypad control(FPC)
No 14	Fan4
No 15	R FPCB
No 16	G FPCB
No 17	B FPCB

2. Ballast Board

Connector	Description
No 1	Power supply
No 2	Lamp power supply
No 3	Ignite signal connected to Mainboard

3. Power board

Connector	Description
No 1	12-pin power control
No 2	2 pin wire (power board-motor board)
No 3	4 pin wire(power board-DC jack board)
No 4	2 pin wire (power board-DC jack board)
No 5	unused
No 6	380V power supply
No 7	thermostat
No 8	AC Input

ANSI Lumen Measuring

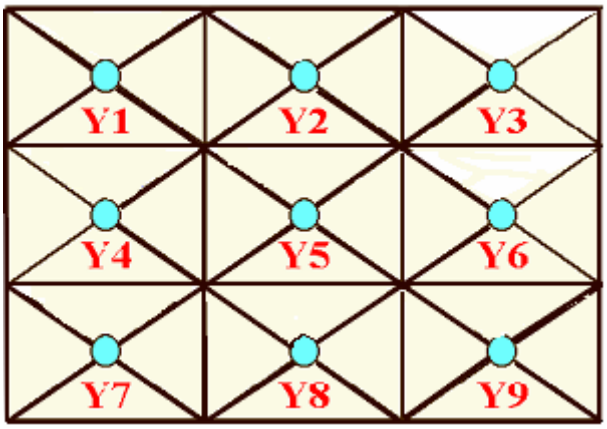
Chroma 7600 Video Pattern Generator values

Set diaphragm to wide size

Projection test chart to 60 inches (projection distance 2m) and measurement 9 points

Measuring equation: Brightness = [(Y1+Y2+...+Y9)/9] × Projection ratio

DVI Pattern: 102



Appendix B: Service Level Definition

Level 1 : Cosmetic Parts ; Easy To Repair	**Lamp Module / Lens Cap assy**
Level 2 : Module Replacement	**Top Case assy / Low Case assy / Housing R Vent / Housing L Vent assy / Ring Zoom / Lens Deco CVR / Lamp Door / Power assy / Ballast Board assy / DC Jack Board / Motor Board / Keypad assy / FAN assy / IR sensor assy / thermal sensor**
Level 3 : Board Level Repair or RTV	**Optical Engine (LCD Panel / lens)**

Level 1: End user can replace by themselves

Level 2: Service Center

Level 3: RTV

Connection Definition

13-1. VGA IN

PIN	DEFINITION
1	R/Pr
2	G/Y
3	B/Pb
4	Ground
5	Ground
6	Ground
7	Ground
8	Ground
9	VCC
10	Ground
11	WC-A
12	EDIDA-SDA
13	Hsync
14	Vsync
15	EDIDA-SCL

13-2. HDMI1

PIN	DEFINITION
1	RX2+
2	Ground
3	RX2-
4	RX1+
5	Ground
6	RX1-
7	RX0+
8	Ground
9	RX0-
10	RXC+
11	Ground
12	RXC-
13	HDA_CEC
14	NC
15	HDA_SCL
16	HDA_SDA
17	Ground
18	+5V
19	PLUGA_DET

13-3. HDMI2

PIN	DEFINITION
1	RX2+
2	Ground
3	RX2-
4	RX1+
5	Ground
6	RX1-
7	RX0+
8	Ground
9	RX0-
10	RXC+
11	Ground
12	RXC-
13	HDB_CEC
14	NC
15	HDB_SCL
16	HDB_SDA
17	Ground
18	+5V
19	PLUGB_DET

13-4. USB

PIN	DEFINITION
1	VBUS
2	USB_DP
3	USB_DM
4	Ground
5	Ground
6	Ground

RS232 Command

1.protocol setting

2.RS-232 Command and Configuration

Name	Operation type	Send String (HEX)
power	ON	BE EF 10 05 00 C6 FF 11 11 01 00 01 00
	OFF	BE EF 02 06 00 57 D0 2E 00 00 00 00 00
source	Computer (Analog RGB1)	BE EF 02 06 00 0B D2 32 00 00 00 00 00
	Component 1	BE EF 02 06 00 DA D3 33 00 00 00 00 00
	Component 2	BE EF 02 06 00 85 DA 5C 00 00 00 00 00
	S-Video	BE EF 02 06 00 6D D2 34 00 00 00 00 00
	Composite Video	BE EF 02 06 00 BC D3 35 00 00 00 00 00
	HDMI-1	BE EF 02 06 00 8F D3 36 00 00 00 00 00
	HDMI-2	BE EF 02 06 00 5E D2 37 00 00 00 00 00
Key-Pad & IR command	Picture mode	BE EF 02 06 00 3B D9 42 00 00 00 00 00
	Color Temp	BE EF 02 06 00 EA D8 43 00 00 00 00 00
	Aspect Ratio	BE EF 02 06 00 5D D9 44 00 00 00 00 00
	Menu	BE EF 02 06 00 8C D8 45 00 00 00 00 00
	Exit	BE EF 02 06 00 BF D8 46 00 00 00 00 00
	Up	BE EF 02 06 00 6E D9 47 00 00 00 00 00
	Down	BE EF 02 06 00 91 D9 48 00 00 00 00 00
	Left	BE EF 02 06 00 40 D8 49 00 00 00 00 00
	Right	BE EF 02 06 00 73 D8 4A 00 00 00 00 00
	PCS	BE EF 02 06 00 A2 D9 4B 00 00 00 00 00
	Daylight Sensor	BE EF 02 06 00 15 D8 4C 00 00 00 00 00
	Overscan	BE EF 02 06 00 C4 D9 4D 00 00 00 00 00
	Black level	BE EF 02 06 00 F7 D9 4E 00 00 00 00 00

	HQV	BE EF 02 06 00 26 D8 4F 00 00 00 00 00
	Freeze	BE EF 02 06 00 49 DA 50 00 00 00 00 00
	Input	BE EF 02 06 00 98 DB 51 00 00 00 00 00
	V/H keystone	BE EF 02 06 00 AB DB 52 00 00 00 00 00
Special command	Lens shift Right	BE EF 02 06 00 54 DB 5D 00 00 00 00 00
	Lens shift Left	BE EF 02 06 00 67 DB 5E 00 00 00 00 00
	Lens shift Up	BE EF 02 06 00 B6 DA 5F 00 00 00 00 00
	Lens shift Down	BE EF 02 06 00 B9 DF 60 00 00 00 00 00
	Focus +	BE EF 02 06 00 E3 DA 5A 00 00 00 00 00
	Focus -	BE EF 02 06 00 32 DB 5B 00 00 00 00 00
	Zoom +	BE EF 02 06 00 68 DE 61 00 00 00 00 00
	Zoom -	BE EF 02 06 00 5B DE 62 00 00 00 00 00
Data get	Error Code Get	BE EF 1A 0C 00 7A 46 4F 00 01 00 00 00 00 00 00 00 00 00
	Filter Counter Get	BE EF 1A 0C 00 91 93 50 00 01 00 00 00 00 00 00 00 00 00
	Temp Get	BE EF 1A 0C 00 52 6E 51 00 01 00 00 00 00 00 00 00 00 00
	Lamp Life Get	BE EF 1A 0C 00 56 6A 52 00 01 00 00 00 00 00 00 00 00 00
	Unit on time Get	BE EF 1A 0C 00 89 8B 5A 00 01 00 00 00 00 00 00 00 00 00
	Return	1E – – – –

Compatible timing table

Analog PC timing			
Mode	Mode Resolution	V-Sync	H Sync
VGA DOS/Text mode visible	640 x 480	50Hz	24.69 kHz
	640 x 480	60Hz	31.5 kHz
	640 x 480	72Hz	37.9 kHz
	640 x 480	75Hz	37.5 kHz
	640 x 480	85Hz	43.3 kHz
SVGA	800 x 600	50 Hz	30.99 kHz
	800 x 600	56 Hz	35.2 kHz
	800 x 600	60 Hz	37.9 kHz
	800 x 600	72 Hz	48.1 kHz
	800 x 600	75 Hz	46.9 kHz
	800 x 600	85 Hz	53.7 kHz
XGA	1024 x 768	50Hz	39.63 kHz
	1024 x 768	60Hz	48.4 kHz
WXGA	1280x768	60 Hz	47.8 kHz

SXGA	1280 x 1024	64.0 kHz	60 Hz
	1280 x 1024	80.0 kHz	75 Hz
Coordinated Video Timing	640 x 480	67 Hz	35 kHz
	832 x 624	75 Hz	49.72 kHz
	1024 x 768	75 Hz	60.24 kHz
Others	1280 x 720	60 Hz	45.1 kHz
	1280 x 800	60 Hz	49.7 kHz
	1280 x 800	75 Hz	62.8 kHz
	1280 x 800	85 Hz	71.6 kHz
	1360 x 768	60 Hz	47.7 kHz
	1400 x 1050	60 Hz	65.3 kHz
	1440 x 900	60 Hz	55.9 kHz
	1600 x 1200	60 Hz	75 kHz
	1680 x 1050	60 Hz	65.3 kHz
	1920 x 1080	60 Hz	33.8 kHz
	1920 x 1080	60 Hz	67.5 kHz
Digital PC timing (HDMI)			
Mode	**Mode Resolution**	**V-Sync**	**H Sync**
VGA (DOS/Text mode visible)	640 x 480	60 Hz	31.5 kHz
480p	720 x 483	60 Hz	31.5 kHz
SVGA	800 x 600	60 Hz	37.9 kHz
XGA	1024 x 768	60 Hz	48.4 kHz
720p	1280 x 720	60 Hz	45 kHz
WXGA	1280 x 768	60 Hz	47.8 kHz
SXGA	1280 x 1024	60 Hz	64.0 kHz
SXGA+	1400 x 1050	60 Hz	65.3 kHz
WSXGA+	1680 x 1050	60 Hz	65.3 kHz
1080i	1920 x 1080	60 Hz	33.8 kHz
1080p	1920 x 1080	60 Hz	67.5 kHz
UXGA	1600 x 1200	60 Hz	75 kHz
Others	1280 x 800	60 Hz	49.7 kHz
	1280 x 960	60 Hz	60.0 kHz
	1360 x 768	60 Hz	47.7 kHz
	1440 x 900	60 Hz	55.9 kHz
Compatible/Supportive timing Note: the Projector may need minor adjustment in the OSD to get optimized performance,			

when below video signals is input to it through the HDMI connector.			
480i60	720x480	60	15.8k
480p60	720x480	60	31.5k
576i50	720x576	50	15.6k
576p50	720x576	50	31.3k
720p50	1280x720	50	37.5k
720p60	1280x720	60	45.0k
1080i50	1920x1080	50	28.1k
1080i60	1920x1080	60	33.8k
1080p50 (Native)	1920x1080	50	56.3k
1080p60 (Native)	1920x1080	60	67.5k

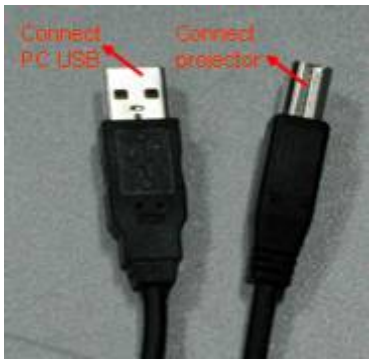
4. Adjustment Procedure

Firmware Upgraded Flow

This chapter provides the information regarding relevant equipments and upgrading procedure for LCD projector firmware upgrade.

Note:

Firmware upgrade process is not necessary. Please check the firmware and composer version before any procedures. During firmware download period, please do not shut down PC or projector, this will cause flash memory's damage. And need to return the unit to manufacturer for flash memory recovery.

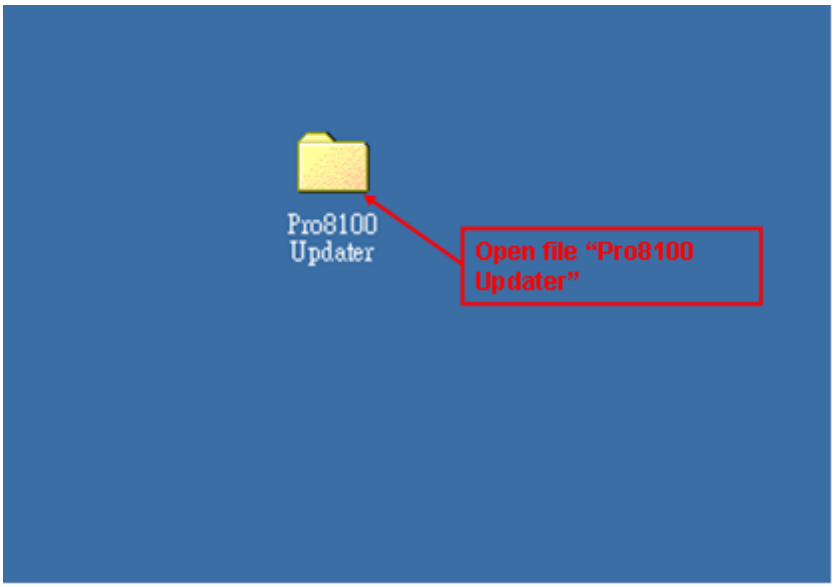


Setup Tool/Equipment

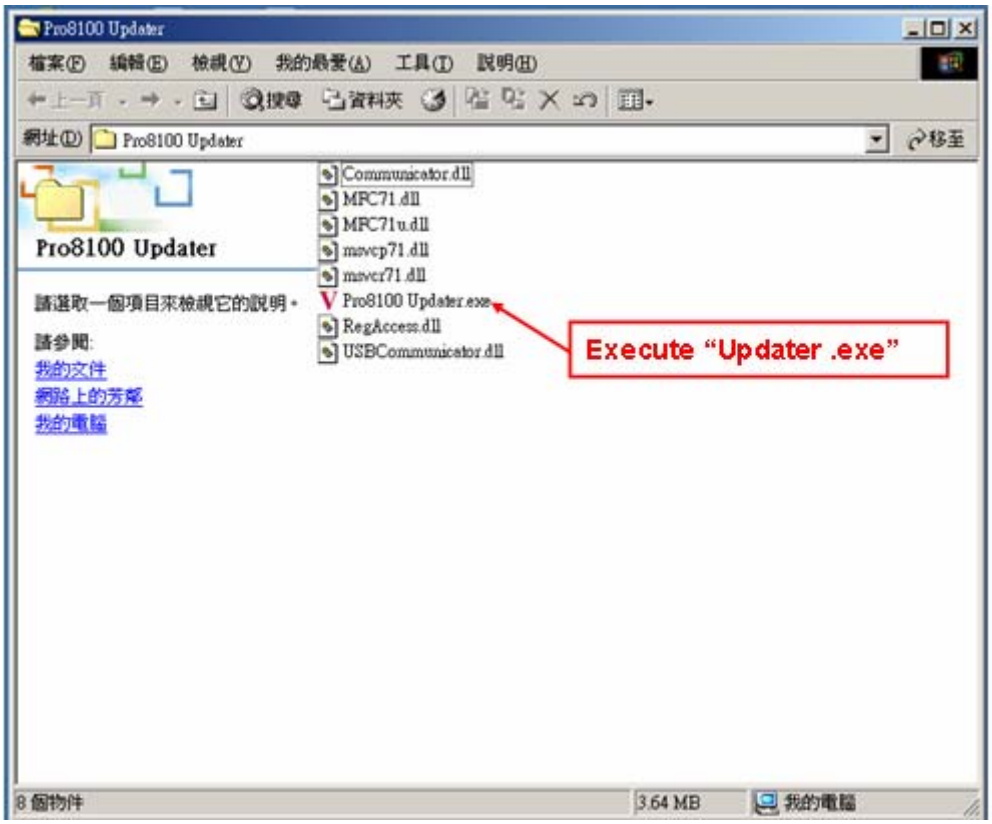
- Computer
- USB Cable
- Power Cord

Upgrading Procedure

1. Connect USB cables on NB/PC and Pro8100.
2. To get into Service mode: Press on the Menu button then press Power button. (The Top LED will flash quickly)
3. Open "Pro8100 Updater" file

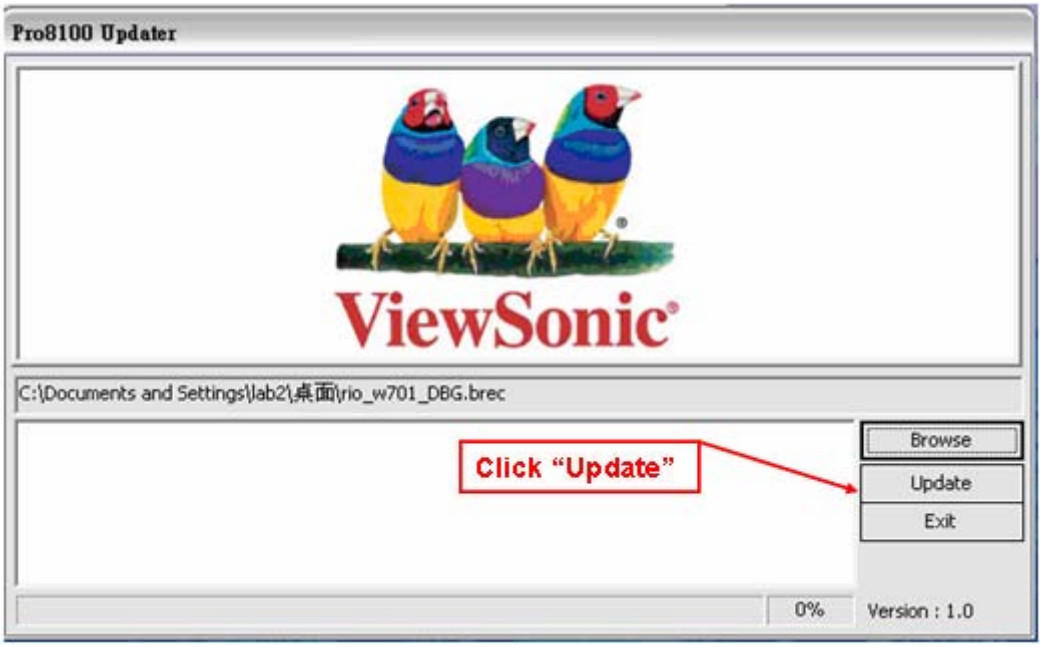


4. Execute “Updater.exe” file on the PC.



5. Click on the Browse button and browse the “xxxxx.brec” file.

6. Press Update button to upload the F/W into Pro8100.

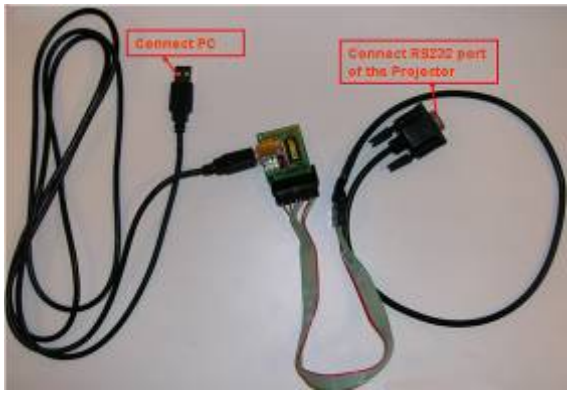


7. After Firmware upgrades completed. Press Exit button to exit the updater. Remove USB cable and power cable.

Jepico F/W update procedure

2.3 Setup Tool/Equipment

- Computer
- USB Cable
- Power Cord



2.4 Upgrading Procedure

Installing Writer SPI-ROM for L0046 Software

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System Requirements

- Microsoft Windows XP must be installed.
- Monitor supporting 1024 X 768 or greater resolution with at least 256 colors.
- 10/100 Mb Ethernet connection for downloading Microsoft .NET Framework 2.0.
- Parallel port for programming SPI-ROM. If you use ROM programmer tool, not require Parallel Port.

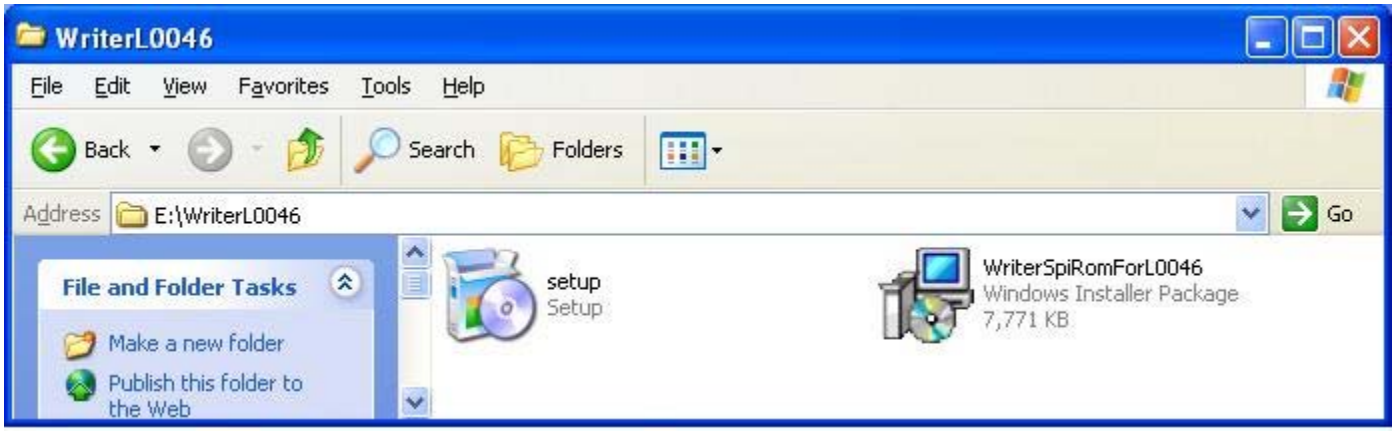
Installation Procedure

<NOTE>:

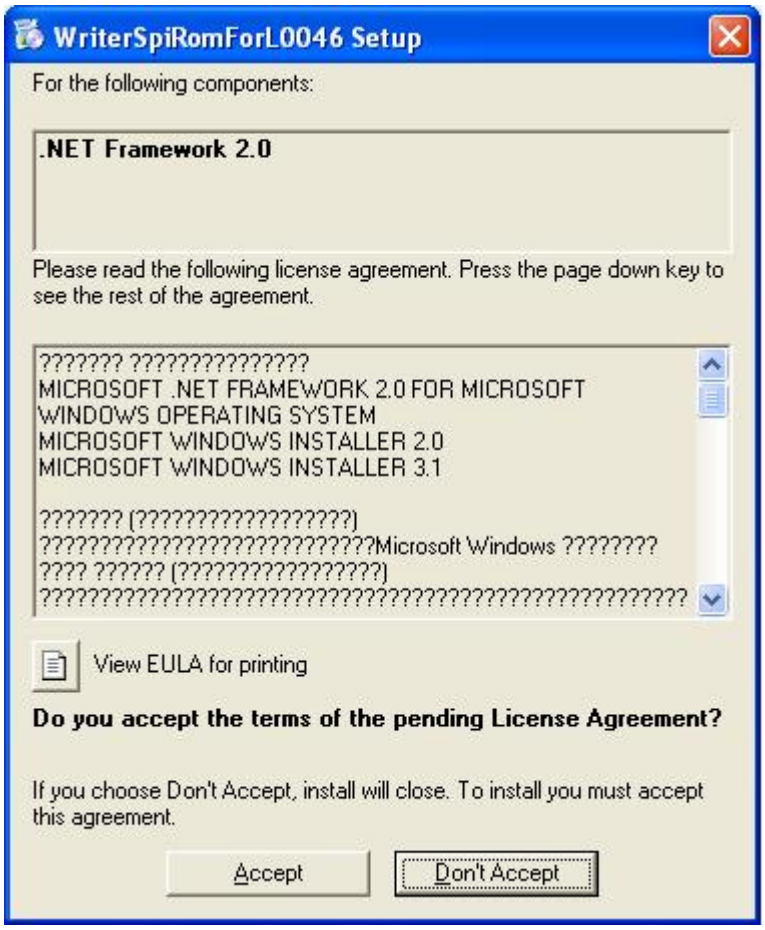
This software requires Microsoft .NET Framework 2.0 via Internet. Please make sure your PC is connected to the Internet.

1. Install WriterSpiRomForL0046 software

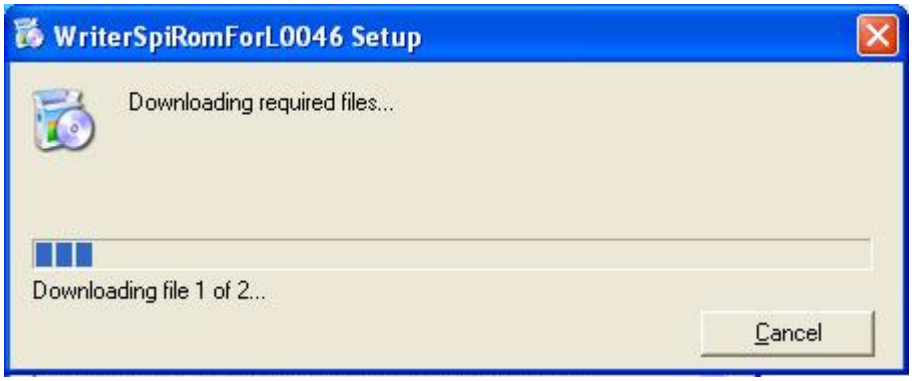
(1) Double-click setup.exe icon in the Soft directory



(2) **Microsoft .NET Framework 2.0** installation wizard will launch. Click **Accept**.

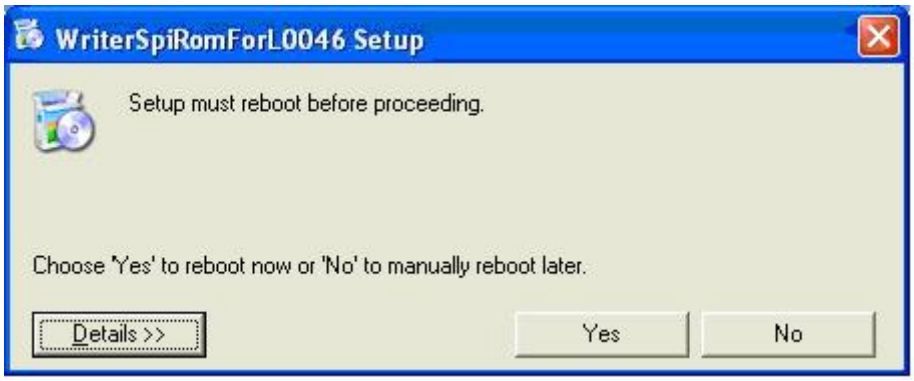


(3) This installation may take about 5 minutes.

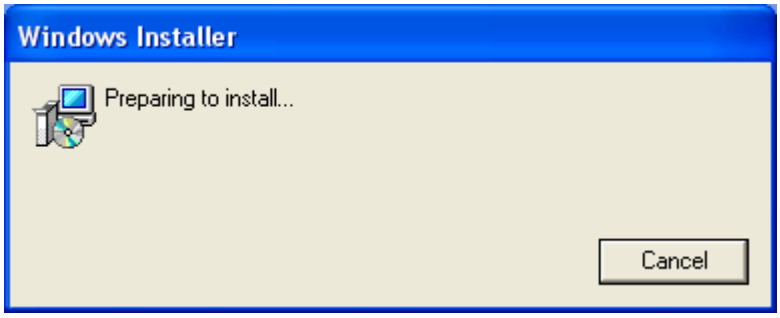


(4) After finish downloading, if you see following dialog, click Yes to reboot your PC.

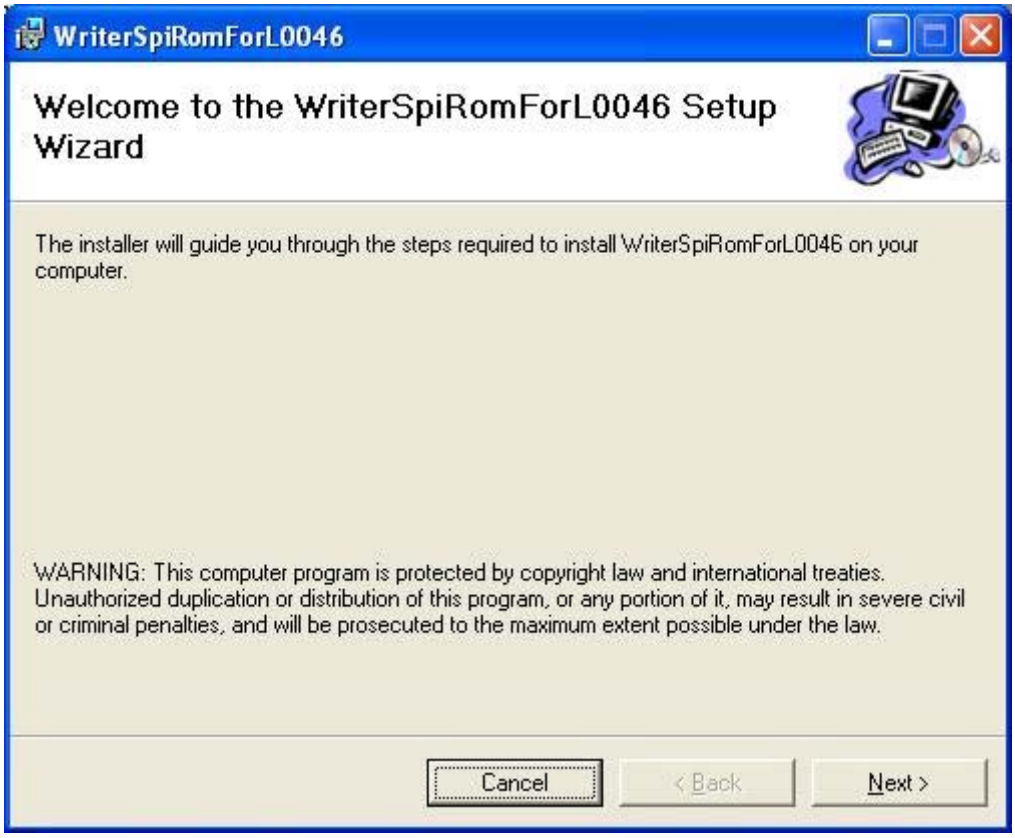
If not require to reboot, you will see Welcome to the WriteSpiRom For L0046 Setup Wizard. Please go to (6).



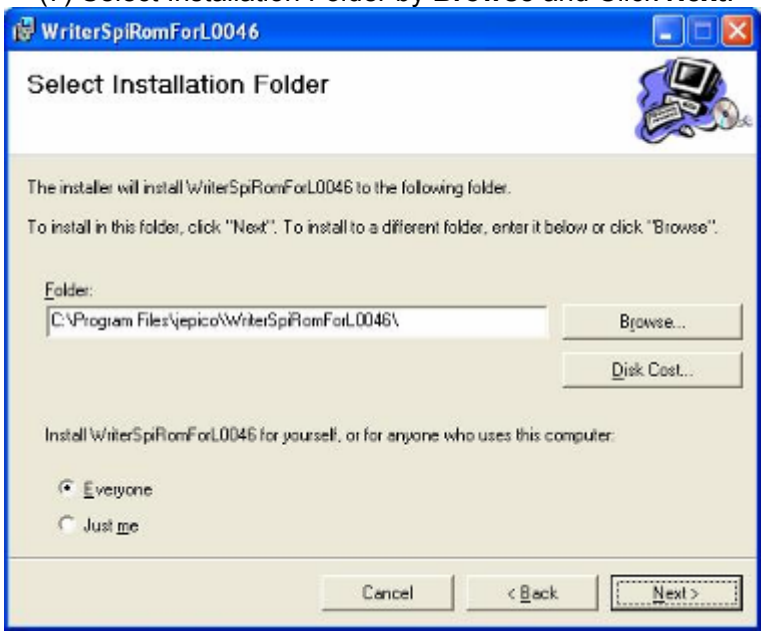
(5) After rebooting, following dialog will be automatically appeared. If not appeared, please double-click setup.exe icon in the \Soft directory.



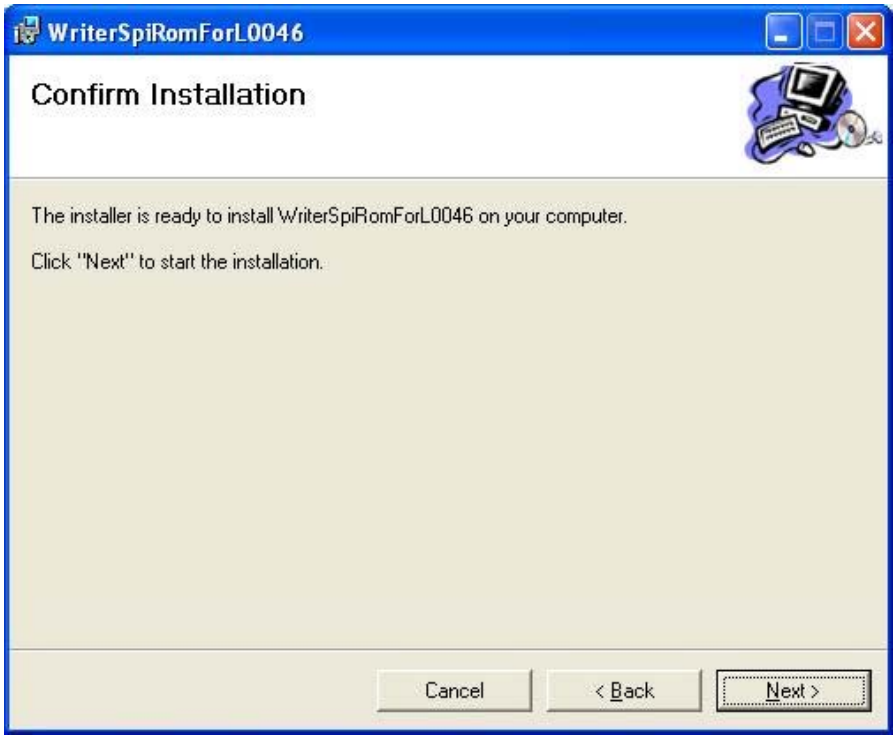
(6) Click **Next**.



(7) Select Installation Folder by **Browse** and Click **Next**.



(8) Click **Next**.



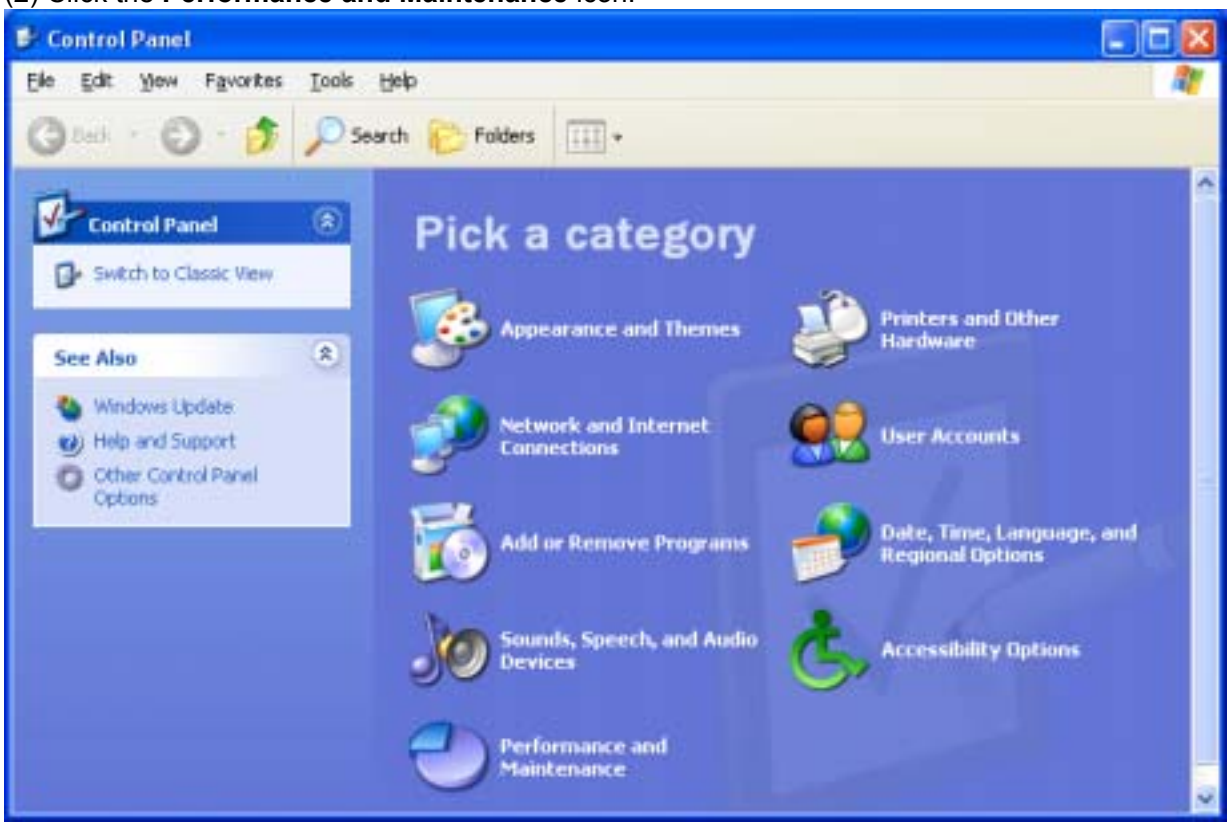
(9) Click **Close**.

(10) After installation complete, short-cut icon will be appeared on the desk-top.

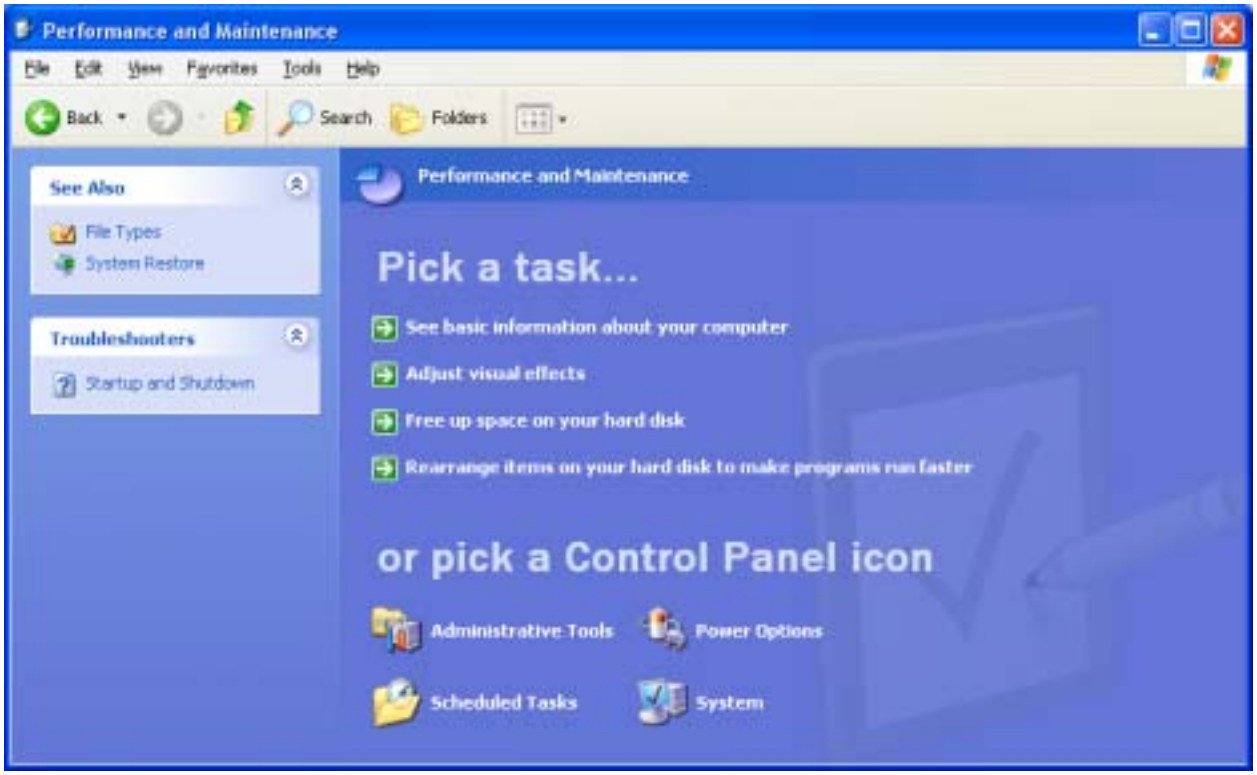
2. Install LPT Driver

If you use ROM programmer tool, LPT Driver installation is not required.

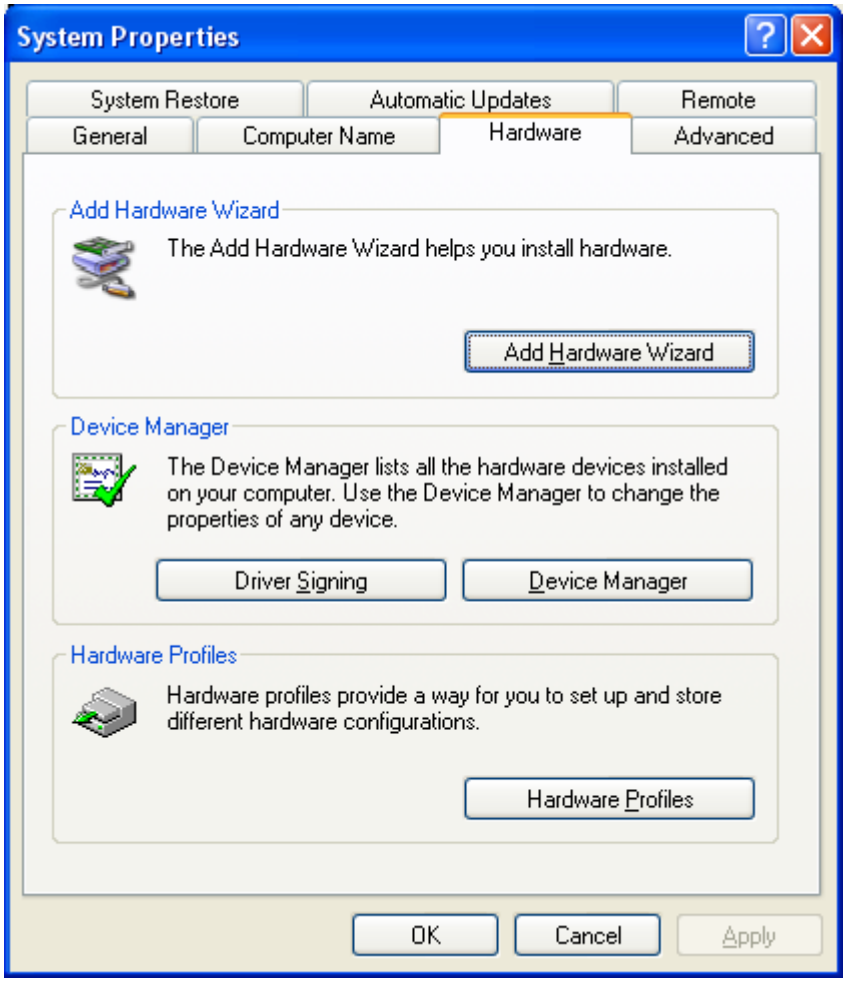
(2) Click the **Performance and Maintenance** icon.



(3) Click the **System** icon

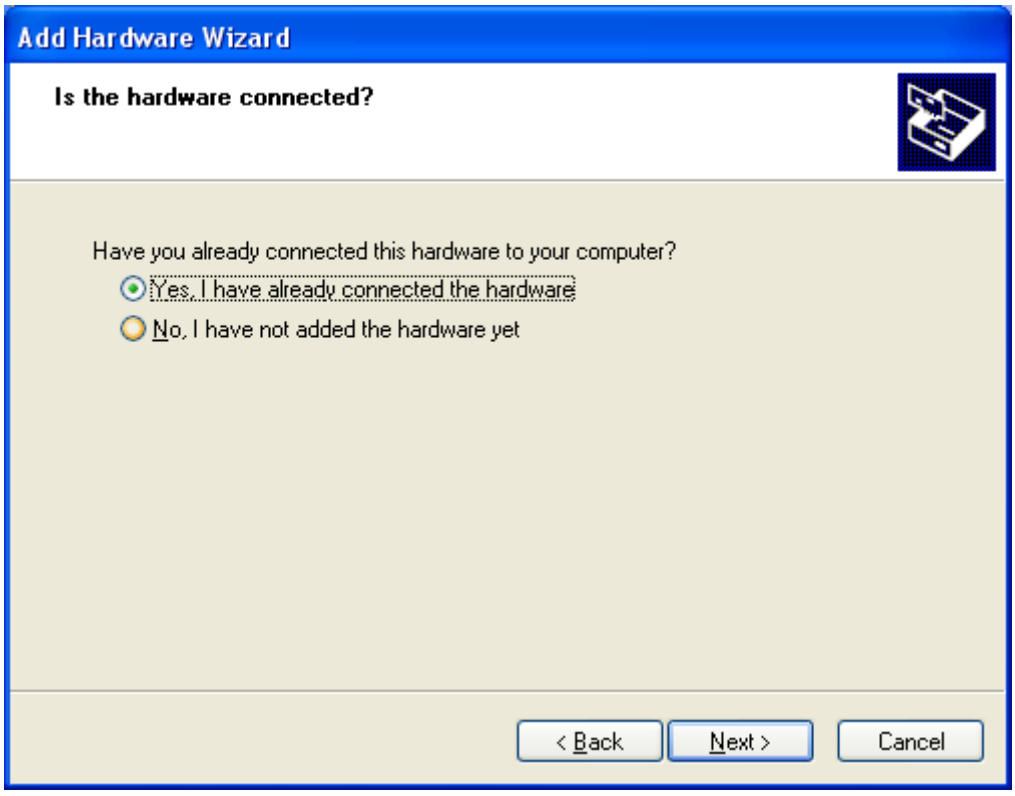


(4) Select **Hardware** menu and click **Add Hardware Wizard**.

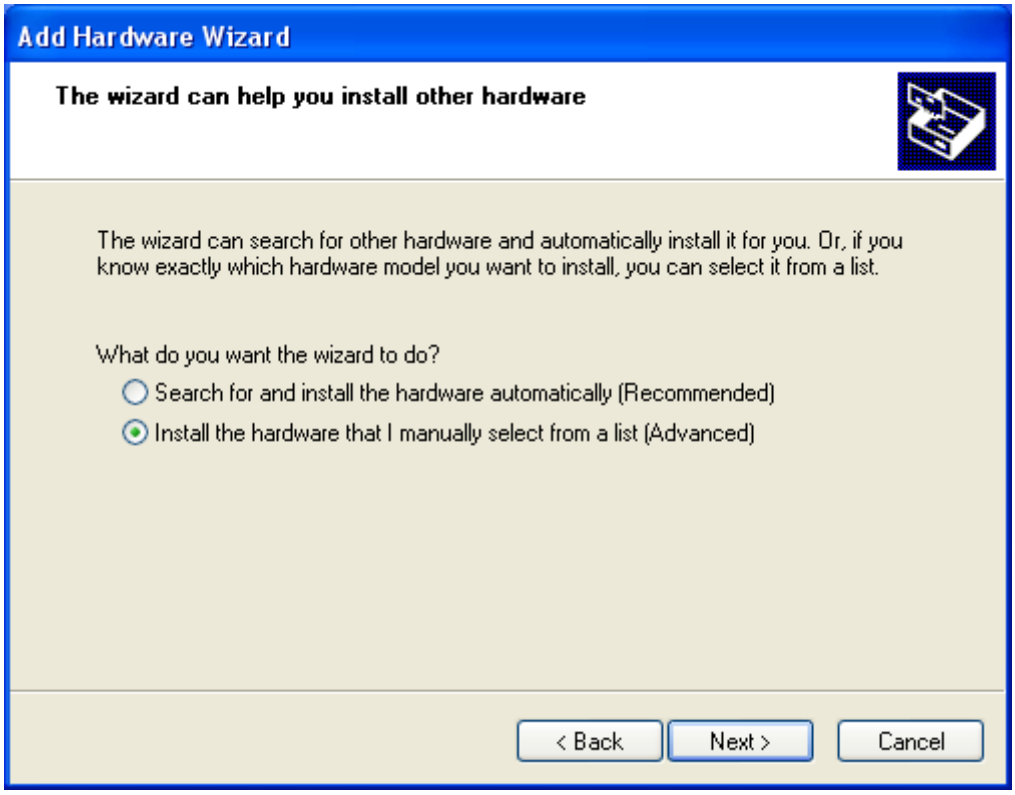


(5) Click **Next** to continue.

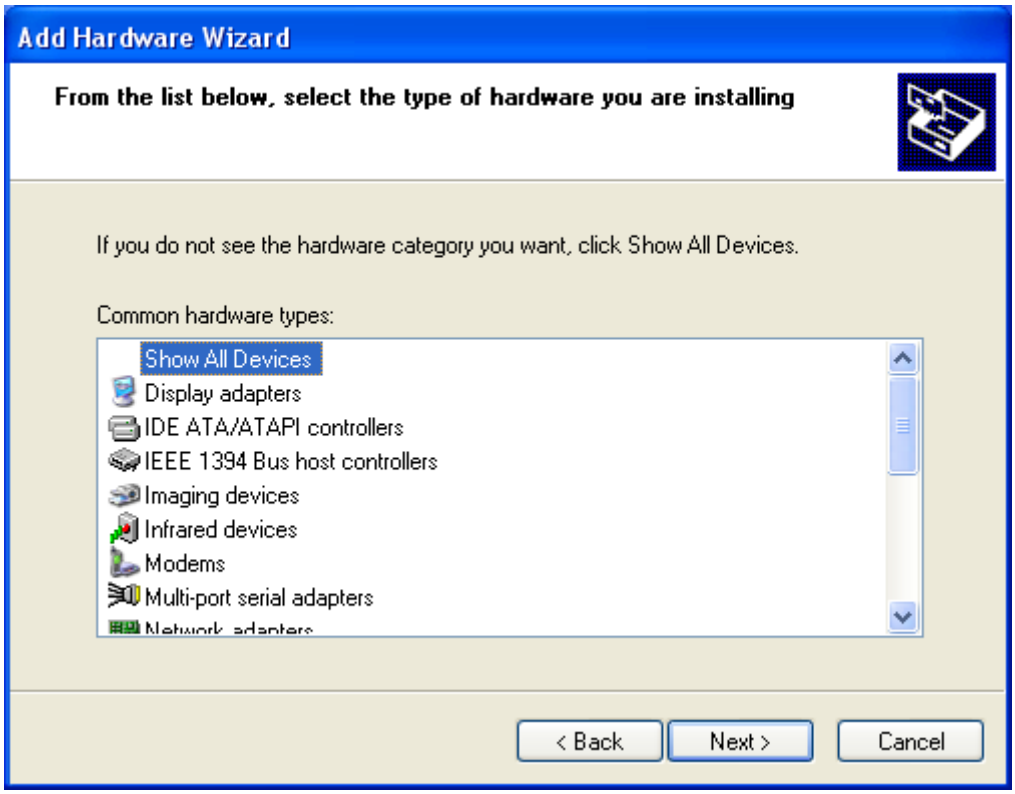
(6) Select **Yes, I have already connected the hardware** and click **Next**.



