

SERVICE MANUAL

LCD Color Television

32AV833G Ver. 1.01

Updating history

Amendment by DS Company

Updating History,

2011-06-13 Amendment done by DS Company

Correction of the contents

Correction for Destination Setting Change

IMPORTANT NOTICE

WARNING:

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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.

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.

SAFETY INSTRUCTION

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

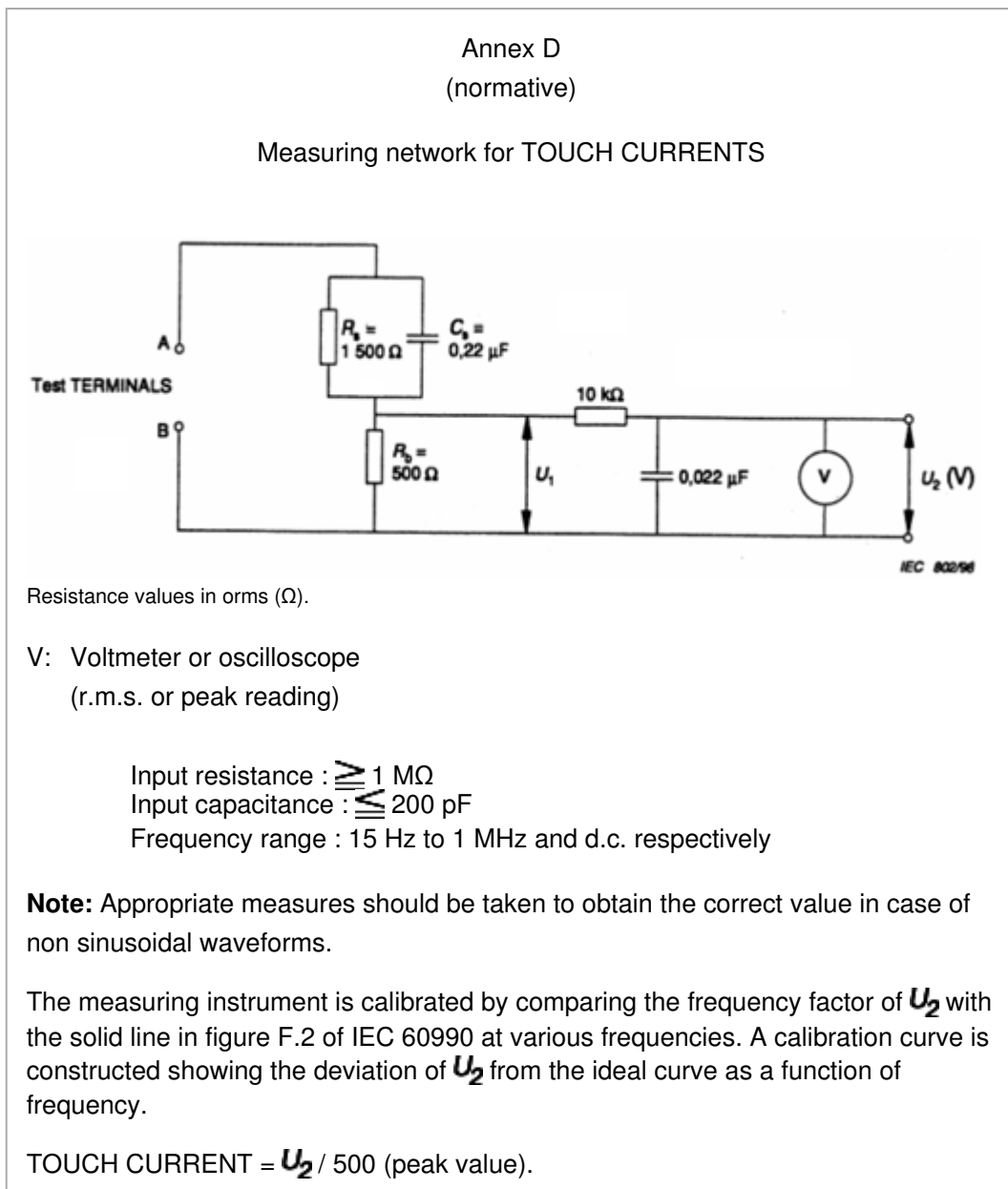
Safety Precaution

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.



- 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:

- 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.

SAFETY INSTRUCTION

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.

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.

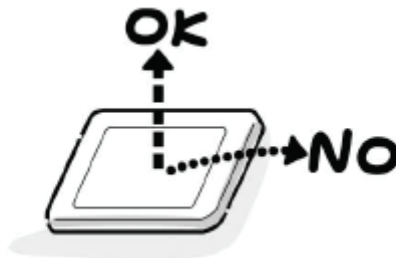
Also, never touch this fluid. Such actions could cause toxicity or skin irritation. If this fluid should enter the mouth, rinse the mouth thoroughly with water. If the fluid should contact the skin or clothing, wipe off with alcohol, etc., and rinse thoroughly with water. If the fluid should enter the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

the screen, 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.



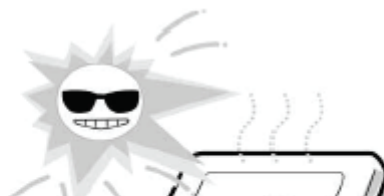
5. Glass is used in the panel, so do not drop or strike with hard objects. Such actions can damage the panel.



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.

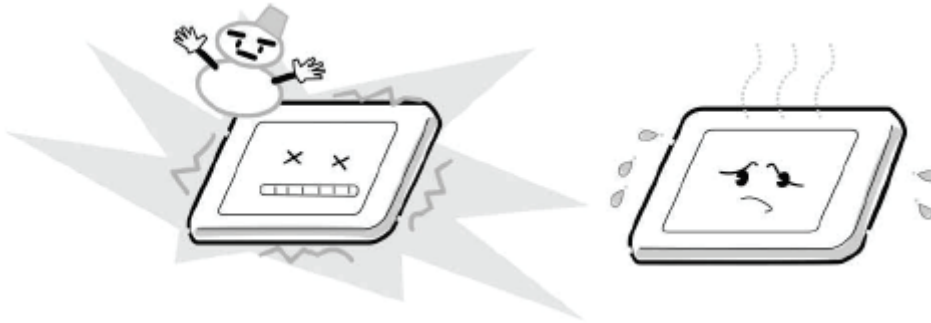


7. Do not expose the LCD module to direct sunlight or strong ultraviolet rays for an extended period of time.





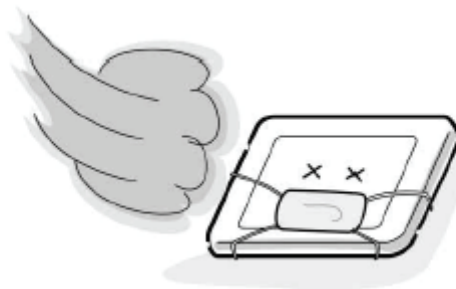
8. Do not store the LCD module below the temperature conditions described in the specifications. Failure to do so could result in freezing of the liquid crystal due to cold air or loss of resilience or other damage.

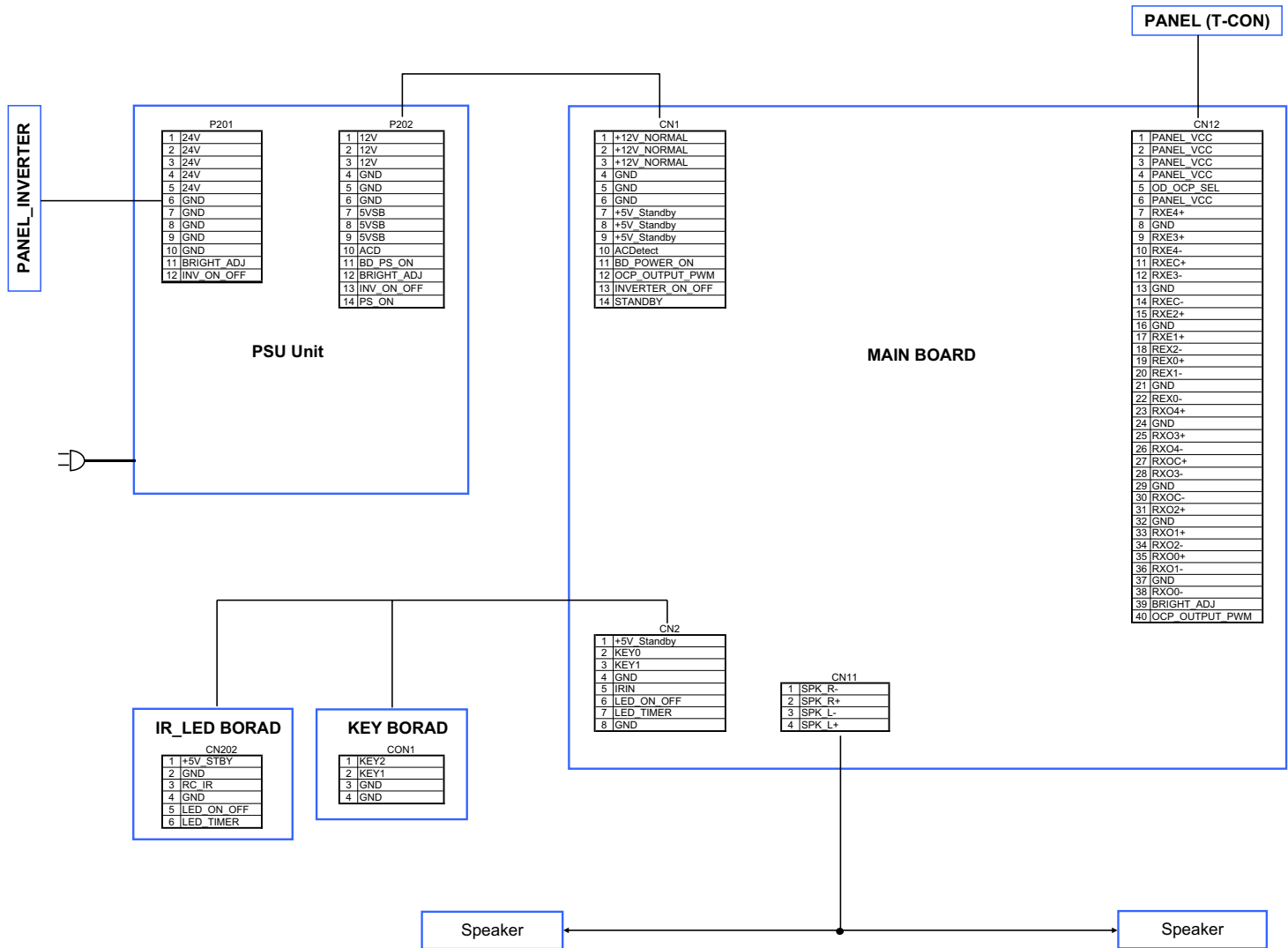


9. Do not disassemble the LCD module. Such actions could result in improper operation.



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.





TROUBLESHOOTING GUIDE

UNDER CONSTRUCTION

Note: Please check back in the future.

TOSHIBA WEB-ZEUS

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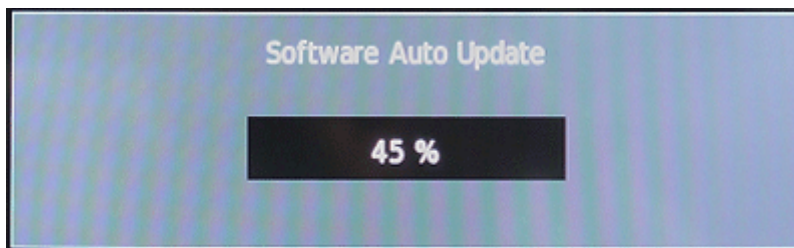
FIRMWARE UPDATING PROCEDURE

Firmware Upgrade - USB

1. Copy a firmware BIN file to USB disk. (Root directory)
2. Plug USB disk into TV USB port.



3. Reboot (AC Off/On) TV to upgrade firmware automatically. During firmware upgrade, OSD will be displayed on LCD screen, and power status LED will be blinking.



4. When firmware upgrade is finished, a message will be displayed on screen.



5. Unplug USB disk, and turn AC Off/On to reboot TV.

Note:

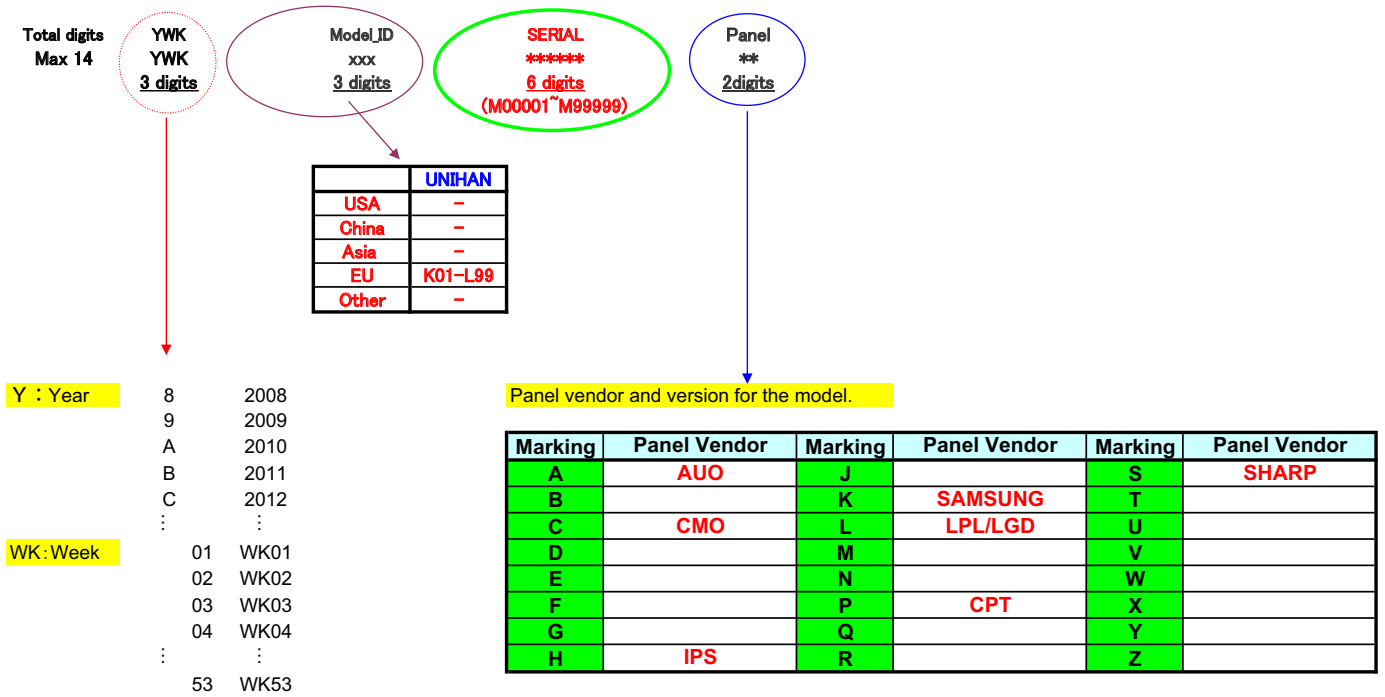
This upgrade method is available only when boot code exists in flash memory (Main Board).

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Global Serial No.



