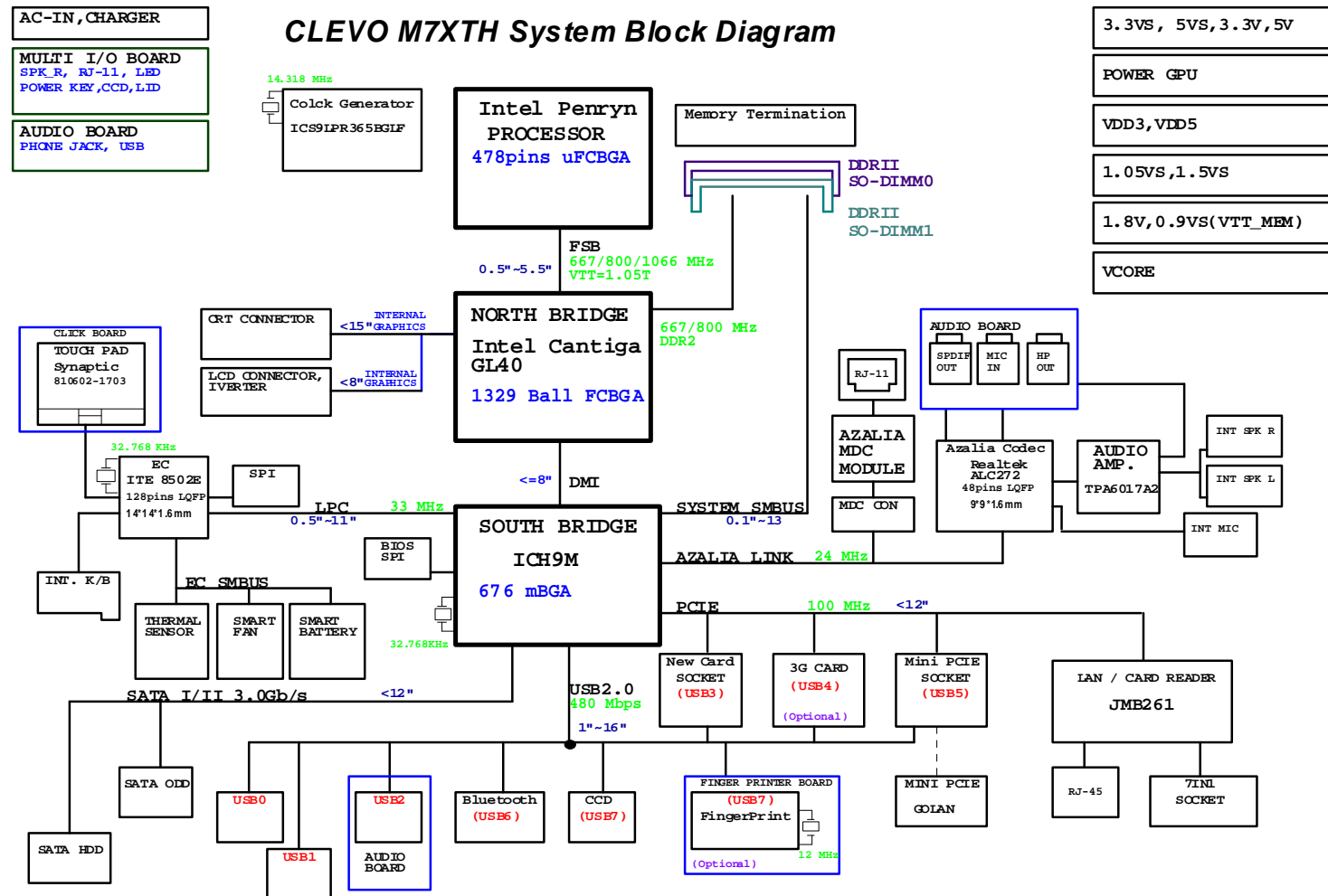
