

Service
Service
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Service Manual



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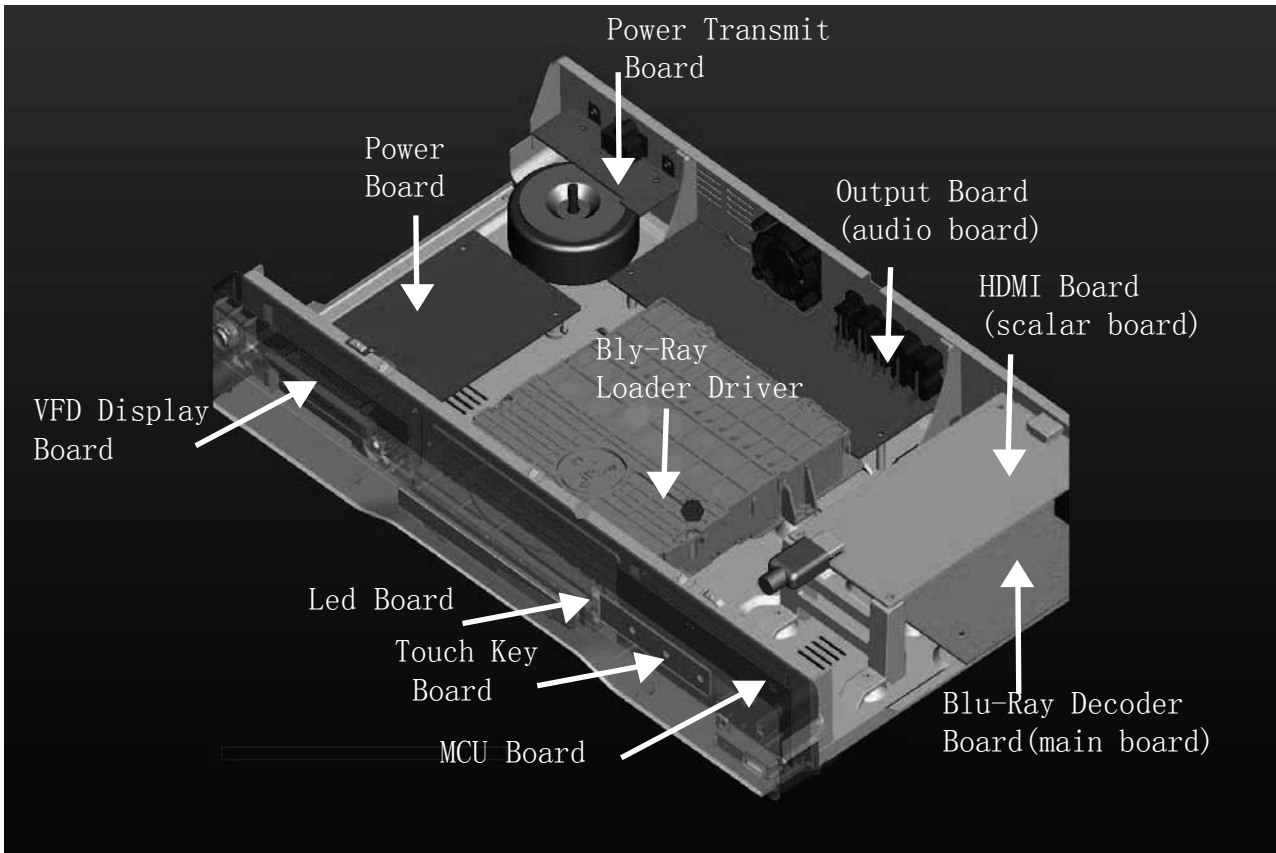
3141 785 34393

Version 1.3



PHILIPS

Location of PC Boards



VERSION VARIATIONS:

Type /Versions:		BDP9500										
Board in used:	Service policy	/05	/12	/51	/55	/58	/61	/73	/93	/94	/96	/98
Output Board (Audio Board)			M	M				M	M			
Blu-Ray Decoder Board			M	M				M	M			
VFD Display Board			C	C				C	M/C			
Touch Board			C	C				C	C			
Led Board			C	C				C	C			
Power Board			M	M				M	M			
MCU Board			C	C				C	M/C			
HDMI Board			M	M				M	M			
Power Transmit Board			C	C				C	C			
Type/Versions:		BDP9500										
Features	Feature difference	/05	/12	/37	/51	/58	/61	/73	/93	/94	/96	/98
RDS												
VOLTAGE SELECTOR												
ECO STANDBY - DARK		√	√		√			√	√			
TDS												
* TIPS : C -- Component Lever Repair M -- Module Lever Repair √ -- Used												

Electronic Specification

AMPLIFIER

Rated Output Power	NA
Signal-to-noise ratio	≤ -120dB
Frequency response	20Hz~20KHz ≤ 0.1dB
Aux Input	NA

DISC

Laser Type	Semiconductor
Disc Diameter	12cm/8cm
Support Disc	BD-Video, DVD-Video,Picture-CD,Video CD/SVCD, DivX-(Ultra)-CD,USB flash driver,WMA-CD,CD-DA, CD-R,CD-R,CD-RW,MP2,DVD,DVD-RW,DVD+RW
Audio DAC	24Bits/96kHz
Total Harmonic Distortion	<0.1%(1kHz)
Frequency Response	20Hz~20kHz
Signal to Noise Ratio	≥100dBA

TUNER

FM Tuning Range	NA
Tuning grid	NA

Sensitivity

- Mono, 26db S/N Ratio	NA
- Stereo, 50db SN Ratio	NA
Selectivity	NA
Image Rejection	NA
Total Harmonic Distortion	NA
Signal to Noise Ration	NA

SPEAKERS

Speaker Impedance	NA
Speaker Driver, base	NA
Speaker Driver, tweeter	NA
Frequency Response	NA

GENERAL INFORMATION

Total Output power	NA
AC Power	230V/50Hz
Operation Power Consumption	NA
Standby Power Consumption	NA
Eco Standby Power Consumption	NA
Headphone Output	NA
USB Direct	Version 2.0

Dimensions

- Main unit (w x h x d)	437x91x268mm
- Speaker box (w x h x d)	NA
- Subwoofer(w x h x d)	NA

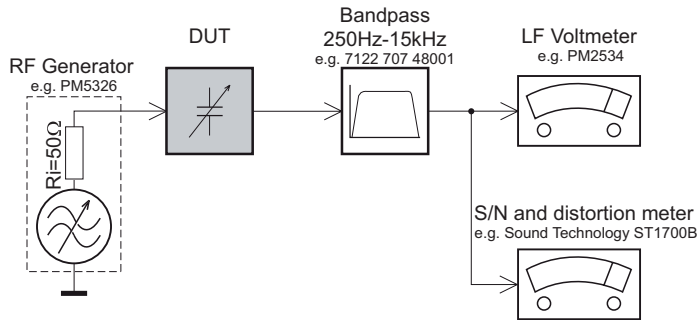
Weight

- With Packing	4.8KG
- Main unit	4.4KG
- Speaker box	NA
- Subwoofer	NA

Specifications and external appearance are subject to change without notice.

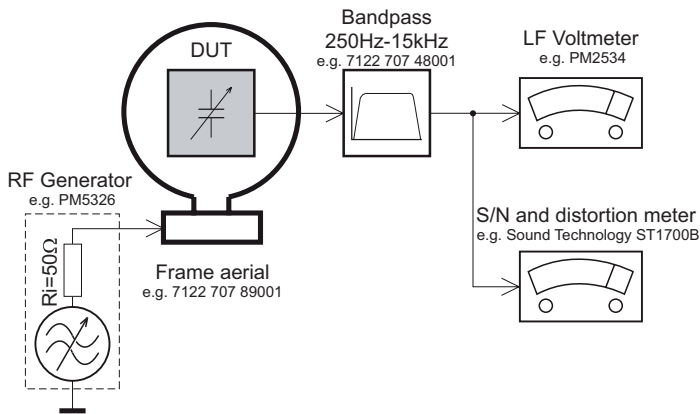
Measurement Setup

Tuner FM



Use a bandpass filter to eliminate hum (50Hz, 100Hz) and disturbance from the pilotone (19kHz, 38kHz).

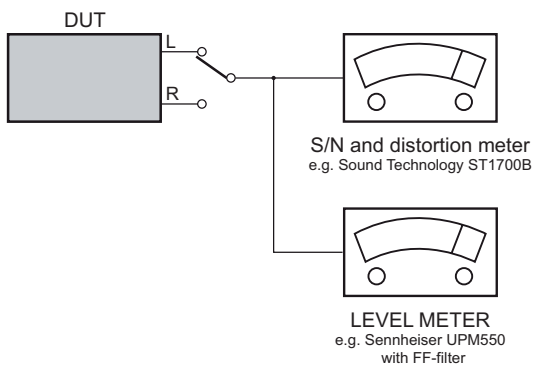
Tuner AM (MW,LW)



To avoid atmospheric interference all AM-measurements have to be carried out in a Faraday's cage. Use a bandpass filter (or at least a high pass filter with 250Hz) to eliminate hum (50Hz, 100Hz).

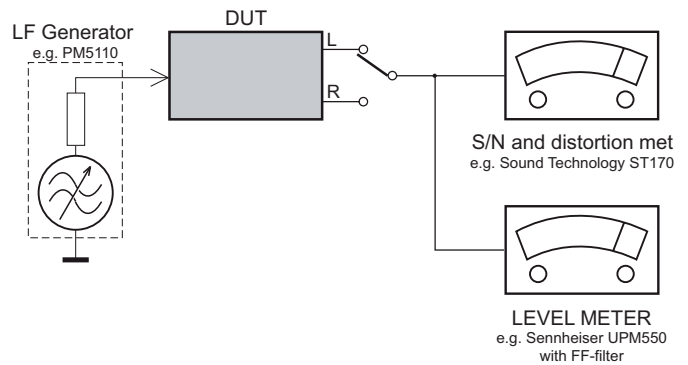
CD

Use Audio Signal Disc SBC429 4822 397 30184
(replaces test disc 3)



Recorder

Use Universal Test Cassette **CrO2** SBC419 4822 397 30069
or Universal Test Cassette **Fe** SBC420 4822 397 30071



Service Aids

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.

When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.


Keep components and tools also at this potential.

ESD



GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used

Safety components are marked by the symbol .

**CLASS 1
LASER PRODUCT**

INFORMATION ABOUT LEAD-FREE SOLDERING

Philips CE is producing lead-free sets from 1.1.2005 onwards.

IDENTIFICATION:

Regardless of special logo(not always indicated) one must treat all sets from 1 Jan 2005 onwards, according next rules:



- On our website www.atyourservice.ce.Philips.com you find more information to:
 - * BGA-de-/soldering (+ baking instructions)
 - * Heating-profiles of BGAs and other ICs used in Philips-sets
 - * Lead free

You will find this and more technical information within the "magazine", chapter "workshop news".

For additional questions please contact your local repair-helpdesk.

SERVICE INSTRUCTION

Safety regulations require that after a repair, the set must be returned in its original condition. Pay in particular attention to the following points:

- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the AC Power lead for external damage.
- Check the strain relief of the AC Power cord for proper function.
- Check the electrical DC resistance between the AC Power Plug and the secondary side (only for sets which have a AC Power isolated power supply):
 1. Unplug the AC Power cord and connect a wire between the two pins of the AC Power plug.
 2. Set the AC Power switch to the "on" position (keep the AC Power cord unplugged!).
 3. Measure the resistance value between the pins of the AC Power plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be larger than 4.5 Mohm (For U.S. it should be between 4.2 Mohm and 12 Mohm).
 4. Switch "off" the set, and remove the wire between the two pins of the AC Power plug.
- Check the cabinet for defects, to avoid touching of any inner parts by the customer.

Items of Safety Attention

Maintenance Attention

Attention: Please read <Items of Safety Attention> carefully. If there are unexpected conflicts between safety attention and maintenance attention, please abide to safety attention: Safety first.

Common Maintenance Attention

- ① Before operating, please unplug the AC power cord from the outlet.
 - a) Disassemble any parts.
 - b) Cut-off or re-connect plug and other inserting parts.
 - c) When electrolysis capacitance and test parts is parallel connected, anti-polarity and wrong replace will cause explosion.
- ② Do not spray chemical on the component system, surroundings and any parts.
- ③ Clean the electric junction with a cotton stick which is with cleaning mixture, except there is other demand in this manual.

Please notes:

It is a kind of inflammable mixture.

 - ▶ Do not use lubricant to the soldering point, except there is
 - ▶ other demand in this manual

Common Controlling

During maintenance, please take common controlling to protect component system and electronic parts and prevent damages to the circuit due to improper operation.

Led out wire should be kept away from high-pressure or high-temperature parts.

ES

Some semi-conductor parts are easily damaged by static charges, these parts are called: ES. They are mainly the cores of transistor lead identification. The following technical ways can be used to reduce the damages by static charges.

Before connecting semi-conductor or the parts. Let off the static charges of the body by connection the earth. In the other hand, to prevent potential electric shock hazard, please use industrial static handle before connecting power for checking the equipment.

- ① After unsoldering the ES parts, put the parts on a electric surface such as aluminum foil to prevent accumulating static charges to damage the parts.
- ② Only use anti-static charges grounded soldering irons to unsolder the parts or solder ES parts.
- ③ Some soldering tin called "Anti-static charges" can also generate charges to damage ES parts.
- ④ Do not use poisonous and caustic agent which these kinds of chemicals can generate static charges to damage the ES parts.
- ⑤ Do not take ES parts out of conductive packages until they are used (mostly replacing ES parts is packed with aluminum foil or similar conductive materials making a short circuit).
- ⑥ After taking replaceable ES parts from Anti-static charges cone, please insert the ES parts in the correctly location soon as possible.
- ⑦ During handing sealed ES parts, reduce the movement of the body (clothes rubbing and moving on the rug can generate static charge to damage the ES parts.)

Common Soldering Rules

- ① Use only grounded low-voltage soldering iron, and proper size and shape which can sustain the temperature of soldering horn to range from 350 to 390.
- ② Use rosin flux which is demanded by RMA ; include 60%Tin 40% lead.
- ③ To maintain soldering iron and its tin very well.
- ④ Use the wire brush but not spray cleaners such as Freon to clean the soldering surface.
- ⑤ Adopt the melting ways:
 - a) The temperature of soldering horn range from 350 to 390.
 - b) Heat up the parts pin, until soldering tin is molten.
 - c) Use the desoldering pump to suck out the molten soldering tin quickly.

Note: Quickly operating can prevent superheating the electronic-plating copper.
- ⑥ Adopt the following soldering ways.
 - a) The temperature of soldering horn range from 350 to 390.
 - b) Hold the soldering iron and welding rod pointed to the parts pin, until soldering tin is molten. Then move the soldering horn quickly to the location that you want to solder.

Note: Quickly operating can prevent superheating electronic-plating copper of printed circuit board.

 - c) Check the welting zone carefully, then brush the unwanted soldering tin away with a wire brush.

Unsolder/Replace IC

Notes:

- ① Do not touch the IC body directly with soldering iron.
 - ② Pre-heating soldering iron at about 130 for some seconds avoid the damages caused by IC heated suddenly.
 - ③ For normal IC, the temperature of the solder horn is about 350, and can increase to 390 for some bigger IC.
 - ④ Use the filamentous welding rod and solder which thickness is about 0.3mm to solder thin IC and add the solder as needed.
 - ⑤ Replace the IC carefully and solder it quickly.
 - ⑥ After unsoldering the IC, clean the basic board carefully to ensure the board is usable.
 - ⑦ Prevent the molten soldering tin dripping on the board which will engender a short circuit.
 - ⑧ Aim at the first terminal and fix it, then aim at other terminals for correctly inserting IC. You can solder quickly just like this.
 - ⑨ Before operating, please make sure the IC is unusable. Do not unsolder repeatedly.
 - ⑩ During soldering especially soldering a thin IC with many pins, check the weld carefully.
 - ⑪ After replacing, check that there is not soldering leak, rosin joint, short circuit and so on.
- Unsolder:
- ① Use the soldering iron to melt the soldering tin.
 - ② Before unsoldering IC, suck out the molten solder tin.
- Replace:
- ① Make sure all the IC pins are on their correct location, then solder.
 - ② Use a wire brush to clean the welting zone.

Items of Safety Attention

U

- ① After unsoldering the unusable diode, nip its body and take it out.
- ② Bend the two pins and the diode is vertical to circuit board.
- ③ Check the polarity of the diode, then place its pins to the correct location.
- ④ Pin the joint and solder it.
- ⑤ Check the weld carefully. If the surface of the weld is not smooth, please solder it again.

R -

- ① Repair the warpage copper as following:
- ② Use a sharp knife to scrape the unusable copper and the unwanted solder off.
- ③ Make one side of the lead bent like a small "U", then put the "U" to IC pins and solder. Another side of the lead is extended until overlap with the well copper then solder. Cut the unwanted lead.

T D D

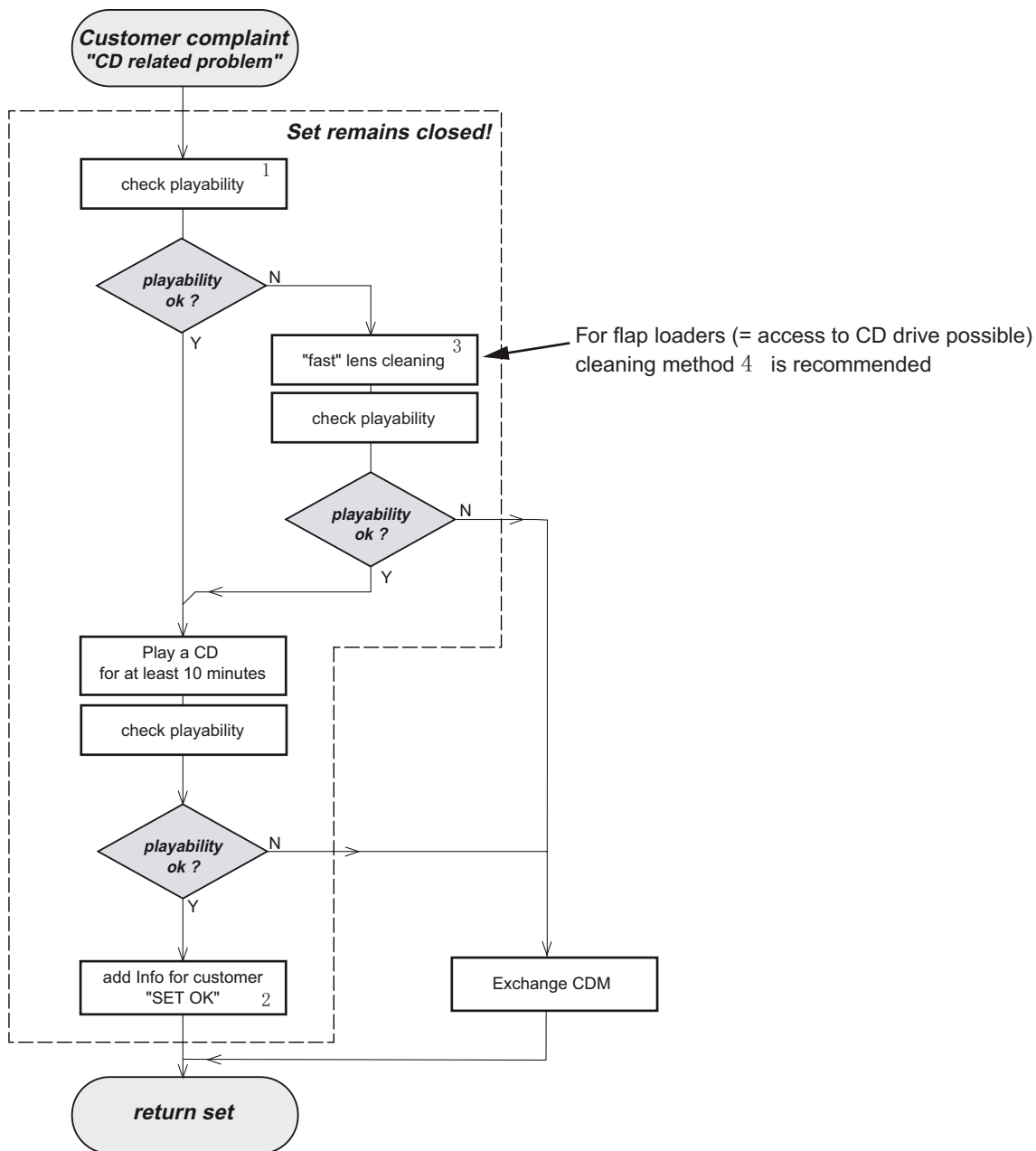
No sound or sound distorted when playing, please check the DVD part.

N

Before operating, read these notes as following to prevent the static charges damageing the laser head when reading the laser led.

- ① Lay an electric rug on the working table and the replaced parts are packed in black package.
- ② The electric rug is grounding by put on the electric base. Then put your hand on the electric rug and connect the static handle with the electric rug. Make sure the electric rug and the working table are grounding.
- ③ During the operating, do something such as operating on the electric rug to avoid the static charges touching the laser parts. After that, you can begin to take the laser parts down.
- ④ When replace the laser parts, please do something to make a short circuit and remember to cut the short circuit off after replacing.

Instruction On CD Playability



1 - 4 For description - see following pages

Instruction On CD Playability

PLAYABILITY CHECK

For sets which are compatible with **CD-RW** discs
 use CD-RW Printed Audio Disc7104 099 96611
 TR 3 (Fingerprint)
 TR 8 (600µ Black dot) **maximum at 01:00**

- playback of these two tracks without audible disturbance
 playing time for: Fingerprint ≥ 10 seconds
 Black dot from 00:50 to 01:10
- jump forward/backward (search) within a reasonable time

For all other sets
 use CD-DA SBC 444A4822 397 30245
 TR 14 (600µ Black dot) **maximum at 01:15**
 TR 19 (Fingerprint)
 TR 10 (1000µ wedge)

- playback of all these tracks without audible disturbance
 playing time for: 1000µ wedge ≥ 10 seconds
 Fingerprint ≥ 10 seconds
 Black dot from 01:05 to 01:25
- jump forward/backward (search) within a reasonable time

CUSTOMER INFORMATION

It is proposed to add an addendum sheet to the set which informs the customer that the set has been checked carefully - but no fault was found. The problem was obviously caused by a scratched, dirty or copy-protected CD. In case problems remain, the customer is requested to contact the workshop directly. The lens cleaning (method 3) should be mentioned in the addendum sheet.

The final wording in national language as well as the printing is under responsibility of the Regional Service Organizations.

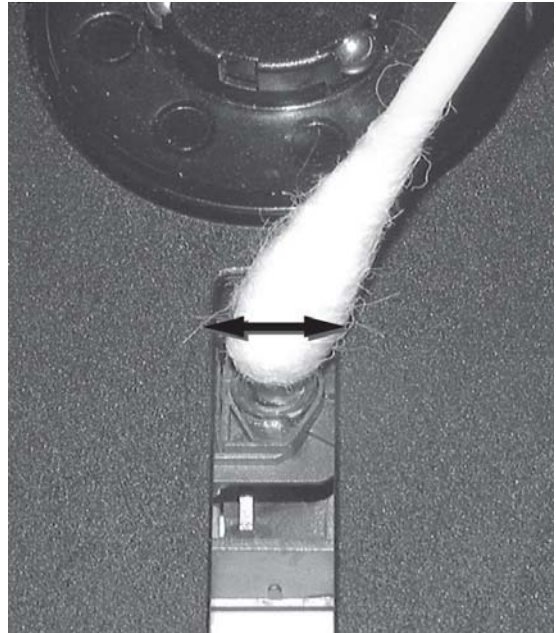
LIQUID LENS CLEANING

Before touching the lens it is advised to clean the surface of the lens by blowing clean air over it. This to avoid that little particles make scratches on the lens.

Because the material of the lens is synthetic and coated with a special anti-reflectivity layer, cleaning must be done with a non-aggressive cleaning fluid. It is advised to use "Cleaning Solvent


The actuator is a very precise mechanical component and may not be damaged in order to guarantee its full function. Clean the lens gently (don't press too hard) with a soft and clean cotton bud moistened with the special lens cleaner.

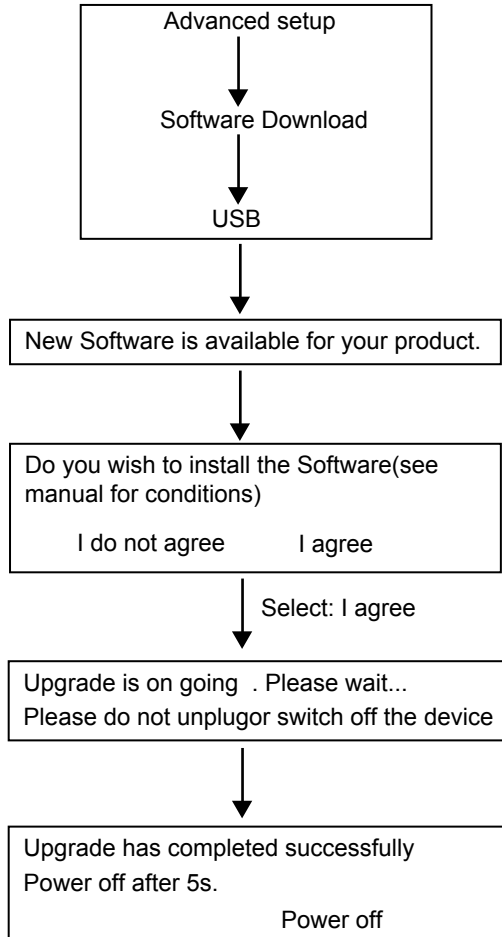
The direction of cleaning must be in the way as indicated in the picture below.