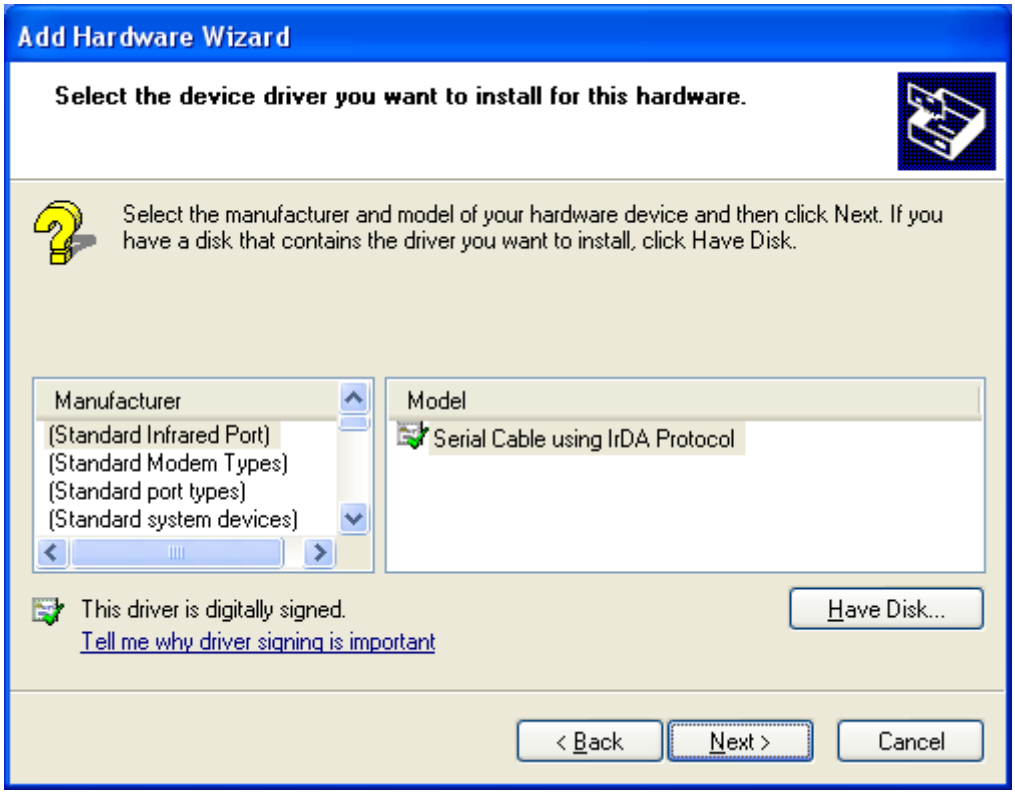
(8) Select **Install the hardware that I manually select from a list (Advanced)** and click **Next** to continue.



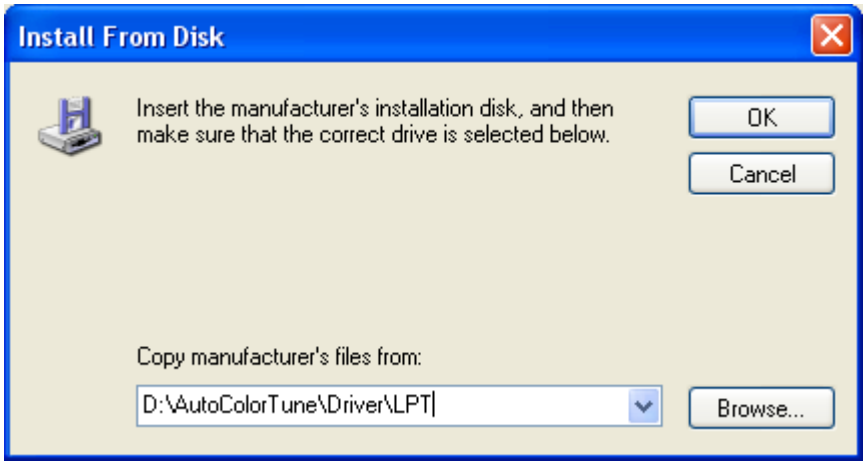
(9) Select **Show All Devices** and click **Next** to continue.

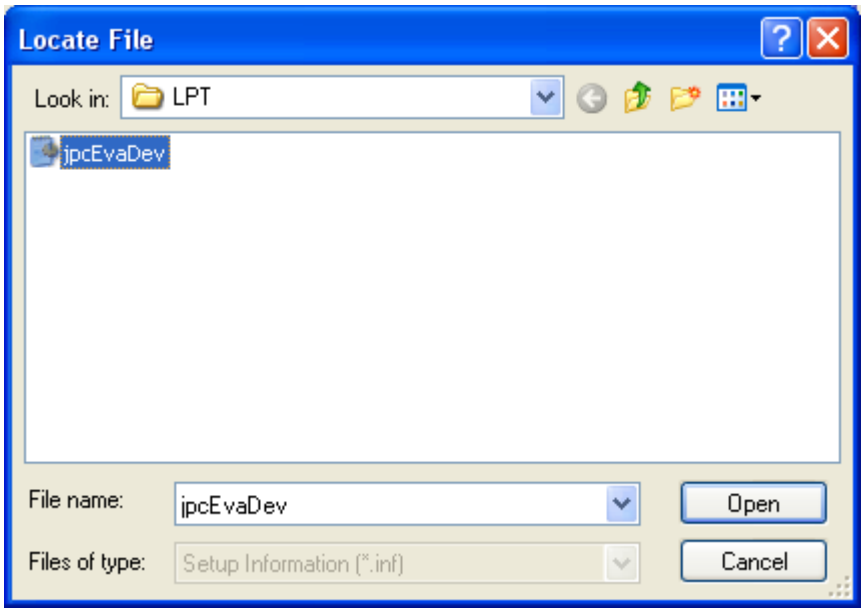


(10) Select **Have Disk ...**.

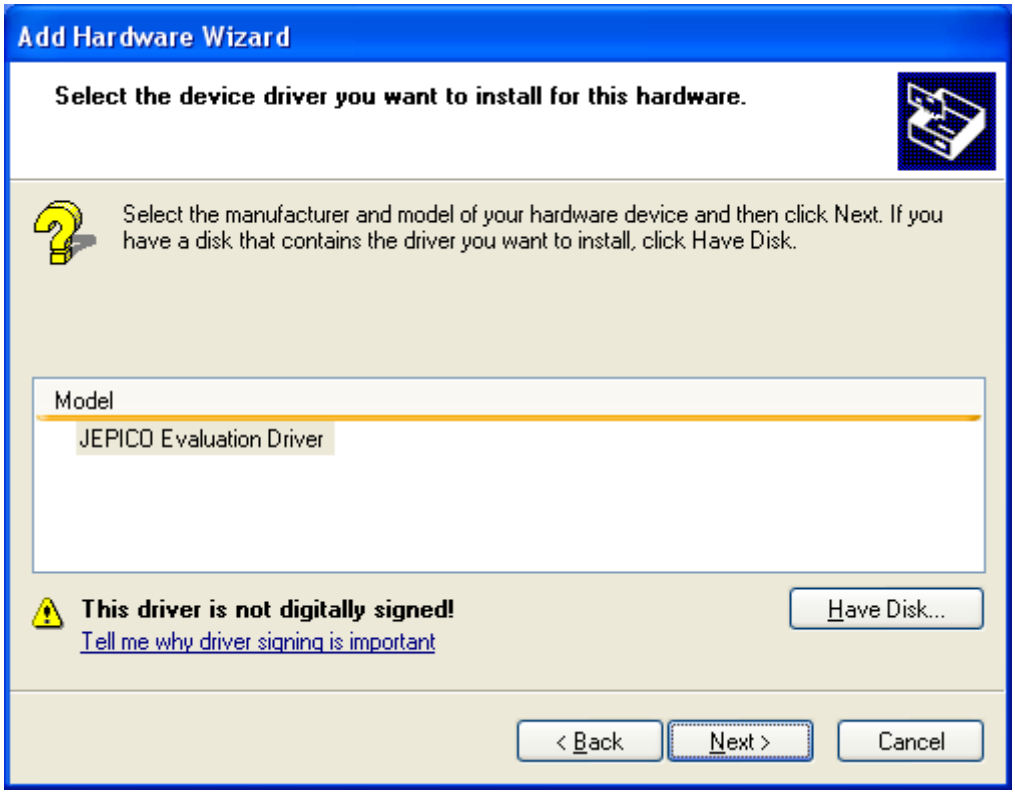


(11) Browse to the **jpcEvaDev.inf** file in the **\Driver \ LPT** directory and click **OK**.

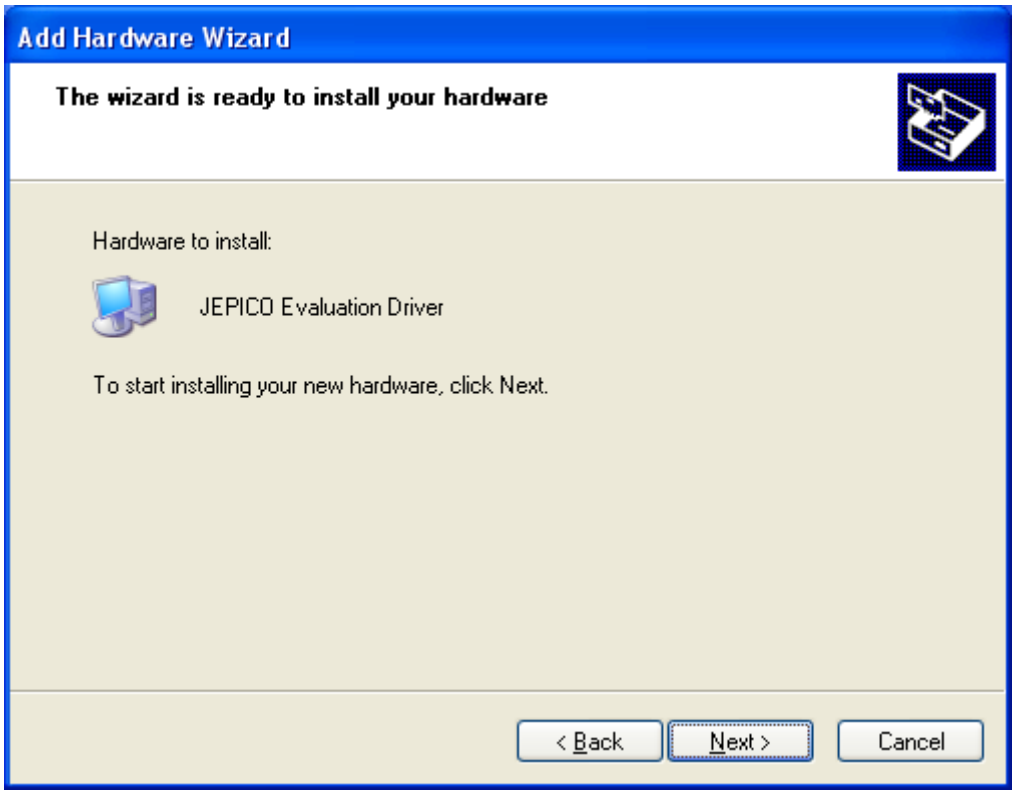




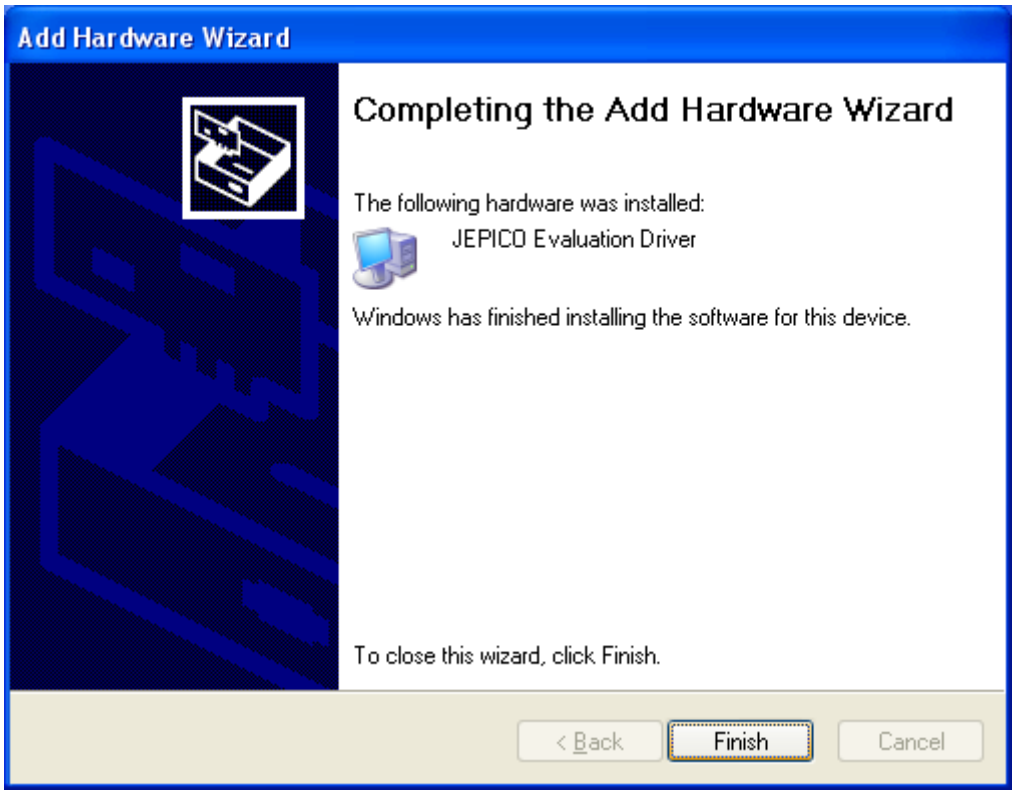
(12) Click **Next** to continue.



(13) Click **Next** to continue.



(14) Click **Finish** in the **Completing the Add Hardware Wizard** dialog.



3. Install MiniFX2 Driver

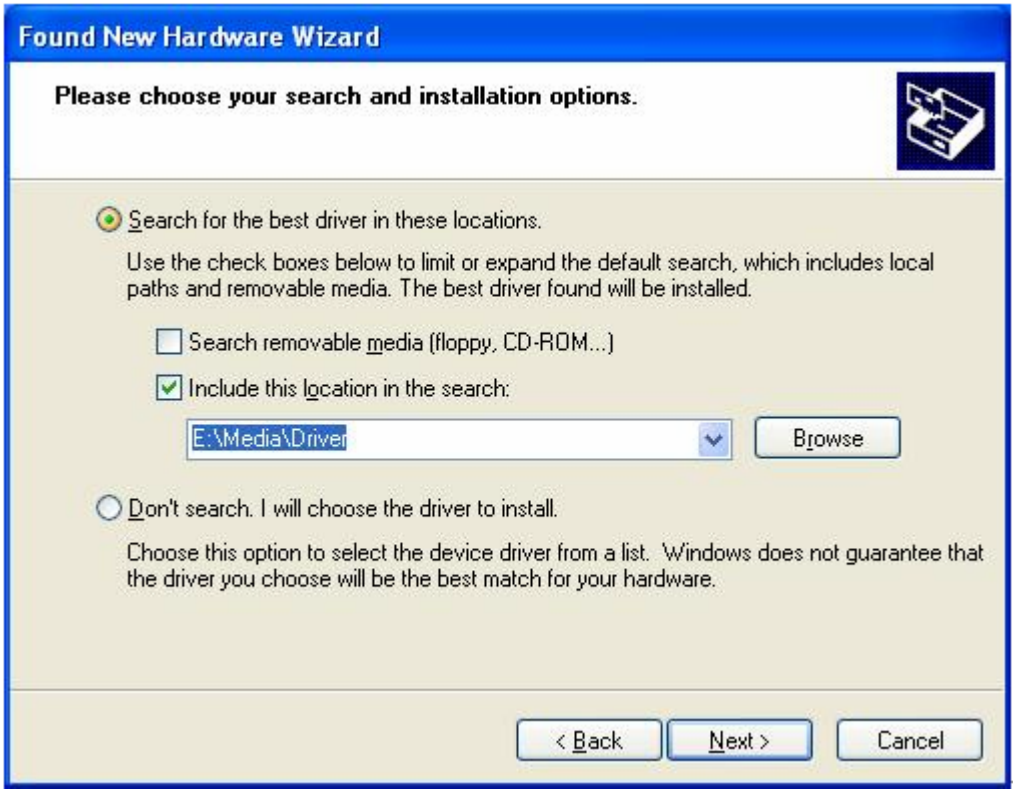
If you use ROM programmer tool, MiniFX2 Driver installation is not required

(1) Connect MiniFX2 Board to the USB Port.

(2) Select Not, not this time And click Next to continue

(3) Select Install from a list or specific location[Advanced] And click Next to continue.

(4) Browse to the ezusb.inf file in the ¥Driver¥MiniFX2 directory and click Next to continue.



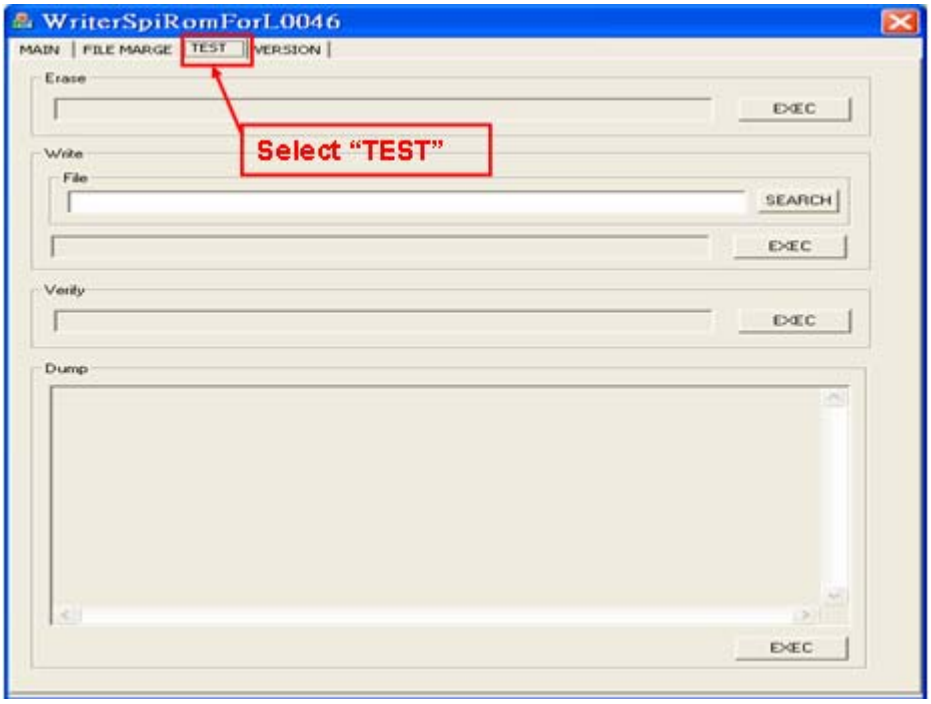
(5)Click Continue Anyway.

(6)Click Finish in the Completing the New Hardware Wizard dialog.

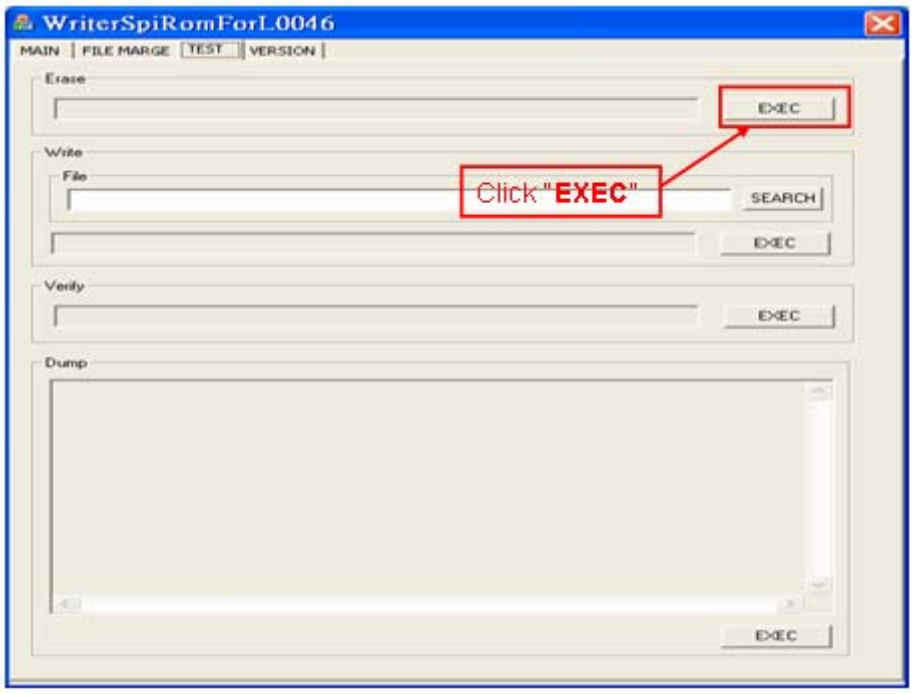
Operating Procedure

1. Plug the burner board USB port into the PC, Plug the connector cable into RS232 port of the projector.
2. Turn on the projector, Press the direction keypad following the actions below: Up twice, down twice, left once, right once, left once, right once(▲▲▼▼◄►◄►),press the MENU button, Enter the engineer mode, Setting PCS[1].
3. Double-click **WriterSpiRomForL0046**.

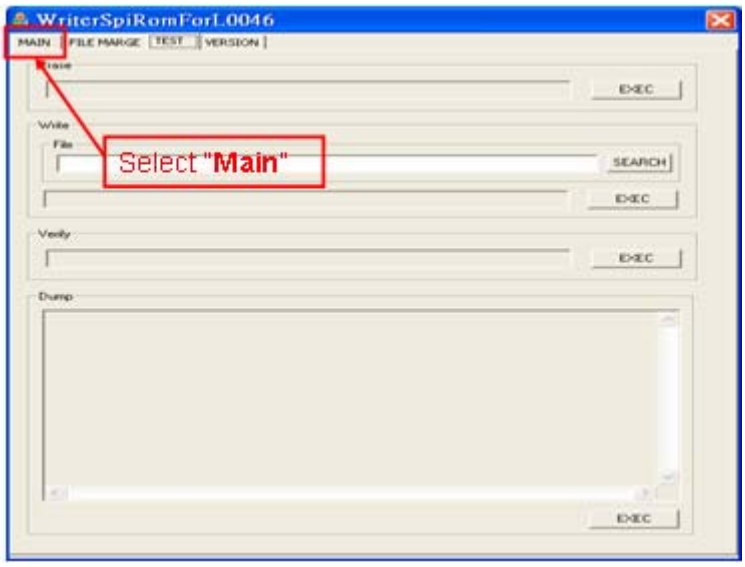
4. Select “**TEST**”.



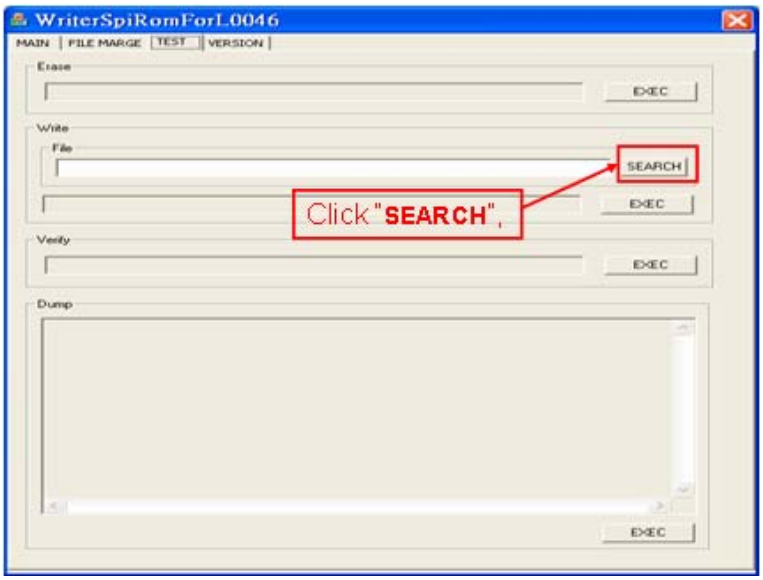
5. Click “**EXEC**” button.



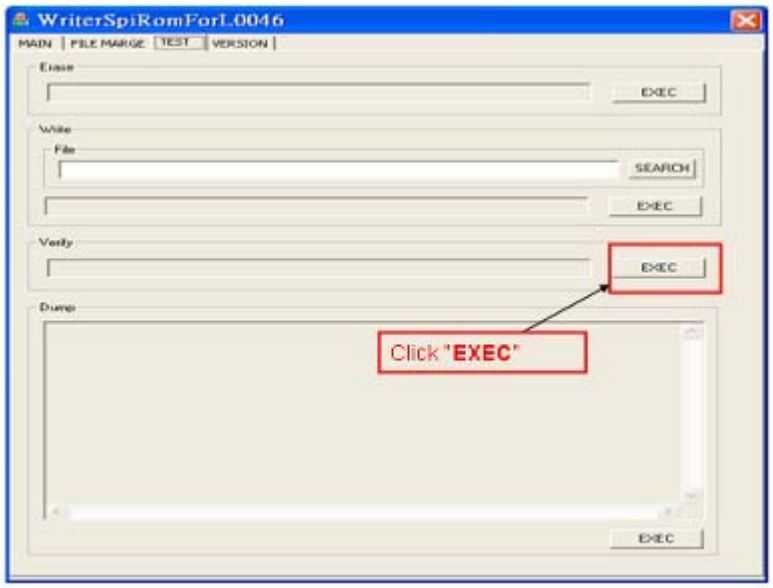
6. Select “**MAIN**”.



7. Click “**SEARCH**” button and select file.

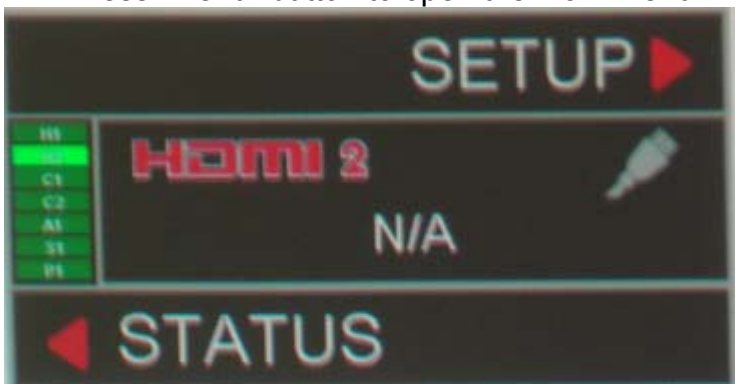


8. Press **EXEC** button to update the Jepico F/W

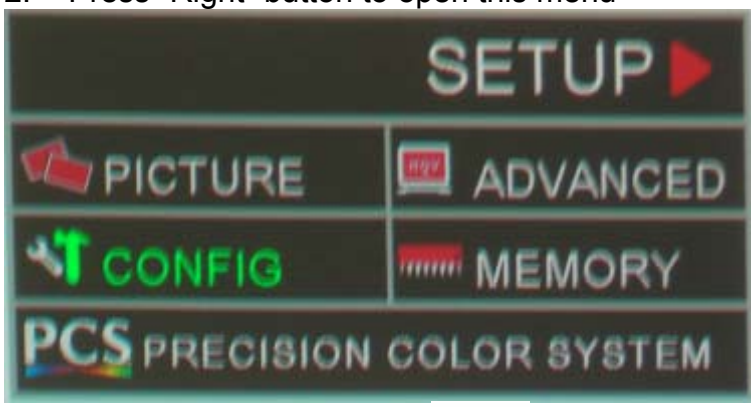


How to reset the lamp hours of Pro8100

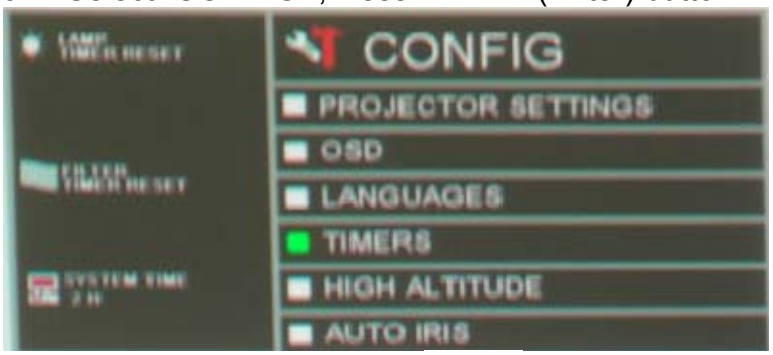
1. Press “Menu” button to open the Main menu



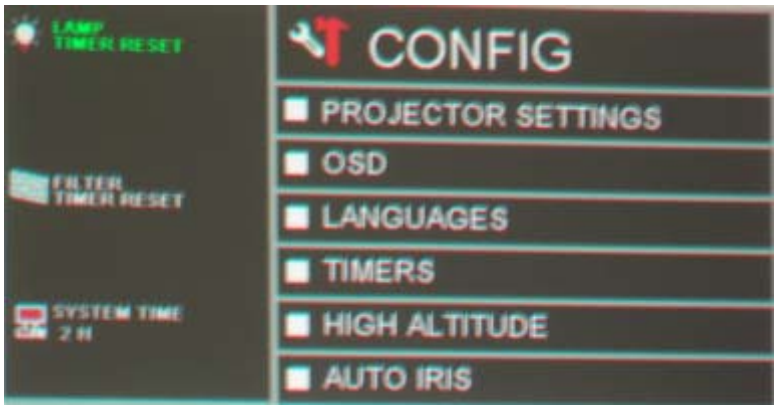
2. Press “Right” button to open this menu



3. Select “CONFIG” ,Press “ ↵ ”(Enter) button.



4. Select “TIMERS” ,Press “ ↵ ”(Enter) button.

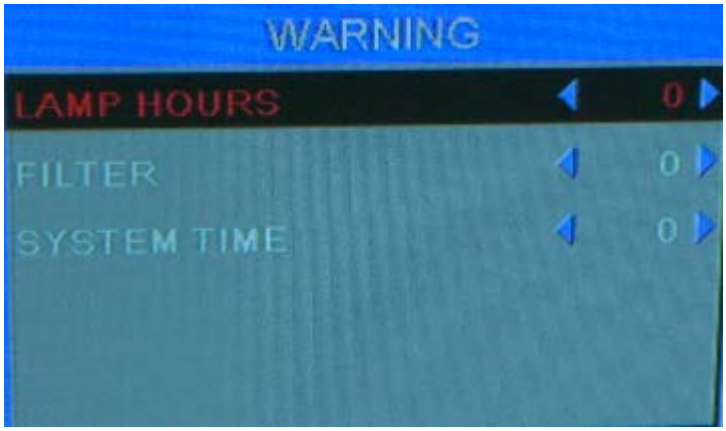


5. Select “LAMP TIMER RESET” ,Press “ ↵ ”(Enter) button.

6. Select “yes”,Press Menu button.
7. Then the lamp hours would be reset to zero.

Service mode

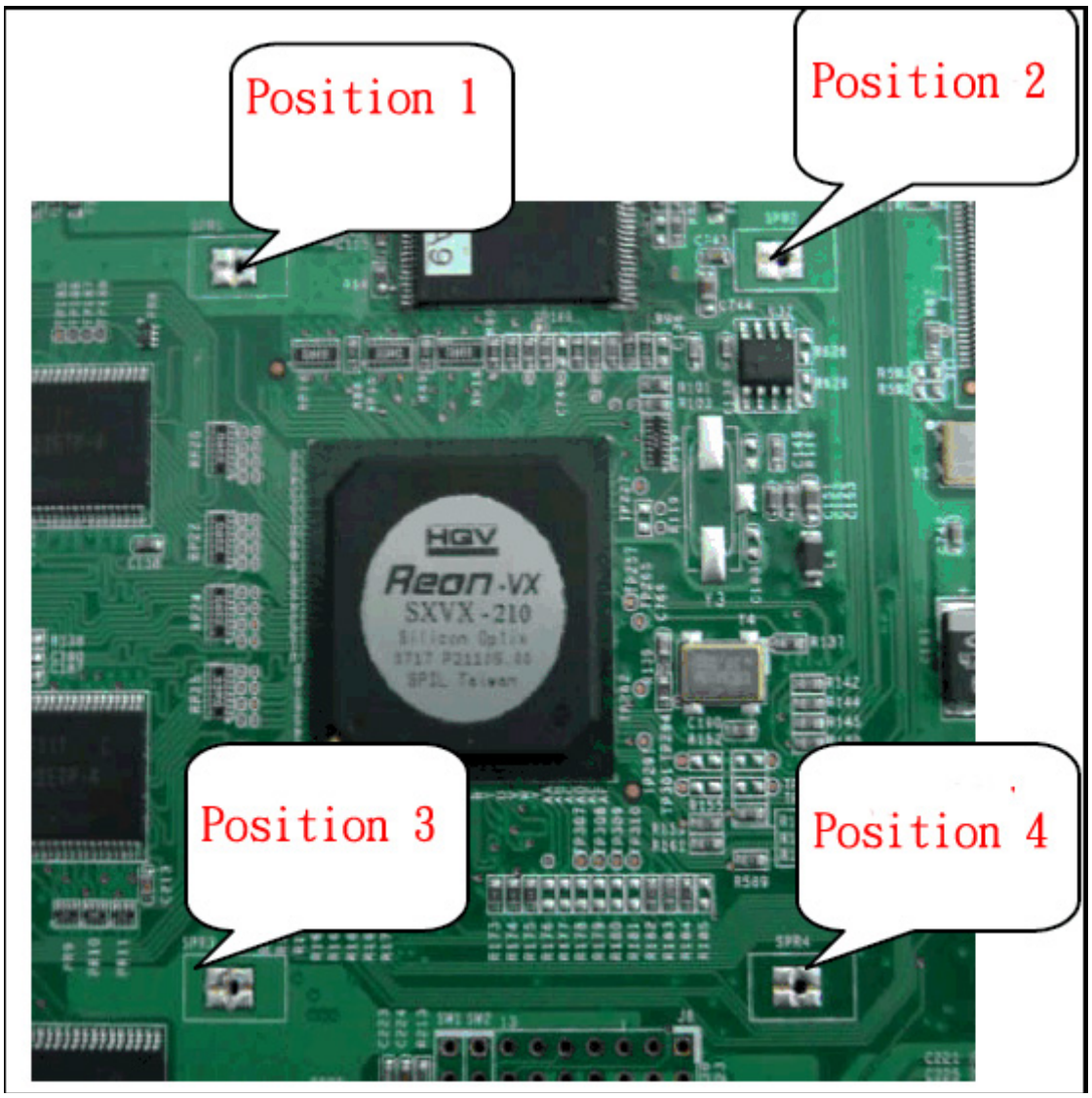
1. Turn on the projector.
2. It can take a minute for the image to achieve full brightness. Press the direction keypad following the actions below: up once, down once, left once, right once; right once; left once, down once, up once(▲▼◄►►◄▼▲), press the **MENU** button.

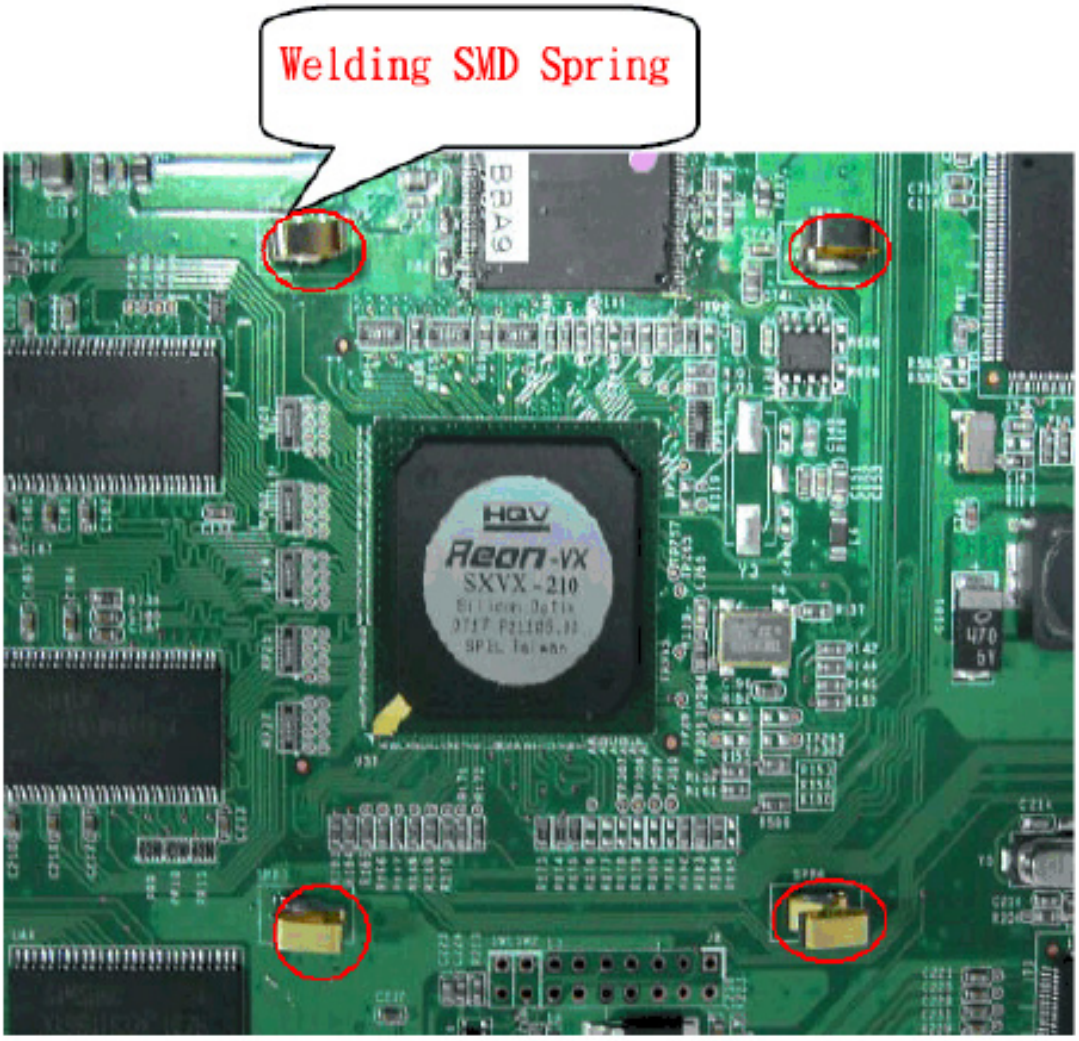


3. Move the color bar to "**Lamp reset**".
4. Press right button.
5. Then the lamp hours would be reset to zero.

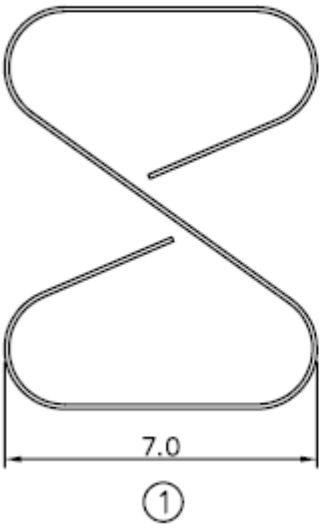
Final solution for “Lock up when first startup the projector”

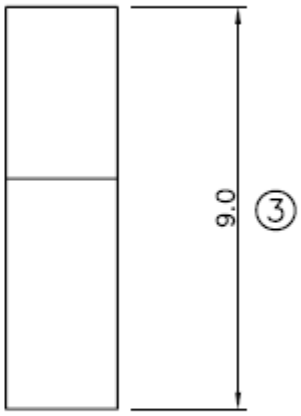
1.If the projector lock up when first startup ,please add four SMD spring(FOXCONN PN:J2349-0040-00) in the main board.

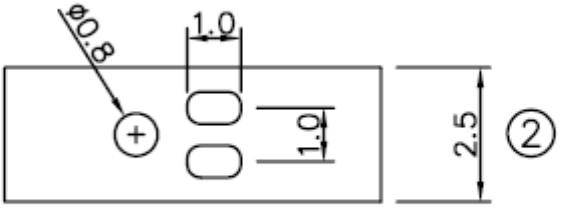


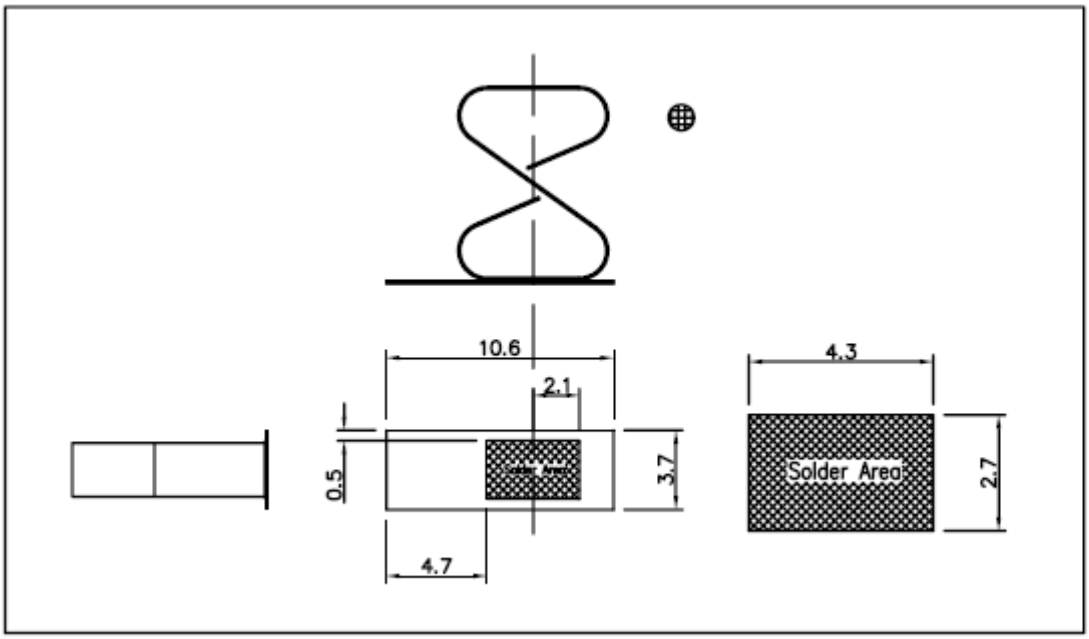


J2349-0040-00 (Model NO:S8-90RCG) Specification for approval

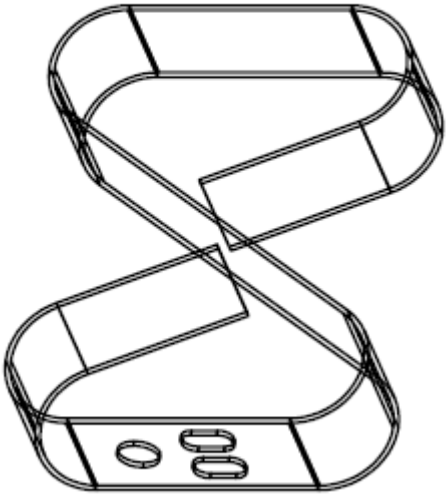








PCB Recommend Layout Pattern



NOTE:

1. Material:Be-Cu **2.**Thickness:0.10mm **3.**Electroplate:Au **4.**Tolerance:+_0.3mm

5.Package:1000pcs/Reel **6.**Height of Application:5.6~8.7mm **7.**Conform:“ROHS”

Machine Disassembly and Replacement

Tools

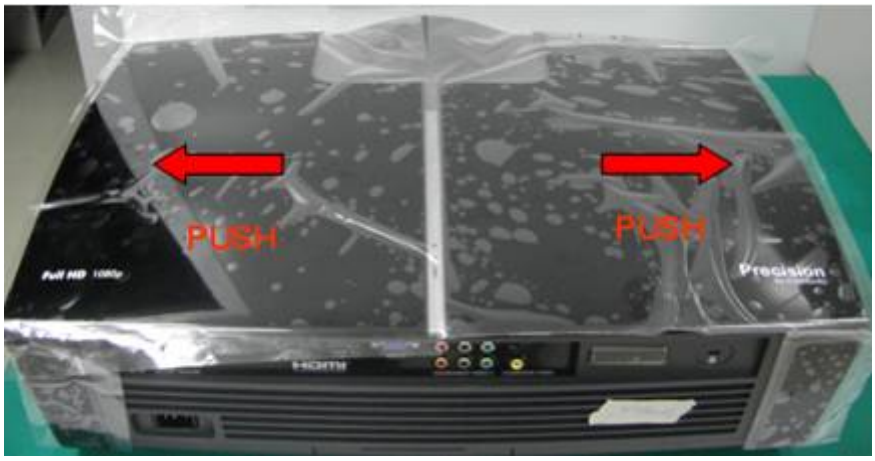
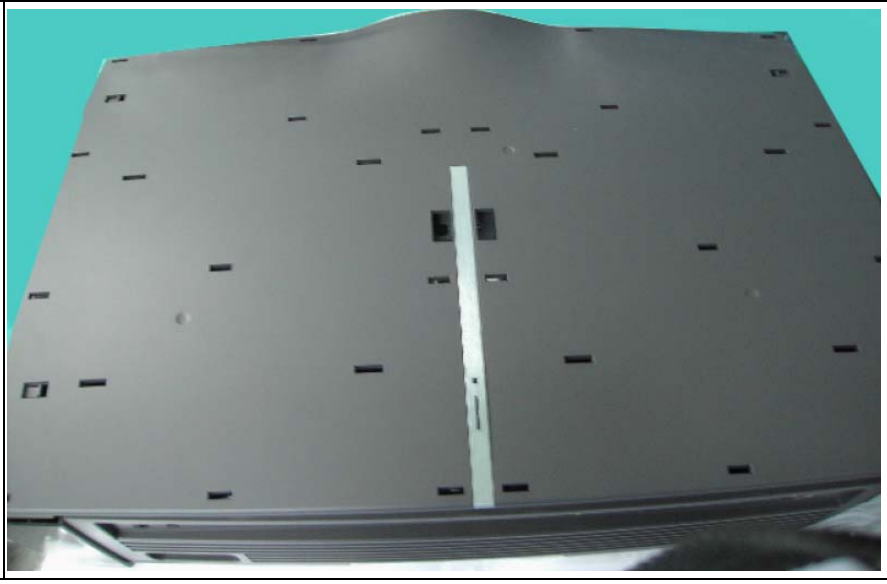
Item	Photo
Long Nose Nipper	
Hex Sleeves 5mm	
Screw Bit(+):107 Screw Bit(+):101 Screw Bit(+):102	
Anti-static wrist strap	
Anti-static wrist gloves	

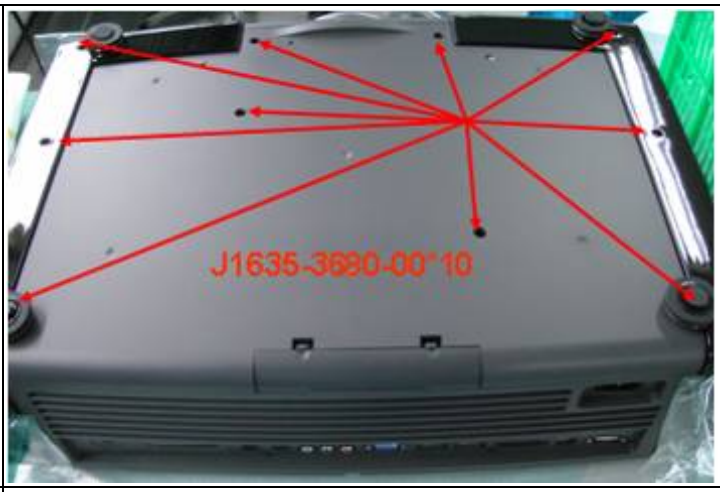
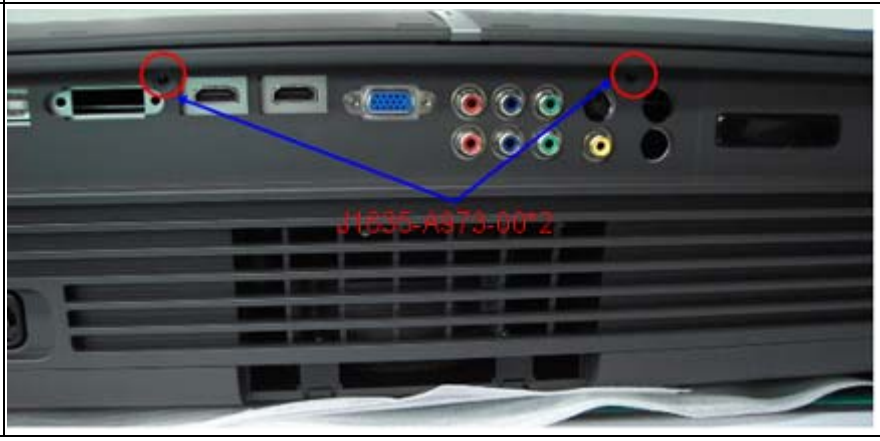
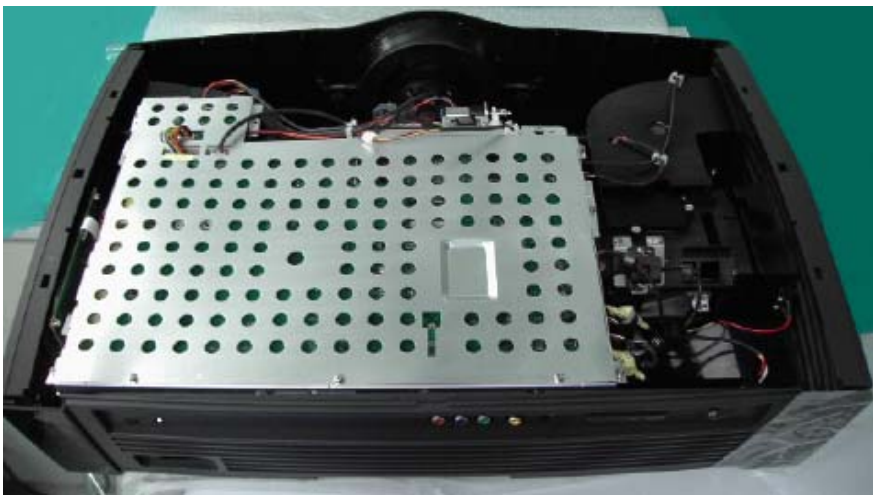
Disassembly Procedure