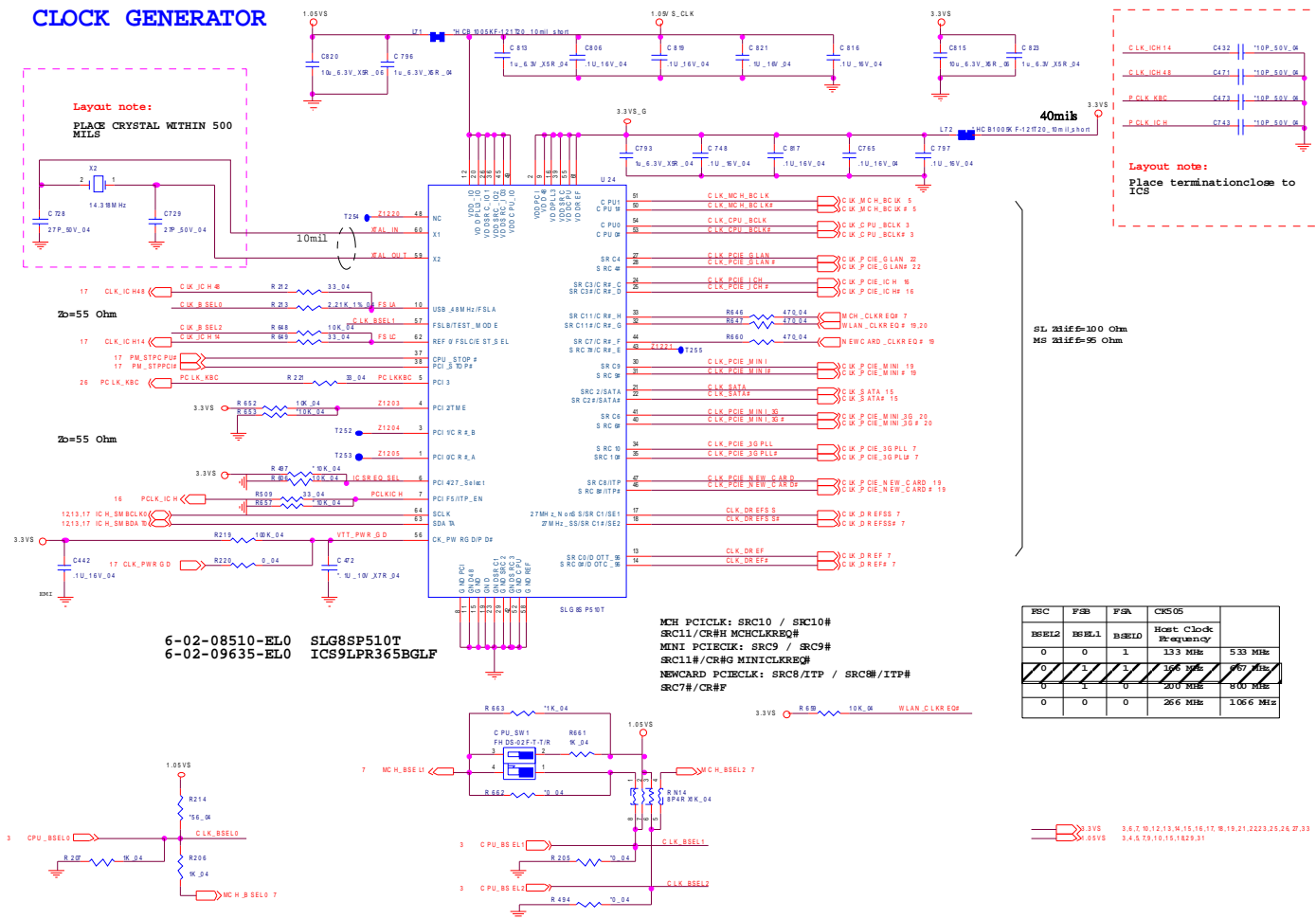