Model Information

Model	Model ID	Panel ID	Panel
32AV833G	K56	L1	LC320WXN-SCC1
32AV833F	K57	L1	LC320WXN-SCC1
32AV833N	K58	L1	LC320WXN-SCC1
32AV833R	K59	L1	LC320WXN-SCC1
32AV833RB	K72	L1	LC320WXN-SCC1

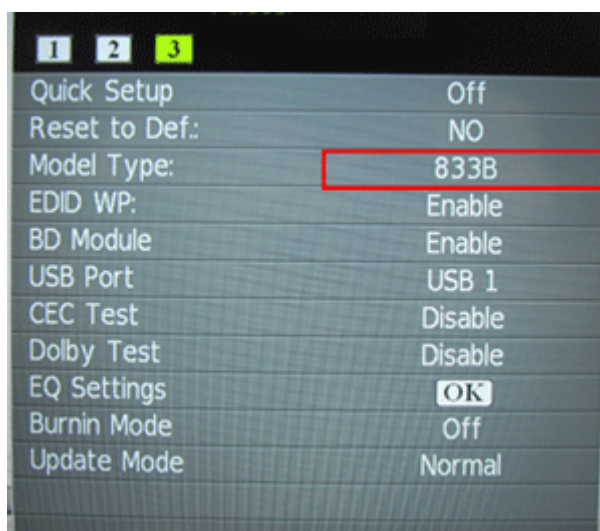
DESTINATION SETTING CHANGE

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

1. Press "Mute" key twice on the Remote.
2. Press "Menu" button on the TV set. Then the OSD is displayed.



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



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.



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 $\pm 5\%$, 50 V and all resistor, $\pm 5\%$, 1/6 W unless otherwise noted.

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PARTS LIST

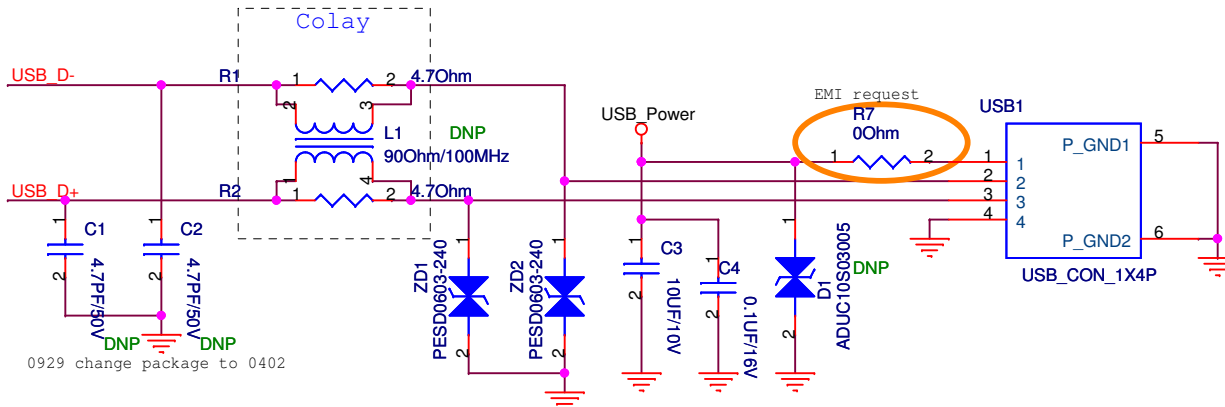
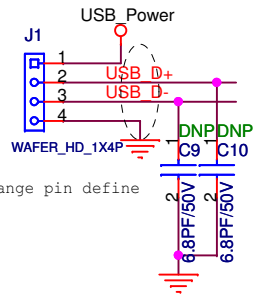
Updating history

Amendment by DS Company

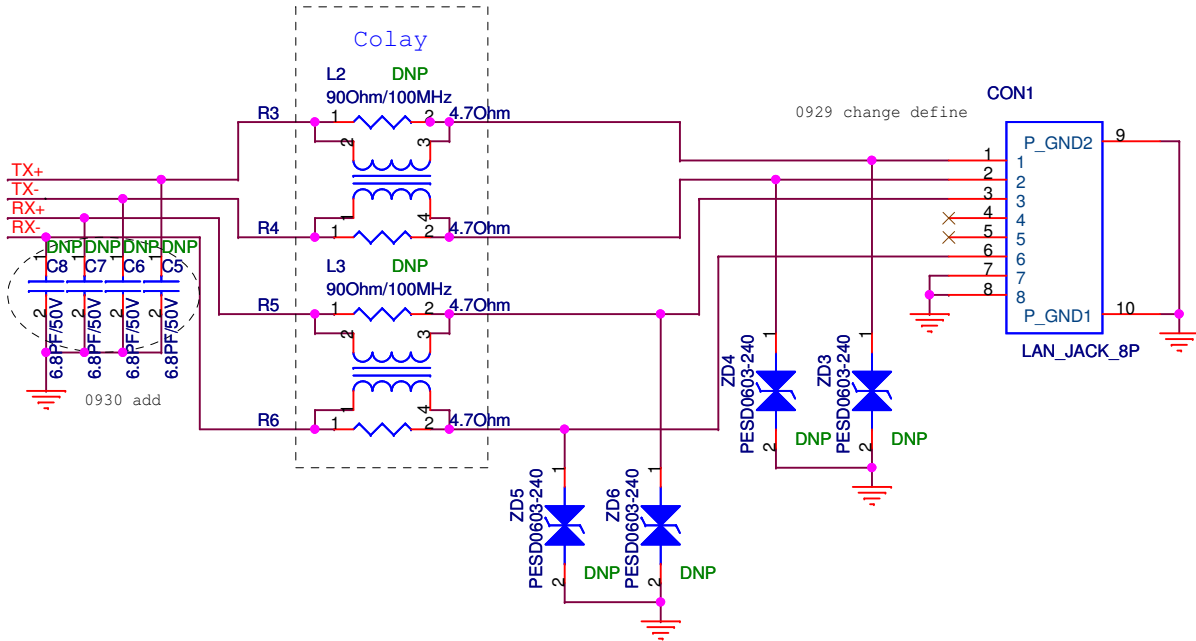
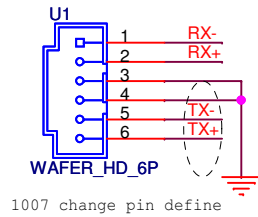
Updating History,

2011-06-13 Amendment done by DS Company

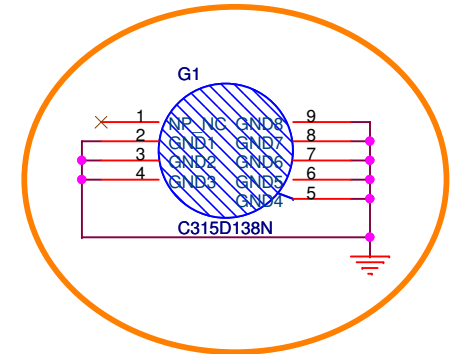
	Location	Parts No.	Description
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	E250	75025188	POWER OPENFRAME, 130W/+5 12 24V, 0433-005C000
	E260	75025210	PC BOARD ASSY, KEY, 90-EB40S01D0
	E270	75025211	PC BOARD ASSY, IR, 90-EB40S01A0
	E300	75019248	LCD PANEL, LC320WXN-SCC1
	E310	75025190	LVDS CABLE, 51P TO 40P L:320MM, 1414-05AM000
	E320	75025213	POWER CORD, EU/2P BLACK L:1.8M, 1411-00WA000, F/G/N/R/RB
	E330	75025192	SPEAKER, 10W 8 OHM L+R, 04A4-00SK000
	E340	75025194	CABLE, SPEAKER, 2P TO 2P L:370MM, 1419-001S000
	E342	75025195	CABLE, INVERTER, 14P TO 12P, 1410-0086000
	E344	75025196	CABLE, POWER, HSG 14P TO 14P, 1414-05C4000
	E346	75025197	CABLE, POWER, 2P INLET-HSG 4P, 1414-05CT000
	E347	75025199	CABLE, POWER, 2P INLET-HSG 4P, 1414-05JU000
	E348	75025200	CABLE, Y, 8P TO HSG 3+5P, 1414-05C6000
	E410	75025217	MANUAL, 1506-0FS5000, G
	E450	75025218	LABEL, RATING, 1510-0RN3000, G
	E460	75025214	LABEL, CARTON, 1510-0Q8D000, B/F/G/N
	E400	75014827	REMOCON HAND UNIT, CT-90326
	E100	75025180	FRONT BEZEL ASSY, 32AV833, 13EB-2YB0201
	E110	75025182	BACK COVER ASSY, 32AV833, 13EB-2YB0301
	E120	75025207	STAND ASSY, 32AV833, 9C-EB40S00E0
	E125	75025184	SCREW, FOR STAND ASSY, 13EB-2YB0401
	E140	75025185	PLATE, SIDE IO, 32AV833, 13EB-2YB0101
	E150	75025208	BRACKET ASSY, STAND, 32AV833, 9C-EB40S00F0
	E155	75025209	SCREW, BRACKET ASSY, 9C-EB40S00D0
	E500	75025212	CARTON BOX, 32AV833, 1503-033Y000
	E510	75025201	EPS CUSHION, TOP RIGHT, 32AV833, 1505-01WA000
	E511	75025202	EPS CUSHION, TOP LEFT, 32AV833, 1505-01W9000
	E512	75025203	EPS CUSHION, BOTTOM RIGHT, 32AV833, 1505-01W8000
	E513	75025204	EPS CUSHION, BOTTOM LEFT, 32AV833, 1505-01W7000
	E520	75025205	EPE BAG, 1516-015P000
	E530	75025206	PE BAG, STAND, 1516-01AK000

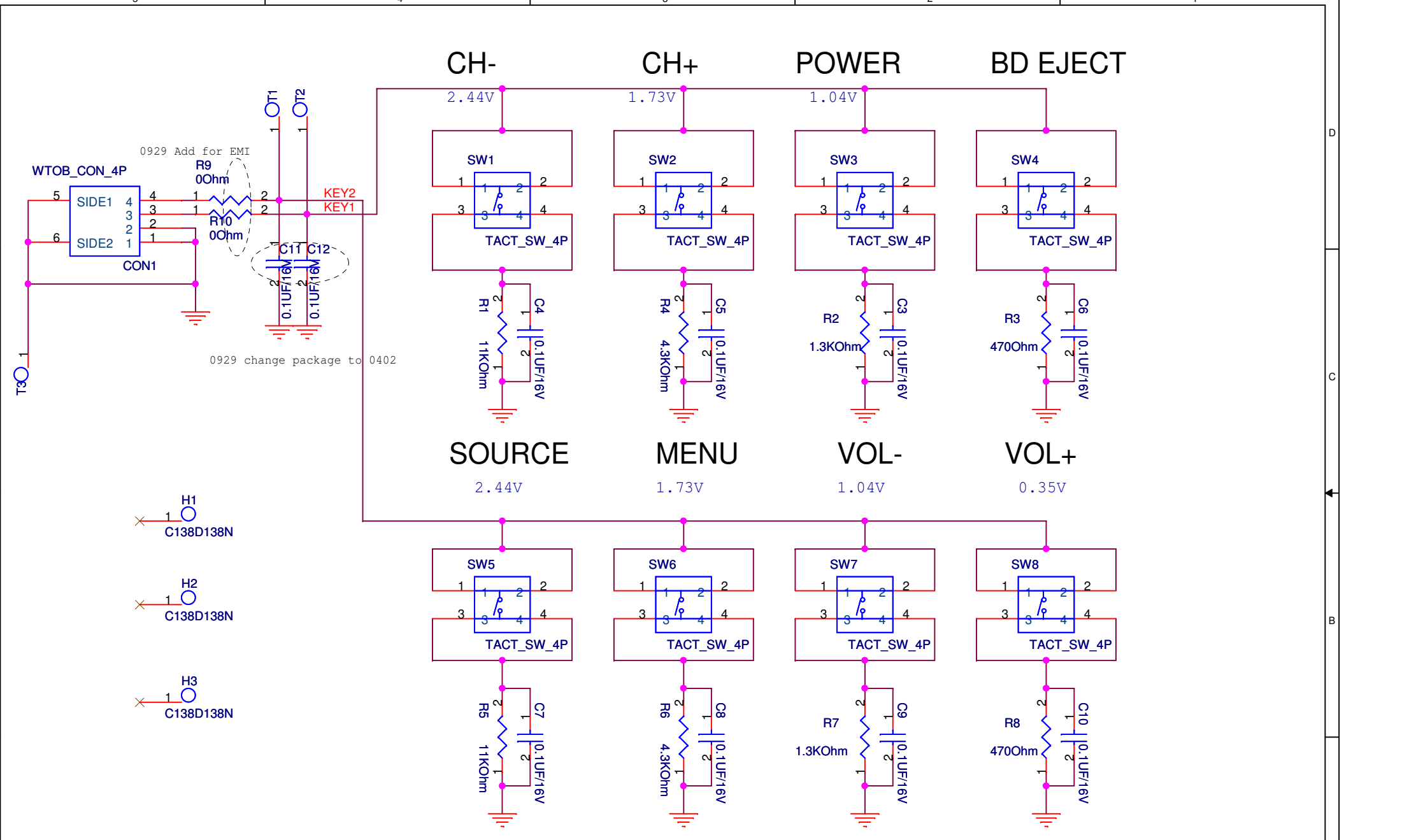


Close to connector

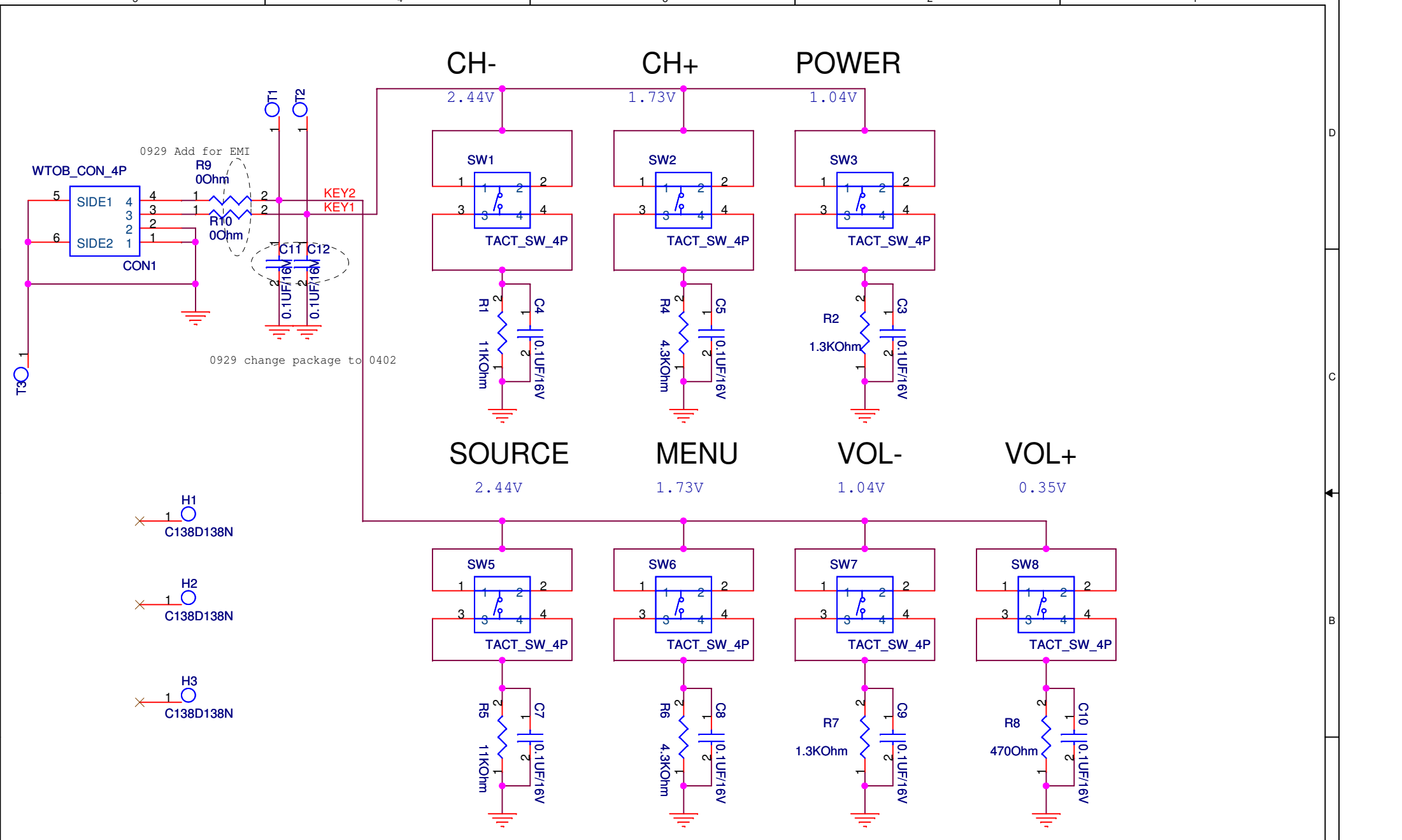


1130 add screw symbol.