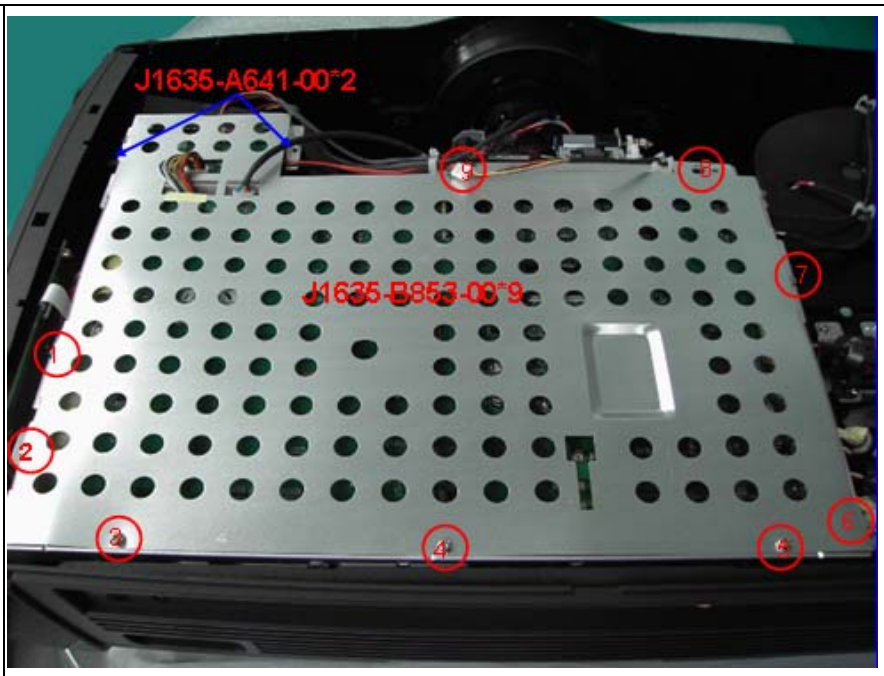
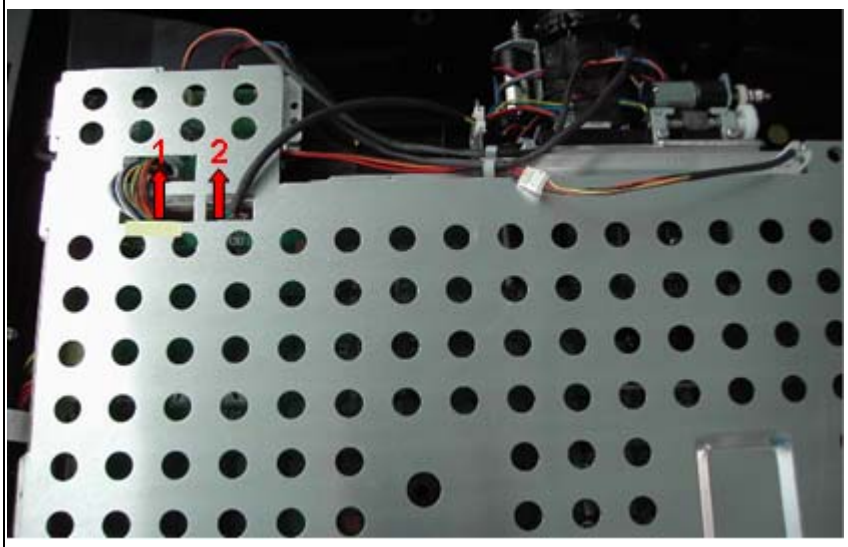
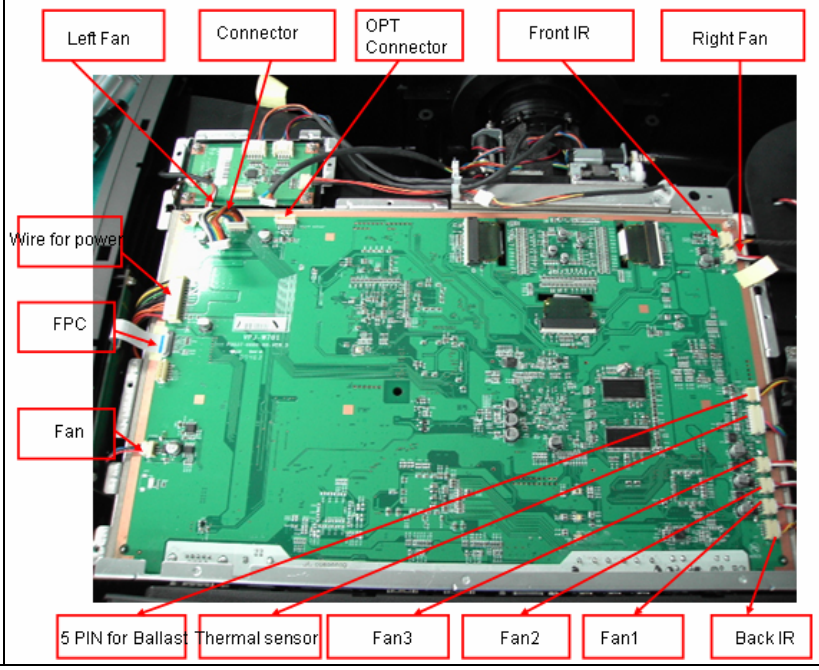
Warning

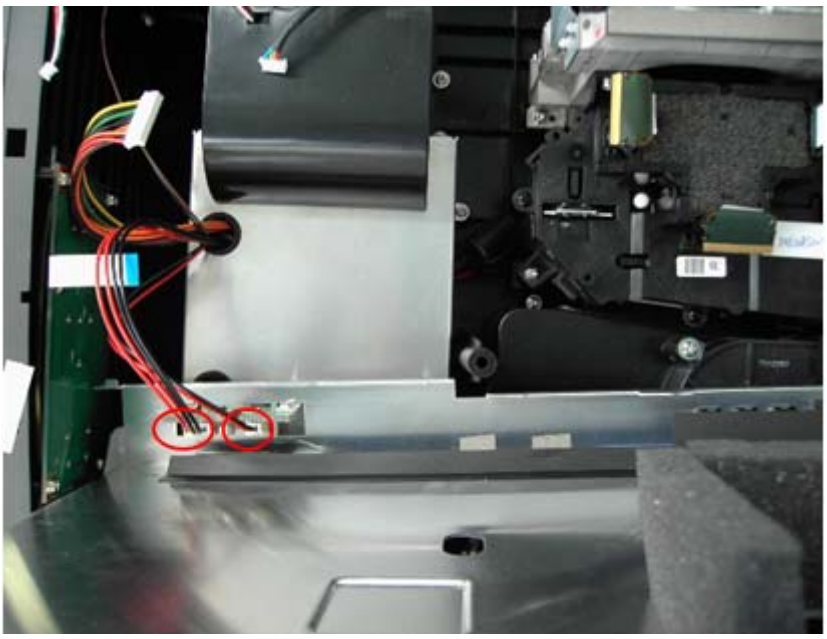
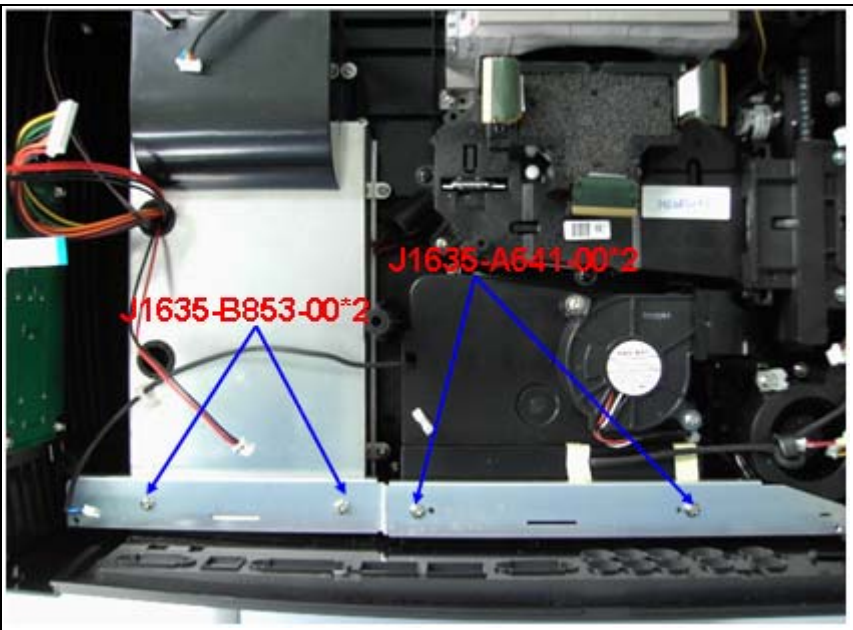
- Put on the Static Electricity Ring when starting for repair.
- Repair Environment suggest in Clean-room class 10000. Do not remove Optical Engine or LCD panel outside the clean room. Please return the optical engine to supplier if your repair condition can not meet the requirement.
- While screwing or unscrewing screws, please keep the screwdriver straight. Keeping screwdriver inclined will damage the screw holes.
- Please turn off the power before replacing any parts.
- Please wait for the projector lamp cooling down and turn off the power before changing it. Never touch or hit the lamp module when replacing the lamp.
- When you replace the projector lamp, never touch the new lamp with your bare hands. The invisible residue left by the oil on your hands may shorten the lamp life. Use lint-free gloves or finger cots are recommended.

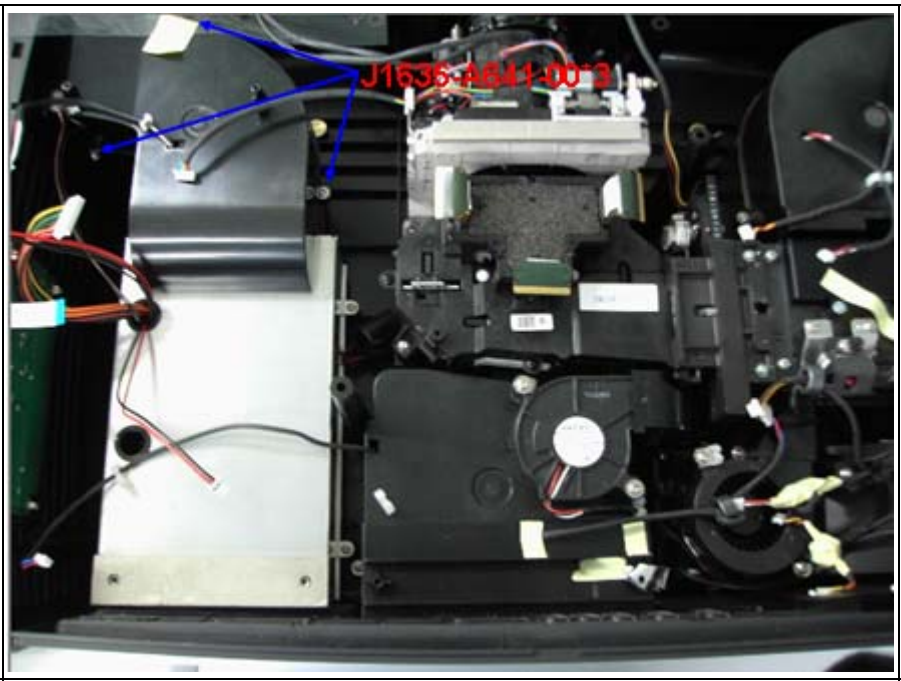
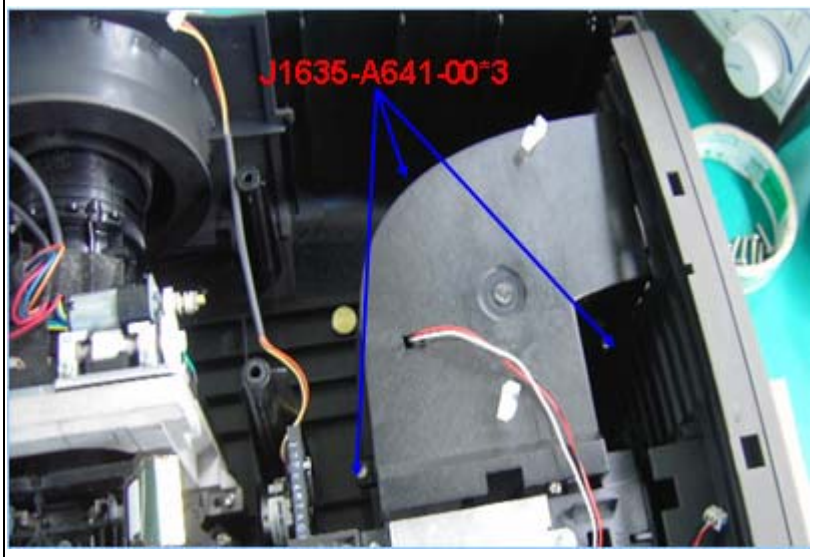
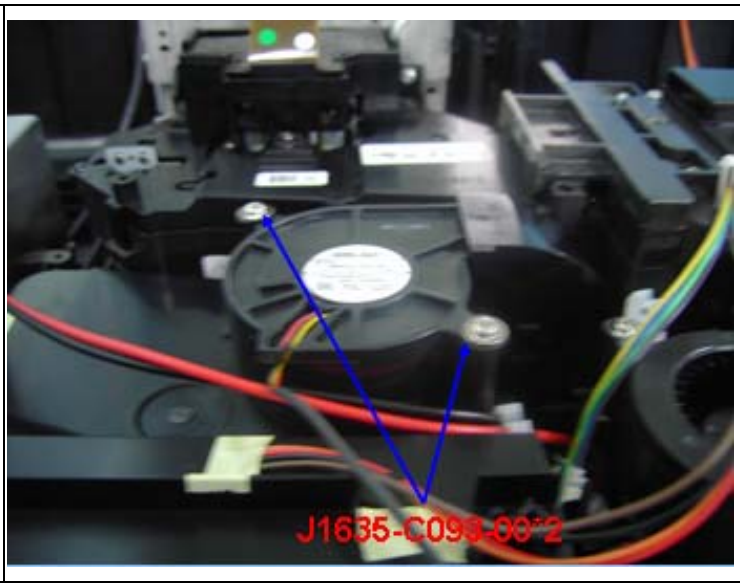
Remove Top cover

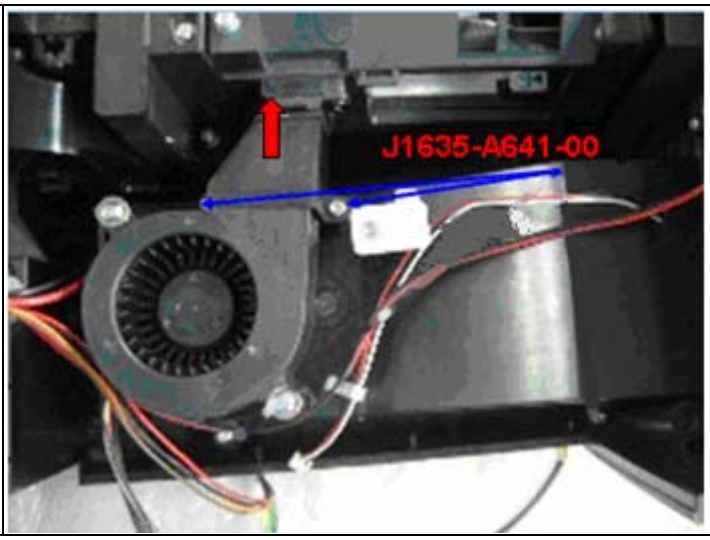
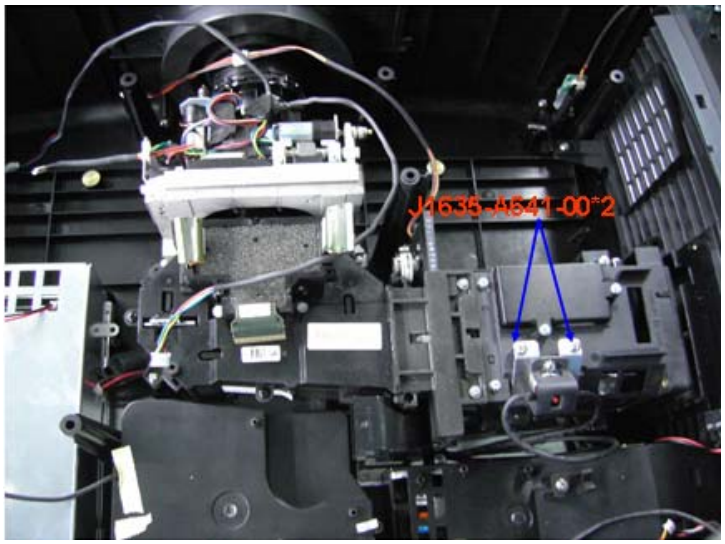
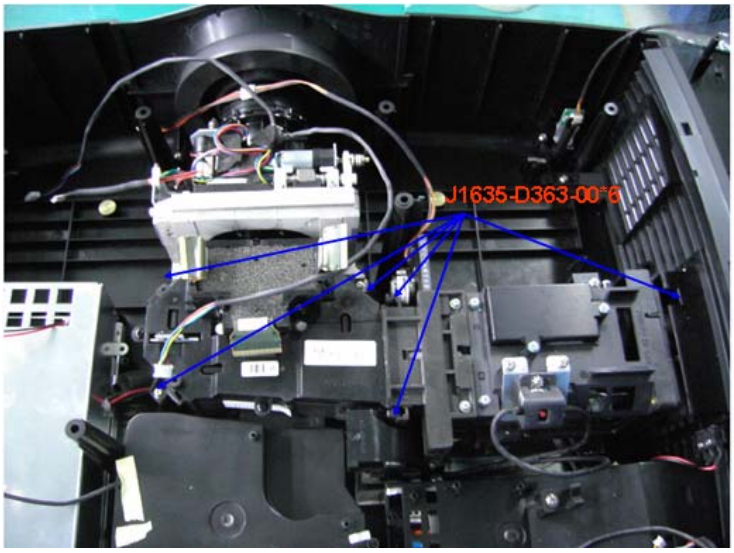
Step	Figure	Description
1		Check item: a.Press the power button to shutdown the projector and disconnect the power cord. b.If the lamp is hot, please do not start any procedure until the projector lamp cools down. 1. Push the changeable top cover in accordance with the direction of the identification of arrow point, remove the changeable top cover
2		1. Appear this

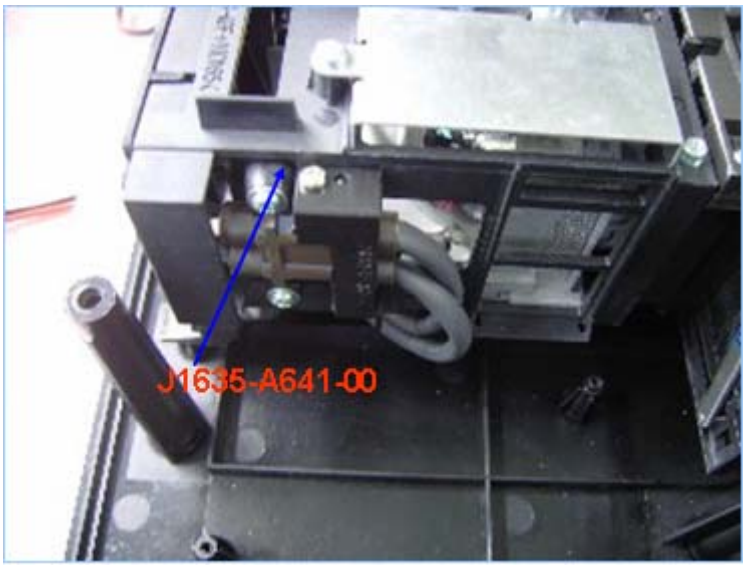
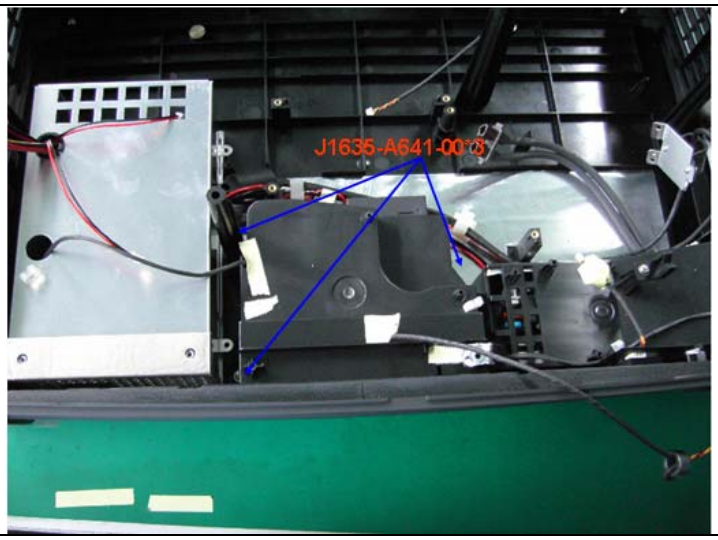
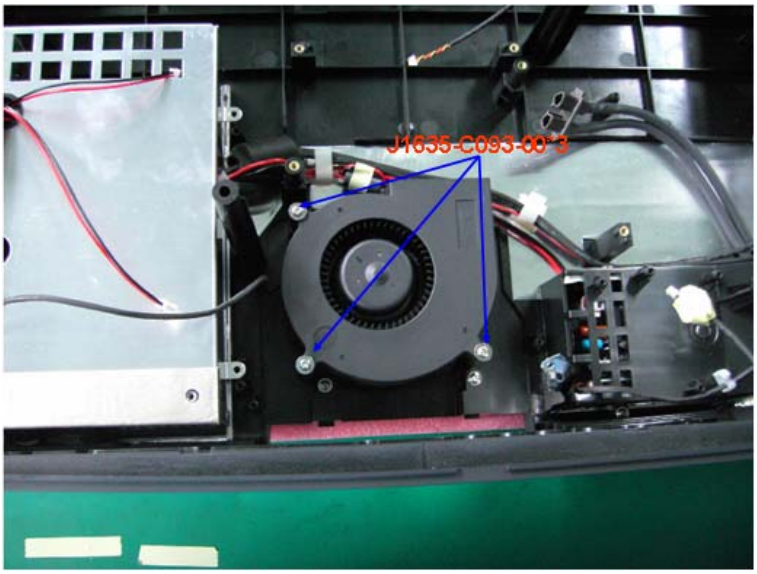
3		Turn the projector over by pulling the latches upwardRemove the screws J1635-3680-00*10.
4		1.Remove the screws J1635-A973-00*2 on the back cover
Remove EMI Metal Plate		
5		1.Remove the top cover.

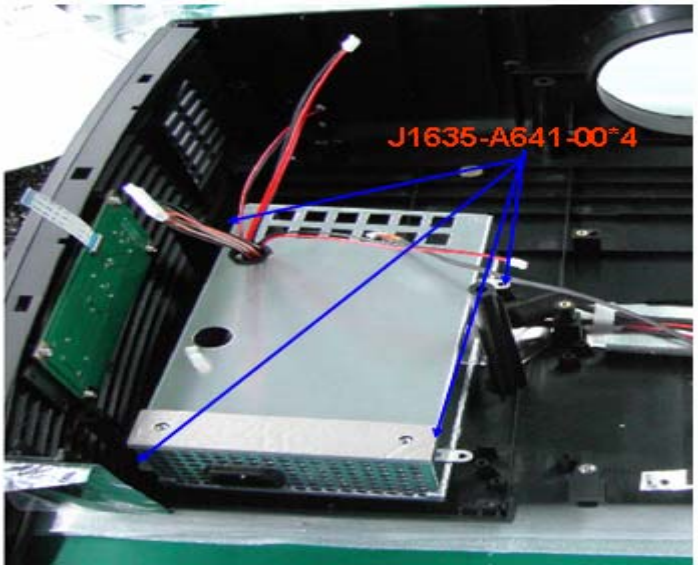
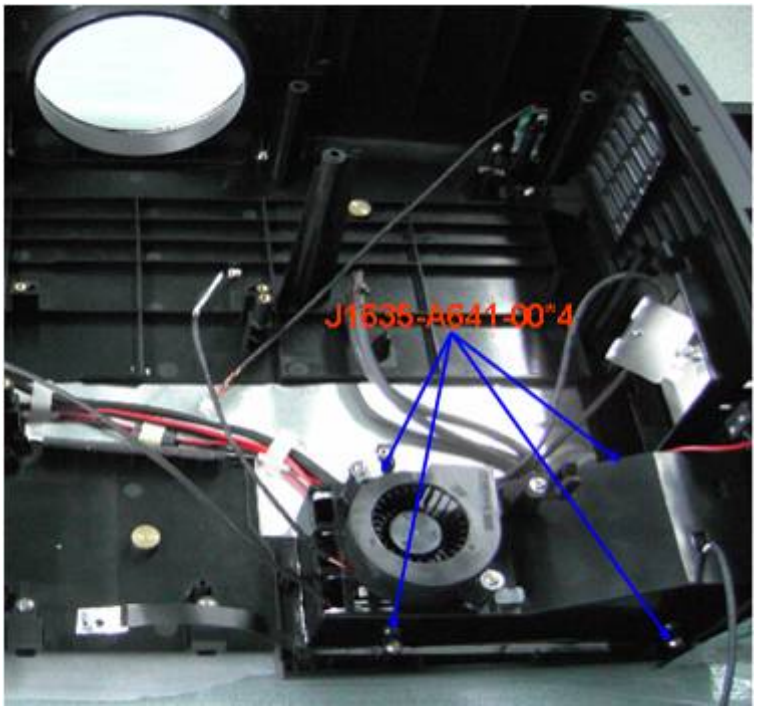
6		1. Remove the screws J1635-A641-00*2 and J1635-B853-00*9. 2. Remove the EMI real metal .
7		Note: Before removed the EMI real metal,you shoule be disconnected wires of mainboard module.
8		1.Show you what the connector should be. 2.Remove all the wires

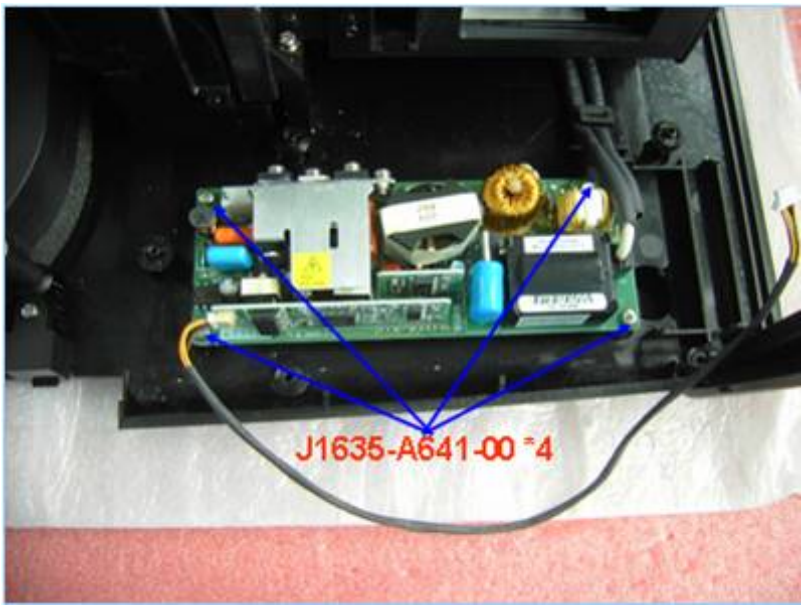
Remove Main Board		
9		Remove the screws J1635-B853-00*2 .
10		Remove the mainboard module. NOTE:2 wires still have connection under mainboard. Disconnect these two wires before remove mainboard
Remove FAN Housing(fan5,fan6)		
11		1. Remove the screws J1635-B853-00*2 and J1635-A641-00*2. 2. Remove the sheet link

12		1. Remove the screws J1635-A641-00*3 and then the left fan housing.
13		2. 1.Remove the screws J1635-A641-00*3 and then the righ fan housing.
Remove FAN2		
14		Remove the screws J1635-C093-00*2 and then remove fan2

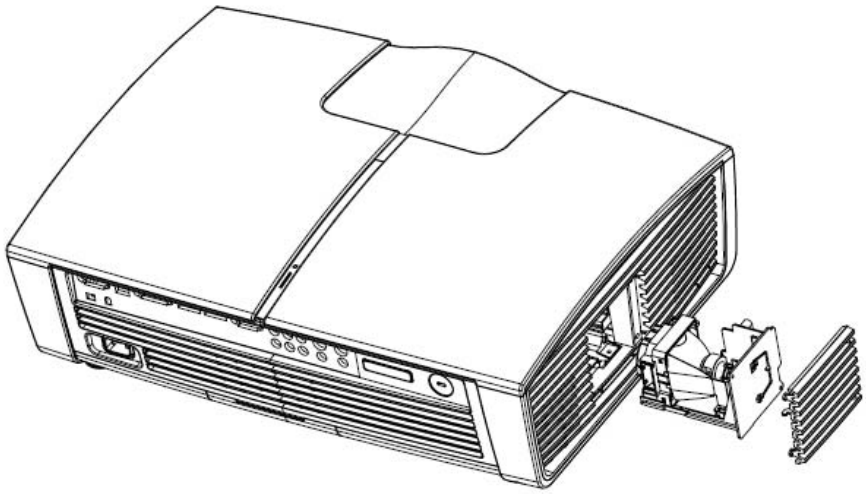
15		Loosen the screws J1635-A641-00*2 to remove ballast hoursing
Remove Optical Engine		
16		Remove the screws J1635-A641-00*2 and then Remove the thermal sensor on the Optical engine.
17		Remove the screws J1635-D363-00*6

18		Loosen the screws J1635-A641-00*1 to remove the Optical engine.
Remove FAN1		
19		Loosen the screws J1635-A641-00*3 to remove fan cover as shown.
20		Loosen the screws J1635-C093-00*3 to remove the FAN1.

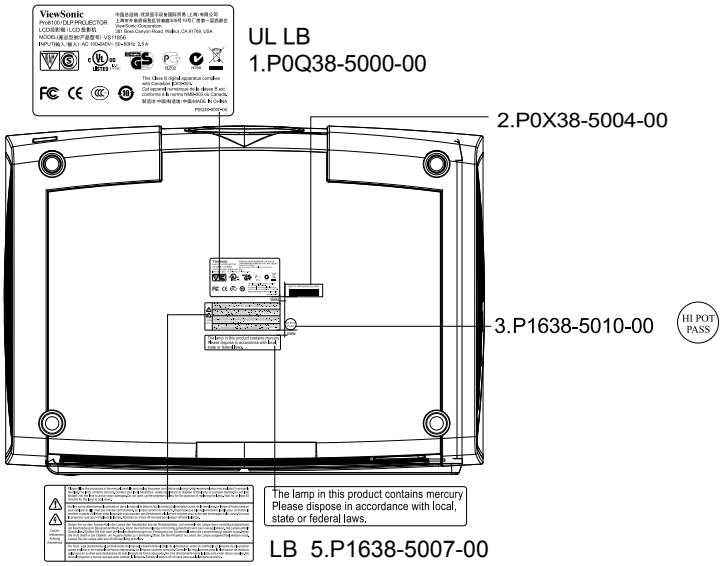
Remove Power board module		
21		.Loosen screws J1635-A641-00*4 and remove the power board module from bottom cover
Remove ballast		
22		.Loosen screws J1635-A641-00*4 and remove the ballast cover.

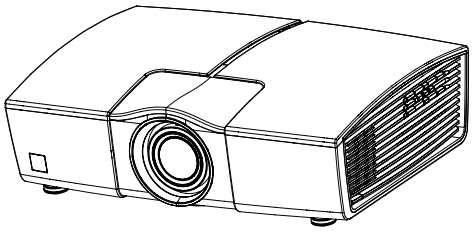
23		.Loosen screws J1635-A641-00*4 and remove the ballast from bottom cover

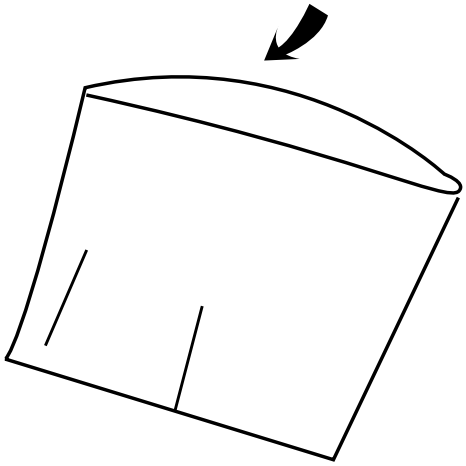
Disassembly Lamp Module

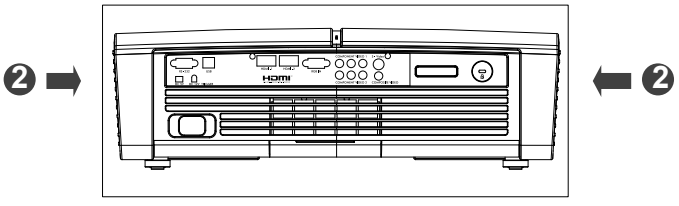
Step	Figure	Description
1		● Loosen the two screws of lamp cover. ● Remove the lamp cover. ● Loosen the two screws of lamp module. ● Pull out the old lamp module by lamp handle. ● Mount the new lamp. ● Replace the lamp cover. ● Reset the lamp timer.

Packing drawing

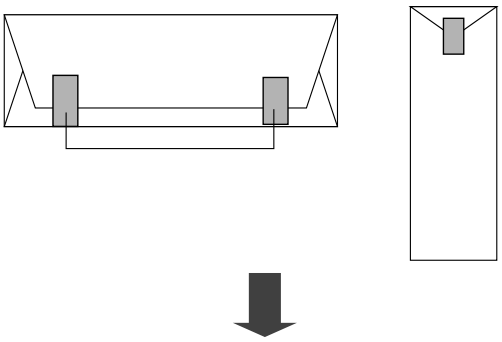


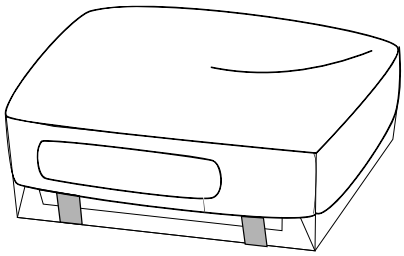


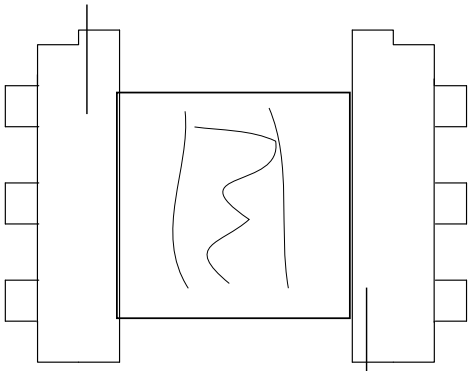


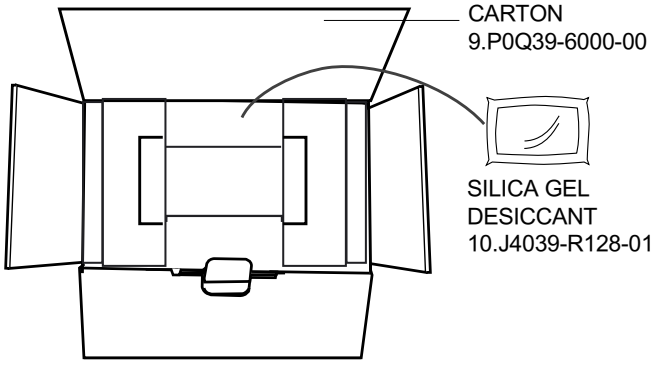


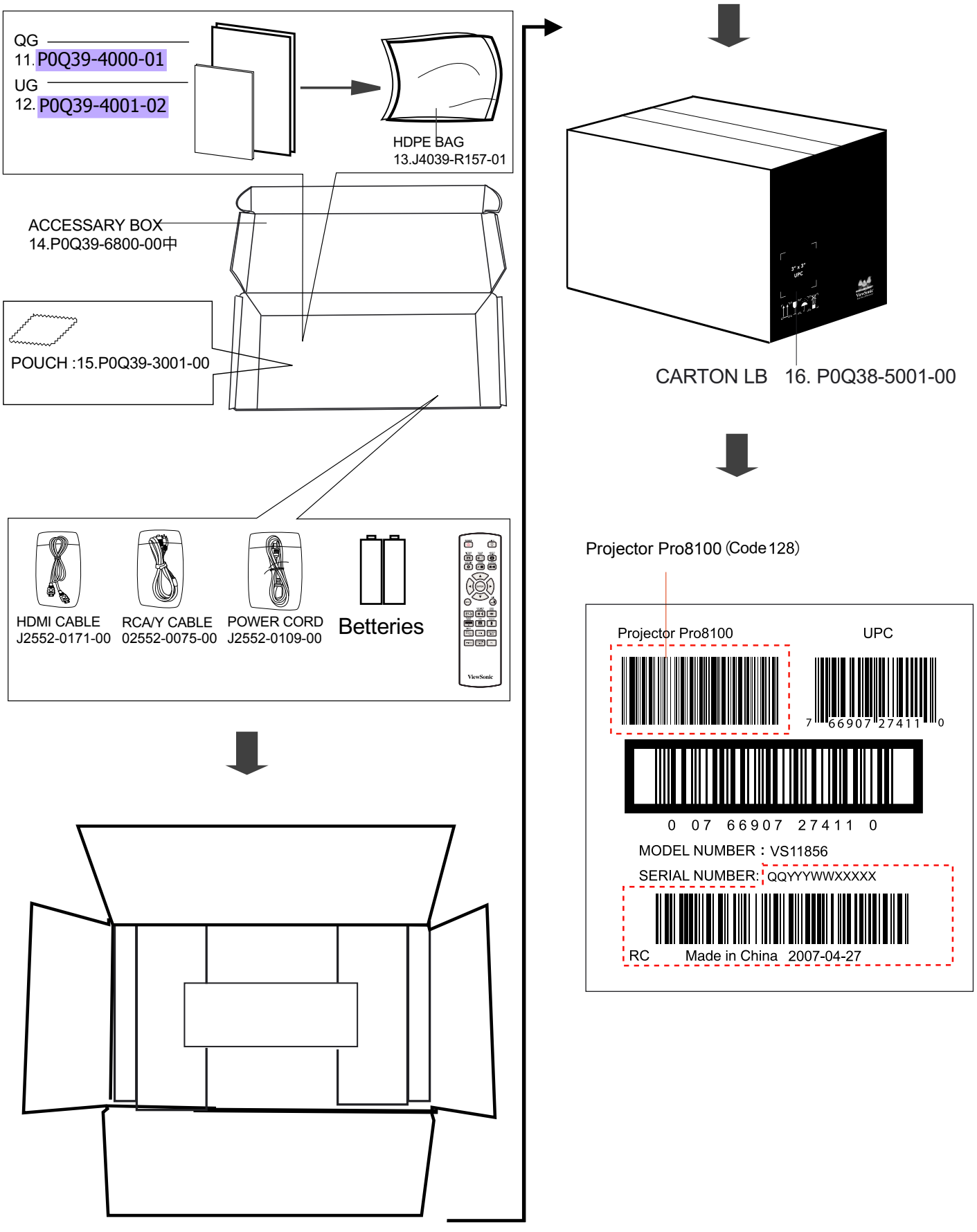
請按照以上折疊順序以此折好










QG
11. P0Q39-4000-01
UG
12. P0Q39-4001-02
HDPE BAG
13.J4039-R157-01
ACCESSARY BOX
14.P0Q39-6800-00中
POUCH :15.P0Q39-3001-00
CARTON LB 16. P0Q38-5001-00
HDMI CABLE
J2552-0171-00
RCA/Y CABLE
02552-0075-00
POWER CORD
J2552-0109-00
Betteries
Projector Pro8100 (Code 128)
Projector Pro8100
UPC
7 66907 27411 0
0 07 66907 27411 0
MODEL NUMBER : VS11856
SERIAL NUMBER: QQYYYWWXXXXX
RC Made in China 2007-04-27

PACKING PART LIST (PRO8100)

ViewSonic Model Number: VS11856

Rev: 1a

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	N/A	P0Q38-5000-00	UL LB	1
2	DC-00008691	P0X38-5004-00	LB	1
3	DC-00008692	P1638-5010-00	LB FOR HI POT PASS	1
4	DC-00008696	P2838-5001-00	Warning lb	1
5	DC-00008697	P1638-5007-00	LB	1
6	N/A	P0Q39-3000-00	POUCH	1
7	P-00008893	P0Q39-1500-00	EPE(LEFT)	1
8	P-00008894	P0Q39-1510-00	EPE(RIGHT)	1
9	P-00008891	P0Q39-6000-00	CARTON	1
10	N/A	J4039-R128-00	SILICA GEL DESICCANT	1
11	DC-00008779	P0Q39-4000-00	QG	1
12	N/A	P0Q39-4001-00	CD	1
13	P-00008410	J4039-R157-01	HDPE BAG	1
14	N/A	P0Q38-6800-00	ACCESSARY BOX	1
15	N/A	P0Q39-3001-00	POUCH	1
16	P-00008895	P0Q38-5001-00	CARTON LB	1

5. Troubleshooting Flow Chart

This chapter provides technicians with electronic background how to maintain the product. Moreover, you can get the appropriate operation to solve some complicated problems of component repairing and professional problems.

Troubleshooting

Warning

- Do not directly look into the lens to avoid eyesight damages.
- The projector is equipped with ventilation holes (intake) and ventilation holes (exhaust). Do not block or place anything near these slots, or internal heat build-up may occur, causing picture degradation or damage to the projector.

Confirm Software and hardware

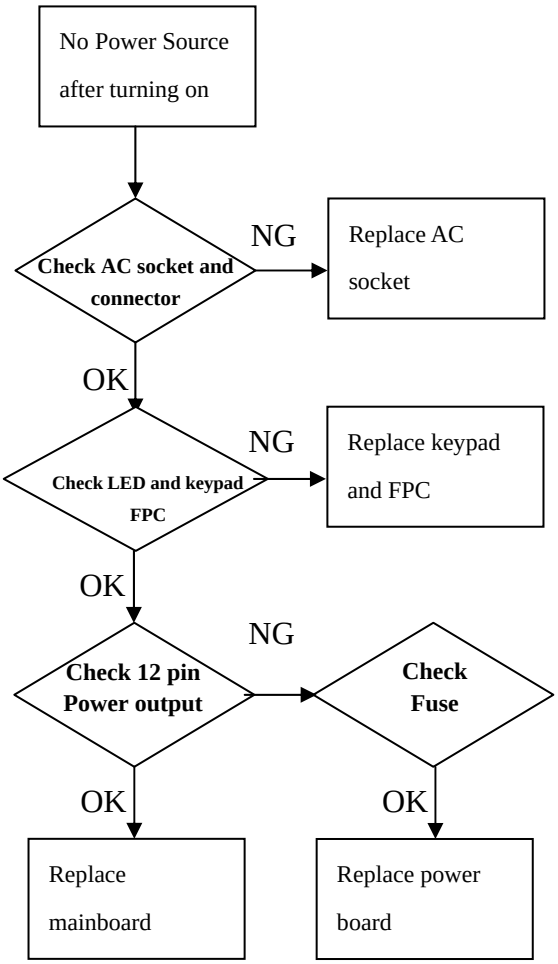
(1) Confirm FW version and lamp using hours

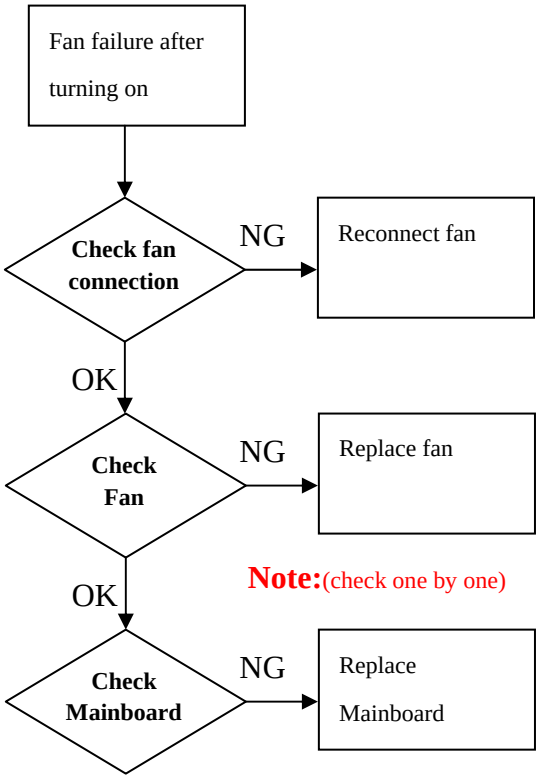
(2) Confirm LED indicator

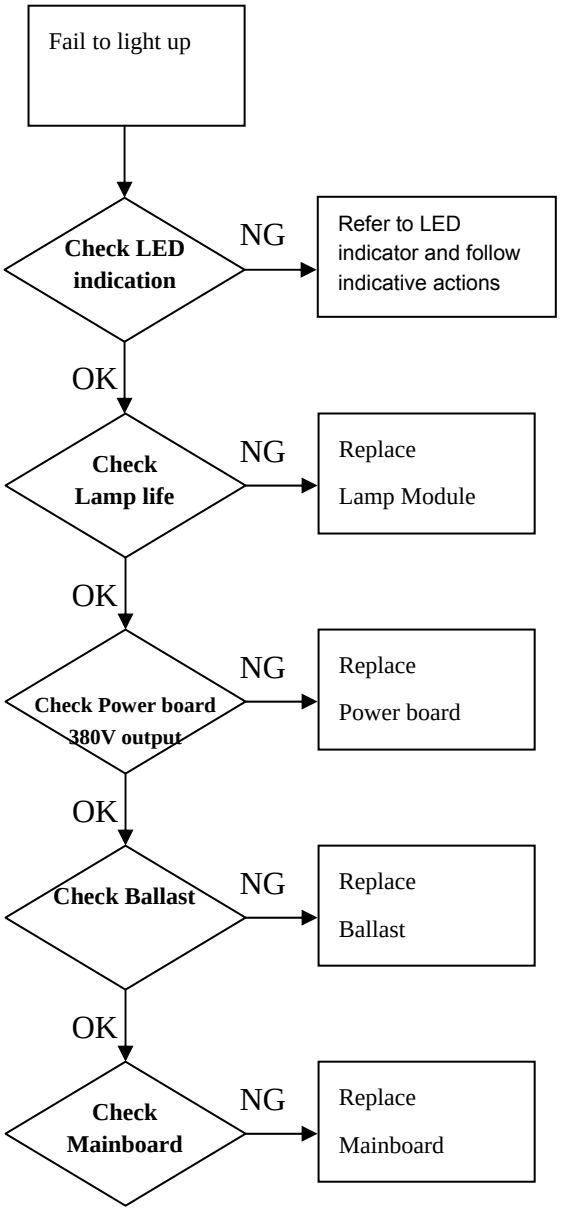
Panel Hardware Controls			
Panel LED	Power LED	Status LED	Indicates
	Blinking in Green	Off	Standby mode
	Green	Green	Warming up
	Green	Off	Projector ON.
	Green	Blinking in Green	Cooling down
	Orange	Green	In-proper shutdown due to power cut off.
	Orange	Off	A certain error has been detected.
	Orange	Red	Over temp.
	Orange	Blinking in Red	Lamp error.
	Orange	Blinking in Orange	Fan error.
	Green	Blinking in Orange	It is time to clean the Air filter.
	Green	Blinking in Red	Projector overcooled

(3) Confirm cable connection well.