# System Block Diagram

Sheet 1 of 42  
System Block  
Diagram

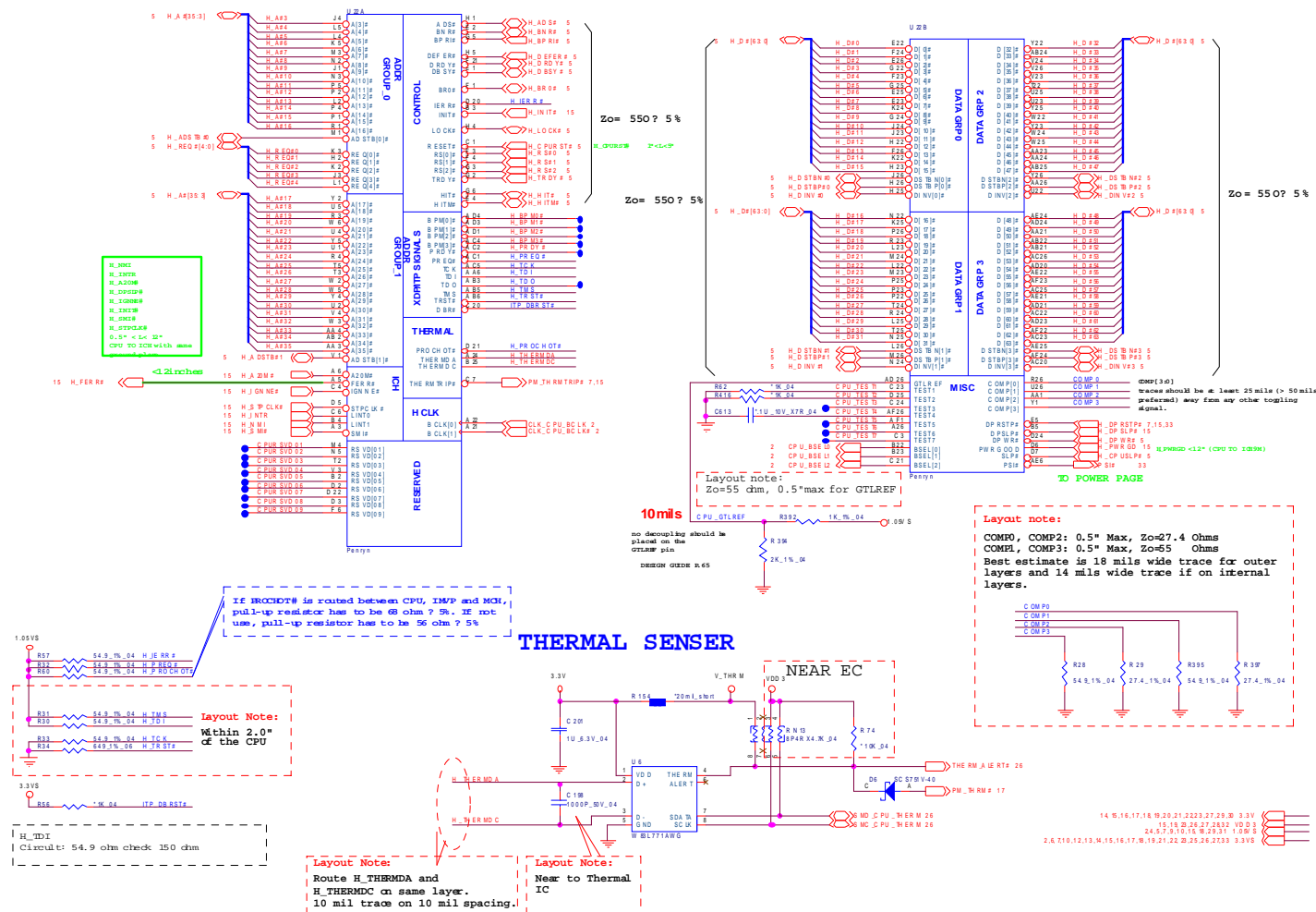