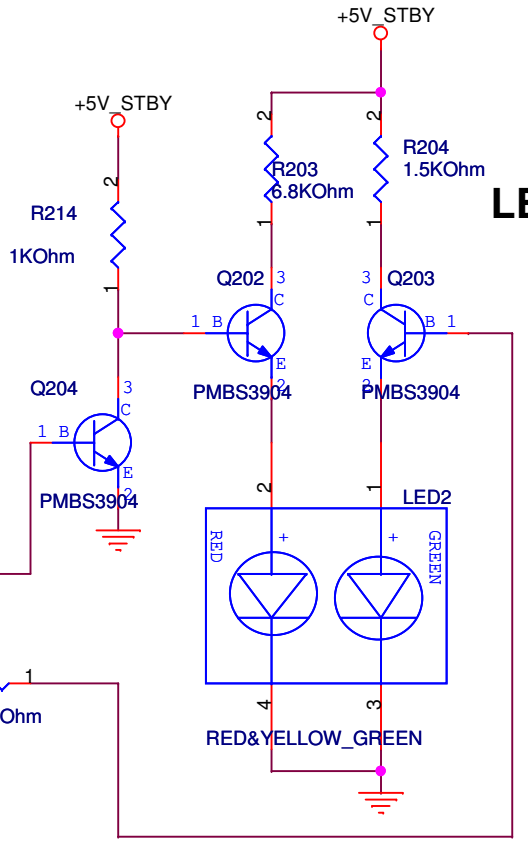
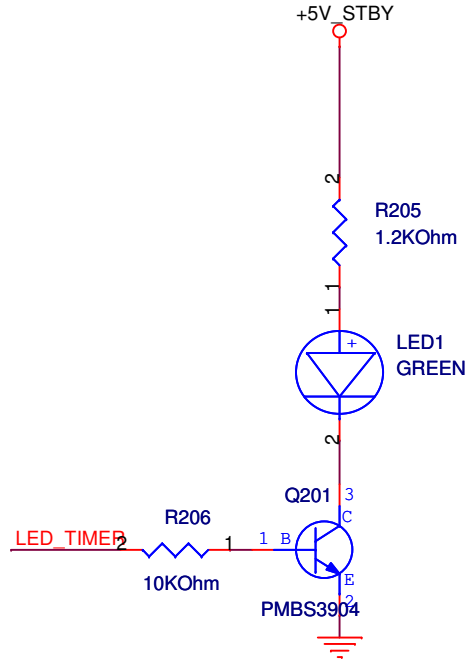
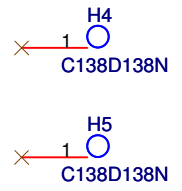
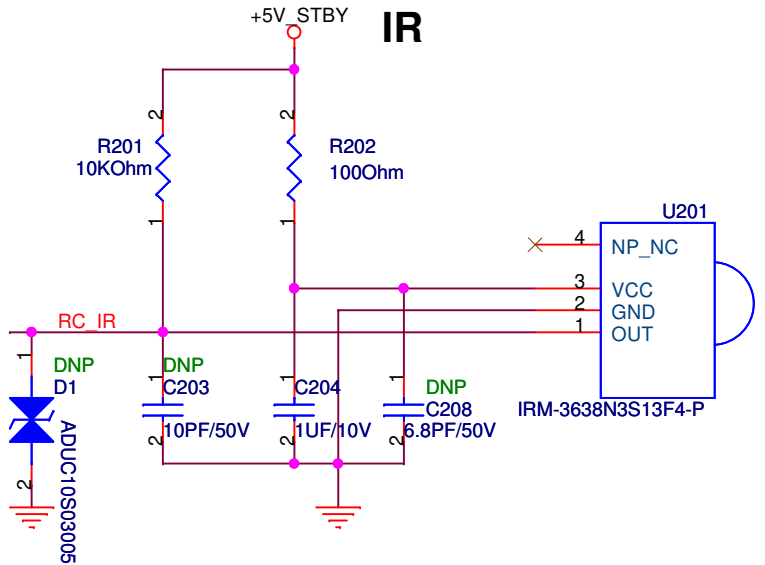
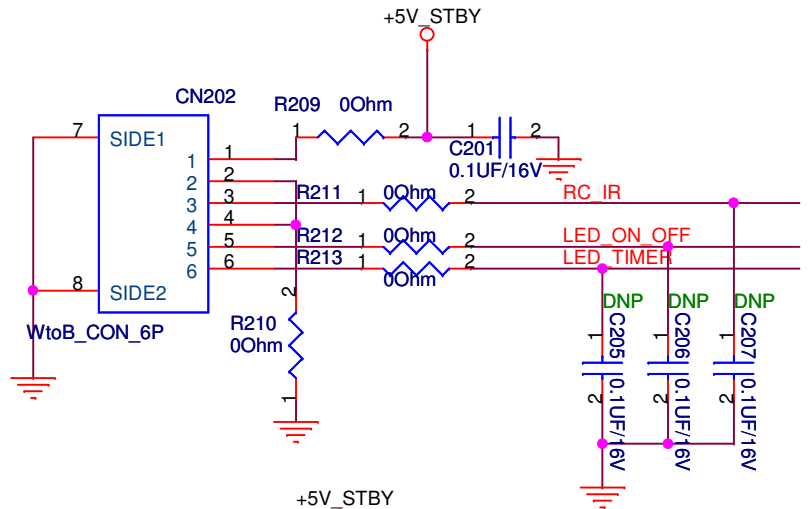




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<OrgName>		Engineer: <i>Robert Chung</i>	
Size A	Project Name 32AV803_Keypad	Rev V1.00	
Date: <i>Tuesday, October 05, 2010</i>		Sheet <i>1</i> of <i>1</i>	



Unihan		Title : <i>KEYPAD</i>	
<OrgName>		Engineer: <i>Robert Chung</i>	
Size A	Project Name 32AV803_Keypad	Rev V1.00	
Date: <i>Tuesday, October 05, 2010</i>		Sheet 1 of 1	



LED

	LED 2	LED 1
Function	Red	Green
Control method	Standby	Power on
		Timer

Unihan Title : **IR & LED**
 Engineer: **Robert Chung**

Size A	Project Name 32AV833-IR/LED	Rev V1.01
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Date: **Monday, October 18, 2010** Sheet **1** of **1**

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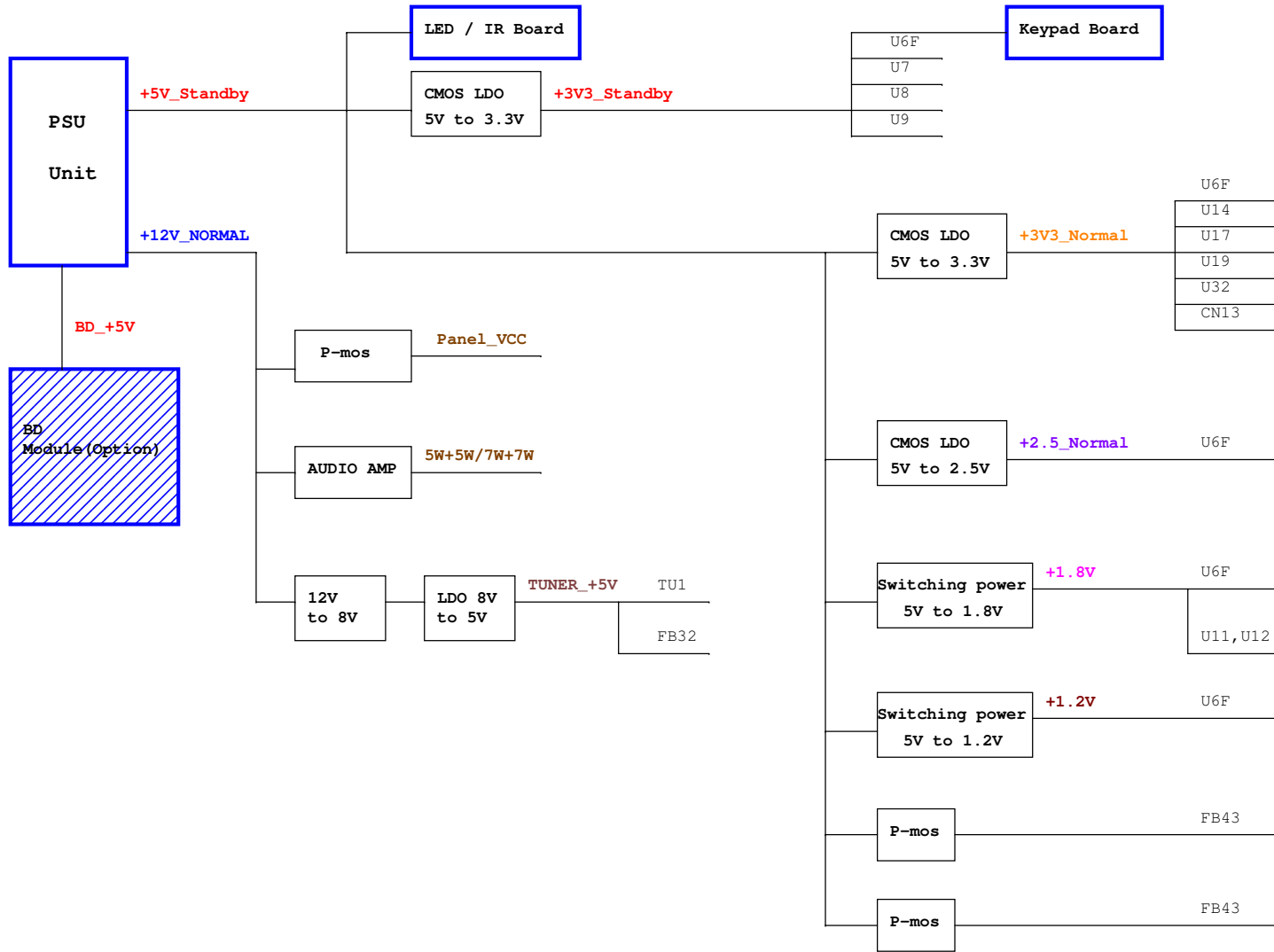
SCHEMATIC Name	SHEET
01.Contents	1
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07.MSD701PX-POWER	7
08.MSD701PX-PCMCIA&TFE	8
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14.AUDIO AMP&HEADPHONE	14
15.Tuner	15
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REVISION HISTORY

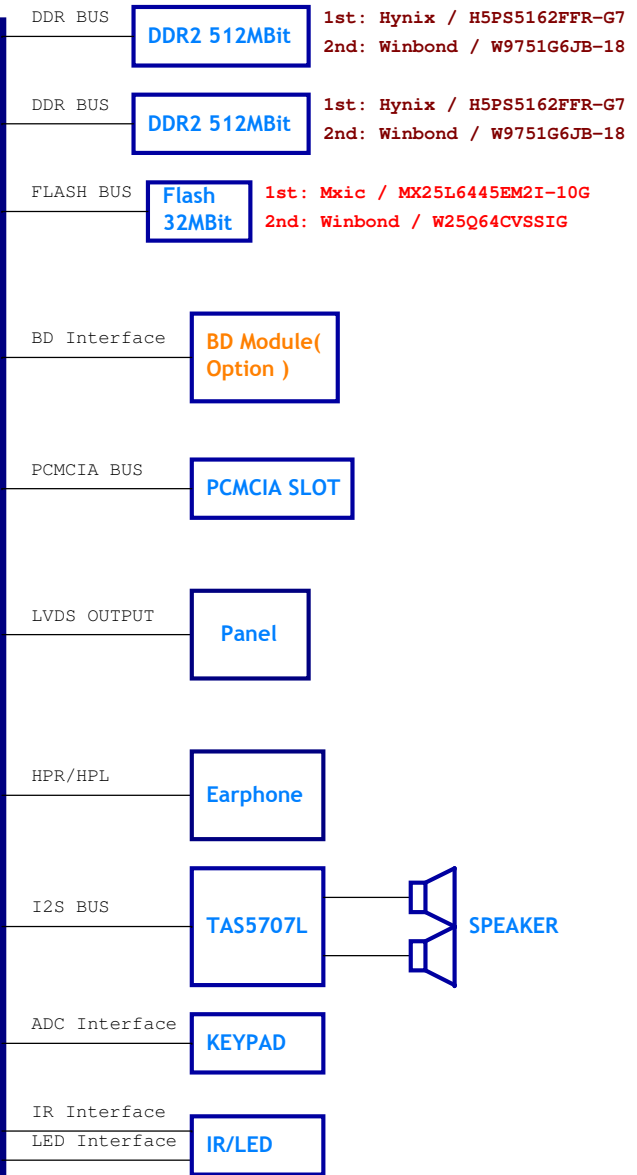
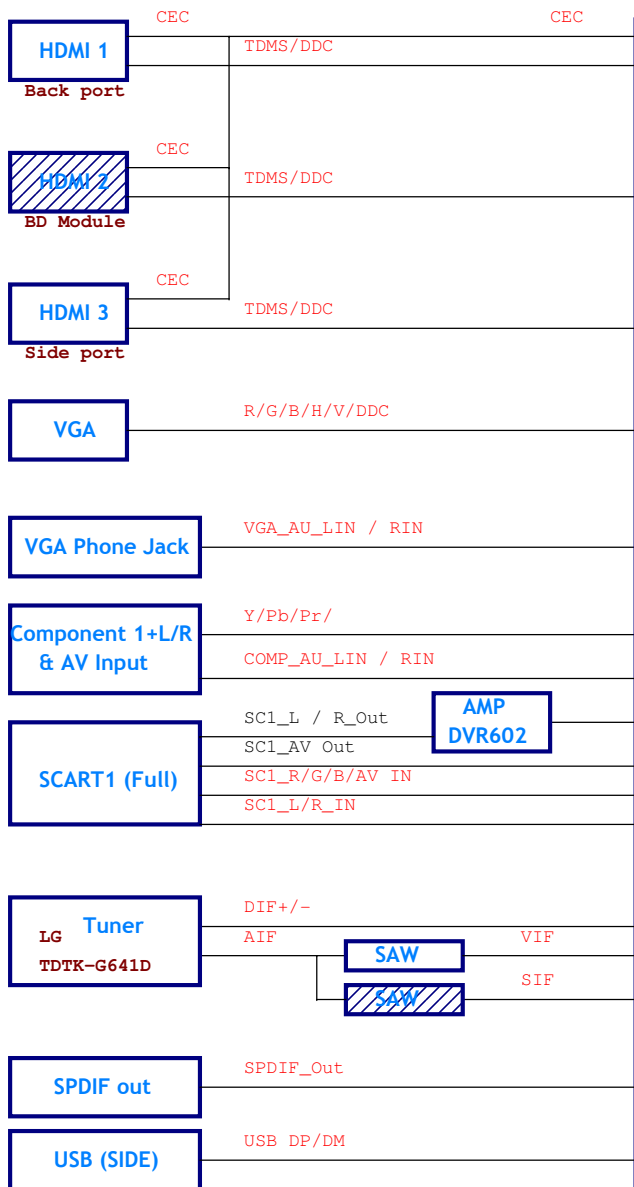
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2010/12/03	Cm/Jeff	1.02	For PR stage , all change list reference to ---->"xxav833x_Sch_change_list.xls"

Unihan		Title : Contents&History	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size B	Project Name xxA(L)V833/xxE(H)L833/xxDB833	Rev 1.02	
Date: Wednesday, January 19, 2011		Sheet 1 of 18	

