

[Print this page](#)**SERVICE MANUAL****LCD Color Television****40LV933G Ver. 1.00****Updating history**

Currently there are no updates available.
Please check back at a later time for any future
updates.

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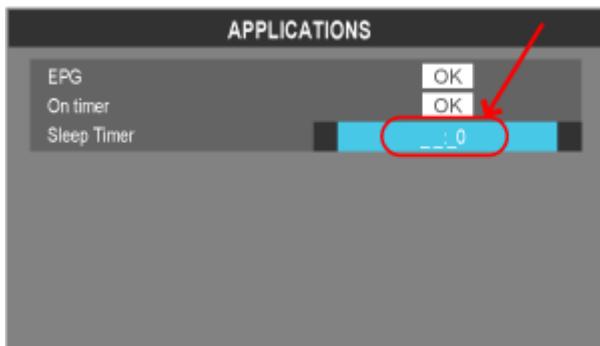
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DESTINATION SETTING CHANGE

Whenever replacing the Main PCB with new one, perform this procedure.

1. IR Key MENU → APPLICATIONS → Sleep Timer → OK.
2. When display __ : __ 0 input 4 numbers 2766.



The Factory menu will display.

Factory Menu	
	1 2 3
Brand:	TOSHIBA
Model Name:	32LV933/934G
Scaler:	MST3704
Panel Type:	AUO T315HW04-V406
PM Code:	Unknown
F/W Version:	v0.24 (PR)
Date:	Feb 17 2012, 10:25:17
Backlight Time:	8 hrs
Total Time:	9 hrs
HDCP KEY:	READY
CI Plus Key (MP):	READY
720x576@25i (MPEG-2)	

3. Move to Tag "3" by Right/Left Arrow key on the Remote.
4. Select "Model Type" cell.

Factory Menu	
	1 2 3
Quick Setup	Off
Reset to Def.:	NO
Model Type:	933/934G
EDID WP:	Enable
BD Module	Disable

BD Module	Disable
USB Port	USB 1
CEC Test	Disable
Dolby Test	Disable
EQ Settings	OK
Burnin Mode	Off
Update Mode	Normal

5. Select the appropriate model type by Right/Left Arrow key on the Remote. Model type is written on the rating label.



6. Select "Reset to Def".
7. Select "Yes" and press "OK" button on the Remote.

Factory Menu		
1	2	3
Quick Setup	Off	
Reset to Def.:	◀ YES ▶	
Model Type:	933/934G	
EDID WP:	Enable	
BD Module	Enable	
USB Port	USB 1	
CEC Test	Disable	
Dolby Test	Disable	
EQ Settings	OK	
Burnin Mode	Off	
Update Mode	Normal	

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FIRMWARE UPDATING PROCEDURE

Firmware Upgrade - USB

USB upgrade flow

1. Firmware upgrade.

Copy a Firmware BIN file to USB disk (root directory) with FAT 32.

For example the naming as below.

xx_xV_xL_DB_933x_022_REV00.bin, shall have difference version of firmware number show on red.

2. Plug USB disk into TV USB port.

3. IR key MENU → SETUP → Software Upgrade → USB Upgrade.

During F/W upgrade will display percent on the screen when is finished will shown a message on LCD screen then unplug USB disk. TV will auto reset and power on again.

Note:

Not allow copy more then 1 versions of firmware in USB disk.

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GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

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SAFETY INSTRUCTION

Handling the LCD Module

Safety Precaution

In the event that the screen is damaged or the liquid crystal (fluid) leaks, do not breathe in or drink this fluid.

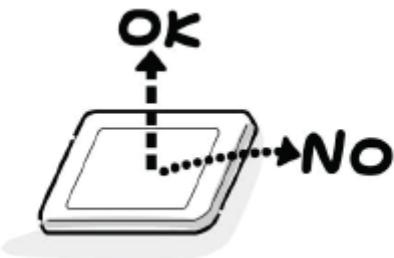
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the eyes, immediately rinse the eyes thoroughly with running water.

Precautions for Handling the LCD Module

CAUTION: The metal edges of the LCD module are sharp, handle it with care.

The LCD module can easily be damaged during disassembly or reassembly; therefore, always observe the following precautions when handling the module.

1. When attaching the LCD module to the LCD cover, position it appropriately and fasten at the position where the display can be viewed most conveniently.



2. Carefully align the holes at all four corners of the LCD module with the corresponding holes in the LCD cover and fasten with screws. Do not strongly push on the module because any impact can adversely affect the performance. Also use caution when handling the polarized screen because it can easily be damaged.



3. If the panel surface becomes soiled, wipe with cotton or a soft cloth. If this does not remove the soiling, breathe on the surface and then wipe again.

If the panel surface is extremely soiled, use a CRT cleaner as a cleaner. Wipe off the panel surface by drop the cleaner on the cloth. Do not drop the cleaner on the panel. Pay attention not to scratch the panel surface.



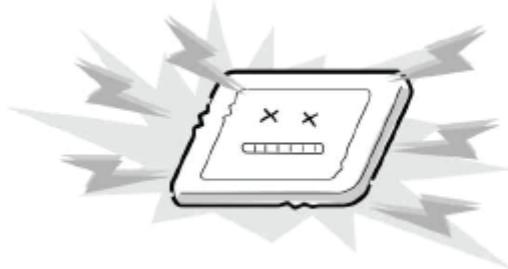
4. Leaving water or other fluids on the panel screen for an extended period of time can result in discoloration or stripes. Immediately remove any type of fluid from the screen.



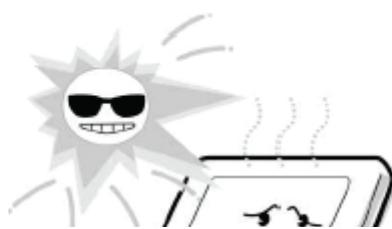
5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.

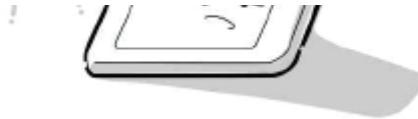


6. CMOS-LSI circuitry is used in the LCD module, so avoid damage due to static electricity. When handling the module, use a wrist ground or anchor ground.



7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.

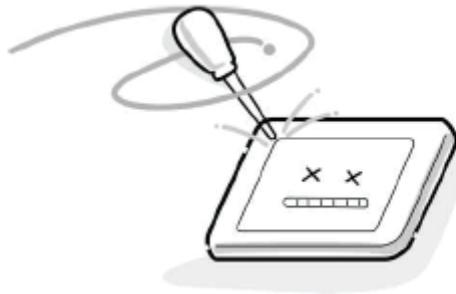




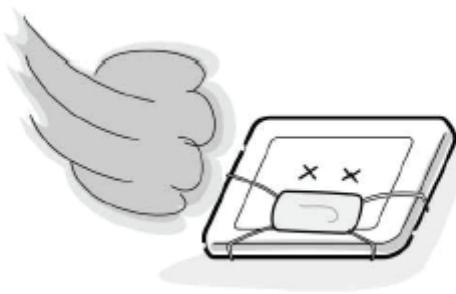
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

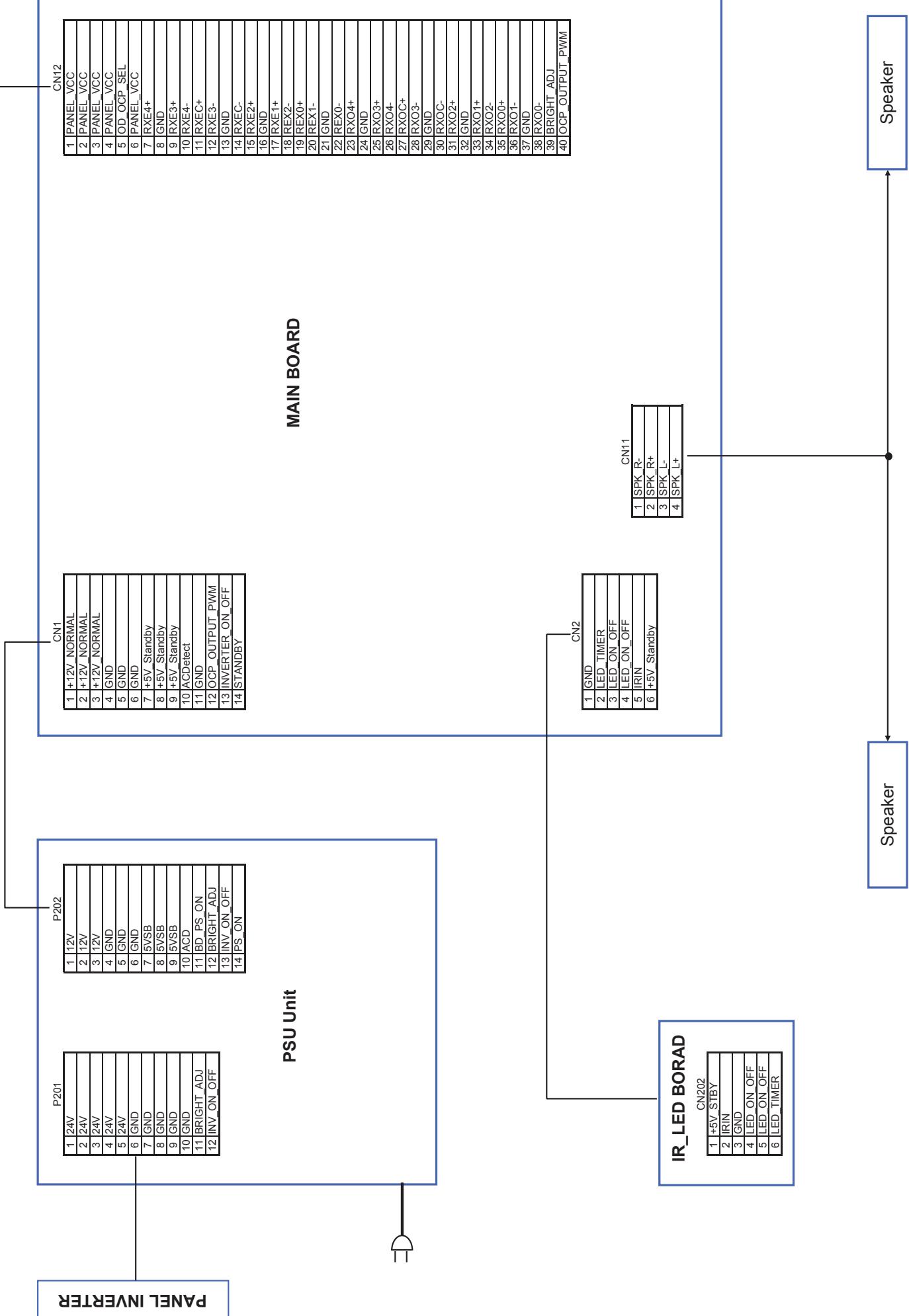


9. Do not disassemble the LCD module. Such actions could result in improper operation.



10. When transporting the LCD module, do not use packing containing epoxy resin (amine) or silicon resin (alcohol or oxim). The gas generated by these materials can cause loss of polarity.



PANEL (T-CON)

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LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

**WARNING: This product is manufactured using lead free solder.
DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!**

The melting temperature of lead-free solder is higher than that of leaded solder by 86°F to 104°F (30°C to 40°C). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product especially when soldering large components, through-hole pins, and on PCBs as the level of heat required to melt lead-free solder is high.

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PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals.
Before replacing any of these components, read carefully the "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE".

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with * mark is no longer available after the end of the production.

Abbreviations

Capacitors CD : Ceramic Disk

Resistors CF : Carbon film
OMF : Oxide Metal Film
PF : Plastic Film
CC : Carbon Composition
VR : Variable Resistor
EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

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ADJUSTMENT

Service Mode

Panel ID in Global Serial No.

Total digits	YWK	Model_ID	SERIAL	Panel
Max 14	YWK	xxx	*****	**
	<u>3 digits</u>	<u>3 digits</u>	<u>6 digits</u>	<u>2digits</u>
(M00001~M99999)				

YWK

Y : Year 8 2008

 9 2009

 A 2010

 B 2011

 C 2012

 . .

 . .

WK : Week 01 WK01

 02 WK02

 03 WK03

 04 WK04

 . .

 . .