## Clock Generator

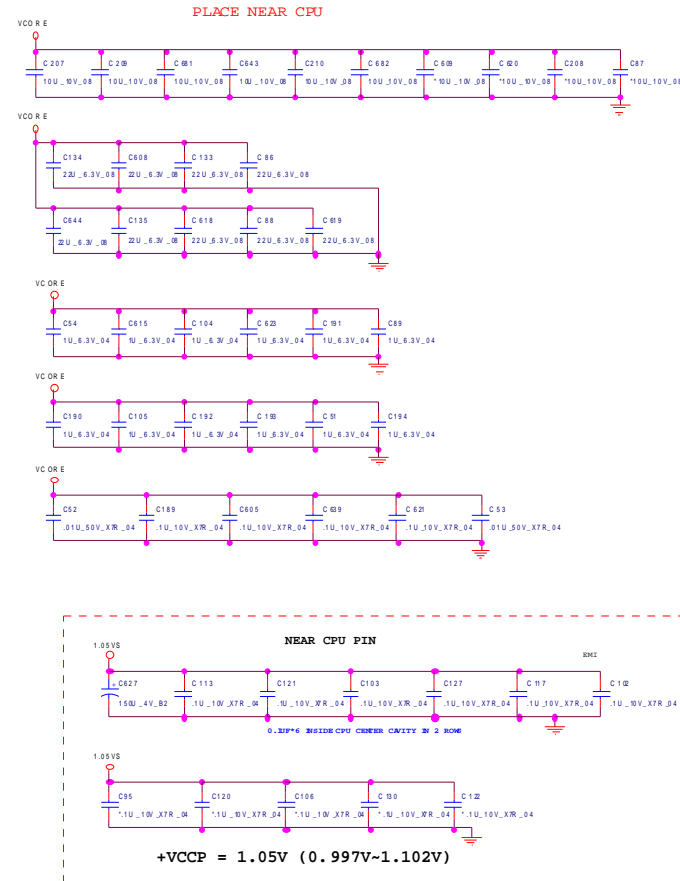
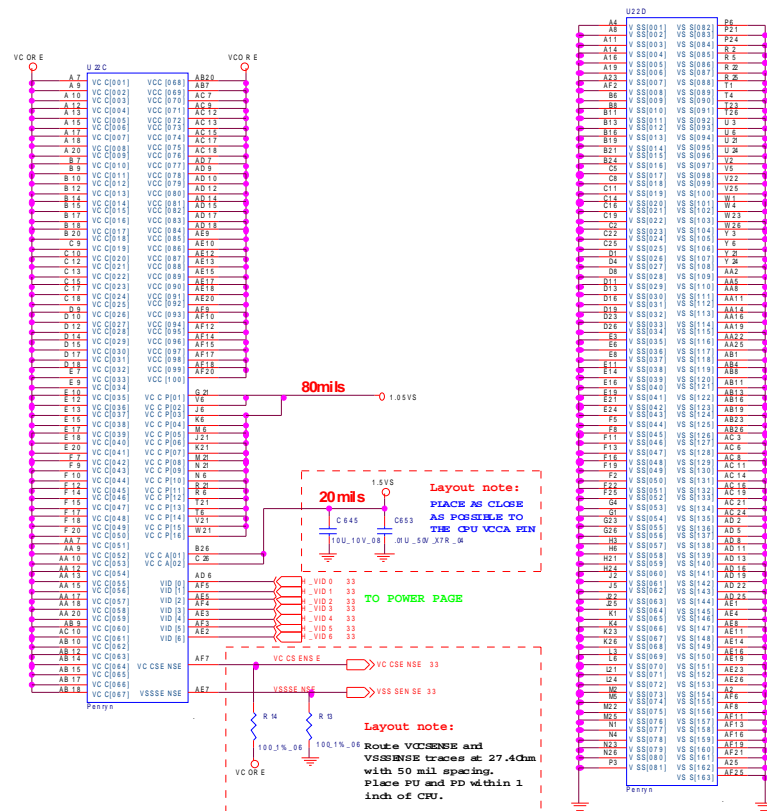