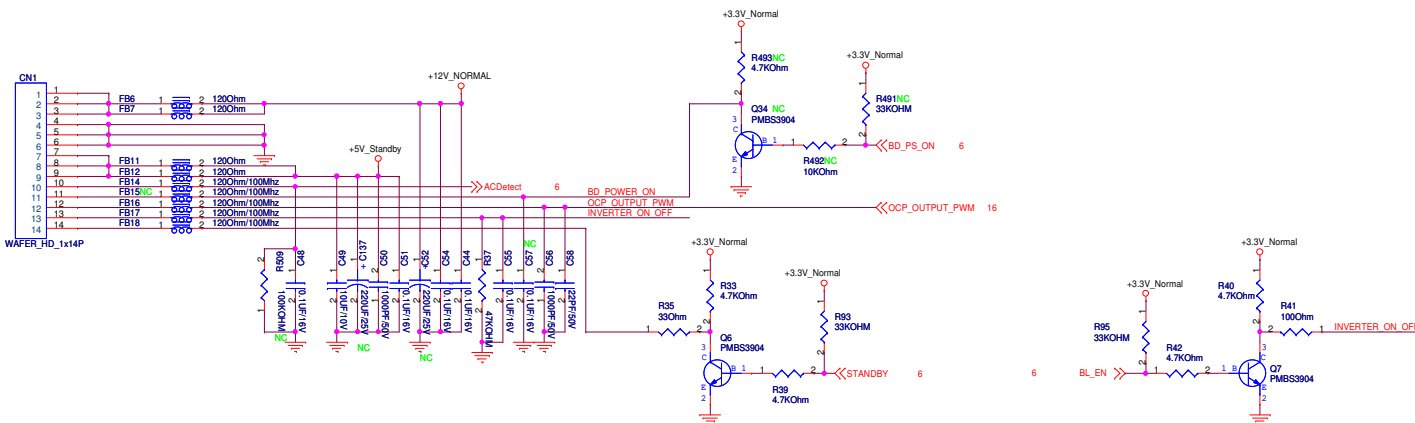
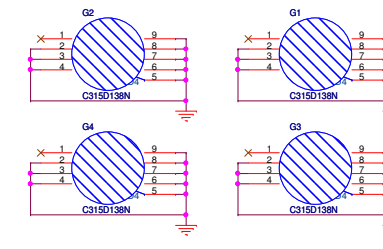
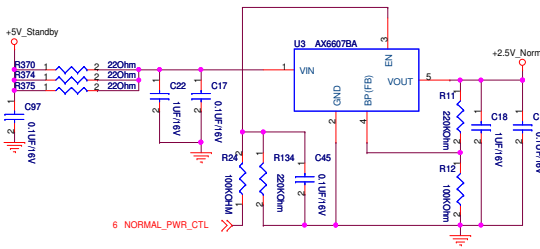
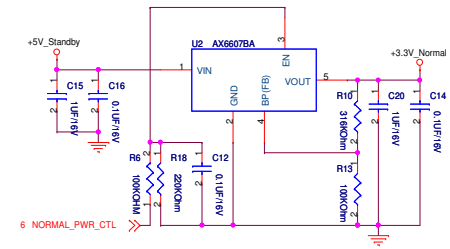
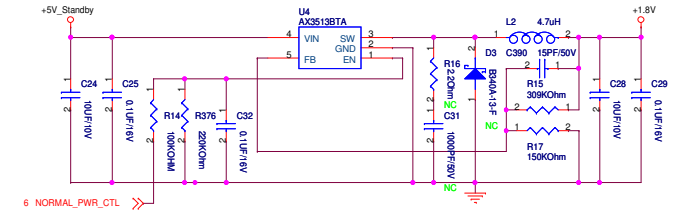
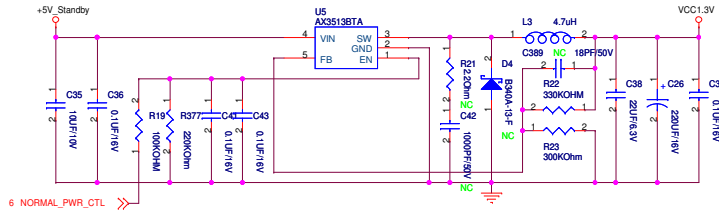
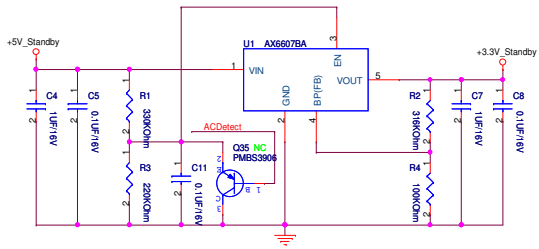
Power Block Diagram

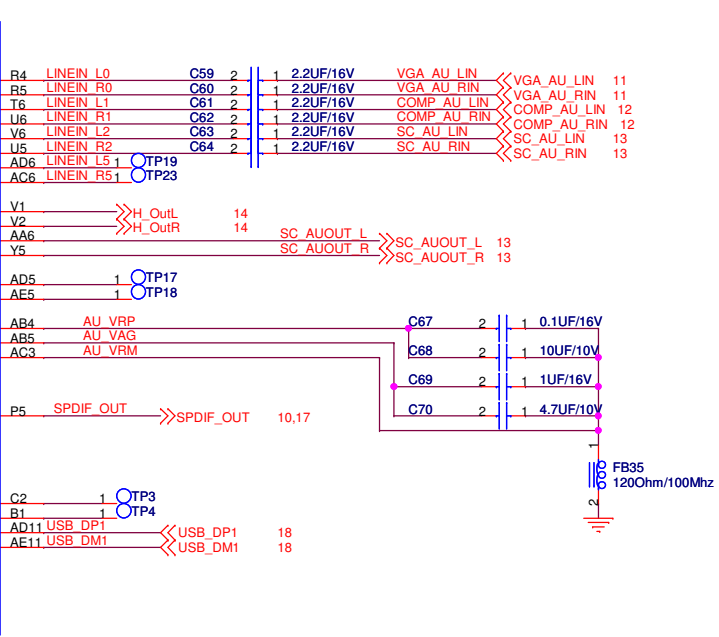
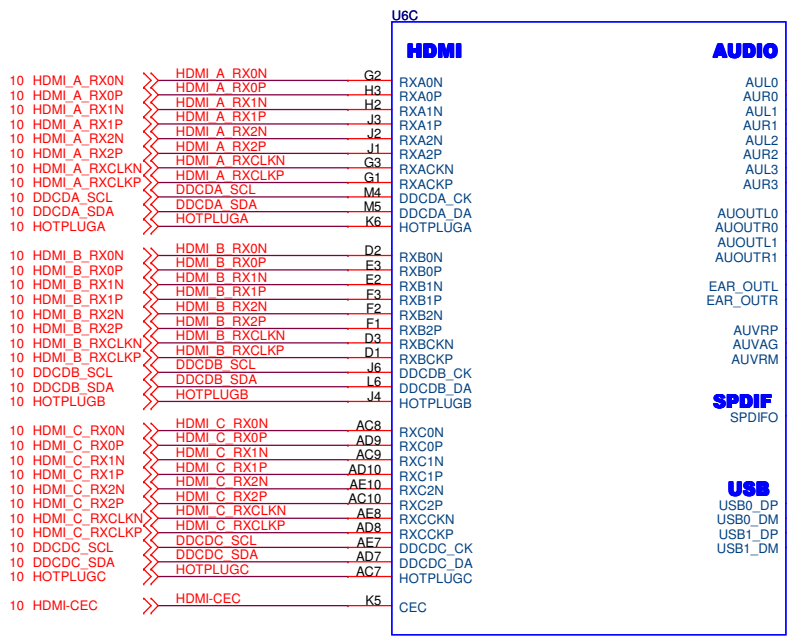


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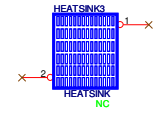
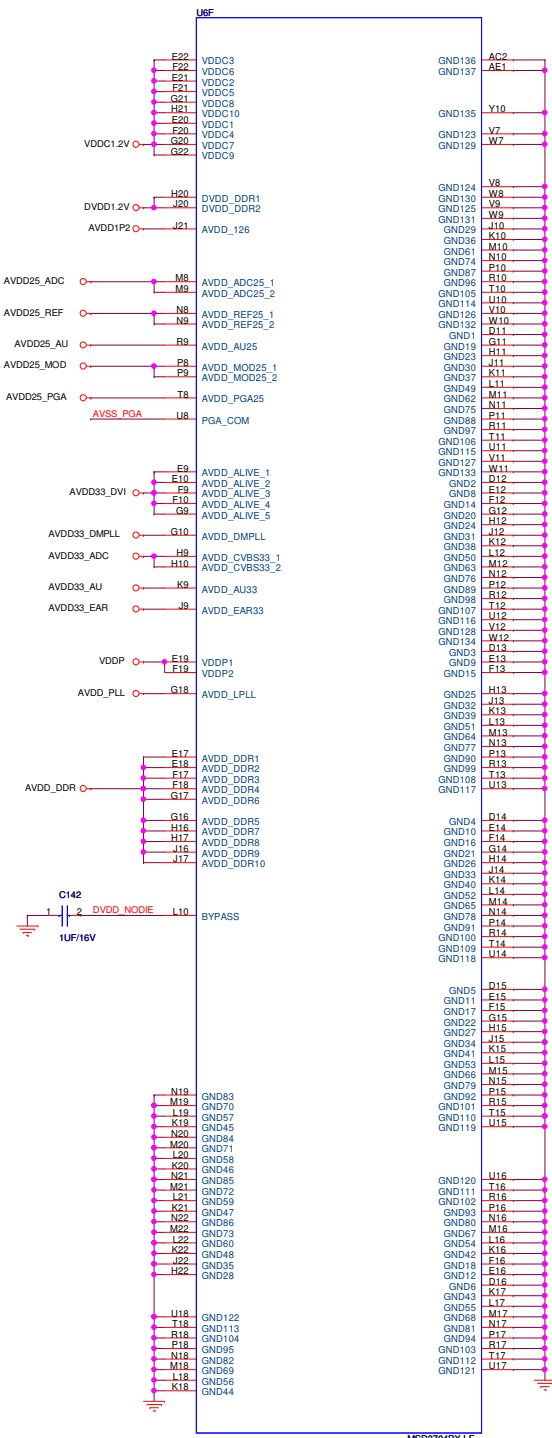
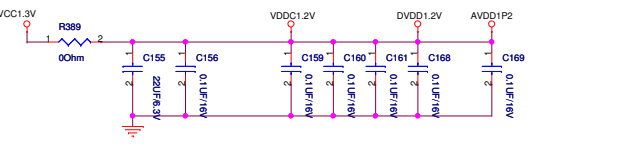
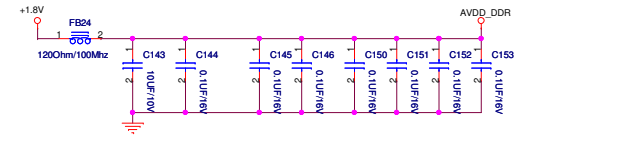
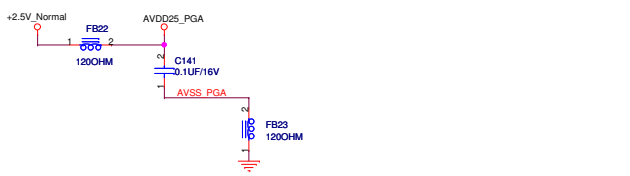
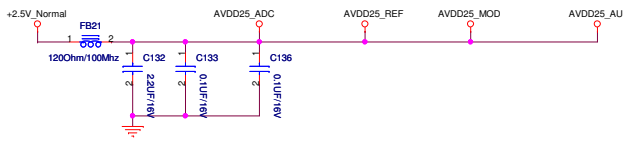
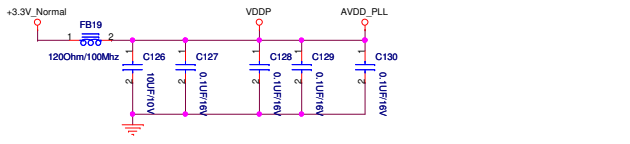
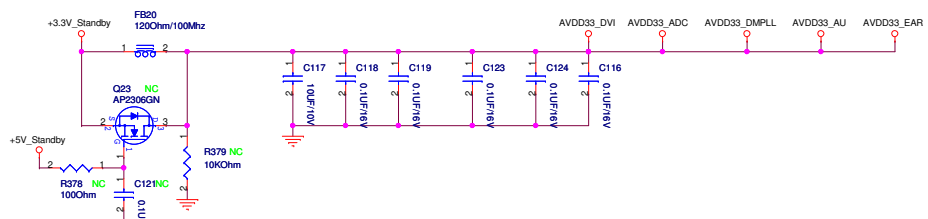


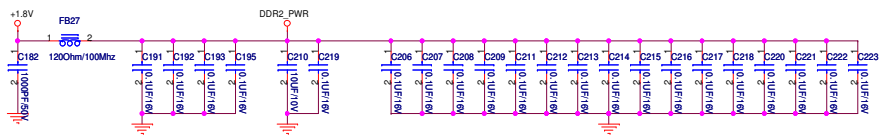
Unihan		Title : Block Diagram	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size B	Project Name xxA(L)V833/xxE(H)L833/xxDB833	Rev 1.02	
Date: Wednesday, January 19, 2011		Sheet	3 of 18





Unihan		Title : MSD3704PX	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size	Project Name	Rev	
B	xxA(L)V833/xxE(H)L833/xxDB833	1.02	
Date: Wednesday, January 19, 2011	Sheet	5	of 18





MIUA_A13 NC R218 2 1 560hm MA A13

6 MIUA_DQM1 >> MIUA_DQM1 R219 1 2 560hm MA DQM1
 6 MIUA_DQM0 >> MIUA_DQM0 R220 1 2 560hm MA DQM0
 6 MIUA_DQS0 >> MIUA_DQS0 R221 1 2 560hm MA DQS0
 6 MIUA_DQS0B >> MIUA_DQS0B R222 1 2 560hm MA DQS0B
 6 MIUA_DQS1 >> MIUA_DQS1 R223 1 2 560hm MA DQS1
 6 MIUA_DQS1B >> MIUA_DQS1B R224 1 2 560hm MA DQS1B

6 MIUA_DQ[0:15] >> MIUA_DQ[0:15]

MIUA_DQ11 RN13D 7 8 560HM MA DQ11
 MIUA_DQ12 RN13C 5 6 560HM MA DQ12
 MIUA_DQ9 RN13B 3 4 560HM MA DQ9
 MIUA_DQ14 RN13A 1 2 560HM MA DQ14
 MIUA_DQ6 RN15D 8 7 560HM MA DQ6
 MIUA_DQ1 RN15C 6 5 560HM MA DQ1
 MIUA_DQ3 RN15B 4 3 560HM MA DQ3
 MIUA_DQ4 RN15A 2 1 560HM MA DQ4
 MIUA_DQ15 RN14D 7 8 560HM MA DQ15
 MIUA_DQ8 RN14C 5 6 560HM MA DQ8
 MIUA_DQ10 RN14B 3 4 560HM MA DQ10
 MIUA_DQ13 RN14A 1 2 560HM MA DQ13
 MIUA_DQ7 RN12D 7 8 560HM MA DQ7
 MIUA_DQ0 RN12C 5 6 560HM MA DQ0
 MIUA_DQ2 RN12B 3 4 560HM MA DQ2
 MIUA_DQ5 RN12A 1 2 560HM MA DQ5