Software Version Check and Upgrade

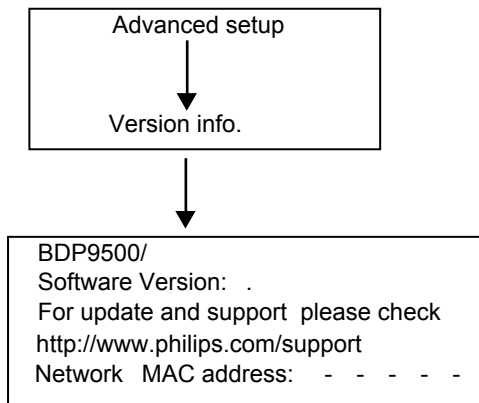
Upgrade software

1. Download the software from Philips support website
<http://www.philips.com/support>
2. Insert the USB device with the Software.
3. Press the  on the Remote Control and TV show:

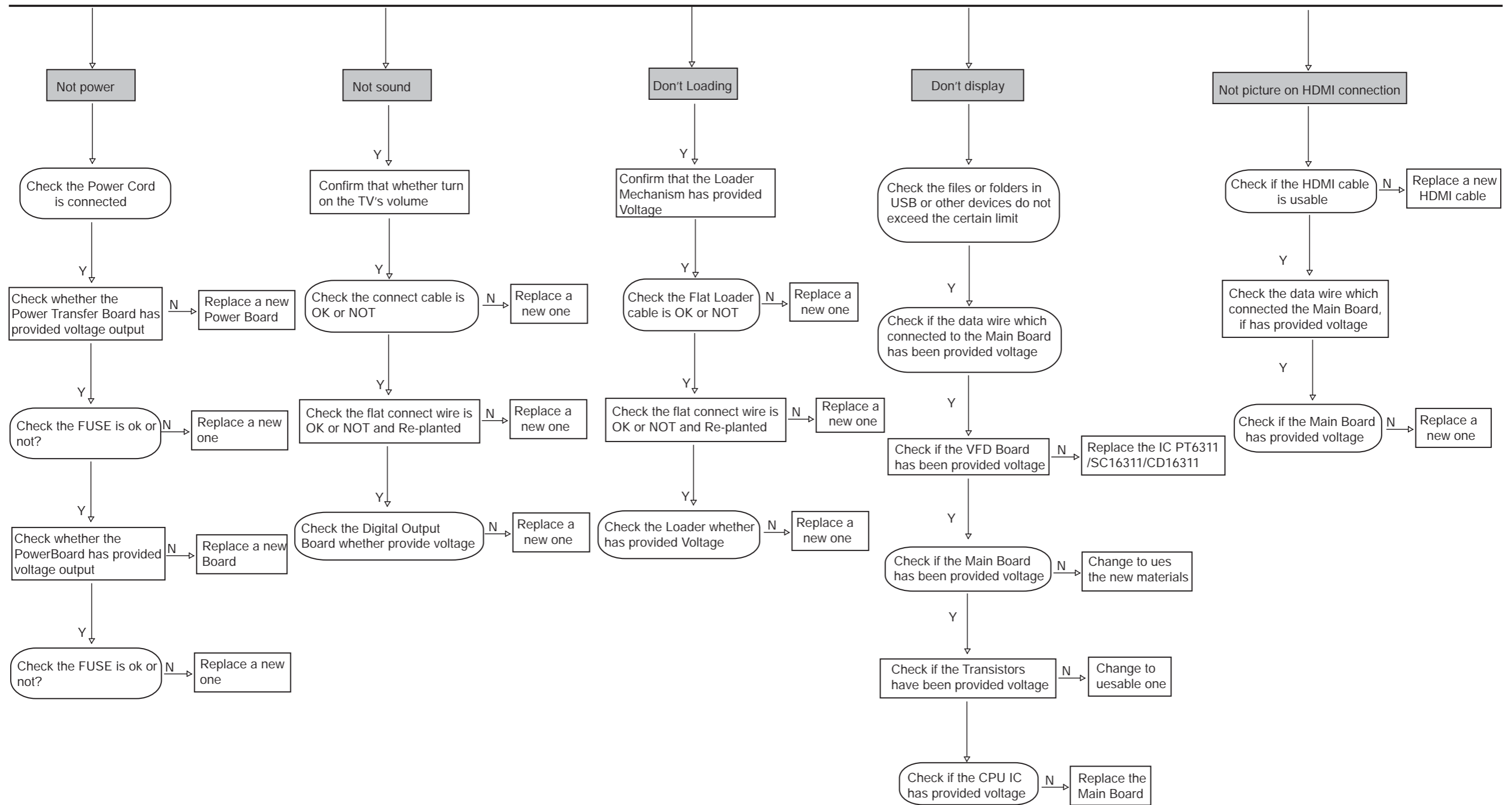


Software version and date check

1. Press the  on the Remote Control and TV show:

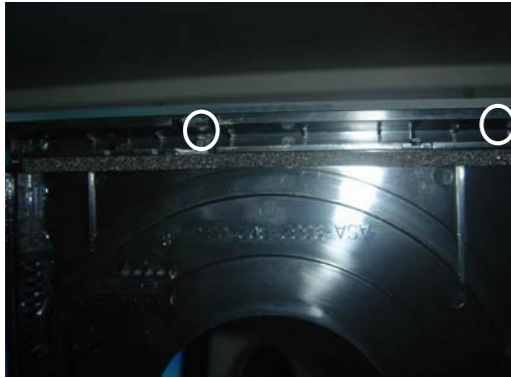


Malfunction Follow Check Chart

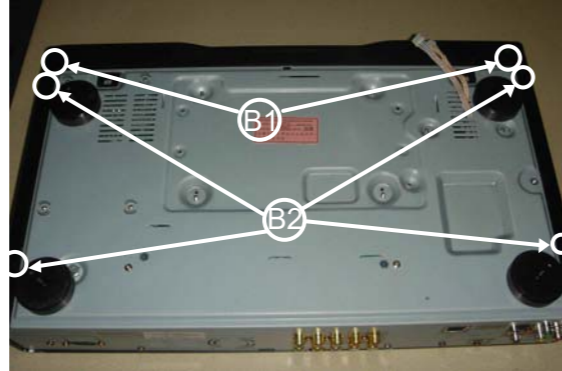


Disassembly Diagram

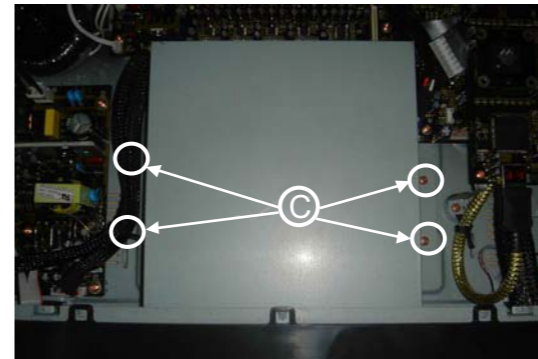
A. Loose these Claspers to remove the DVD Door



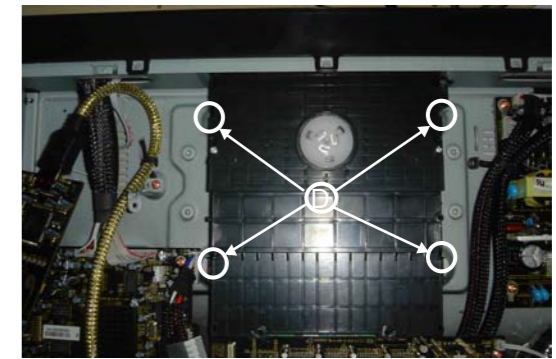
B. Remove the Top Cover
B1. Loose 2pcs screws(3 x 8 KA)
E2. Loose 4pcs screws(3 x 5 KMTT)



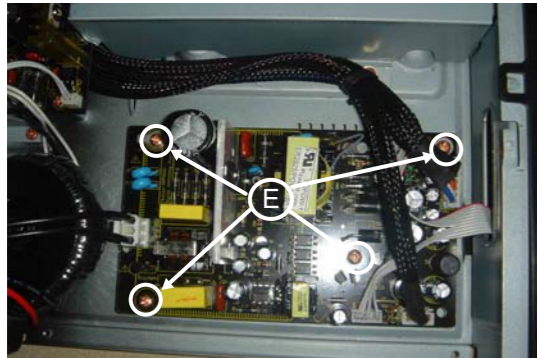
C. Loose 4pcs screws (3 x 5 BMTT) to remove the Blu-Ray Loader Driver Mechanism Cover



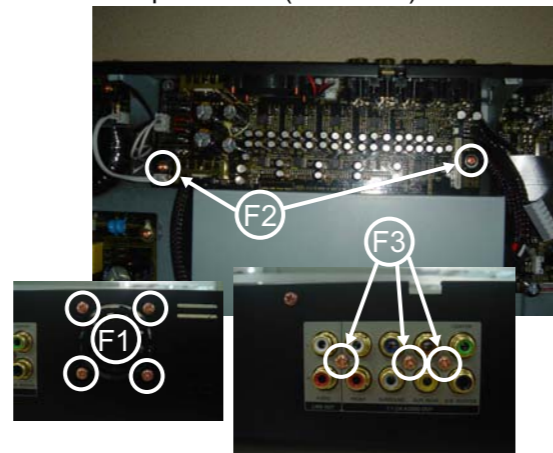
D. Loose 4pcs screws(3 x 8 BMTT) to remove the Blu-Ray Loader Driver Mechanism



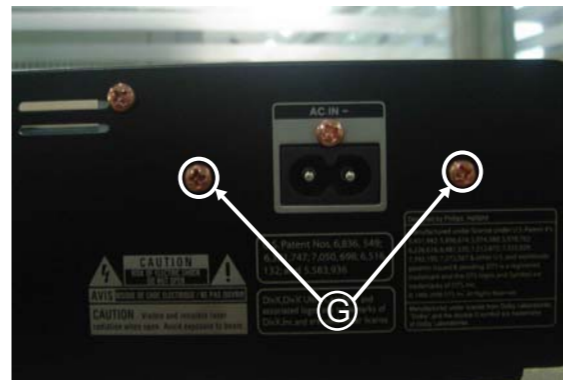
E. Loose 4pcs screws (3 x 16 BMTT) to remove the Power Board



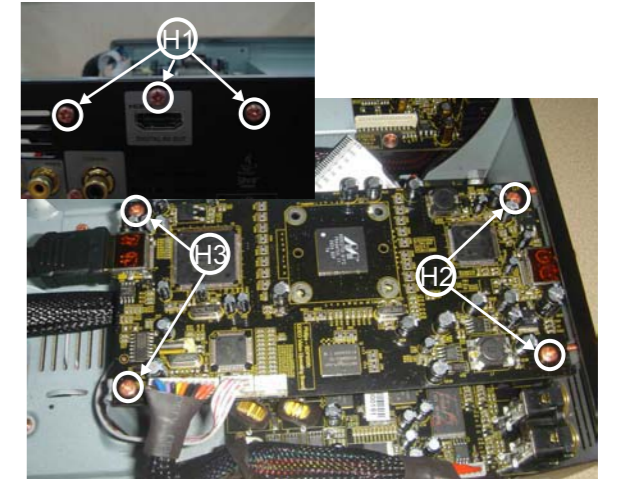
F. Remove the Output Board(Audio Board)
F1. Loose 4pcs screws(3 x 15 BM) to remove the Fans
F2. Loose 2pcs screws(3 x 6 BM)
F3. Loose 3pcs screws(3 x 10 BA)



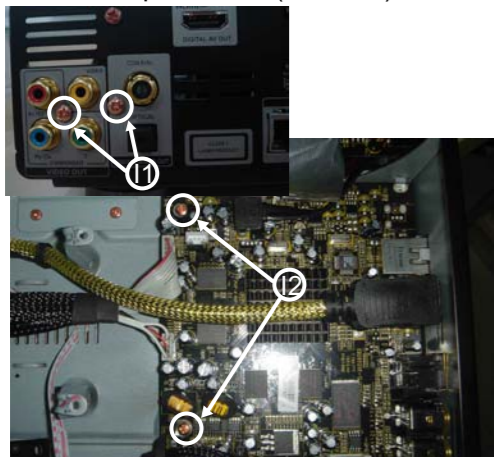
G. Loose 2pcs screws(3 x 5 BMTT) to remove the Power Transmit Board



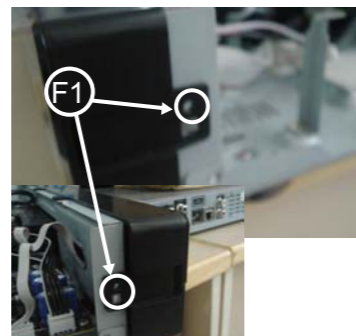
H. Remove the HDMI Board(Scalar Board)
H1. Loose 3pcs screws(3 x 5 BMTT)
H2. Loose 2pcs screws(3 x 5 BMTT/silver)
H3. Loose 2pcs screws(3 x 8 BA)



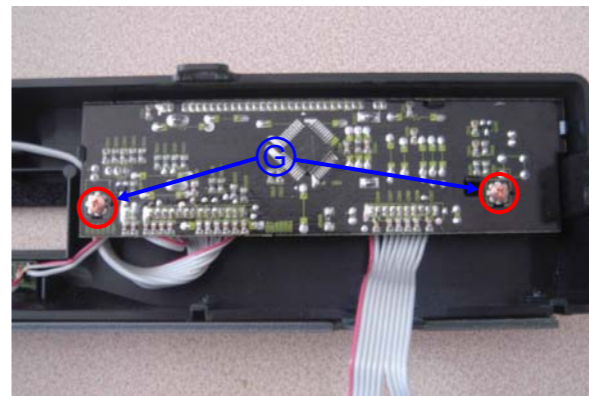
I. Remove the Decoder Board(Main Board)
I1. Loose 2pcs screws(3 x 10 BA)
I2. Loose 2pcs screws(3 x 8 BA)



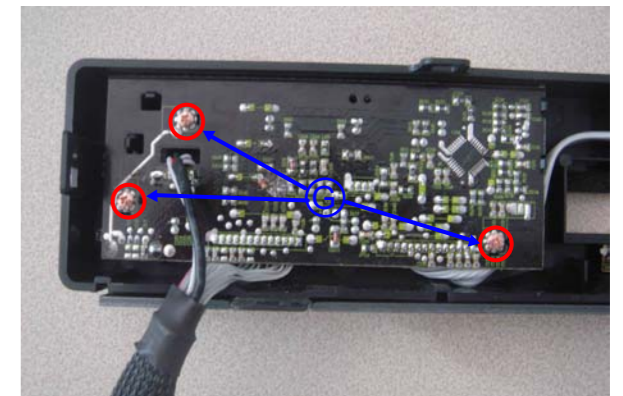
J. Loose 2pcs screws(3 x 5 BMTT) to remove Front Cabinet



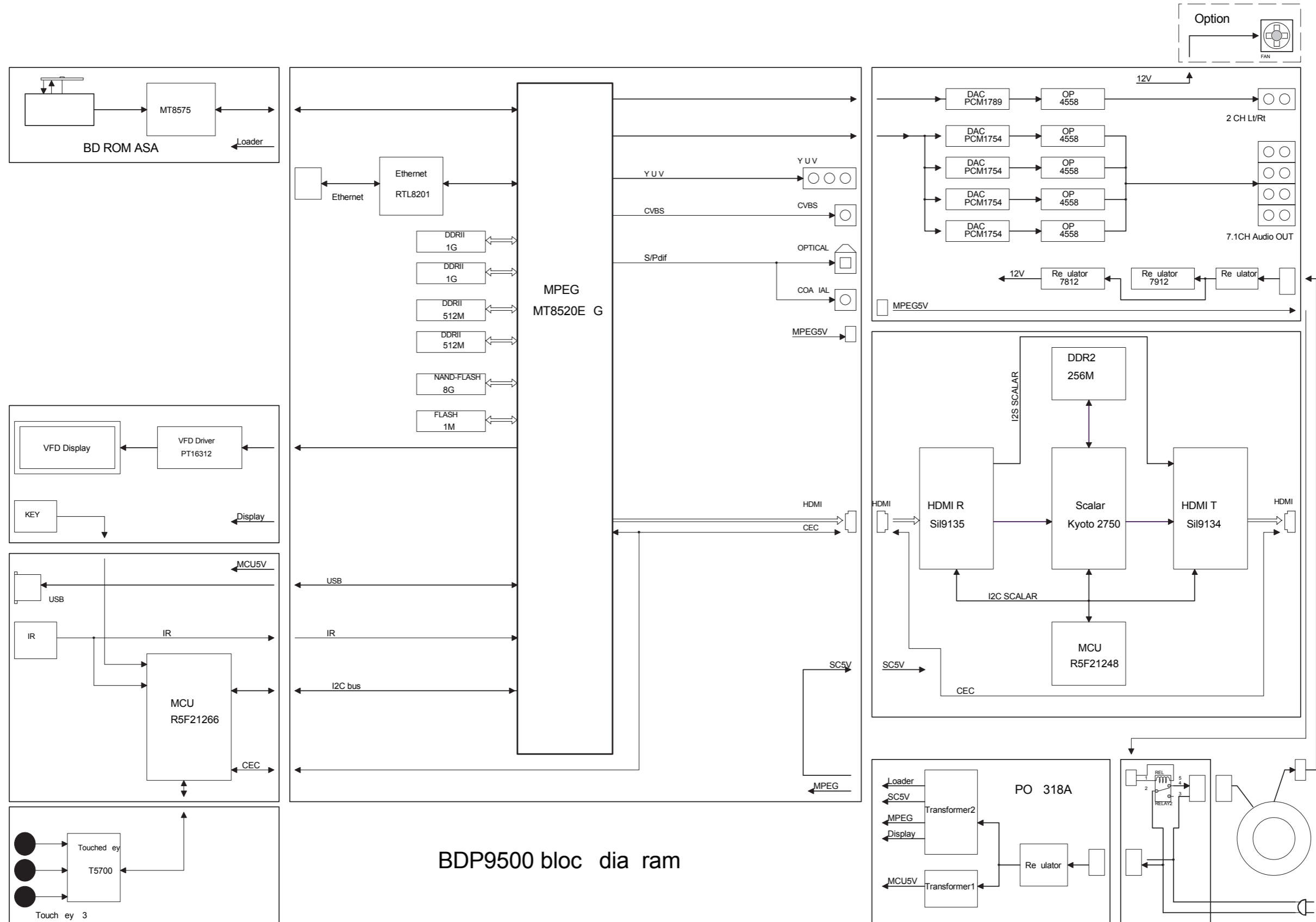
K. Loose 2pcs screws(2.6 x 8 BT) to remove the Display Board



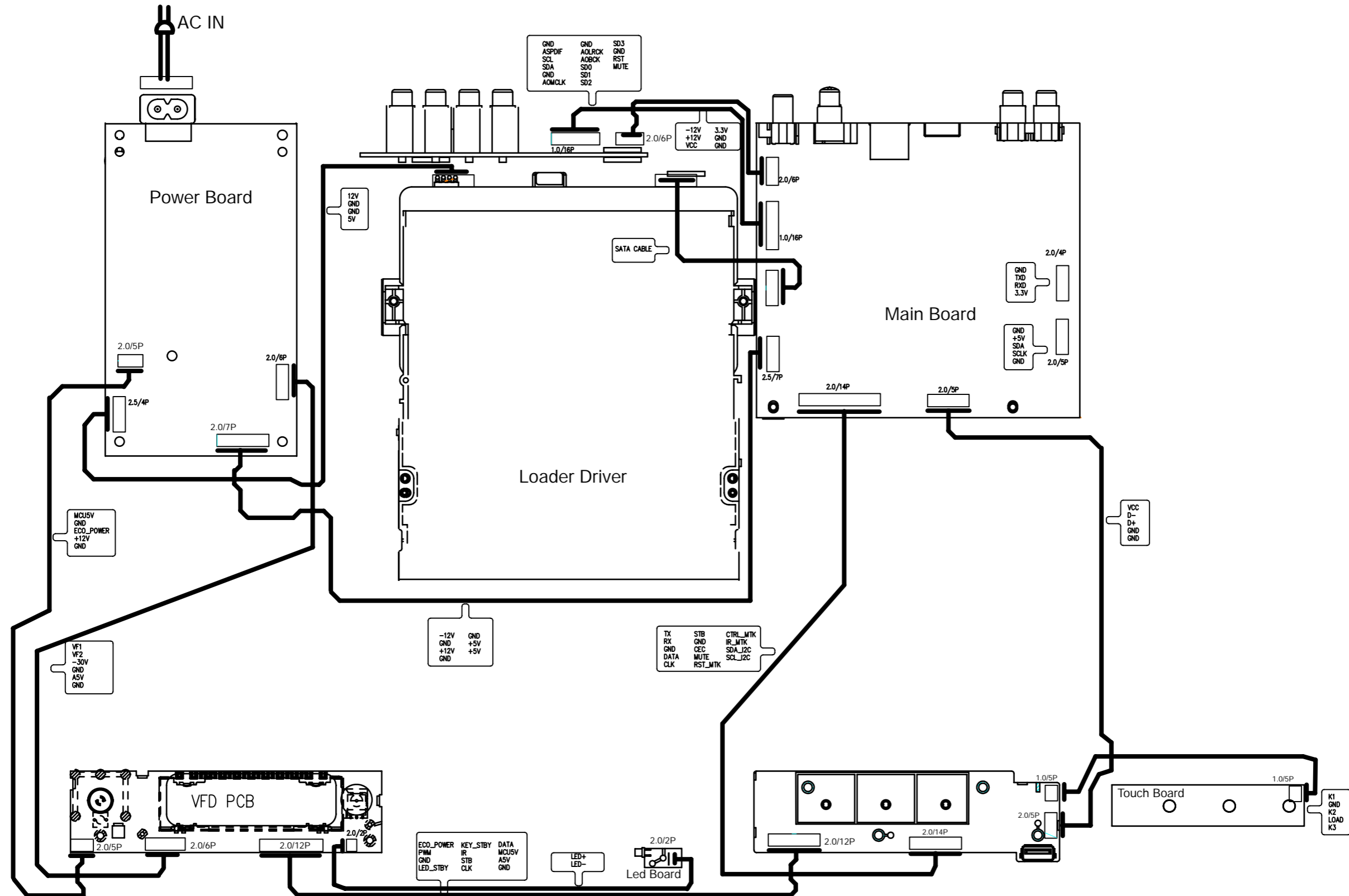
L. Loose 3pcs screws(2.6 x 8 BT) to remove the MCU Board