 53 WK53

Model/Panel Information

Model	Model ID	Panel ID	Panel
19EL933RB	K86	L1	LC185EXE-TEA1
19EL934RB	K87	L1	LC185EXE-TEA1

23EL933RK	L22	K1	LTM230HT10
23EL934RK	L23	K1	LTM230HT10
26EL933B	K90	L1	LC260EXN-SDA3
26EL933G	K91	L1	LC260EXN-SDA3
26EL933RB	K93	L1	LC260EXN-SDA3
26EL934G	K94	L1	LC260EXN-SDA3
32EL933B	L27	L1	LC320EXN-SEA1
32EL933G	K96	L1	LC320EXN-SEA1
32EL933N	K98	L1	LC320EXN-SEA1
32EL933RB	K99	L1	LC320EXN-SEA1
32EL934G	L01	L1	LC320EXN-SEA1
32EL934RB	L02	L1	LC320EXN-SEA1
32HL933B	L17	K1	LTA320HN03
32HL933G	L16	K1	LTA320HN03
32HL933N	L30	K1	LTA320HN03
32HL933RK	L18	K1	LTA320HN03
40HL933B	L20	K1	LTA400HM22
40HL933G	L19	K1	LTA400HM22
40HL933N	L31	K1	LTA400HM22
40HL933RK	L21	K1	LTA400HM22

Model	Model ID	Panel ID	Panel
32AV933G	L03	L1	LC320WXN-SCC1
32AV933N	L28	L1	LC320WXN-SCC1
32AV933RB	L05	L1	LC320WXN-SCC1
32AV934G	L06	L1	LC320WXN-SCC1
32AV934RB	L07	L1	LC320WXN-SCC1
32LV933G	L08	A1	T315HW04 V4(REV.6)
32LV933N	L10	A1	T315HW04 V4(REV.6)
32LV933RB	L11	A1	T315HW04 V4(REV.6)
40LV933G	L12	K1	LTA400HM01
		K1	LTA400HM01
40LV933N	L29	C1	V400HJ2-L01
40LV933RB	L14	K1	LTA400HM01

Panel vendor

Marking	Panel Vendor	Marking	Panel Vendor	Marking	Panel Vendor
A	AUO	J		S	SHARP
B		K	SAMSUNG	T	
C	CMO	L	LPL/LGD	U	
D		M		V	
E		N		W	
F		P	CPT	X	
G		Q		Y	
H	IPS	R		Z	

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PARTS LIST

Updating history

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	Location	Parts No.	Description
	E200	75029559	PC BOARD ASSY, MAIN, 40LV933, 9C-EB40M00V0
⚠	E250	75029560	PC BOARD ASSY, POWER, 40LV933, 0433-006W000
	E270	75030142	IR BOARD ASSY, 90-EB40S02X0
⚠	E300	75026470	LCD PANEL, LTA400HM01
	E310	75029563	LVDS CABLE, 51P-40P 500MM, 40VL933, 1414-071Q000
⚠	E320	75029593	POWER CORD, 40LV933, 1411-019Y000
	E330	75029565	SPEAKER, 40LV933, 04A4-012X000
	E340	75029567	CABLE, SPEAKER, 40LV933, 1419-003N000
	E342	75029569	CABLE, INVERTER, 14P-12P 410MM, 40LV933, 1410-009K000
	E344	75029571	CABLE, M/B TO P/B, 14P-14P 360MM, 40LV933, 1414-072E000
	E346	75029573	CABLE, M/B TO I/R, 6P-6P 275MM, 40LV933, 1414-078L000
	E400	75014827	REMOCON HAND UNIT, CT-90326
⚠	E410	75029596	OWNERS MANUAL, G, 40LV933, 1506-0K6C000
	E412	75029597	EASY SET UP GUIDE, 40LV933, 1506-0K6H000
	E100	75029583	FRONT BEZEL ASSY, 40LV933G, 13EB-3CB0111
	E110	75029585	BACK COVER ASSY, 40LV933G, 13EB-3CB0301
	E120	75029557	STAND ASSY, 40LV933, 9C-EB40S01G0
	E125	75029558	SCREW, FOR STAND, 4MX12MM, 40LV933, 13EB-3DB0801
	E500	75029575	CARTON BOX, 40LV933, 1503-042R000
	E510	75029577	PACKING, TOP-LEFT, 40LV933, 1505-02Q1000
	E511	75029578	PACKING, TOP-RIGHT, 40LV933, 1505-02PQ000
	E512	75029579	PACKING, BOTTOM-LEFT, 40LV933, 1505-02Q2000
	E513	75029580	PACKING, BOTTOM-RIGHT, 40LV933, 1505-02PS000
	E520	75024573	EPE BAG, 40A2S, 1516-0106000
	E530	75029581	BAG, FOR STAND, 40LV933, 1516-01MD000

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SAFETY INSTRUCTION

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

Safety Precaution

WARNING: SERVICING SHOULD NOT BE ATTEMPTED BY ANYONE UNFAMILIAR WITH THE NECESSARY PRECAUTIONS ON THIS RECEIVER. THE FOLLOWING ARE THE NECESSARY PRECAUTIONS TO BE OBSERVED BEFORE SERVICING THIS CHASSIS.

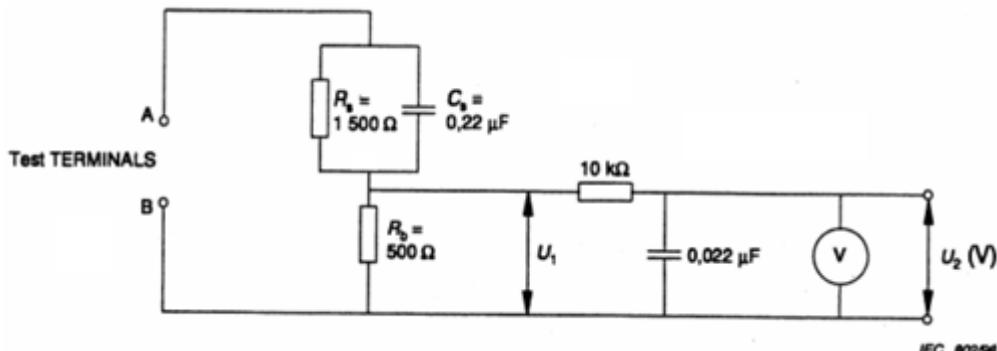
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always disconnect the power plug before any disassembling of the product. It may result in electrical shock.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
4. Always keep tools, components of the product, etc away from the children, These items may cause injury to children.
5. Depending on the model, use an isolation transformer or wear suitable gloves when servicing with the power on, and disconnect the power plug to avoid electrical shock when replacing parts. In some cases, alternating current is also impressed in the chassis, so electrical shock is possible if the chassis is contacted with the power on.
6. Always use the replacement parts specified for the particular model when making repairs. The parts used in products require special safety characteristics such as inflammability, voltage resistance, etc. therefore, use only replacement parts that have these same characteristics. Use only the specified parts when the  mark is indicated in the circuit diagram or parts list.
7. Parts mounting and routing dressing of wirings should be the same as that used originally. For safety purposes, insulating materials such as isolation tube or tape are sometimes used and printed circuit boards are sometimes mounted floating. Also make sure that wirings is routed and clamped to avoid parts that generate heat and which use high voltage. Always follow the manufactured wiring routes / dressings.
8. Always ensure that all internal wirings are in accordance before re-assembling the external casing after a repairing completed. Do not allow internal wiring to be pinched by cabinets, panels, etc. Any error in reassembly or wiring can result in electrical leakage, flame, etc.,

and may be hazardous.

9. NEVER remodel the product in any way. Remodeling can result in improper operation, malfunction, or electrical leakage and flame, which may be hazardous.
10. Touch current check. (After completing the work, measure touch current to prevent an electric shock.)
 - Plug the AC cord directly into the AC outlet. Do NOT use an isolation transformer for this check.
 - Connect a measuring network for touch currents between each exposed metallic part on the set and a good earth ground such as a water pipe.

Annex D
(normative)

Measuring network for TOUCH CURRENTS



Resistance values in ohms (Ω).

V: Voltmeter or oscilloscope
(r.m.s. or peak reading)

Input resistance : $\geq 1 \text{ M}\Omega$
Input capacitance : $\leq 200 \text{ pF}$
Frequency range : 15 Hz to 1 MHz and d.c. respectively

Note: Appropriate measures should be taken to obtain the correct value in case of non sinusoidal waveforms.

The measuring instrument is calibrated by comparing the frequency factor of U_2 with the solid line in figure F.2 of IEC 60990 at various frequencies. A calibration curve is constructed showing the deviation of U_2 from the ideal curve as a function of frequency.

TOUCH CURRENT = $U_2 / 500$ (peak value).

- The potential at any point (TOUCH CURRENT) expressed as voltage U_1 and U_2 does not exceed the following value:

The part or contact of a TERMINAL is not HAZARDOUS LIVE if:

THE PART OF CONTACT OF A TERMINAL IS NOT HAZARDOUS LIVE II.

- a) The open-circuit voltage should not exceed 35 V (peak) a.c. or 60 V d.c. or, if a) is not met.
- b) The measurement of the TOUCH CURRENT shall be carried out in accordance with IEC 60990, with the measuring network described in **Annex D** of this standard.

The TOUCH CURRENT expressed as voltages U_1 and U_2 , does not exceed the following values:

- for a.c. : $U_1 = 35$ V (peak) and $U_2 = 0.35$ V (peak);
- for d.c. : $U_1 = 1.0$ V

Note: The limit values of $U_2 = 0.35$ V (peak) for a.c. and $U_1 = 1.0$ V for d.c. correspond to the values 0.7 mA (peak) a.c. and 2.0 mA d.c.

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Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create electrical shock, fire, or other hazards.

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UNDER CONSTRUCTION

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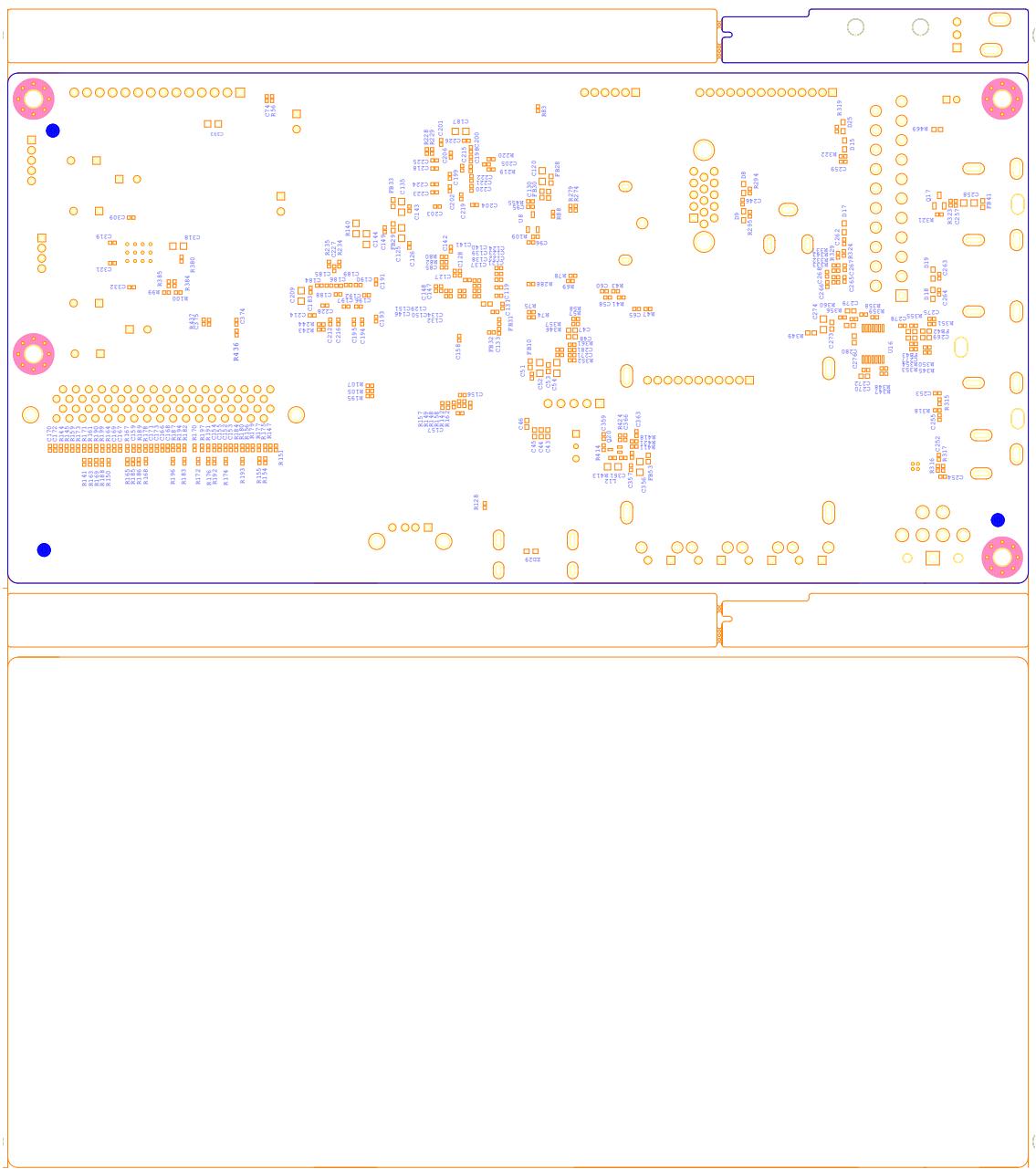
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REVISION HISTORY

SCHEMATIC Name	Date	Author	Ver	Comments
01.Contents	2011/09/07	CM/Jason	1.00	For SR stage.