## Penryn (Socket-P) CPU 1/2

Sheet 3 of 42  
Penryn (Socket-P)  
CPU 1/2



## Penryn (Socket-P) CPU 2/2



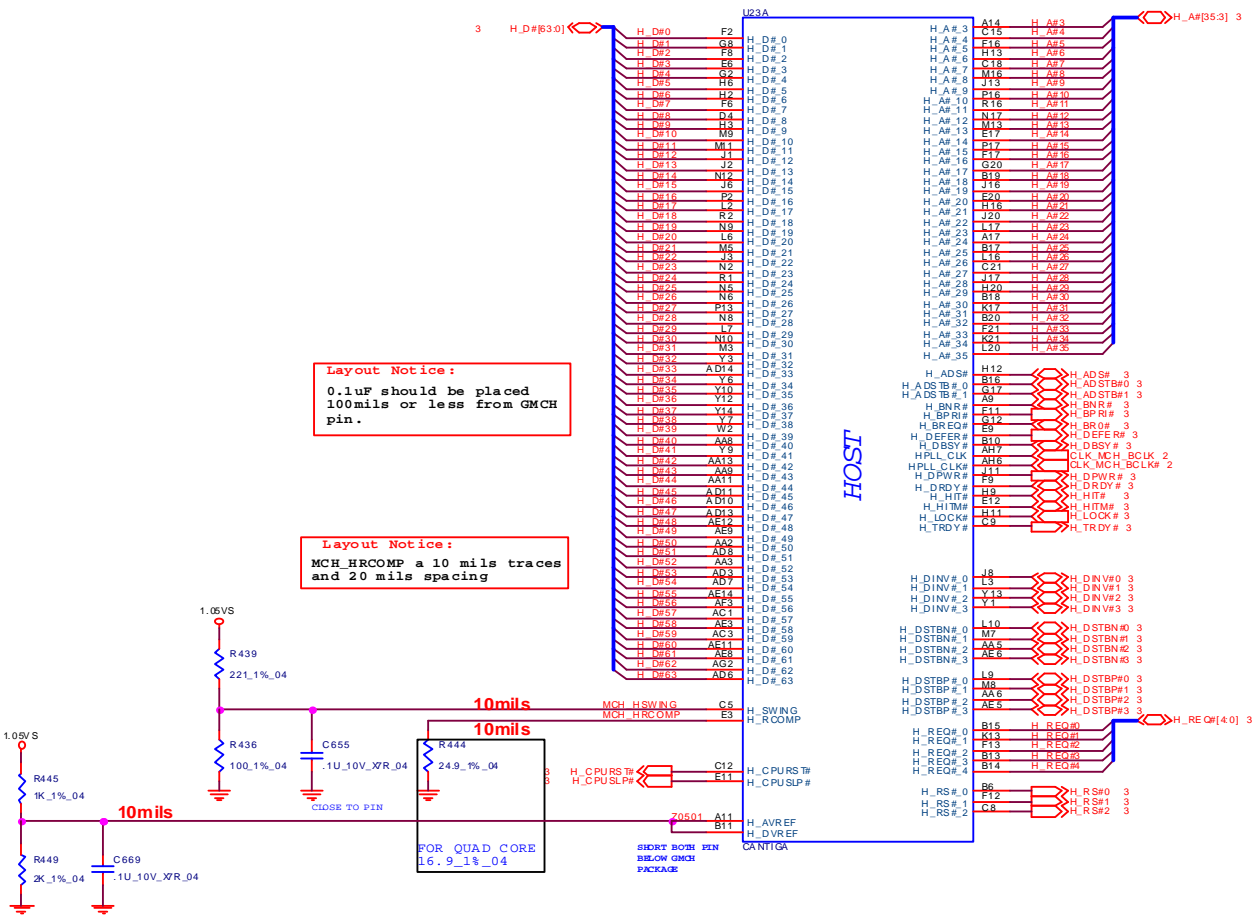
Sheet 4 of 42  
Penryn (Socket-P)  
CPU 2/2