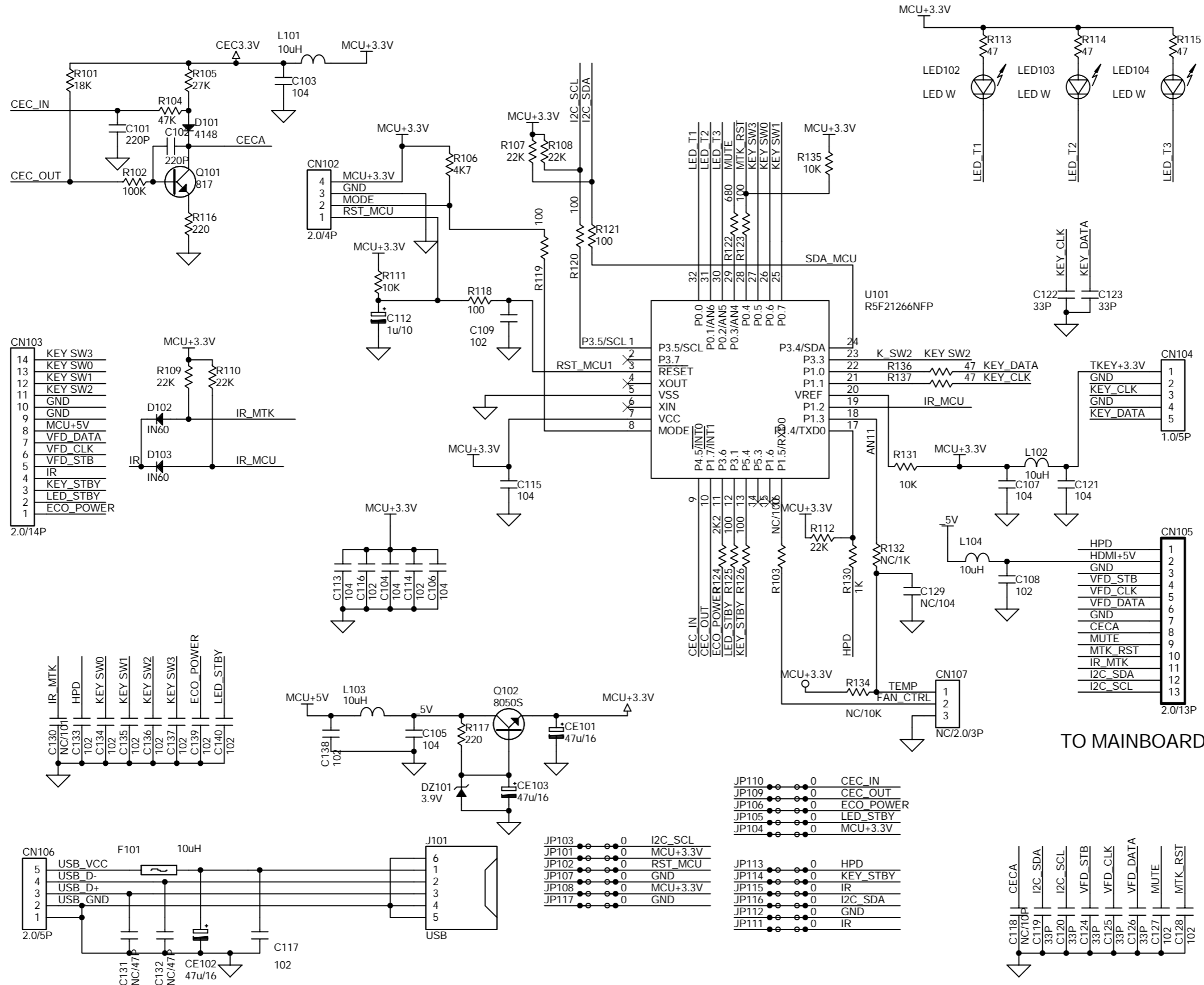
Block Diagram



BDP9500 bloc dia ram



MCU Board -- Layout Diagram



TO MAINBOARD

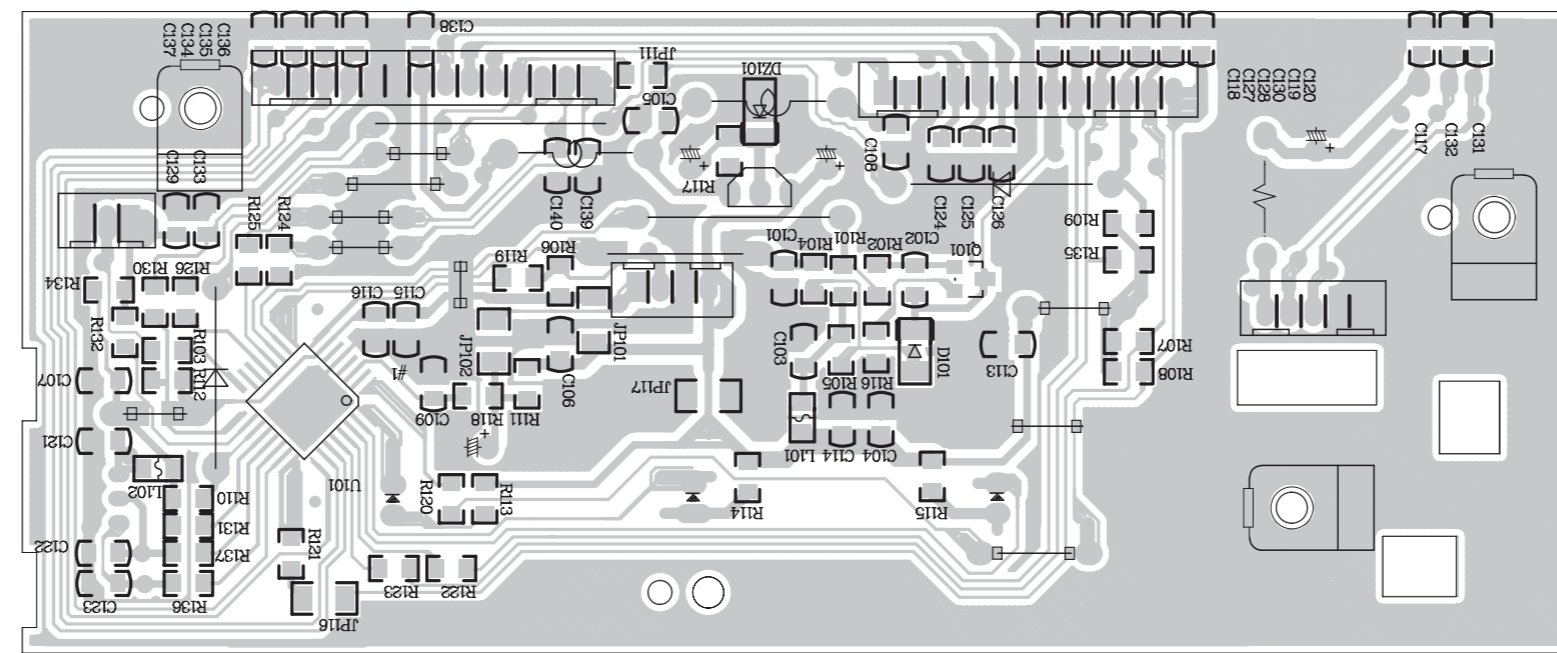
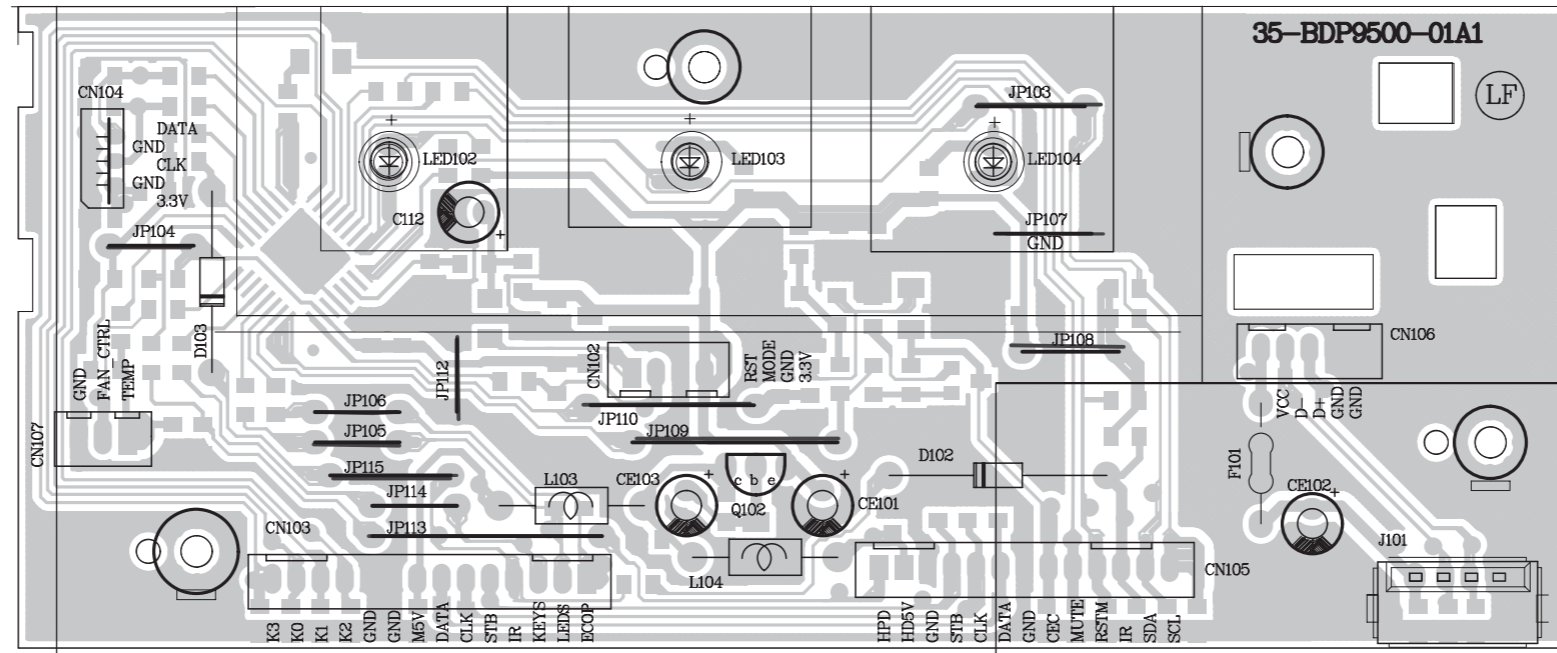
JP103	0	I2C_SCL
JP101	0	MCU+3.3V
JP102	0	RST_MCU
JP107	0	GND
JP108	0	MCU+3.3V
JP117	0	GND

JP110	0	CEC_IN
JP109	0	CEC_OUT
JP106	0	ECO_POWER
JP105	0	LED_STBY
JP104	0	MCU+3.3V

JP113	0	HPD
JP114	0	KEY_STBY
JP115	0	IR
JP116	0	I2C_SDA
JP112	0	GND
JP111	0	IR

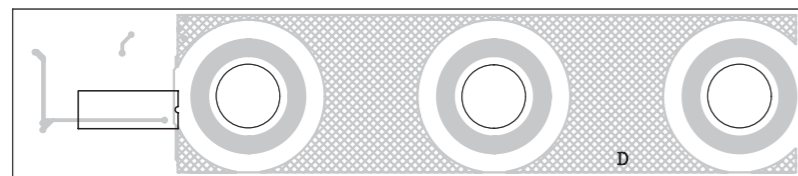
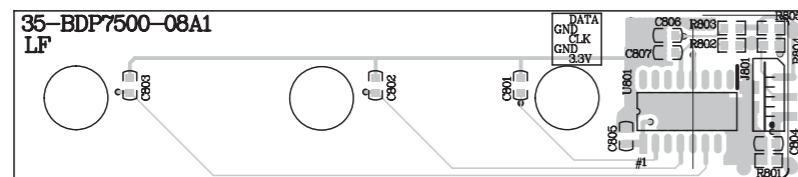
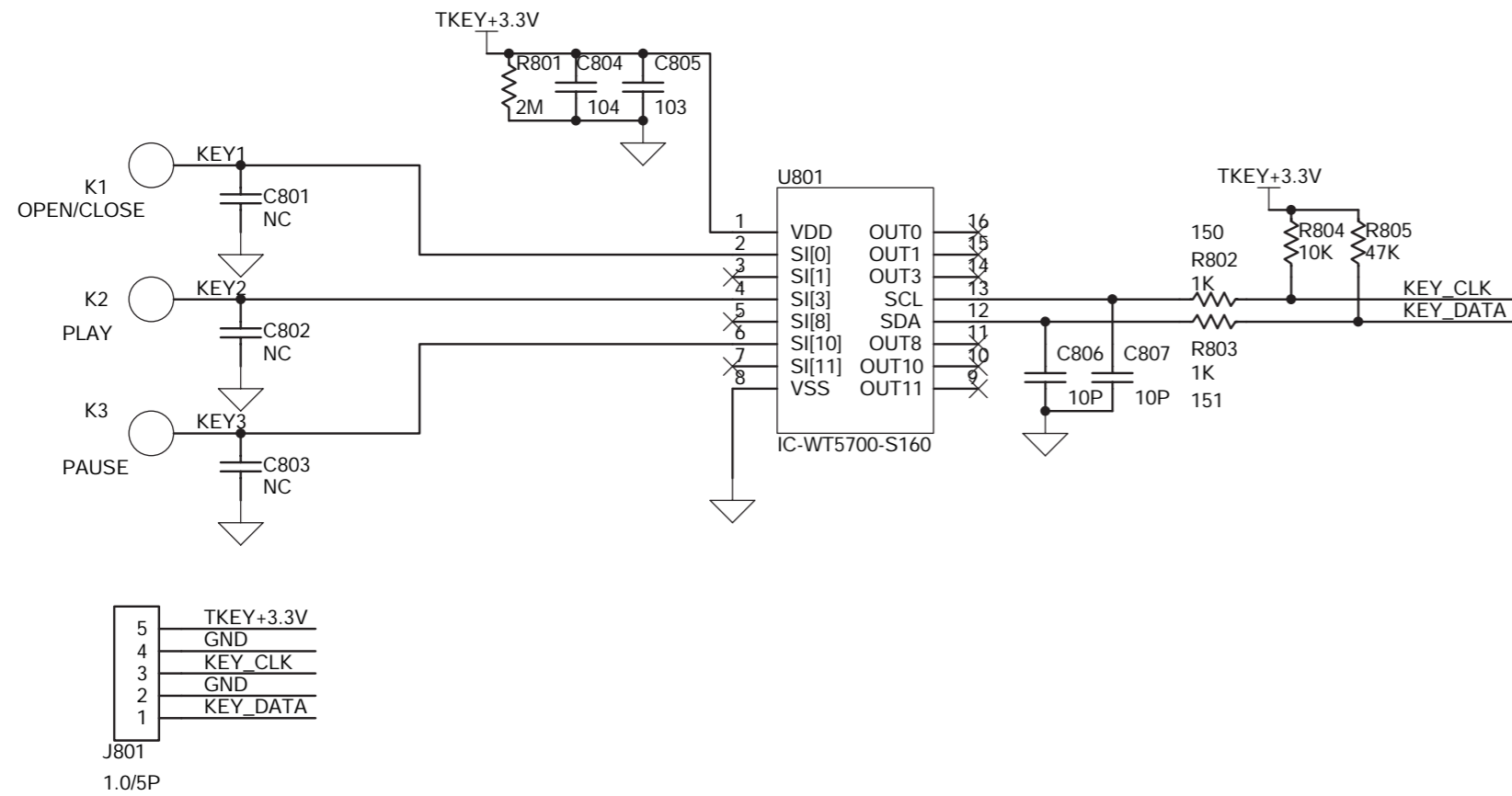
C118	NC/10P
C119	33P
C120	33P
C124	33P
C125	33P
C126	33P
C127	102
C128	102

MCU Board -- Layout Diagram

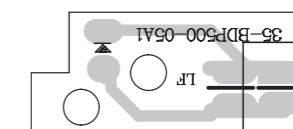
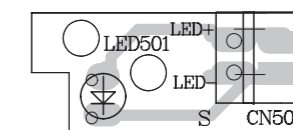
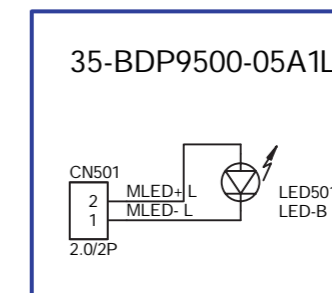
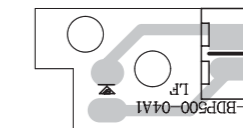
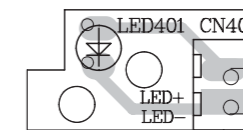
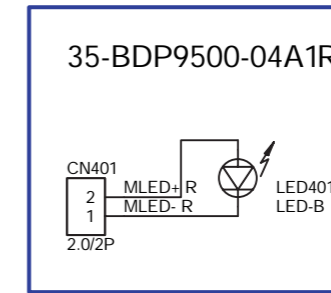


Touch & Led Board -- Circuit & Layout Diagram

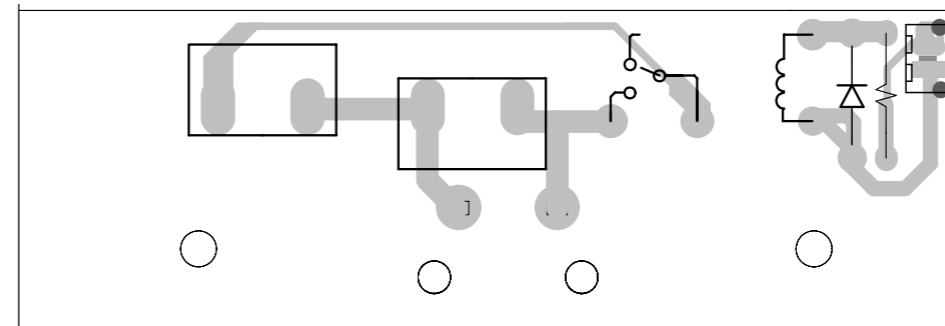
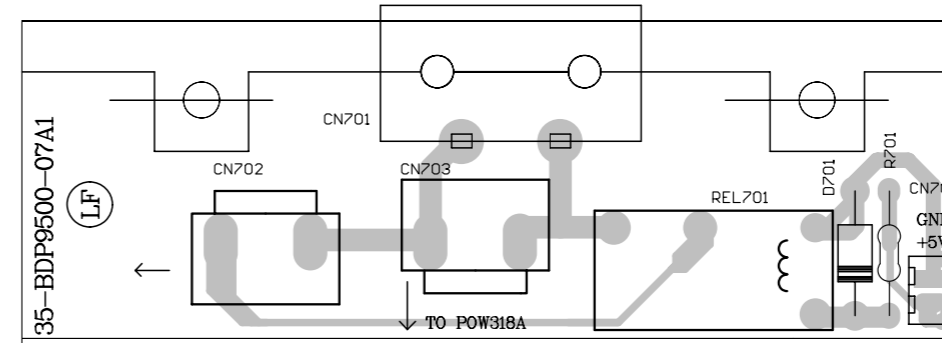
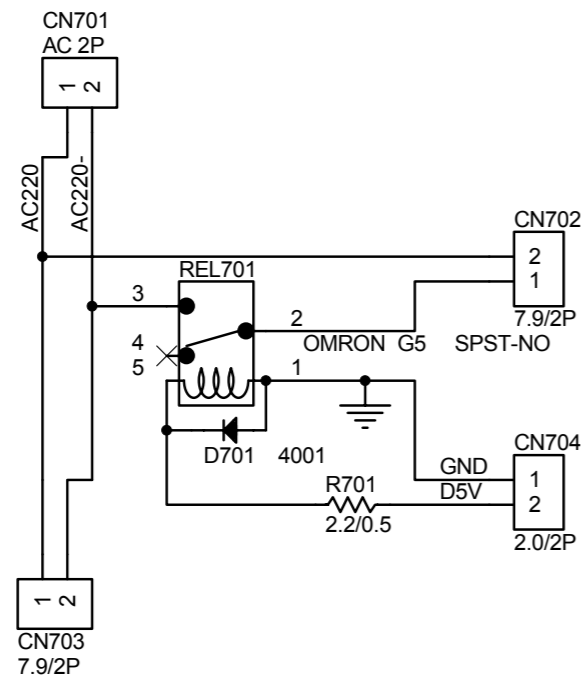
Touch Board



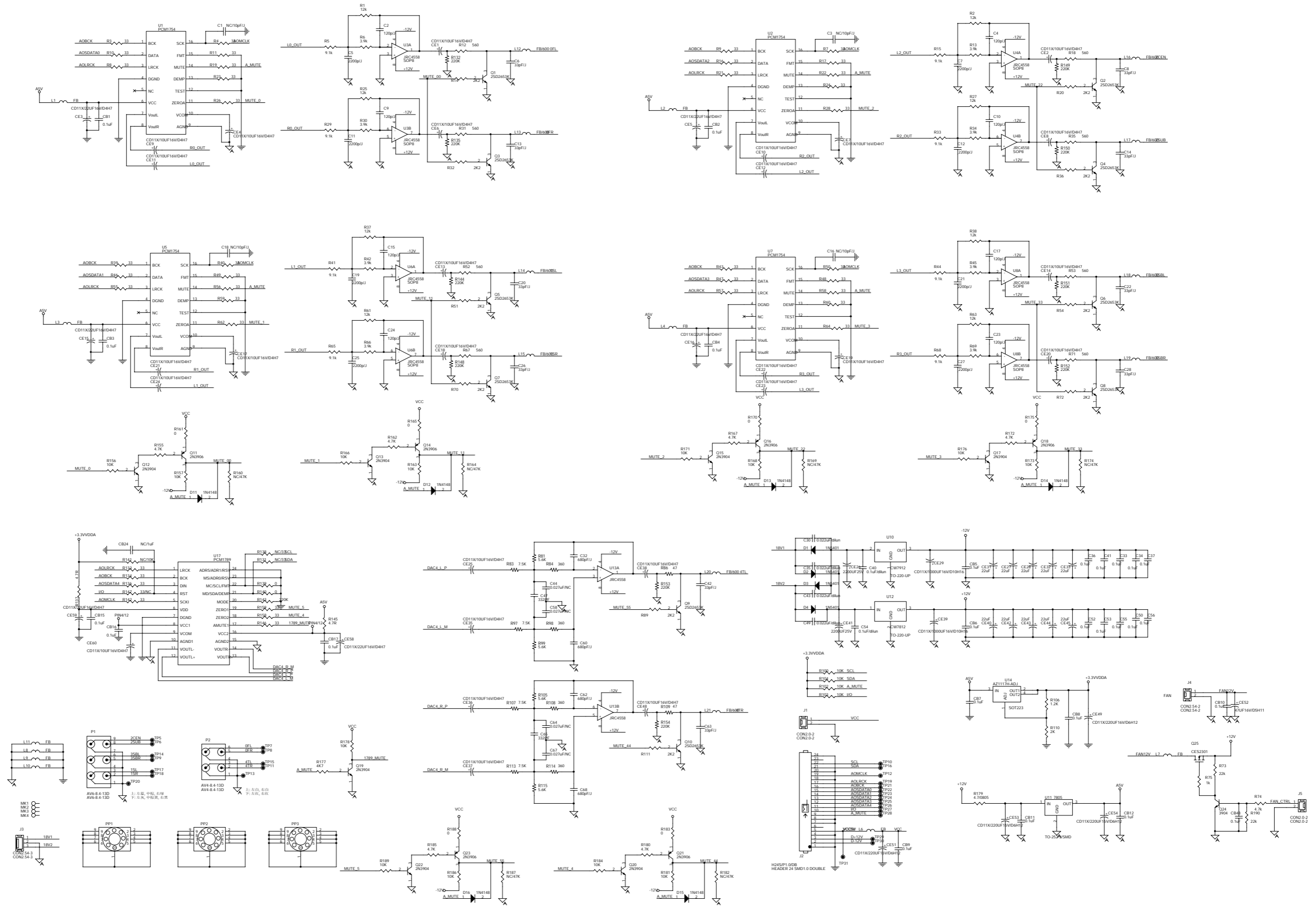
Led Board



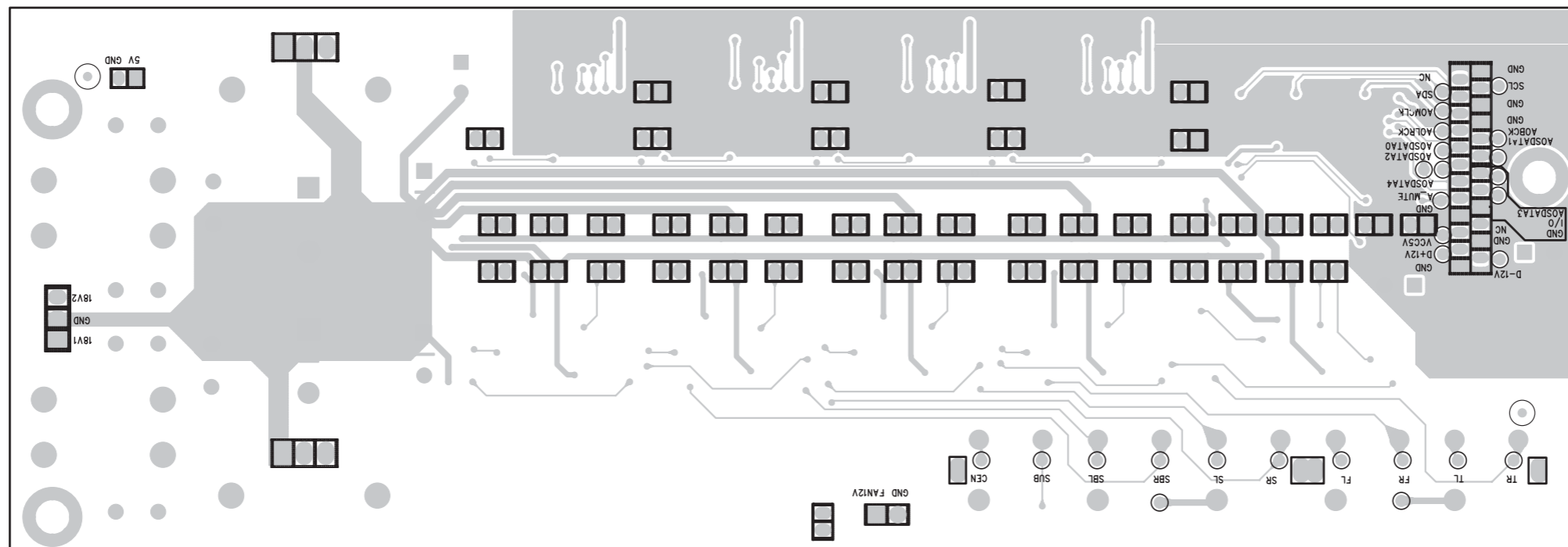
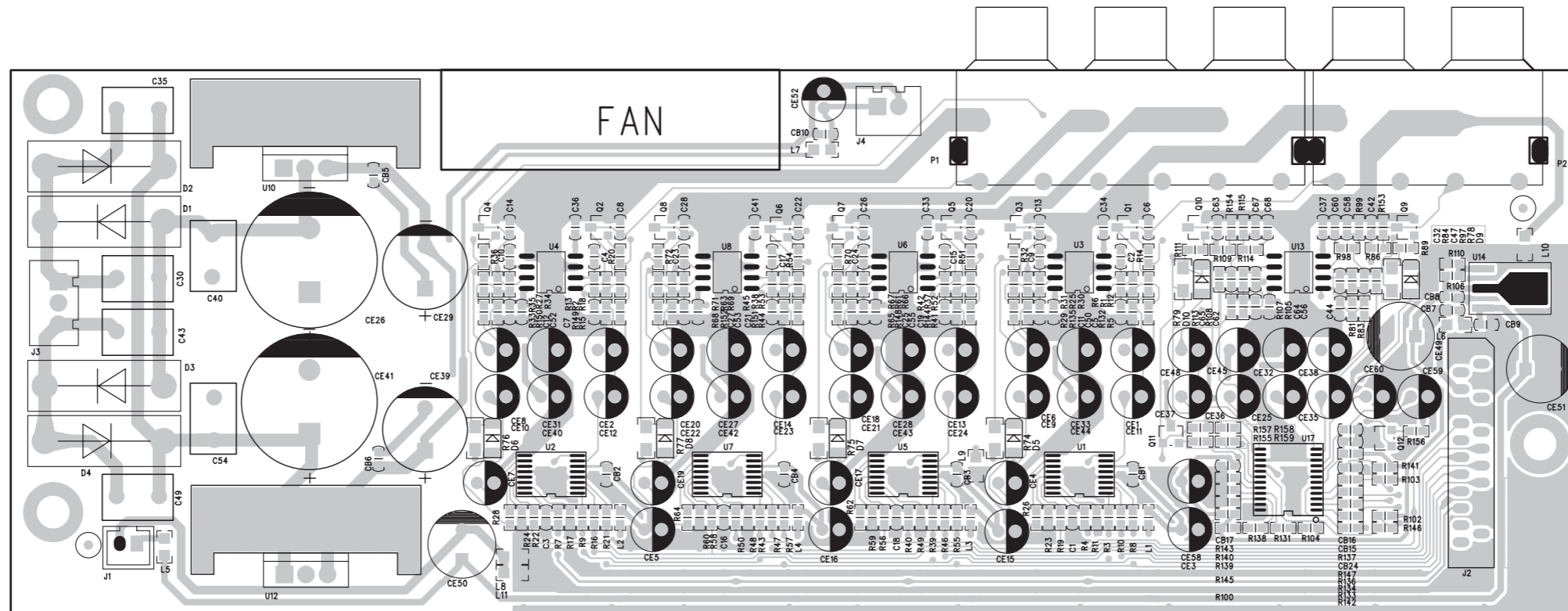
Power Transfer Board -- Circuit & Layout Diagram