Unihan	Title :	Contents&History
MAINBOARD		
Version	Project Name	Rev
B	xxz(L)V993/xxz(H)L533	1.01
Date	Tuesday, December 05, 2011	Sheet 1 of 3

2

3

5

3

A

D

C

B

A

1

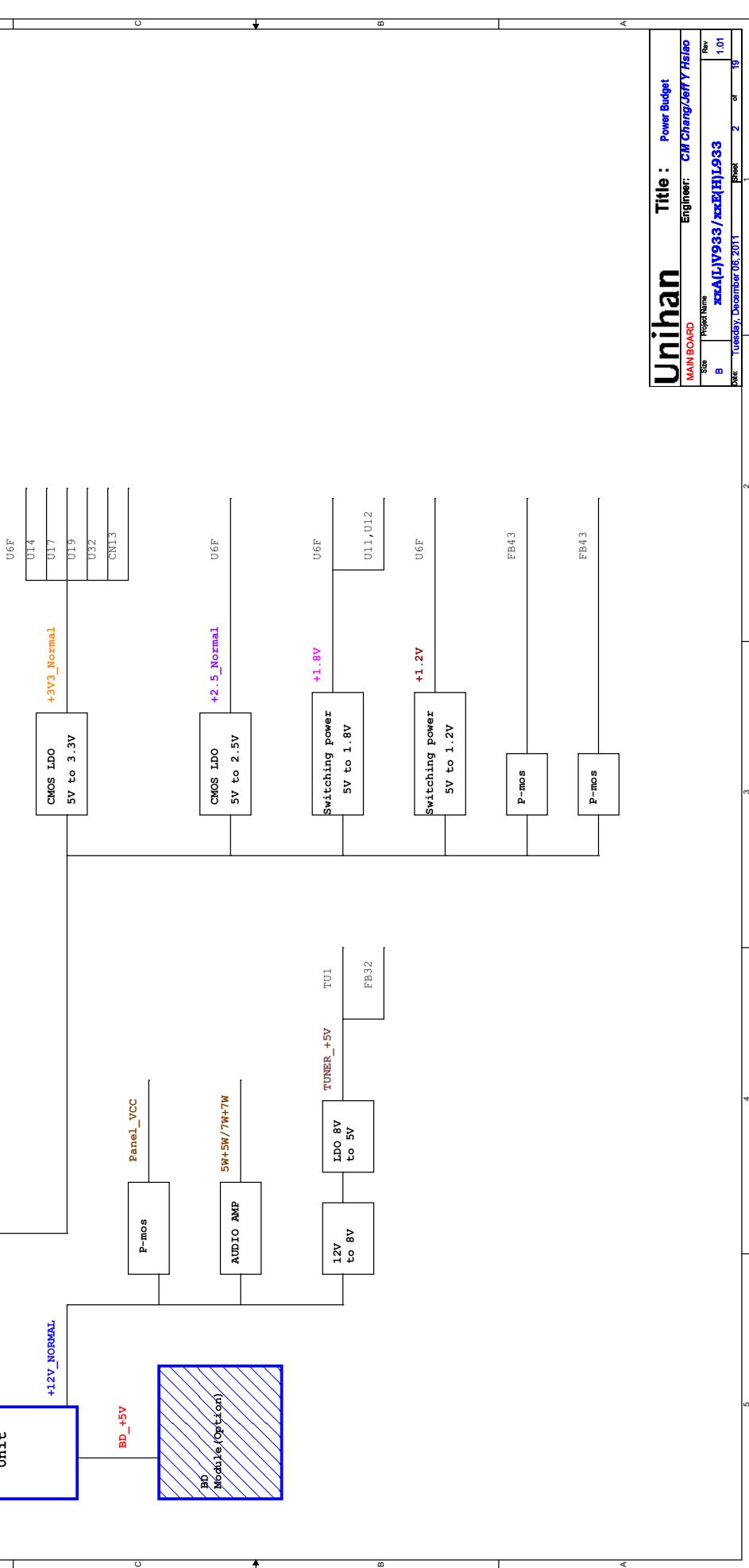
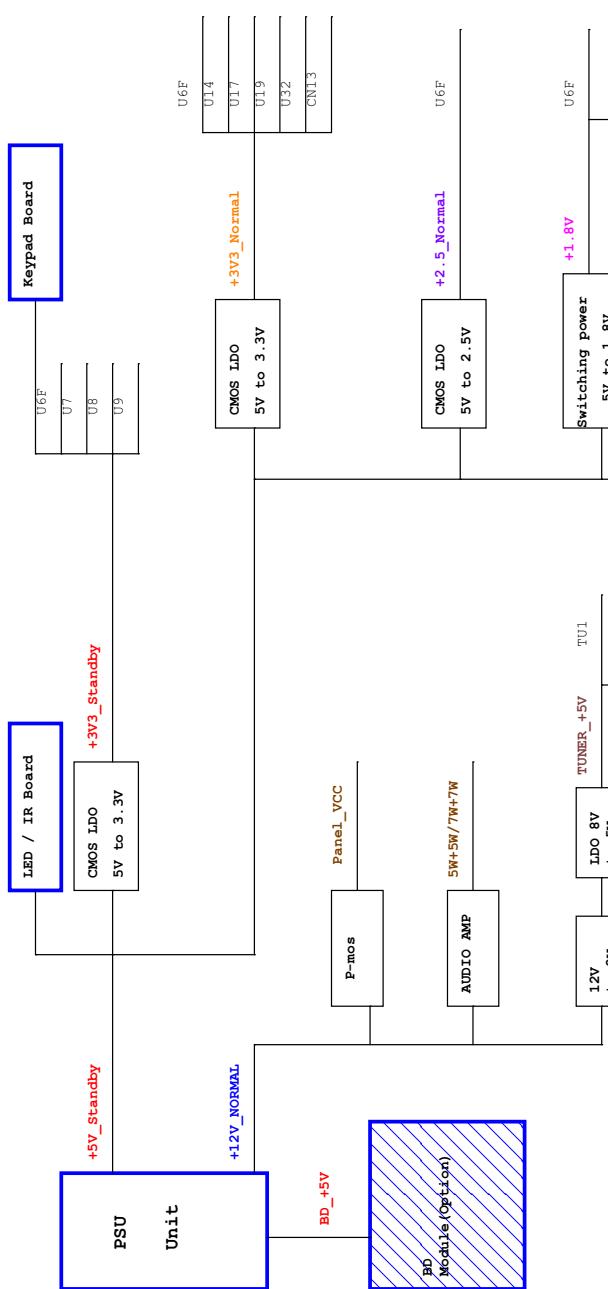
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3

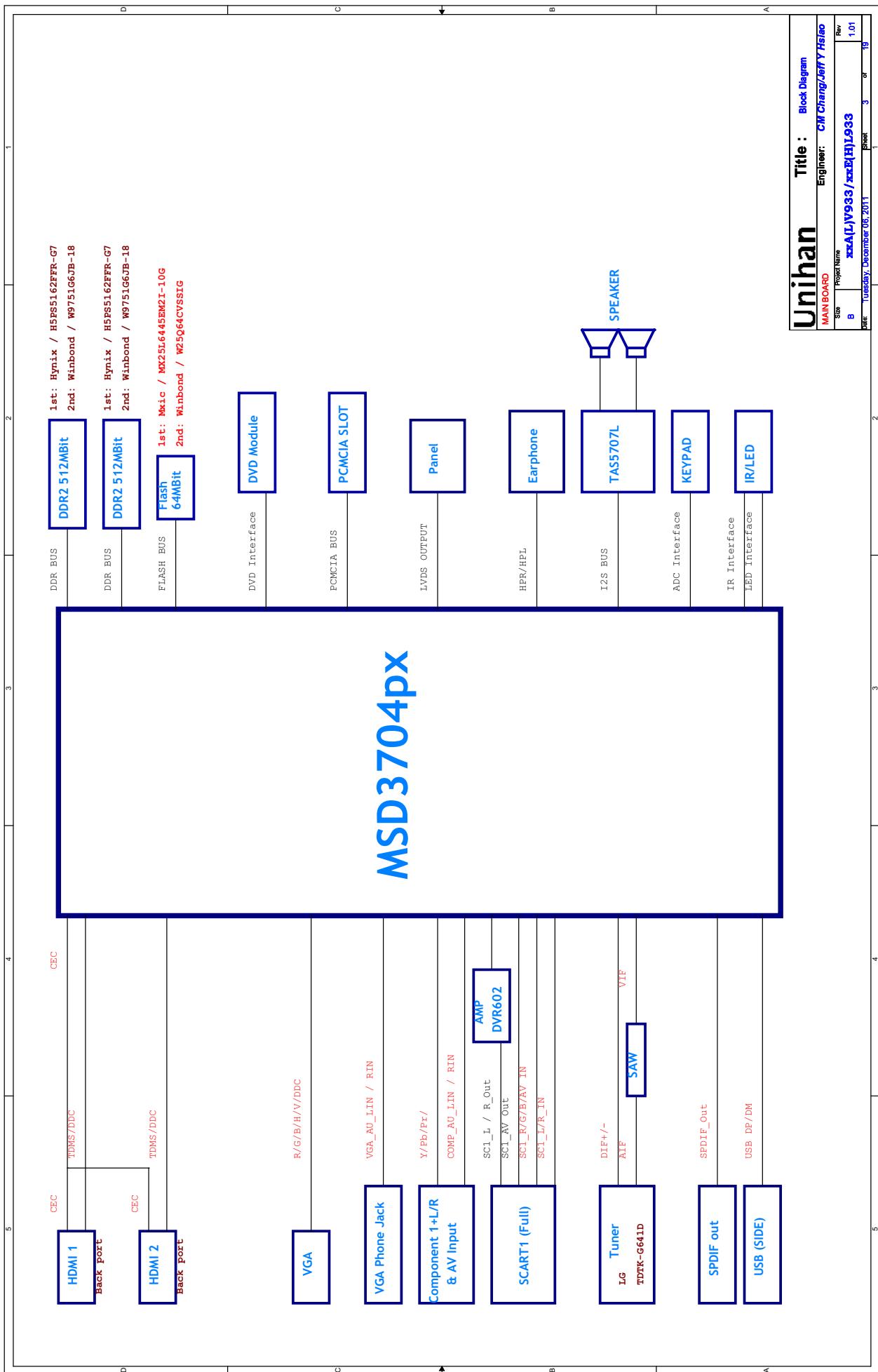
4

5

Power Block Diagram

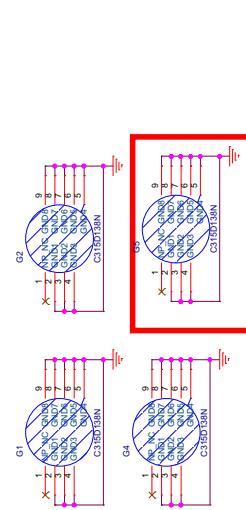
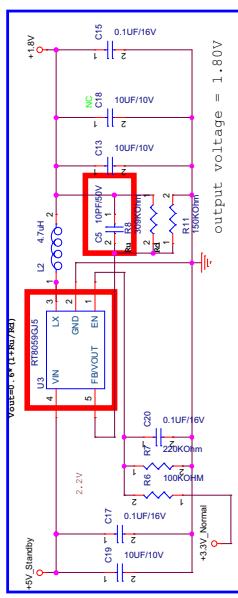


Unihan		Title :	Power Budget
MAINBOARD		Engineer:	C/M Chang/Jeff Y Hsieh
Ref	Project Name	Ref	
B	xxal[L]V993/xxEH[L]L533	Ver	1.01
Date	Tuesday, December 06, 2011	Sheet	2 of 3

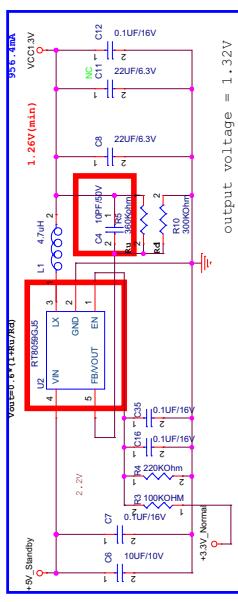


Unihan	Title :	Block Diagram
MAINBOARD	Engineer:	C/M Chang/Jeff Y Hsieh
Ref	Project Name	xxal[L]V993/xxal[H]L533
B	Version	1.01
Date	Tuesday, December 06, 2011	Sheet
2	3	4