6 MIUA_A[0:13] >> MIUA_A[0:13]

MIUA_A4 RN7D 7 8 560HM MA A4
 MIUA_A6 RN7C 5 6 560HM MA A6
 MIUA_A8 RN7B 3 4 560HM MA A8
 MIUA_A11 RN7A 1 2 560HM MA A11
 MIUA_A5 RN8D 7 8 560HM MA A5
 MIUA_A10 RN8C 5 6 560HM MA A10
 MIUA_A1 RN8B 3 4 560HM MA A1
 MIUA_BA2 RN8A 1 2 560HM MA BA2
 MIUA_A12 RN10D 7 8 560HM MA A12
 MIUA_A7 RN10C 5 6 560HM MA A7
 MIUA_A9 RN10B 3 4 560HM MA A9
 MIUA_A3 RN10A 1 2 560HM MA A3
 MIUA_A2 RN11A 1 2 560HM MA A2
 MIUA_A0 RN11B 3 4 560HM MA A0
 MIUA_CASZ RN11C 5 6 560HM MA CASZ
 MIUA_RASZ RN11D 7 8 560HM MA RASZ
 MIUA_MCLK R229 2 2 560hm MA MCLK
 MIUA_MCLKZ R230 2 2 560hm MA MCLKZ
 MIUA_ODT R231 2 2 560hm MA ODT
 MIUA_WEZ RN8A 1 2 560HM MA WEZ
 MIUA_MCKE RN8B 4 3 560HM MA MCKE
 MIUA_BA1 RN8C 5 6 560HM MA BA1
 MIUA_BA0 RN8D 7 8 560HM MA BA0

6 MIUA_BA2 >> MIUA_BA2

6 MIUA_CASZ >> MIUA_CASZ

6 MIUA_MCLK >> MIUA_MCLK

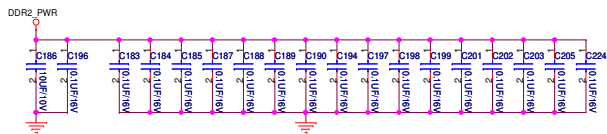
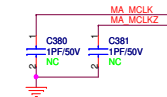
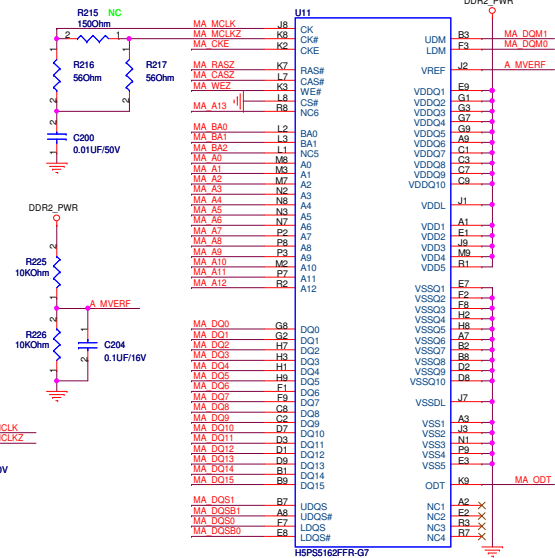
6 MIUA_ODT >> MIUA_ODT

6 MIUA_WEZ >> MIUA_WEZ

6 MIUA_MCKE >> MIUA_MCKE

6 MIUA_BA1 >> MIUA_BA1

6 MIUA_BA0 >> MIUA_BA0



MIUB_A13 NC R235 2 1 560hm MB A13

6 MIUB_DQM1 >> MIUB_DQM1 R236 1 2 560hm MB DQM1
 6 MIUB_DQM0 >> MIUB_DQM0 R237 1 2 560hm MB DQM0
 6 MIUB_DQS0 >> MIUB_DQS0 R238 1 2 560hm MB DQS0
 6 MIUB_DQS0B >> MIUB_DQS0B R239 1 2 560hm MB DQS0B
 6 MIUB_DQS1 >> MIUB_DQS1 R240 1 2 560hm MB DQS1
 6 MIUB_DQS1B >> MIUB_DQS1B R241 1 2 560hm MB DQS1B

6 MIUB_DQ[0:15] >> MIUB_DQ[0:15]

MIUB_DQ11 RN23D 7 8 560HM MB DQ11
 MIUB_DQ12 RN23C 5 6 560HM MB DQ12
 MIUB_DQ9 RN23B 3 4 560HM MB DQ9
 MIUB_DQ14 RN23A 1 2 560HM MB DQ14
 MIUB_DQ8 RN19D 8 7 560HM MB DQ8
 MIUB_DQ1 RN19C 6 5 560HM MB DQ1
 MIUB_DQ3 RN19B 4 3 560HM MB DQ3
 MIUB_DQ4 RN19A 2 1 560HM MB DQ4
 MIUB_DQ15 RN23D 7 8 560HM MB DQ15
 MIUB_DQ8 RN23C 5 6 560HM MB DQ8
 MIUB_DQ10 RN23B 3 4 560HM MB DQ10
 MIUB_DQ13 RN23A 1 2 560HM MB DQ13
 MIUB_DQ7 RN24D 7 8 560HM MB DQ7
 MIUB_DQ0 RN24C 5 6 560HM MB DQ0
 MIUB_DQ2 RN24B 3 4 560HM MB DQ2
 MIUB_DQ5 RN24A 1 2 560HM MB DQ5

6 MIUB_A[0:13] >> MIUB_A[0:13]

MIUB_A4 RN18D 7 8 560HM MB A4
 MIUB_A6 RN18C 5 6 560HM MB A6
 MIUB_A8 RN18B 3 4 560HM MB A8
 MIUB_A11 RN18A 1 2 560HM MB A11
 MIUB_A5 RN17D 7 8 560HM MB A5
 MIUB_A10 RN17C 5 6 560HM MB A10
 MIUB_A1 RN17B 3 4 560HM MB A1
 MIUB_BA2 RN17A 1 2 560HM MB BA2
 MIUB_A12 RN18D 7 8 560HM MB A12
 MIUB_A7 RN18C 5 6 560HM MB A7
 MIUB_A9 RN18B 3 4 560HM MB A9
 MIUB_A3 RN18A 1 2 560HM MB A3
 MIUB_A2 RN20A 1 2 560HM MB A2
 MIUB_A0 RN20B 3 4 560HM MB A0
 MIUB_CASZ RN20C 5 6 560HM MB CASZ
 MIUB_RASZ RN20D 7 8 560HM MB RASZ
 MIUB_MCLK R244 2 2 560hm MB MCLK
 MIUB_MCLKZ R247 2 2 560hm MB MCLKZ
 MIUB_ODT R248 2 2 560hm MB ODT
 MIUB_WEZ RN21A 1 2 560HM MB WEZ
 MIUB_MCKE RN21B 3 4 560HM MB MCKE
 MIUB_BA1 RN21C 5 6 560HM MB BA1
 MIUB_BA0 RN21D 7 8 560HM MB BA0

6 MIUB_BA2 >> MIUB_BA2

6 MIUB_CASZ >> MIUB_CASZ

6 MIUB_MCLK >> MIUB_MCLK

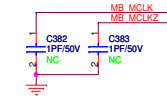
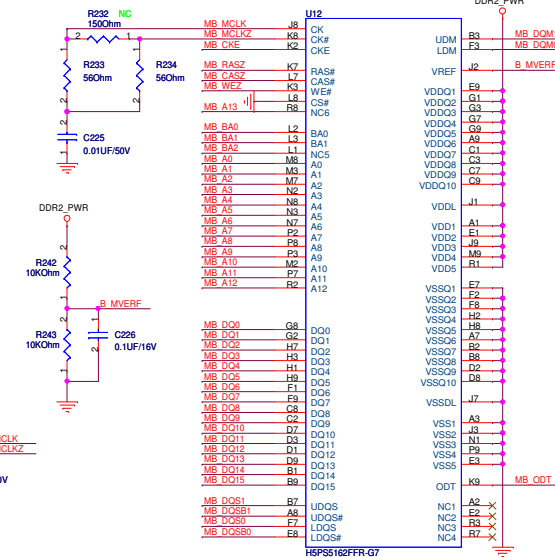
6 MIUB_ODT >> MIUB_ODT

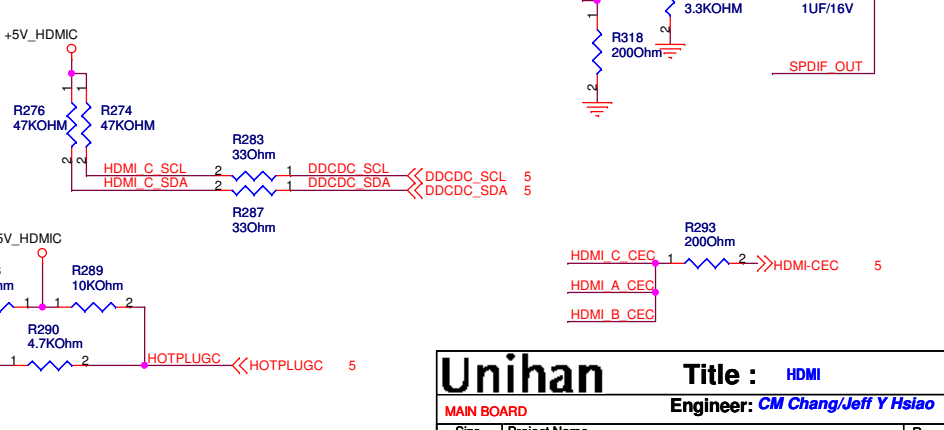
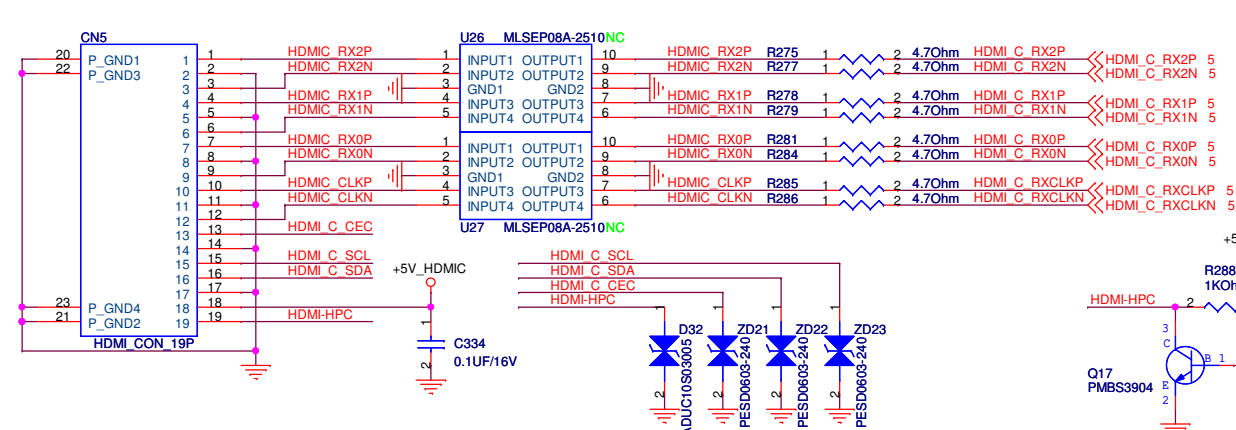
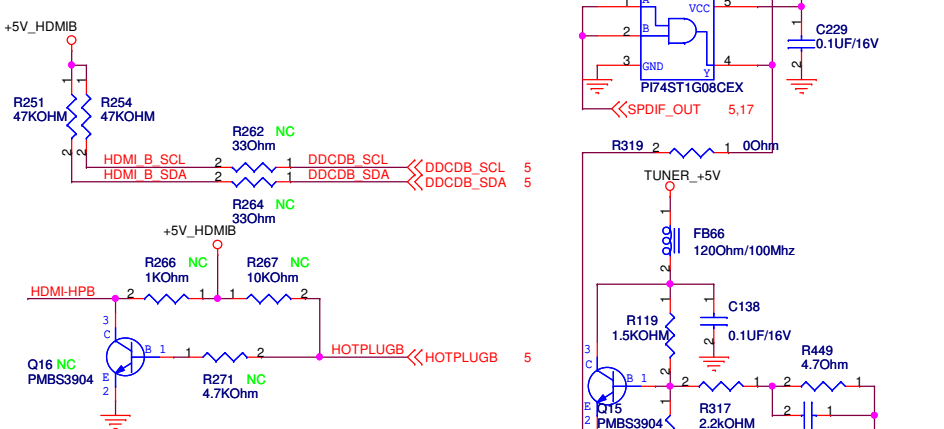
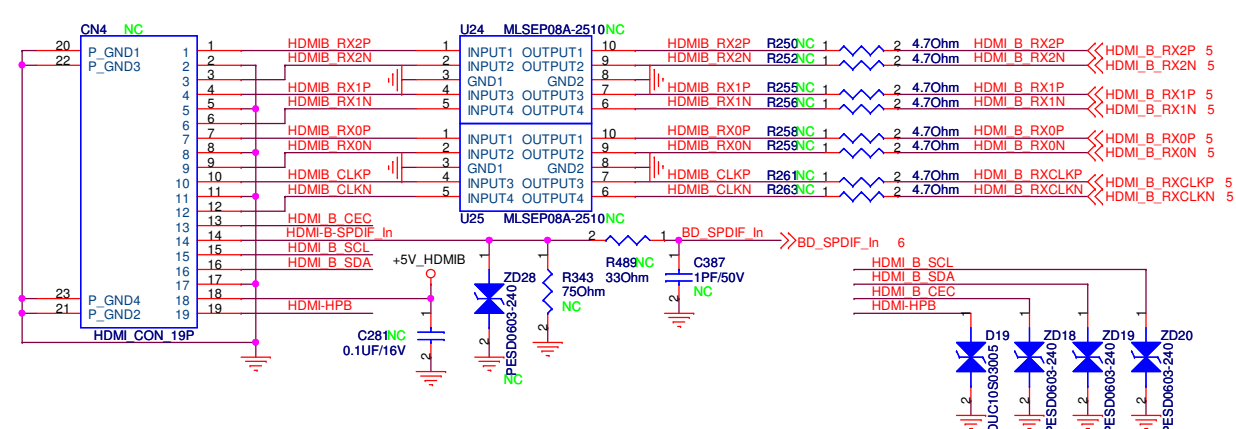
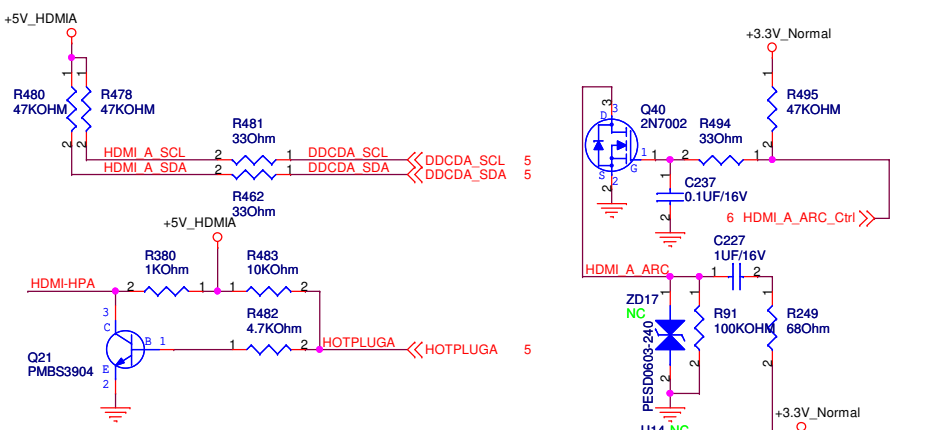
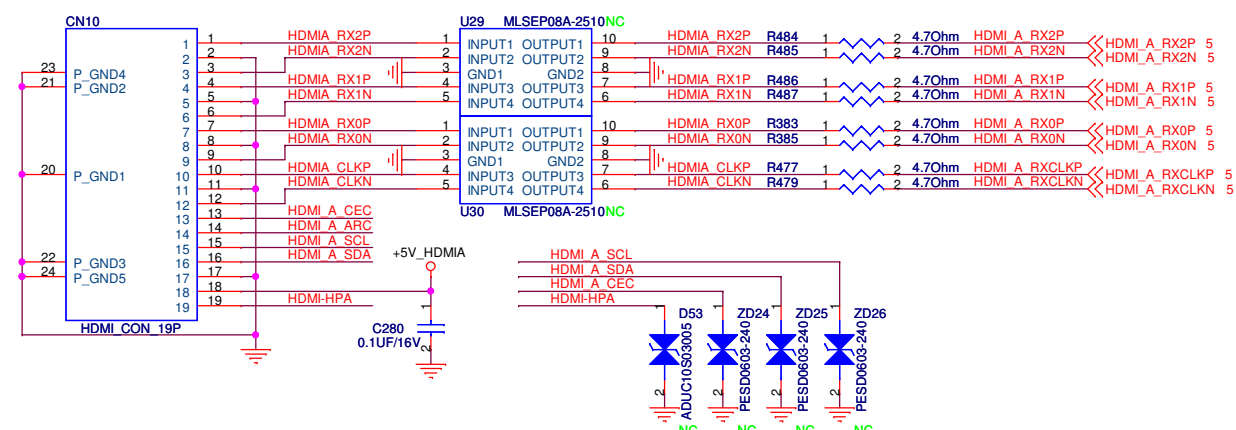
6 MIUB_WEZ >> MIUB_WEZ