## B.Schematic Diagrams

Schematic Diagrams

CANTIGA 1/7, Host

Sheet 5 of 42  
CANTIGA 1/7, Host



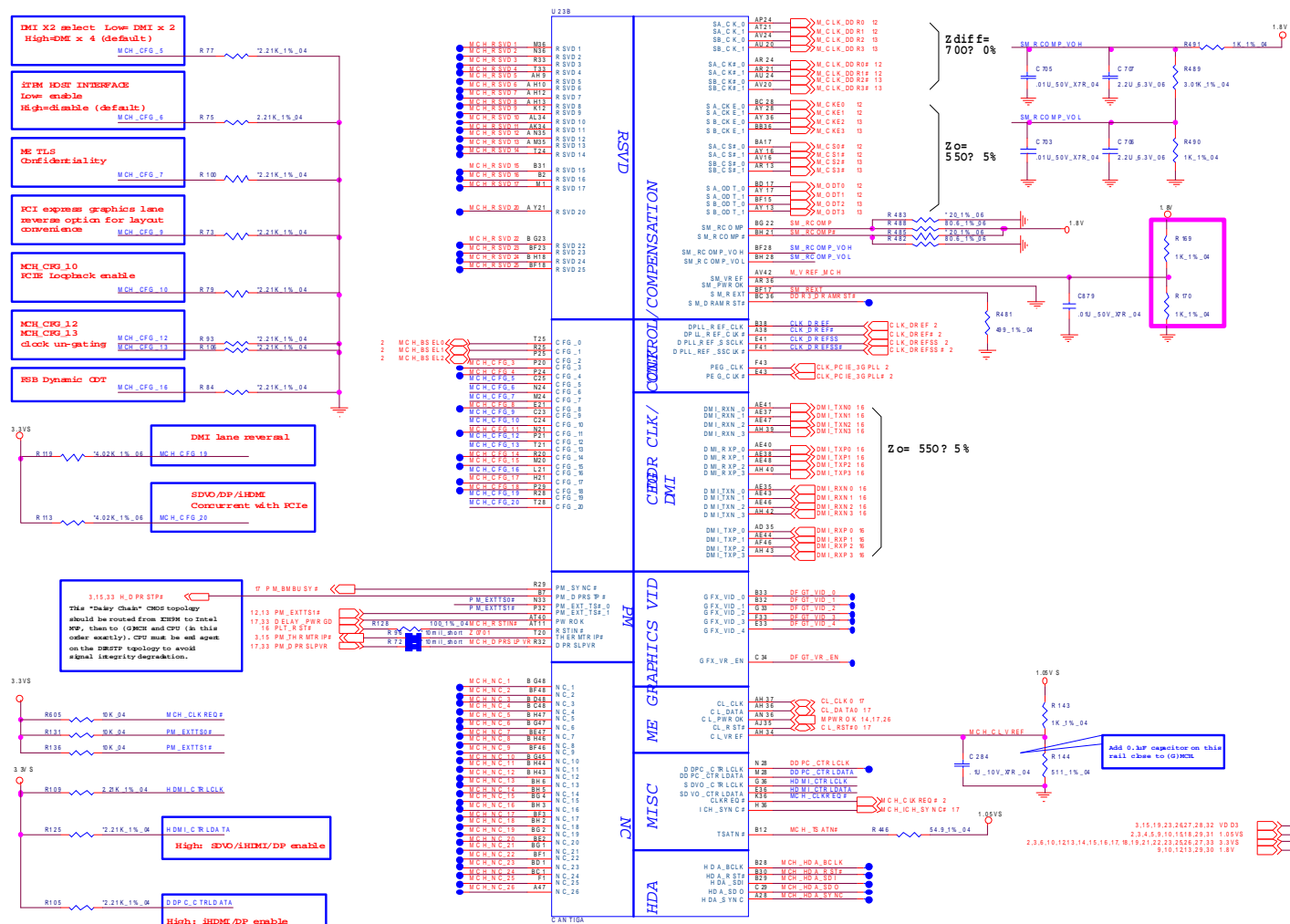
2,3,4,7,9,10,15,16,29,31 1.05VS

## B.Schematic Diagrams

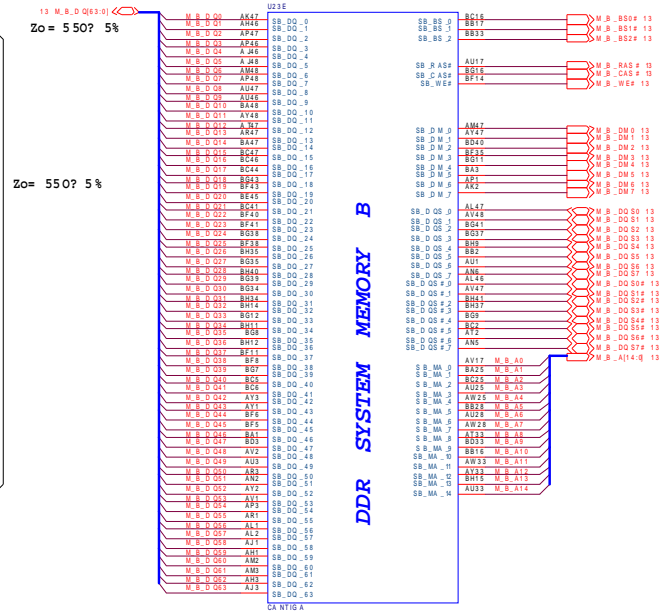
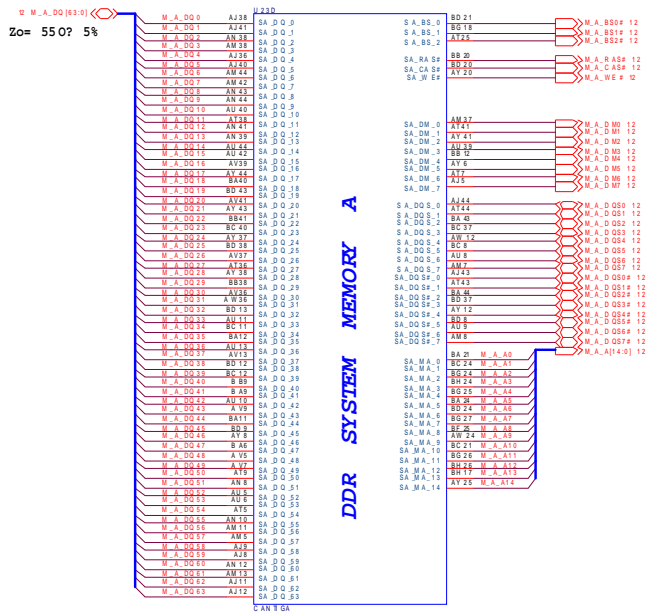