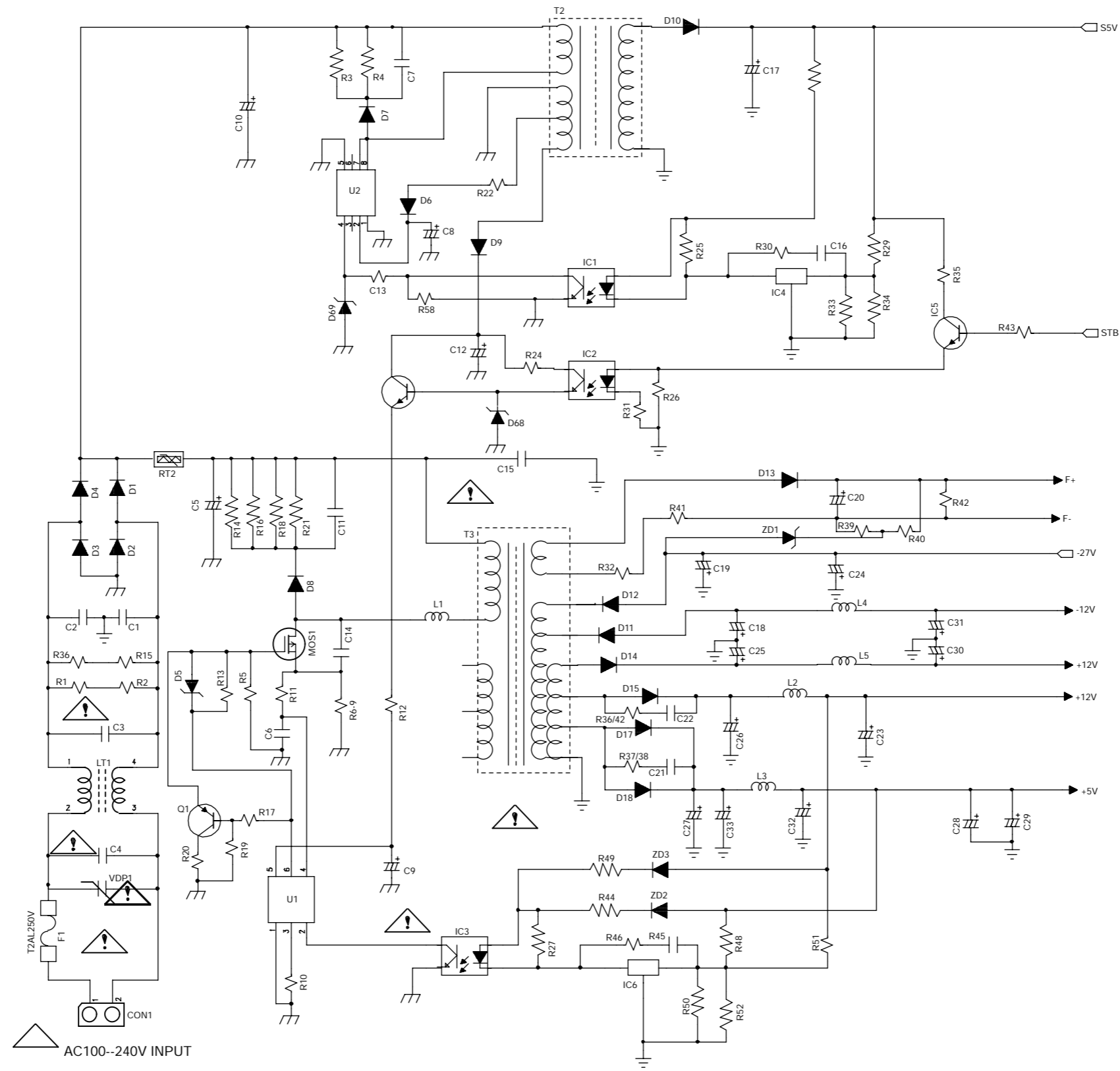
Output Board(Audio) -- Circuit Diagram



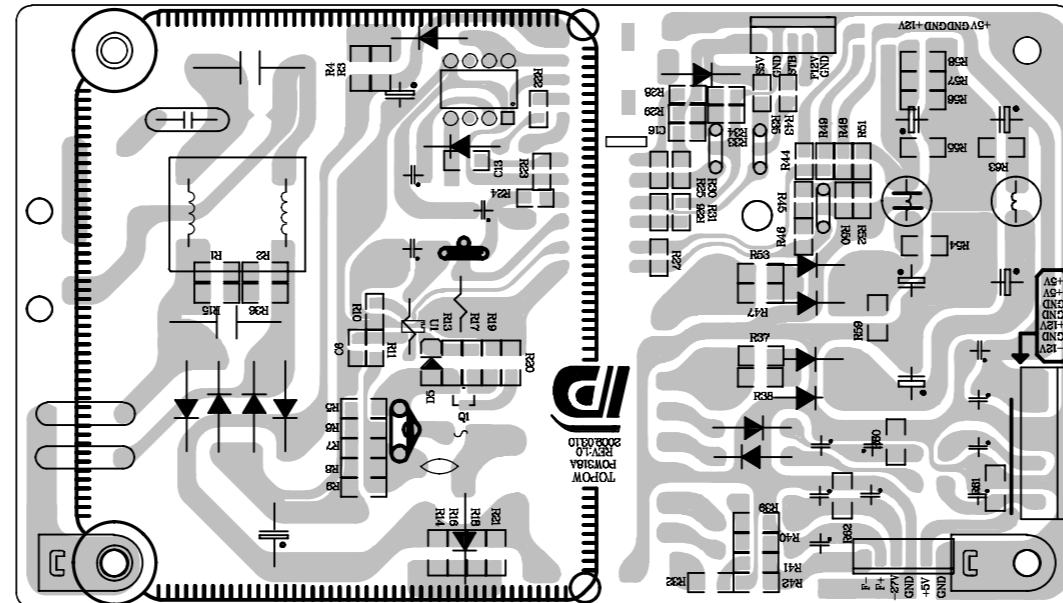
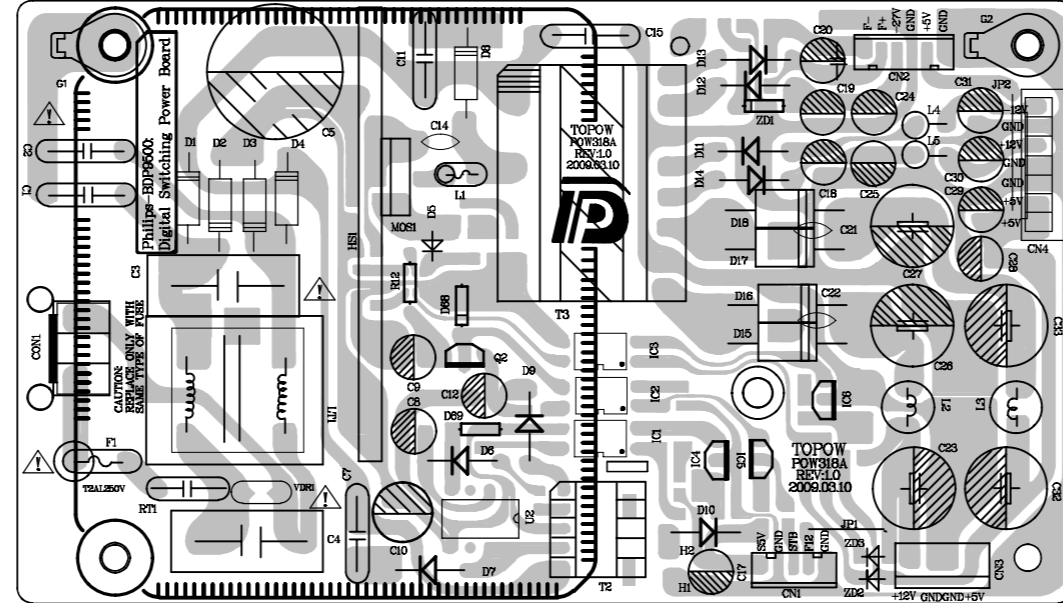
Output Board(Audio) -- Layout Diagram



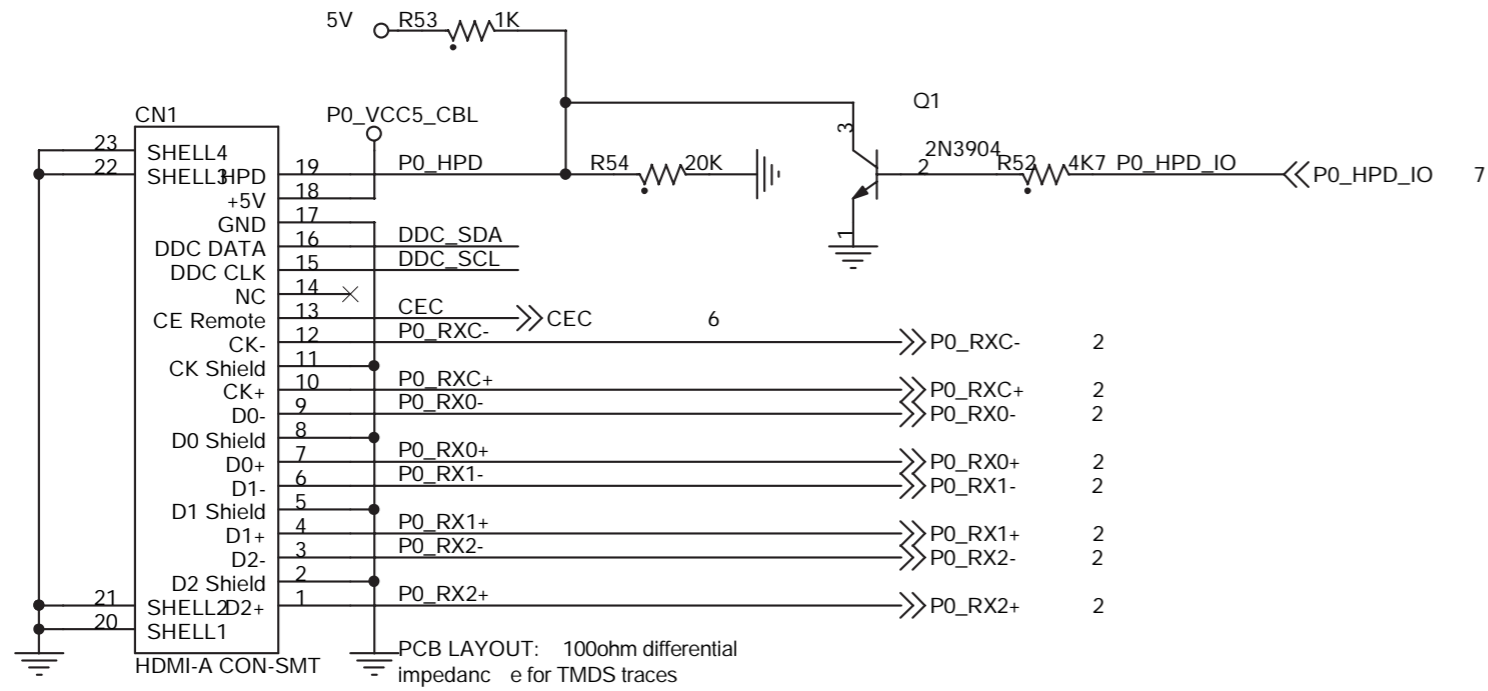
Power Board -- Circuit Diagram



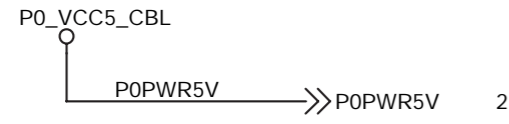
Power Board -- Layout Diagram



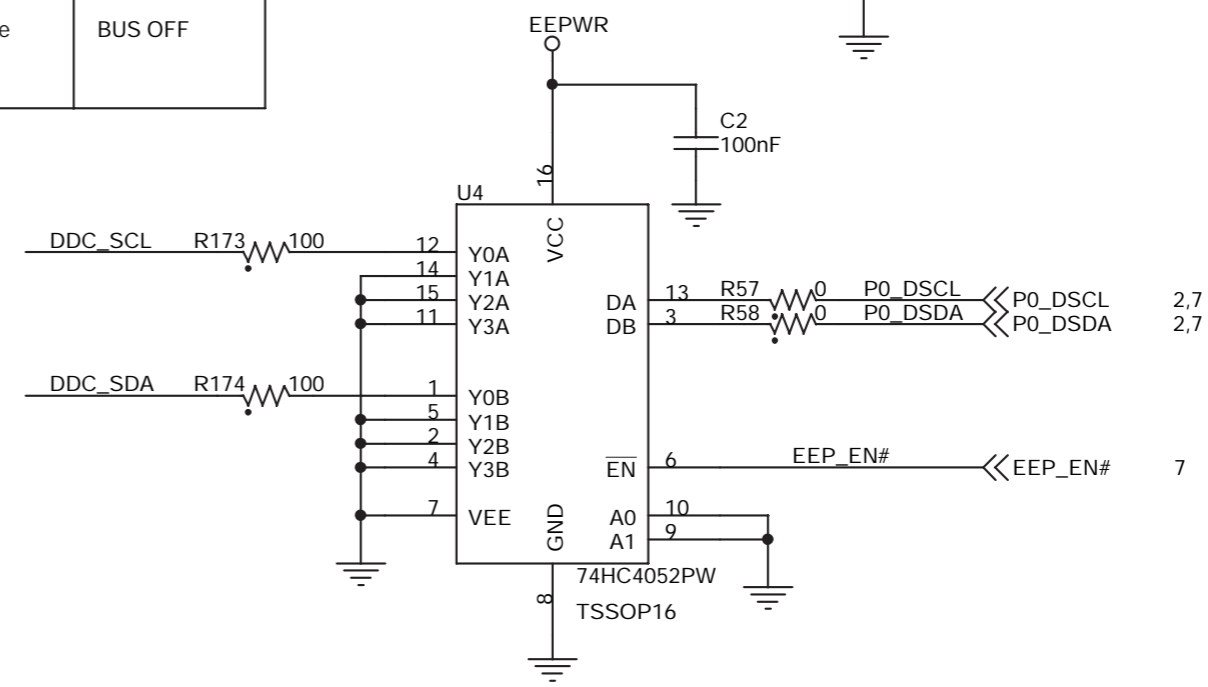
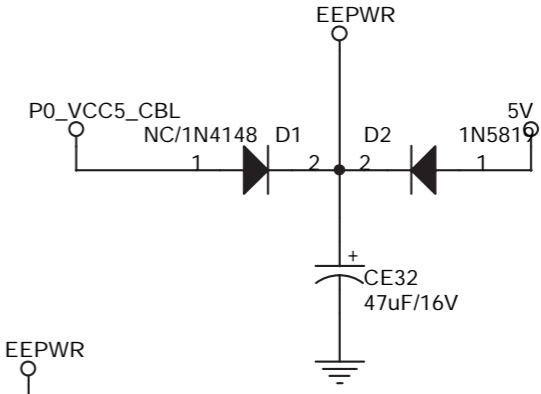
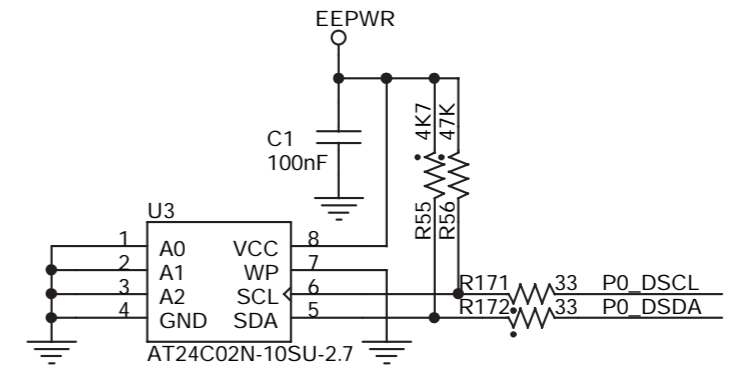
HDMI Board(Scalar) -- Circuit Diagram



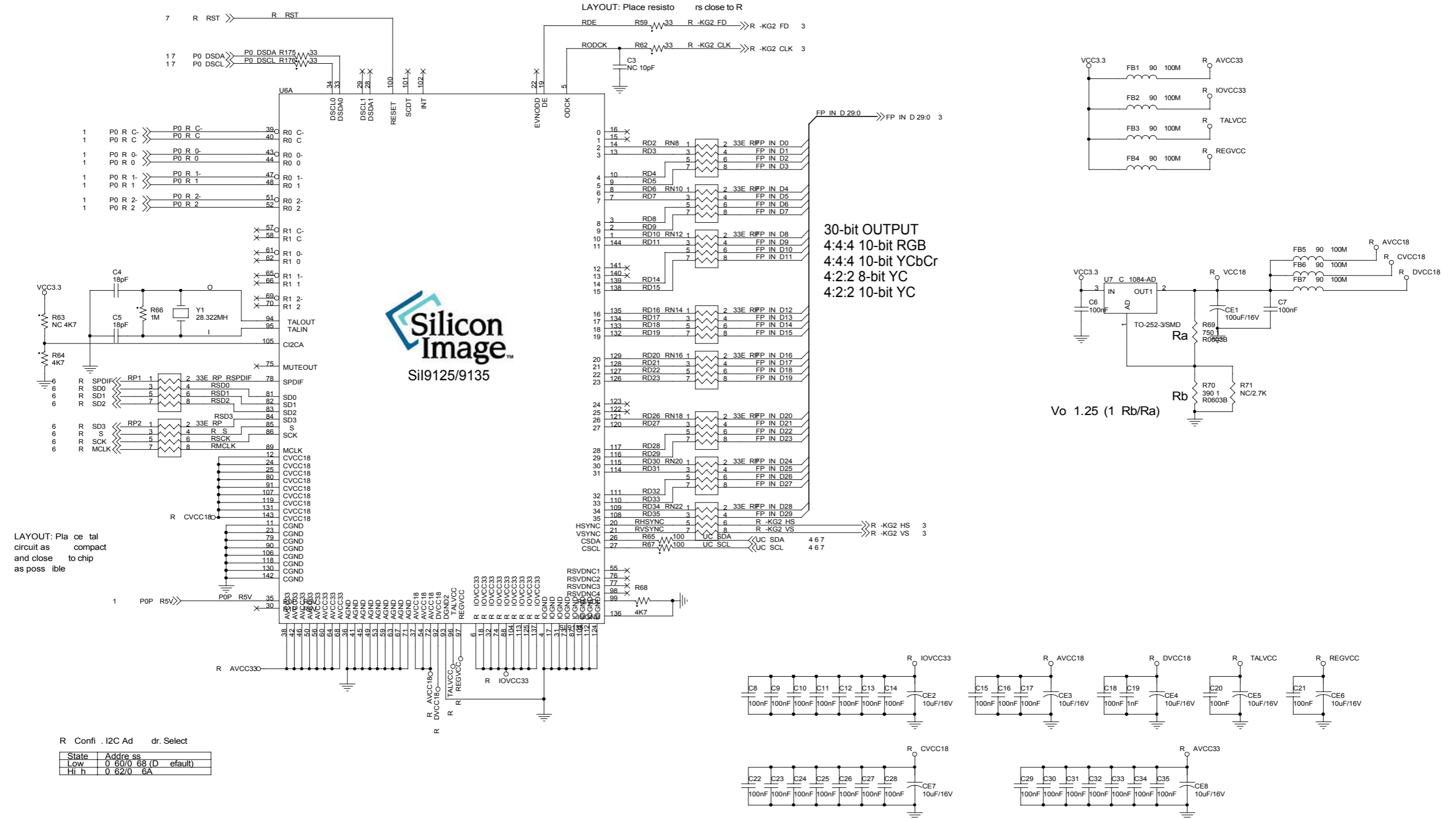
PCB LAYOUT: 100ohm differential impedance for TMDS traces