6 MIUB_MCKE >> MIUB_MCKE

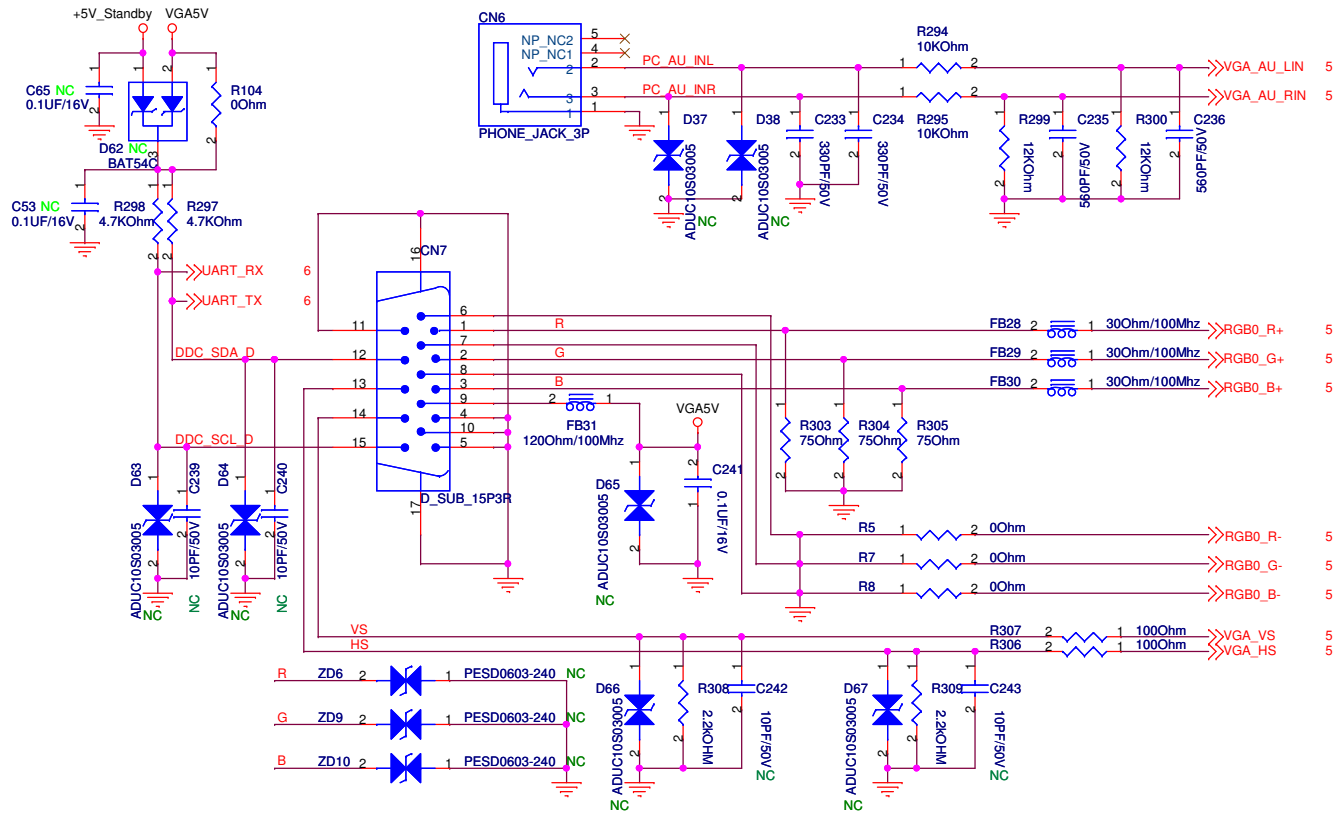
6 MIUB_BA1 >> MIUB_BA1

6 MIUB_BA0 >> MIUB_BA0



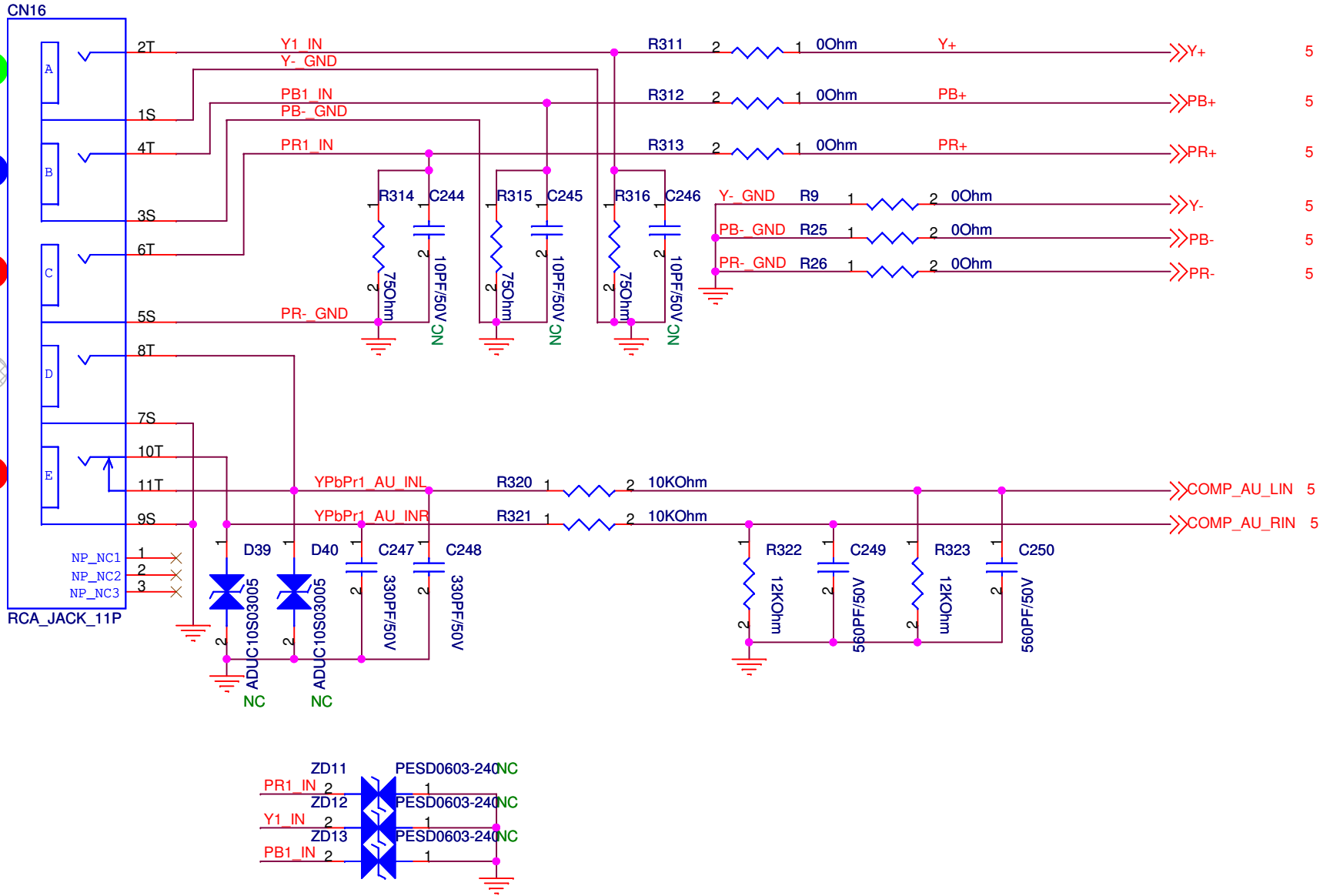


Unihan		Title : HDMI	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size	Project Name	Rev	
B	xxA(L)V833/xxE(H)L833/xxDB833	1.02	
Date: Wednesday, January 19, 2011	Sheet	10	of 18

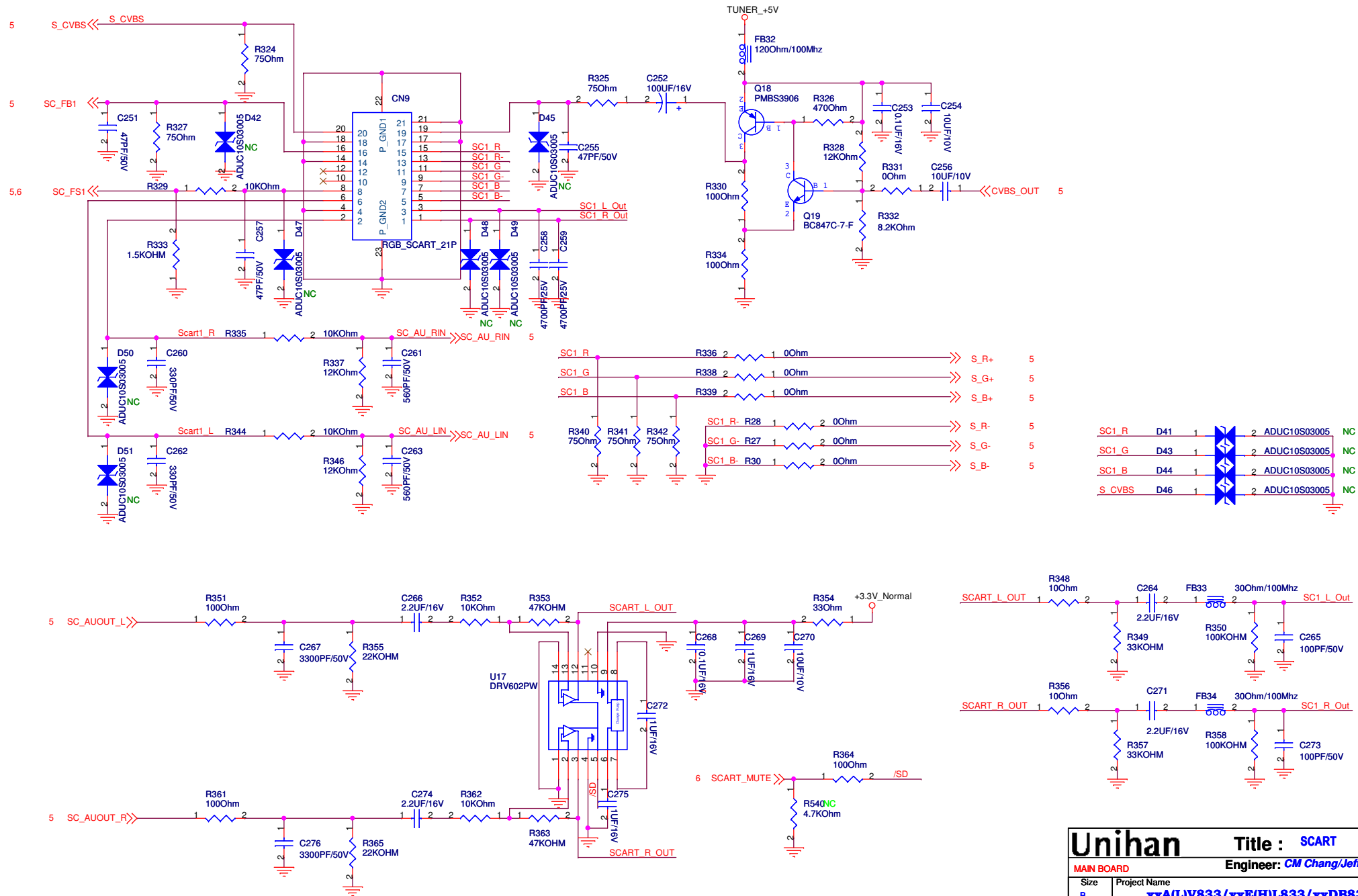


Unihan		Title : VGA	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size	Project Name	Rev	
B	xxA(L)V833/xxE(H)L833/xxDB833	1.02	
Date: Wednesday, January 19, 2011		Sheet	11 of 18

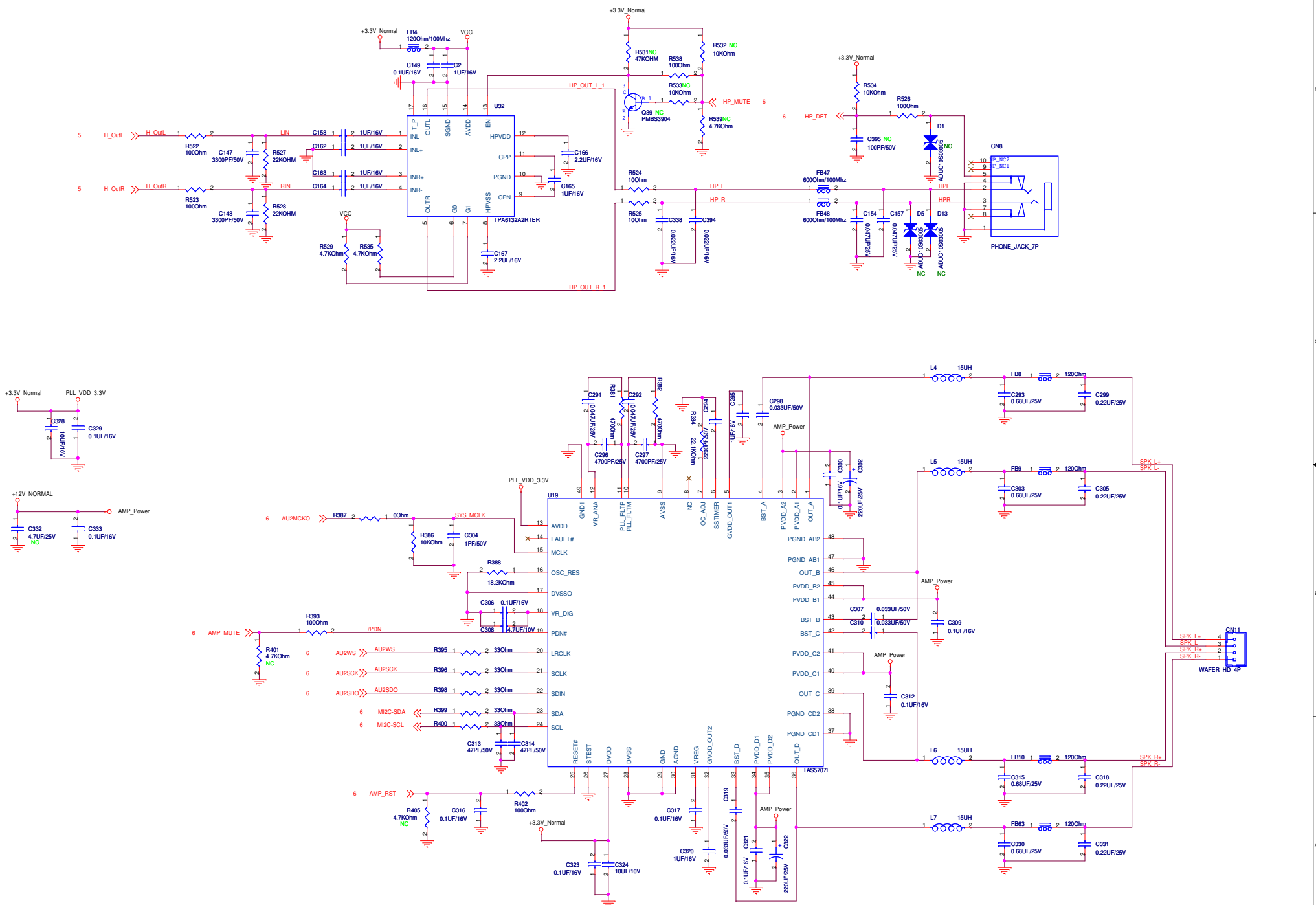
COMPONENT (Y Mix CVBS Input)