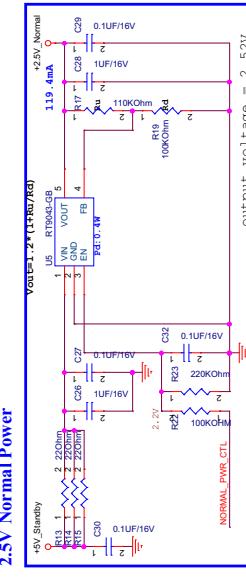
1.8V Normal Power



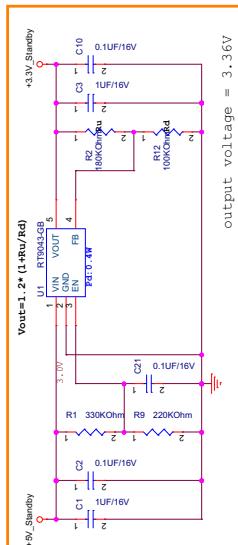
1.3V Normal Power



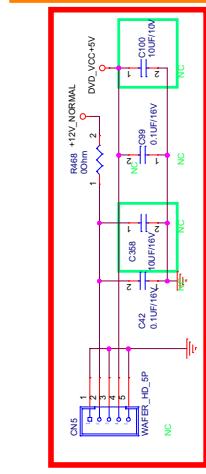
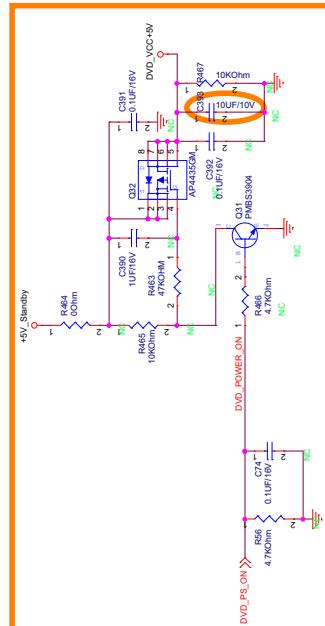
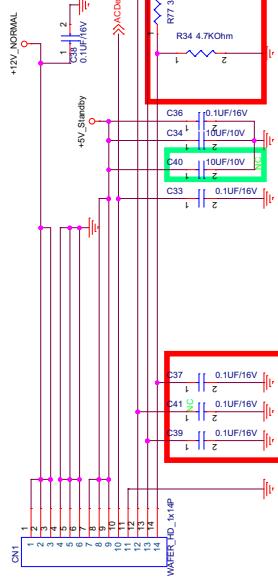
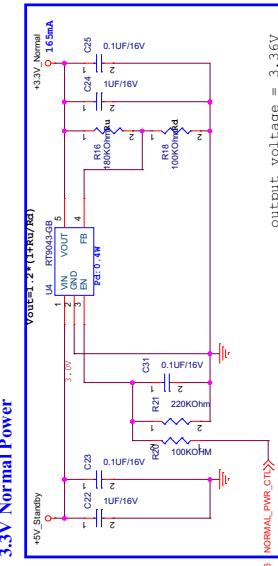
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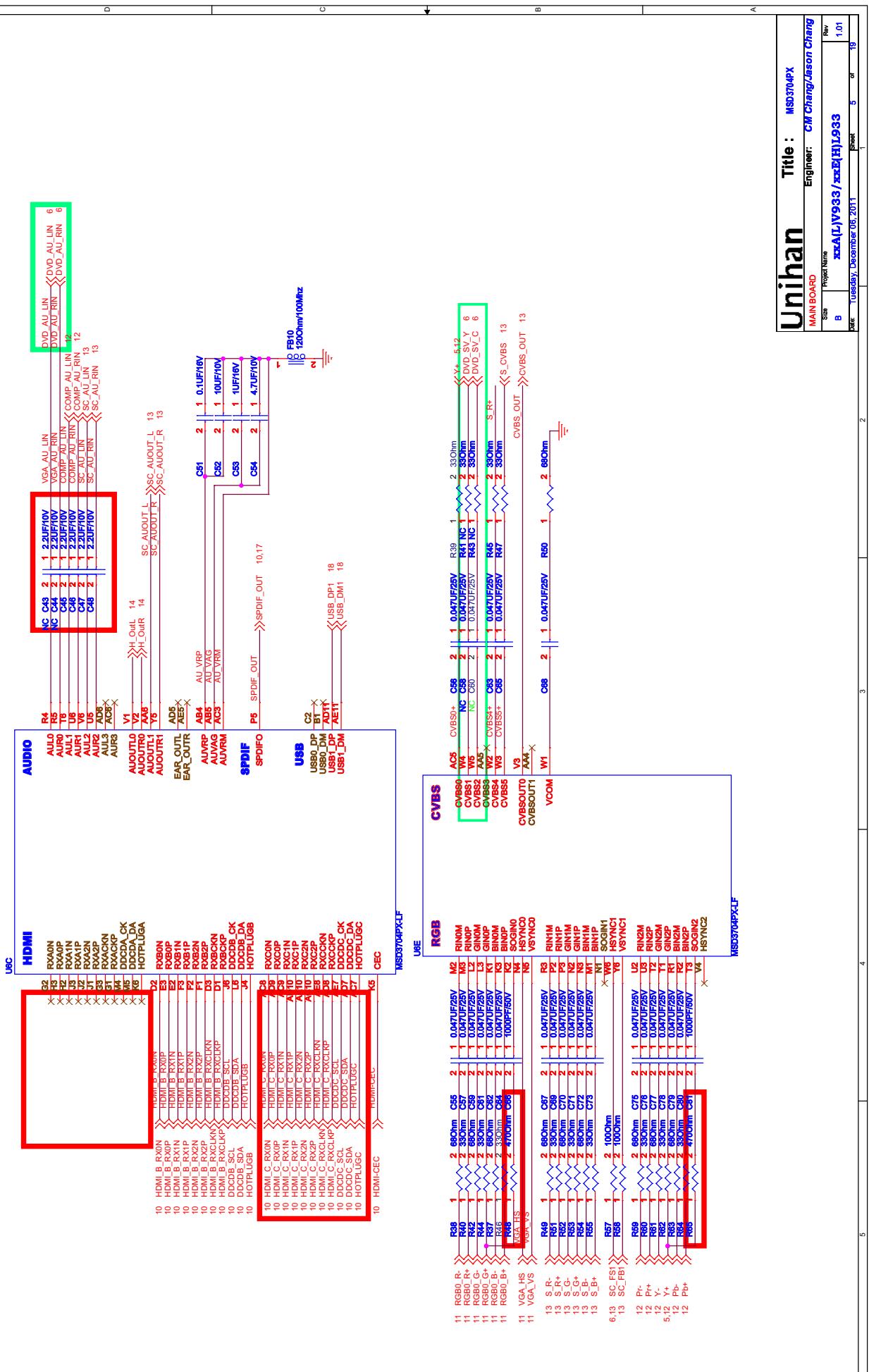