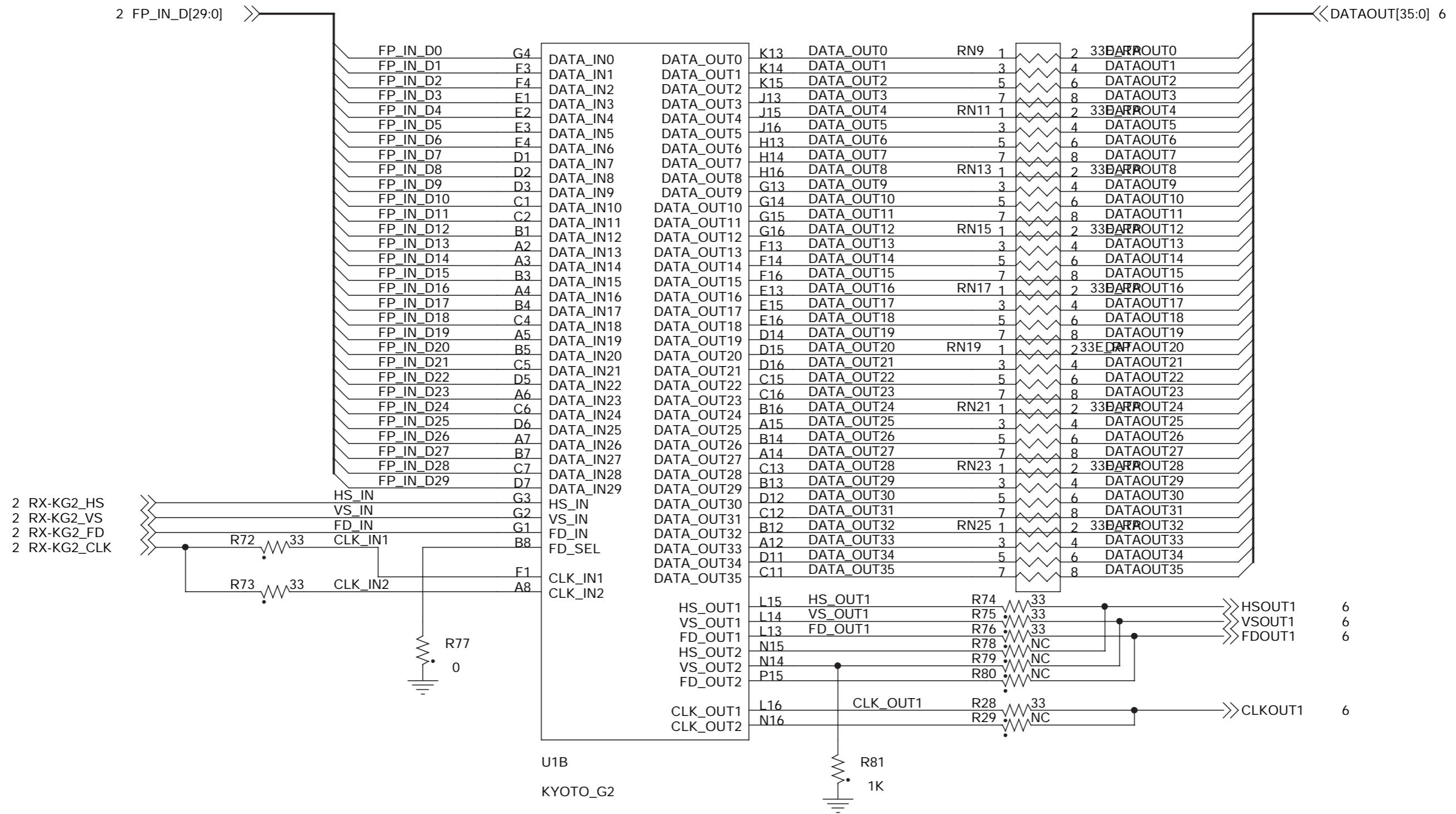
EEP_EN#	0	1
	MCU Write EDID0	BUS OFF



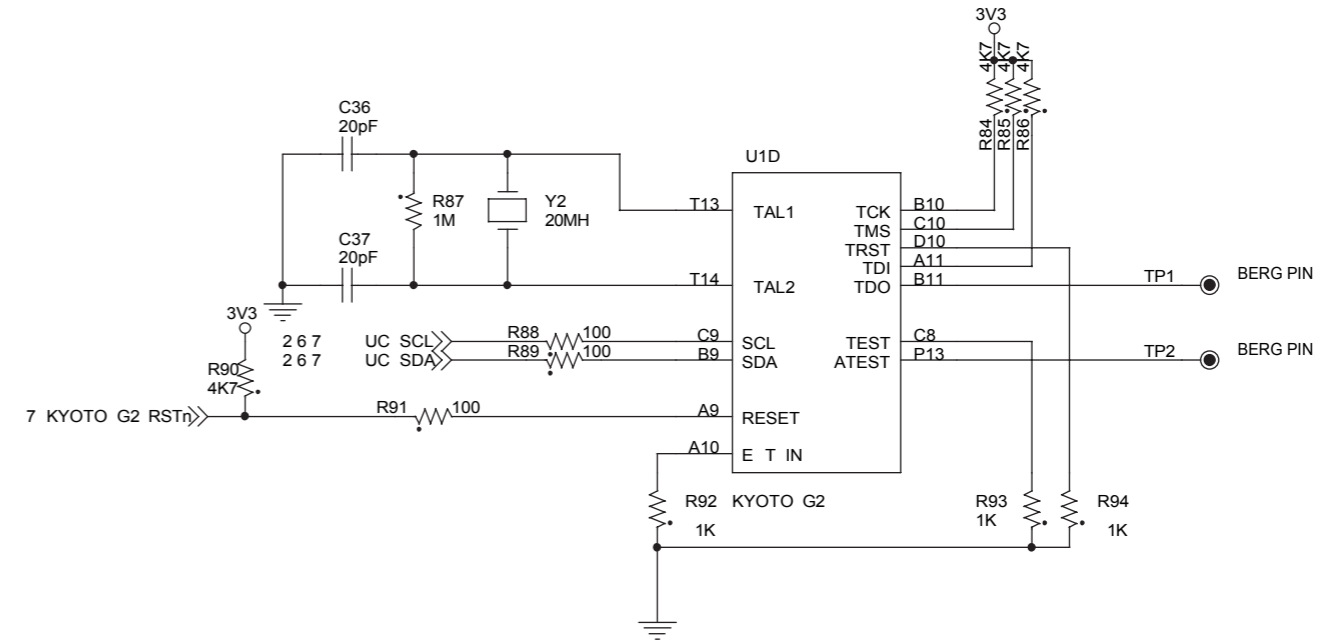
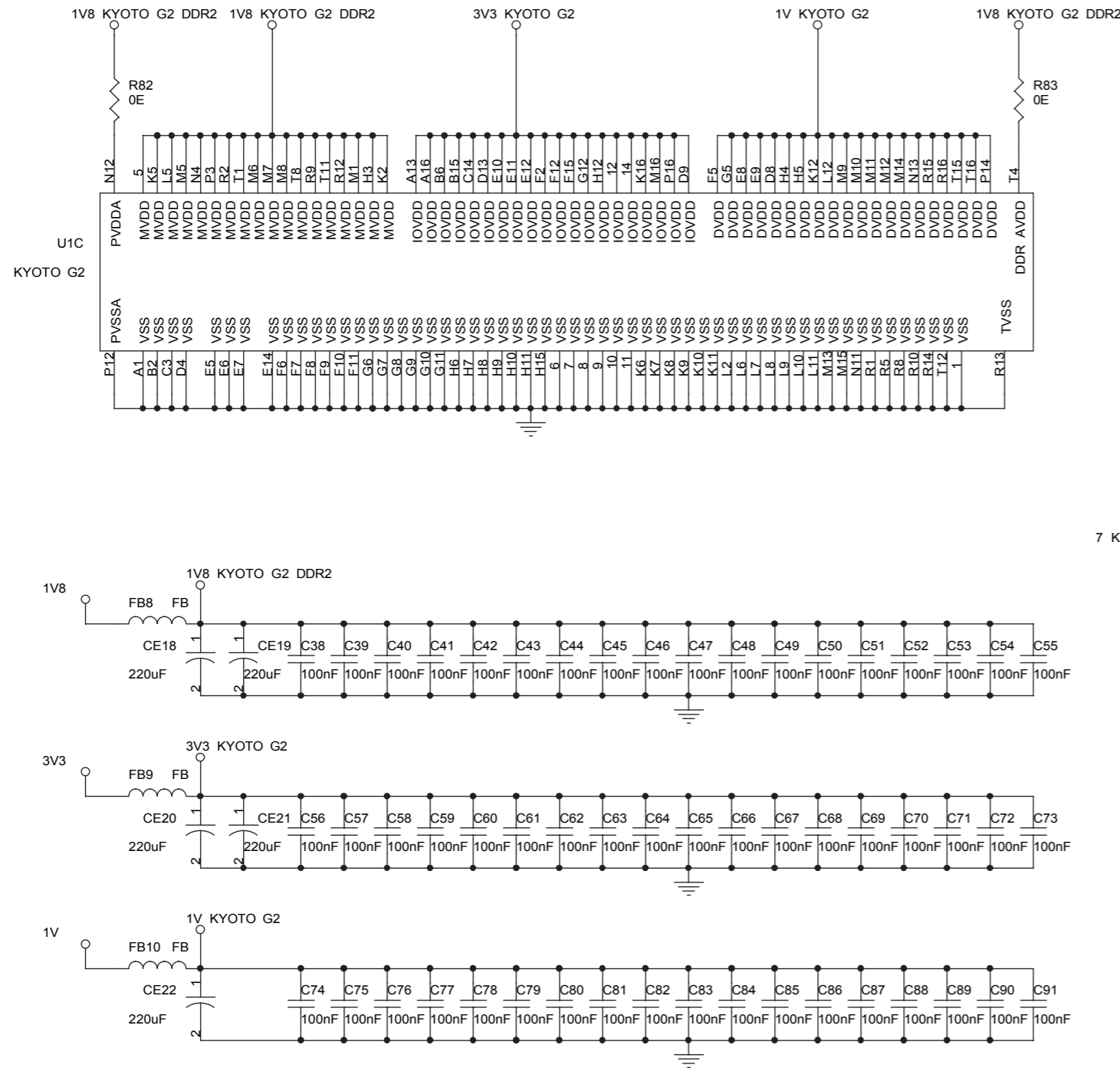
HDMI Board(Scalar) -- Circuit Diagram



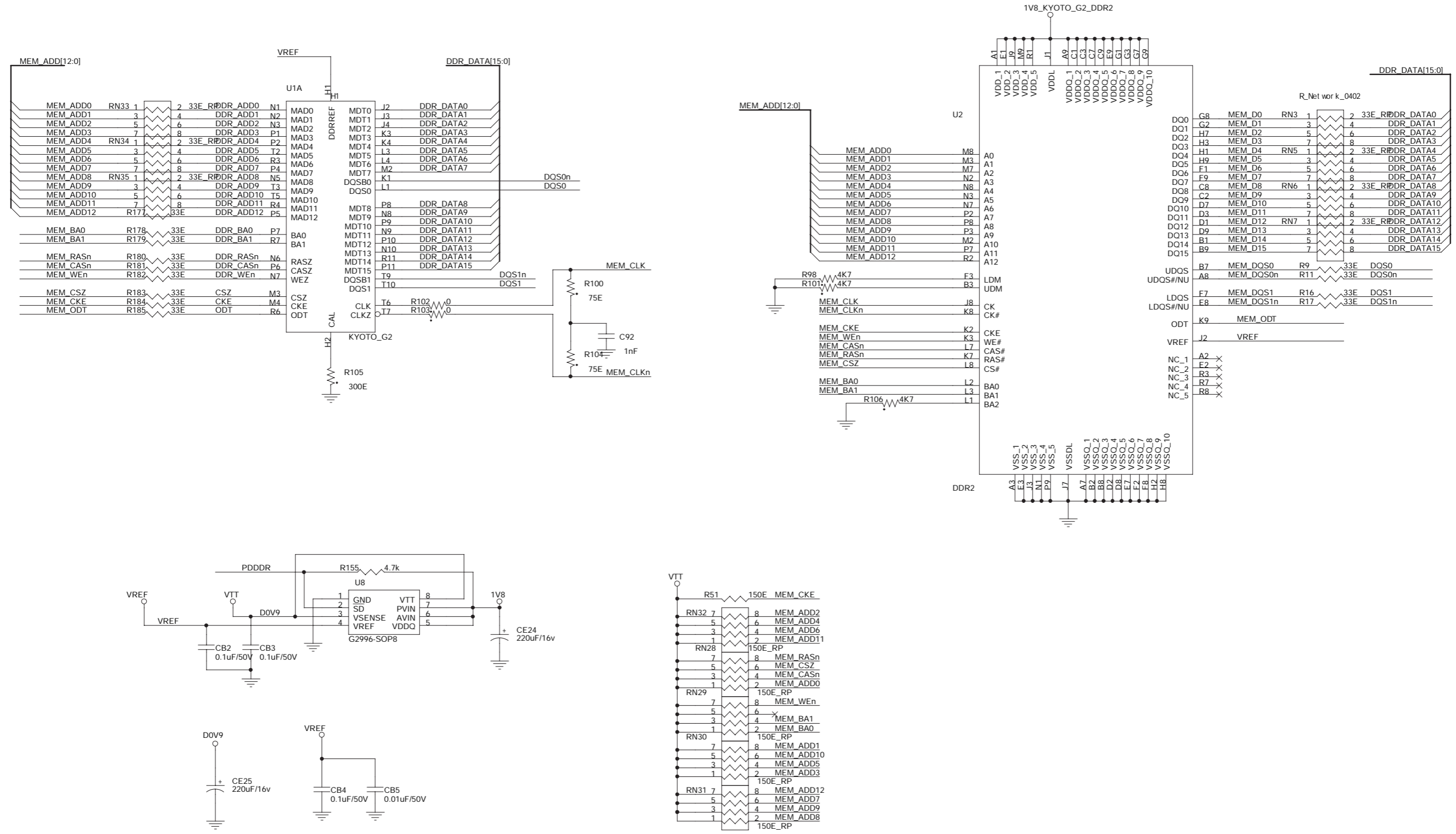
HDMI Board(Scalar) -- Circuit Diagram



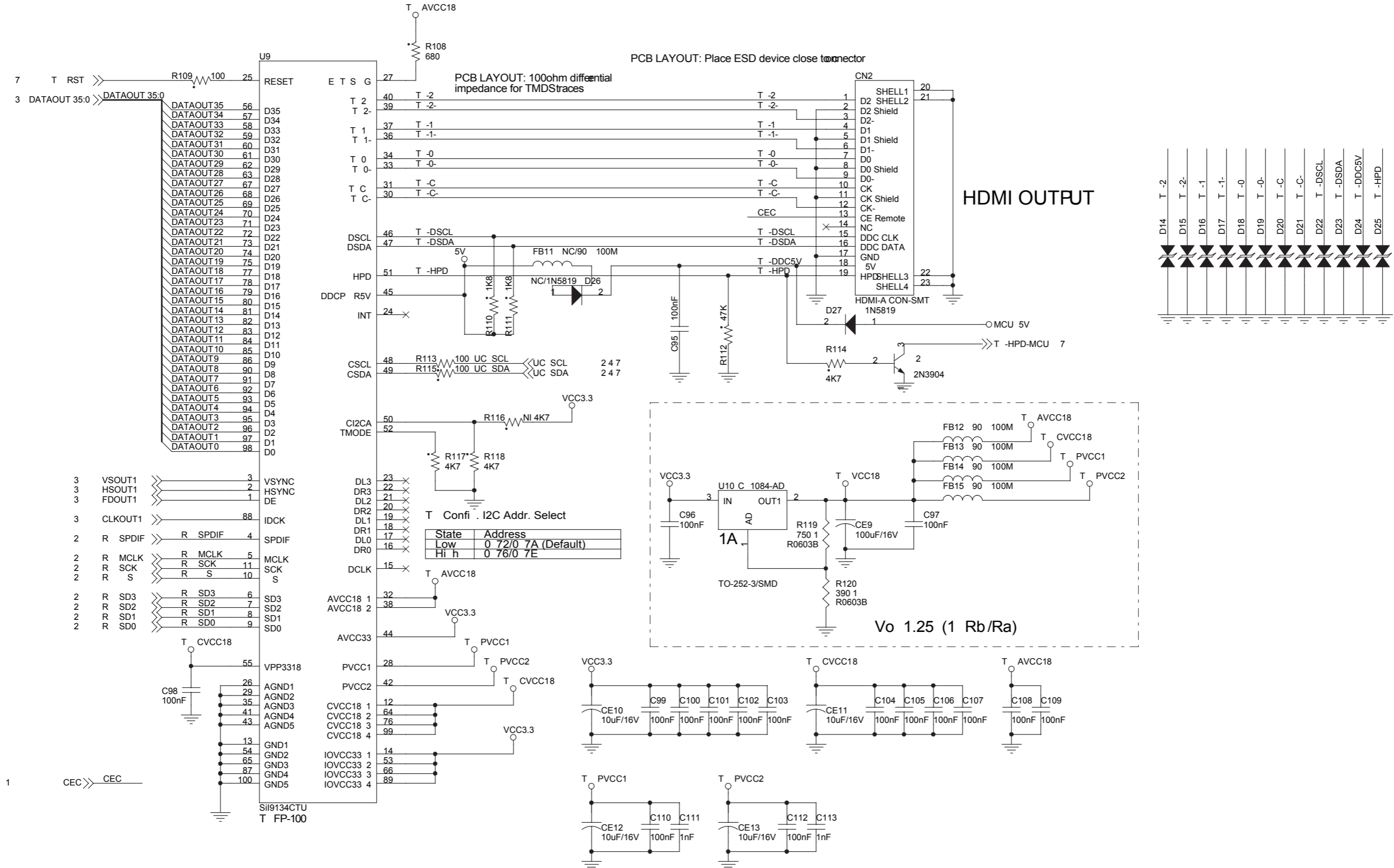
HDMI Board(Scalar) -- Circuit Diagram



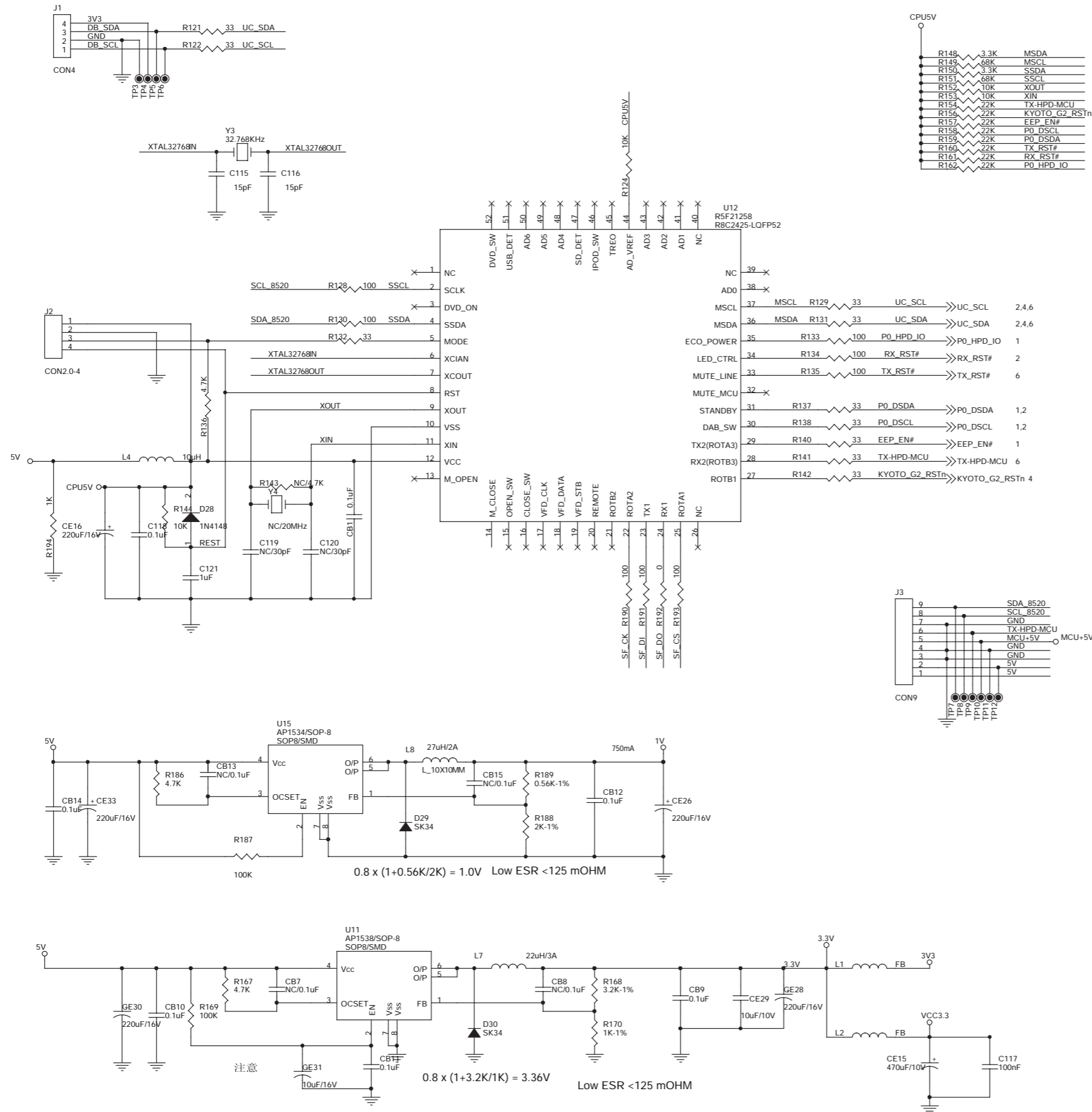
HDMI Board(Scalar) -- Circuit Diagram



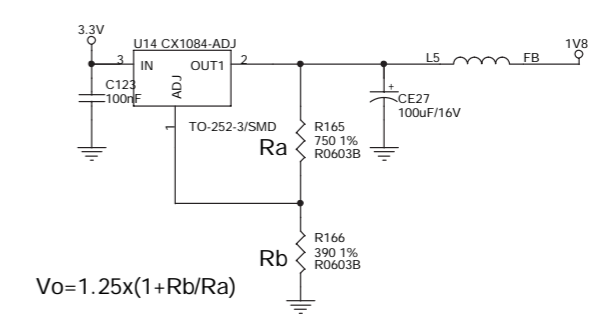
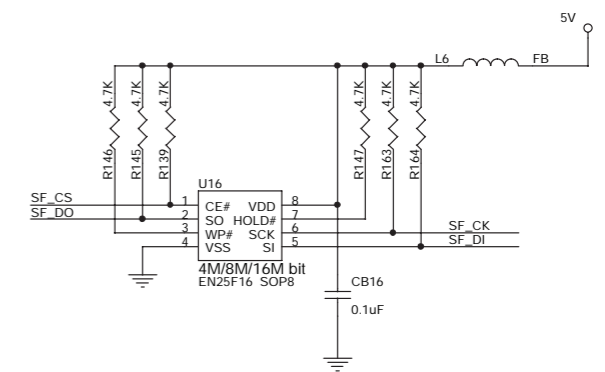
HDMI Board(Scalar) -- Circuit Diagram



HDMI Board(Scalar) -- Circuit Diagram



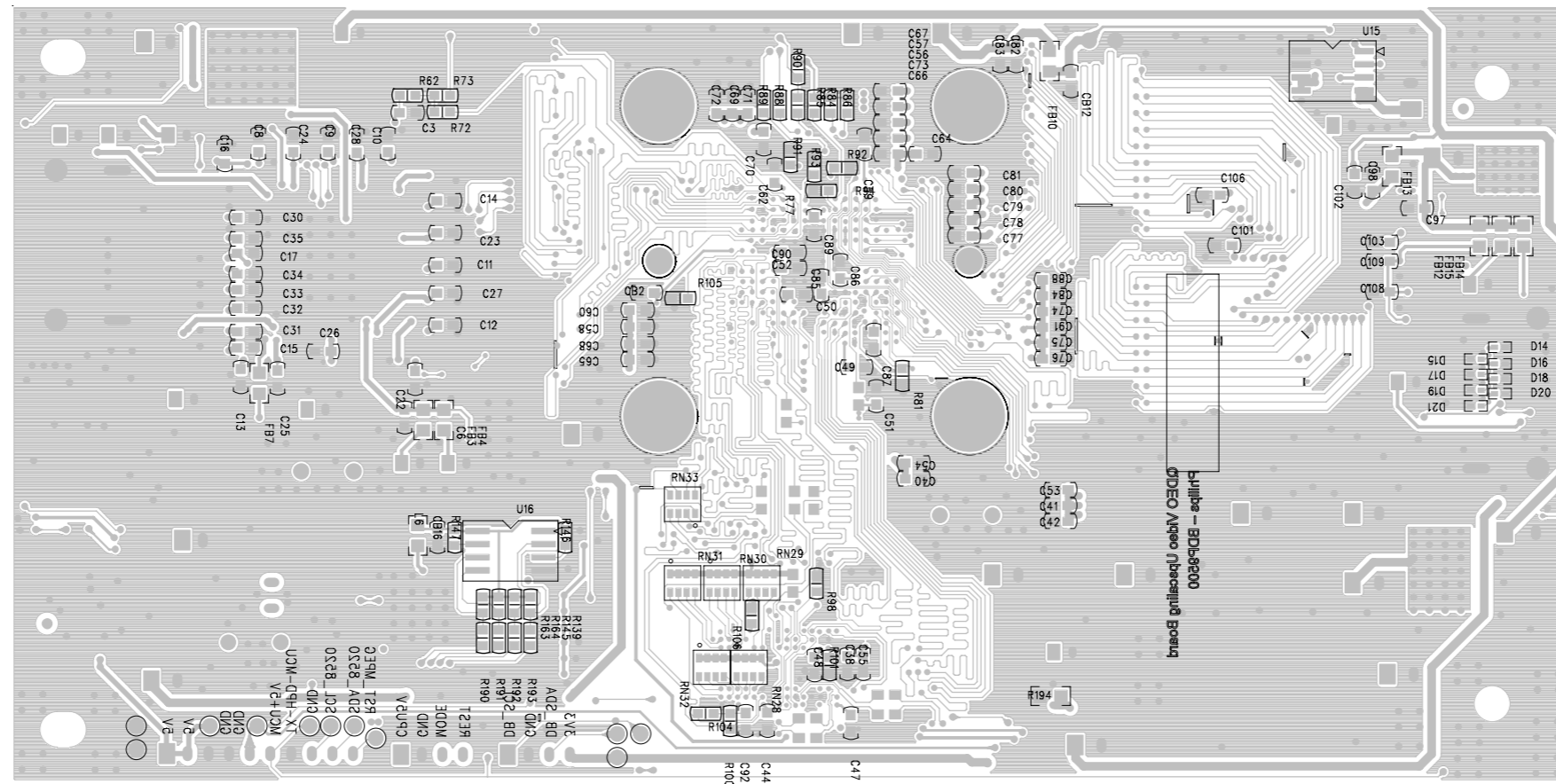
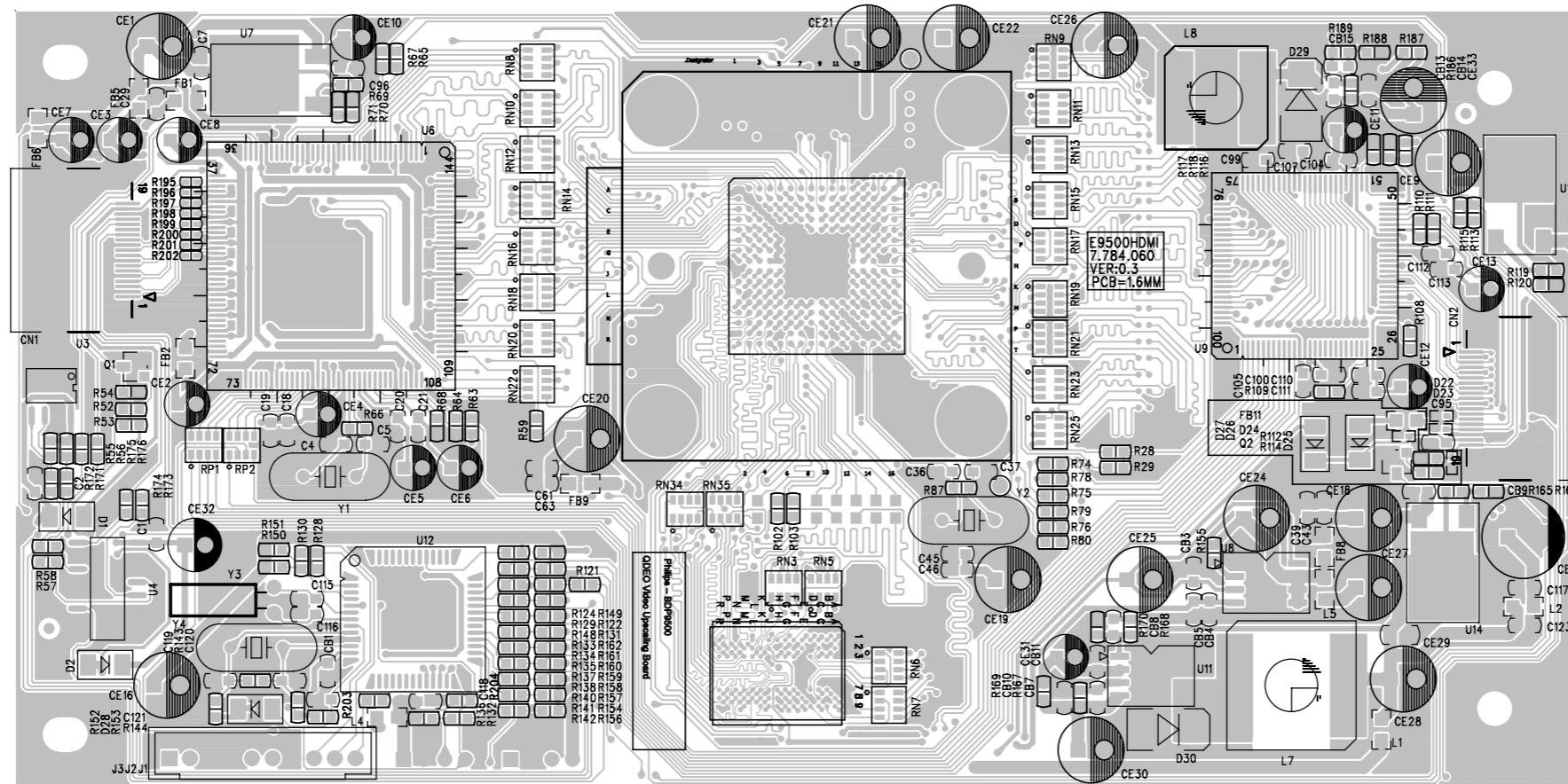
R148	3.3K	MSDA
R149	68K	MSCL
R150	3.3K	SSDA
R151	68K	SCL
R152	10K	XOUT
R153	10K	XIN
R154	22K	TX-HPD-MCU
R156	22K	KYOTO_G2_RSTn
R157	22K	EEP_EN#
R158	22K	P0_DSDL
R159	22K	P0_DSDA
R160	22K	TX_RST#
R161	22K	RX_RST#
R162	22K	P0_HPDI_O