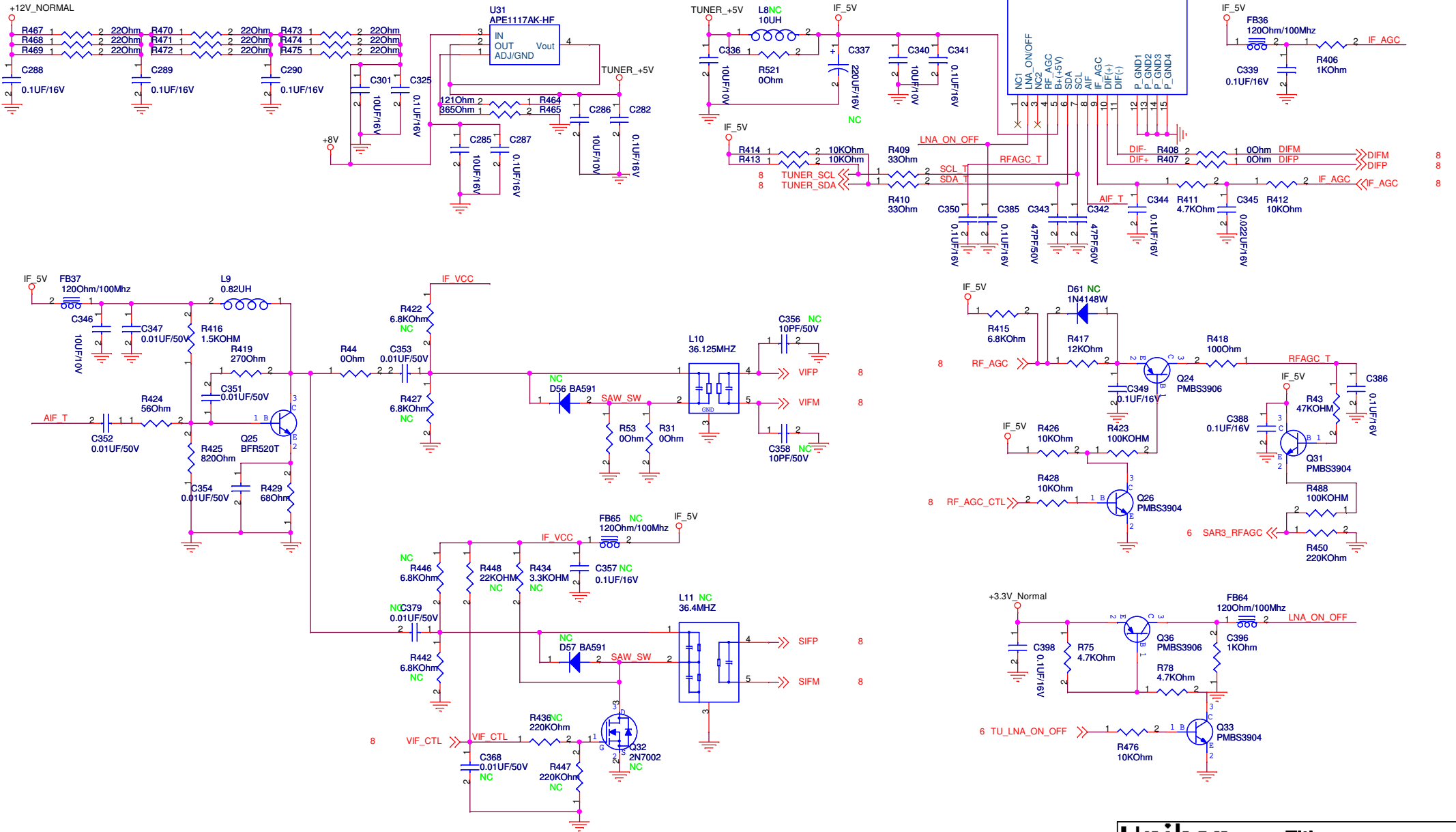


Unihan		Title : COMPONENT & CVBS	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size A	Project Name xxA(L)V833 / xxE(H)L833 / xxDB833	Rev 1.02	
Date: Wednesday, January 19, 2011		Sheet 12 of 18	

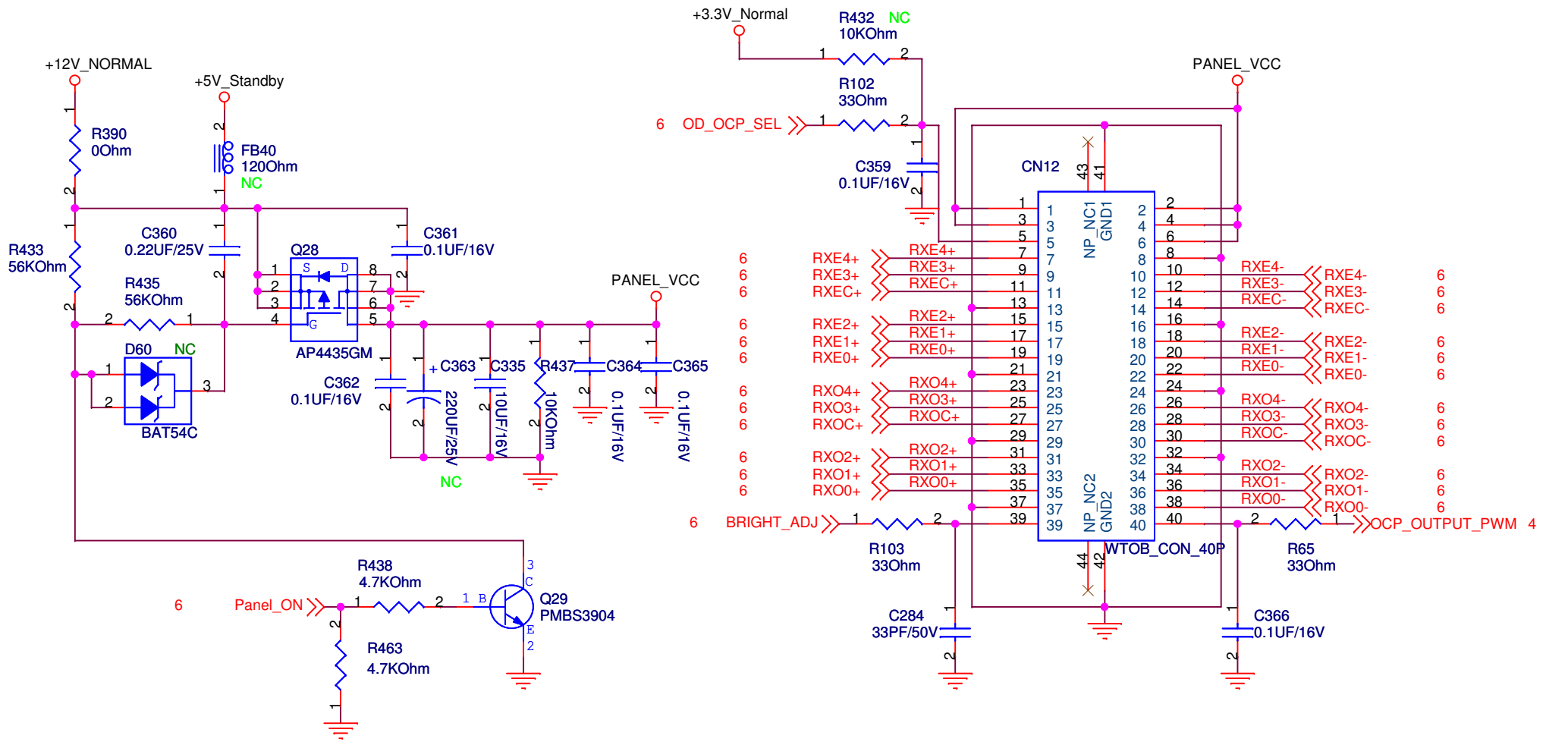


UniHan		Title : SCART	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size	Project Name		Rev
B	xxA(L)V833/xxE(H)L833/xxDB833		1.02
Date:	Wednesday, January 19, 2011	Sheet	13 of 18





Unihan		Title : Tuner	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size	Project Name	Rev	
B	xxA(L)V833/xxE(H)L833/xxDB833	1.02	
Date: Wednesday, January 19, 2011	Sheet	15	of 18

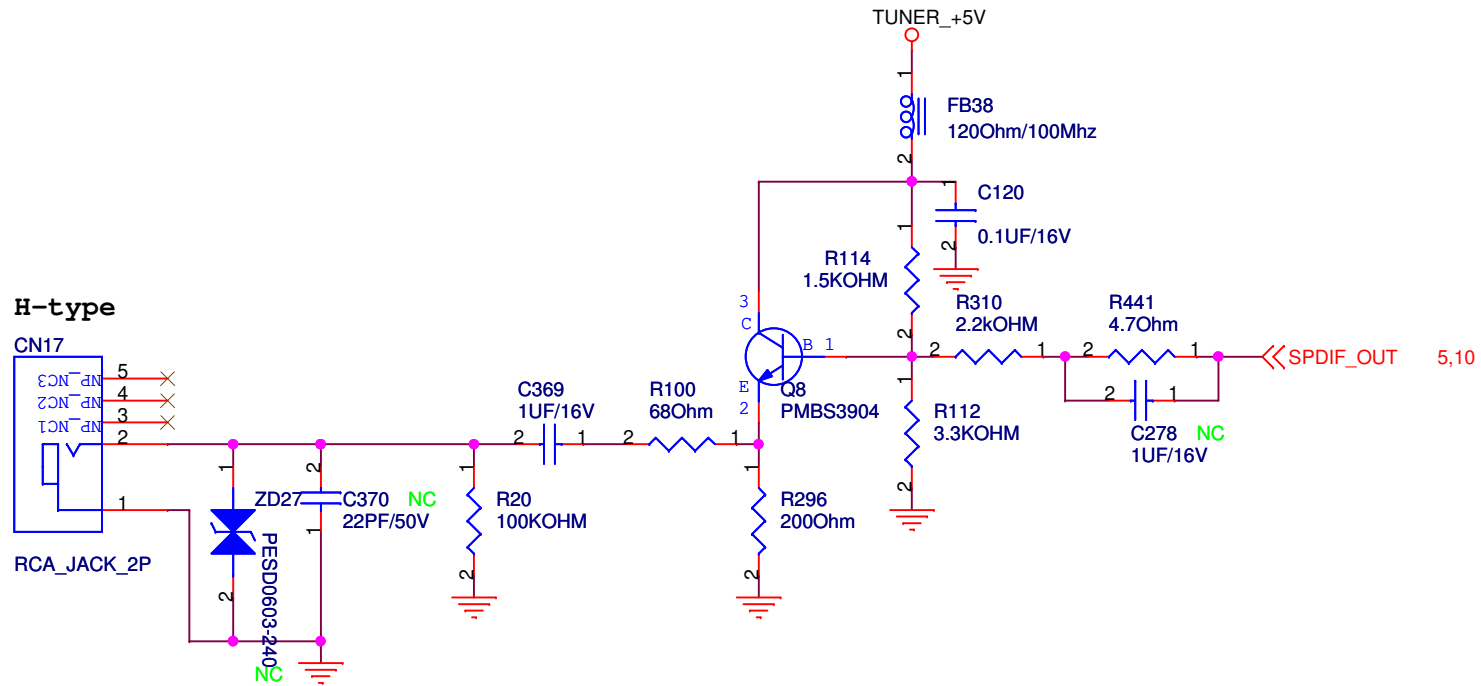


Unihan Title : LVDS Interface

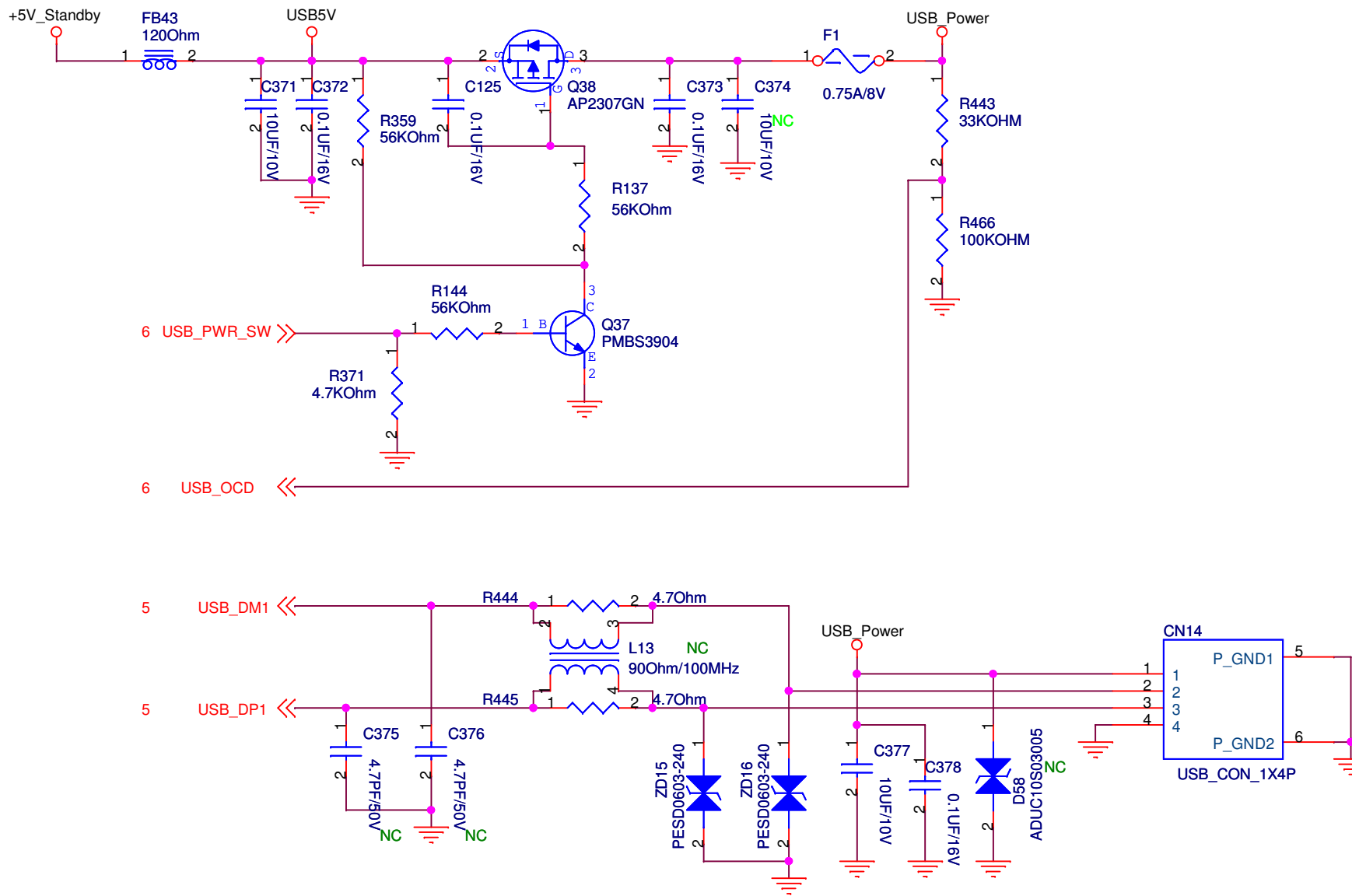
MAIN BOARD Engineer: CM Chang/Jeff Y Hsiao