## B.Schematic Diagrams

Sheet 7 of 42  
CANTIGA 3/7



## CANTIGA 4/7



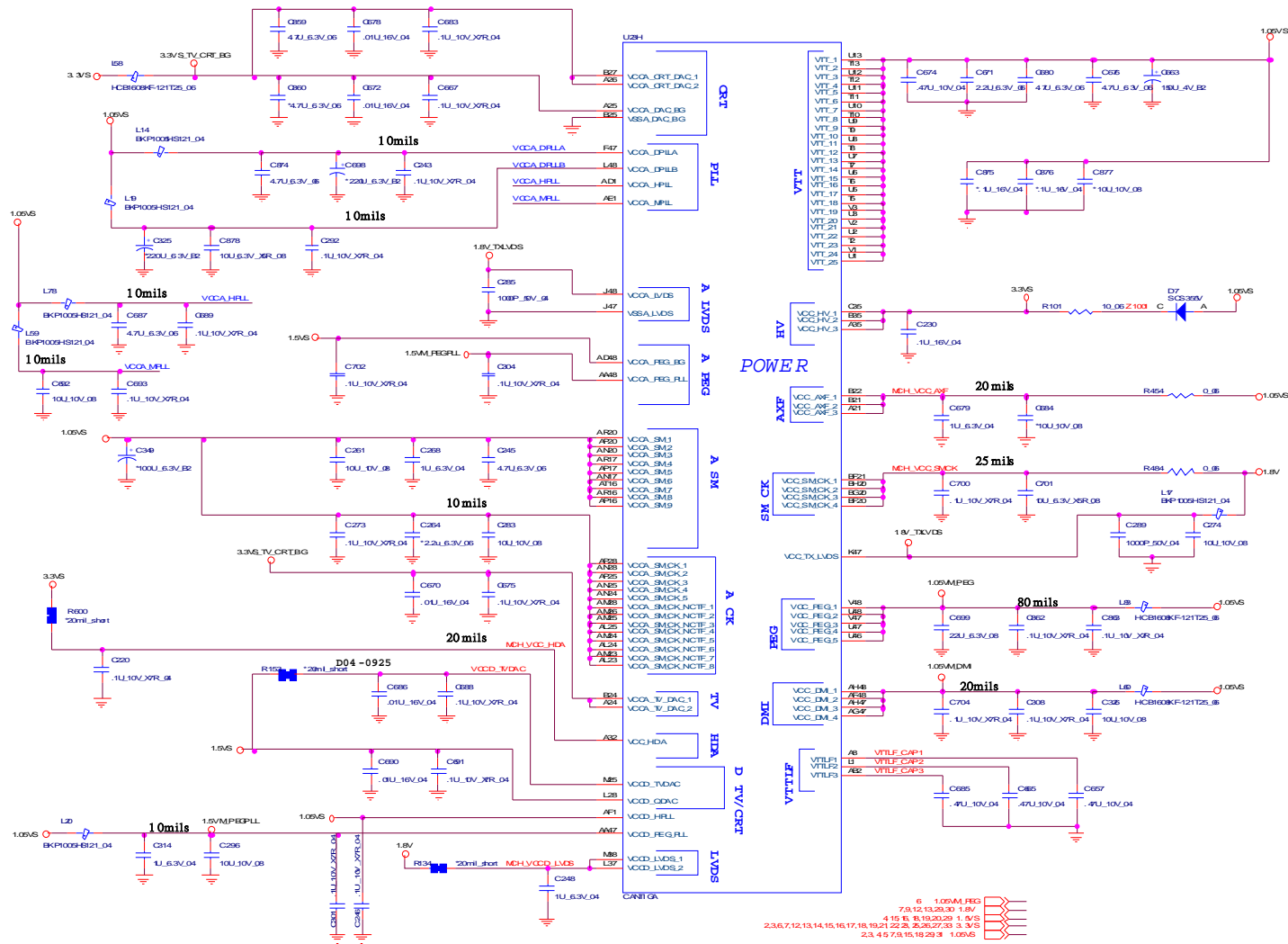
Sheet 8 of 42  
CANTIGA 4/7



Sheet 9 of 42  
CANTIGA 5/7