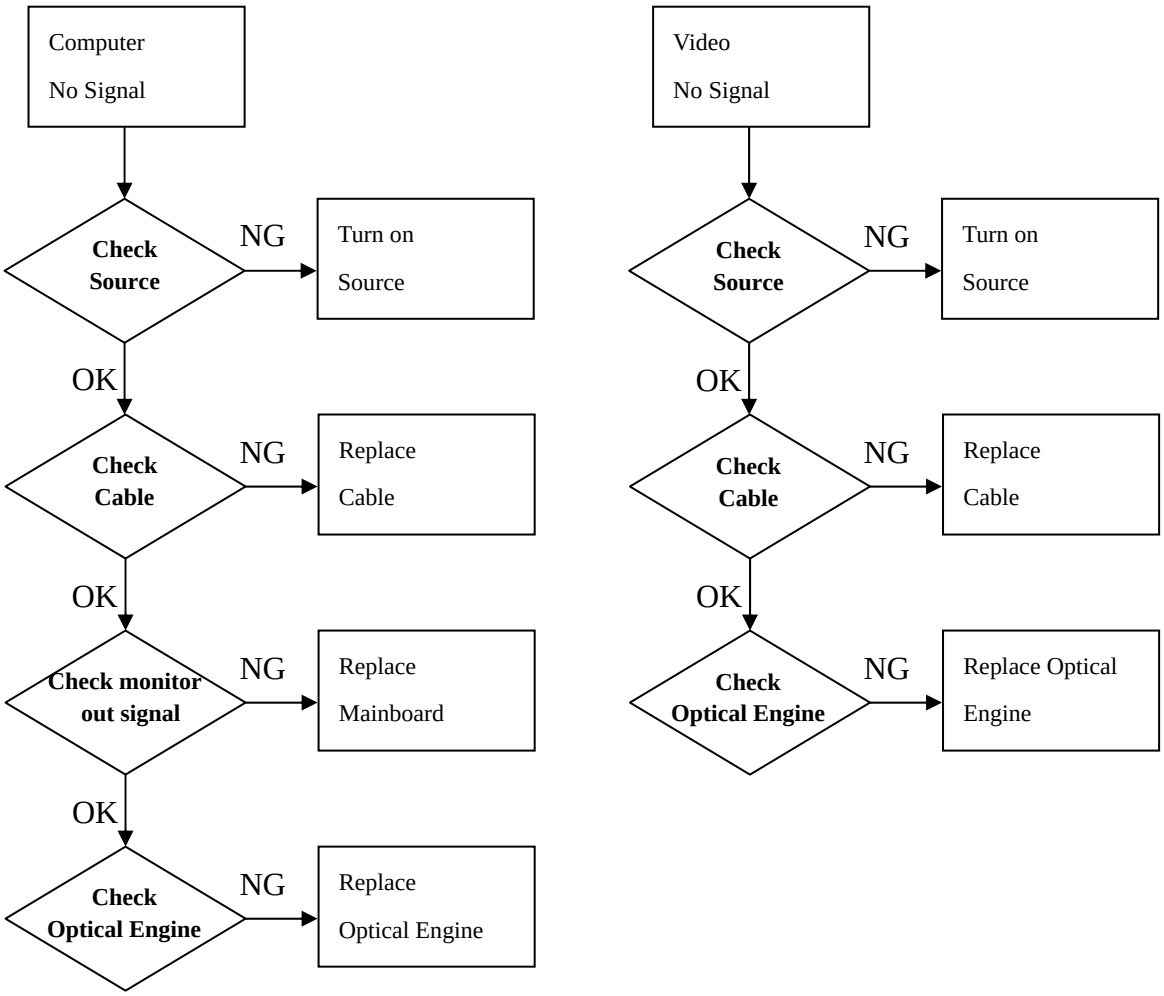
Power Source Troubleshooting:






Fail to light up
Check LED indication
NG
Refer to LED indicator and follow indicative actions
OK
Check Lamp life
NG
Replace Lamp Module
OK
Check Power board 380V output
NG
Replace Power board
OK
Check Ballast
NG
Replace Ballast
OK
Check Mainboard
NG
Replace Mainboard

Video Signal Troubleshooting



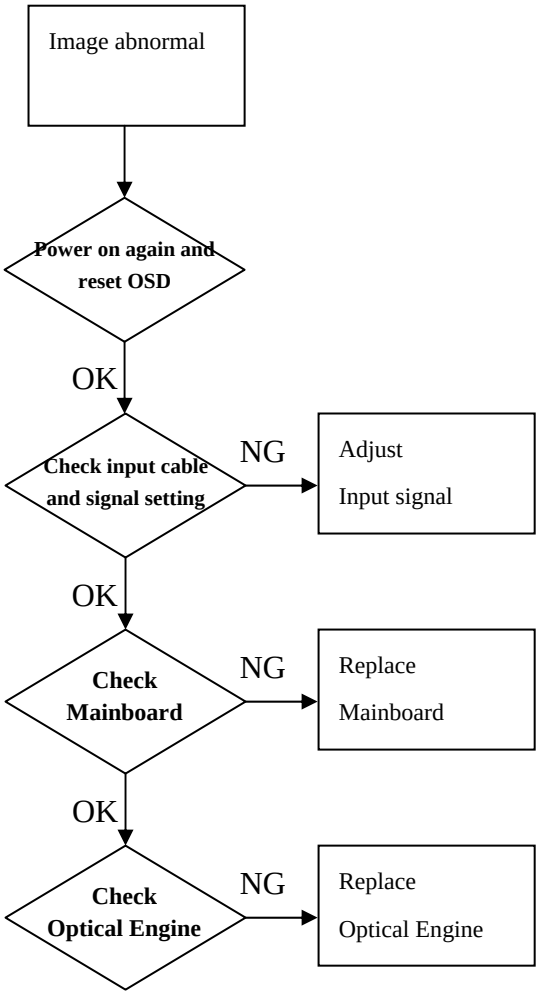
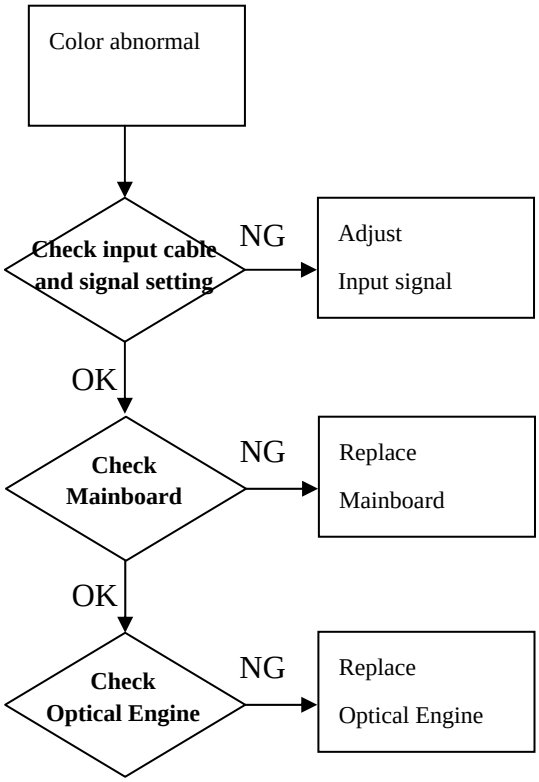
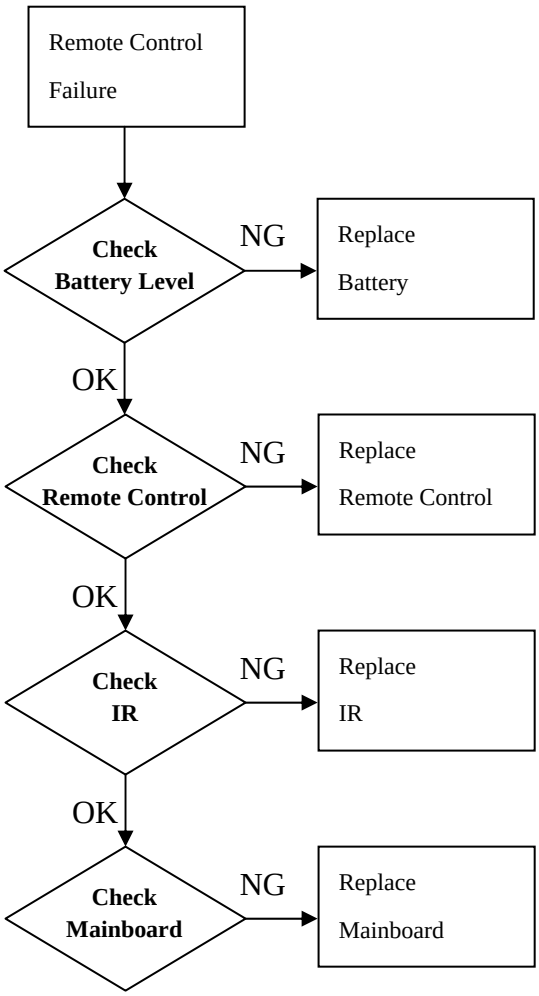
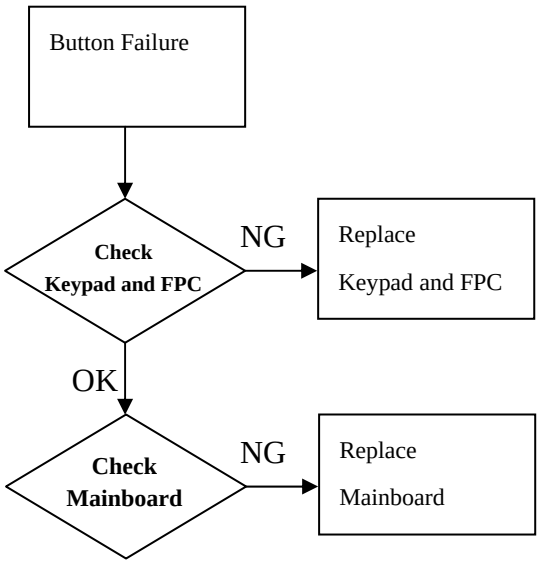


Image abnormal
Power on again and reset OSD
OK
Check input cable and signal setting
NG
Adjust
Input signal
OK
Check Mainboard
NG
Replace
Mainboard
OK
Check Optical Engine
NG
Replace
Optical Engine


Color abnormal
Check input cable and signal setting
NG
Adjust
Input signal
OK
Check Mainboard
NG
Replace
Mainboard
OK
Check Optical Engine
NG
Replace
Optical Engine

Operation Function Troubleshooting





Verifying the Repair

After repairing projector (Dissembling and assembling projector), Repair center should verify the quality of repaired unit.

(1) Signal test (Each I/O can function normally)

Connect all connector to the jacks one after the other to check whether each channel can project normally

I/O port	Monitor In
Test Equipment	Standard Pattern generator (Ex. Quantum data)
Signal format	1920*1080 60Hz

I/O port	Video
Test Equipment	Standard Pattern generator (Ex. Quantum data) or DVD player
Signal format	NTSC

I/O port	S-Video
Test Equipment	Standard Pattern generator or DVD player
Signal format	480i

I/O port	USB
Test Equipment	PC and Remote controller
Test method	Connect PC (laptop) VGA output to projector. Set PC (laptop) output signal to projector Connect projector USB to PC. Press remote controller page up/down to scroll presentation file up and down (ex Microsoft office series)

I/O port	HDMI
Test Equipment	Standard Pattern generator or DVD player
Signal format	1080i/p, 720p,

(2) Operation test

Buttons operation

Button description	Test criteria
Power button	1. Mechanical motion (Up & Down) should be free from getting stuck when pressing the button 2. Press “power” button and projector will switch on
Enter	1. Mechanical motion (Up & Down) should be free from getting stuck when pressing the button. 2. Press Enter button can To confirm selected menu item.
4-way button	1. Mechanical motion (Up & Down) should be free from getting stuck when pressing the 4-way button. 2.Use four directional buttons to select items or make adjustments to your selections.
Source	Manually selects an input source.
Lens Shift	Motorized vertical and horizontal lens shift for positioning display image without physically moving the unit.
Menu/Exit	Opens and Exits the on-screen menu

Foot adjuster operation

Foot adjuster.	Test criteria
Foot adjuster button	Foot adjusters should stretch downward smoothly by pressing the foot adjuster buttons on the two sides

Zoom ring and Focus ring

Ring	Test criteria
Zoom ring	Mechanical motion (Up & Down) should be free from getting stuck when pressing the button. Press “Zoom” button should be free from getting stuck.
Focus ring	Mechanical motion (Up & Down) should be free from getting stuck when pressing the button. Press “focus” button should free from seizing.

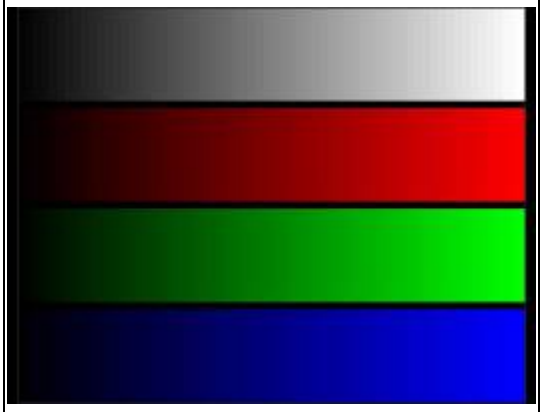
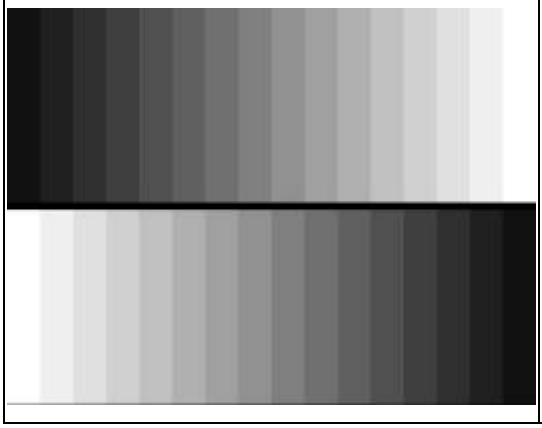
(3) Image Quality

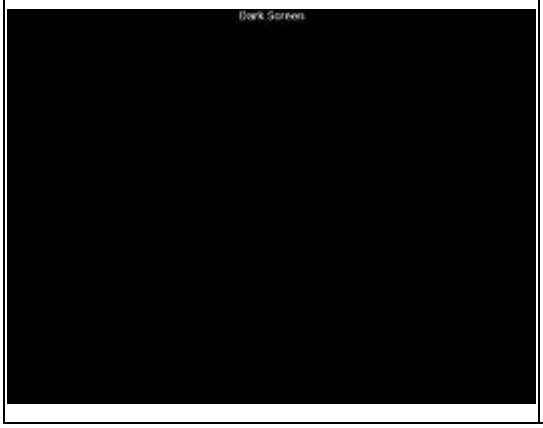
Projected image size: 60 inches (diagonal length)

Zoom ring: Adjust zoom ring to wide (Maximum projection size)

VGA

I/O port	Monitor In (WXGA)
Test Equipment	Standard Pattern generator (Ex. Quantum data)
Signal format	1920*1080 60Hz
Projected image size	60” in diagonal length

Test Pattern	Test criteria
	Full white Apparent color strip, bend and streak corner on the projected image are not allowable
	**256 level RGB** --256 level of RGB color should be distinguishable, at least Red color scales should be. -- For each RGB 256 levels, Noise or color deviation in R, G, and B single level respectively are acceptable.
	**16 gray level** --16 level of gray level color should be distinguishable --When Gamma selected to “RGB” Not distinguishable of 2 brightest levels /2 darkest levels are acceptable.

	Gray 10 Blemish, stain are not allowable on the projected screen
	**Full darkness** Light leak in the non-effective area. Should be less than 0.7 lux(<0.7lux)

S-Video

I/O port	S-Video
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player
Signal format	480i
Criteria	No apparent color deviation on the projected image

Video

I/O port	Video
Test Equipment	Standard Pattern generator (Ex. Quantum data)&DVD player
Criteria	No apparent color deviation on the projected image

(4) Resolution

I/O port	1960*1280
Test Equipment	PC
Test Method	1. Rotate Zoom ring to wide mode (Maximum projected image) 2. Fix projector to set diagonal length of projected image to 60”. 3. Adjust focus ring to make resolution of 4 corners and center are balanced. 4. Check he characters should be recognized easily. 5. Rotate Zoom ring to tele mode (Minimum projected image) 6. Adjust focus ring to make resolution of 4 corners and center are balanced. 7. Check the characters should be recognized easily.

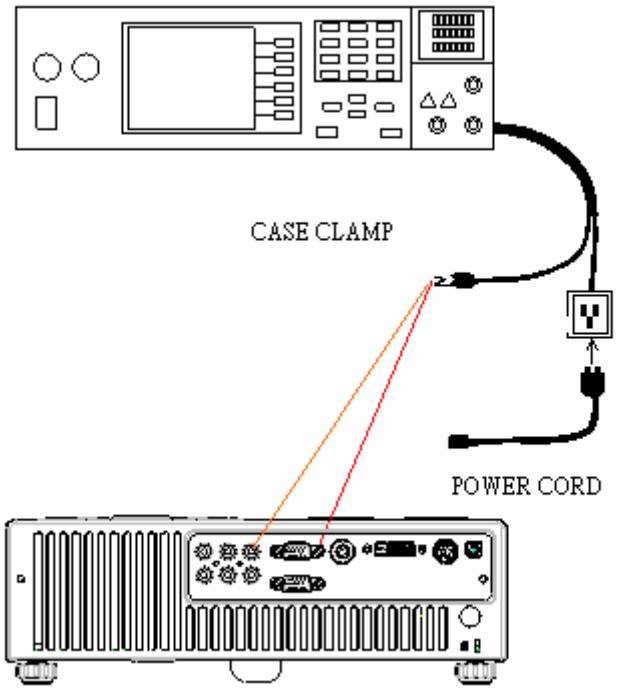
(5) Front and Rear infrared sensor

Device	Front and Rear infrared
Test Equipment	Remote controller
Test method	1. Cover front sensor and operate remote controller to test rear sensor 2. Cover rear sensor and operate remote controller to test front sensor

(6) Brightness measurements

Test items	Brightness measurements
Test Equipment	Chroma automatic system (The alternative is CL-200)
Test method	Measure 9 points
Criteria	Marketing spec 20% off

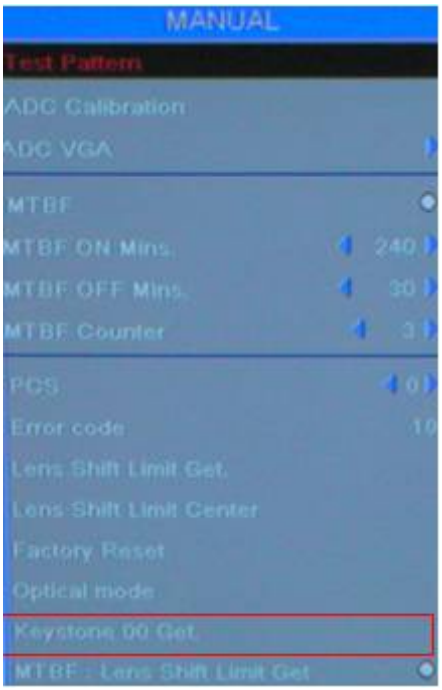
(7) Safety test equipments

Test items	Safety test
Test Equipment	Safety analyzer
Test method	1. Clamp the metal shell of VGA connector 2. Plug the power cord to socket 
Test criteria	GND 30A 3sec 100mΩ DCW 2506V 1sec 250uA Single Step OFF

(8) Cosmetic standard for repaired projector

Follow cosmetic standard for repair center.

(9) Keystone calibration procedures



1. Put the projector onto a platform,and make sure the projector feet are all adjusted close to the Bottom cover maximumly and steadily.
2. turn on the projector.
3. It can take a minute for the image to achieve full brightness. Press the direction keypad following the actions below:

   Up twice,down twice, left once, right once, left once, right once(▲▲▼▼◄►◄►),press the MENU button, Enter the engineer mode.

4. Move down the color bar to “Keystone 00 Get” item, Press “enter” button. Keystone calibration procedures completely.

(10)ADC adjustment

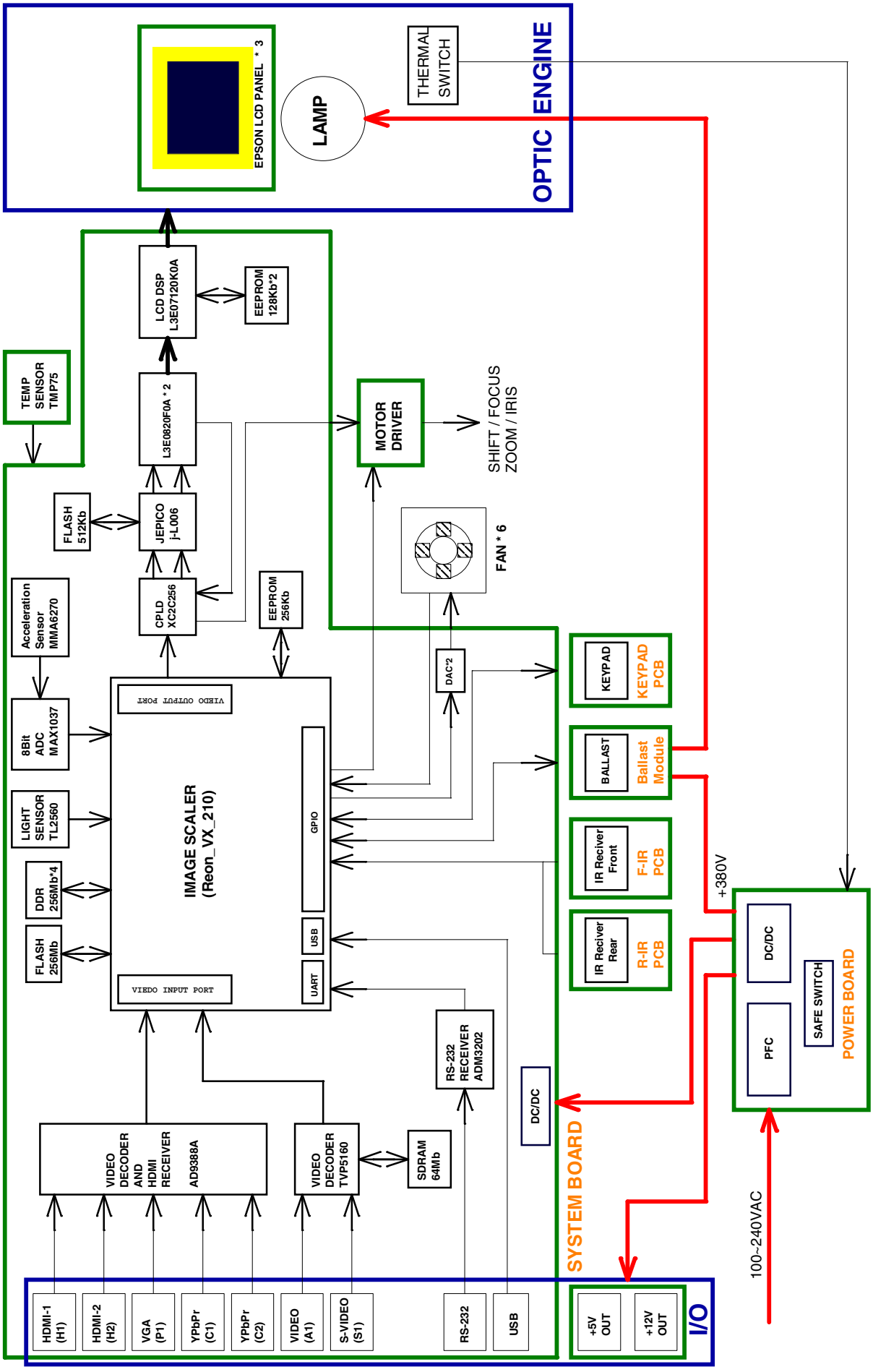
The ADC Calibration adjustment must use the dedicated device: Pattern Generator- Quantum Data 802B.

1. Turn on the power then connect the PC signal cable. Set the generator format as DMT1060, image as"W100B0", as below.

2.It can take a minute for the image to achieve full brightness. Press the direction keypad following the actions below:
Up twice,down twice, left once, right once, left once, right once(▲▲▼▼◄►◄►),press the MENU button, Enter the engineer mode.

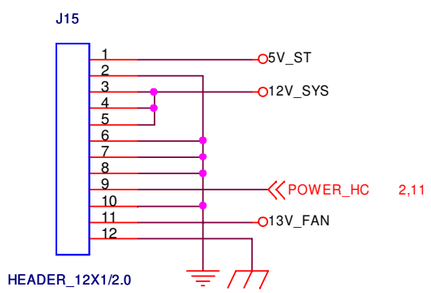
3.Choose the "ADC Calibration", press right key to conduct ADC calibration . do not go to next step until the image appears again, or it should be re-calibrated .

6. Block Diagram

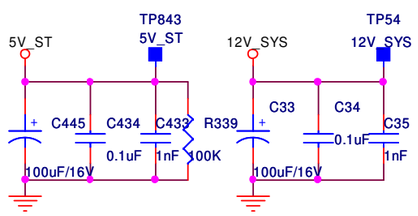


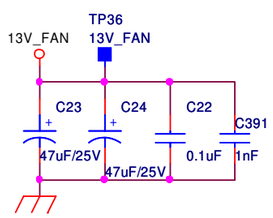
7. Schematic Diagrams

DC POWER INPUT

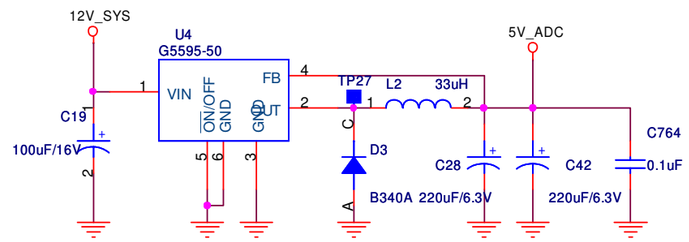


close to connector

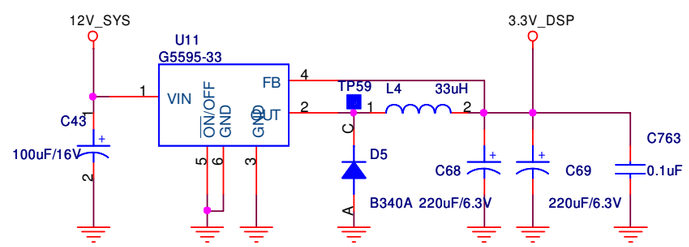




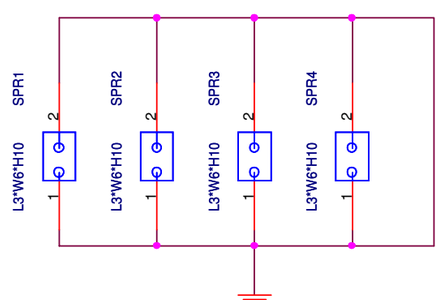
12V_SYS → 5V_ADC 2000mA



12V_SYS → 3.3V_DSP 3300mA

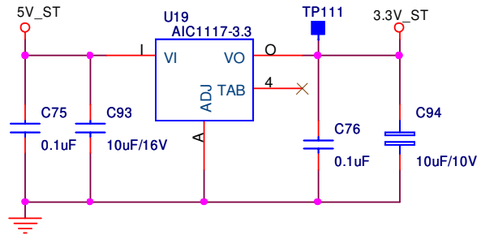


POWER	CURRENT
5V_ST	450mA
12V_SYS	3300mA
-6V	100mA
13V_FAN	1200mA



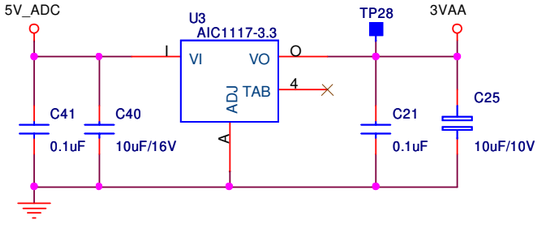
FOR STAND-BY POWER

400mA



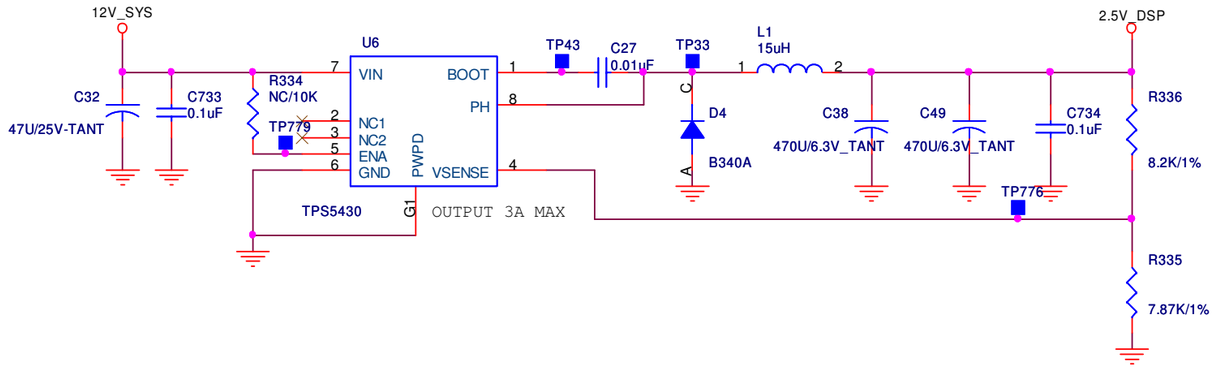
FOR FAN_LAMP_TEMP_SENSOR POWER

17.5mA

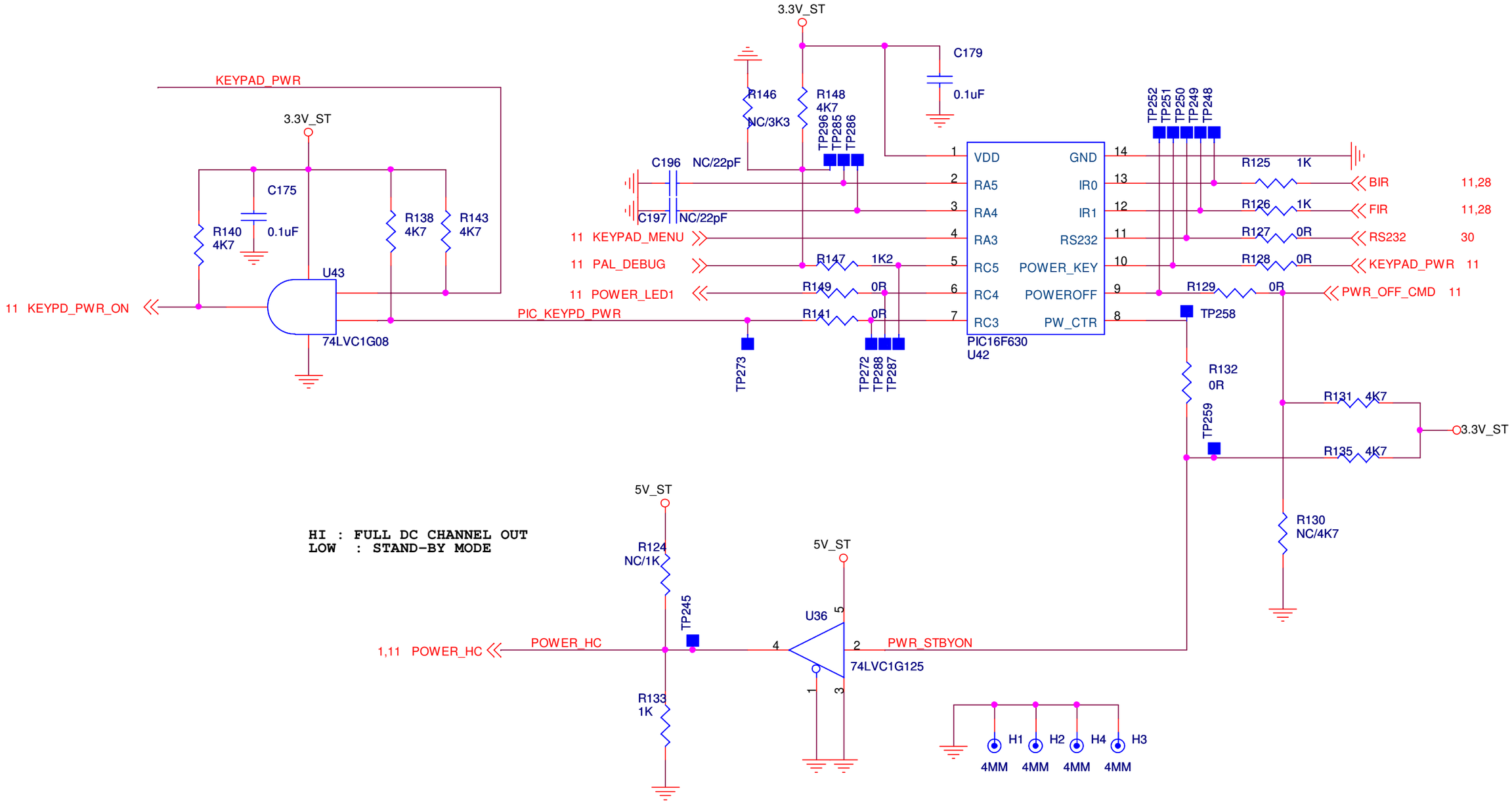


12V_SYS → 2.5V_DSP

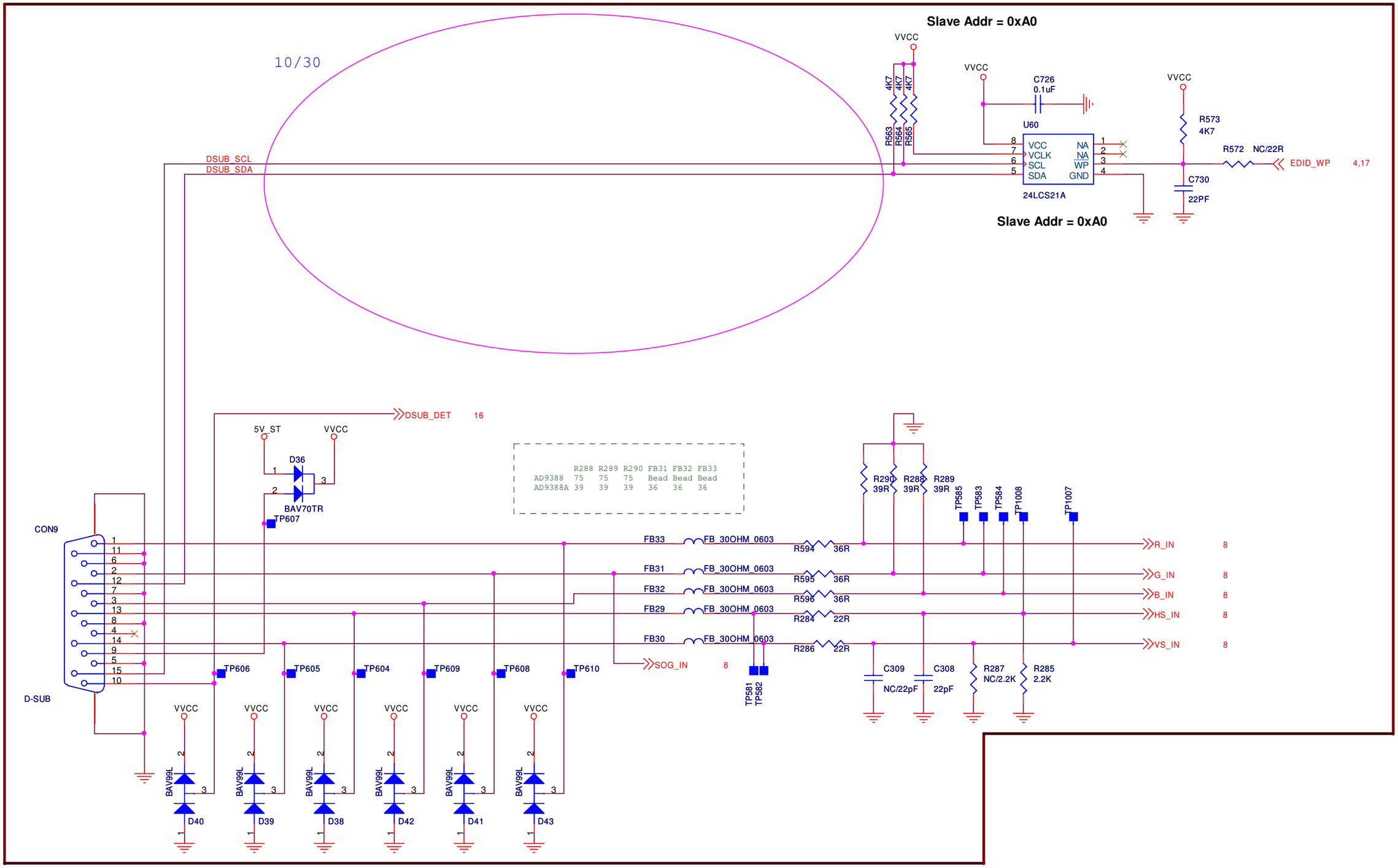
2300mA



ViewSonic Corporation		
Model		
Title	POWER_SYSTEM	
Date		Rev:



ViewSonic Corporation		
Model		
Title	POWERPIC	
Date		Rev:



ViewSonic Corporation		
Model		
Title	DSUB_INPUT	
Date		Rev:

HDMI 1

J2474-0107-00

CON6 HDMI

注意信號佈線必需對稱、等長佈線

U62A CM2021

U62B CM2021

Q19 NC/MMBT3904

Q7 NC/MMBT3904

U61 24LCS22AT-I/SN

Slave Addr = 0xA0

HDMI 2

J2474-0107-00

CON5 HDMI

注意信號佈線必需對稱、等長佈線

U64A CM2021

U64B CM2021

Q18 NC/MMBT3904

Q8 NC/MMBT3904

U63 24LCS22AT-I/SN

Slave Addr = 0xA0

CON7 NC/DIP/DVI_D_CON

L15 NC/CHOKE_CM14

L16 NC/CHOKE_CM14

L17 NC/CHOKE_CM14

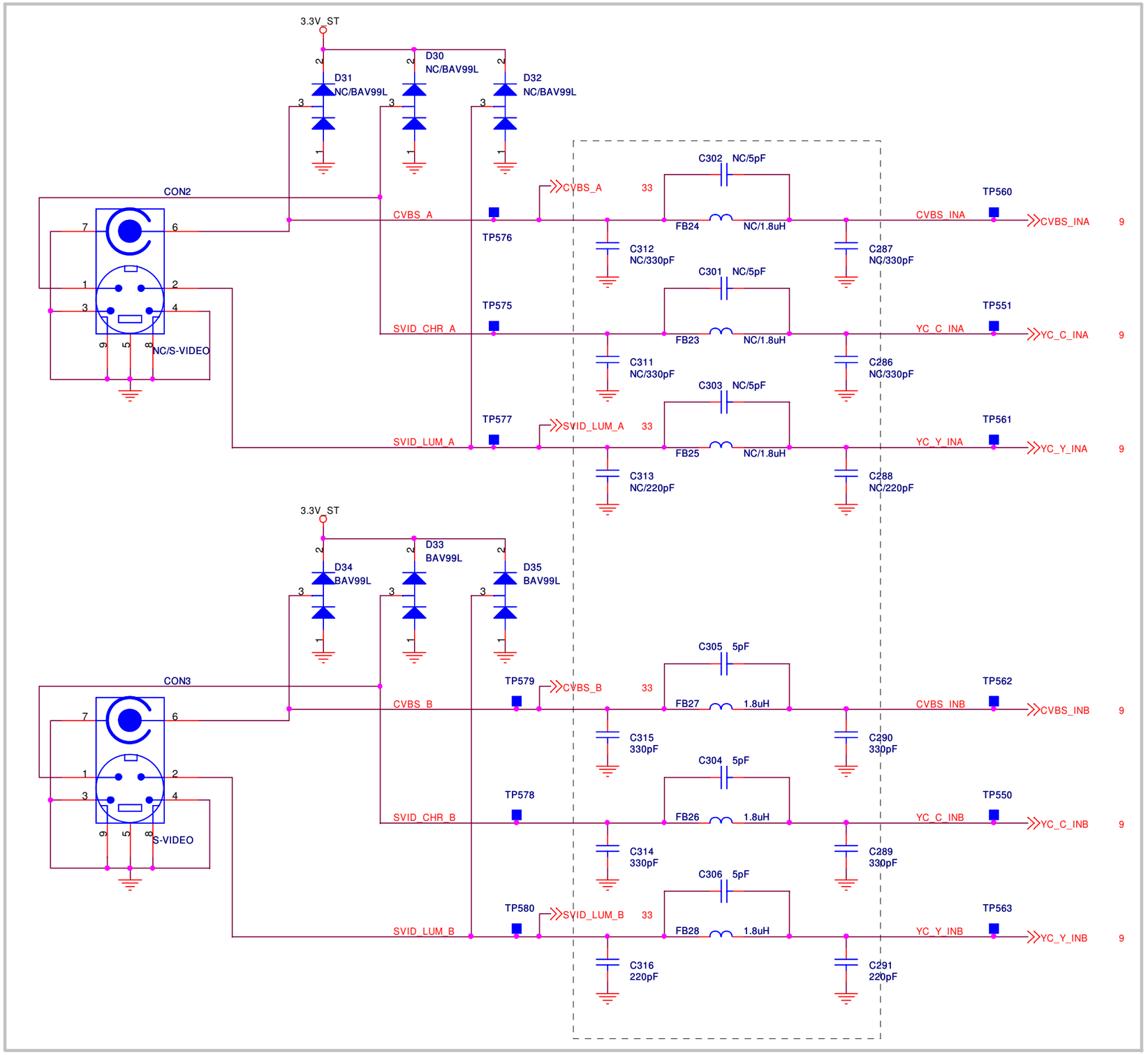
L18 NC/CHOKE_CM14

U65 NC/24LCS21A

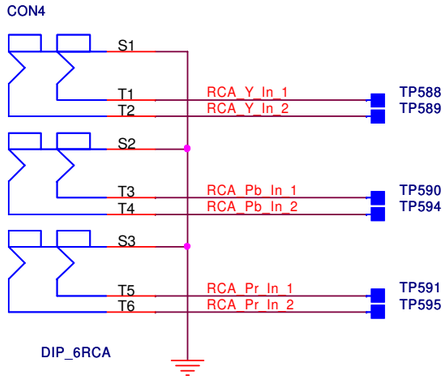
Slave Addr = 0xA0

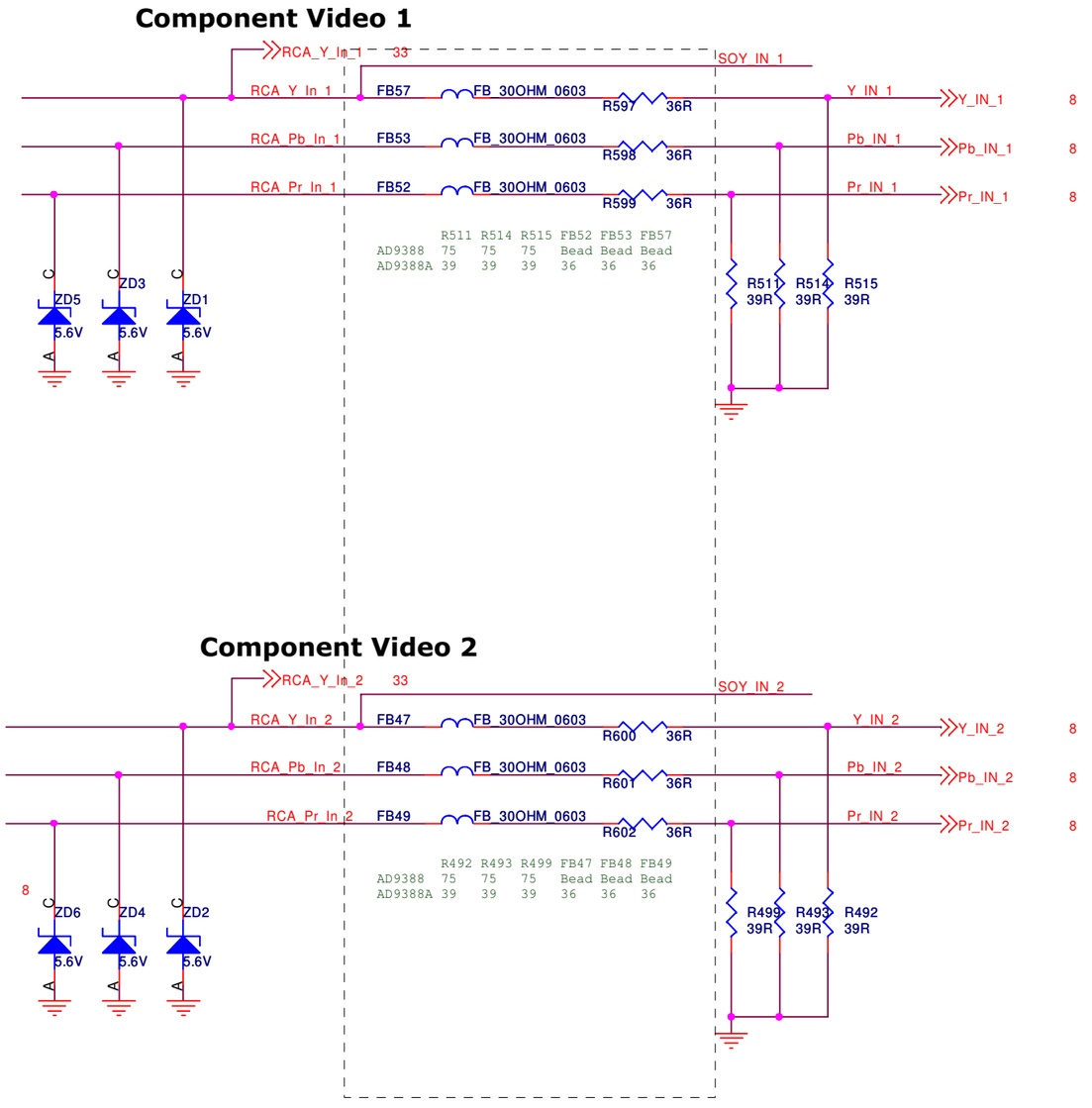
Confidential - Do Not Copy

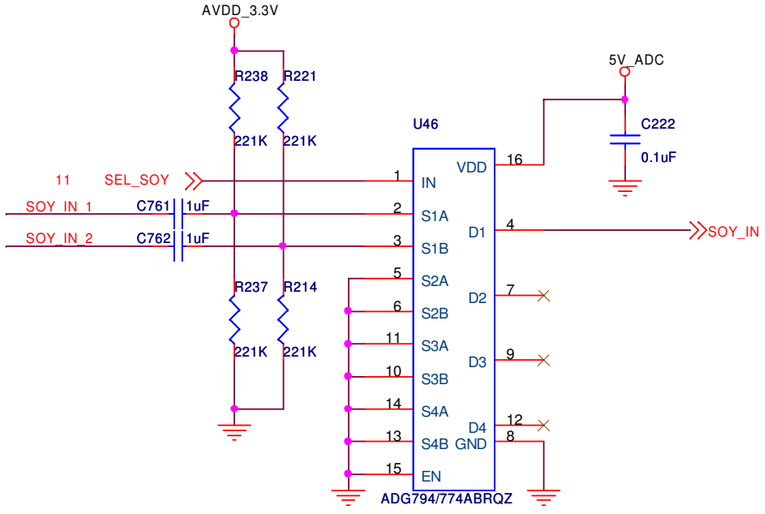
ViewSonic Corporation		
Model		
Title	HDMI_DVI_INPUT	
Date		Rev:



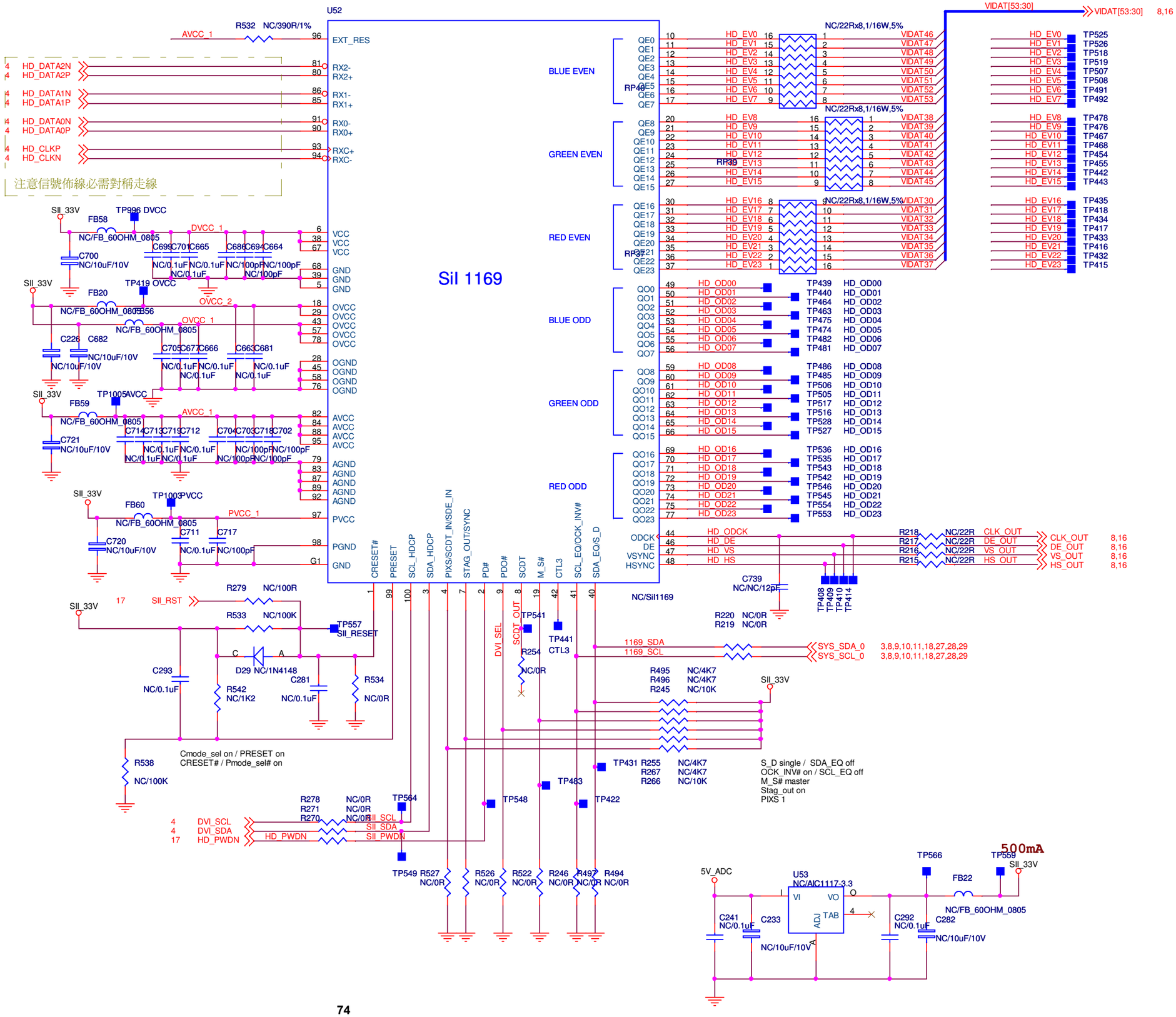
ViewSonic Corporation		
Model		
Title	VIDEO_INPUT	
Date		Rev:



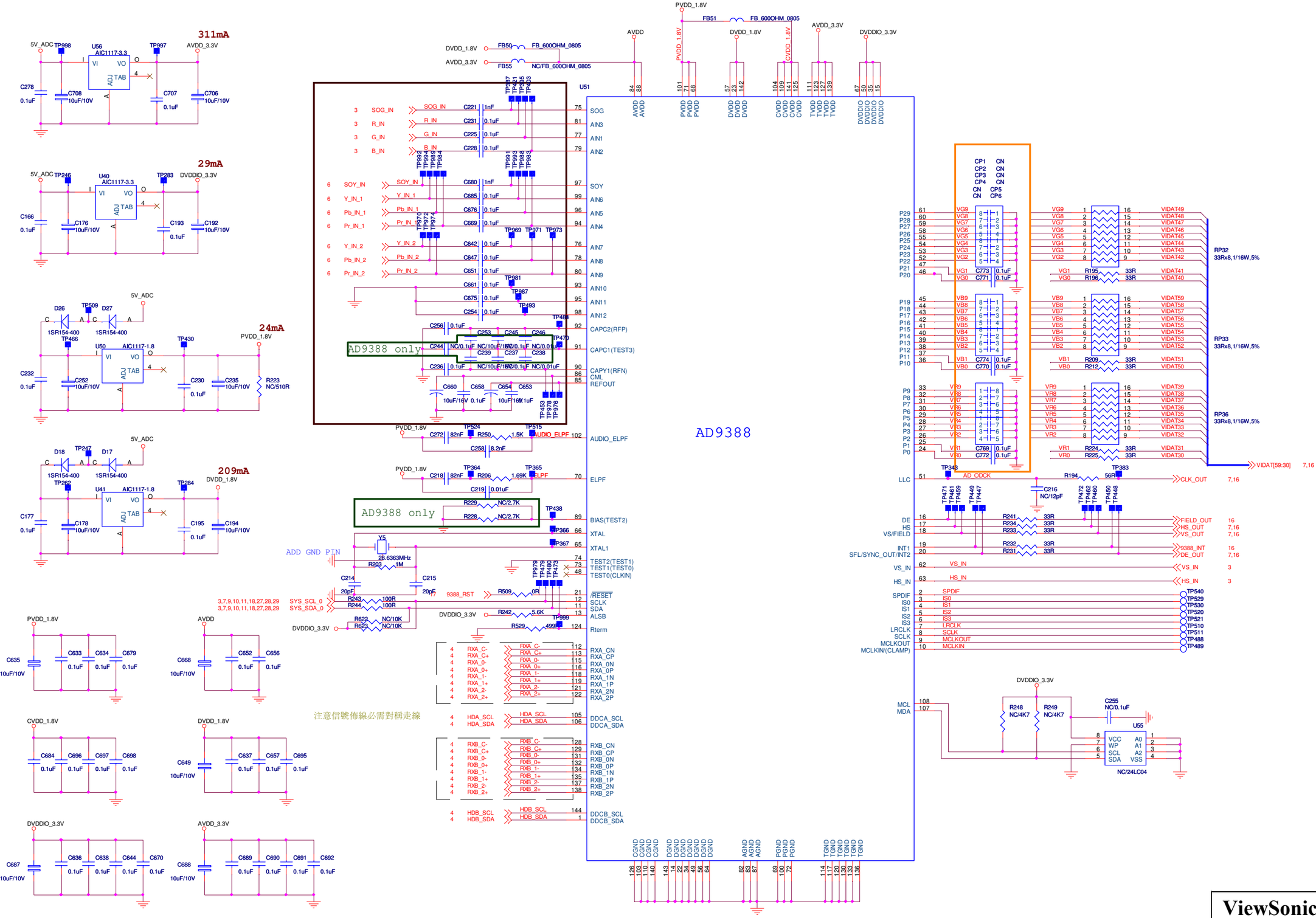




ViewSonic Corporation		
Model		
Title	YPBPR_INPUT	
Date		Rev:



ViewSonic Corporation		
Model		
Title	DVI_SII1169	
Date		Rev:



ViewSonic Corporation

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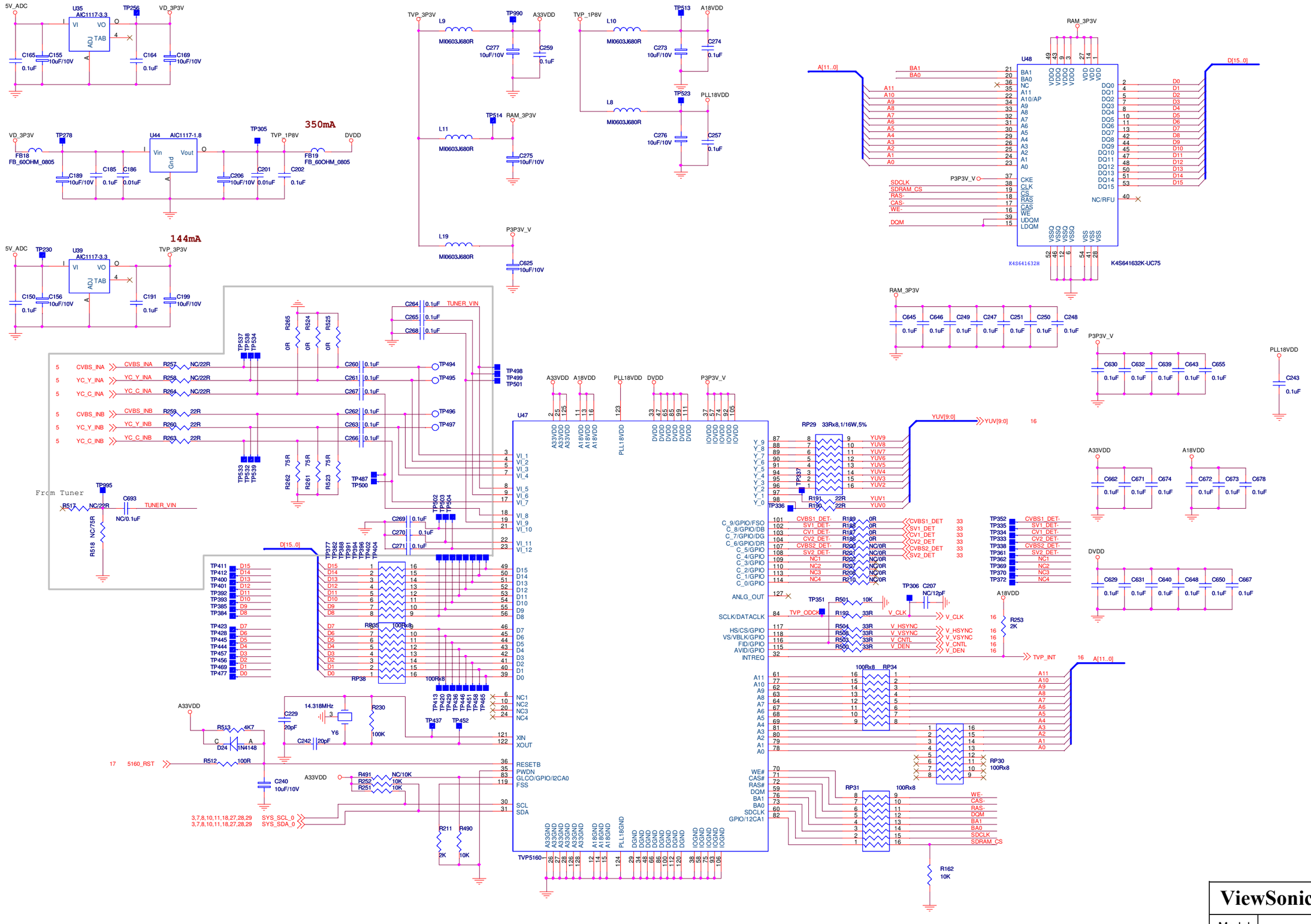
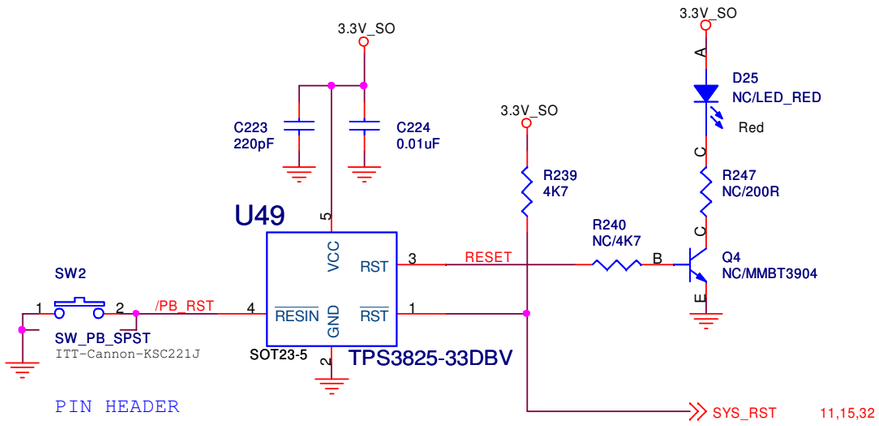
PRO8100-1

ViewSonic Corporation		
Model		
Title	AD9388A	
Date		Rev:

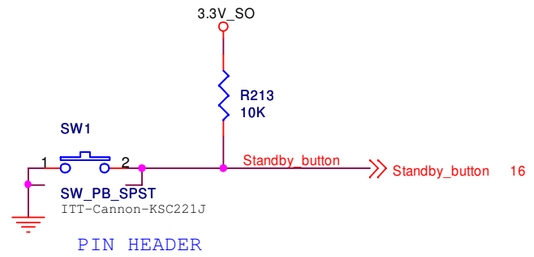


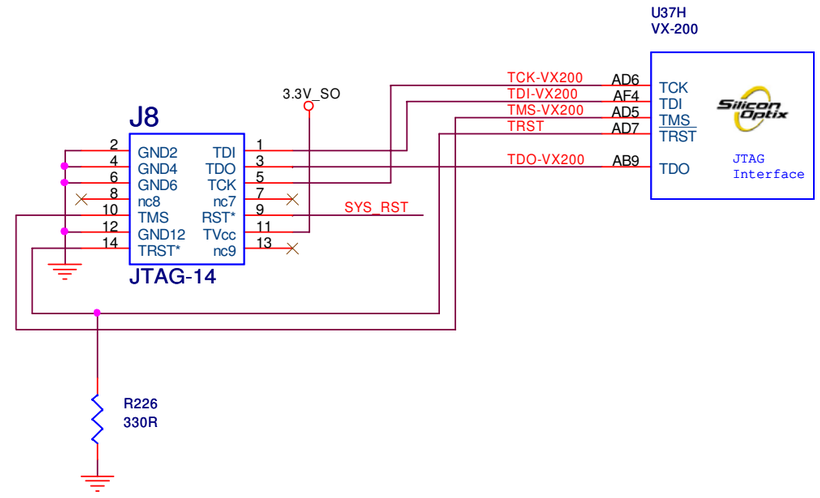
ViewSonic Corporation		
Model		
Title	TVP5160+SDRAM	
Date		Rev:

System Reset Logic

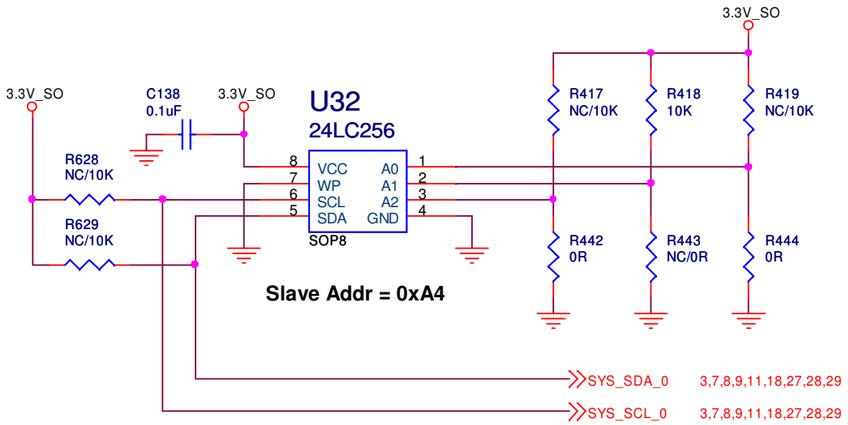


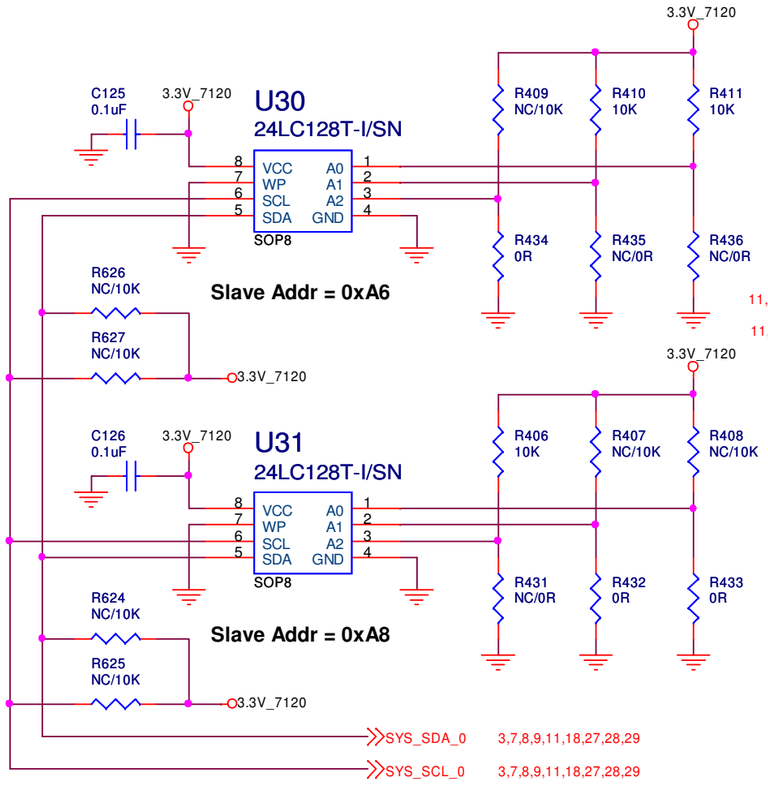
Standby Mode Button



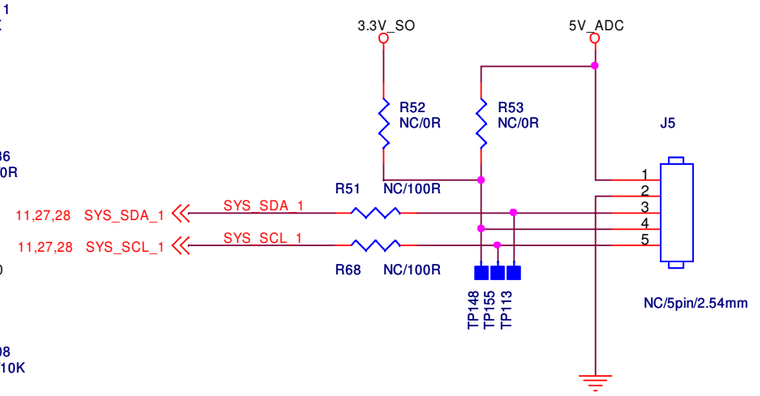


OSD Configuration Memory (32K x 8)

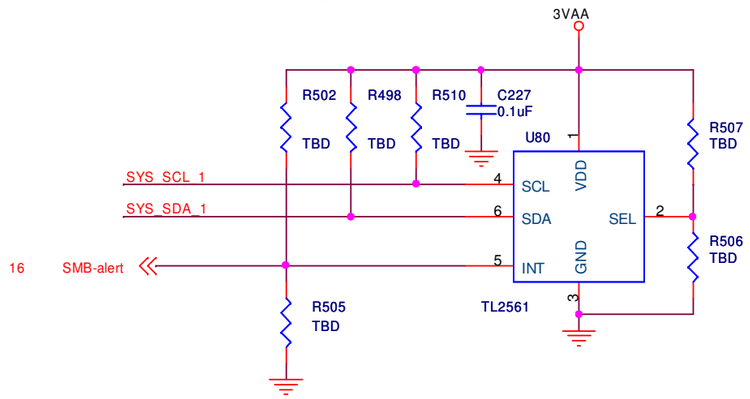




SPAS Connector



Light_Sensor



ViewSonic Corporation		
Model		
Title	MISC	
Date		Rev:

CN4
FPC-0.5-20P
RP42 4K7x8
R393 1K
R382 1K
3.3V_ST

2 KEYPAD_PWR
2 KEYPAD_MENU
16 KEYPAD_FOCUS
16 KEYPAD_ENTER
16 KEYPAD_SHIFT
16 KEYPAD_UP
16 KEYPAD_DOWN
16 KEYPAD_LEFT
16 KEYPAD_RIGHT
16 KEYPAD_SOURCE
17,27 LED_CONTROL

2 POWER_LED1
POWER_LED1 R521 220R
POWER_LED2 R519 220R
STATUS_LED2 R539 220R
STATUS_LED1 R535 220R
LED1
LED2
LED-BI
10/30
3VAA
LED_STB 27
R516 NC/1K
3.3V_ST
R520 NC/1K
Q16 NC/MMBT3904
B R528 NC/4K7 PWR_LED_SET

17 RESET_M
17 404_IN1
17 404_IN2
17 404_IN3
17 404_IN4
J26
20X1/1mm
RESET_M
EP_SDAT
EP_SCLK
404_CS
404_IN1
404_IN2
404_IN3
404_IN4
404I_EXT 32
404I_MOB12 32
404I_SDAT 32
404I_SCLK 32
404I_CS 32
OSCIN_A 32
OSCIN_B 32

3.3V_SO
R137 10K
TP269
C190 0.1uF
Y4 OSC4 27Mhz
TP274
TP268
R139 47R
C766 15pF
U37F VX-200
REFCLK AB11
AVDD_SYS AE8
AVDD_MC F12
AVDD_AUX AF9
AVDD_VID AE9
AVSS_SYS AF7
AVSS_MC F13
AVSS_AUX AE10
AVSS_VID AF8
NC1 AA11 TEST7 TP265TEST7
NC2 AD8 TEST1 TP282TEST1
NC3 AE5 TEST0 TP291TEST0
Clock Generator

Note that the AVDD and AVSS pins of U37 are not connected to the board power and ground planes.

1.2V_SO R465 100R TP944 AVDD_SYS
C610 100uF/16V
C601 0.1uF
AVSS_SYS
1.2V_SO R477 100R TP961 AVDD_MC
C618 100uF/16V
C570 0.1uF
AVSS_MC
1.2V_SO R451 100R TP917 AVDD_AUX
C557 100uF/16V
C580 0.1uF
AVSS_AUX
1.2V_SO R459 100R TP931 AVDD_VID
C588 100uF/16V
C595 0.1uF
AVSS_VID

3.3V_SO
C760 NC/0.1uF
R590 NC/4K7
IR_IN
U85 NC/74LVC1G08
BIR
FIR
R591 0R
2,28
2,28

3.3V_SO
R631 NC/10K
C508 0.1uF
U72
NC/10K R630
SYS_SCL_1
SYS_SDA_1
PCA9554PW
02089-0007-01
RSTB 18
SLEEP 29
RT_CTRL 26
SEL_SOY 6
BUSY 18
PWR_LED_SET
TP882 IO_6
TP880 IO_7
R391 NC/10K
R392 NC/10K
R389 10K
R388 NC/0R
R393 0R
R390 0R
Slave Addr = 0x48

U37G VX-200
21,22,23 EP_SCS
21,22,23,26 EP_SCLK
21,22,23,26 EP_SDAT
26 SCSHBR
26 SCSHBG
26 SCSHBB
404_CS
R182 0R AB1
R150 0R AA5
R183 0R AB2
R145 0R AA6
R142 0R AB4
R144 0R AB3
R586 0R AA7
AC1
KEYPAD_MENU
KEYPAD_PWR
R588 1K AC3
R589 1K AC2
2 PAL_DEBUG
R587 0R AD1
AB6
GPIO0 GPIO1 GPIO2 GPIO3 GPIO4 GPIO5 GPIO6 GPIO7 GPIO8 GPIO9 GPIO10 GPIO11
GPIO12 GPIO13 GPIO14 GPIO15 GPIO16 GPIO17 GPIO18 GPIO19 GPIO20 GPIO21 GPIO22 GPIO23 GPIO24
AE1
AD2 R161 1K KEYPD_PWR_ON 2
AA8 R454 NC/1K BIR
AF2 R159 0R
AB7
AC5
AE3 R160 0R HDA_DET 4
AC6 R464 NC/0R HDB_DET 4
AC7 R185 NC/0R LAMP_RET 28
AD4 POWER_LED1 POWER_HC 1,2
AB8 POWER_LED2
AA9 STATUS_LED1
AF3 STATUS_LED2
PWR_OFF_CMD 2
General Purpose I/O

3.3V_SO
R97 4K7
R91 4K7
R98 4K7
R422 4K7
C137 330pF
C136 330pF
close to u31

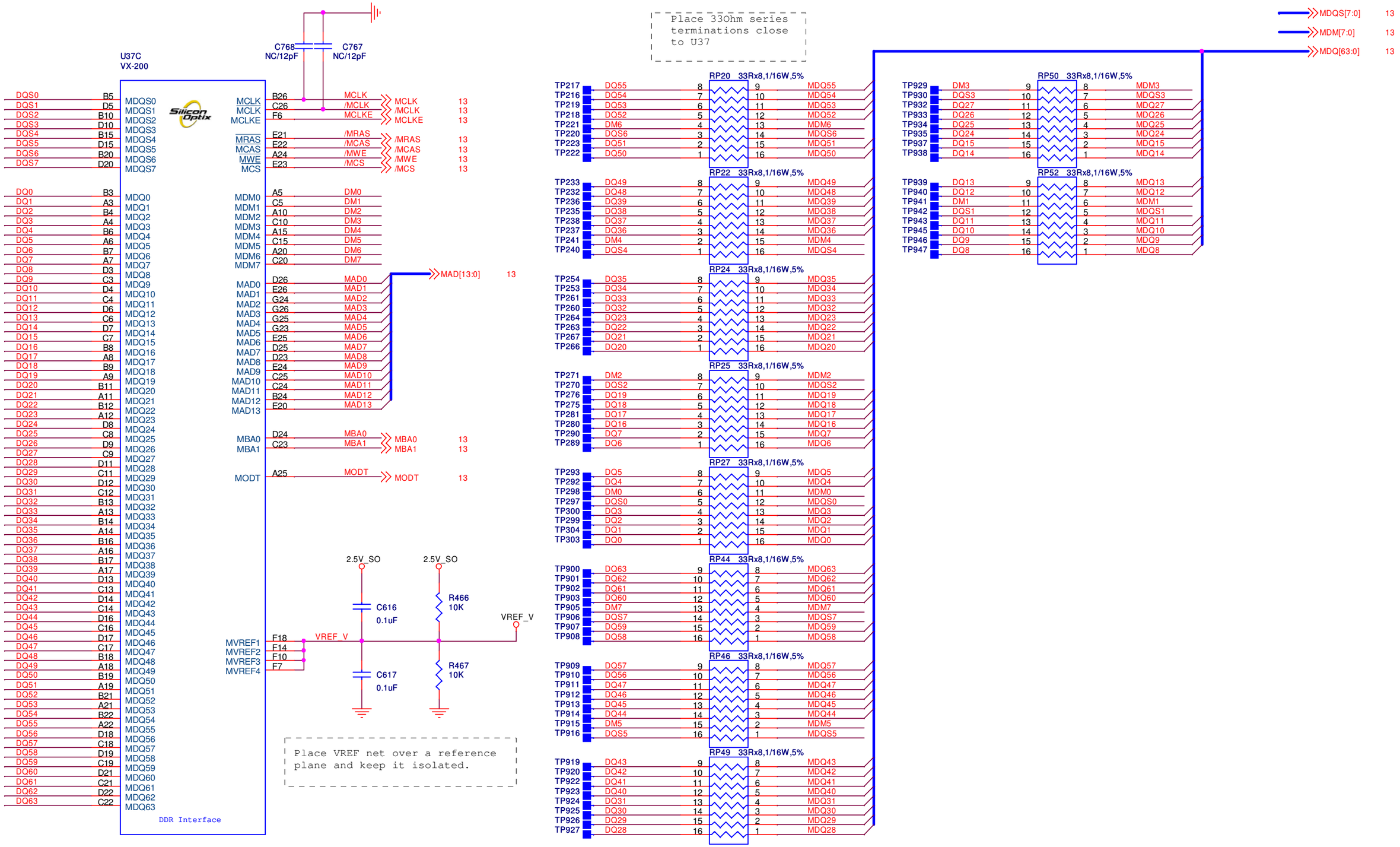
VSSA33
C163 NC/18pF
C149 NC/18pF
R119 NC/1M
Y3 NC/CS10-48.000M
TP234
TP231
3.3V_SO
R184 10K
GPIO7
TP894
TP202
U37E VX-200
ADD GND PIN
3,7,8,9,10,18,27,28,29 SYS_SCL_0
3,7,8,9,10,18,27,28,29 SYS_SDA_0
R423 0R
R420 0R
10,27,28 SYS_SCL_1
10,27,28 SYS_SDA_1
R427 0R
R96 0R
30 RXDA
30 TXDA
TP897
TP898
10,15,32 SYS_RST
TWIACLK V21
TWIADAT Y25
TWIBCLK U21
TWIBDAT Y26
RXDA Y22
TXDA Y21
RXDB/TXDB/DATA16 Y23
RESET Y24
AD10
USB_XO AE20
USB_XI AF21
USB_DP AF17
USB_DM AF18
USB_ID AF16
USB_REXT AE18
USB_ATEST AE21
USB_VBUS AE16
USB_DRVVBUS AC12
USB_VDD AD16
USB_VDDA33C AE19
USB_VDDA33T AA15
USB_VDDA33T AF20
USB_VSS AE17
USB_VSSA33C AD18
USB_VSSA33T AB15
USB_VSSA33T AC16
USB_VSSA33T AF19
Host Interface
USB_DP
USB_DM
TP257 USB_ID
TP227
R421 10K
R441 10K
VDDA33
1.2V_SO
3.3V_SO
R449 3K4/1%
Place R449 as close as possible to U37
Pin-Y24 TXDB/DATA16 high: 8-bit Flash
Pin-Y24 TXDB/DATA16 low: 16-bit Flash
R116 0R
VSSA33

3.3V_SO
BLM31AF700SN1
L6
C153 10uF/10V
C152 0.1uF
C151 0.1uF
VDDA33
VSSA33

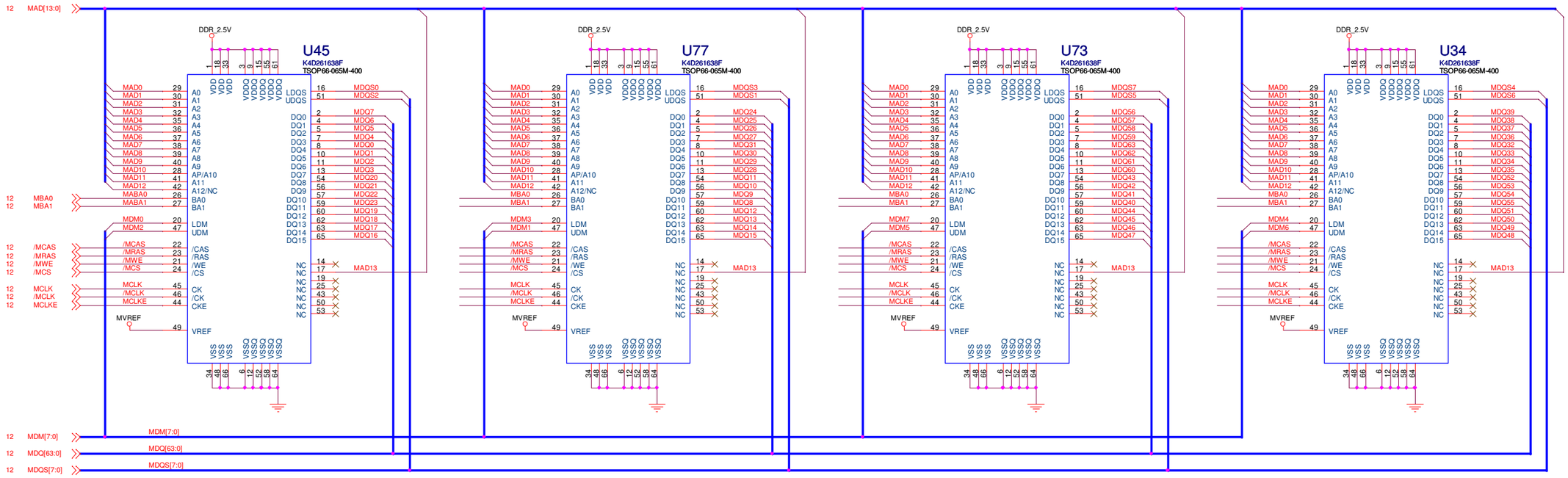
Place L14 as close as possible to CON1
CHOKE_CM14
L14
R292 0R
5V_ADC
U54 TPS2051BD
IN1 IN2 OUT1 OUT2 OUT3 OC EN GND
R274 1206L150
VBUS
C310 100uF/16V
C320 0.1uF
N1 N2 1608SGX ESD2
N1 N2 1608SGX ESD1
CON1
DIP/KS-001-BNW(USB)
02474-0061-01
USB_DP, USBDM differential Z0=90 ohm

3.3V_ST
2 KEYPAD_PWR
KEYPAD_MENU
KEYPAD_FOCUS
KEYPAD_ENTER
KEYPAD_SHIFT
KEYPAD_UP
KEYPAD_DOWN
KEYPAD_LEFT
KEYPAD_RIGHT
KEYPAD_SOURCE
NC/BAV99L
D7 D8 D9 D10 D11 D12 D13 D14 D15 D16

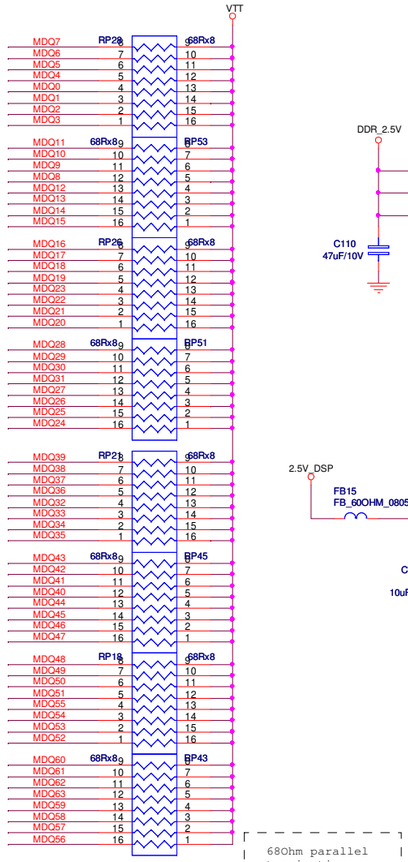
ViewSonic Corporation		
Model		
Title	VX-210	
Date		Rev:



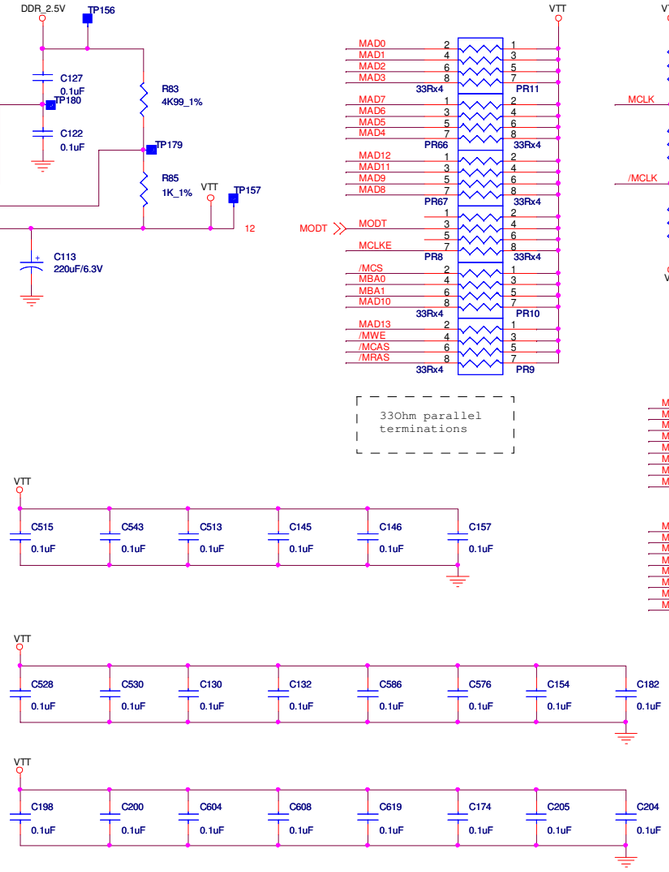
ViewSonic Corporation		
Model		
Title	VX-210_DDR_I/F	
Date		Rev:



128 Mbit x4 = 64 MByte
200MHz



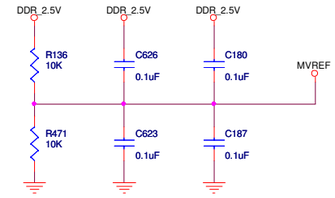
68Ohm parallel terminations



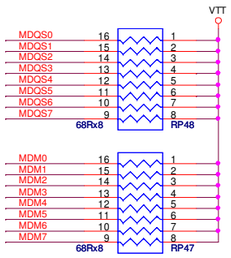
33Ohm parallel terminations

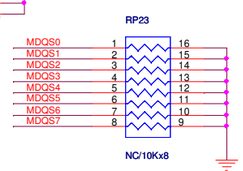
Clock termination:
Place at end of daisy chain.
Rodd =220|150 = 90 = Zodd or Zdiff
Reven = 75 = Zeven

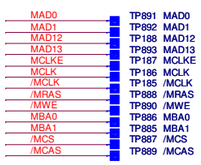
Route MVREF with a wide low inductance trace and avoid crosstalk to other signals.



NOTE: U27 and U30 are on the component side. U28 and U29 are on the solder side directly beneath U27 and U30 respectively. The address bus (MAD[13:0], MBA0, MBA1), the clock signals (MCLK, /MCLK) and the control signals (/MCAS, /MRAS, /MWE, /MCS, MCLKE) connect in a daisy chain to the four memories and then to the logic analyzer connector. Place the parallel termination at the end of the daisy chain.





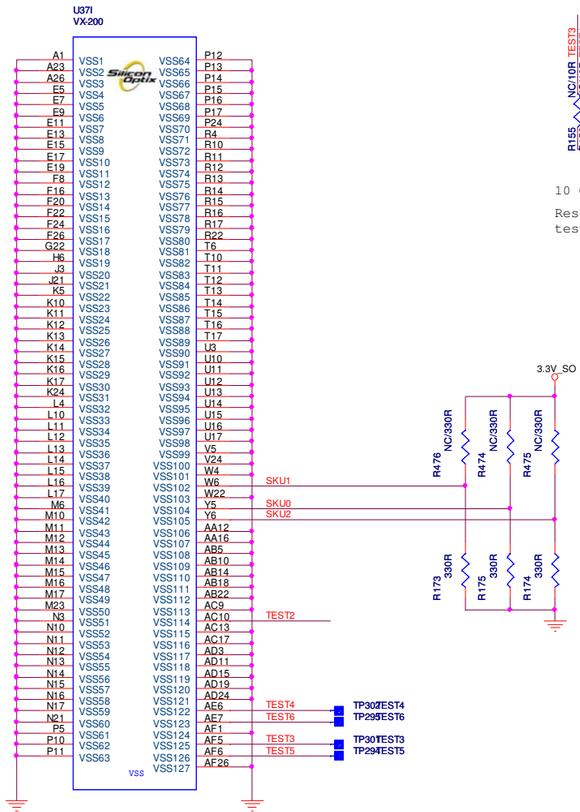


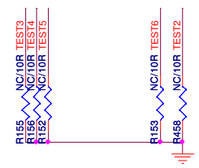
Place VTT de-coupling caps near pull-up termination resistor networks

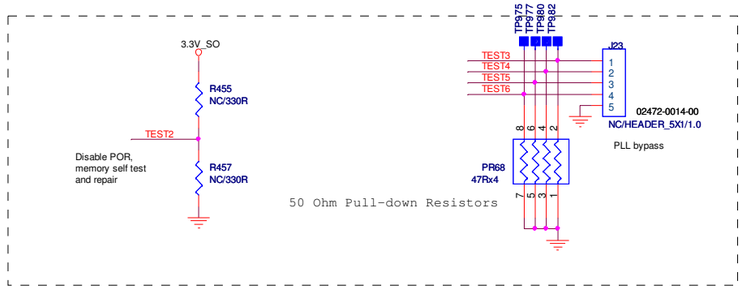
ViewSonic Corporation		
Model		
Title	VX-210_DDR_MEMORY	
Date		Rev:

TEST[7:0] are connected to DGND for normal operation

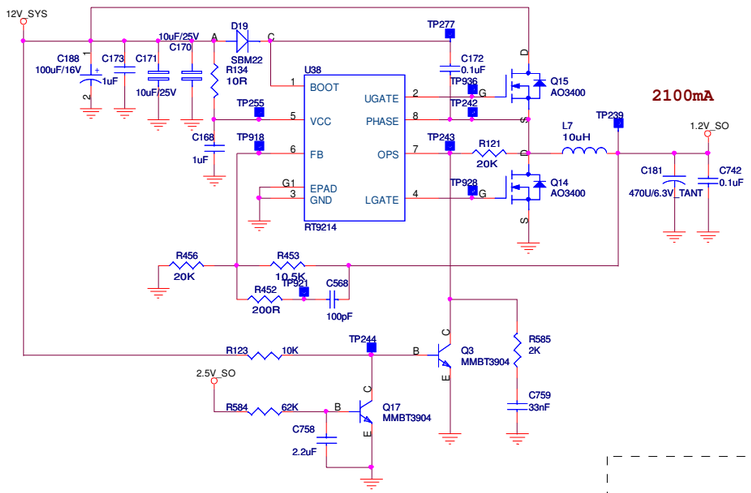
The circuitry below is for test purposes only

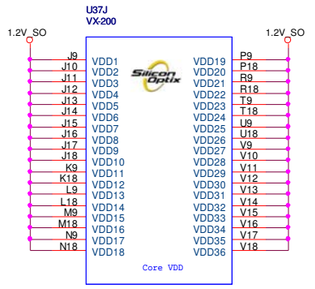


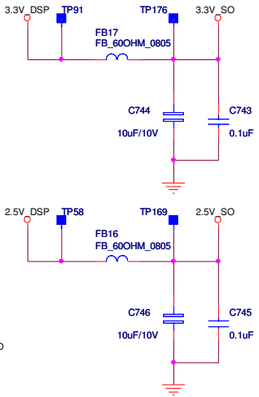


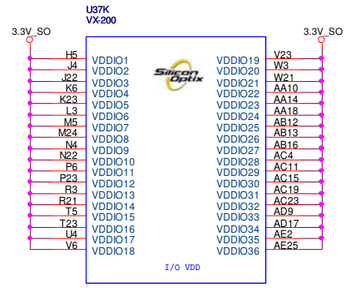


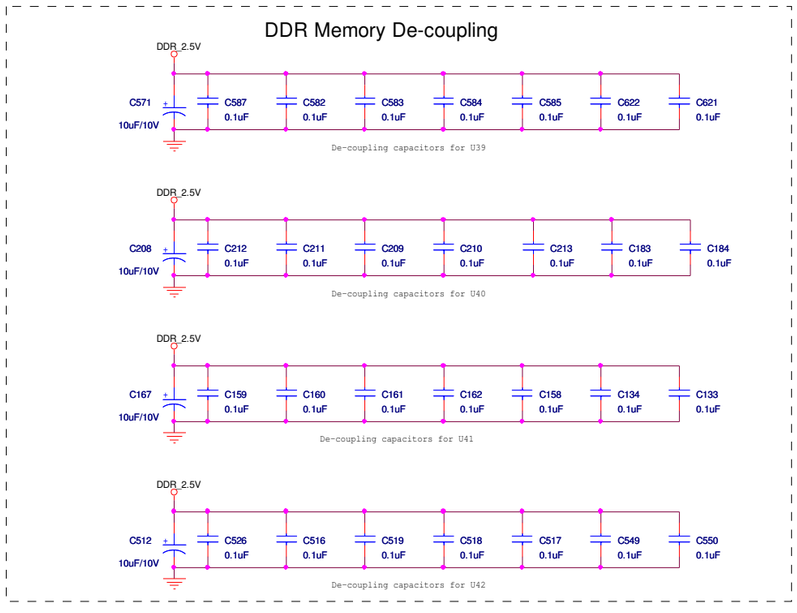
Resistor networks are for
test purposes only

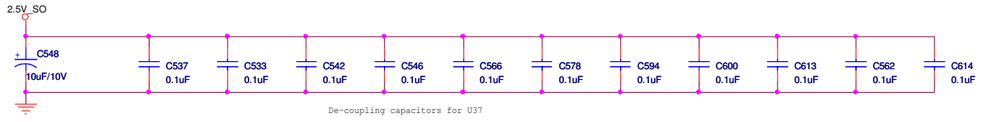


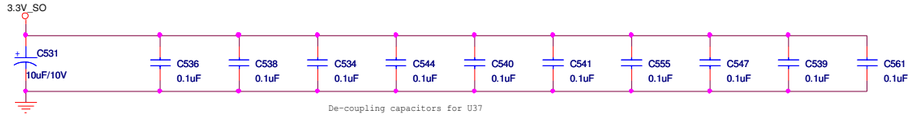


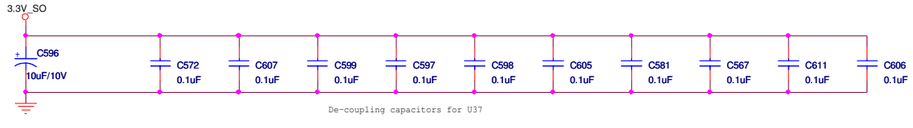


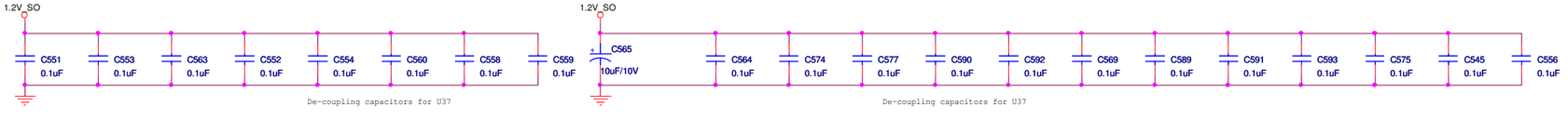




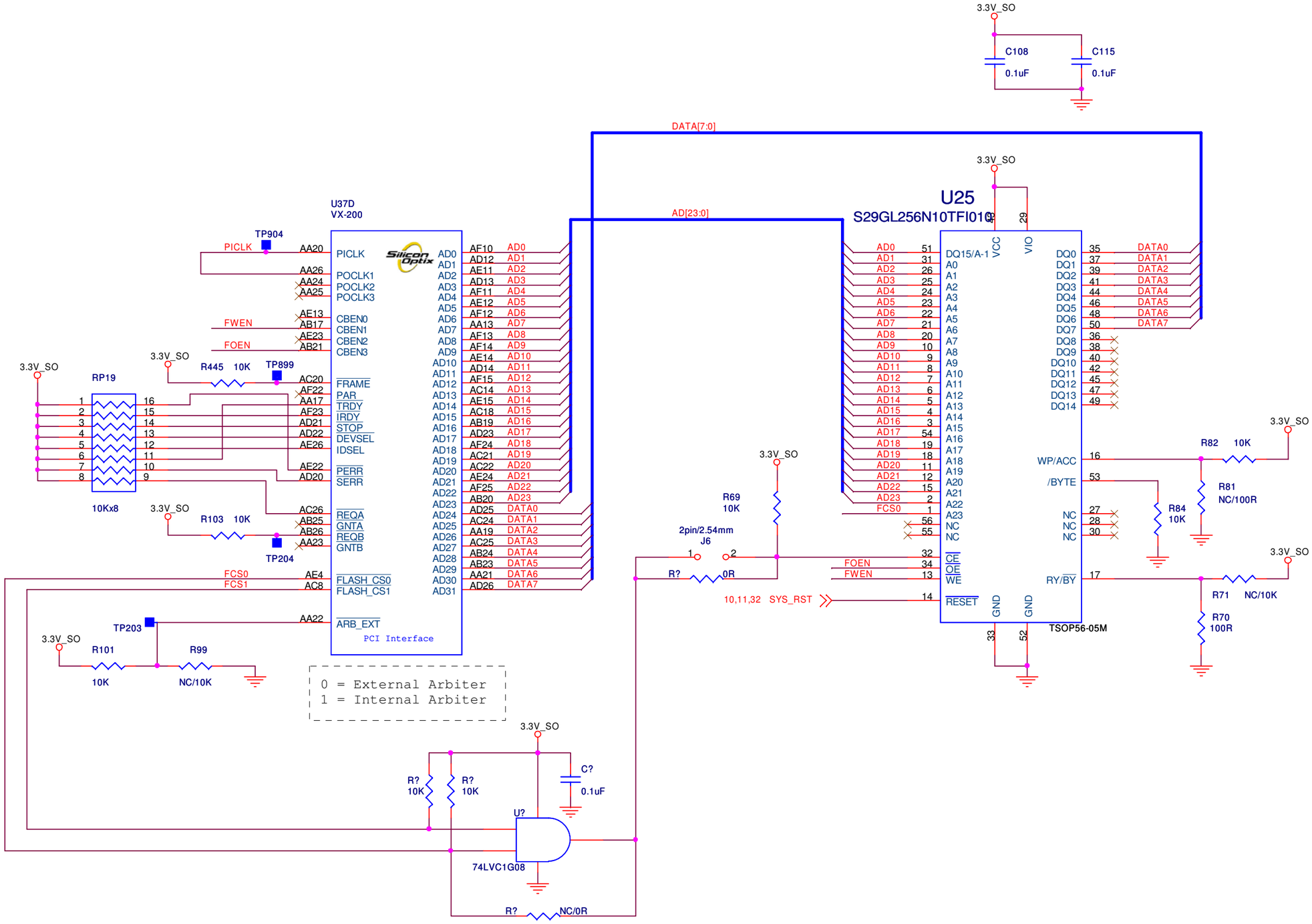




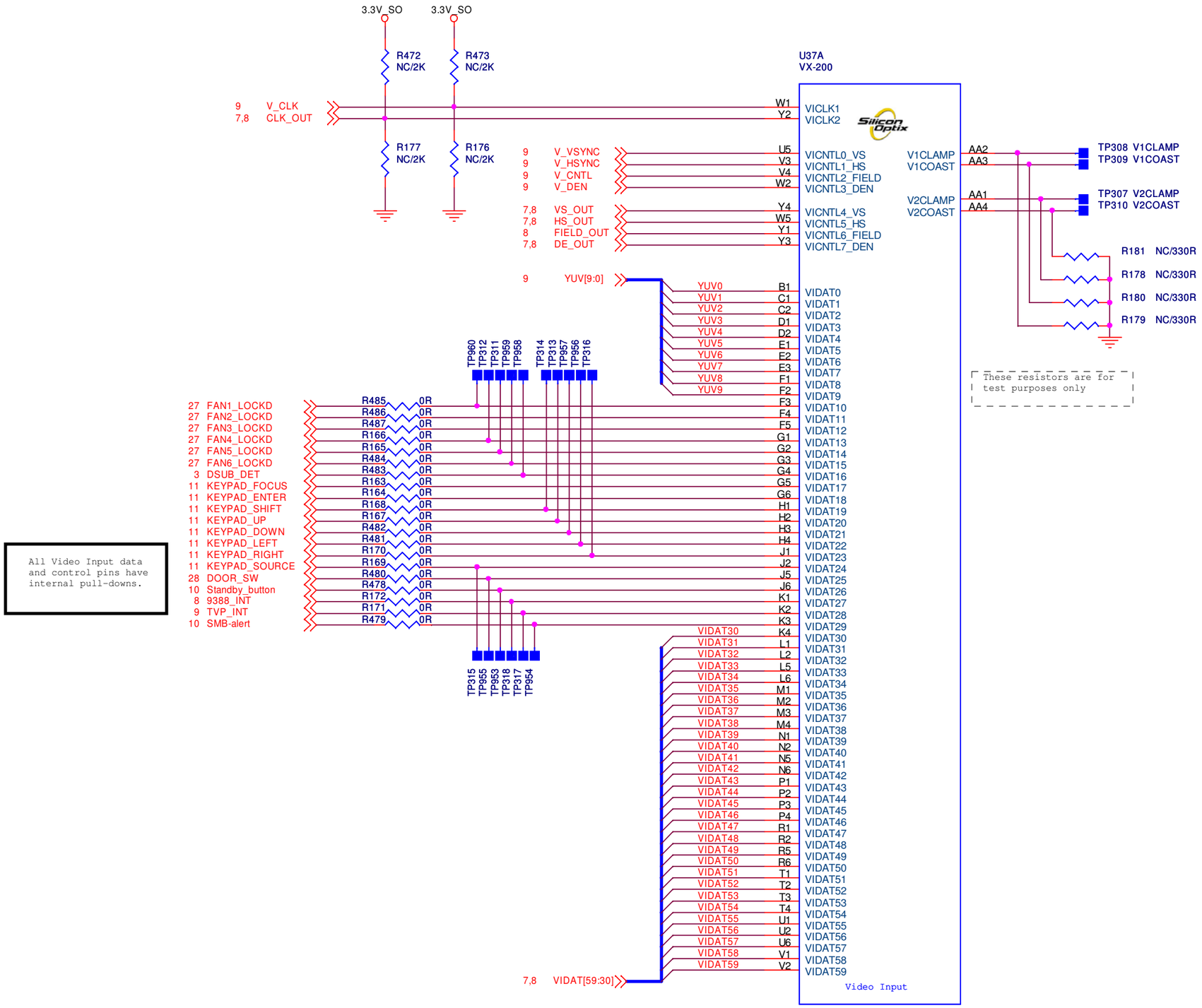




ViewSonic Corporation		
Model		
Title	VX-210_POWER	
Date		Rev:

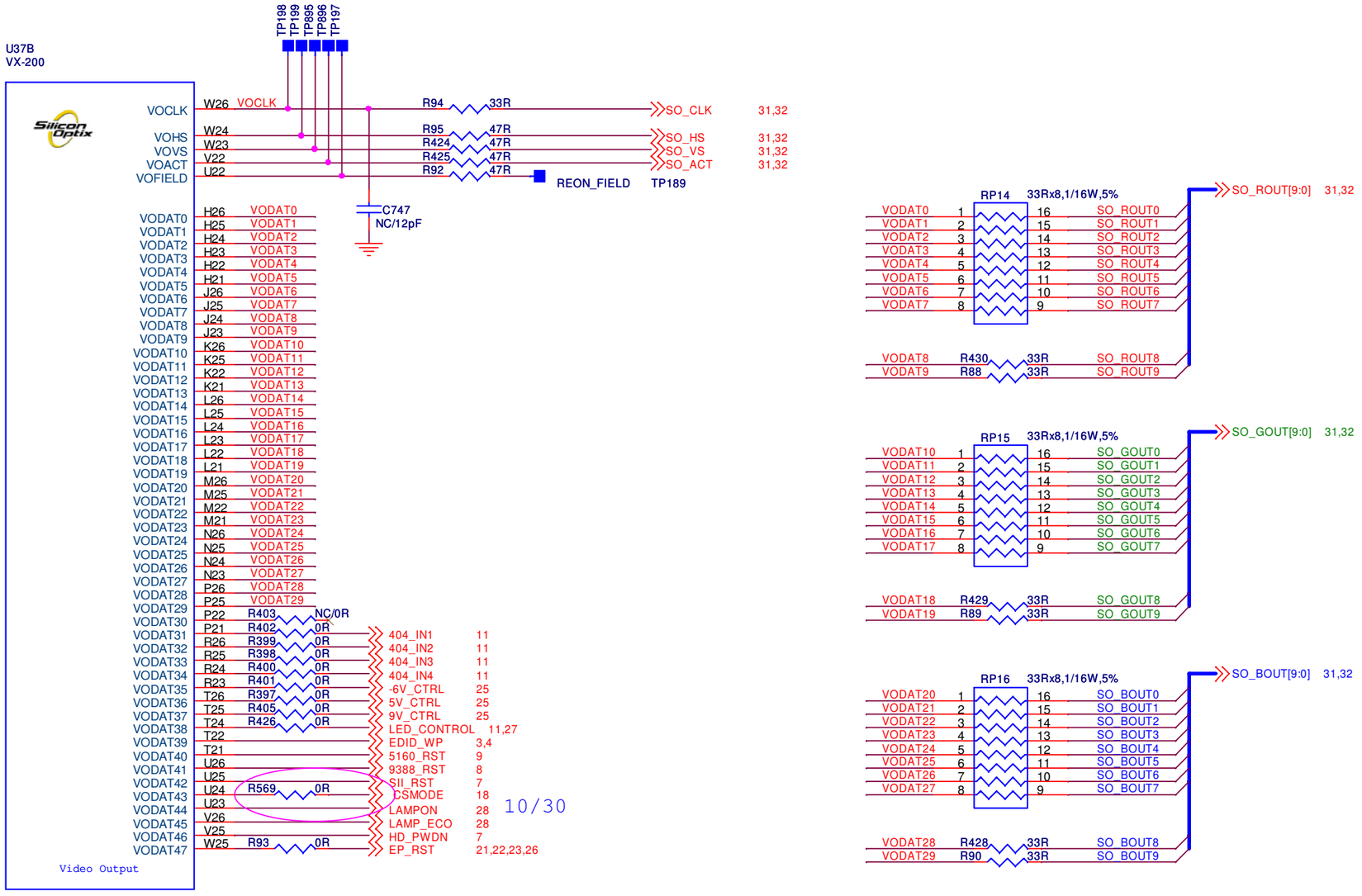


ViewSonic Corporation		
Model		
Title	VX-210_FLASH	
Date		Rev:



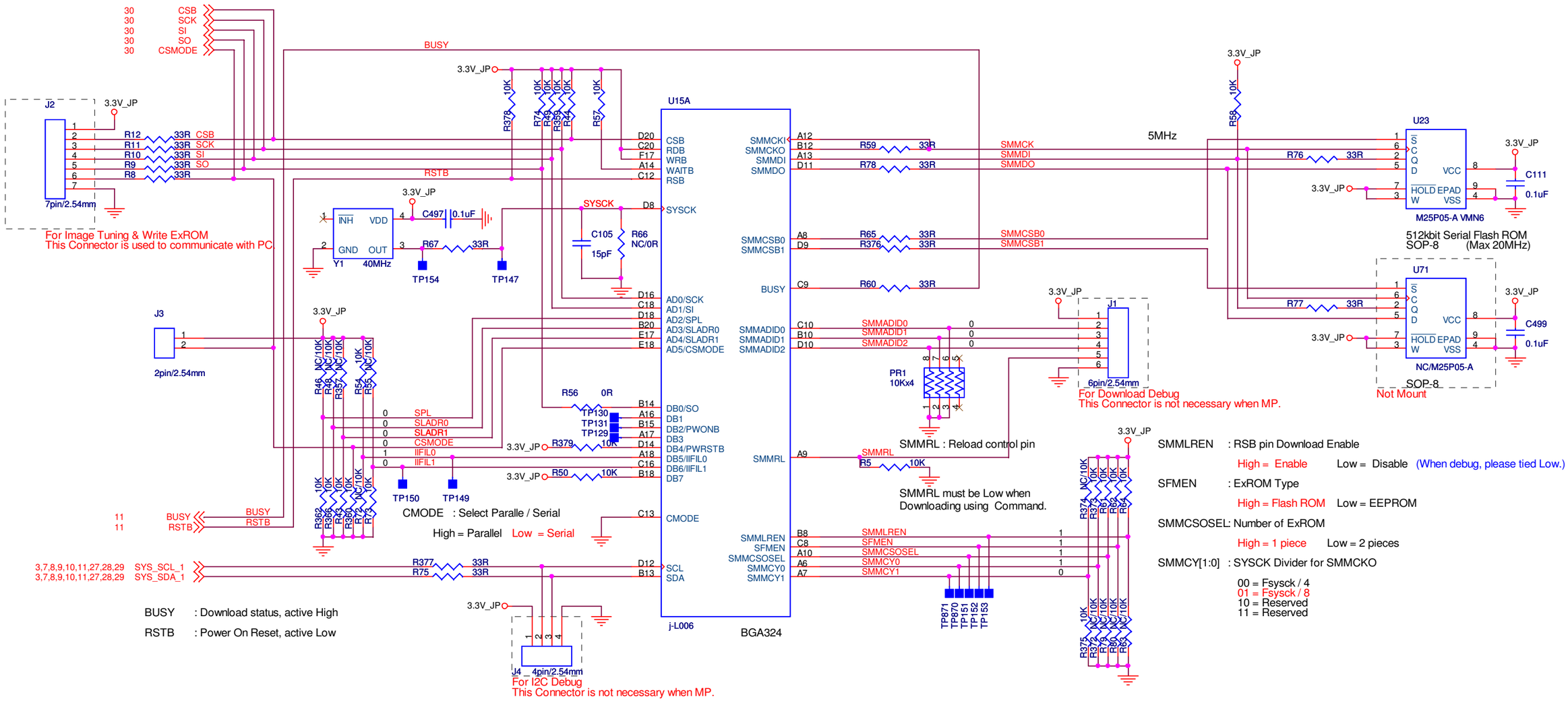
All Video Input data and control pins have internal pull-downs.