Size	Project Name	Rev
A	xxA(L)V833/xxE(H)L833/xxDB833	1.02

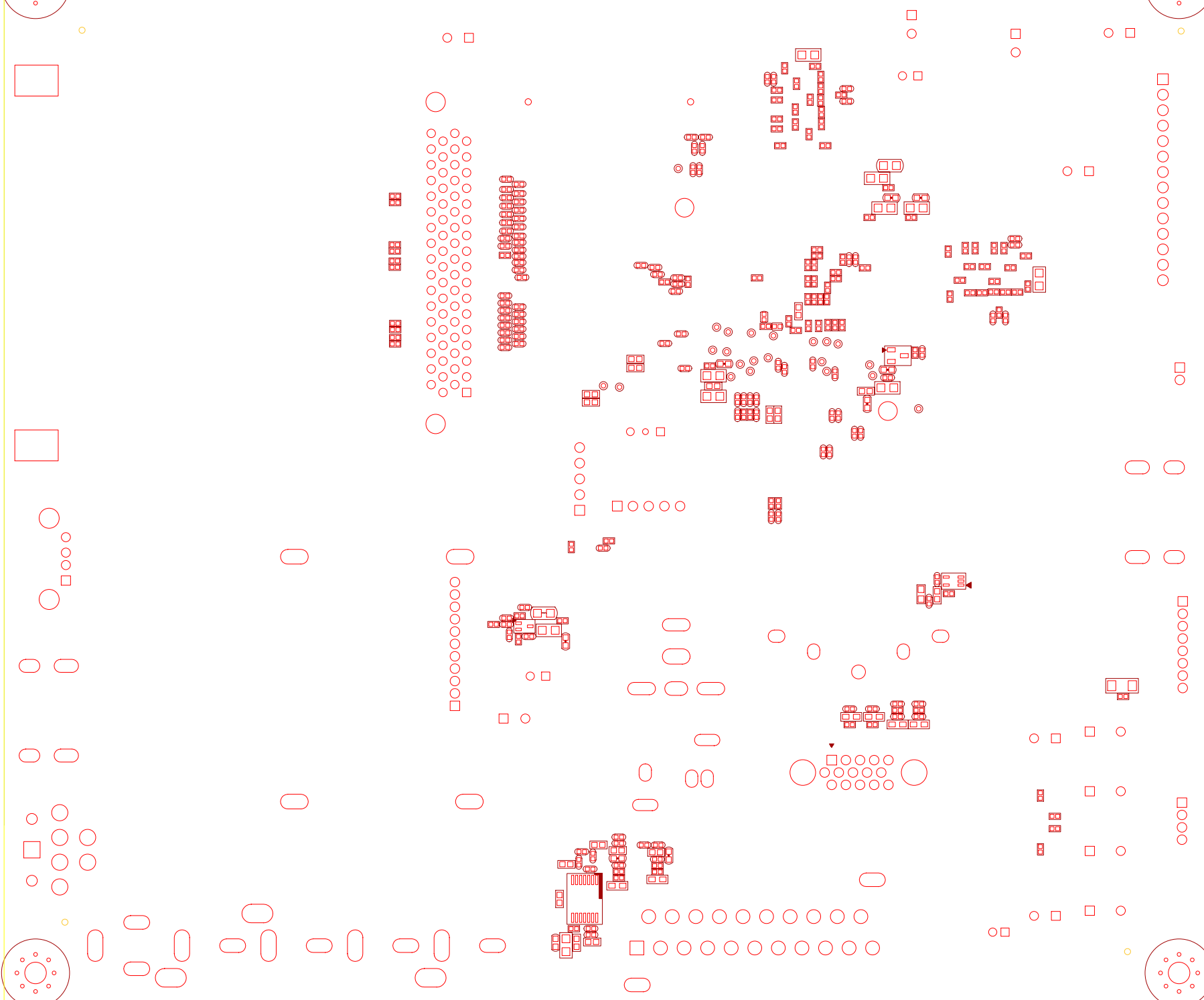
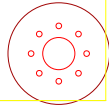
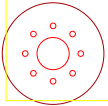
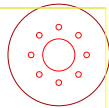
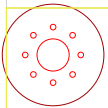
Date: Wednesday, January 19, 2011 Sheet 16 of 18

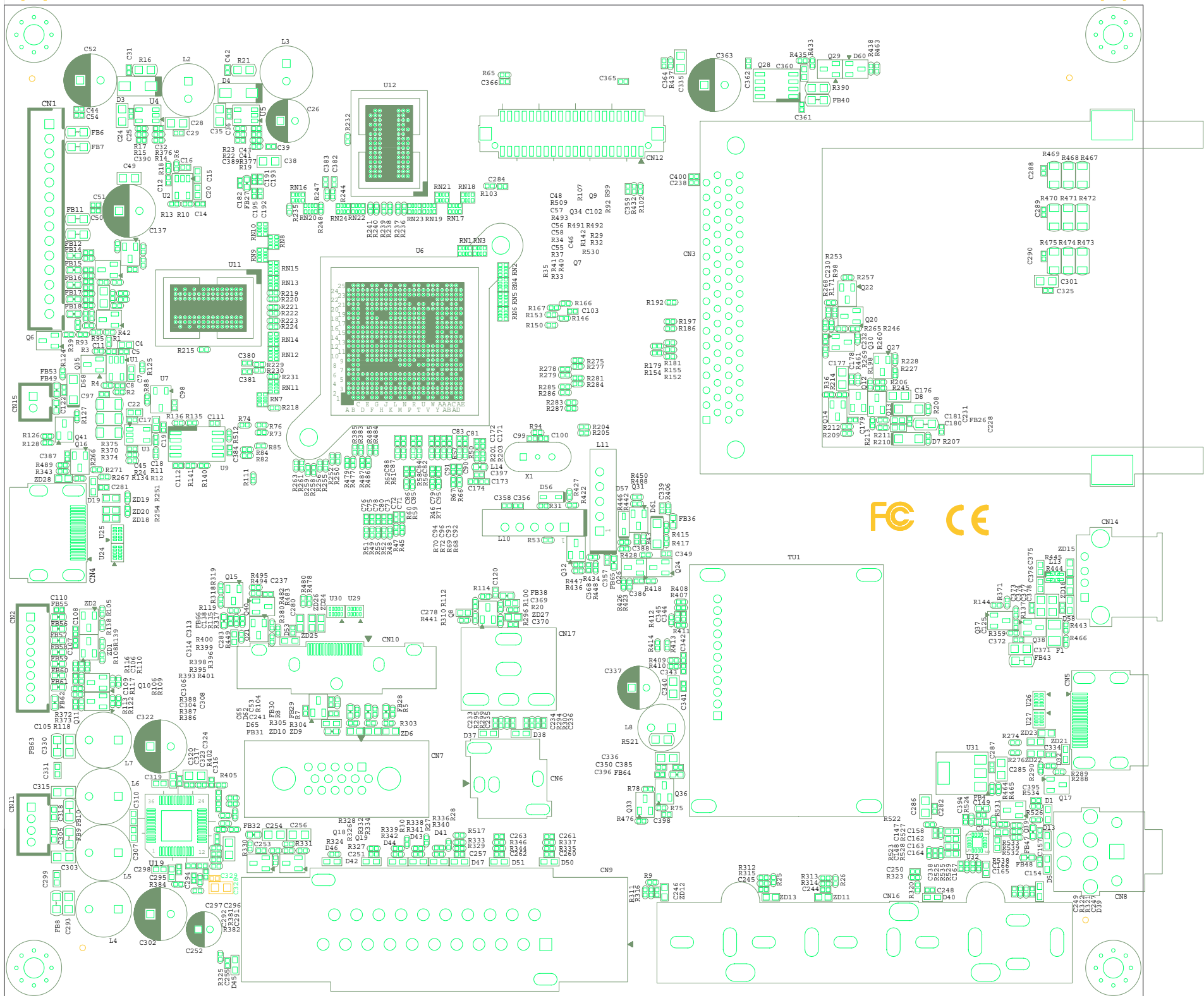


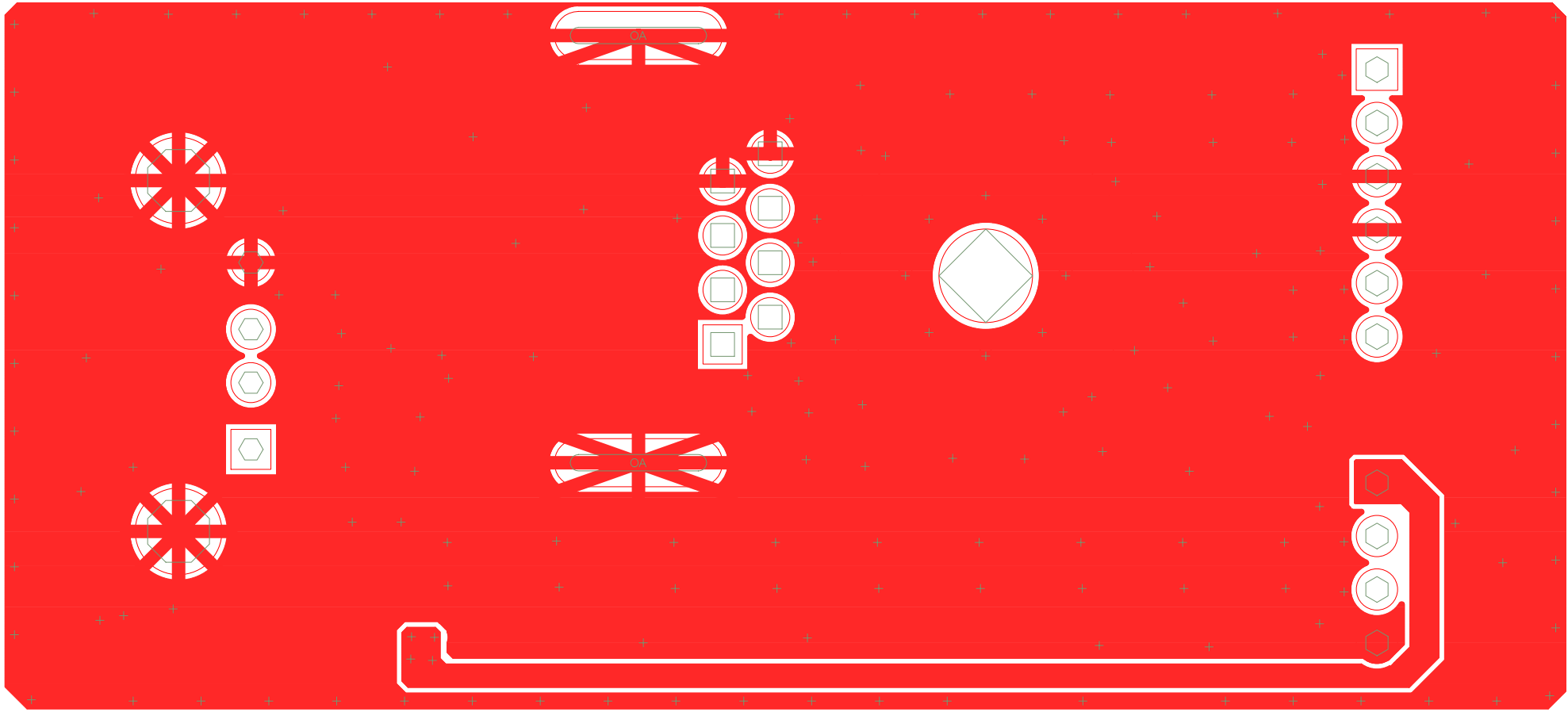
Unihan		Title : SPDIF OUT	
MAIN BOARD		Engineer: <i>CM Chang/Jeff Y Hsiao</i>	
Size A	Project Name xxA(L)V833/xxE(H)L833/xxDB833	Rev 1.02	
Date: Wednesday, January 19, 2011	Sheet 17 of 18		

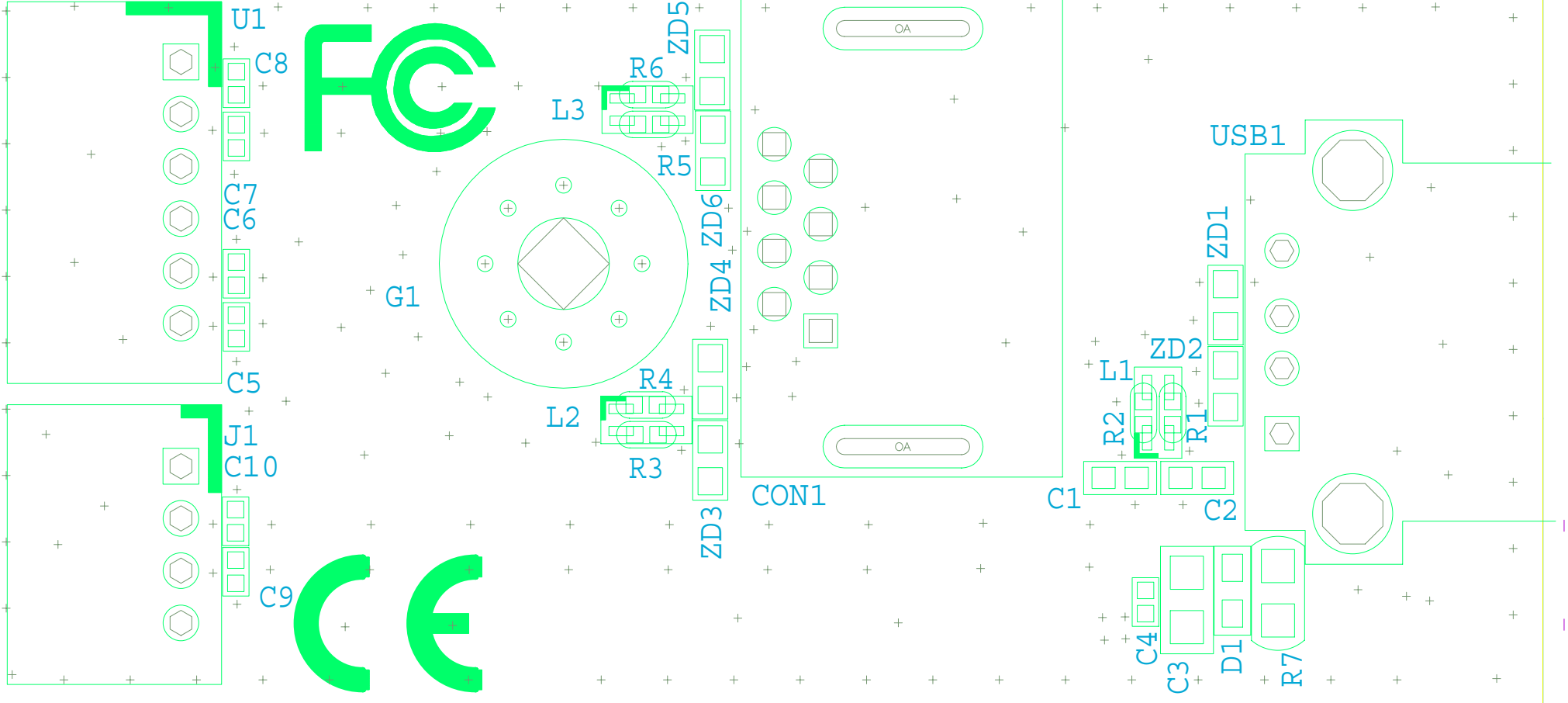


Unihan		Title : USB	
MAIN BOARD		Engineer: CM Chang/Jeff Y Hsiao	
Size A	Project Name xxA(L)V833/xxE(H)L833/xxDB833	Rev 1.02	
Date: Wednesday, January 19, 2011		Sheet 18 of 18	









RA