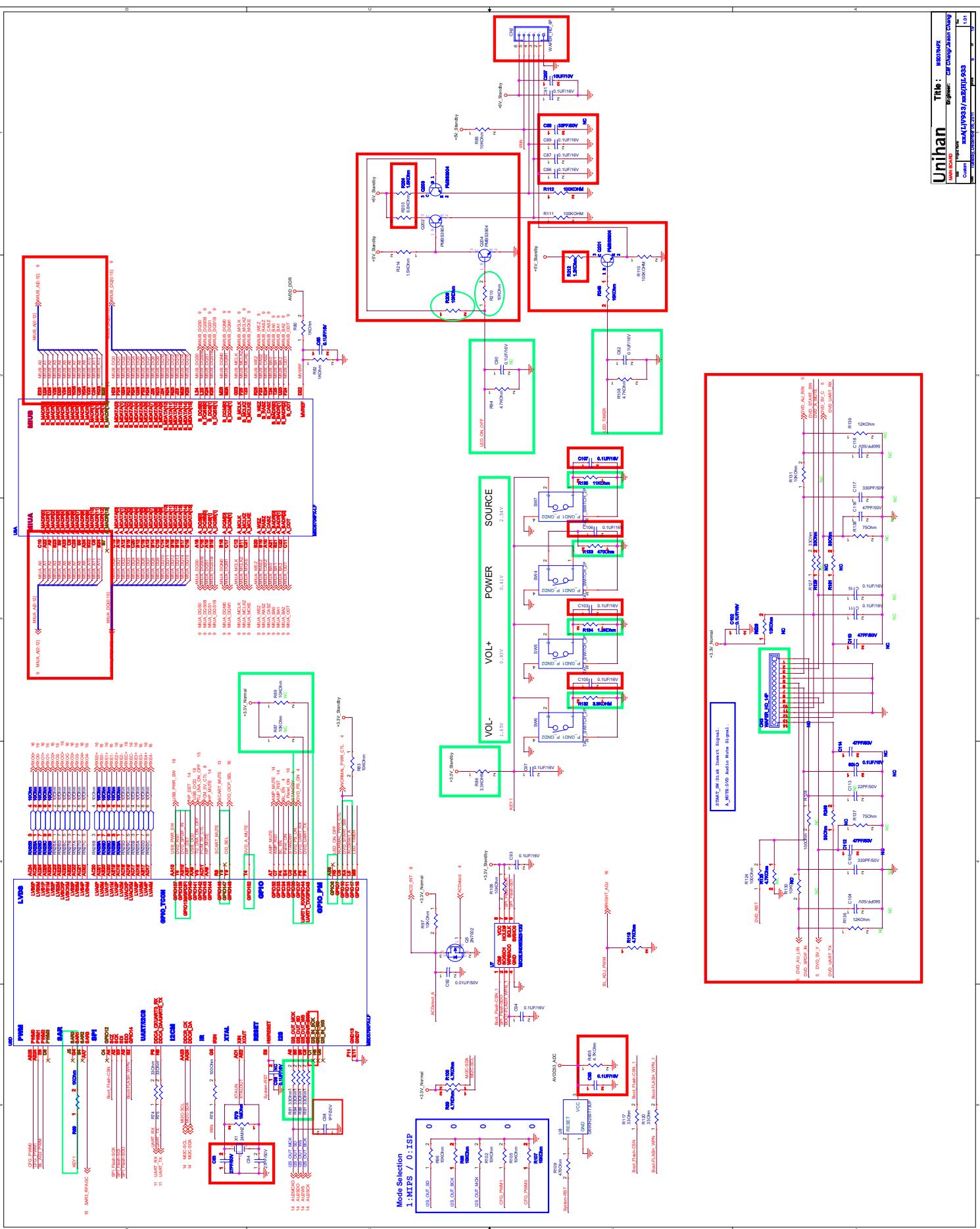
3.3V Standby Power

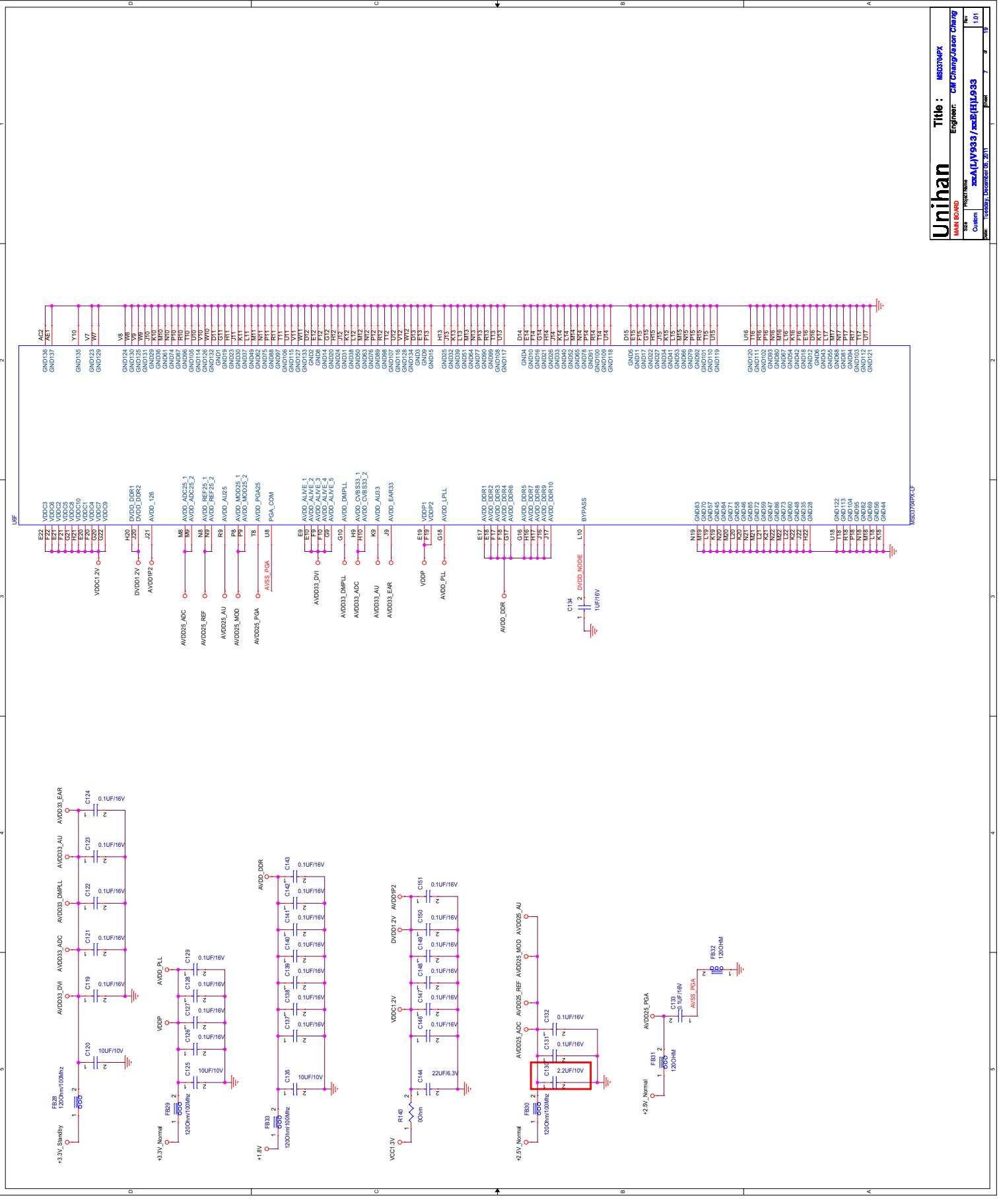


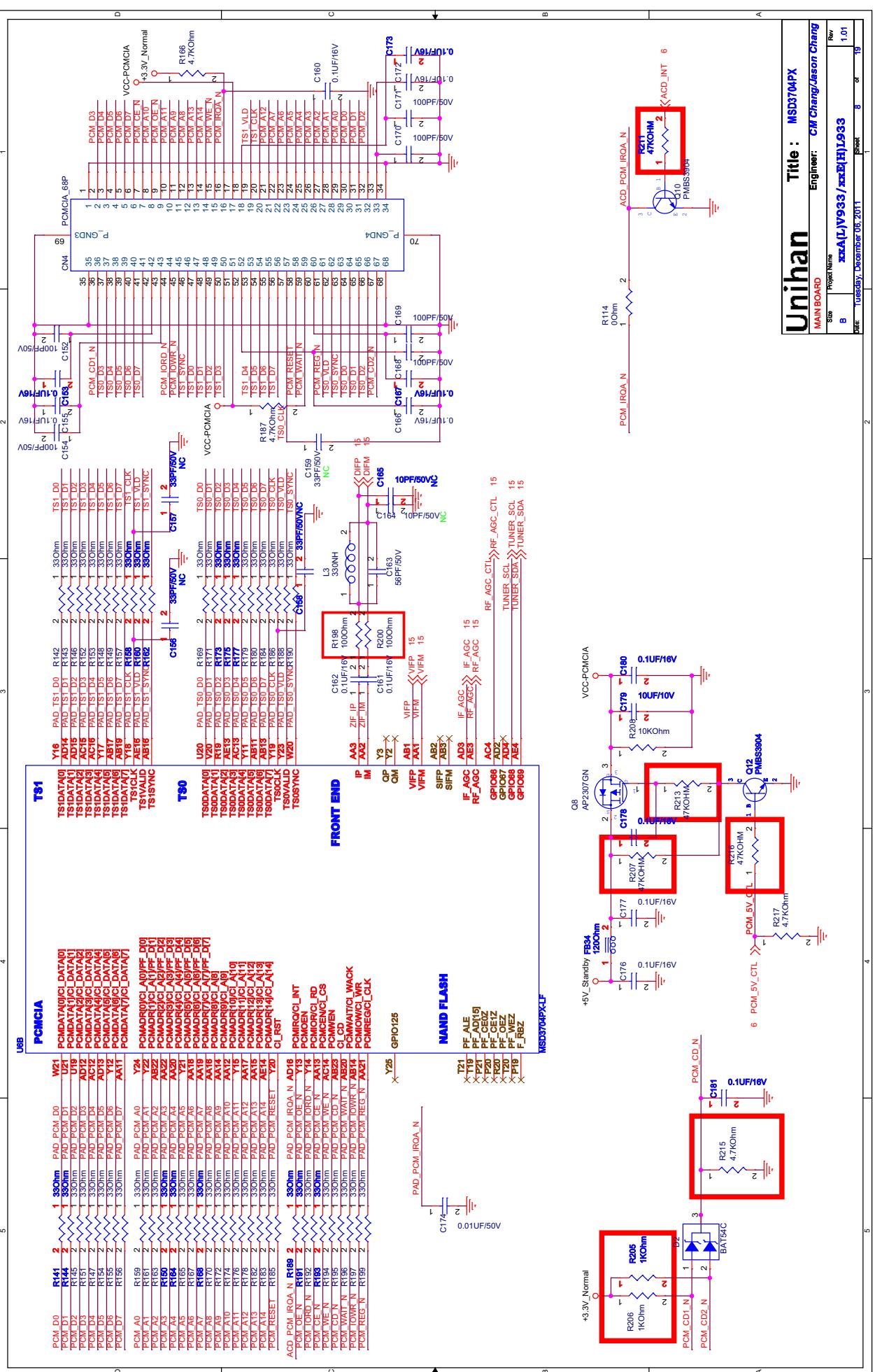
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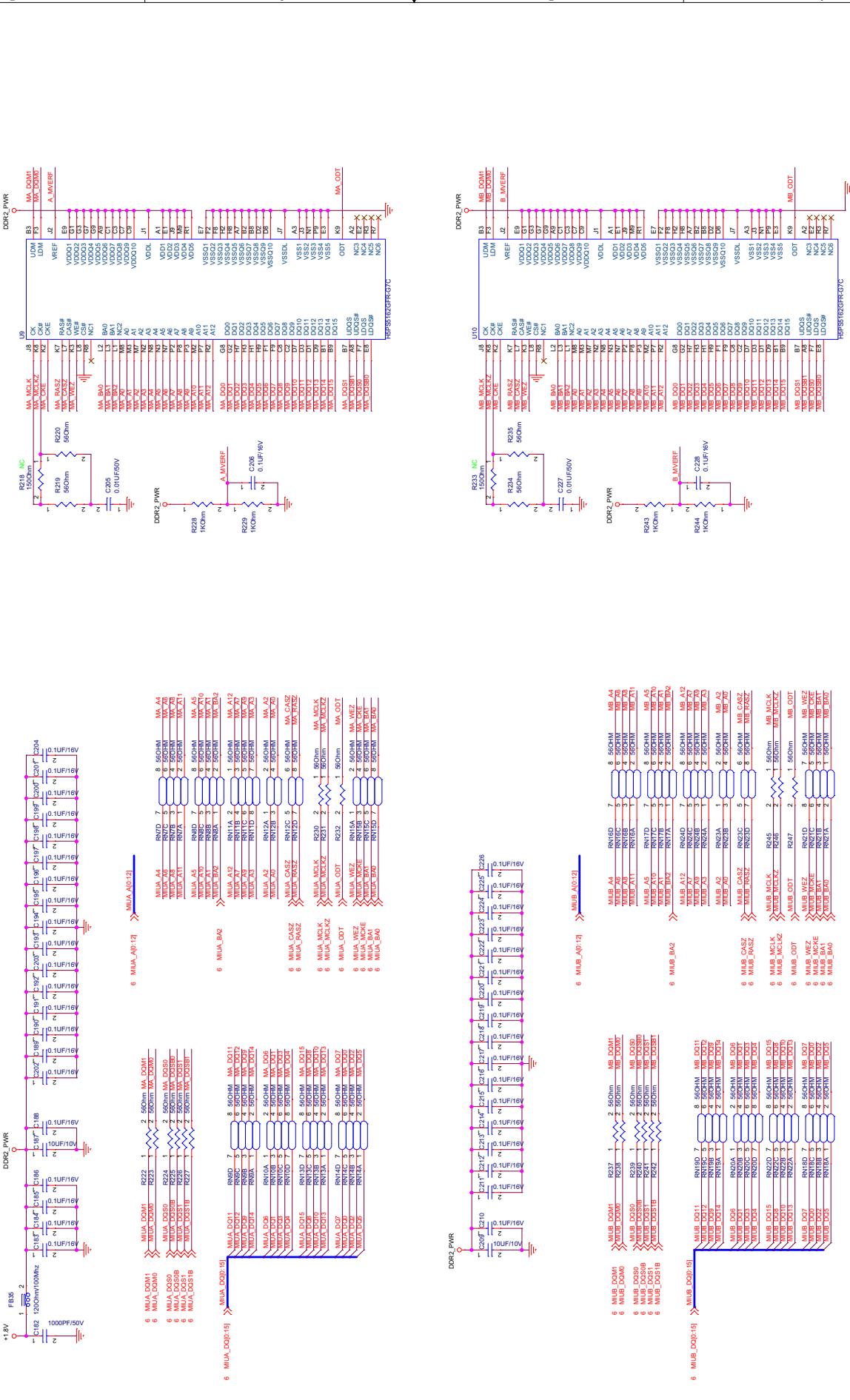