ViewSonic Corporation		
Model		
Title	VIDEO_INPUT	
Date		Rev:



ViewSonic Corporation		
Model		
Title	VIDEO_OUTPUT	
Date		Rev:

L006 mode : 2-wire serial with External ROM
Image Tuning : 4-wire serial
Write ExROM : 4-wire serial



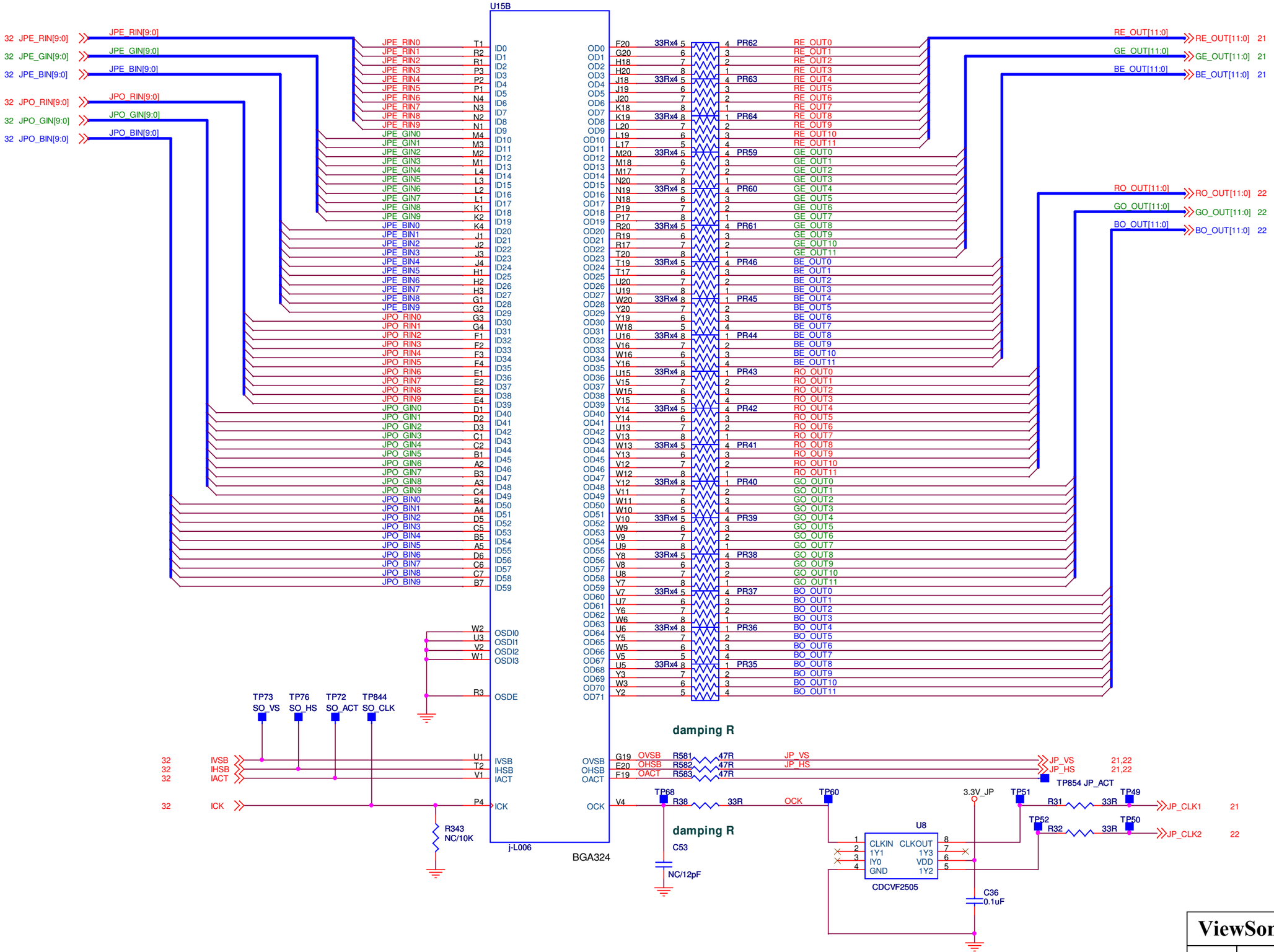
SPL : SCK invert
High = Invert Low = Not invert

SLADR[1:0] : I2C Slave Address
00 = 90h If conflict slave address,
01 = 92h please change SLADR.
10 = 94h
11 = 96h

CSMODE : Serial Mode
High = 4-wire Low = 2-wire(I2C)

IIFIL[1:0] : 2-wire(I2C) Noise Filter
00 = SYSCK 10MHz - 20MHz
01 = SYSCK 20MHz - 40MHz
10 = SYSCK 40MHz - 85MHz
11 = No Filter

ViewSonic Corporation		
Model		
Title	JEPICO_CPU_I/F	
Date		Rev:



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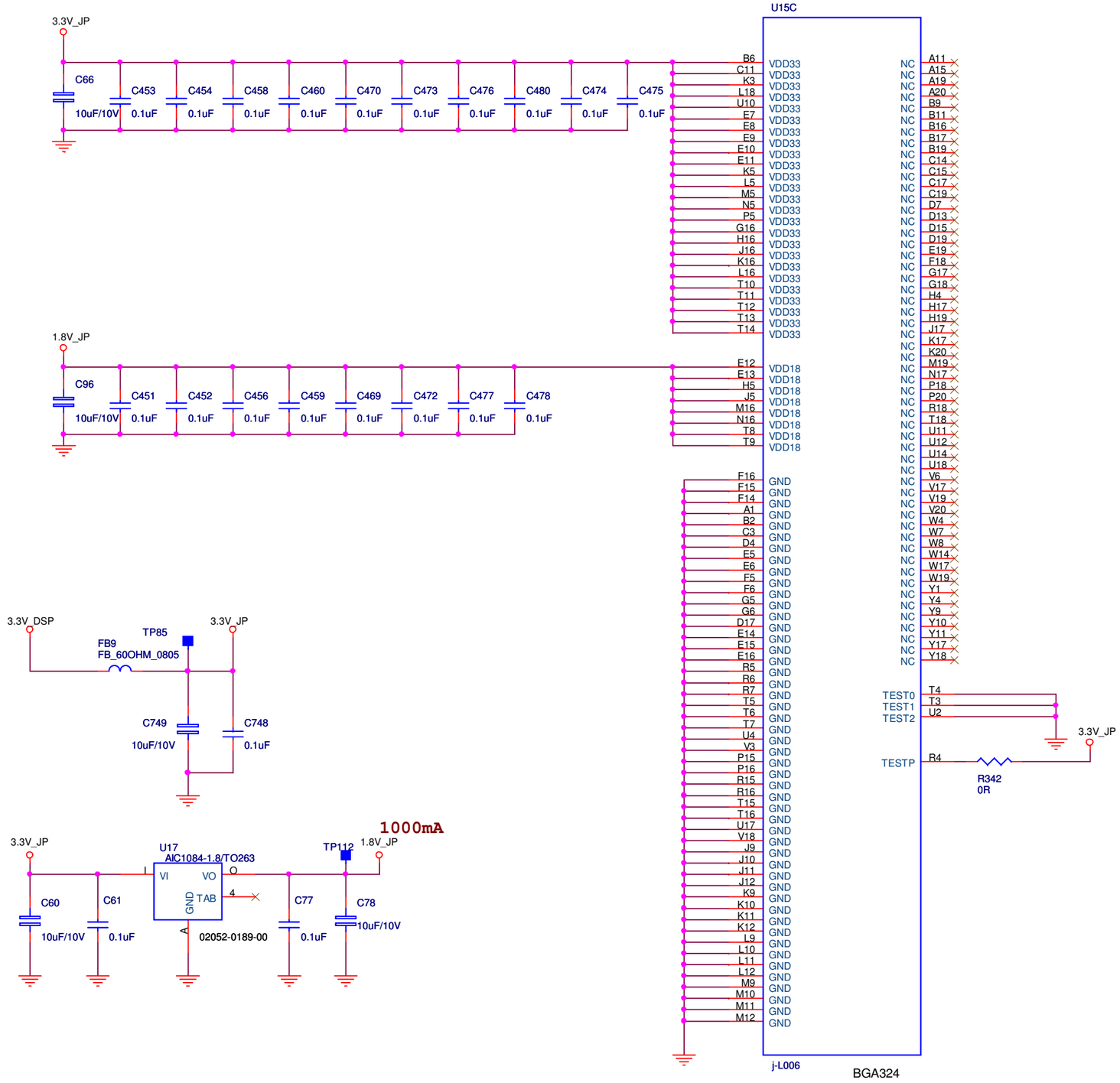
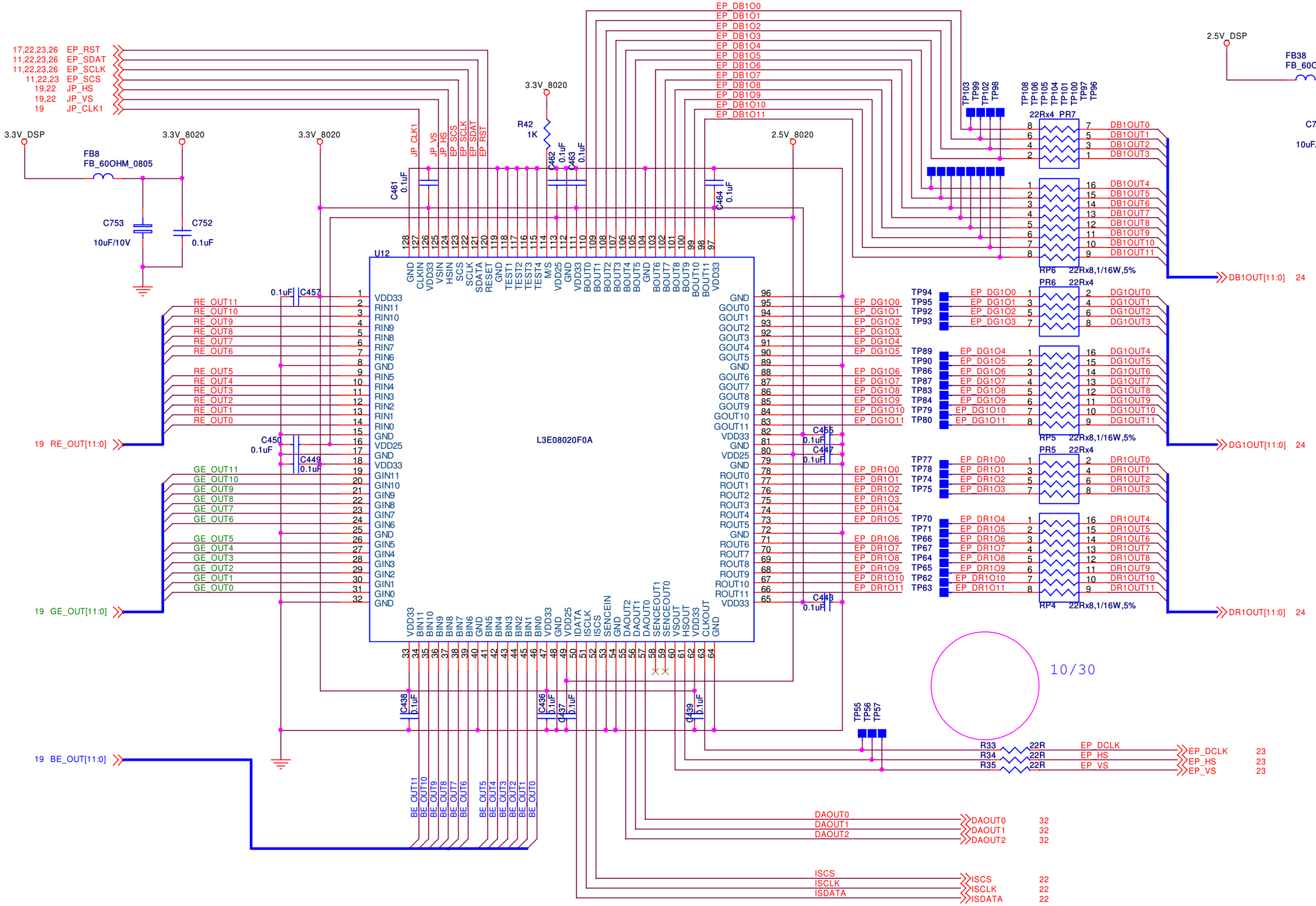
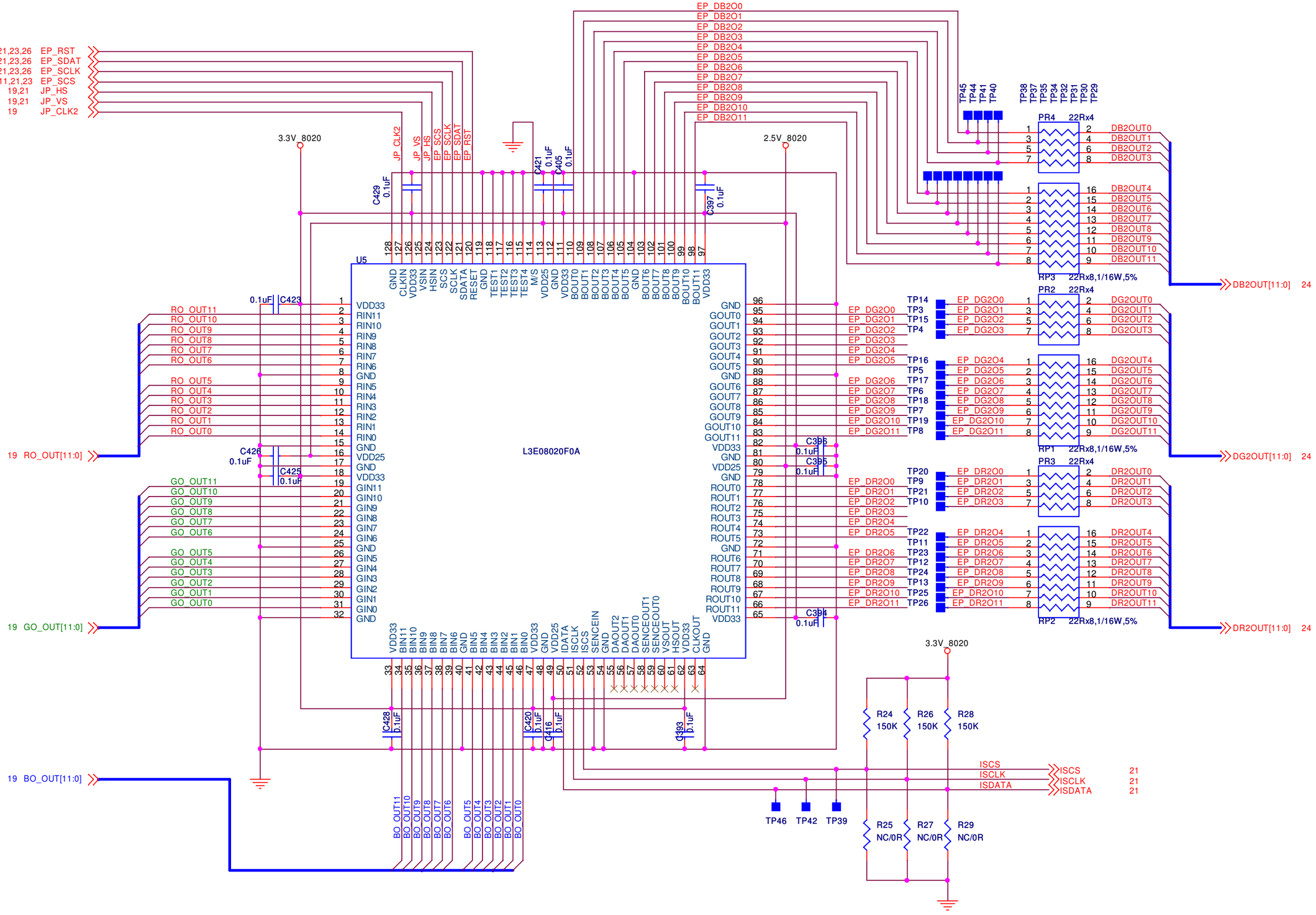
ViewSonic Corporation		
Model		
Title	JEPICO_INOUT	
Date		Rev:



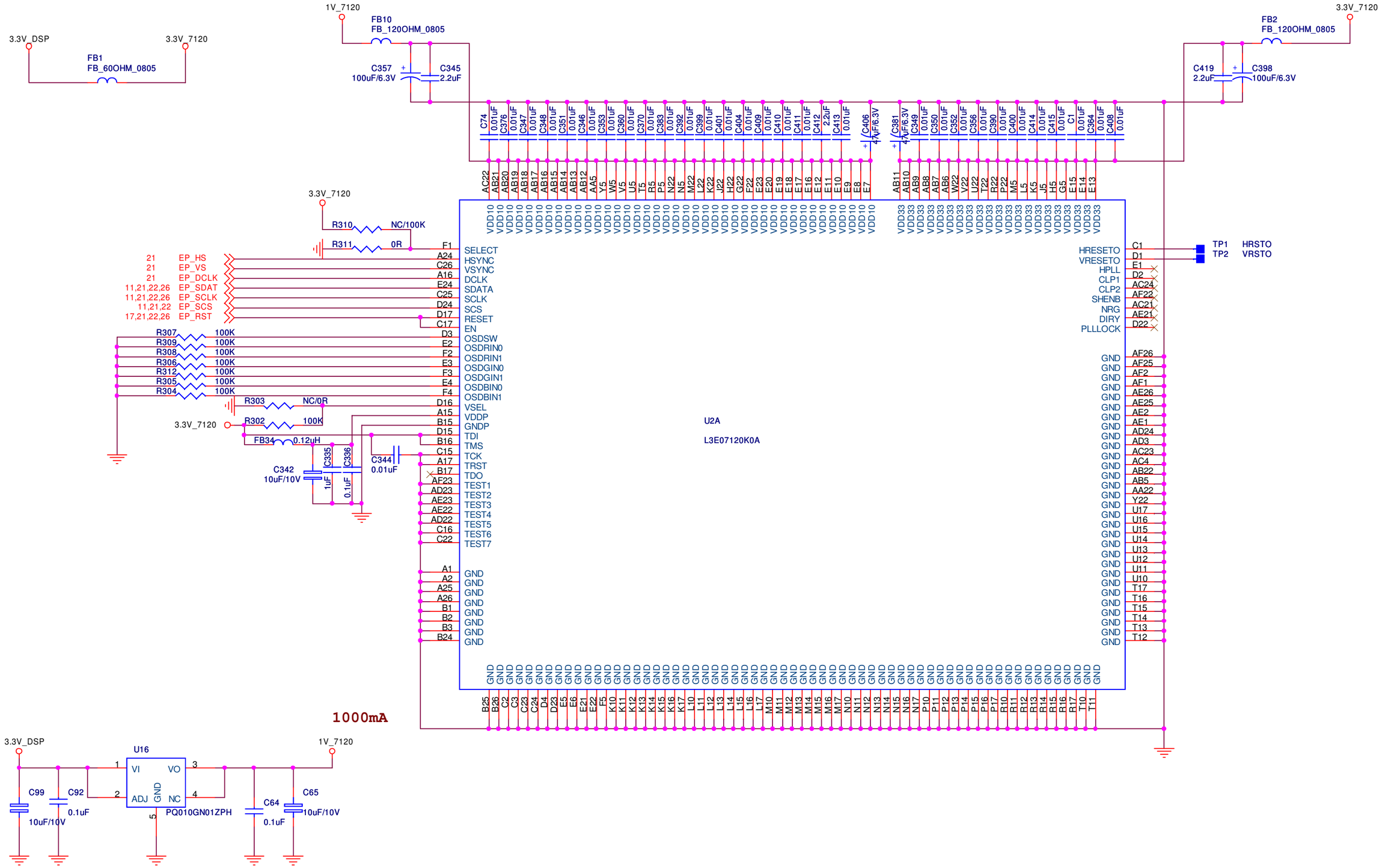
ViewSonic Corporation		
Model		
Title	JEPICO_POWER	
Date		Rev:



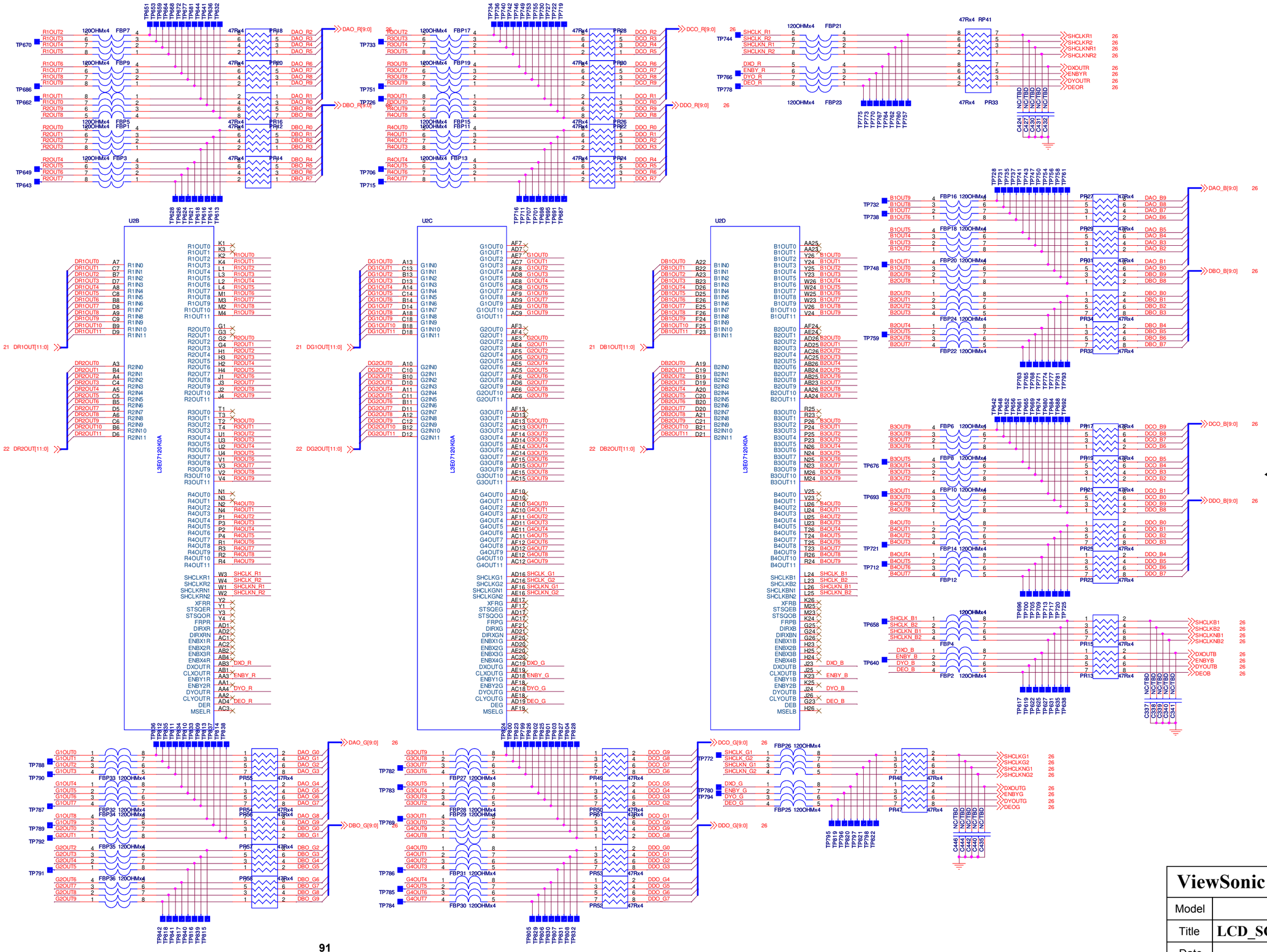
ViewSonic Corporation		
Model		
Title	AUTO_IRIS_EVEN	
Date		Rev:



ViewSonic Corporation		
Model		
Title	AUTO_IRIS_ODD	
Date		Rev:



ViewSonic Corporation		
Model		
Title	LCD_SCALER_PWR	
Date		Rev:



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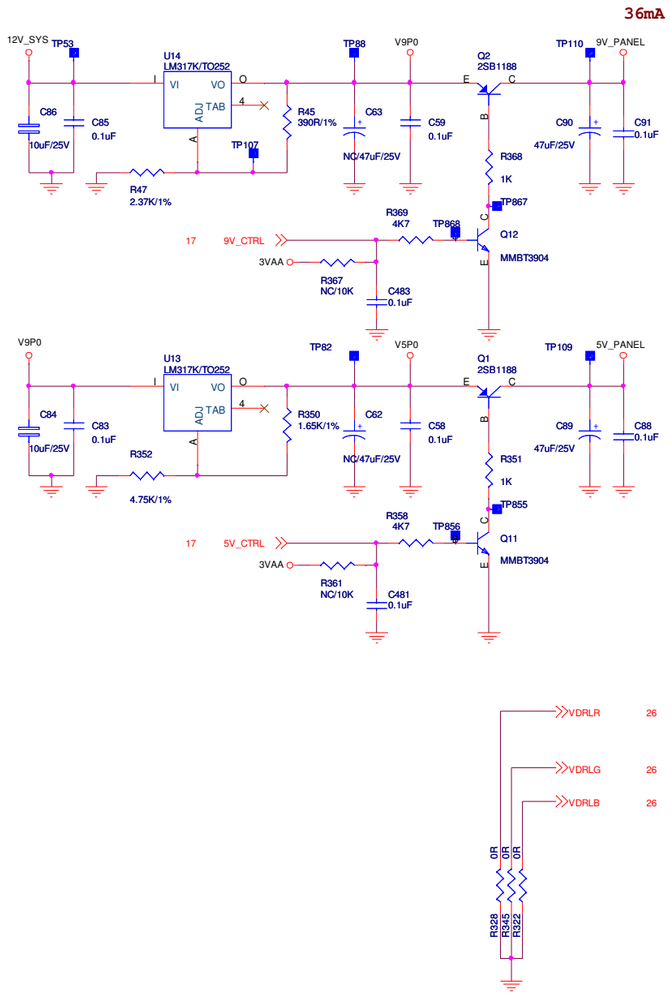
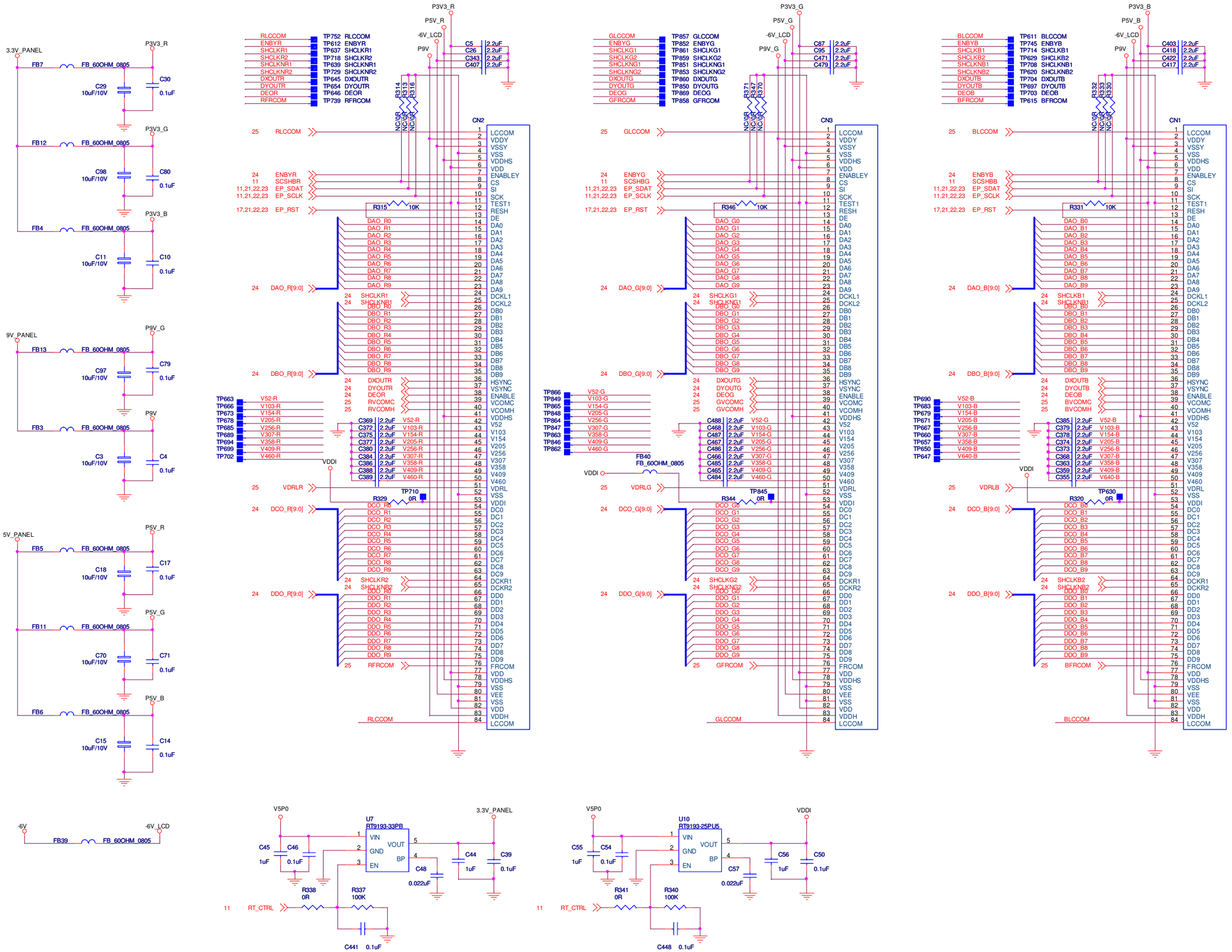
PRO8100-1

ViewSonic Corporation		
Model		
Title	LCD_SCALER_OUT	
Date		Rev:



ViewSonic Corporation		
Model		
Title	LCD_PANEL_OP	
Date		Rev:



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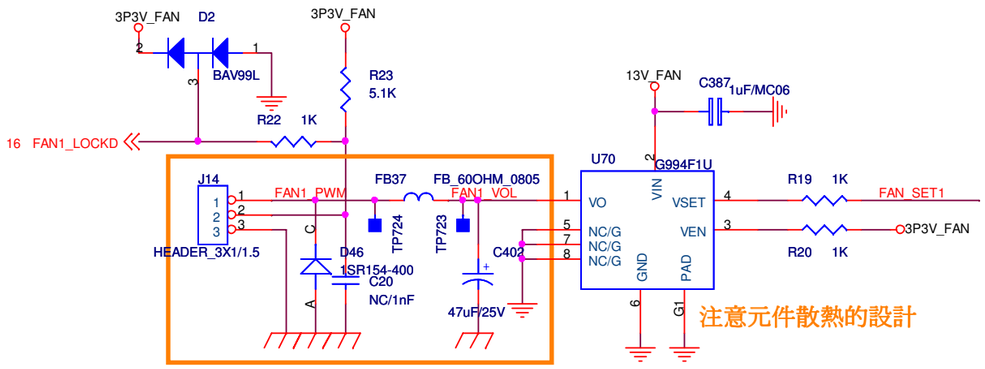
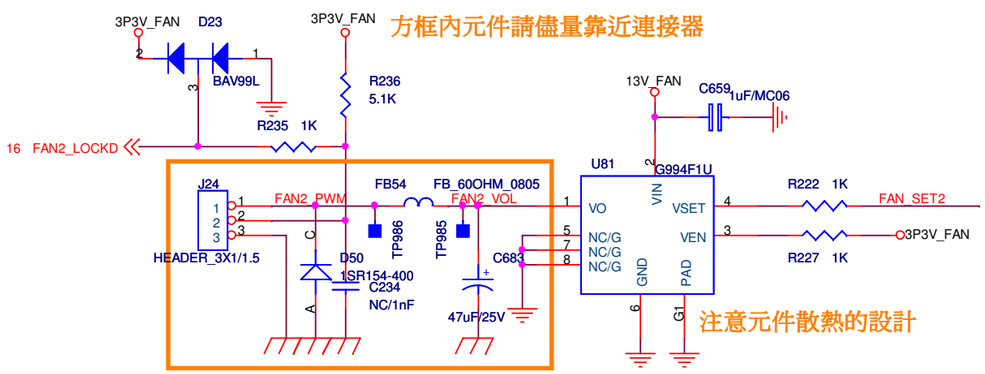
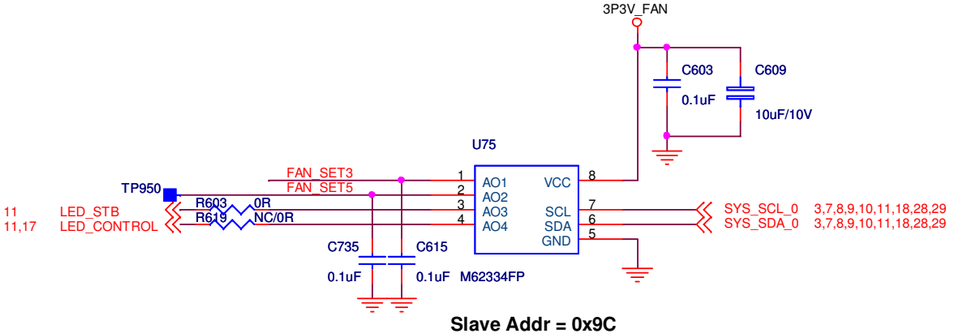
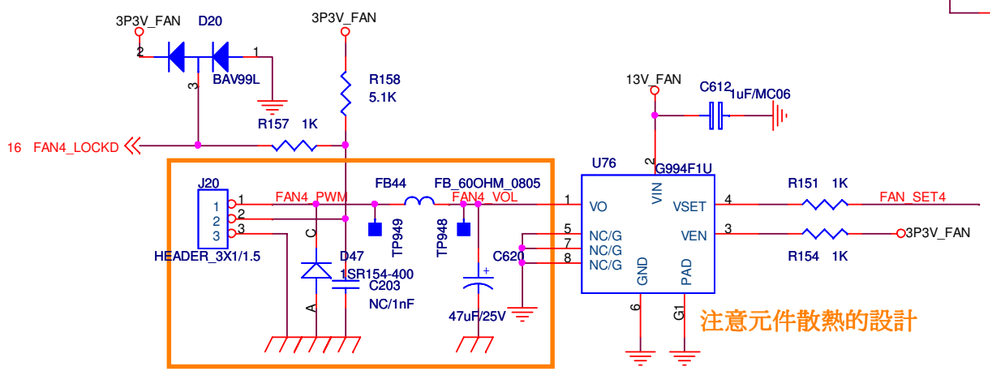
PRO8100-1

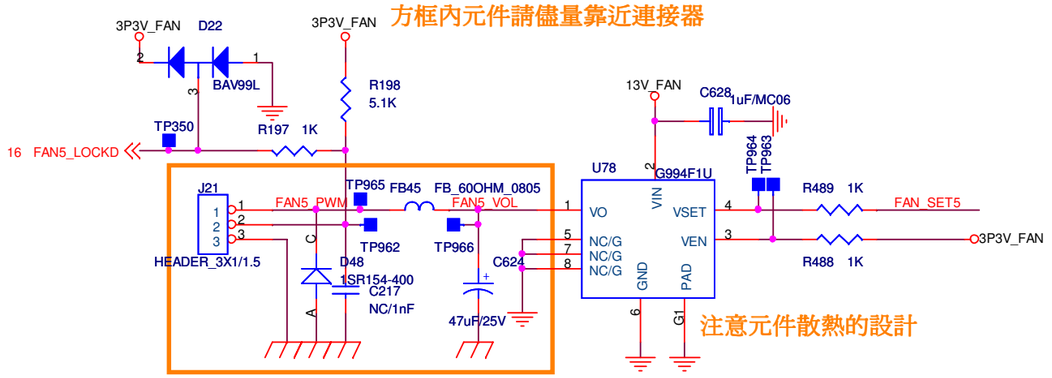
ViewSonic Corporation		
Model		
Title	LCD_PANEL	
Date		Rev:

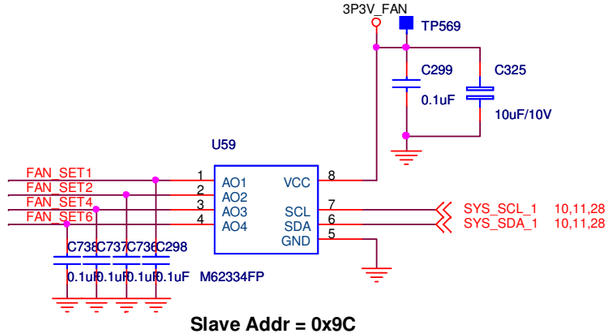


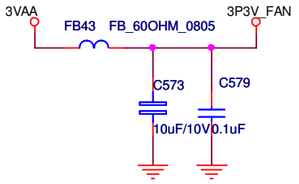




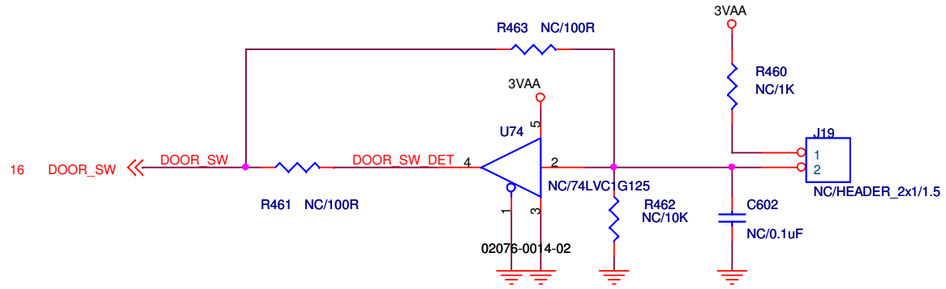






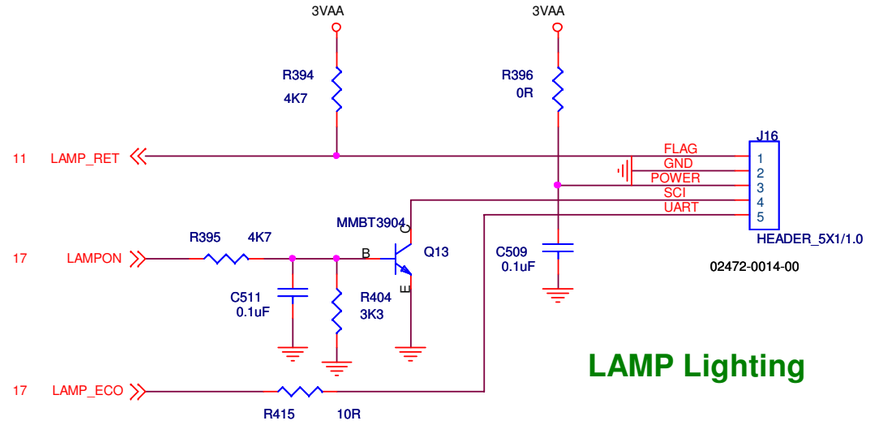


ViewSonic Corporation		
Model		
Title	FAN	
Date		Rev:

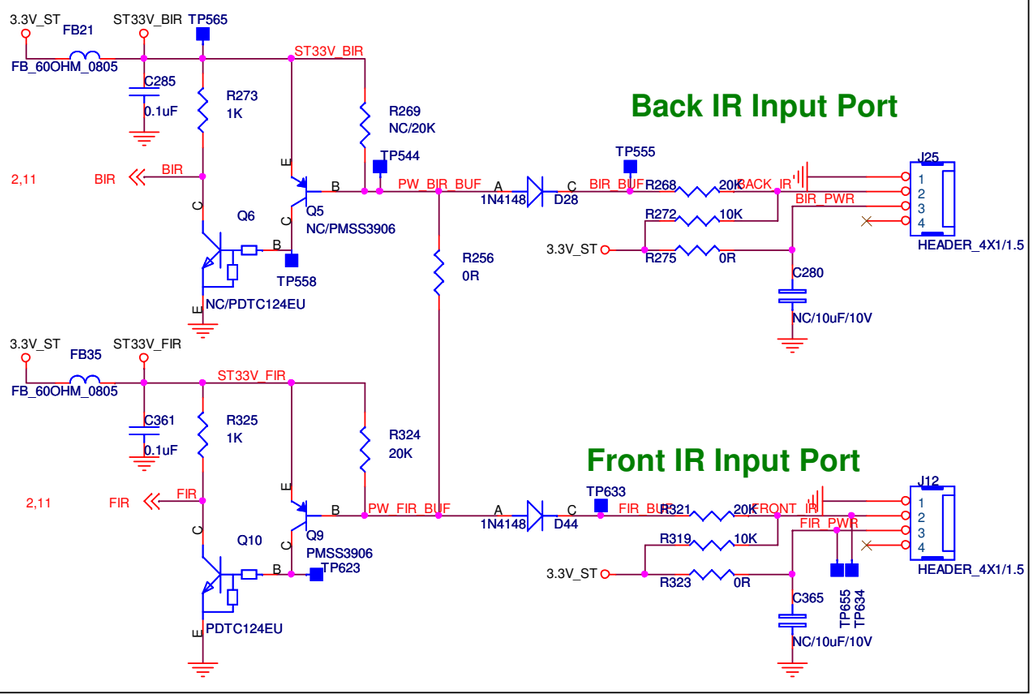


預設 SWITCH 的型式爲 Normal Open

DOOR SWITCH

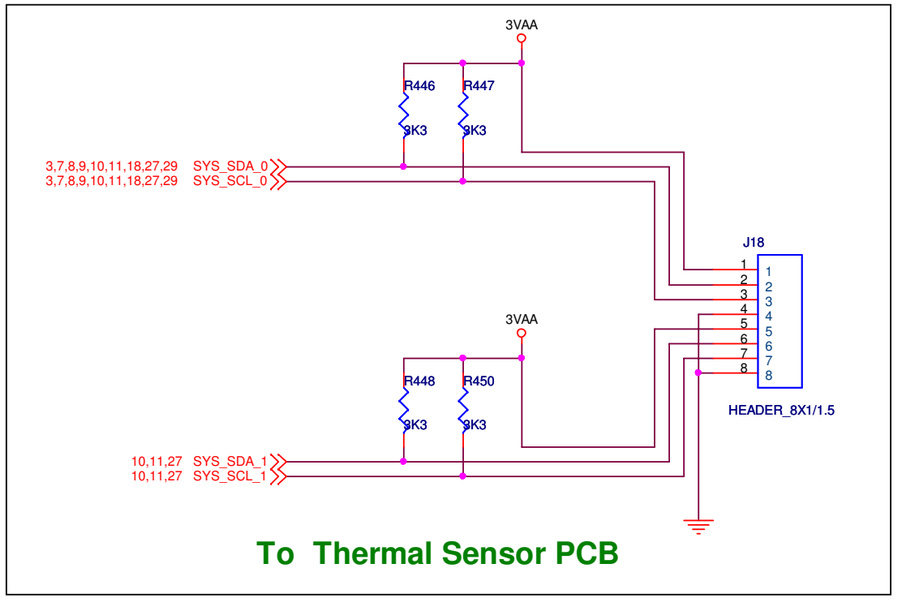


LAMP Lighting



Back IR Input Port

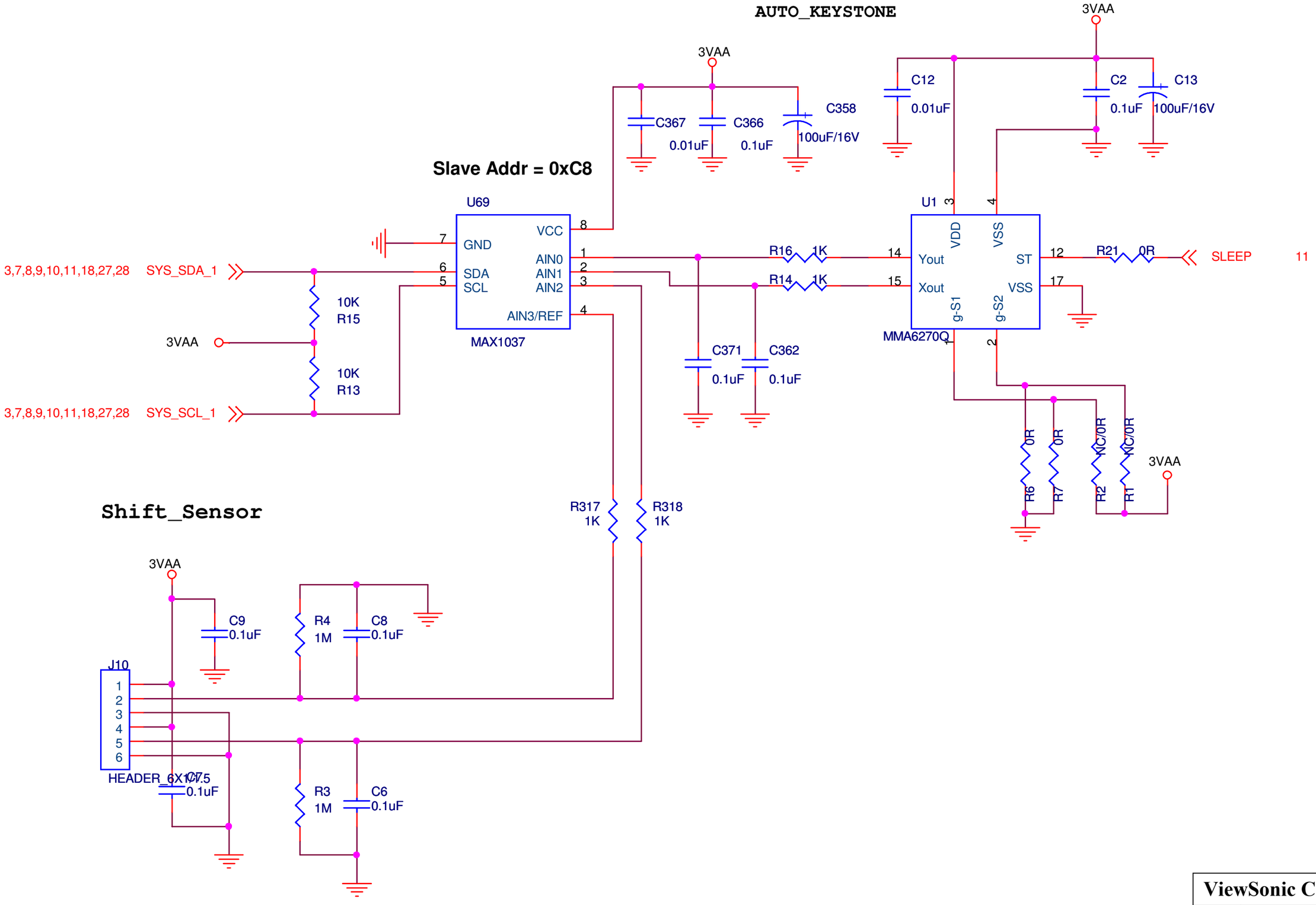
Front IR Input Port



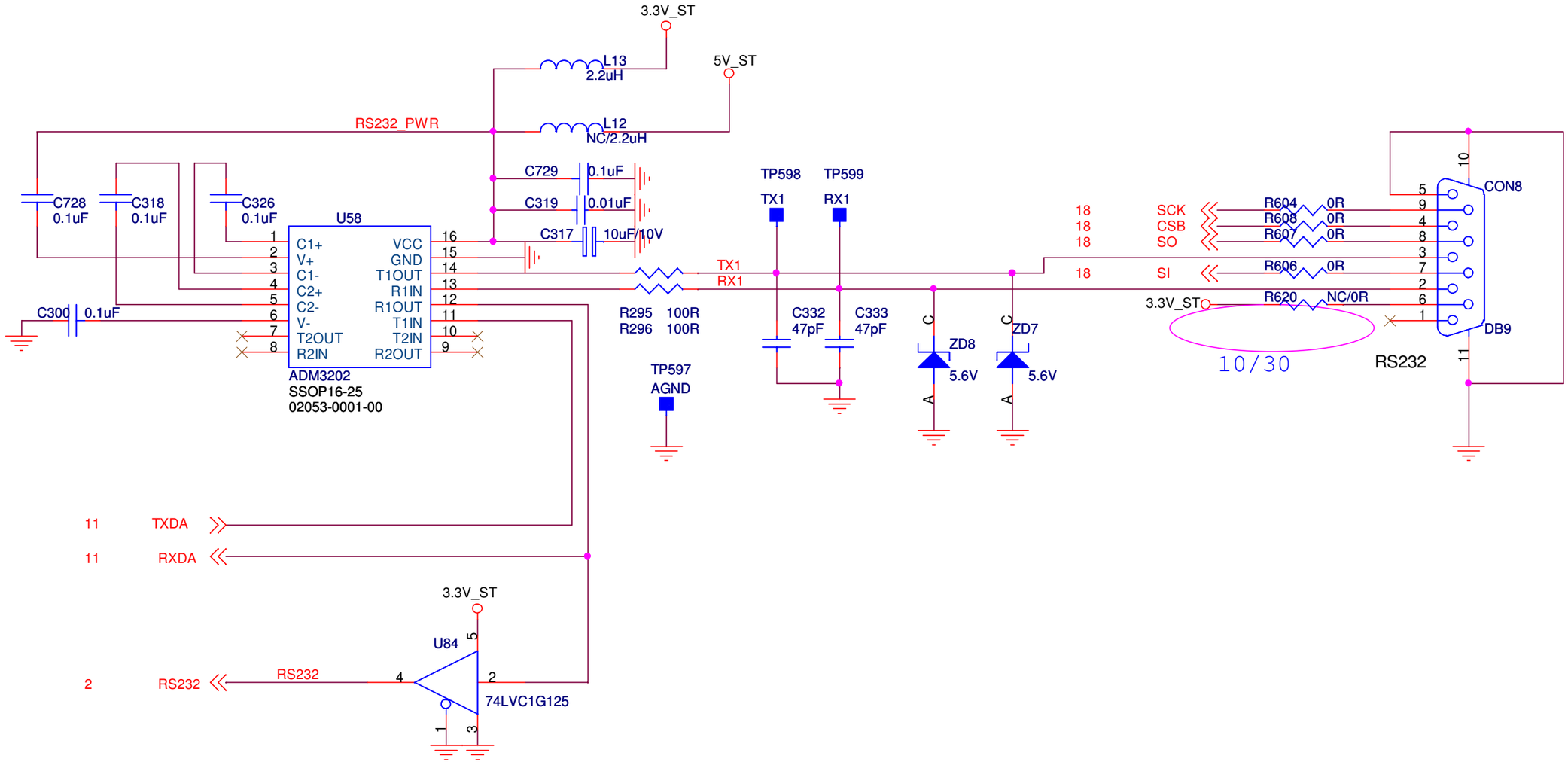
To Thermal Sensor PCB

ViewSonic Corporation		
Model		
Title	LAMP_IR_TEMP	
Date		Rev:

AUTO_KEYSTONE



ViewSonic Corporation		
Model		
Title	AUTO_KETSTONE	
Date		Rev:



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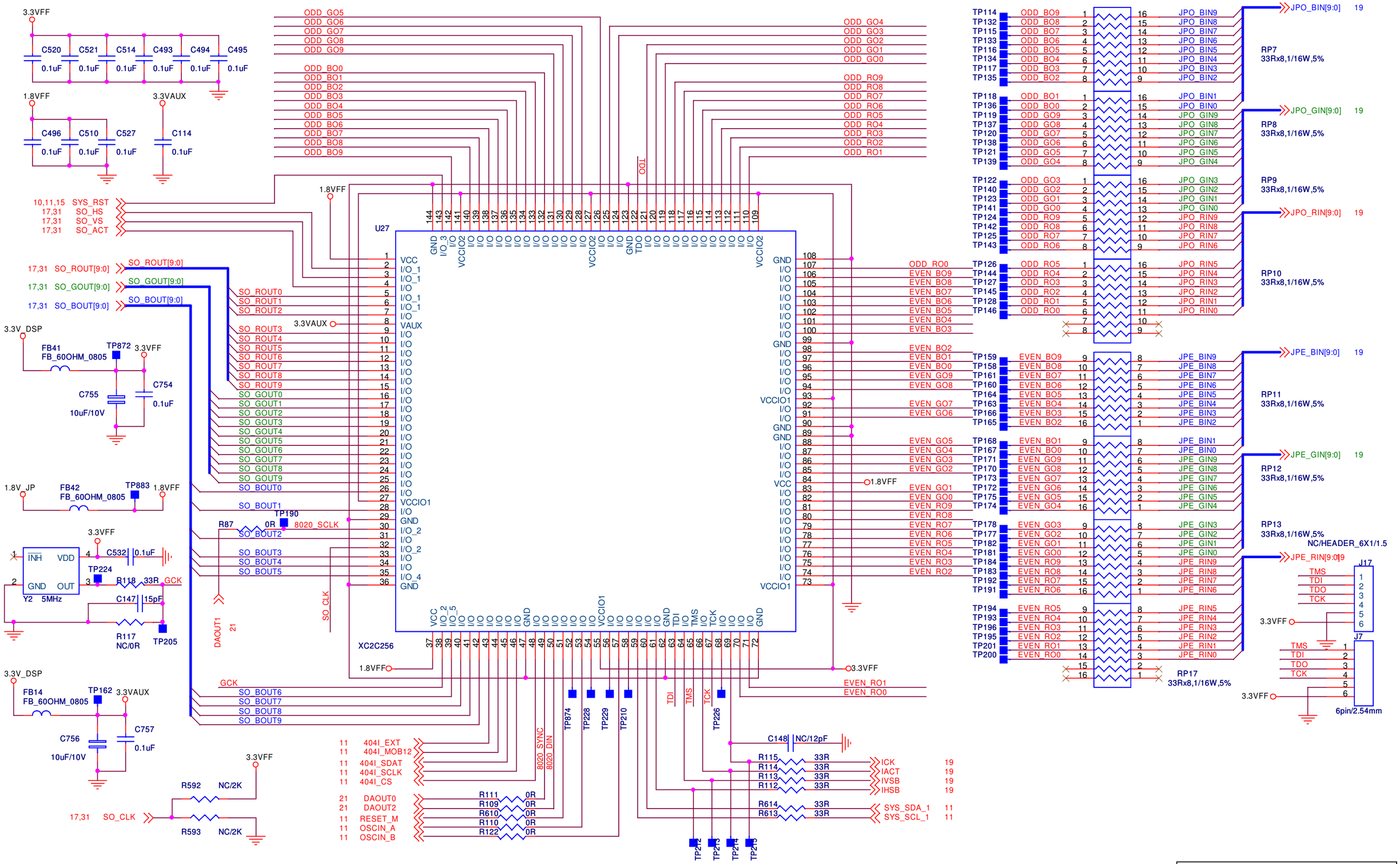
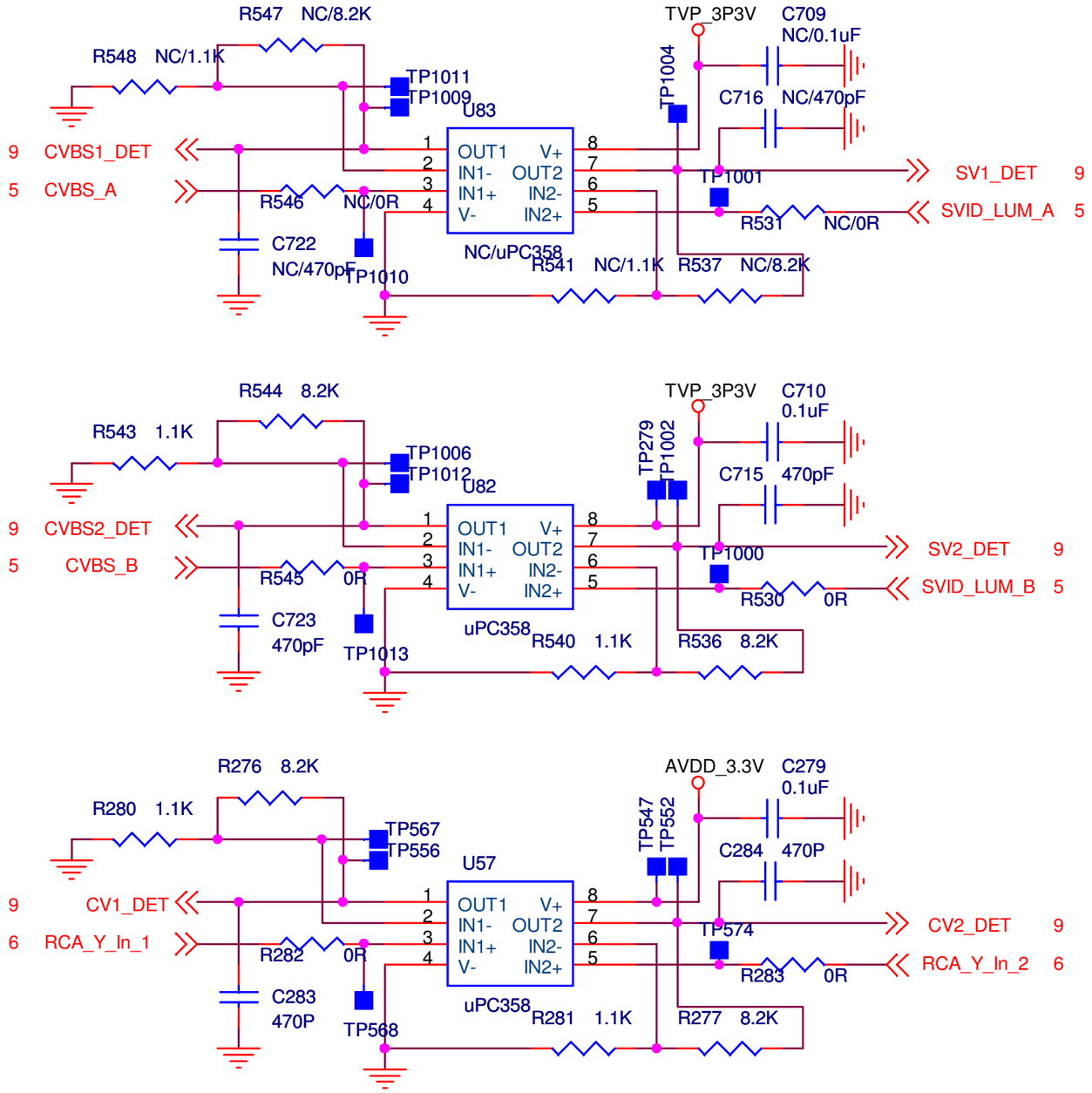
ViewSonic Corporation		
Model		
Title	RS232	
Date		Rev:

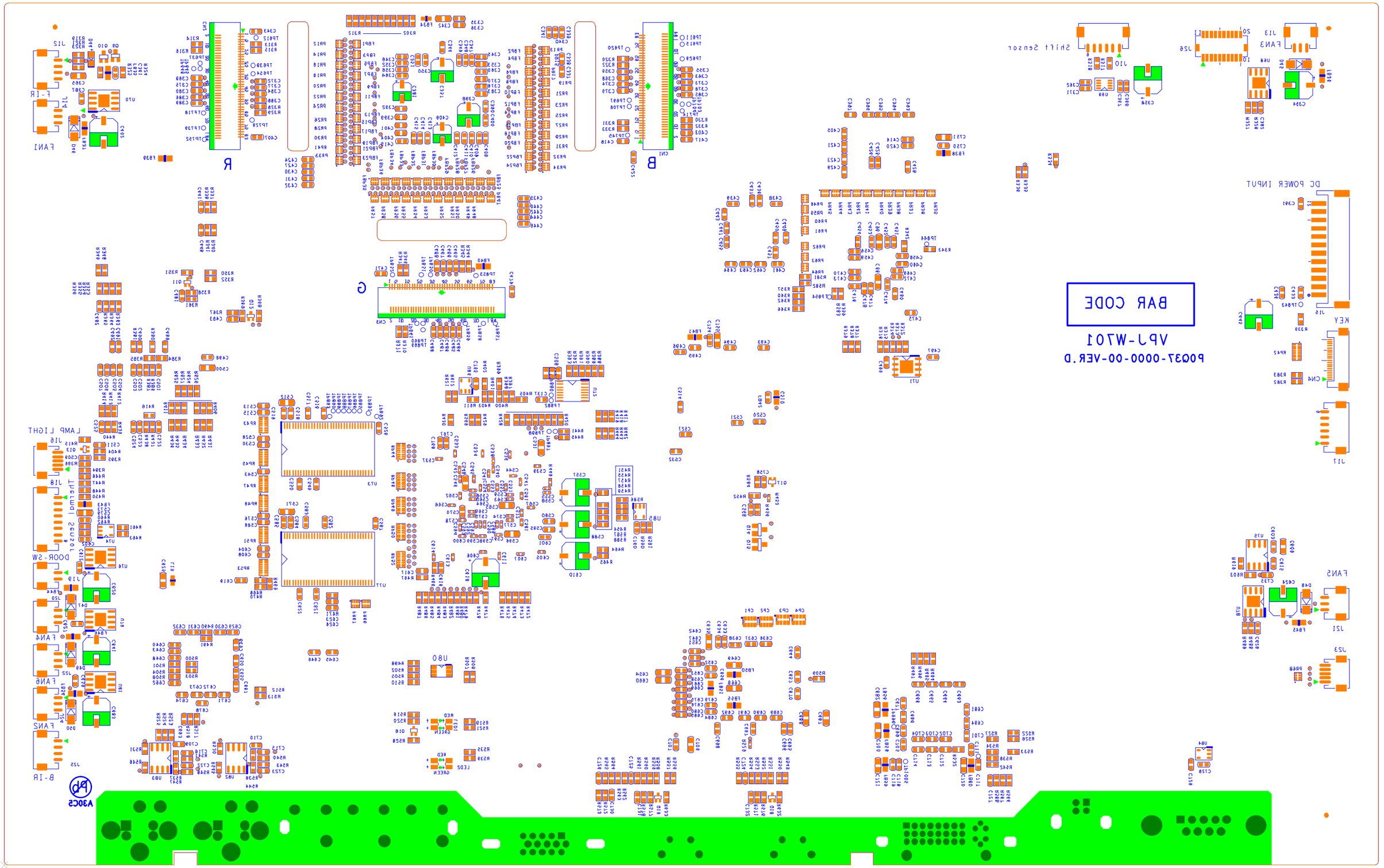


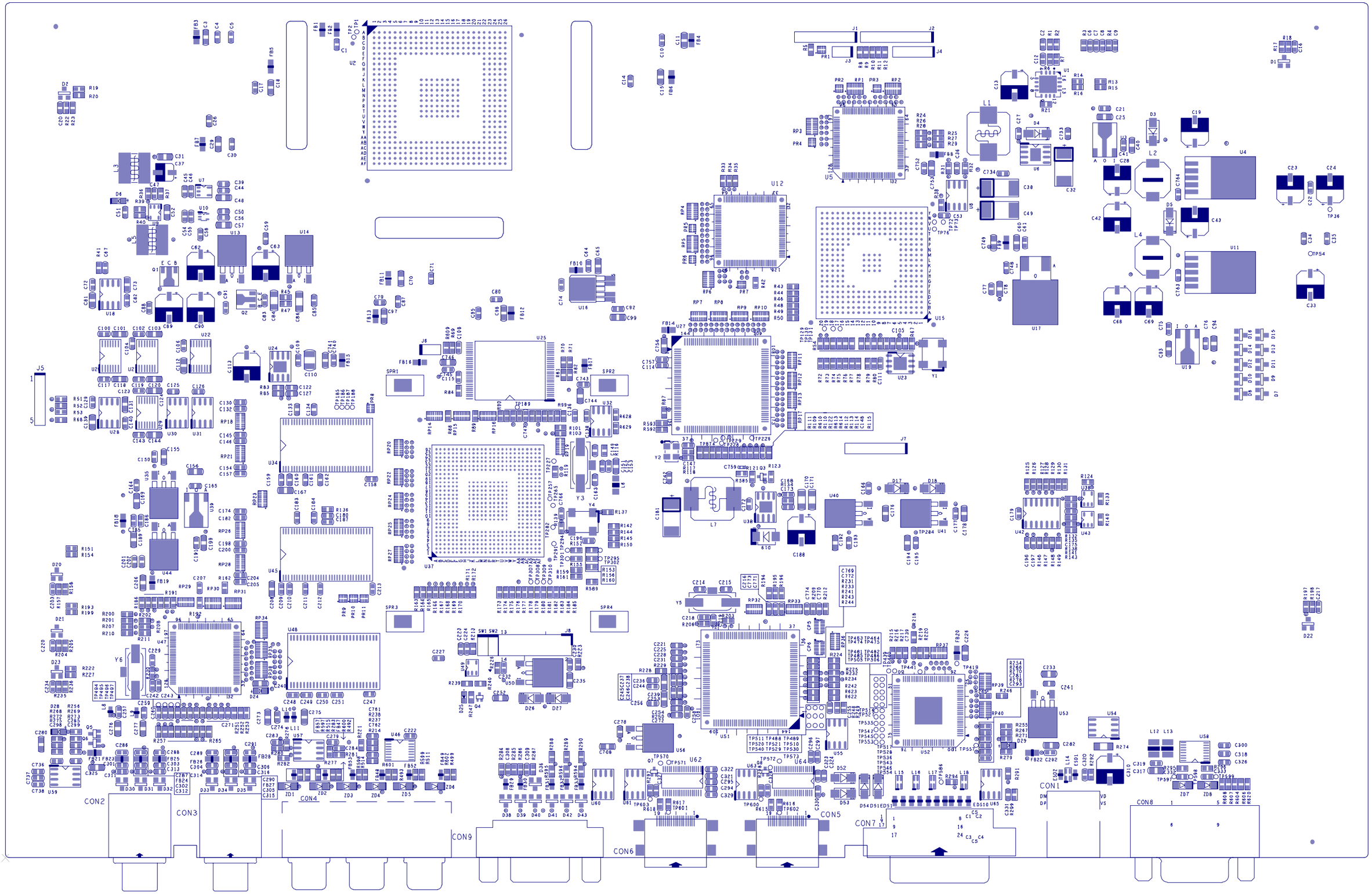
ViewSonic Corporation		
Model		
Title	CPLD	
Date		Rev:



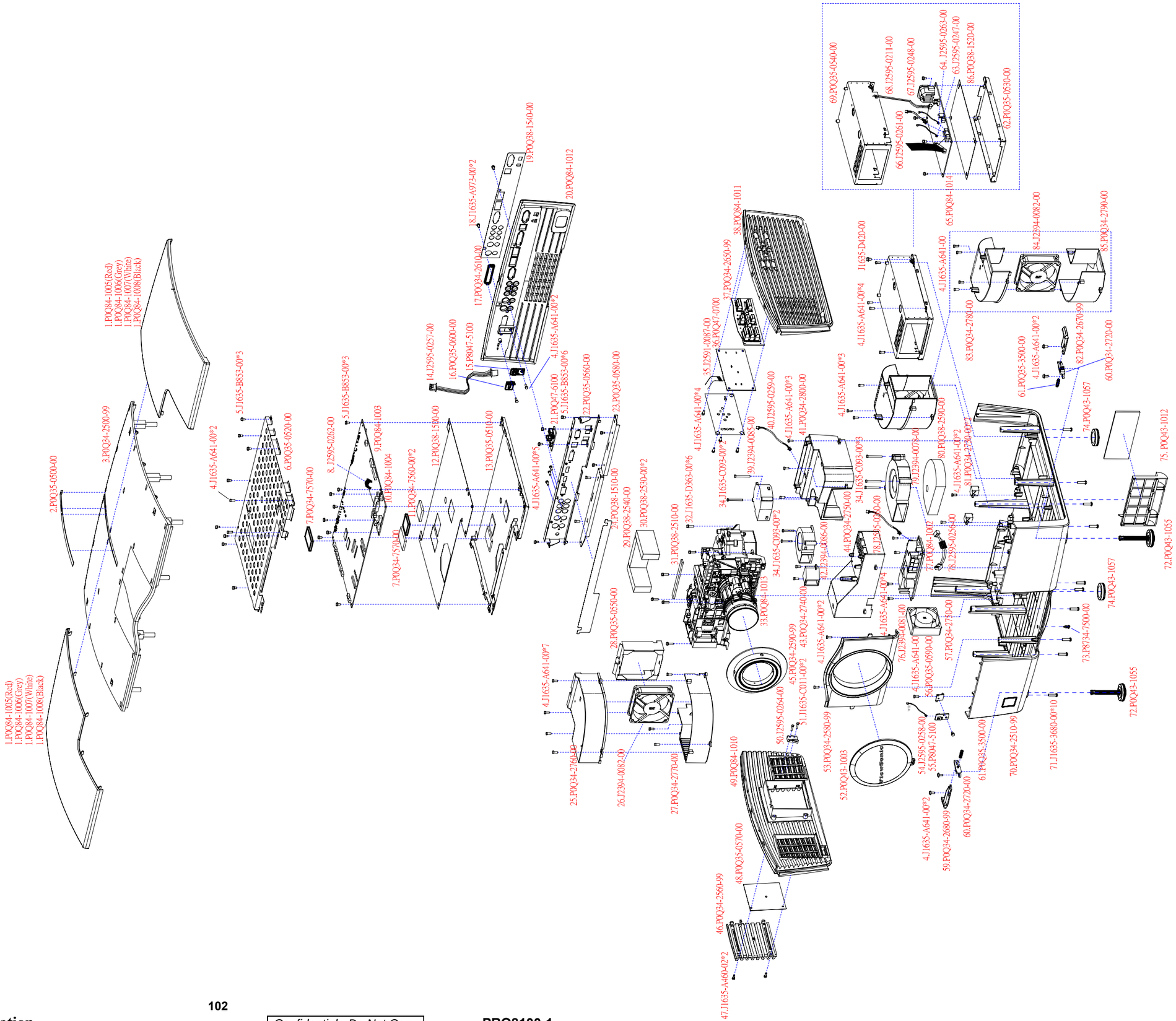
ViewSonic Corporation		
Model		
Title	INPUT_DETECT	
Date		Rev:

8. PCB Layout Diagrams





9. Exploded Diagram and Exploded Parts List



EXPLODED PARTS LIST (PRO8100)

ViewSonic Model Number: VS11856

Rev: 1a

Serial No. Prefix: QQY

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	C-00008806	P0Q84-1005	CHANGE COVER(Red)	1
	C-00008805	P0Q84-1006	CHANGE COVER(Greg)	1
	C-00008807	P0Q84-1007	CHANGE COVER(White)	1
	C-00008804	P0Q84-1008	CHANGE COVER(Black)	1
2	N/A	P0Q35-0500-00	SHEET TOP DOEC	1
3	N/A	P0Q34-2500-99	TOP BODY	1
4	HW-00008414	J1635-A641-00	SCREWS-WASHER	36
5	HW-00008415	J1635-B853-00	SCREWS+WASHER	7
6	N/A	P0Q35-0520-00	SHEET MAIN BOARD TOP	1
7	N/A	P0Q34-7570-00	THERMAL PAD-DRAM	2
8	CB-00008582	J2595-0262-00	20 PIN WIRE(MB-MOTOR BOARD)	1
9	B-00008856	P0Q84-1003	MAIN BOARD	1
10	B-00008857	P0Q84-1004	MOTOR BOARD	1
11	N/A	P0Q34-7560-00	THERMAL PAD-CHIP	2
12	N/A	P0Q38-1500-00	MYLAR MAIN BOARD	1
13	N/A	P0Q35-0510-00	SHEET MAIN BOARD BOTTOM	1
14	CB-00008581	J2595-0257-00	BACK IR WIRE	1
15	B-00008279	P8047-5100	BACK IR BOARD	1
16	N/A	P0Q35-0600-00	SHEET KEY LOCK	1
17	N/A	P0Q34-2610-00	BACK IR COVER	1
18	HW-00008412	J1635-A973-00	SCREW	2
19	N/A	P0Q38-1540-00	IO PLATE-VS	1
20	C-00008809	P0Q84-1012	BACK COVER	1
21	B-00008861	P0Q47-6100	DC JACK	1
22	N/A	P0Q35-0560-00	SHEET TERMINAL	1
23	N/A	P0Q35-0580-00	SHEET LINK	1
24	N/A	P0Q38-1510-00	MYLAR TERMINAL	1
25	N/A	P0Q34-2760-00	AIR TUNNEL LAMP	1
26	M-00008182	J2394-0082-00	FAN	1
27	N/A	P0Q34-2770-00	AIR TUNNEL LAMP-BOTTOM	1
28	N/A	P0Q35-0550-00	SHEET LAMP TUNNEL	1
29	N/A	P0Q38-2540-00	SPONGE PANEL BOTTOM	1
30	N/A	P0Q38-2530-00	SPONGE PANEL LR	2
31	N/A	P0Q38-2510-00	CONDUCTIVE GASKET	1
32	N/A	J1635-D363-00	SCREW+WASHER	6
33	E-00008798	P0Q84-1013	OPTICAL ENGINE	1
34	HW-00008416	J1635-C093-00	SCREW	5
35	N/A	J2591-0087-00	FFC CABLE	1
36	N/A	P0Q47-0700	KEYPAD PCB	1
37	N/A	P0Q34-2650-99	BUTTON	1
38	C-00008811	P0Q84-1011	RIGHT COVER	1
39	M-00008181	J2394-0085-00	FAN	1
40	CB-00008580	J2595-0259-00	THERMAL SENSOR WIRE	1
41	N/A	P0Q34-2800-00	AIR TUNNEL PSC	1
42	M-00008179	J2394-0086-00	FAN	1
43	N/A	P0Q34-2740-00	AIR TUNNEL BURNER	1
44	N/A	P0Q34-2750-00	AIR TUNNEL BALLAST	1
45	N/A	P0Q34-2590-99	LENS CIRCLE	1
46	C-00008812	P0Q34-2560-99	LAMP COVER	1
47	N/A	J1635-A460-02	SCREW	2
48	N/A	P0Q35-0570-00	SHEET LAMP COVER	1
49	C-00008810	P0Q84-1010	LEFT COVER	1
50	CB-00008573	J2595-0264-00	SOFTY SWITCH	1
51	N/A	J1635-C011-00	SCREW	2

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
52	PL-00008311	P0Q43-1003	FILTER	1
53	N/A	P0Q34-2580-99	LENS COVER	1
54	CB-00008583	J2595-0258-00	FRONT IR WIRE	1
55	B-00008279	P8047-5100	FRONT IR BOARD	1
56	N/A	P0Q35-0590-00	SHEET FRONT IR	1
57	N/A	P0Q34-2750-00	AIR TUNNEL BALLAST	1
59	PL-00008305	P0Q34-2680-99	ADUGE BUTTON-R	1
60	PL-00008306	P0Q34-2720-00	FOOT LEVER	2
61	PL-00008308	P0Q35-3500-00	FOOT SPRING	2
62	N/A	P0Q35-0530-00	SHEET POWER BOTTOM	1
63	CB-00008574	J2595-0247-00	2PIN WIRE (POWER BOARD-DC JACK)	1
64	CB-00008578	J2595-0263-00	2PIN WIRE (POWER BOARD-MOTOR BOARD)	1
65	B-00008858	P0Q84-1014	POWER BOARD	1
66	CB-00008577	J2595-0261-00	12PIN WIRE(POWER BOARD-MAIN BOARD)	1
67	CB-00008575	J2595-0248-00	4PIN WIRE (POWER BOARD-DC JACK)	1
68	CB-00008579	J2595-0211-00	THERMAL STATE	1
69	N/A	P0Q35-0540-00	SHEET POWER TOP	1
70	N/A	P0Q34-2510-99	BOTTOM COVER(NO PACKING)	1
71	HW-00008413	J1635-3680-00	SCREW	10
72	PL-00008309	P0Q43-1055	LEG-STICK	2
73	N/A	P8734-7500-00	STRAP RIVET-GINLIAN	1
74	PL-00008307	P0Q43-1057	RUBBER-RING	1
75	M-00008183	P0Q43-1012	FILTER-HOLDER	1
76	M-00008178	J2394-0081-00	FAN	1
77	B-00008860	P0Q84-1002	BALLAST	1
78	CB-00008576	J2595-0256-00	2PIN WIRE(POWER-BALLAST)	1
79	M-00008180	J2394-0078-00	FAN	1
80	N/A	P0Q38-2590-00	SPONGE-BLOWER100	1
81	N/A	P0Q34-2730-00	COVER FILTER GAP	1
82	PL-00008303	P0Q34-2670-99	ADUGE BUTTON-LEFT	1
83	N/A	P0Q34-2780-00	AIR TUNNEL POWER-TOP	1
84	M-00008182	J2394-0082-00	FAN	1
85	N/A	P0Q34-2790-00	AIR TUNNEL POWER-BOTTOM	1
86	N/A	P0Q38-1520-00	MYLAR POWER	1

10. Recommended Spare Parts List

RECOMMENDED SPARE PARTS LIST (PRO8100)

ViewSonic Model Number: VS11856

Rev: 1b

Serial No. Prefix: QQY

Item	Description		ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#
1	**Accessories:**	Cord/Cable (CHINA). YP-03/YC-12 YUNG LI RoHS		A-00008056	J2552-0106-00		
2	**[Adapter, Remote**	Cord/Cable (EUROPE). YP-22/YC-12 YUNG LI RoHS		A-00008057	J2552-0107-00		
3	**Control;Power**	Cord/Cable (UK). YP-61/YC-12 YUNG LI RoHS		A-00008058	J2552-0108-00		
4	**Cord]**	Cord/Cable (USA). UL(YP-12/YC-12) YUNG LI RoHS		A-00008059	J2552-0109-00		
5		Cord/Cable (AUSTRALIA). (SAA)YP-35/YC-12 YUNG LI RoHS		A-00008060	J2552-0053-00		
6		Cord/Cable (SOUTH AFRICA). YP-80/YC-12 YUNG LI RoHS		A-00008233	J2552-0056-01		
7			VS-E080372 Replaced On 11/11/08	~~A-00008273~~	~~P0Q00-RC01~~		
8		Remote Control VPJ-W701		A-00008308	P0Q00-RC02		
9		Replacement Lamp 160W VPJ-W701 RoHS		RLC-032	P0Q84-1001		
10	**PC Board Assembly:**	Sub Board - (Front IR board)		B-00008279	P8047-5100		
11	**[All PCBA]**	Main HD DIPBoard Assembly VPJ-W701 RoHS		B-00008856	P0Q84-1003		
12		Sub Board (Motor Board) VPJ-W701 RoHS		B-00008857	P0Q84-1004		
13		PSU Board VPJ-W701-1 Lite-On RoHS		B-00008858	P0Q84-1014		
14			VS-E080372 Replaced On 11/11/08		~~P0Q47-7000~~		
15		Key-Pad Assy VPJ-W701 RoHS		B-00008859	P0Q47-7100		
16		Ballast PSU Unit 160W VPJ-W701 RoHS		B-00008860	P0Q84-1002		
17		PSU Suppy Board DC 5V RoHS		B-00008861	P0Q47-6100		
18	**Cabinets:**	Top Cover Assemly VPJ-W701 RoHS(Black)		C-00008804	P0Q84-1008		
19	**[Front Panel, All**	Top Cover Assemly VPJ-W701 RoHS(Gray)		C-00008805	P0Q84-1006		
20	**Covers, Base**	Top Cover Assemly VPJ-W701 RoHS(Red)		C-00008806	P0Q84-1005		
21	**Assembly]**	Top Cover Assemly VPJ-W701 RoHS(White)		C-00008807	P0Q84-1007		
22		Bottom Cover Assembly VPJ-W701 RoHS		C-00008808	P0Q84-1009		
23		Cover IO Assembly VPJ-W701 RoHS		C-00008809	P0Q84-1012		
24		Left Cover Assembly VPJ-W701 RoHS		C-00008810	P0Q84-1010		
25		Right Cover VPJ-W701 99 For Painitng RoHS PC+ABS		C-00008811	P0Q84-1011		
26		Lamp Cover VPJ-W701 99 For Painting RoHS ABS		C-00008812	P0Q34-2560-99		
27	**Cables: [All Cables]**	Cable.3RCA TO 3RCA RCA-20060829-01 PAN RoHS		CB-00008571	J2552-0121-00		
28		HDMI Cable 19P TO 19P L1800 P2650-05 PAN RoHS		CB-00008572	J2552-0171-00		
29		Wire Assy CON-SW 1102003-143 MSK RoHS		CB-00008573	J2595-0264-00		
30		Wire CON-CON 1102003-130 MSK 2PIN L185MM 1007#24 RoHS		CB-00008574	J2595-0247-00		
31		Wire CON-CON 1102003-131 MSK 4PIN L185MM 1007#24 RoHS		CB-00008575	J2595-0248-00		
32		Wire CON-CON 1102003-133 MSK 2PIN L245MM 1007#26 RoHS		CB-00008576	J2595-0256-00		
33		Wire CON-CON 1102003-138 MSK 12PIN L150MM 1007#24 RoHS		CB-00008577	J2595-0261-00		
34		Wire CON-CON 1102003-142 MSK 2PIN L390MM 1015#22 RoHS		CB-00008578	J2595-0263-00		
35		Wire CON-THERMOSTAT 01800096R 2PIN L420MM 1015#20		CB-00008579	J2595-0211-00		
36		Wire Assy CON-CON 1102003-136 MSK RoHS		CB-00008580	J2595-0259-00		
37		Wire CON-CON 1102003-134 MSK 4PIN L60MM 1571#28 RoHS		CB-00008581	J2595-0257-00		
38		Wire CON-CON 1102003-139 MSK 20PIN L40MM 1571#28 RoHS		CB-00008582	J2595-0262-00		
39		Wire CON-CON 1102003-135 MSK 4PIN L275MM 1571#28 RoHS		CB-00008583	J2595-0258-00		
40		Wire CON-CON 1102003-137 MSK 5PIN L310MM 1571#28 RoHS		CB-00008584	J2595-0260-00		
41	**Documentation:**	Warning Label Premier PD-X770 GLOBAL RoHS		DC-00008696	P2838-5001-00		
42	**[Quick Start Guide,**		Replaced On 11/11/08 Per EC#VS-E080372	~~DC-00008779~~	~~P0Q39-4000-00~~		
43	**CD Rom; Label]**	Quick Start Guide (Global) RoHS		DC-00009026	P0Q39-4000-01		
44			Replaced On 11/11/08 Per EC#VS-E080372		~~P0Q39-4001-00~~		
45		User Guide(USA)		DC-00008783	P0Q39-4001-01		
46		User Guide(CN,TW)		DC-00008784	P0Q39-4004-00		
47		User Guide (CN,TW)	Added On 11/11/08 Per EC#VS-E080372	DC-00009294	P0Q39-4004-02		
48		User Guide (EU)	Added On 11/11/08 Per EC#VS-E080372	DC-00009295	P0Q39-4003-02		
49		User Guide(EU)		DC-00008785	P0Q39-4003-00		
50	**Electronic**	Optical-Engine Assy VPJ-W701 RoHS		E-00008798	P0Q84-1013		
51	**Components: [CRT-**		Replaced On 11/11/08 Per EC#VS-E080372	~~E-00008799~~	~~P0Q47-5000~~		
	EEPROM, Fly Back Transformer, Microprocessor]						
52	**[LCD TV-Panel]**	Thermal Sensor SMT PCB ASY VPJ-W701 RoHS		E-00009204	P0Q47-5100		
53	**Hardware: [Screw,**	Screw. TP 1.7 5 A 0.5 D=3 Black NONE RoHS		HW-00008411	J1635-0480-00		
54	**Bracket, Hinge,**	Screw M 3 6 A 1.9 D=6.3 Black NONE RoHS		HW-00008412	J1635-A973-00		
55	**Washer]**	Screw TP 4 16 A 2.5 D=6.8 NI NONE RoHS		HW-00008413	J1635-3680-00		
56		Screw-Washer TP 3 8 D 2 D=5.5 NI NONE SUS RoHS		HW-00008414	J1635-A641-00		
57		Screw-Washer M 3 6 D 2 D=5.3 NI NONE SUS RoHS		HW-00008415	J1635-B853-00		
58		Screw-Washer TP 3 30 D 2 D=5.3 NI NONE SUS RoHS		HW-00008416	J1635-C093-00		
59		Fan 2408NL-04W-B29(L=200MM) RoHS		M-00008178	J2394-0081-00		
60		SMD spring		HW-00008419	J2349-0040-00		
61	**Miscellaneous:**	Fan BM6025-04W-B49(L=270MM) RoHS		M-00008179	J2394-0086-00		
62	**[Switch, Fan, Logo]**	Fan BFB1112L-R00(L=280MM) RoHS		M-00008180	J2394-0078-00		
63		Fan BM6025-04W-B49(L=340MM) RoHS		M-00008181	J2394-0085-00		
64		Fan 3110KL-04W-B29(L=140MM) RoHS*2		M-00008182	J2394-0082-00		
65		Filter Holder VPJ-W701 RoHS		M-00008183	P0Q43-1012		
66	**Packing Material:**	PE Bag. No Brand Global RoHS		P-00008410	J4039-R157-01		
67	**[Box, Foam, Bags]**	Bag -Desiccant No Brand 50G-CLAY RoHS	VS-E080372 Replaced On 11/27/08	P-00008880	J4039-R128-01		
68		Carton Global RoHS in and Out		P-00008891	P0Q39-6000-00		
69		EPE-Left NO VPJ-W701 For Body RoHS		P-00008893	P0Q39-1500-00		
70		EPE-Right NO VPJ-W701 For Body RoHS		P-00008894	P0Q39-1510-00		
71		Carton LB Global RoHS		P-00008895	P0Q38-5001-00		
72		Accessary Box Global RoHS		P-00008896	P0Q39-6800-00		
73		Micro-fabric Cleaning Cloth		P-00008903	P0Q39-3001-00		
74	**Plastics: [Pedestal,**	Button-Right Aduge VPJ-W701 99 For Painting RoHS ABS		PL-00008305	P0Q34-2680-99		
75	**Plate, Rubber Foot,**	Foot Lever VPJ-W701 00 No Painting RoHS PC+ABS		PL-00008306	P0Q34-2720-00		
76	**Button, etc.]**	Rubber Ring Assy VPJ-W701 RoHS		PL-00008307	P0Q43-1057		
77		Foot Spring VPJ-W701 00 No Painting RoHS		PL-00008308	P0Q35-3500-00		
78		Leg-Stick Assy VPJ-W701 RoHS		PL-00008309	P0Q43-1055		
79		Foot Spacer VPJ-W701 RoHS		PL-00008310	P0Q38-1550-00		
80		Button-Left Aduge VPJ-W701 99 For Painting RoHS ABS		PL-00008303	P0Q34-2670-99		
81		VS Dust Cover		PL-00008314	P0Q39-3000-00		
82		Lens Cap Assy VPJ-W701 RoHS		PL-00008311	P0Q43-1003		

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

BOM LIST (PRO8100)