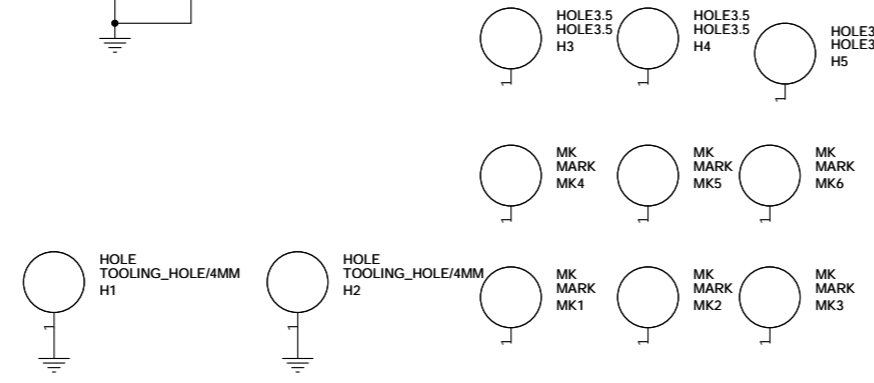
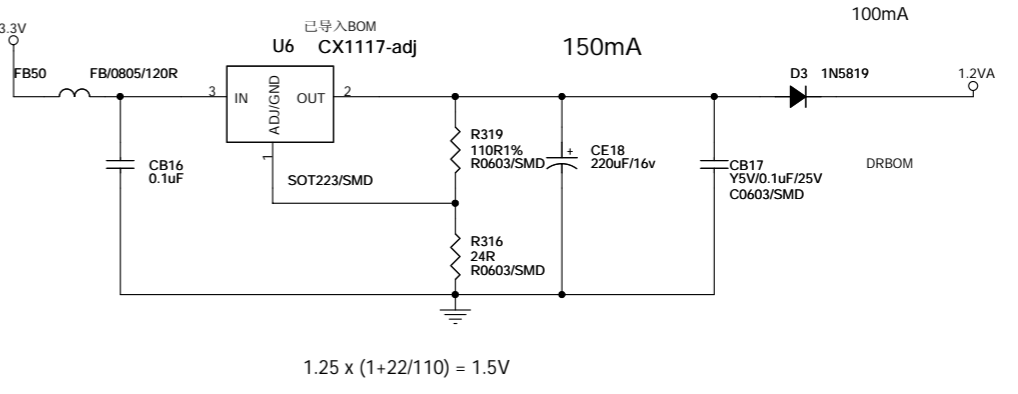
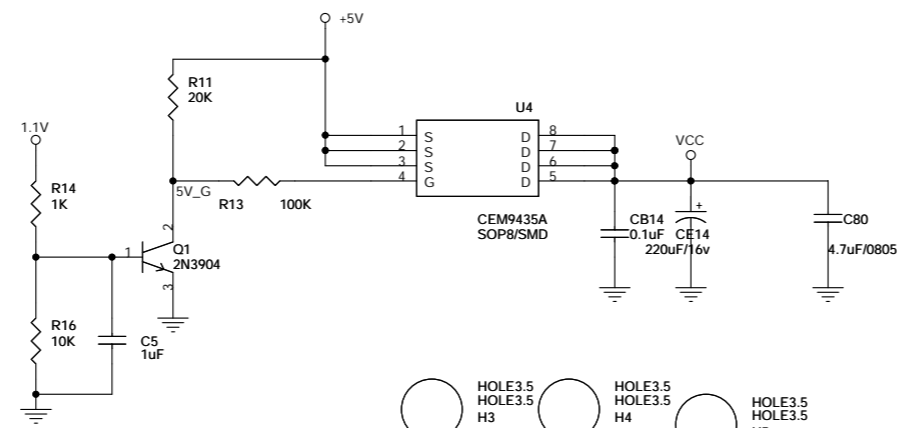
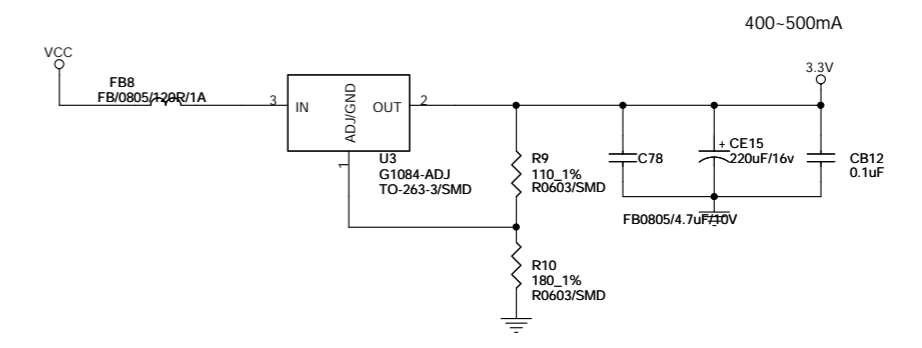
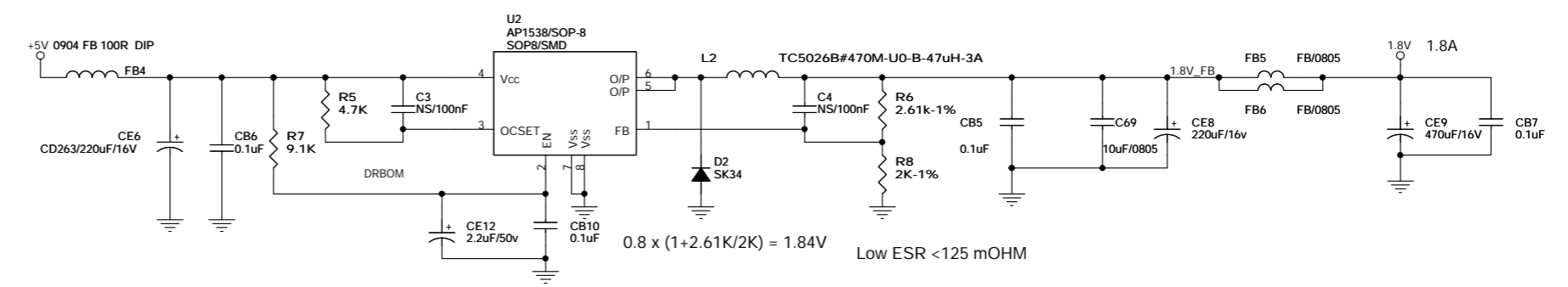
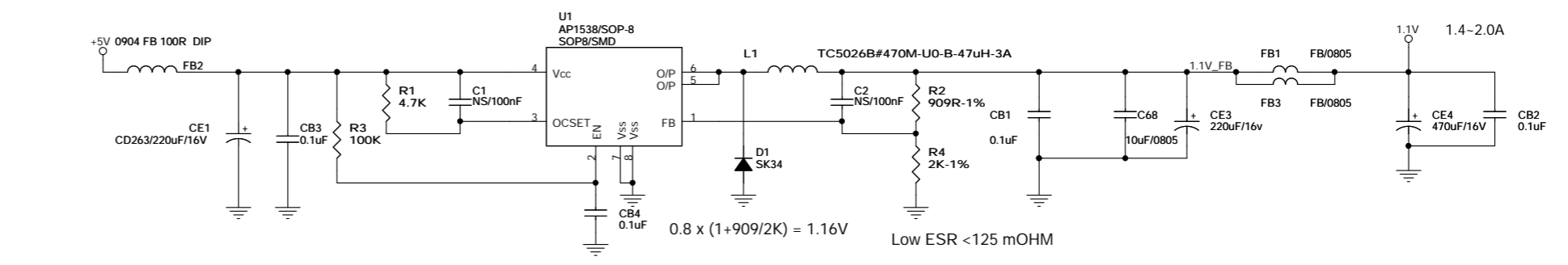
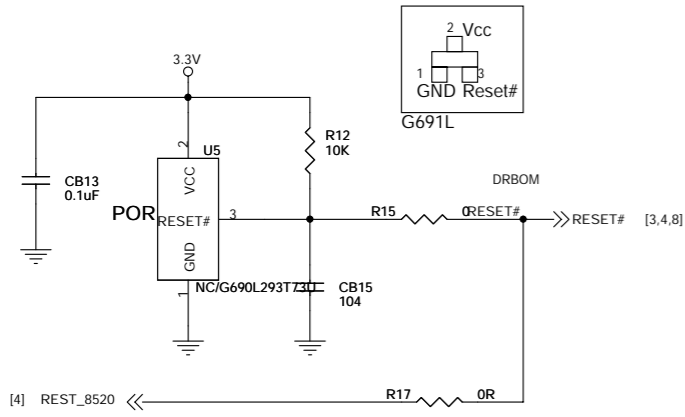
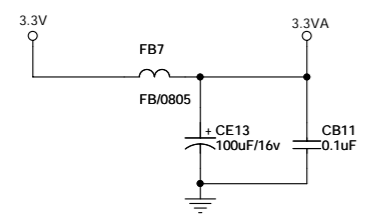
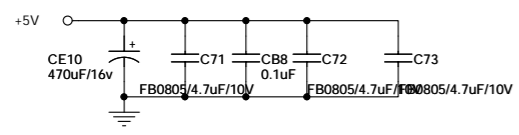
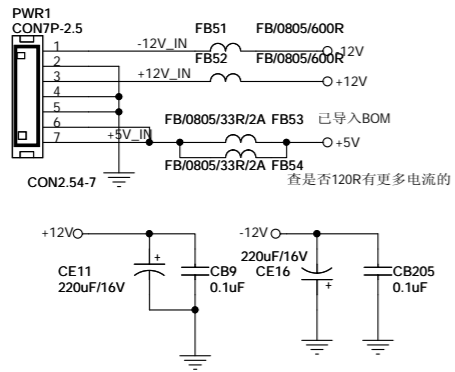
$$V_o = 1.25 \times (1 + R_b/R_a)$$

注意

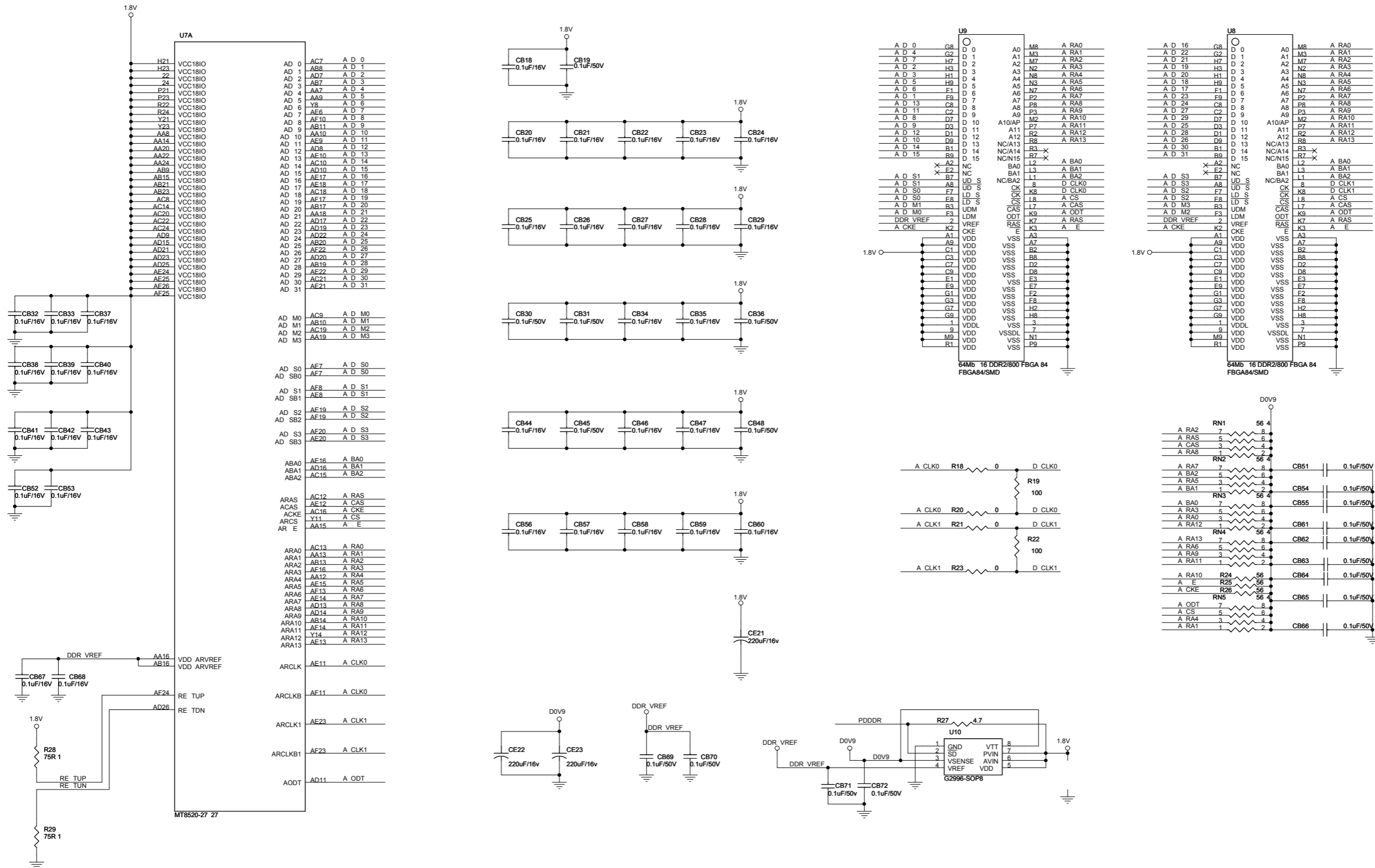
HDMI Board(Scalar) -- Layout Diagram



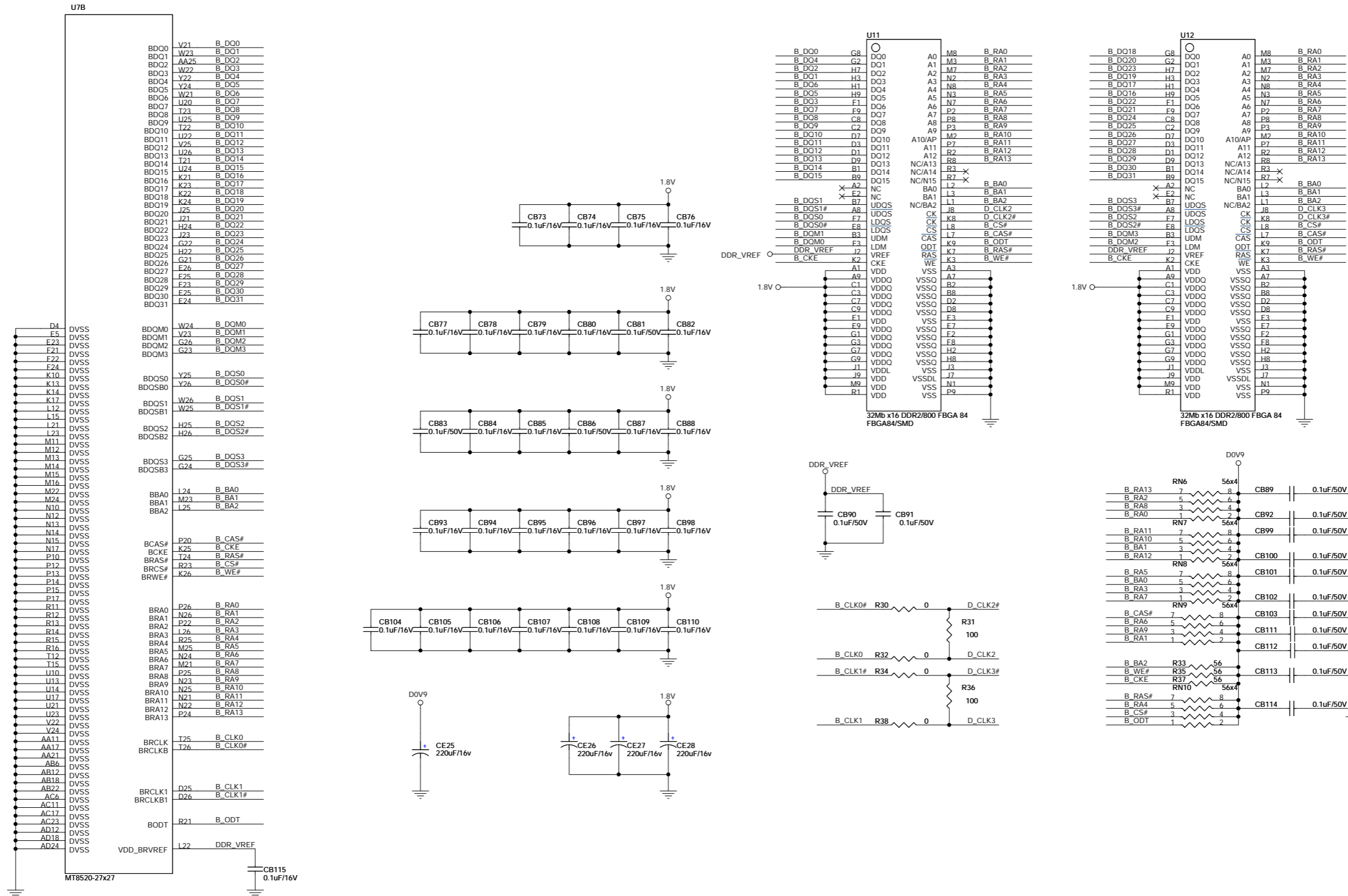
Decoder Board -- Circuit Diagram



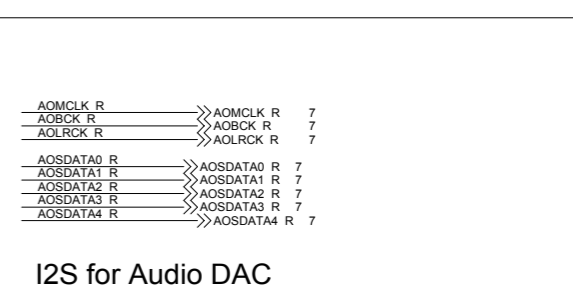
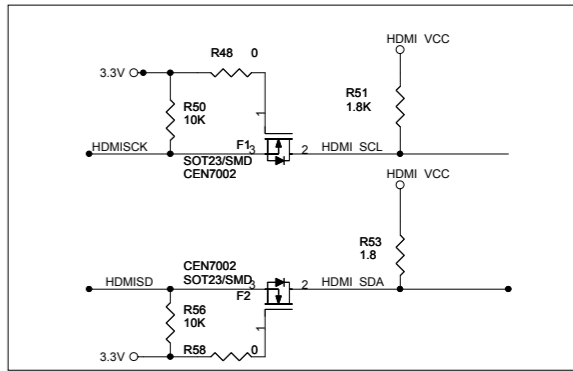
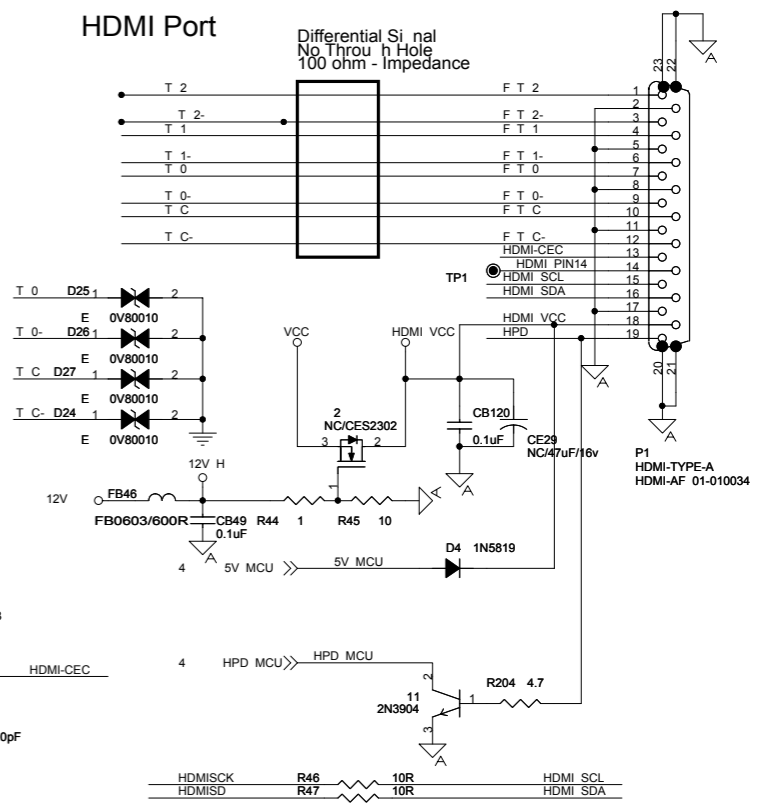
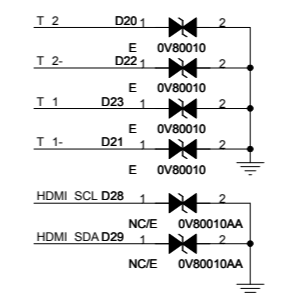
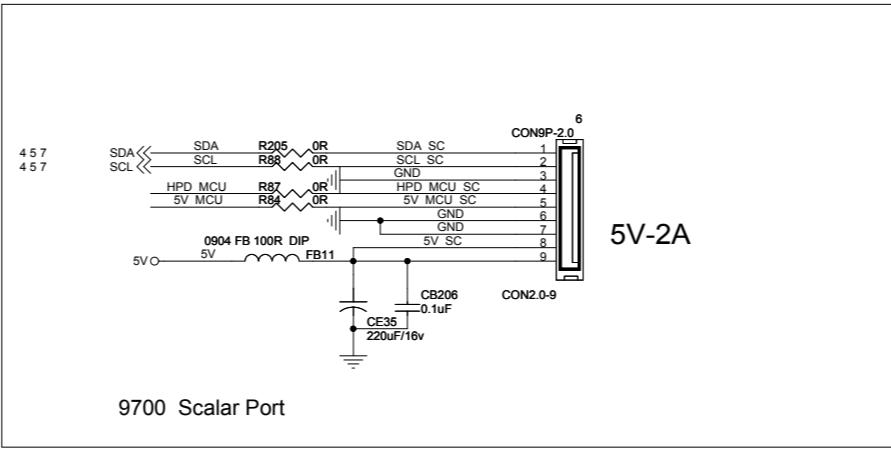
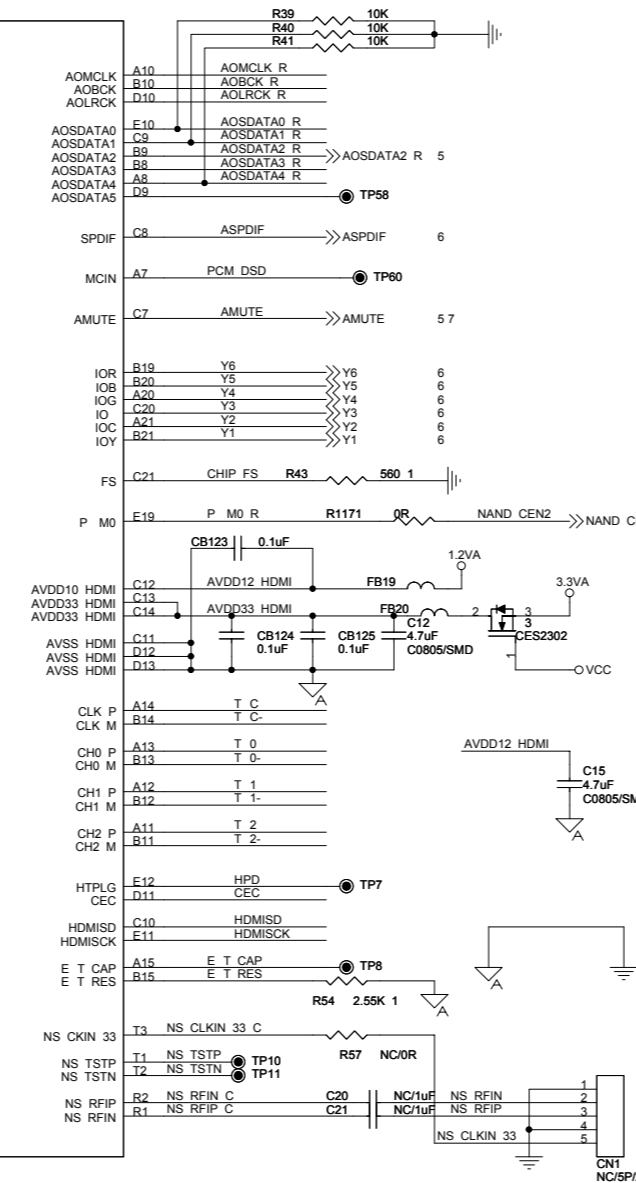
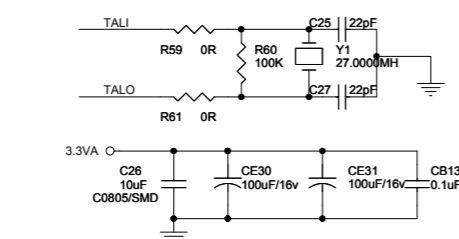
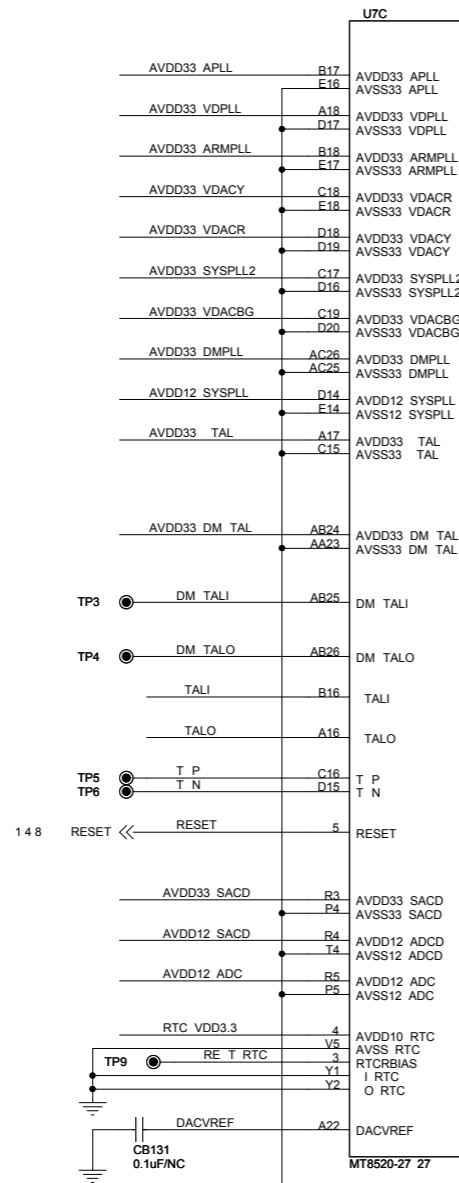
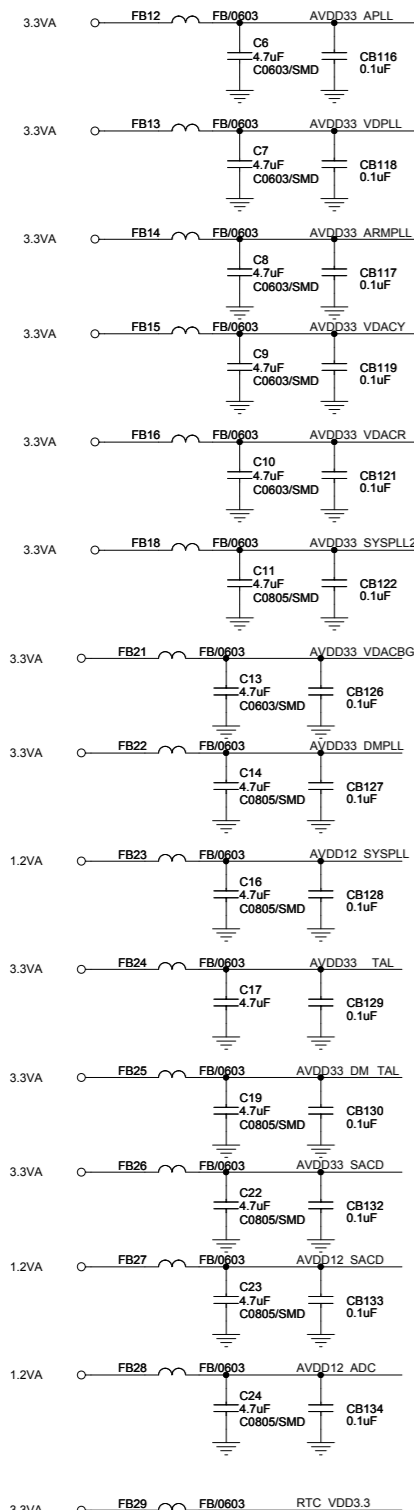
Decoder Board -- Circuit Diagram