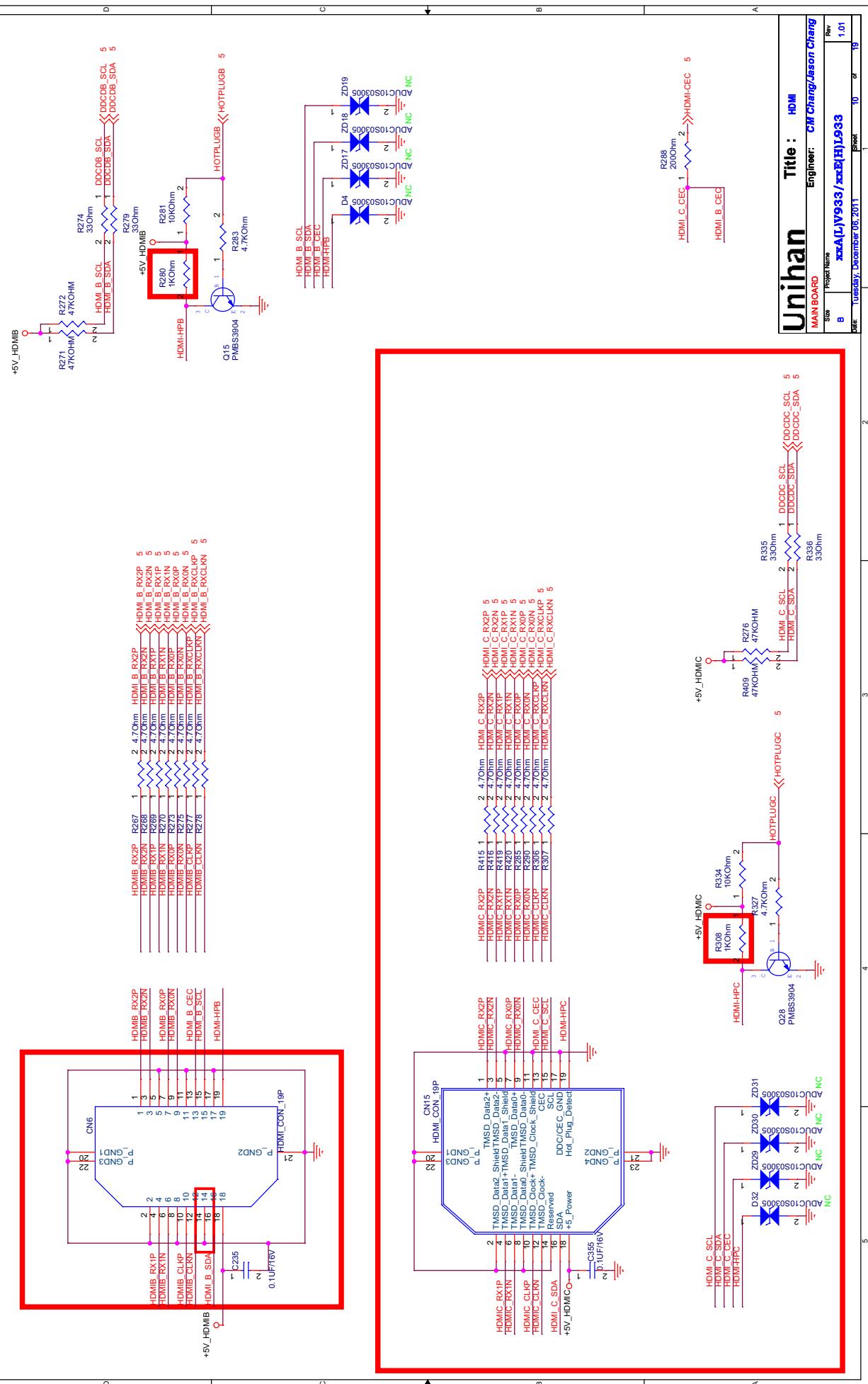


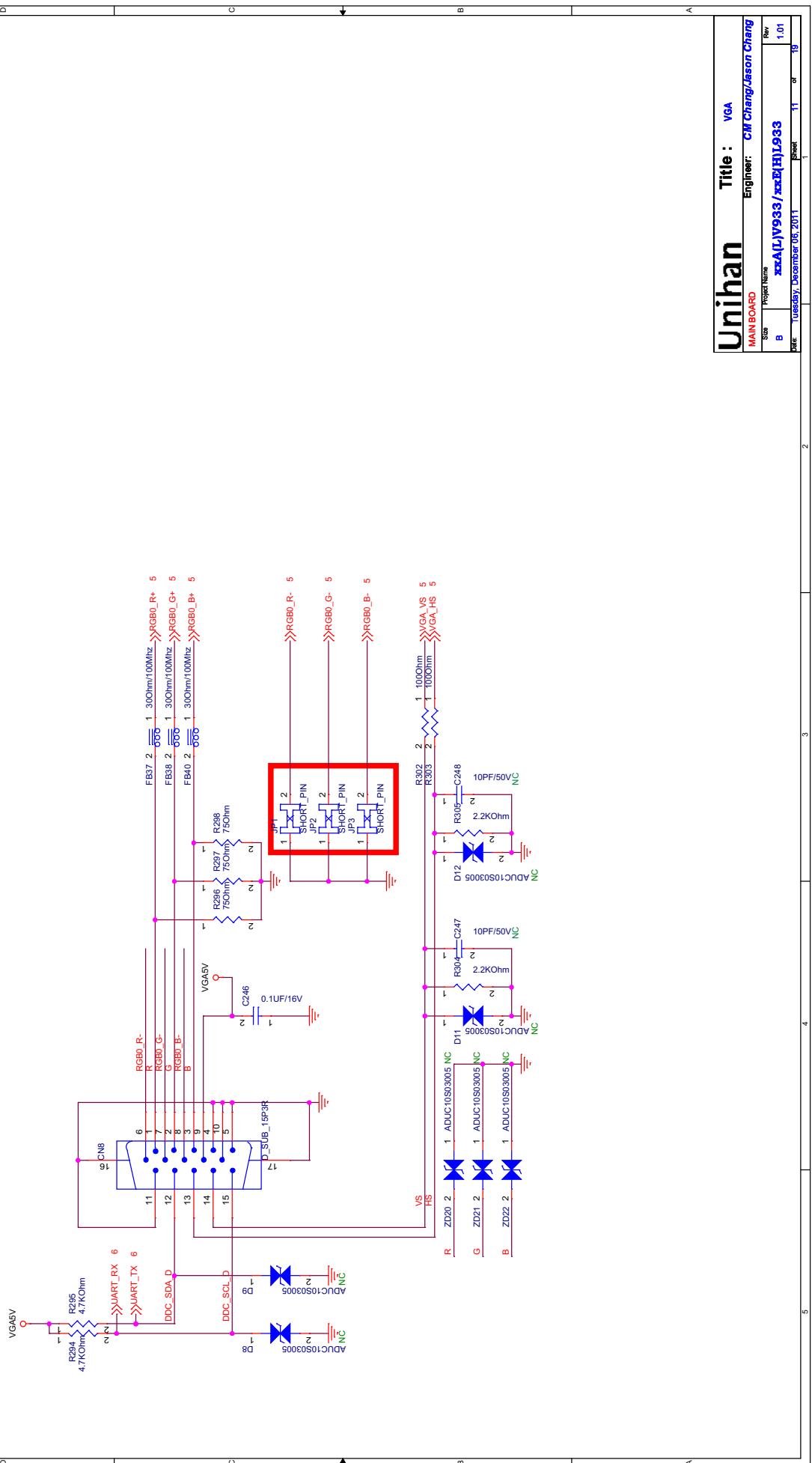




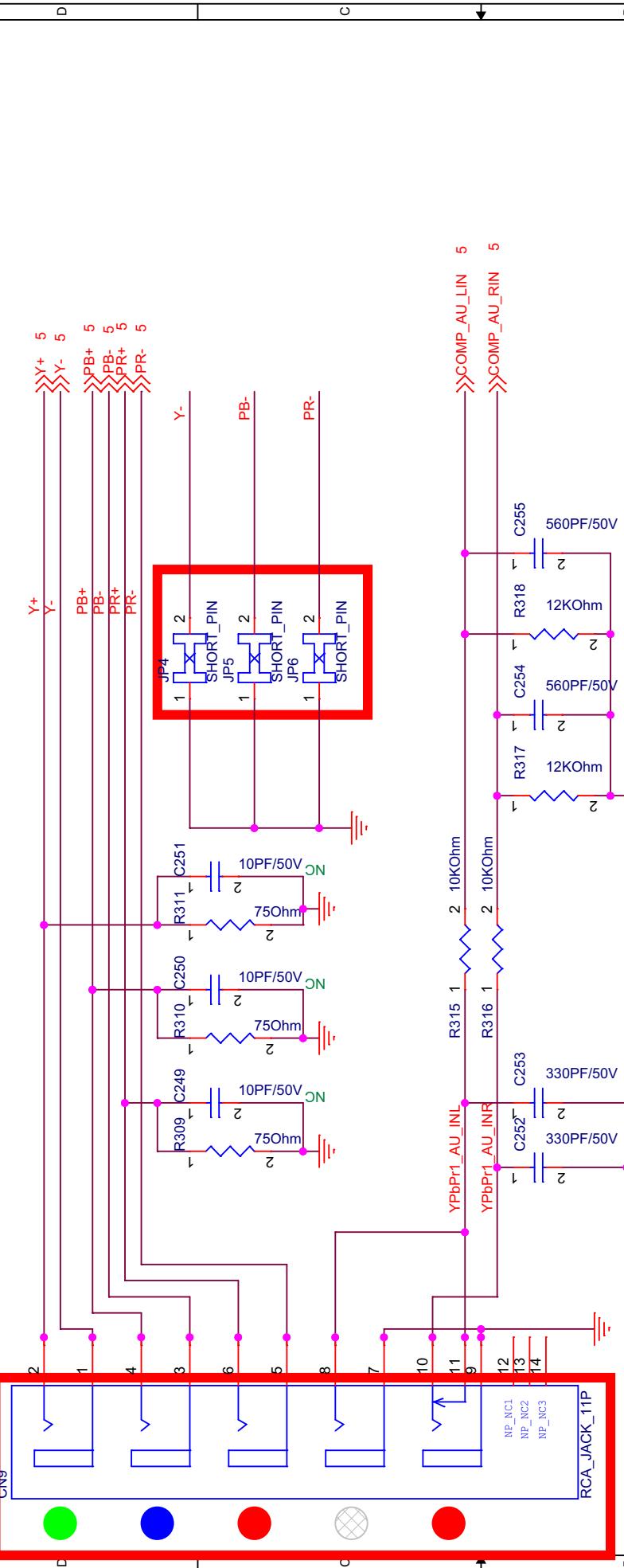






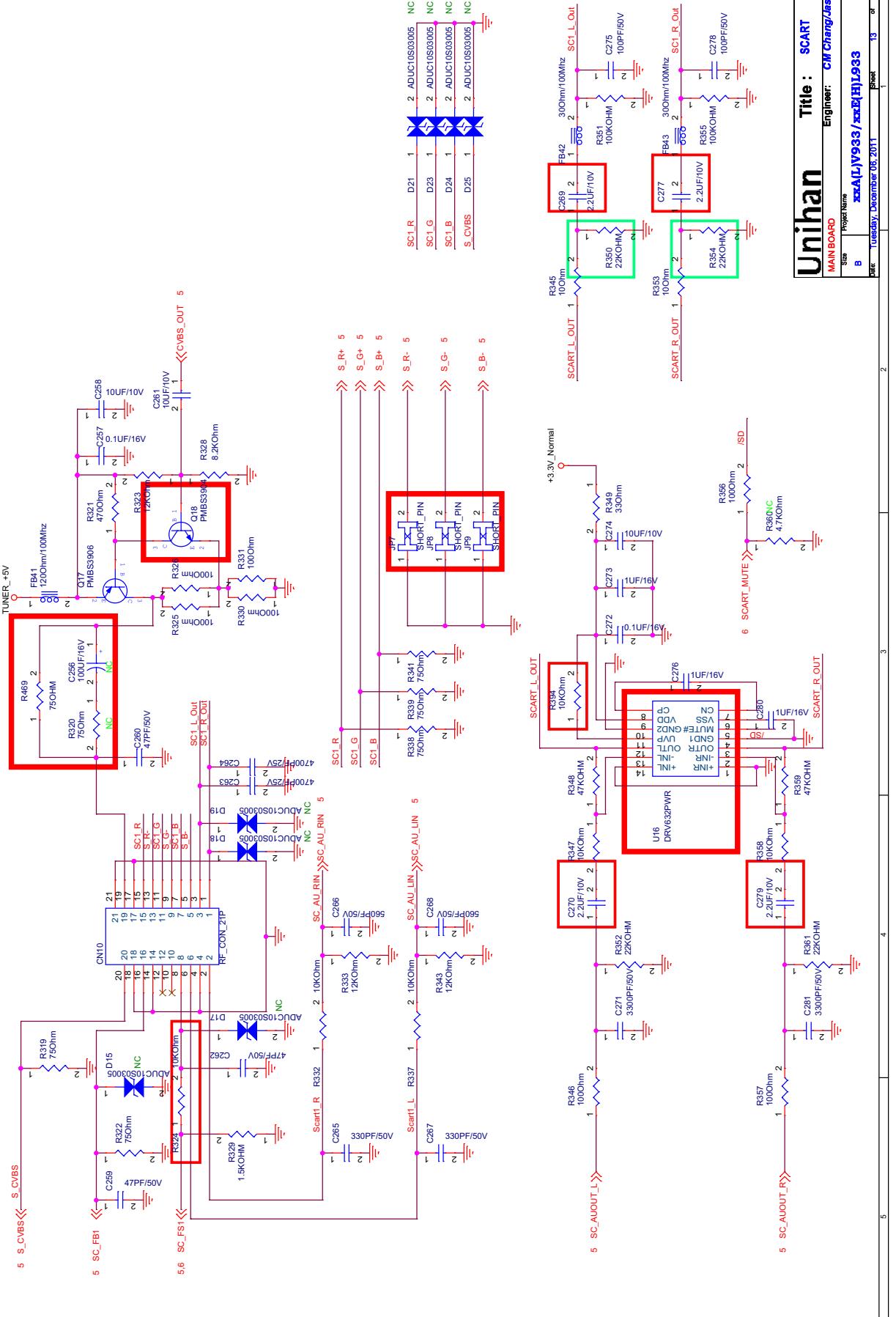


COMPONENT (Y Mix CVBS Input)

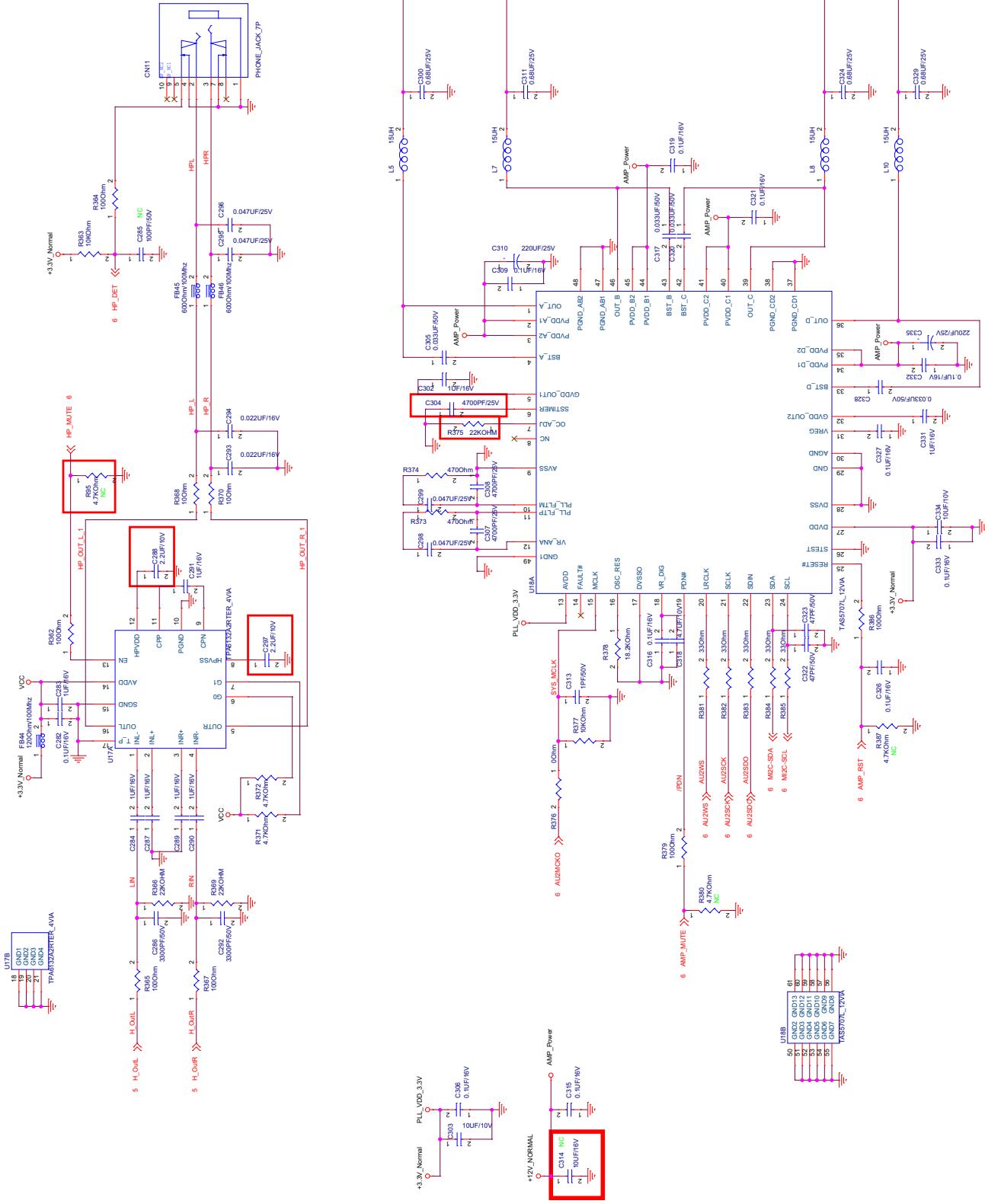


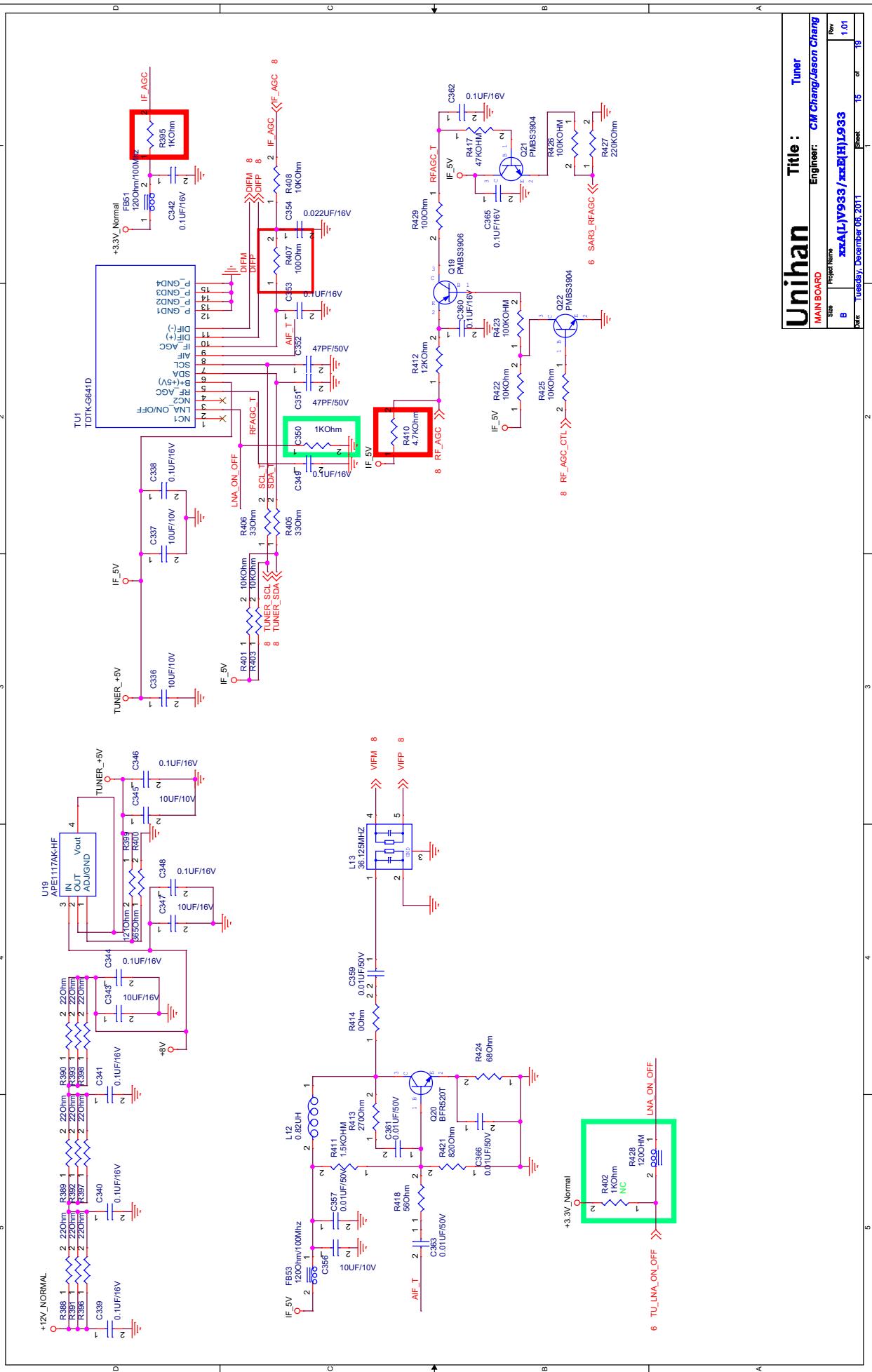
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		Engineer:	<i>CM Chang/Jason Chang</i>	
MAIN BOARD		Project Name	xxA(L)V933/xxE(H)L933	
Size	A	Date:	Tuesday, December 06, 2011	Rev 1.01 of 19