ViewSonic Model Number: VS11856
Rev: 1a
Serial No. Prefix: QQY

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	N/A	P0Q43-1000	TOP-COVER-ASY VPJ-W701 ROHS			1
2	N/A	P0Q43-1050	TOP-BODY-ASY VPJ-W701 ROHS			1
3	N/A	P0Q38-2520-00	SENSOR SHIELDING VPJ-W701 ROHS			1
4	N/A	P0Q34-2530-99	CHANGE COVER-R VPJ-W701 99 FOR PAINTING ROHS ABS			1
5	N/A	P0Q34-2530-00	CHANGE COVER-R VPJ-W701 00 NO PAINTING ROHS ABS			1
6	N/A	P0Q34-2520-99	CHANGE COVER-L VPJ-W701 99 FOR PAINTING ROHS ABS			1
7	N/A	P0Q34-2520-00	CHANGE COVER-L VPJ-W701 00 NO PAINTING ROHS ABS			1
8	N/A	P0Q35-0500-00	SHEET TOP DECO VPJ-W701 00 NO PAINTING ROHS			1
9	N/A	P0Q43-1008	POWER-ASY VPJ-W701 ROHS			1
10	HW-00008415	J1635-B853-00	SCREW+WASHER M 3 6 D 2 D=5.3 NI NONE SUS ROHS			4
11	N/A	P0Q47-8100	POWER BOARD VPJ-W701-1 LITE-ON ROHS			1
12	N/A	P0Q38-1520-00	MYLAR POWER VPJ-W701 ROHS			1
13	N/A	P0Q35-0010-00	THERMAL-BREAK-CLAMP VPJ-W701 00 NO PAINTING ROHS			1
14	N/A	P0Q34-7500-00	PINGOOD-SA-1316A VPJ-W701 00 NO PAINTING ROHS NYLON			1
15	HW-00008093	J1635-D420-00	SCREW-WASHER M 4 6 A 2.6 D=7 NI NONE SUS ROHS			1
16	CB-00008579	J2595-0211-00	WIRE CON-THERMOSTAT 01800096R AVERTRONICS 2PIN L420MM 1015#20 ROHS			1
17	N/A	P0Q35-0530-00	SHEET POWER BOT VPJ-W701 00 NO PAINTING ROHS			1
18	N/A	P0Q35-0540-00	SHEET POWER TOP VPJ-W701 00 NO PAINTING ROHS			1
19	CB-00008575	J2595-0248-00	WIRE CON-CON 1102003-131 MSK 4PIN L185MM 1007#24 ROHS			1
20	CB-00008574	J2595-0247-00	WIRE CON-CON 1102003-130 MSK 2PIN L185MM 1007#24 ROHS			1
21	N/A	P0Q38-2610-00	CONDUCTIVE GASKET POWER VPJ-W701 ROHS			1
22	CB-00008577	J2595-0261-00	WIRE CON-CON 1102003-138 MSK 12PIN L150MM 1007#24 ROHS			1
23	CB-00008576	J2595-0256-00	WIRE CON-CON 1102003-133 MSK 2PIN L245MM 1007#26 ROHS			1
24	CB-00008573	J2595-0264-00	WIRE ASSY CON-SW 1102003-143 MSK ROHS			1
25	CB-00008578	J2595-0263-00	WIRE CON-CON 1102003-142 MSK 2PIN L390MM 1015#22 ROHS			1
26	N/A	P0Q34-7640-00	PINGOOD-DS-12 VPJ-W701 00 NO PAINTING ROHS NYLON			1
27	N/A	P0Q34-7510-00	PINGOOD-CH-01B VPJ-W701 00 NO PAINTING ROHS NYLON			1
28	N/A	P0Q43-1007	MAIN-BOARD-ASY VPJ-W701 ROHS			1
29	N/A	P0Q38-1510-00	MYLAR TERMINAL VPJ-W701 ROHS			1
30	N/A	P0Q38-2540-00	SPONGE PANEL BOT VPJ-W701 ROHS			1
31	HW-00008415	J1635-B853-00	SCREW+WASHER M 3 6 D 2 D=5.3 NI NONE SUS ROHS			19
32	HW-00004838	82035-2510-00	HEXAGON-HEAT-BOLT-4.8 PJ-X900 3M ROHS			4
33	N/A	P0Q34-7560-00	THERMAL PAD-CHIP VPJ-W701 00 NO PAINTING ROHS SILICON			2
34	N/A	P0Q38-2530-00	SPONGE PANEL LR VPJ-W701 ROHS			2
35	N/A	P0Q34-7510-00	PINGOOD-CH-01B VPJ-W701 00 NO PAINTING ROHS NYLON			2
36	N/A	P0Q38-1500-00	MYLAR MAIN BOARD VPJ-W701 ROHS			1
37	B-00008861	P0Q47-6100	DC JACK DIP PCB ASY VPJ-W701 ROHS			1
38	N/A	J2474-0099-00	CONN POWER JACK. DC-220-001-00-0 SUN RISE ROHS			1
39	N/A	P0Q47-6000	DC JACK SMT PCB ASY VPJ-W701 ROHS			1
40	N/A	J2251-0476-08	ELECTROLYSIC CAP SMD 47UF 25V D6.3*L5.4 ALU 20% UWR1E470MCL1GB NICHICON. ROHS			2
41	N/A	J2003-0020-00	SCHOTTKY DIODE. SMA-S SSM34APT CHENMKO ROHS			2
42	N/A	J2002-0022-01	ZENER DIODE. SOD-523 VZ=5.1V MMSZ5231BPT CHENMKO ROHS			1
43	N/A	J2153-0102-01	CHIP RESISTOR 1K 0603 5% 0.1W ROHS			2
44	N/A	J2002-0043-00	ZENER DIODE. SOD-523 VZ=12V MMSZ5242BPT CHENMKO ROHS			1
45	N/A	J2314-0010-00	CHIP FERRITE BEAD 60 OHM 0805 T1.1MM 25% PBY201209T-600Y-N CHILISIN ROHS			2
46	N/A	J2472-0075-00	CONN WIRE 4PIN 88298-040N ACES ROHS			1
47	N/A	P0Q37-0600-00	DC JACK PCB 2 FR4 1.6MM A VPJ-W701 ROHS			1
48	N/A	J2472-0019-00	CONN WIRE. 2PIN S2B-PH-SM4-TB(LF)(SN) JST ROHS			1
49	N/A	J2203-0105-06	CERAMIC CAP SMD. 1UF 25V 0603 T0.9MM X5R 10% ROHS			4
50	N/A	J2474-0147-00	CONN POWER JACK 2DC-0033H102 SINGATRON ROHS			1
51	N/A	P0Q34-7570-00	THERMAL PAD-DRAM VPJ-W701 00 NO PAINTING ROHS SILICON			2
52	N/A	P0Q35-0520-00	SHEET MAIN BOARD TOP VPJ-W701 00 NO PAINTING ROHS			1
53	N/A	P0Q35-0560-00	SHEET TERMINAL VPJ-W701 00 NO PAINTING ROHS			1
54	N/A	P0Q35-0510-00	SHEET MAIN BOARD BOT VPJ-W701 00 NO PAINTING ROHS			1
55	N/A	P0Q47-0100	MAIN HD DIP PCB ASY VPJ-W701 ROHS			1
56	N/A	J2474-0061-01	CONN USB JACK. 2UB-00040WT0 SINGATRON ROHS			1
57	N/A	J2474-0048-00	CONN D-SUB JACK 0401018-3 MSK ROHS			1
58	N/A	J2474-0115-00	CONN D-SUB 9P. 2DS-D100-A02 SINGATRON ROHS			1
59	N/A	P0Q47-0000	MAIN HD SMT PCB ASY VPJ-W701 ROHS			1
60	N/A	J2306-0225-00	CHIP INDUCTOR. 2.2UH 1210 T2.4MM 5% NLV32T-2R2J-PF TDK ROHS			1
61	N/A	J2203-0471-00	CERAMIC CAP SMD. 470PF 50V 0603 T0.9MM C0G 5% ROHS			7
62	N/A	J2157-0000-00	RESISTOR ARRAY SMD. 0*4 0402 5% 0.063W 8P4R ROHS			36
63	N/A	J2113-3900-00	CHIP RESISTOR. 390 0603 1% 0.1W ROHS			1
64	N/A	J2153-0332-00	CHIP RESISTOR. 3.3K 0603 5% 0.1W ROHS			6
65	N/A	J2474-0107-00	CONN HDMI. HMR40-AK5210 ACON ROHS			2
66	N/A	J2060-0028-00	MOTOR DRIVER. SOP-8(FD) G994F1U GMT ROHS			6
67	N/A	J2203-0470-00	CERAMIC CAP SMD. 47PF 50V 0603 T0.9MM NP0 5% ROHS			2
68	N/A	J2203-0822-00	CERAMIC CAP SMD. 8200PF 50V 0603 T0.9MM X7R 10% ROHS			1
69	N/A	J2203-0200-00	CERAMIC CAP SMD 20PF 50V 0603 T0.9MM NP0 5% ROHS			4
70	N/A	J2472-0016-00	CONN WIRE. 3PIN S3B-ZR-SM4A-TF(LF)(SN) JST ROHS			6
71	N/A	J2314-0010-00	CHIP FERRITE BEAD 60 OHM 0805 T1.1MM 25% PBY201209T-600Y-N CHILISIN ROHS			31
72	N/A	J2052-0189-00	LDO REGULATOR. TO-263 AIC1084-18PMTR AIC 1.8V ROHS			1
73	N/A	J2153-0222-00	CHIP RESISTOR. 2.2K 0603 5% 0.1W ROHS			1
74	N/A	J2304-0185-01	CHIP INDUCTOR. 1.8UH 0805 T1.05MM 10% IHF-1800N22 TAI-TECH ROHS			3
75	N/A	J2052-0054-00	LINEAR REGULATOR. TO-252 AIC1117-33PETR AIC 3.3V ROHS			3
76	N/A	J2113-5101-00	CHIP RESISTOR 5.1K 0603 1% 0.1W ROHS			24
77	N/A	J2472-0014-00	CONN WIRE. 5PIN SM05B-SRSS-TB(LF)(SN) JST ROHS			1
78	N/A	J2113-4991-00	CHIP RESISTOR. 4.99K 0603 1% 0.1W ROHS			1
79	N/A	J2471-0163-00	CONN FPC. 0.5PITCH 20PIN 6705-E20N-00R ENTERY BOTTOM ROHS			1
80	N/A	J2005-0077-00	CHIP LED. L3.2*W2.7*H1.1 LTST-C155KGJRKT LITE-ON GREEN+RED ROHS			2
81	N/A	J2251-0107-00	ELECTROLYSIC CAP SMD 100UF 6.3V D5*L5.3 ALU 20% RV3-6V101ME55U-T ELNA. ROHS			2
82	N/A	J2251-0107-04	ELECTROLYSIC CAP SMD 100UF 16V D6.3*L5.4 ALU 20% UWX1C101MCL1GB NICHICON. ROHS			12
83	N/A	J2153-0152-00	CHIP RESISTOR. 1.5K 0603 5% 0.1W ROHS			1
84	N/A	J2052-0131-00	LDO REGULATOR. SOT-223 AIC1117-33PYTR AIC 3.3V ROHS			3
85	N/A	J2012-0009-00	TR PNP SOT-323 PMSS3906 PHILIPS ROHS			1
86	N/A	J2012-0026-00	TR PNP. MPT3 2SB1188T100R ROHM ROHS			2
87	N/A	J2153-0472-00	CHIP RESISTOR. 4.7K 0603 5% 0.1W ROHS			28
88	N/A	J2203-0221-00	CERAMIC CAP SMD. 220PF 50V 0603 T0.9MM NP0 5% ROHS			3
89	N/A	J2003-0022-00	SCHOTTKY DIODE. SMB SBM22PT CHENMKO ROHS			1
90	N/A	J2472-0017-00	CONN WIRE. 4PIN S4B-ZR-SM4A-TF(LF)(SN) JST ROHS			2
91	N/A	J2059-0086-00	3-A STEP-DOWN CONVERTER. R-PDSO-G8 TPS5430DDAR TI ROHS			1
92	N/A	J2153-0112-00	CHIP RESISTOR. 1.1K 0603 5% 0.1W ROHS			4
93	N/A	J2033-0018-00	EEPROM SOIC-8 24LC128T-I/SN MICROCHIP 128K-BIT ROHS			2
94	N/A	J2001-0027-00	SWITCHING DIODE. SOT-23 BAV99-7-F DIODES ROHS			15
95	N/A	J2032-0014-03	SDRAM. TSOP2-54 K4S641632K-UC75 SAMSUNG 1M*16BIT*4BANKS ROHS			1
96	N/A	J2004-0009-00	RECTIFIER. PMDS 1SR154-400TE25 ROHM ROHS			10
97	N/A	J2153-0105-00	CHIP RESISTOR 1M 0603 5% 0.1W ROHS			3
98	N/A	J2051-0036-01	OP AMP. TSSOP-14 LM324APWR TI ROHS			3
99	N/A	J2153-0822-00	CHIP RESISTOR. 8.2K 0603 5% 0.1W ROHS			4
100	N/A	J2203-0103-02	CERAMIC CAP SMD. 0.01UF 50V 0603 T0.9MM Y5V +80/-20% ROHS			38
101	N/A	J2346-0030-01	POWER INDUCTOR. 33UH L8.3*W8.3*H4.5 20% RH8D43-330MR ASATECH ROHS			2
102	N/A	J2033-0017-00	EEPROM SOIC-8 24LCS21AT-I/SNG MICROCHIP 1K-BIT ROHS			1
103	N/A	J2153-0470-10	CHIP RESISTOR. 47 0603 5% 0.1W ROHS			8
104	N/A	J2079-0005-00	VIDEO DECODER. TQFP-128 TVP5160PNP TI ROHS			1
105	N/A	J2203-0102-01	CERAMIC CAP SMD. 1000PF 50V 0603 T0.9MM X7R 10% ROHS			9
106	N/A	J2041-0029-00	OSCILLATOR. L7*W5*H1.4 FN4000040 ECERA 40MHZ 15PF 50PPM ROHS			1
107	N/A	J2203-0331-01	CERAMIC CAP SMD. 330PF 50V 0603 T0.9MM C0G 5% ROHS			6
108	N/A	J2203-0101-10	CERAMIC CAP SMD. 100PF 100V 0603 T0.9MM NP0 5% ROHS			1
109	N/A	J2313-0012-01	CHIP FERRITE BEAD. 68 OHM 0603 T0.95MM 25% HCB1608KF-680T10 TAI-TECH ROHS			5
110	N/A	J2076-0015-01	SINGLE 2-INPUT POSITIVE-AND GATE SOT-23-5 SN74LVC1G08DBVR TI ROHS			2

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
111	N/A	J2069-0030-00	HDMI PROTECTOR. TSSOP-38 CM2021-02TR CMD ROHS			2
112	N/A	J2203-0823-00	CERAMIC CAP SMD. 0.082UF 25V 0603 T0.9MM X7R 10% ROHS			2
113	N/A	J2076-0014-02	BUS BUFFER GATE. SOT-753 74AHC1G125GV PHILIPS ROHS			2
114	N/A	J2472-0054-00	CONN WIRE. 12PIN S12B-PH-SM4-TB(LF)(SN) JST ROHS			1
115	N/A	J2014-0072-00	R-BUILT-IN NPN SC-70 PDTC124EU PHILIPS ROHS			1
116	N/A	J2052-0033-00	LINEAR REGULATOR. TO-252 AIC1117-18PETR AIC 1.8V ROHS			3
117	N/A	J2054-0006-01	ADC. SOT-23-8 MAX1037EKA+T MAXIM ROHS			1
118	N/A	J2203-0220-00	CERAMIC CAP SMD. 22PF 50V 0603 T0.9MM NP0 5% ROHS			4
119	N/A	J2059-0105-00	STEP DOWN REGULATOR TO-263-5 G5595-50TG1U GMT ROHS			1
120	N/A	J2319-0003-00	ESD SUPPRESSOR 0603 T0.6MM NA 1608SGXA-TR1 PICO ROHS			2
121	N/A	J2113-2200-00	CHIP RESISTOR. 220 0603 1% 0.1W ROHS			5
122	N/A	J2029-0021-00	LIGHT CONVERTER. TMB6 TSL2561T TAOS ROHS			1
123	N/A	J2251-0476-09	ELECTROLYSIC CAP SMD 47UF 6.3V D4*L5.4 ALU 20% UWR0J470MCL1GB NICHICON. ROHS			3
124	N/A	J2153-0202-00	CHIP RESISTOR. 2K 0603 5% 0.1W ROHS			3
125	N/A	J2251-0476-08	ELECTROLYSIC CAP SMD 47UF 25V D6.3*L5.4 ALU 20% UWR1E470MCL1GB NICHICON. ROHS			10
126	N/A	J2153-0473-00	CHIP RESISTOR 47K 0603 5% 0.1W ROHS			2
127	N/A	J2113-8201-00	CHIP RESISTOR. 8.2K 0603 1% 0.1W ROHS			1
128	N/A	J2052-0146-00	ADJ REGULATOR TO-252 LM317K-TN3-R UTC 1.3V-37V ROHS			2
129	N/A	J2059-0102-00	STEP DOWN REGULATOR TO-263-5 G5595-33TG1U GMT ROHS			1
130	N/A	J2089-0007-01	8BIT I2C I/O PORT. TSSOP-16 CAT9554YI-GT2 CATALYST ROHS			1
131	N/A	J2204-0223-00	CERAMIC CAP SMD 0.022UF 50V 0805 T1.35MM X7R 10% ROHS			2
132	N/A	J2158-0472-00	RESISTOR ARRAY SMD 4.7K*8 0402 5%. 0.063W 16P8R ROHS			1
133	N/A	J2002-0026-00	ZENER DIODE. LL-34 VZ=5.6V RLZTE-115.6B ROHM ROHS			8
134	N/A	J2001-0011-00	SWITCHING DIODE SOD-323 1N4148WS DIODES ROHS			3
135	N/A	J2003-0058-00	SCHOTTKY DIODE. SMA B340A-13-F DIODES ROHS			3
136	N/A	J2153-0122-00	CHIP RESISTOR. 1.2K 0603 5% 0.1W ROHS			1
137	N/A	J2153-0203-00	CHIP RESISTOR 20K 0603 5% 0.1W ROHS			7
138	N/A	J2251-0227-01	ELECTROLYSIC CAP SMD 220UF 6.3V D6.3*L5.8 ALU 20% UWT0J221MCL6GS NICHICON. ROHS			5
139	N/A	J2113-1691-00	CHIP RESISTOR. 1.69K 0603 1% 0.1W ROHS			1
140	N/A	J2113-1001-00	CHIP RESISTOR. 1K 0603 1% 0.1W ROHS			1
141	N/A	J2053-0001-00	RS232 DRIVER RECEIVER. TSSOP-16 ADM3202ARUZ-REEL ANALOG DEVICES ROHS			1
142	N/A	J2001-0008-01	SWITCHING DIODE. SOD-323 1SS355PT CHENMKO ROHS			1
143	N/A	J2011-0012-00	TR NPN. SOT-523 MMBT3904T-7-F DIODES ROHS			6
144	N/A	J2013-0004-00	TR MOSFET N-CHANNEL SOT-23 AO3400L ALPHA OMEGA. ROHS			2
145	N/A	J2034-0045-00	NOR FLASH MEMORY. SON-8 MX25L512ZMI-12G MXIC 512K*1BIT ROHS			1
146	N/A	J2041-0024-00	OSCILLATOR. L7.3*W4.8*H1.0 6N27000248 TXC 27MHZ 30PF 50PPM ROHS			1
147	N/A	J2052-0149-00	LDO REGULATOR. SC-70-5 RT9193-25PU5 RICHTEK 2.5V ROHS			1
148	N/A	J2052-0153-00	LDO REGULATOR. SOT-23-5 RT9193-33PB RICHTEK 3.3V ROHS			1
149	N/A	J2052-0212-00	LDO REGULATOR. SC-63 PQ010GN01ZPH SHARP 1V ROHS			1
150	N/A	J2112-1052-00	CHIP RESISTOR. 10.5K 0402 1% 0.063W ROHS			1
151	N/A	J2112-3401-00	CHIP RESISTOR. 3.4K 0402 1% 0.063W ROHS			1
152	N/A	J2112-4990-01	CHIP RESISTOR 499 0402 1% 0.063W ROHS			1
153	N/A	J2113-1503-00	CHIP RESISTOR. 150K 0603 1% 0.1W ROHS			3
154	N/A	J2113-1651-00	CHIP RESISTOR. 1.65K 0603 1% 0.1W ROHS			1
155	N/A	J2113-5601-00	CHIP RESISTOR. 5.6K 0603 1% 0.1W ROHS			1
156	N/A	J2113-750Z-00	CHIP RESISTOR. 75 0603 1% 0.1W ROHS			5
157	N/A	J2113-7871-00	CHIP RESISTOR. 7.87K 0603 1% 0.1W ROHS			1
158	N/A	J2113-9101-00	CHIP RESISTOR. 9.1K 0603 1% 0.1W ROHS			1
159	N/A	J2153-0000-01	CHIP RESISTOR 0 0603 5% 0.1W ROHS			103
160	N/A	J2153-0100-00	CHIP RESISTOR 10 0603 5% 0.1W ROHS			2
161	N/A	J2153-0101-00	CHIP RESISTOR. 100 0603 5% 0.1W ROHS			10
162	N/A	J2153-0102-01	CHIP RESISTOR 1K 0603 5% 0.1W ROHS			39
163	N/A	J2153-0103-00	CHIP RESISTOR 10K 0603 5% 0.1W ROHS			62
164	N/A	J2153-0104-00	CHIP RESISTOR 100K 0603 5% 0.1W ROHS			12
165	N/A	J2153-0201-00	CHIP RESISTOR. 200 0603 5% 0.1W ROHS			1
166	N/A	J2153-0220-00	CHIP RESISTOR. 22 0603 5% 0.1W ROHS			10
167	N/A	J2153-0330-00	CHIP RESISTOR. 33 0603 5% 0.1W ROHS			48
168	N/A	J2153-0331-00	CHIP RESISTOR 330 0603 5% 0.1W ROHS			4
169	N/A	J2153-0560-01	CHIP RESISTOR 56 0603 5% 0.1W ROHS			1
170	N/A	J2155-0000-01	CHIP RESISTOR. 0 1206 5% 0.25W ROHS			1
171	N/A	J2157-0103-00	RESISTOR ARRAY SMD. 10K*4 0402 5% 0.063W 8P4R ROHS			1
172	N/A	J2157-0220-01	RESISTOR ARRAY SMD. 22*4 0402 5% 0.063W 8P4R ROHS			6
173	N/A	J2157-0330-02	RESISTOR ARRAY SMD. 33*4 0402 5% 0.063W 8P4R ROHS			24
174	N/A	J2157-0470-00	RESISTOR ARRAY SMD. 47*4 0402 5% 0.063W 8P4R ROHS			37
175	N/A	J2158-0101-10	RESISTOR ARRAY SMD 100*8 0402 5% 0.063W 16P8R ROHS			5
176	N/A	J2158-0103-00	RESISTOR ARRAY SMD. 10K*8 0402 5% 0.063W 16P8R ROHS			1
177	N/A	J2158-0220-00	RESISTOR ARRAY SMD 22*8 0402 5% 0.063W 16P8R ROHS			6
178	N/A	J2158-0330-00	RESISTOR ARRAY SMD 33*8 0402 5% 0.063W 16P8R ROHS			25
179	N/A	J2158-0680-00	RESISTOR ARRAY SMD. 68*8 0402 5% 0.063W 16P8R ROHS			10
180	N/A	J2202-0104-04	CERAMIC CAP SMD. 0.1UF 25V 0402 T0.55MM Y5V +80/-20% ROHS			51
181	N/A	J2203-0104-05	CERAMIC CAP SMD. 0.1UF 25V 0603 T0.9MM X7R 10% ROHS			335
182	N/A	J2203-0105-05	CERAMIC CAP SMD. 1UF 16V 0603 T0.9MM X5R 10% ROHS			6
183	N/A	J2203-0105-06	CERAMIC CAP SMD. 1UF 25V 0603 T0.9MM X5R 10% ROHS			16
184	N/A	J2203-0225-03	CERAMIC CAP SMD. 2.2UF 10V 0603 T0.9MM X5R 10% ROHS			52
185	N/A	J2203-050Z-00	CERAMIC CAP SMD. 5PF 50V 0603 T0.9MM C0G 5% ROHS			3
186	N/A	J2204-0106-10	CERAMIC CAP SMD 10UF 16V 0805 T1.4MM Y5V +80/-20% ROHS			4
187	N/A	J2204-0106-11	CERAMIC CAP SMD 10UF 10V 0805 T1.4MM Y5V +80/-20% ROHS			55
188	N/A	J2204-0475-07	CERAMIC CAP SMD. 4.7UF 10V 0805 T1.4MM X5R 10% LMK212BJ475KG-T TAIYO YUDEN ROHS			14
189	N/A	J2205-0106-06	CERAMIC CAP SMD. 10UF 25V 1206 T1.8MM X5R 10% ROHS			4
190	N/A	J2206-0476-00	CERAMIC CAP SMD. 47UF 10V 1210 T2.7MM Y5V +80/-20% ROHS			1
191	N/A	J2313-0015-00	CHIP FERRITE BEAD. 30 OHM 0603 T0.95MM 25% FCM1608KF-300T05 TAI-TECH ROHS			11
192	N/A	J2343-0005-00	CHOCK COIL 90 OHM 0805 T1.0MM DLW21HN900SQ2L MURATA ROHS			1
193	N/A	J2492-0000-00	ECO SOLDER. M705-GRN360-K2-V SMIC ROHS			7.525
194	N/A	J2202-0333-01	CERAMIC CAP SMD. 0.033UF 16V 0402 T0.55MM X7R 10% ROHS			1
195	N/A	J2054-0040-00	DAC 8P2S-A M62334FP RENESAS ROHS			2
196	N/A	J2056-0026-00	ANALOG MULTIPLEXERS TSSOP-16 CD74HCT4053PWR TI ROHS			1
197	N/A	J2217-0477-00	TANTALUM CAP SMD 470UF 6.3V D CASE T3.1MM 20% B45196H1477M409 EPCOS. ROHS			3
198	N/A	J2471-0256-00	CONN FPC 0.3PITCH 84PIN FF22C-84B-R13A DDK TOP ROHS			3
199	N/A	J2314-0002-00	CHIP FERRITE BEAD 120 OHM 0805 T1.1MM 25% FBMA-11-201209-121A60T KING CORE ROHS			2
200	N/A	J2472-0065-00	CONN WIRE 8PIN 88260-0800N-06 ACES. ROHS			1
201	N/A	J2033-0028-00	EEPROM SOIC-8 24LC256T-I/SN MICROCHIP 256K-BIT ROHS			1
202	N/A	J2217-0476-01	TANTALUM CAP SMD 47UF 25V. D CASE T3.1MM 10% ROHS			1
203	N/A	J2082-0064-00	CPLD TQFP-144 XC2C256-7TQG144C XILINX ROHS			1
204	N/A	J2346-0196-00	POWER INDUCTOR 10UH L12.8*W12.8*H6.0 20% TPRHC1205F-100M-C01 TAI-TECH ROHS			1
205	N/A	P0Q37-0000-00	MAIN PCB 8 FR4 1.6MM A VPJ-W701 ROHS			1
206	N/A	J2033-0023-00	EEPROM. SOIC-8 24LCS22AT-I/SN MICROCHIP 2K-BIT ROHS			2
207	N/A	J2113-6202-00	CHIP RESISTOR. 62K 0603 1% 0.1W ROHS			1
208	N/A	J2078-0009-00	VIDEO SIGNAL PROCESSER BGA484-1.27 L3E07120K0A SEIKO EPSON ROHS			1
209	N/A	J2042-0056-00	CRYSTAL HC-49/S H4.2 9C14300068 TXC 14.31818MHZ 18PF 20PPM ROHS			1
210	N/A	J2052-0223-00	TERMINATION REGULATOR SOP-8 G2996F1UF GMT ADJ ROHS			1
211	N/A	J2204-0106-14	CERAMIC CAP SMD. 10UF 10V 0805 T0.95MM X7R 20% MAL05X7R1A106M MATSUKI ROHS			8
212	N/A	J2051-0032-00	OP AMP. SOP-8 UPC358G2-E2-A NEC ROHS			2
213	N/A	J2078-0010-00	IMAGE PROCESSOR PBGA-580 REON VX-210 SILICON OPTIX ROHS			1
214	N/A	J2472-0074-00	CONN WIRE 6PIN 88261-067N-09 ACES ROHS			1
215	N/A	J2075-0008-00	PLL CLOCK DRIVER SOIC-8 CDCVF2505DRG4 TI ROHS			1
216	N/A	J2034-0048-00	FLASH MEMORY TSOP-56 S29GL256N10TFI010 SPANSION 256MBIT ROHS			1
217	N/A	J2113-2213-00	CHIP RESISTOR 221K 0603 1% 0.1W ROHS			4
218	N/A	J2078-0008-00	VIDEO SIGNAL PROCESSER LQFP-128 L3E08020F0A SEIKO EPSON ROHS			2
219	N/A	J2051-0065-00	DUAL OP AMP SOIC-8 AD826ARZ-REEL7 ANALOG DEVICES ROHS			2
220	N/A	J2203-0150-00	CERAMIC CAP SMD 15PF 50V 0603 T0.95MM NP0 5% ROHS			3
221	N/A	J2029-0028-00	X-Y SENSOR QFN-16 MMA6270QR2 FREESCALE ROHS			1
222	N/A	J2059-0106-00	DC-DC CONVERTER SOP-8 RT9214PSP RICHTEK ROHS			1
223	N/A	J2055-0060-00	RESET IC SOT-23-5 TPS3825-33DBVRG4 TI 2.93V ROHS			1
224	N/A	J2056-0027-00	ANALOG SWITCHES QSOP-16 ADG794BRQZ-REEL7 ANALOG DEVICES ROHS			1
225	N/A	J2068-0030-00	POWER DISTRIBUTION SWITCHES SOIC-8 TPS2051BDRG4 TI ROHS			1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
226	N/A	J2059-0109-00	DC-DC CONVERTER TSOT-23-5 LT1931AES5#TRPBF LINEAR ROHS			1
227	N/A	J2303-0124-00	CHIP INDUCTOR 0.12UH 0603 T0.95MM 10% FCI1608F-R12K TAI-TECH ROHS			1
228	N/A	J2042-0116-00	CRYSTAL HC-49/S H4.5 R49SSA-028636-FA-20-30-HA YOKETAN 28.6363MHZ 20PF 30PPM ROHS			1
229	N/A	J2113-2371-00	CHIP RESISTOR 2.37K 0603 1% 0.1W ROHS			1
230	N/A	J2113-390Z-00	CHIP RESISTOR. 39 0603 1% 0.1W ROHS			9
231	N/A	J2113-4751-00	CHIP RESISTOR 4.75K 0603 1% 0.1W ROHS			1
232	N/A	J2346-0132-00	POWER INDUCTOR. 15UH L10.0*W9.0*H5.4 20% SCD1005T-150M-N CHILISIN ROHS			1
233	N/A	J2041-0006-00	OSCILLATOR L5.0*W3.2*H1.3 FD0500002 ECERA 5MHZ 15PF 50PPM ROHS			1
234	N/A	J2113-360N-00	CHIP RESISTOR 36 0603 1% 0.1W ROHS			9
235	N/A	J2346-0067-01	POWER INDUCTOR. 10UH L6.7*W6.7*H4.0 20% RH6D38-100MR ASATECH ROHS			2
236	N/A	J2032-0009-22	SDRAM TSOP2-66 HY5DU561622ETP-4 HYNIX 4M*16BIT*4BANKS ROHS			4
237	N/A	J2113-3242-00	CHIP RESISTOR 32.4K 0603 1% 0.1W ROHS			1
238	N/A	J2001-0028-02	SWITCHING DIODE SOT-23 BAV70PT CHENMKO ROHS			1
239	N/A	J2315-0007-00	CHIP FERRITE BEAD 70 OHM 1206 T1.3MM 25% FCB3216KF-700T05 TAI-TECH ROHS			1
240	N/A	J2314-0026-00	CHIP FERRITE BEAD 600 OHM 0805 T1.05MM 25% HCB2012KF-601T10 TAI-TECH ROHS			2
241	N/A	J2472-0093-00	CONN WIRE 20PIN 87216-2016-06 ACES ROHS			1
242	N/A	J2054-0044-00	ADC LQFP-144 AD9388ABSTZ-170 ANALOG DEVICES ROHS			1
243	N/A	J2080-0014-12	CPU-OTP ROM SOIC-14 PIC16F630-I/SL(VPJ-W701) MICROCHIP ROHS			1
244	N/A	J2003-0010-00	SCHOTTKY DIODE. SMA SSM24LPT CHENMKO ROHS			4
245	N/A	J2078-0011-00	VIDEO SIGNAL PROCESSER BGA324-1.27 J-L006 JEPICO ROHS			1
246	N/A	J2474-0142-00	CONN RCA+SV 2MJ1503-011111 SINGATRON ROHS			1
247	N/A	J2474-0143-00	CONN RCA JACK 2PJ-246G-B02 SINGATRON ROHS			1
248	N/A	P0Q47-3000	MOTOR BOARD SMT PCB ASY VPJ-W701 ROHS			1
249	N/A	J2346-0136-01	POWER INDUCTOR. 1UH L4.5*W4.0*H3.2 20% SCD0403T-1R0M-N CHILISIN ROHS			1
250	N/A	P0Q37-0300-00	MOTOR PCB 2 FR4 1.6MM A VPJ-W701 ROHS			1
251	N/A	J2204-0106-11	CERAMIC CAP SMD 10UF 10V 0805 T1.4MM Y5V +80/-20% ROHS			14
252	N/A	J2153-0000-01	CHIP RESISTOR 0 0603 5% 0.1W ROHS			12
253	N/A	J2472-0015-00	CONN WIRE. 2PIN S2B-ZR-SM4A-TF(LF)(SN) JST ROHS			1
254	N/A	J2153-010Z-00	CHIP RESISTOR. 1 0603 5% 0.1W ROHS			2
255	N/A	J2052-0131-00	LDO REGULATOR. SOT-223 AIC1117-33PYTR AIC 3.3V ROHS			1
256	N/A	J2472-0017-00	CONN WIRE. 4PIN S4B-ZR-SM4A-TF(LF)(SN) JST ROHS			1
257	N/A	J2203-0104-05	CERAMIC CAP SMD. 0.1UF 25V 0603 T0.9MM X7R 10% ROHS			4
258	N/A	J2472-0075-00	CONN WIRE 4PIN 88298-040N ACES ROHS			1
259	N/A	J2154-0000-00	CHIP RESISTOR. 0 0805 5% 0.125W ROHS			12
260	N/A	J2472-0084-00	CONN WIRE 5PIN 88298-050N ACES ROHS			1
261	N/A	J2060-0031-00	MOTOR DRIVER. QFN-48 R2A30404NP RENESAS ROHS			2
262	N/A	J2472-0093-00	CONN WIRE 20PIN 87216-2016-06 ACES ROHS			1
263	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			3
264	N/A	P0Q34-7610-00	THERMAL PAD-U28 VPJ-W701 00 NO PAINTING ROHS SILICON			1
265	N/A	P0Q38-2620-00	CONDUCTIVE GASKET HDMI VPJ-W701 ROHS			2
266	N/A	P0Q38-2660-00	CONDUCTIVE GASKET TOP-T VPJ-W701 ROHS			1
267	N/A	P0Q38-2650-00	CONDUCTIVE GASKET TOP-LR VPJ-W701 ROHS			2
268	N/A	P0Q38-2630-00	CONDUCTIVE GASKET BOT-LR VPJ-W701 ROHS			2
269	N/A	P0Q38-2640-00	CONDUCTIVE GASKET BOT-T VPJ-W701 ROHS			1
270	CB-00008582	J2595-0262-00	WIRE CON-CON 1102003-139 MSK 20PIN L40MM 1571#28 ROHS			1
271	N/A	P0Q43-1010	AIRTUNNEL-PSC-ASY VPJ-W701 ROHS			1
272	N/A	P0Q34-2800-00	AIR TUNNEL PSC VPJ-W701 00 NO PAINTING ROHS ABS			1
273	N/A	P0Q38-2550-00	SPONGE PSCTUNNEL VPJ-W701 ROHS			1
274	E-00008799	P0Q47-5000	THERMAL-SENSOR SMT PCB ASY VPJ-W701 ROHS			2
275	N/A	J2492-0000-00	ECO SOLDER. M705-GRN360-K2-V SMIC ROHS			0.07
276	N/A	J2203-0104-01	CERAMIC CAP SMD. 0.1UF 16V 0603 T0.9MM X7R 10% ROHS			2
277	N/A	P0Q37-0500-00	SENSOR PCB 2 FR4 1.6MM A THERMAL-VPJ-W701 ROHS			2
278	N/A	J2472-0017-00	CONN WIRE. 4PIN S4B-ZR-SM4A-TF(LF)(SN) JST ROHS			2
279	N/A	J2153-0102-01	CHIP RESISTOR 1K 0603 5% 0.1W ROHS			2
280	N/A	J2029-0017-00	DIGITAL TEMPERATURE SENSOR. MSOP8 TMP75AIDGKT TI ROHS			2
281	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			1
282	CB-00008580	J2595-0259-00	WIRE ASSY CON-CON 1102003-136 MSK ROHS			1
283	N/A	P0Q34-7510-00	PINGOOD-CH-01B VPJ-W701 00 NO PAINTING ROHS NYLON			2
284	PL-00008311	P0Q43-1003	LENS-CAP-ASY VPJ-W701 ROHS			1
285	N/A	P0Q35-4510-00	VS LOGO VPJ-W701 00 NO PAINTING ROHS			1
286	N/A	P1638-R000-00	STRAP PREMIER PD-S600 P1638-000 ROHS			1
287	N/A	P8734-7500-00	STRAP RIVET-GINLIAN-CC-0018 VPD-X670 BK ROHS			1
288	N/A	P0Q34-2830-00	LENS CAP VPJ-W701 00 NO PAINTING ROHS PC			1
289	HW-00008413	J1635-3680-00	SCREW TP 4 16 A 2.5 D=6.8 NI NONE ROHS			10
290	N/A	P0Q43-1002	IO-COVER-ASY VPJ-W701 ROHS			1
291	N/A	P0Q38-1540-00	IO PLATE-VS VPJ-W701 ROHS			1
292	N/A	P0Q35-0600-00	SHEET KEY LOCK VPJ-W701 00 NO PAINTING ROHS			1
293	N/A	P0Q43-1052	IO-BODY-ASY VPJ-W701 ROHS			1
294	B-00008279	P8047-5100	FRONT IR DIP PCB ASY PJ-X601 ROHS			1
295	N/A	P8047-5000	FRONT IR SMT PCB ASY PJ-X601 ROHS			1
296	N/A	P8037-0500-00	SENSOR PCB 2 FR4 1.6MM A FRONT IR PJ-X601 ROHS			1
297	N/A	J2204-0106-14	CERAMIC CAP SMD. 10UF 10V 0805 T0.95MM X7R 20% MAL05X7R1A106M MATSUKI ROHS			1
298	N/A	J2153-0101-00	CHIP RESISTOR. 100 0603 5% 0.1W ROHS			1
299	N/A	J2472-0017-00	CONN WIRE. 4PIN S4B-ZR-SM4A-TF(LF)(SN) JST ROHS			1
300	N/A	J2203-0104-05	CERAMIC CAP SMD. 0.1UF 25V 0603 T0.9MM X7R 10% ROHS			1
301	N/A	J2026-0014-00	IR RECEIVER MODULE. FM-9038TM2-5AN OPTO-SENSOR ROHS			1
302	N/A	J2492-0000-00	ECO SOLDER. M705-GRN360-K2-V SMIC ROHS			0.013
303	N/A	P0Q38-1560-00	MYLAR BACK IR VPJ-W701 ROHS			1
304	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			2
305	CB-00008581	J2595-0257-00	WIRE CON-CON 1102003-134 MSK 4PIN L60MM 1571#28 ROHS			1
306	N/A	P0Q43-1006	AIRTUNNEL-LAMP-ASY VPJ-W701 ROHS			1
307	N/A	P0Q34-2770-00	AIR TUNNEL LAMP-BOT VPJ-W701 00 NO PAINTING ROHS PC+30%G			1
308	N/A	P0Q35-0550-00	SHEET LAMP TUNNEL VPJ-W701 00 NO PAINTING ROHS			1
309	M-00008182	J2394-0082-00	FAN 3110KL-04W-B29(L=140MM) NMB ROHS			1
310	N/A	P0Q34-7510-00	PINGOOD-CH-01B VPJ-W701 00 NO PAINTING ROHS NYLON			2
311	N/A	P0Q38-2570-00	CUSHION-FAN8025 VPJ-W701 ROHS			1
312	N/A	P0Q34-2760-00	AIR TUNNEL LAMP-TOP VPJ-W701 00 NO PAINTING ROHS PC+30%G			1
313	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			4
314	N/A	P0Q43-1009	OPTICAL-ENGINE-ASY VPJ-W701 ROHS			1
315	HW-00008411	J1635-0480-00	SCREW. TP 1.7 5 A 0.5 D=3 BLACK NONE ROHS			4
316	N/A	P0Q38-2510-00	CONDUCTIVE GASKET VPJ-W701 ROHS			1
317	N/A	P0Q35-0020-00	DUCT-LAMP-TOP VPJ-W701 00 NO PAINTING ROHS			1
318	N/A	P0Q34-2590-99	LENS CIRCLE VPJ-W701 99 FOR PAINTING ROHS ABS			1
319	N/A	P0Q34-2590-00	LENS CIRCLE VPJ-W701 00 NO PAINTING ROHS ABS			1
320	N/A	P0Q43-1020	0.74INCH 1080P CJ585 OPTICAL ENGINE VPJ-W701 CHINONTEC ROHS			1
321	N/A	P0Q36-7060-00	0.74 INCH 1080P LCD PANEL (BR) VPJ-W701 ROHS			0.5
322	N/A	P0Q36-7110-00	USHIO 160W LAMP NSH160HO VPJ-W701 ROHS			1
323	N/A	P0Q36-7010-00	0.74INCH 1080P LCD PANEL(RL) VPJ-W701 ROHS			0.5
324	N/A	P0Q36-7050-00	0.74 INCH 1080P LCD PANEL (BL) VPJ-W701 ROHS			0.5
325	N/A	P0Q36-7030-00	0.74 INCH 1080P LCD PANEL (GL) VPJ-W701 ROHS			0.5
326	N/A	P0Q36-7020-00	0.74 INCH 1080P LCD PANEL (RR) VPJ-W701 ROHS			0.5
327	N/A	P0Q36-7040-00	0.74 INCH 1080P LCD PANEL (GR) VPJ-W701 ROHS			0.5
328	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			2
329	N/A	P0Q43-1004	AIRTUNNEL-BALLAST-ASY VPJ-W701 ROHS			1
330	N/A	P0Q34-7520-00	PINGOOD-CHF-11E VPJ-W701 00 NO PAINTING ROHS NYLON			1
331	M-00008178	J2394-0081-00	FAN 2408NL-04W-B29(L=200MM) NMB ROHS			1
332	N/A	P0Q38-2580-00	CUSHION-FAN6020 VPJ-W701 ROHS			1
333	N/A	P0Q34-7510-00	PINGOOD-CH-01B VPJ-W701 00 NO PAINTING ROHS NYLON			1
334	N/A	P0Q34-2740-00	AIR TUNNEL BURNER VPJ-W701 00 NO PAINTING ROHS PC+30%G			1
335	N/A	P0Q34-7590-00	GINLIAN-WC-17T VPJ-W701 00 NO PAINTING ROHS NYLON			1
336	N/A	P0Q34-2750-00	AIR TUNNEL BALLAST VPJ-W701 00 NO PAINTING ROHS ABS			1
337	M-00008179	J2394-0086-00	FAN BM6025-04W-B49(L=270MM) NMB ROHS			1
338	N/A	P0Q38-2600-00	CUSHION-BLOWER VPJ-W701 ROHS			4
339	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			3
340	HW-00008416	J1635-C093-00	SCREW-WASHER TP 3 30 D 2 D=5.3 NI NONE SUS ROHS			2

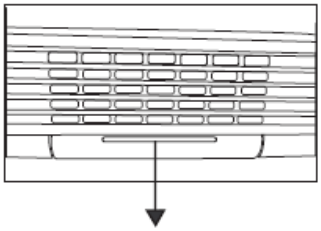
Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
341	N/A	P0Q34-7600-00	PINGOOD-CH-01F VPJ-W701 00 NO PAINTING ROHS NYLON			1
342	N/A	P0Q35-7520-00	BALLAST SHIELDING COVER VPJ-W701 00 NO PAINTING ROHS			1
343	N/A	P0Q35-7530-00	BALLAST SHIELDING TOP VPJ-W701 00 NO PAINTING ROHS			1
344	N/A	P0Q43-1005	AIRTUNNEL-POWER-ASY VPJ-W701 ROHS			1
345	M-00008182	J2394-0082-00	FAN 3110KL-04W-B29(L=140MM) NMB ROHS			1
346	N/A	P0Q34-2780-00	AIR TUNNEL POWER-TOP VPJ-W701 00 NO PAINTING ROHS ABS			1
347	N/A	P0Q38-2570-00	CUSHION-FAN8025 VPJ-W701 ROHS			1
348	N/A	P0Q34-2790-00	AIR TUNNEL POWER-BOT VPJ-W701 00 NO PAINTING ROHS ABS			1
349	N/A	P0Q34-7600-00	PINGOOD-CH-01F VPJ-W701 00 NO PAINTING ROHS NYLON			1
350	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			4
351	HW-00008412	J1635-A973-00	SCREW M 3 6 A 1.9 D=6.3 BLACK NONE ROHS			2
352	N/A	P0Q43-1001	BOTTOM-COVER-ASY VPJ-W701 ROHS			1
353	PL-00008310	P0Q38-1550-00	FOOT SPACER VPJ-W701 ROHS			2
354	PL-00008309	P0Q43-1055	LEG-STICK-ASY VPJ-W701 ROHS			2
355	B-00008279	P8047-5100	FRONT IR DIP PCB ASY PJ-X601 ROHS			1
356	N/A	P8047-5000	FRONT IR SMT PCB ASY PJ-X601 ROHS			1
357	N/A	P8037-0500-00	SENSOR PCB 2 FR4 1.6MM A FRONT IR PJ-X601 ROHS			1
358	N/A	J2204-0106-14	CERAMIC CAP SMD. 10UF 10V 0805 T0.95MM X7R 20% MAL05X7R1A106M MATSUKI ROHS			1
359	N/A	J2153-0101-00	CHIP RESISTOR. 100 0603 5% 0.1W ROHS			1
360	N/A	J2472-0017-00	CONN WIRE. 4PIN S4B-ZR-SM4A-TF(LF)(SN) JST ROHS			1
361	N/A	J2203-0104-05	CERAMIC CAP SMD. 0.1UF 25V 0603 T0.9MM X7R 10% ROHS			1
362	N/A	J2026-0014-00	IR RECEIVER MODULE. FM-9038TM2-5AN OPTO-SENSOR ROHS			1
363	N/A	J2492-0000-00	ECO SOLDER. M705-GRN360-K2-V SMIC ROHS			0.013
364	N/A	J1635-C011-00	SCREW TP 2.5 12 A 1.7 D=4 NI HEAT-TREATMENT ROHS			2
365	N/A	P0Q43-1013	LEFT-COVER-ASY VPJ-W701 ROHS			1
366	N/A	P0Q43-1053	LEFT-BODY-ASY VPJ-W701 ROHS			1
367	N/A	P0Q38-1530-00	KEY METALDOME VPJ-W701 ROHS			1
368	B-00008859	P0Q47-7000	KEY-PAD SMT PCB ASY VPJ-W701 ROHS			1
369	N/A	J2492-0000-00	ECO SOLDER. M705-GRN360-K2-V SMIC ROHS			0.045
370	N/A	J2011-0012-00	TR NPN. SOT-523 MMBT3904T-7-F DIODES ROHS			1
371	N/A	J2471-0163-00	CONN FPC. 0.5PITCH 20PIN 6705-E20N-00R ENTERY BOTTOM ROHS			1
372	N/A	J2153-0000-01	CHIP RESISTOR 0 0603 5% 0.1W ROHS			1
373	N/A	J2203-0104-05	CERAMIC CAP SMD. 0.1UF 25V 0603 T0.9MM X7R 10% ROHS			10
374	N/A	P0Q37-0700-00	KEYPAD PCB 2 FR4 1.6MM A VPJ-W701 ROHS			1
375	N/A	J2153-0201-00	CHIP RESISTOR. 200 0603 5% 0.1W ROHS			6
376	N/A	J2005-0105-00	CHIP LED. L1.6*W0.8*H0.35 LTST-C193JBKT-2A LITE-ON BLUE ROHS			6
377	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			4
378	N/A	J2591-0087-00	FFC CABLE A20050D4466NB ENTERY 0.5PITCH 20PIN L50MM ROHS			1
379	N/A	P0Q43-1011	RIGHT-COVER-ASY VPJ-W701 ROHS			1
380	N/A	P0Q43-1056	LAMP-DOOR-ASY VPJ-W701 ROHS			1
381	C-00008812	P0Q34-2560-99	LAMP COVER VPJ-W701 99 FOR PAINTING ROHS ABS			1
382	N/A	P0Q34-2560-00	LAMP COVER VPJ-W701 00 NO PAINTING ROHS ABS			1
383	N/A	P0Q35-0570-00	SHEET LAMP COVER VPJ-W701 00 NO PAINTING ROHS			1
384	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			1
385	N/A	P0Q34-2550-99	RIGHT COVER VPJ-W701 99 FOR PAINTING ROHS PC+ABS			1
386	N/A	P0Q34-2550-00	RIGHT COVER VPJ-W701 00 NO PAINTING ROHS PC+ABS			1
387	N/A	J1635-A460-02	SCREW M 3 8 A 2 D=5.3 BLACK NONE ROHS			2
388	N/A	P0Q47-9001	USHIO 160W BALLAST VPJ-W701 ROHS			1
389	N/A	P0Q35-0590-00	SHEET FRONT IR VPJ-W701 00 NO PAINTING ROHS			1
390	PL-00008306	P0Q34-2720-00	FOOT LEVER VPJ-W701 00 NO PAINTING ROHS PC+ABS			2
391	PL-00008305	P0Q34-2680-99	ADUGE BUTTON-R VPJ-W701 99 FOR PAINTING ROHS ABS			1
392	N/A	P0Q34-2680-00	ADUGE BUTTON-R VPJ-W701 00 NO PAINTING ROHS ABS			1
393	N/A	P0Q43-1054	LENS-COVER-ASY VPJ-W701 ROHS			1
394	N/A	P0Q38-2560-00	SPONGE BOTTOM VPJ-W701 ROHS			1
395	N/A	P0Q43-1051	BOTTOM-BODY-ASY VPJ-W701 ROHS			1
396	M-00008183	P0Q43-1012	FILTER-HOLDER-ASY VPJ-W701 ROHS			1
397	N/A	P0Q34-2640-99	FILTER HOLDER VPJ-W701 99 FOR PAINTING ROHS ABS			1
398	N/A	P0Q34-2640-00	FILTER HOLDER VPJ-W701 00 NO PAINTING ROHS ABS			1
399	N/A	P0Q38-2500-00	FILTER VPJ-W701 ROHS			1
400	PL-00008308	P0Q35-3500-00	FOOT SPRING VPJ-W701 00 NO PAINTING ROHS			2
401	PL-00008303	P0Q34-2670-99	ADUGE BUTTON-L VPJ-W701 99 FOR PAINTING ROHS ABS			1
402	N/A	P0Q34-2670-00	ADUGE BUTTON-L VPJ-W701 00 NO PAINTING ROHS ABS			1
403	M-00008180	J2394-0078-00	FAN BFB1112L-R00(L=280MM) DELTA ROHS			1
404	N/A	P0Q34-2730-00	COVER FILTER GAP VPJ-W701 00 NO PAINTING ROHS ABS			2
405	M-00008181	J2394-0085-00	FAN BM6025-04W-B49(L=340MM) NMB ROHS			1
406	PL-00008307	P0Q43-1057	RUBBER-RING-ASY VPJ-W701 ROHS			2
407	N/A	J1635-D363-00	SCREW+WASHER M 3 12 D 2 D=5.3 NI NONE SUS ROHS			6
408	N/A	P0Q38-2590-00	SPONGE-BLOWER100 VPJ-W701 ROHS			1
409	HW-00008416	J1635-C093-00	SCREW-WASHER TP 3 30 D 2 D=5.3 NI NONE SUS ROHS			5
410	N/A	P0Q38-2600-00	CUSHION-BLOWER VPJ-W701 ROHS			10
411	HW-00008415	J1635-B853-00	SCREW+WASHER M 3 6 D 2 D=5.3 NI NONE SUS ROHS			7
412	HW-00008414	J1635-A641-00	SCREW-WASHER TP 3 8 D 2 D=5.5 NI NONE SUS ROHS			36
413	N/A	P0J34-2040-00	THERMOSTAT COVER MPD-X510 00 FOR PAINTING ROHS			1
414	N/A	P0Q34-2010-00	CONNECTOR-COVER VPJ-W701 00 NO PAINTING ROHS PC+30%G			1
415	N/A	P0Q35-0610-00	SHEET LINK-AL VPJ-W701 00 NO PAINTING ROHS			1
416	CB-00008583	J2595-0258-00	WIRE CON-CON 1102003-135 MSK 4PIN L275MM 1571#28 ROHS			1
417	CB-00008584	J2595-0260-00	WIRE CON-CON 1102003-137 MSK 5PIN L310MM 1571#28 ROHS			1
418	N/A	P0Q35-7510-00	BALLAST SHIELDING BASE VPJ-W701 00 NO PAINTING ROHS			1
419	N/A	P0Q35-7540-00	GROUND BOTTOM VPJ-W701 00 NO PAINTING ROHS			1
420	N/A	J2344-0032-00	EMI CORE K5B T 14*7*8 PX1403IA KING CORE ROHS			6
421	N/A	P0Q34-7630-00	PINGOOD-FW-2L VPJ-W701 00 NO PAINTING ROHS NYLON			1
422	N/A	J4039-0067-00	EPE BAG. NO BRAND FOR PROJECTOR ROHS			1

Maintaining the Air Filter

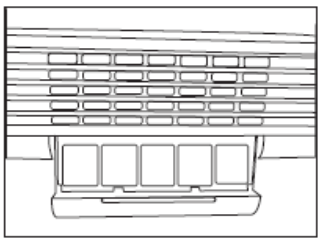
The air filter, which is located at the back of the projector, should be replaced or cleaned when warned by system either because 200 hours of use or rise of internal temperature. If it is not cleaned periodically, it can become clogged with dust and prevent the projector from being ventilated properly. This can cause over heating and damage the projector.

To clean the air filter:

1. Pull down the filter module cover.

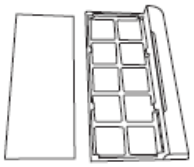


2. Remove the filter module cover.



3. Remove the dirty filter directly.

4. Attach the clean air-filter.



5. Attach the filter cover to the projector.

Replacing the Air Filter

The air filter should be replaced when cleaning is ineffective contact an authorized service center for the optional air filter.

NOTE

- Turn off the projector and remove the AC power cord from the power outlet before beginning maintenance work.
- Make sure the lens is cool before cleaning.
- Do not use detergents or chemicals other than those noted above. Do not use benzene or thinners.
- Do not use chemical sprays.
- Use a soft cloth or lens paper only.

* Reader's Response*

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content of this Service Manual?

Unit	*Excellent*	*Good*	*Fair*	*Bad*
1. Precautions and Safety Notices				
2. Specification				
3. Front Panel Function Control Description				
4. Circuit Description				
5. Adjustment Procedure				
6. Troubleshooting Flow Chart				
7. Recommended Spare Parts List				
8. Exploded Diagram and Exploded Parts List				
9. Block Diagrams				
10. Schematic Diagrams				
11.PCB Layout Diagrams				

B. Are you satisfied with this Service Manual?

Item	*Excellent*	*Good*	*Fair*	*Bad*
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinions or suggestions regarding this service manual?

Reader's basic dada:

Name:		**Title:**	
Company:			
Add:			
Tel:		**Fax:**	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director, Quality Systems & Processes (marc.maupin@viewsonic.com)