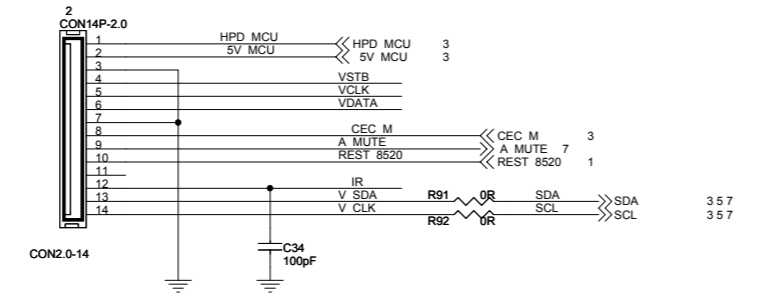
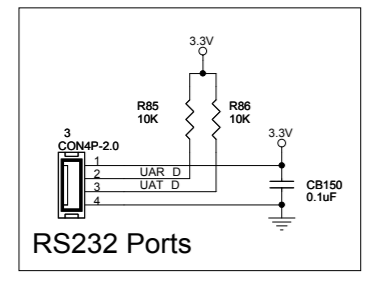
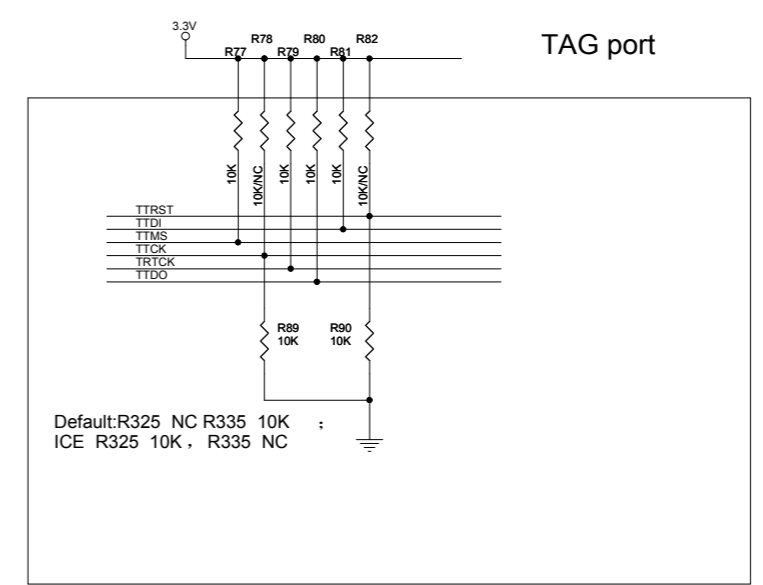
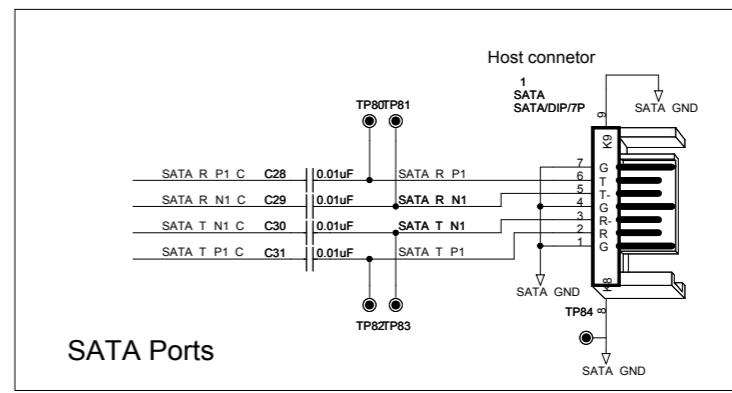
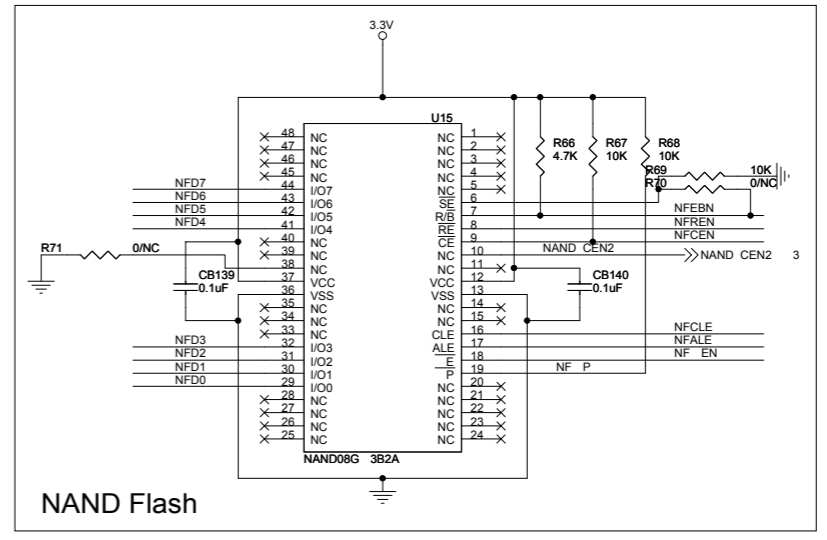
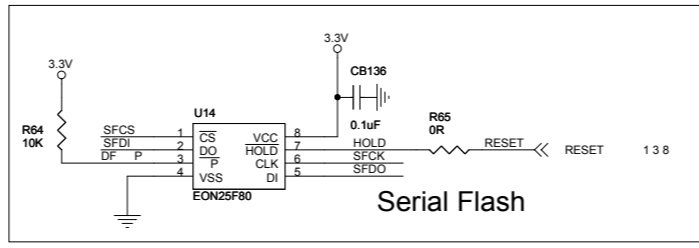
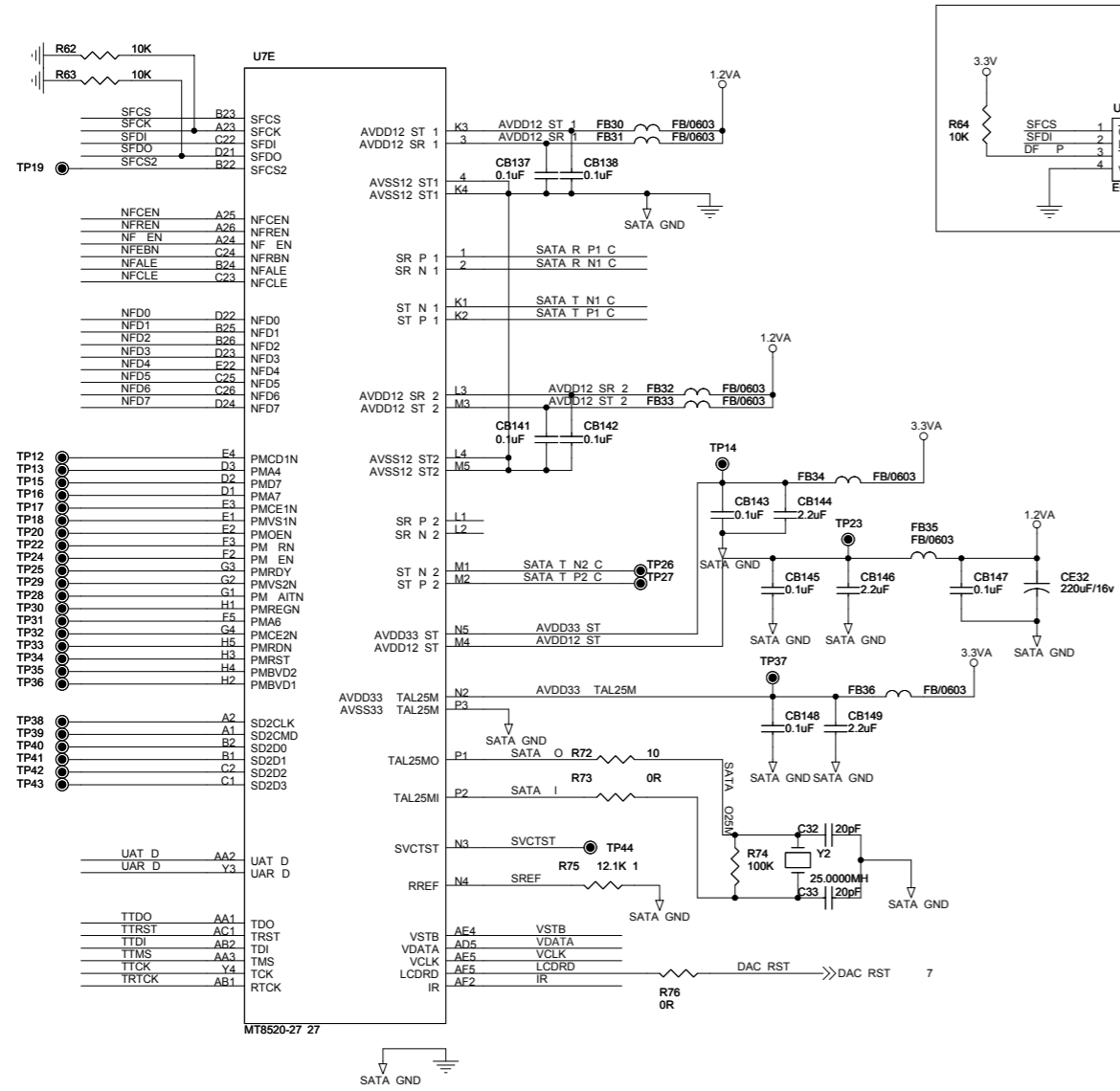
Decoder board -- Circuit Diagram



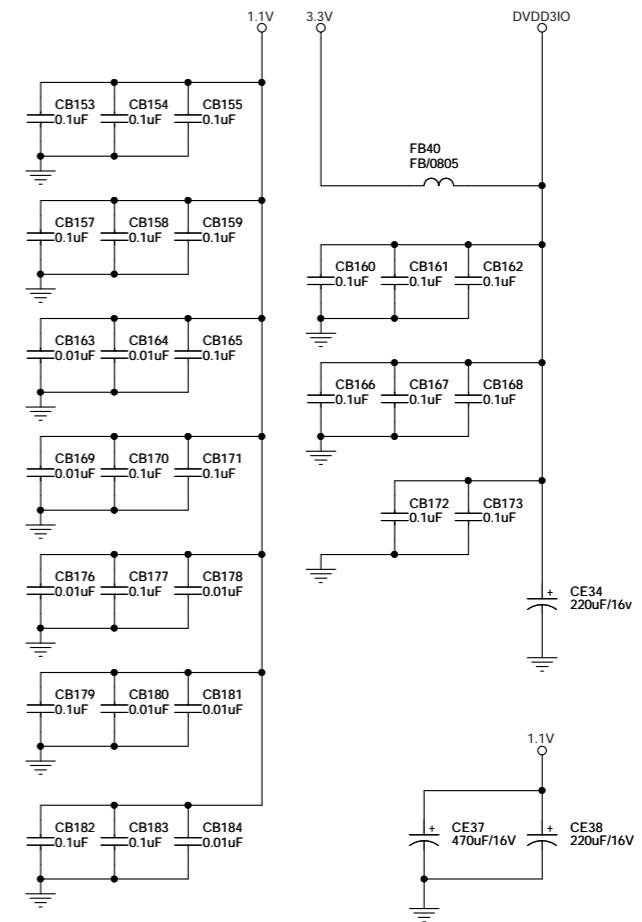
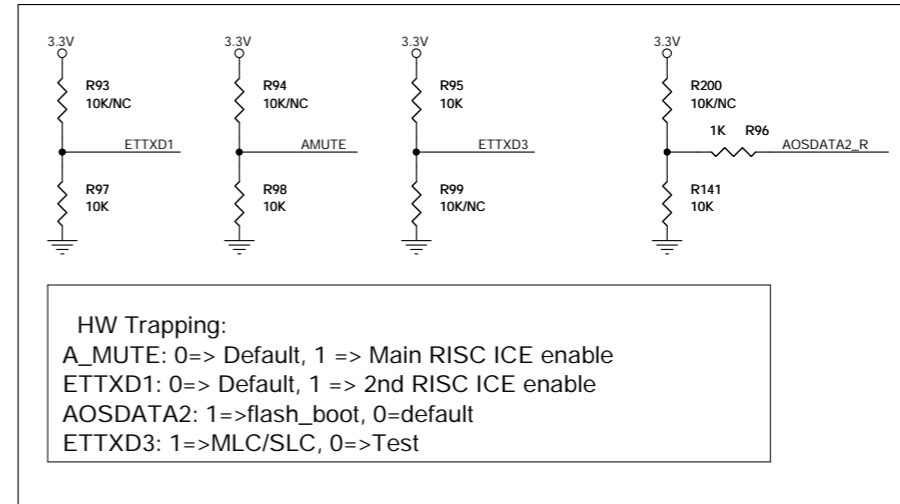
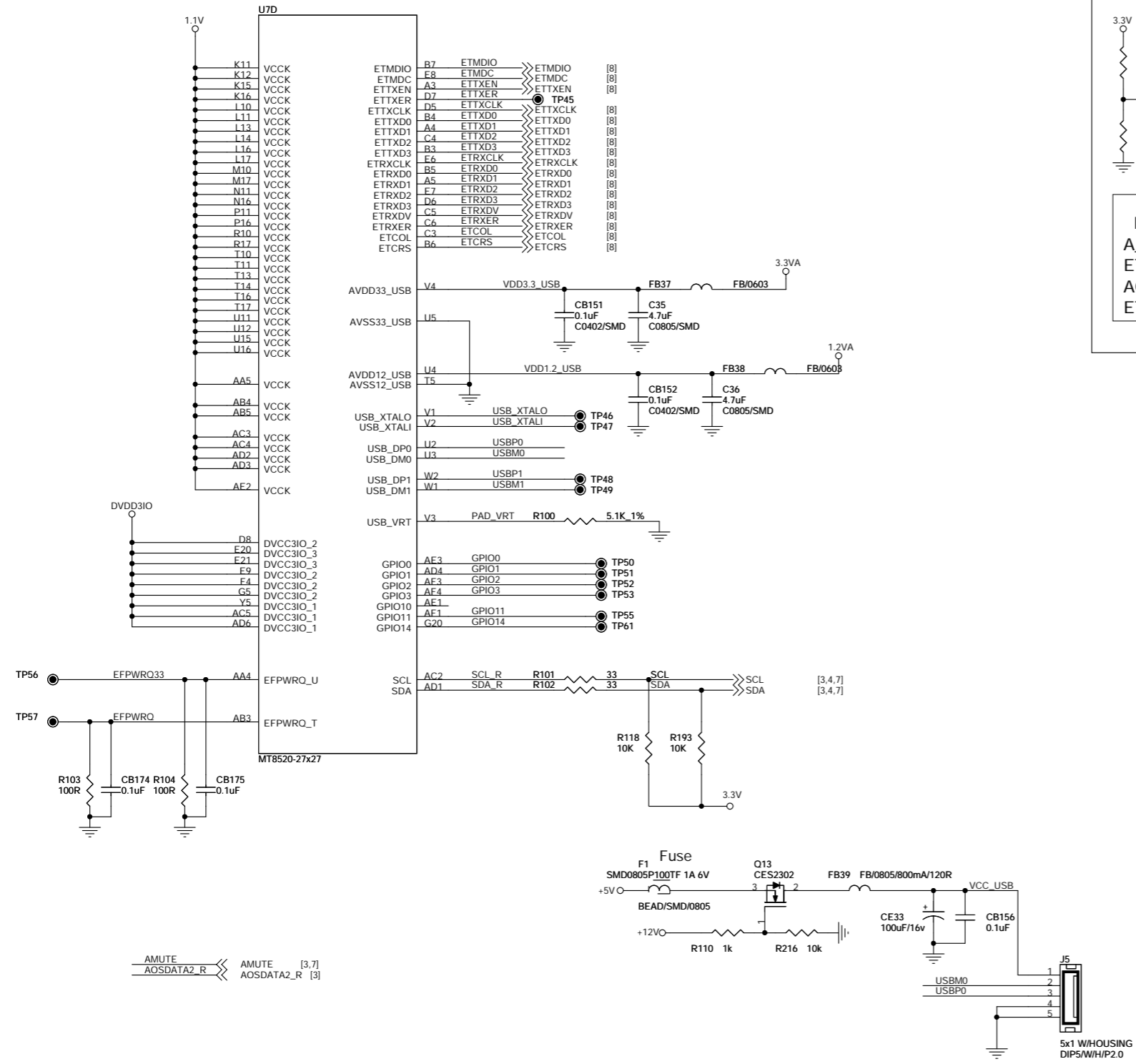
Decoder Board -- Circuit Diagram



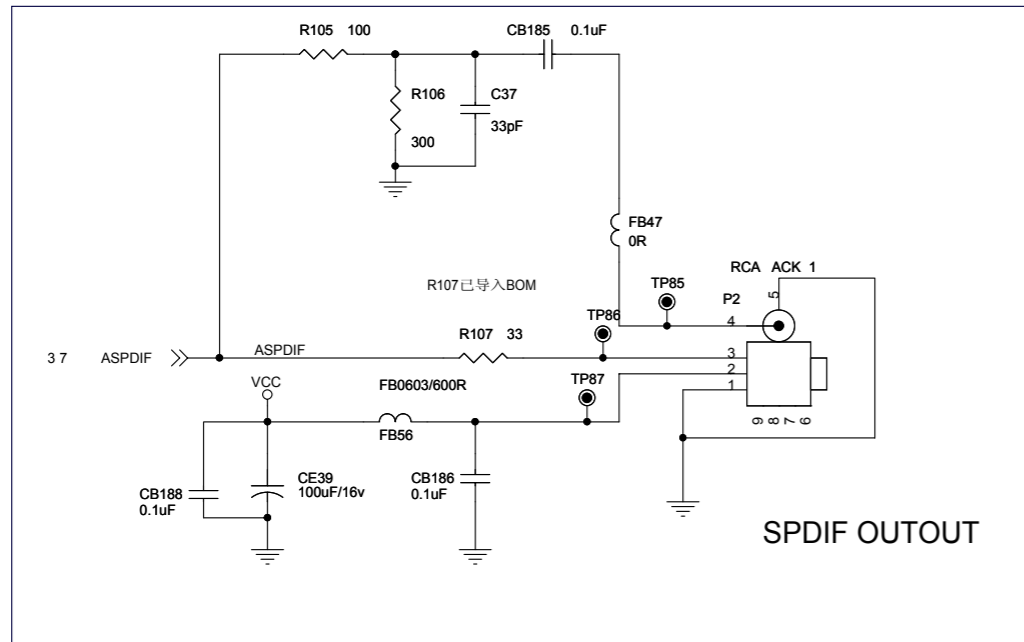
Decoder Board -- Circuit Diagram



Decoder Board -- Circuit Diagram



Decoder Board -- Circuit Diagram

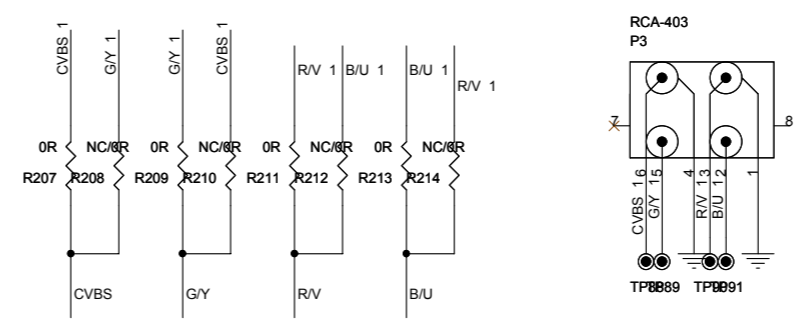
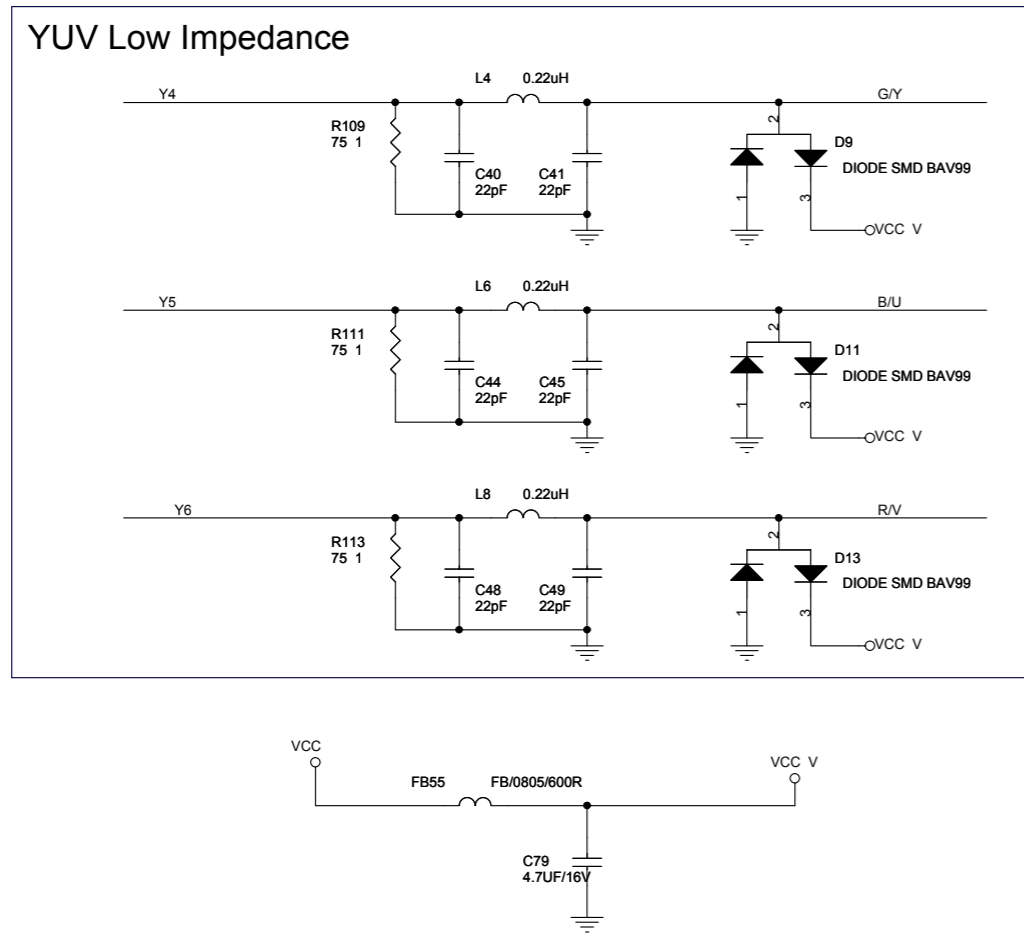
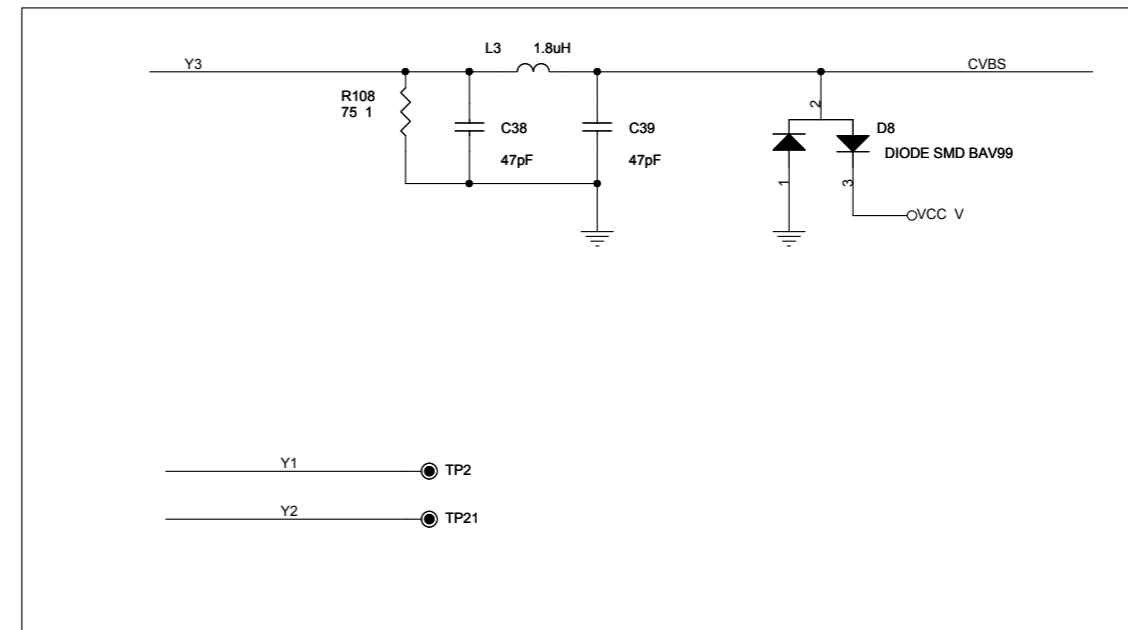