MAIN BOARD Project Name: **xxA(L)V933/xxE(H)L933** Rev: **1.01**
Size: **A** Date: **Tuesday December 06, 2011** Street: **12** of **19**
Engineer: *CM Chang/Jason Chang*



Unihan Title : SCART
Engineer: CM Chang/Jason Chang
MAINBOARD Project Name: **LJY933/SCART**
Rev: 1.01
B Date: Tuesday, December 06, 2011
Page: 13 of 13





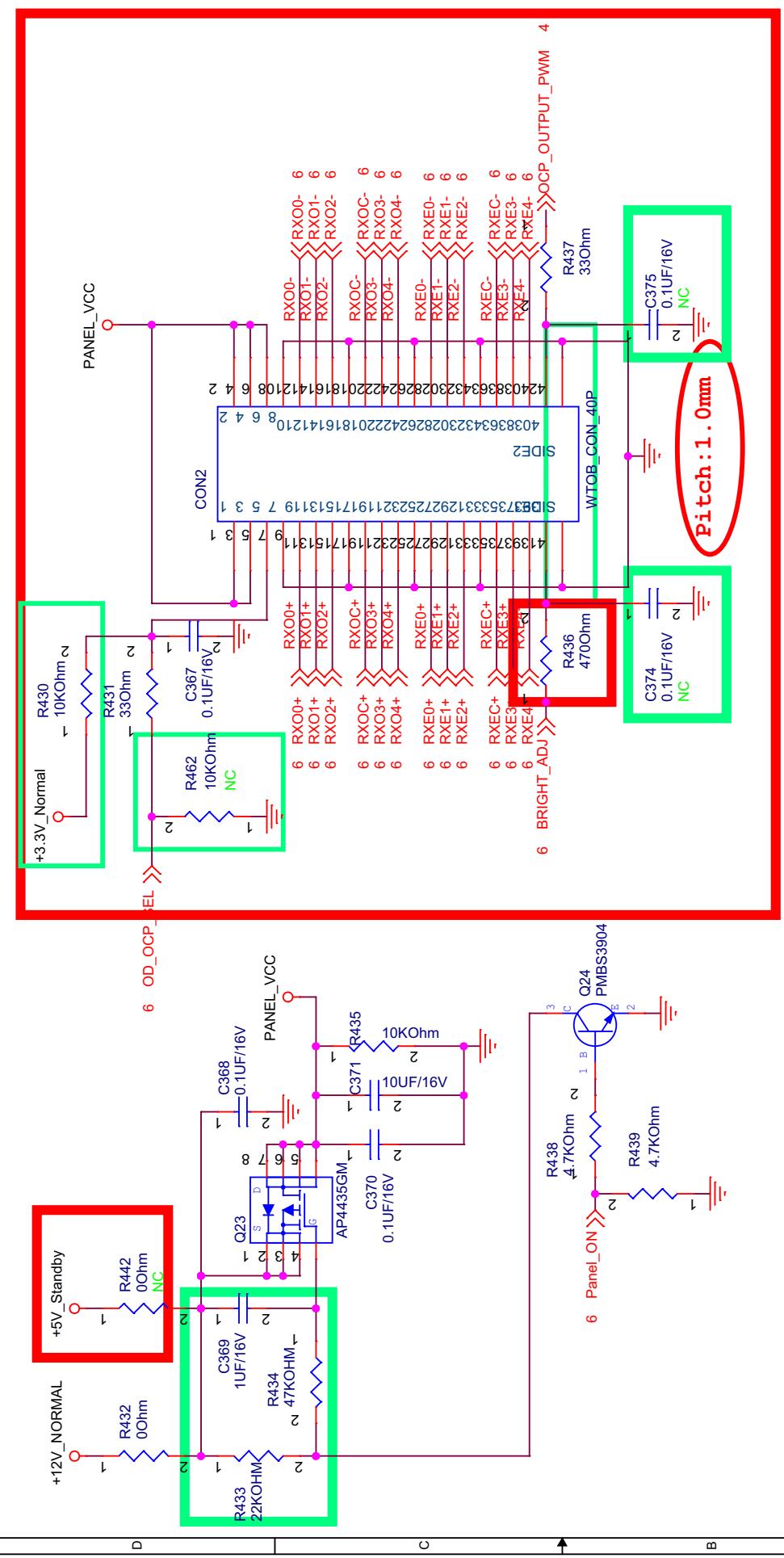
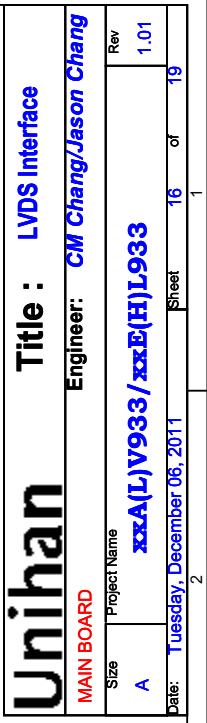
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B		Date:	Tuesday, December 05 2011
2		Page:	15
3		Page:	3

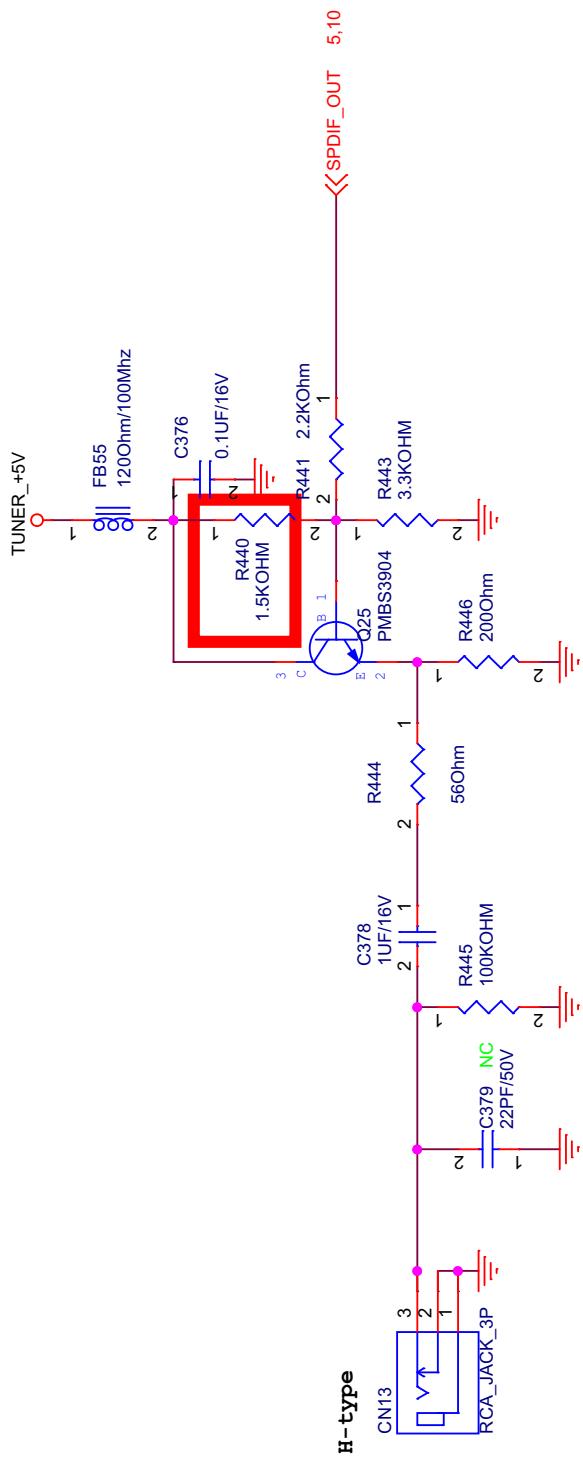
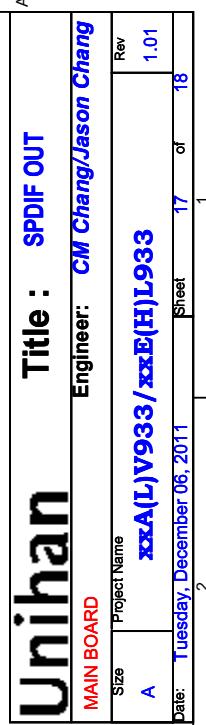
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Ver : 3

Page : 2

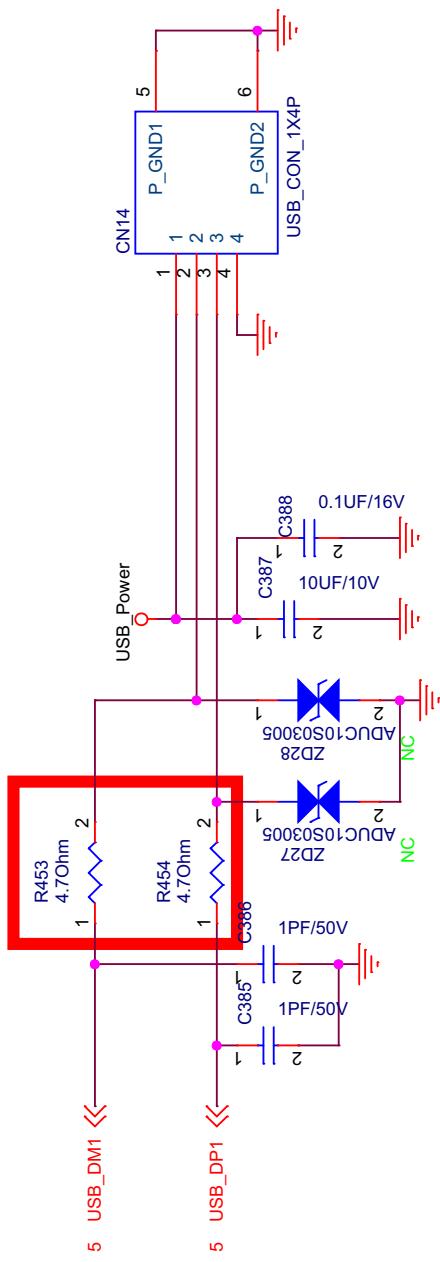
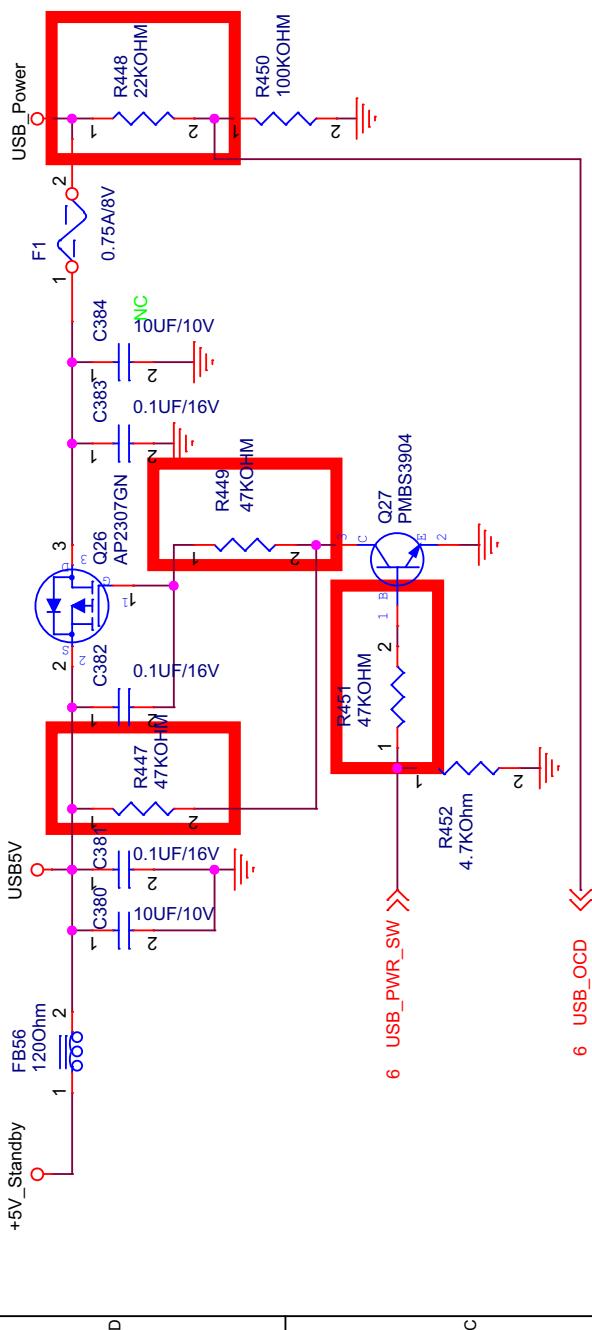