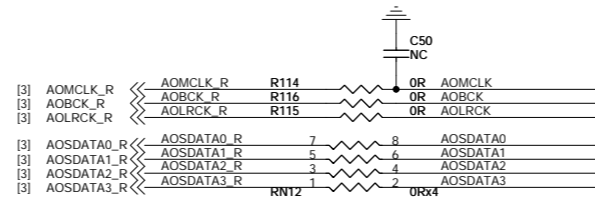
Low Impedance: Low Impedance circuit with Real Line
 Hi ht Impedance: Hi ht Impedance circuit with Bro en Line

Related PCB is match to SCH but no hi ht Impedance circuit in Bro en Line

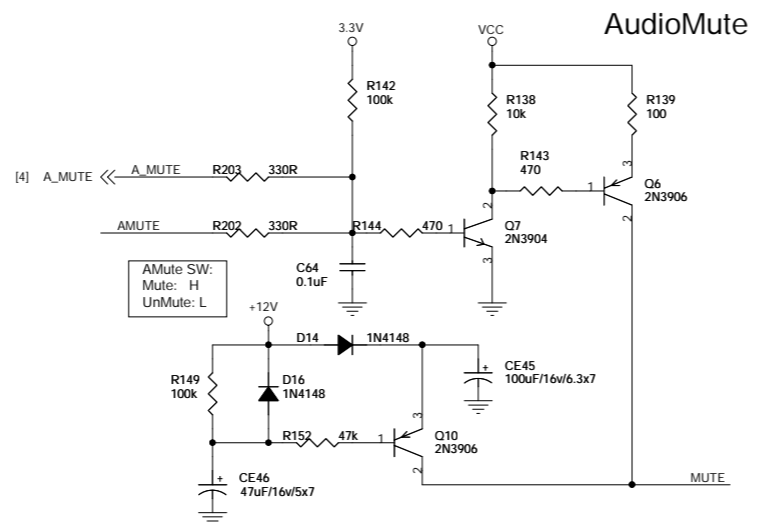
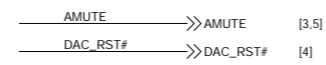
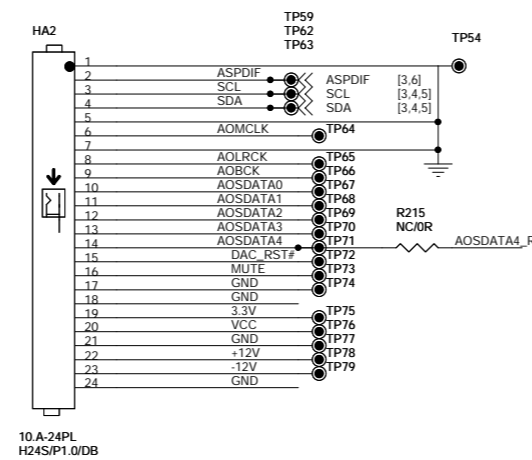


CVBS/SY/SC Low Impedance

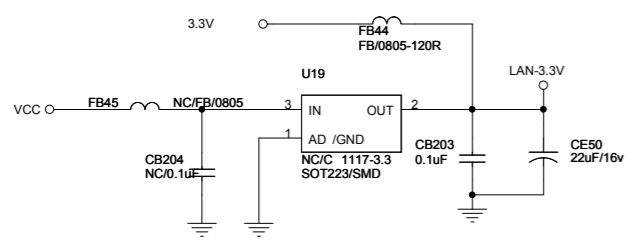
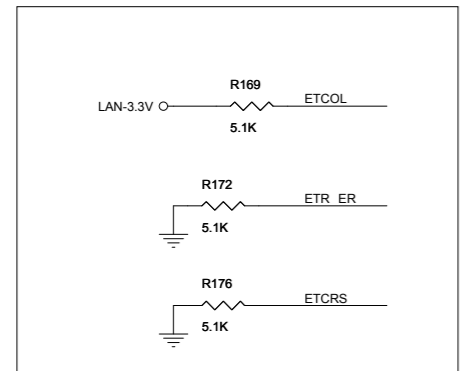
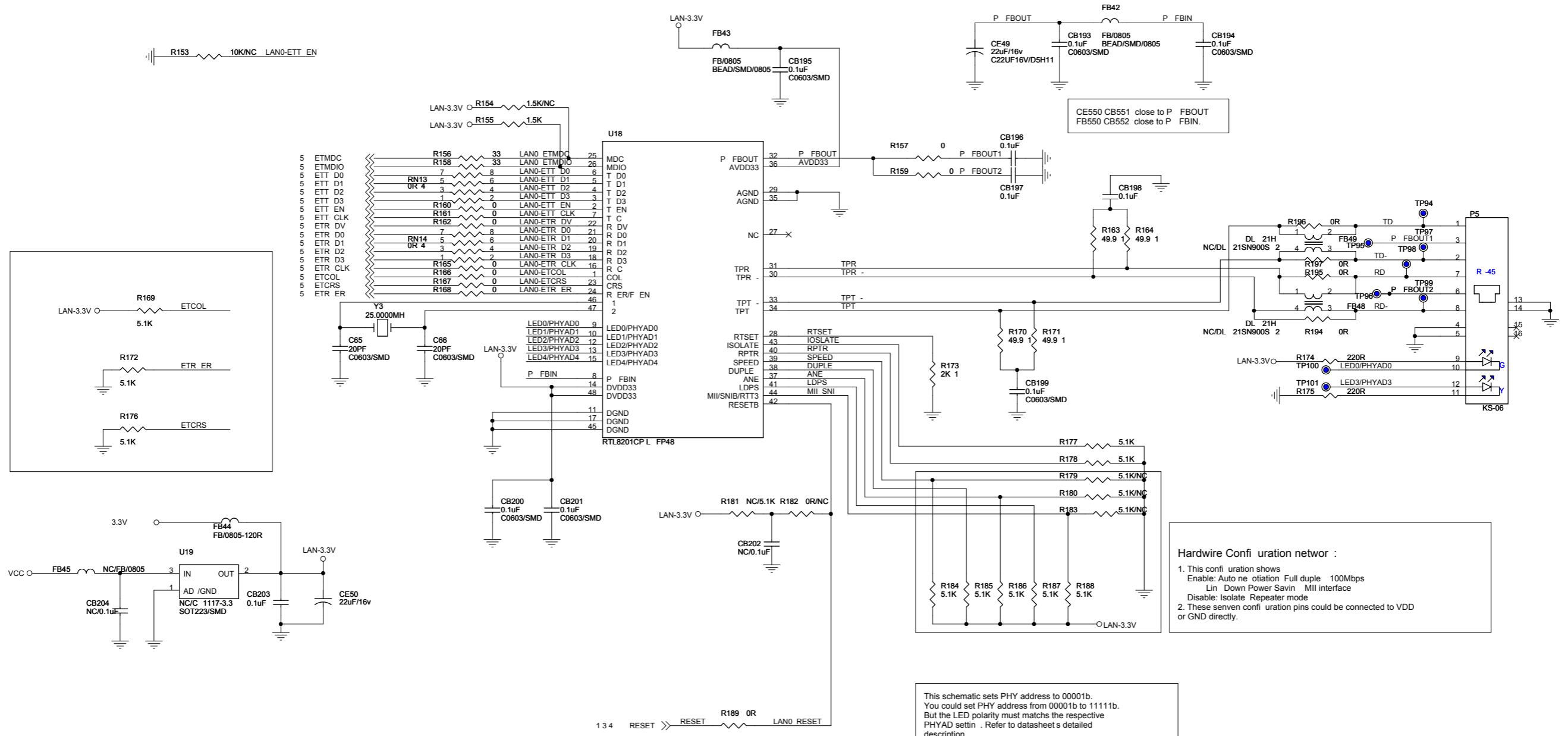




I2S for Audio DAC

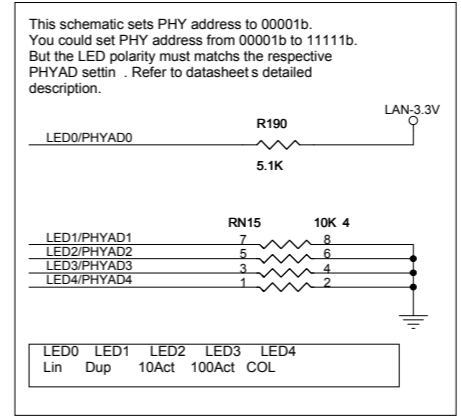


Decoder Board -- Circuit Diagram

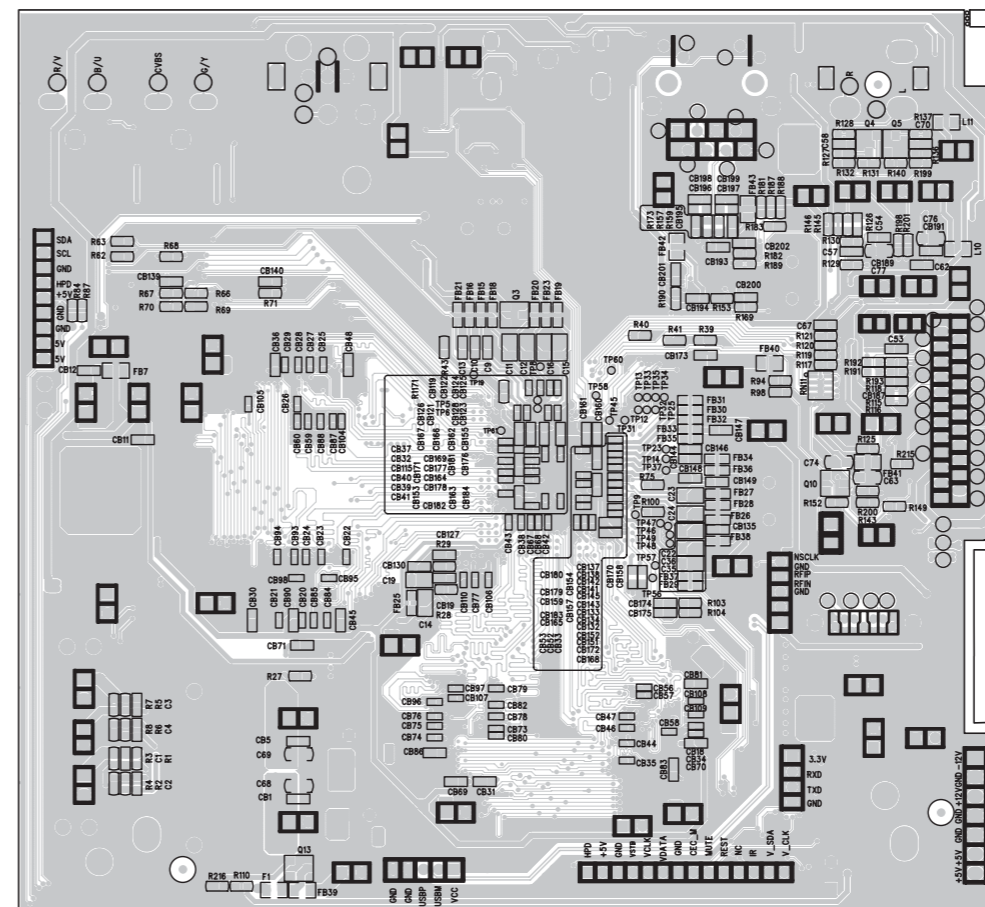
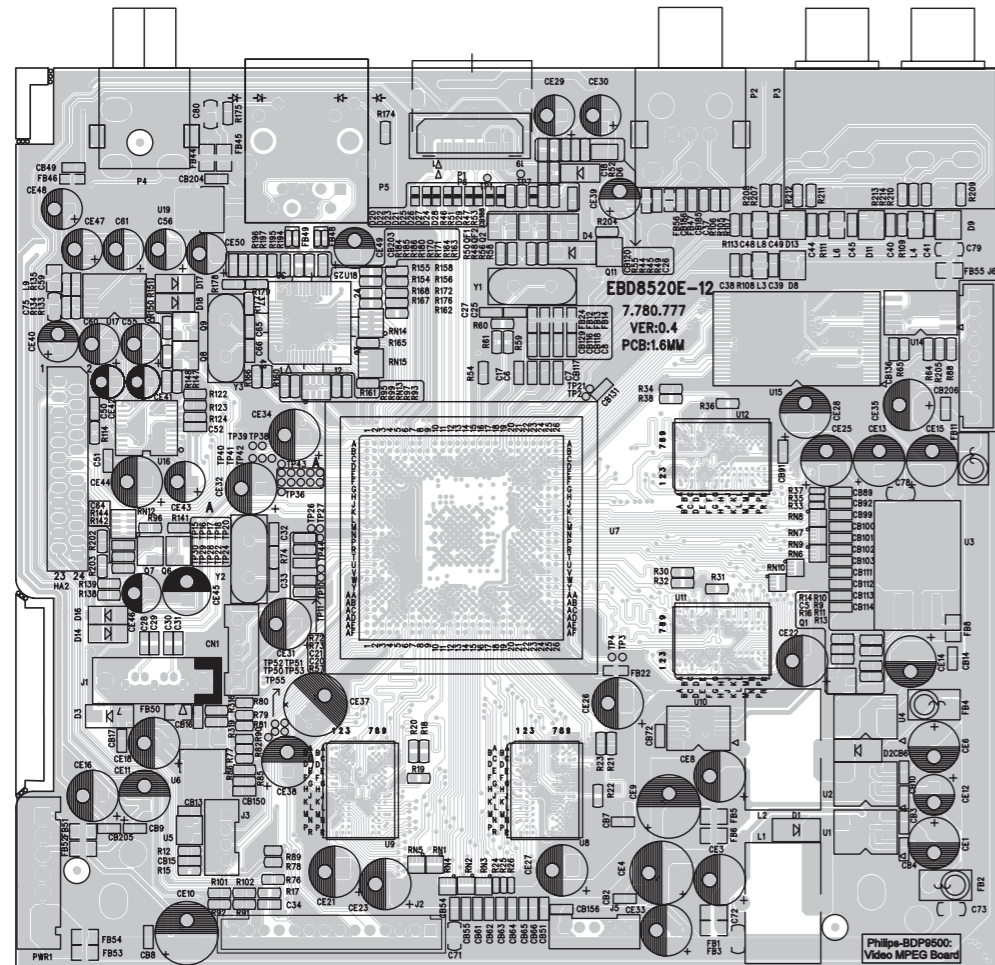


Hardwire Configuration network :

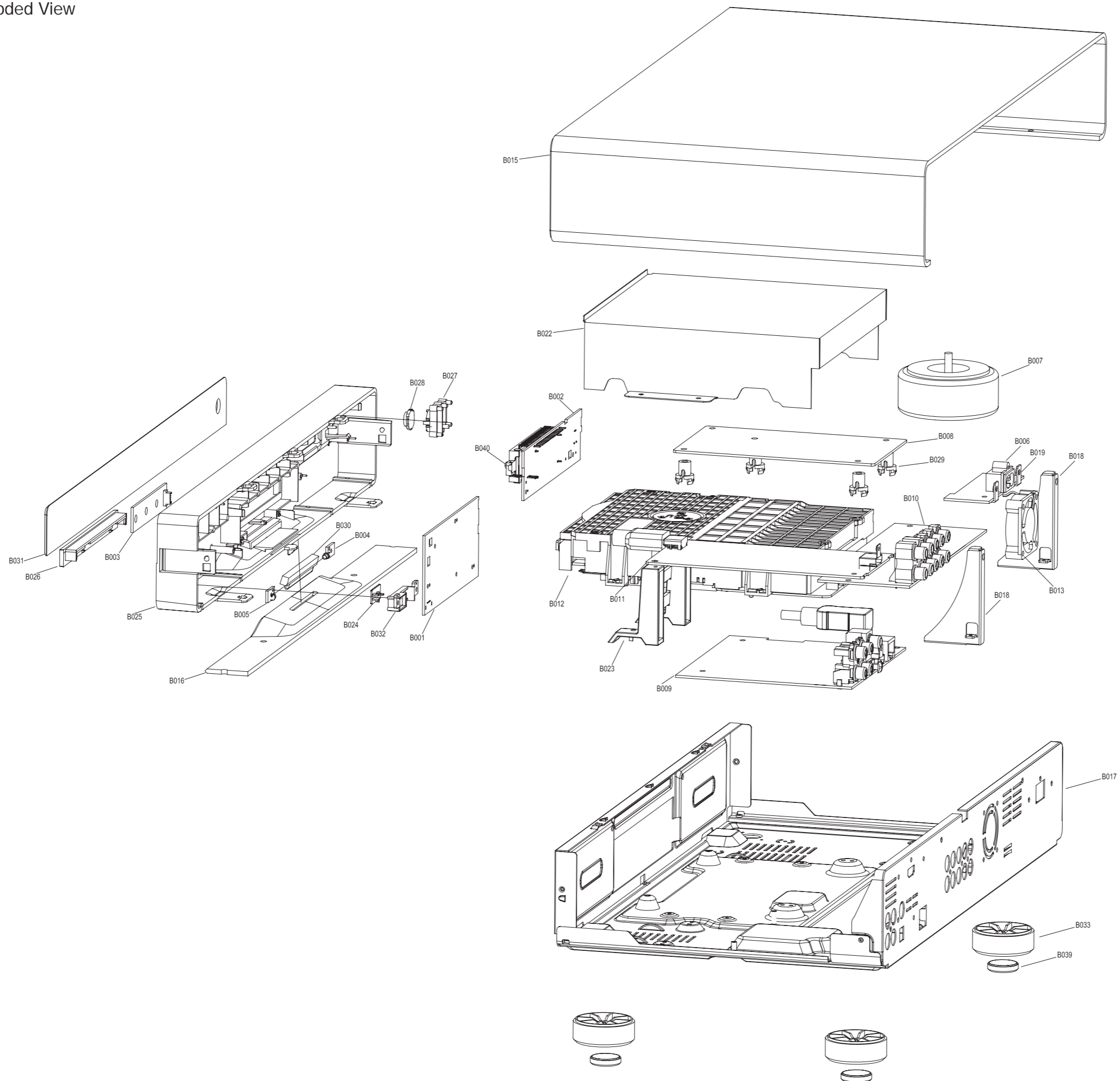
- This configuration shows:
 - Enable: Auto negotiation Full duplex 100Mbps
 - Lin Down Power Savin MII interface
 - Disable: Isolate Repeater mode
- These seven configuration pins could be connected to VDD or GND directly.



Decoder Board -- Layout Diagram



Exploded View



MECHANICAL PARTSLIST

B007	▲ 996510028937	TRANSFORMER BDP9500 220V/50 CE
B008	996510028933	POWER BOARD POW318A-12(POW318) (-/12)
B008	996510031118	POWER BOARD ASSY POW318A-51 (-/51)
B008	996510031222	POWER BOARD POW318A-73(POW318) (-/73/93)
B009	996510028953	DECODER BOARD BDP9500-12 (-/12)
B009	996510031115	DECODER BOARD ASSY BDP9500-51 (-/51)
B009	996510031221	DECODER BOARD BDP9500-73(-/73/93)
B010	996510028938	OUTPUT BOARD E9500JK(AUDIO)
B011	996510028945	HDMI BOARD E9500DHMI
B012	996510026587	BluRay MECHANISM BDP021C9332SY
B013	996510028948	MINI FAN RDM4010S DC12V/0.07A
B024	996510028954	BDP9500 USB DOOR ABST100/B
B025	996510028943	BDP9500 FRONT CABINET HIPS470
B026	996510028952	BDP9500 DVD DOOR ABST100
B027	996510028934	BDP9500 POWER BUTTON BRACKET (-/12/51/73)
B028	996510028927	BDP9500 POWER BUTTON L-GUIDE (-/12/51/73)
B029	996510026573	BDP7500 PCB BRACKET/HIPS (-/12/51/73)
B030	996510028944	BDP9500 LIGHT-GUIDE(PMMA)
B031	996510028935	BDP9500 DISPLAY LENS/PMMA/LOGO
B032	996510028947	BDP9500 USB DOOR BRACKET/ABS (-/12/51/73)
B033	996510028959	BDP9500 PLASTIC FOOT ABS/B (-/12/51/73)
B034	996510028941	HDMI CABLE 23cm/19P/M90 TO 180 (-/12/93)
B034	996510031119	HDMI CABLE 23CM/19P/M90 TO 180 (-/51/73)
B035	996510028926	SATA CABLE 200 7P/F180-7P/F90
B036	996510026579	FLAT FLEXIBLE CABLE 5PX50X1.0
B001	996510028936	BDP9500/12 MCU BOARD (-/93)
B002	996510028958	BDP9500 VFD DISPLAY BOARD (-/93)

ACCESSORIES

ACC1	996510026574	AV WIRE 1.5m RCA/2P(REL/WHITE)
ACC2	▲ 996510026598	POWER CORD 1.8m/ROUND PLUG VDE
ACC2	▲ 996510027154	POWER CORD 1.8m CCC (-/93)
ACC3	994000005078	AUDIO SINGLE WIRE W/RCA 1.5M
RC	996510028956	REMOTE CONTROL RC2484401-CAT2

PACKING1	996510033486	PAPER PULP (-/93)
PACKING2	996510033485	DISPLAY BOX (-/93)
PACKING3	996510033487	CARTON BOX (-/93)

Note: Only these parts mentioned in the list are normal service parts.

ELECTRICAL PARTSLIST**MCU BOARD ASSEMBLY**

D102	996510013857	DIODE IN60-52
D103	996510013857	DIODE IN60-52
J101	996510021103	USB JACK A-TYPE 4P/VERTICAL
L103	996510028949	AXIAL FIXED INDUCTOR 10u -52
L104	996510028949	AXIAL FIXED INDUCTOR 10u -52
LED102	996510026575	LED μ 3X5.2(3C2DW64C-2A) WHITE
LED103	996510026575	LED μ 3X5.2(3C2DW64C-2A) WHITE
LED104	996510026575	LED μ 3X5.2(3C2DW64C-2A) WHITE
U101	996510026608	IC R5F21266NFP

VFD DISPLAY BOARD ASSEMBLY

IR201	996510026606	IR SENSOR(1MP61620CT0001WR)36K
LED201	996510028939	LED 3R28E11C-2B-S02(HIGH-RED)
SW201	996510000020	LIGHT TOUCH SW.
U201	996510026603	IC PT6312BLQ iLF01C KBAB9
VFD201	996510026572	VFD DISPLAY 20075-2A23

TOUCH BOARD ASSEMBLY

U801	996510026589	IC WT5700(SOP16)
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LED BOARD-1 ASSEMBLY

LED401	996510028929	LED 2X3X4 23004BCH09-357/BLUE
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LED BOARD-2 ASSEMBLY

LED501	996510028929	LED 2X3X4 23004BCH09-357/BLUE
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POWER TRANSFER ASSEMBLY

CN701	996510028955	AC SOCKET DB-8-12P9/5A/VDE/CCC
REL701	996510028951	RELAY HRS3TH-S-DC5V-A VDE

Note: Only these parts mentioned in the list are normal service parts.

REVISION LIST

Version 1.1 (3141 785 34391)

* Initial Release;

Version 1.2 (3141 785 34392)

* Page 17-1 to page 17-6 : Delete factory partlist;

* Page 16-1 : Add partlist for /51/73;

Version 1.2 (3141 785 34393)

* Page 16-1 : Add partlist for /93;