Unihan Title : **USB**

MAIN BOARD		Rev
Size	Project Name	
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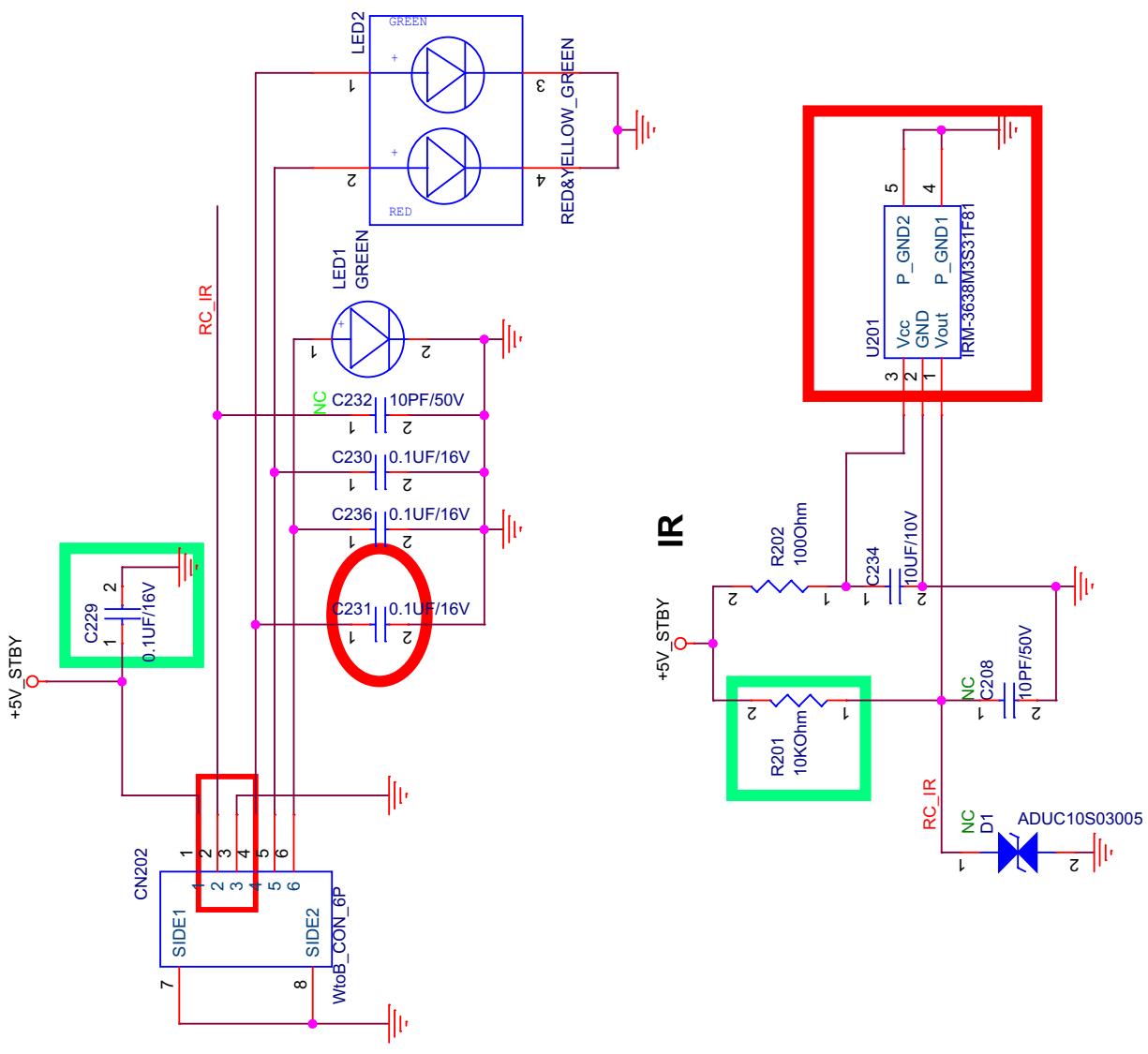
Date: Tuesday, December 06, 2011 Sheet 18 of 18

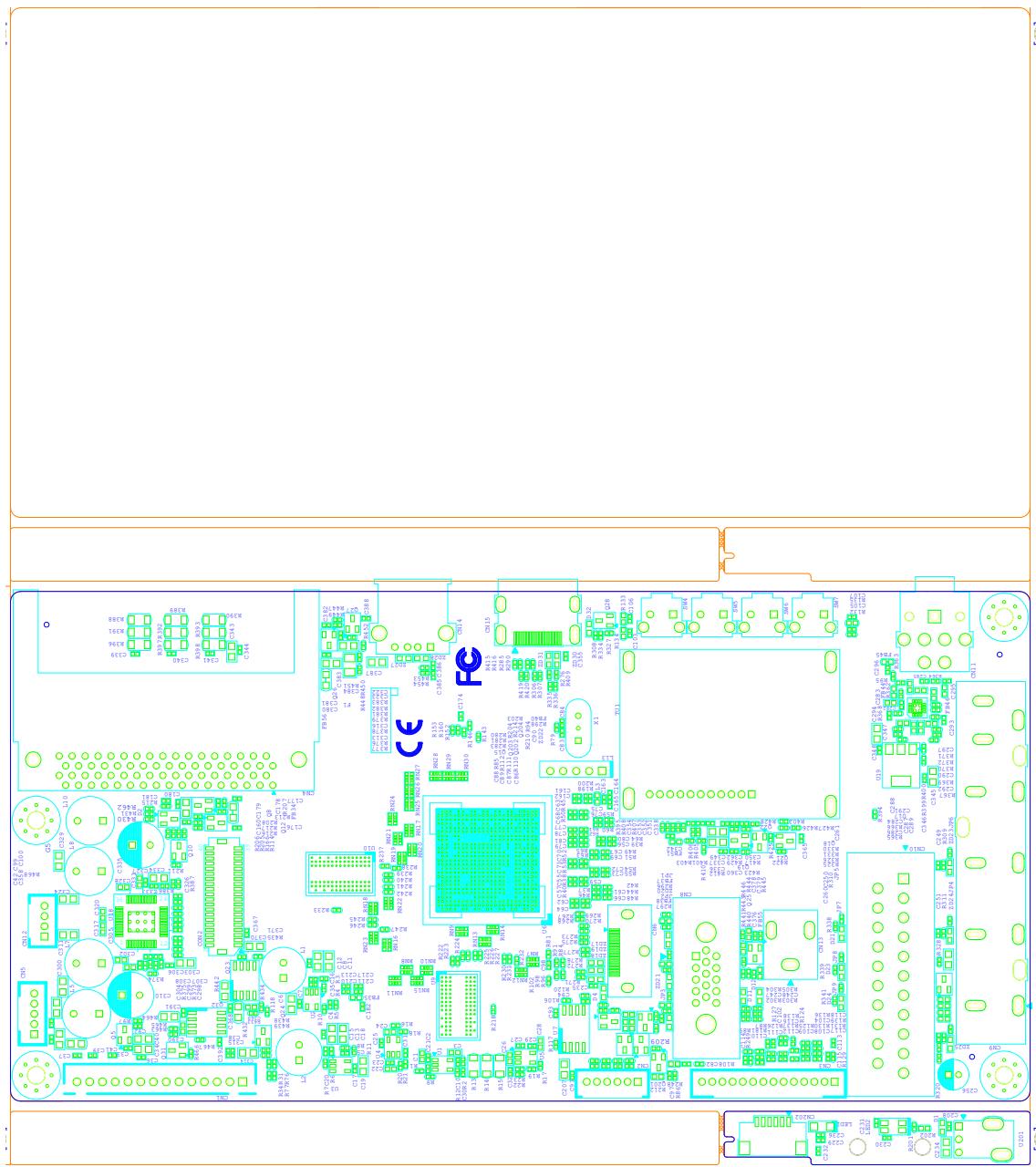


Unihan Title : **IR**

Engineer: **CM Chang/Jason Chang**

MAIN BOARD	Project Name	Rev
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Date:	Tuesday, December 06, 2011	Sheet 19 of 19

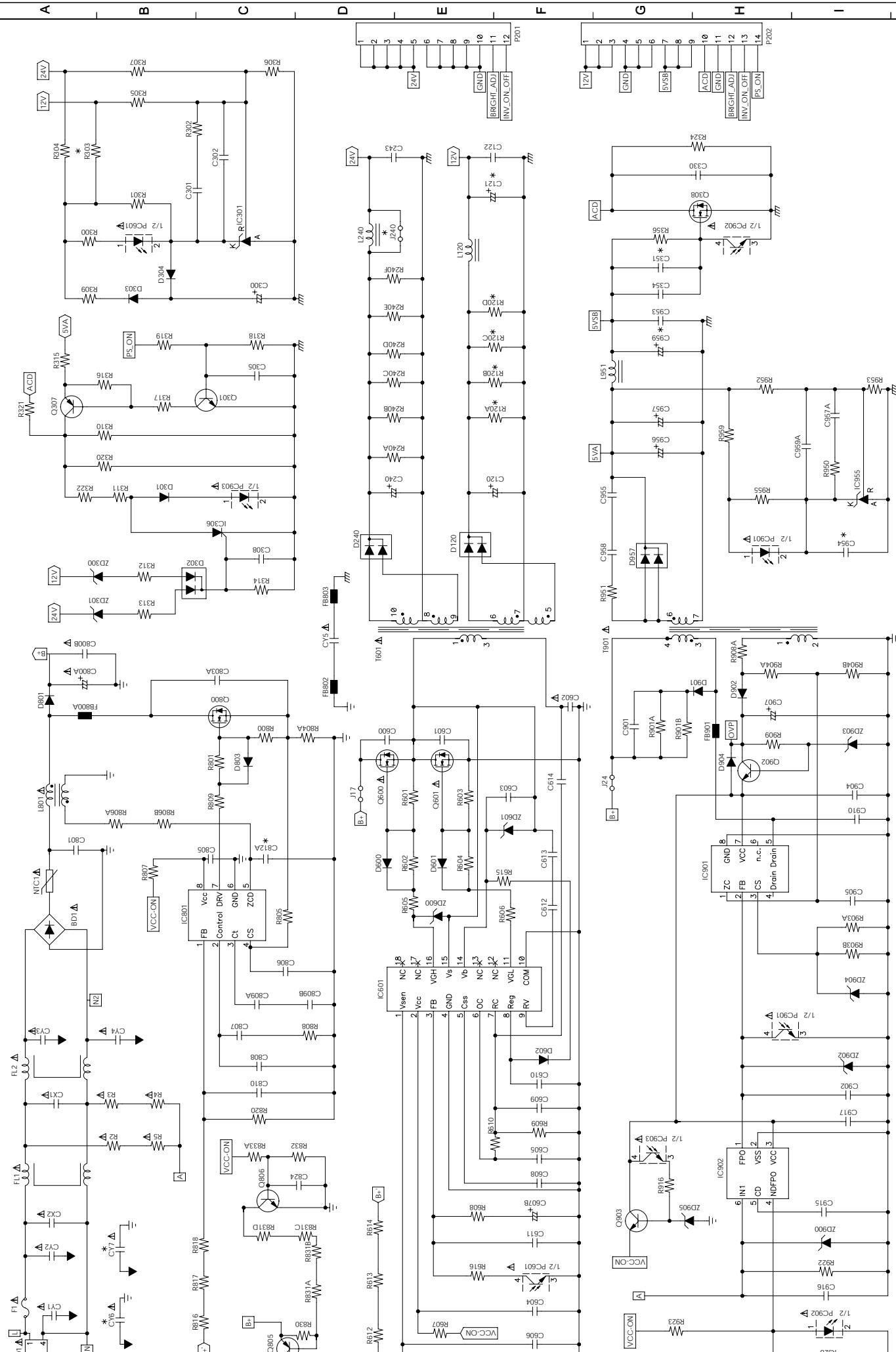




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Date: 12/20/11'	LY.REV: 2X	Drawn: SIMON	Checked	Approved	Model Name	Rev.	Sheet
PWB: D140SPR2C0	FILE NAME: D140SPR2X	D140SPR2X	DENNIS.CHENG	KY.TSENG	DPS-140SPA	10 OF 10	10



**DESCRIPTION: SCHEMATIC OF
SWITCHING POWER SUPPLY**

KY.TSENG
12/16/11'DENNIS.C.CHENG
12/16/11'**DELTA ELECTRONICS, INC.**

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10 OF 10

DPS-245FPA

REV. J

12/16/11'

SHEET 10

Date: 11/26/11'	LY REV: 2X	Drawn: CORTON	Approved:	Model Name:
PWB: D245FPR2C0	FILE NAME: D245FPR2X	DESCRIPTION: SCHEMATIC OF SWITCHING POWER SUPPLY	KY.TSENG 12/16/11'	DENNIS.C.CHENG 12/16/11'