## CANTIGA 6/7

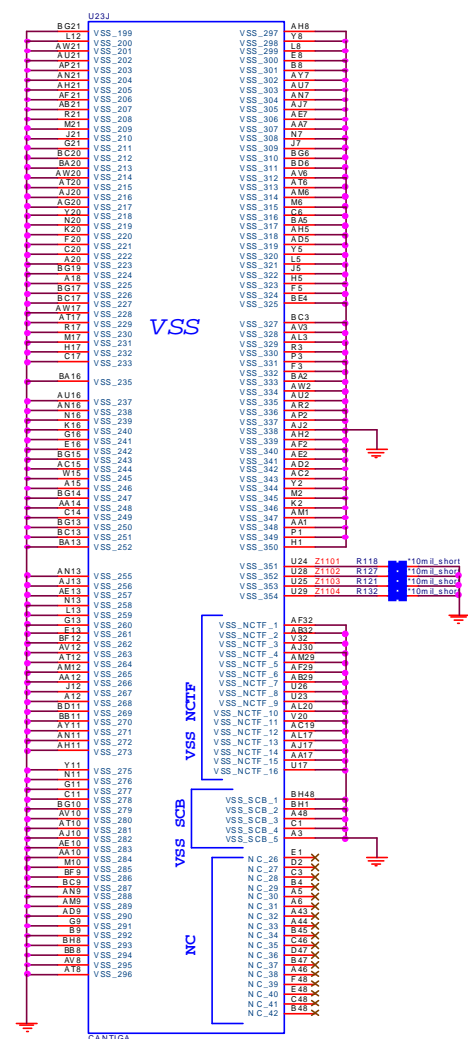
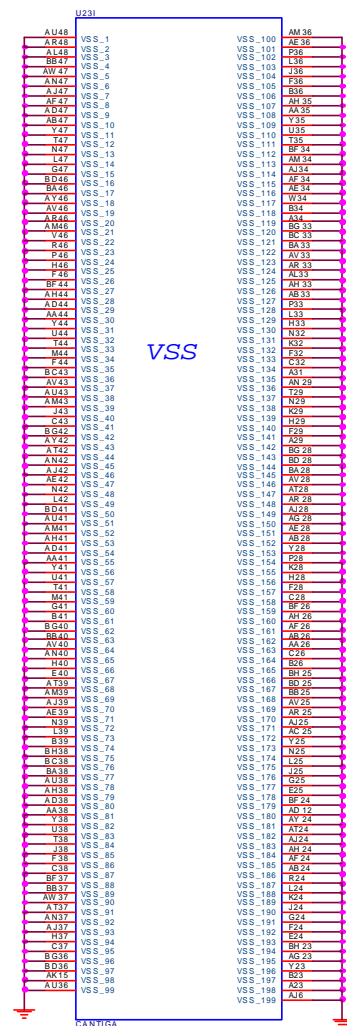


**Sheet 10 of 42**  
**CANTIGA 6/7**

## B. Schematic Diagrams

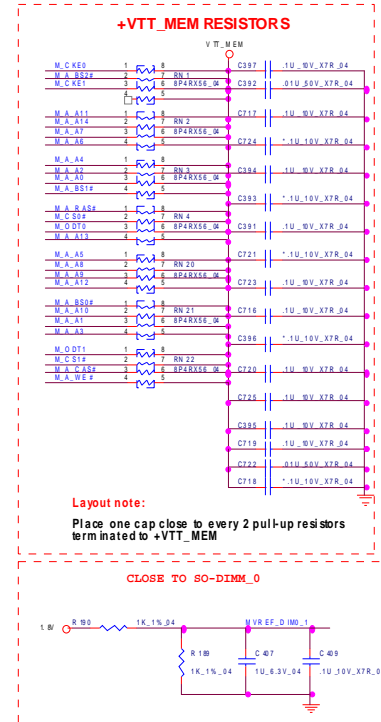
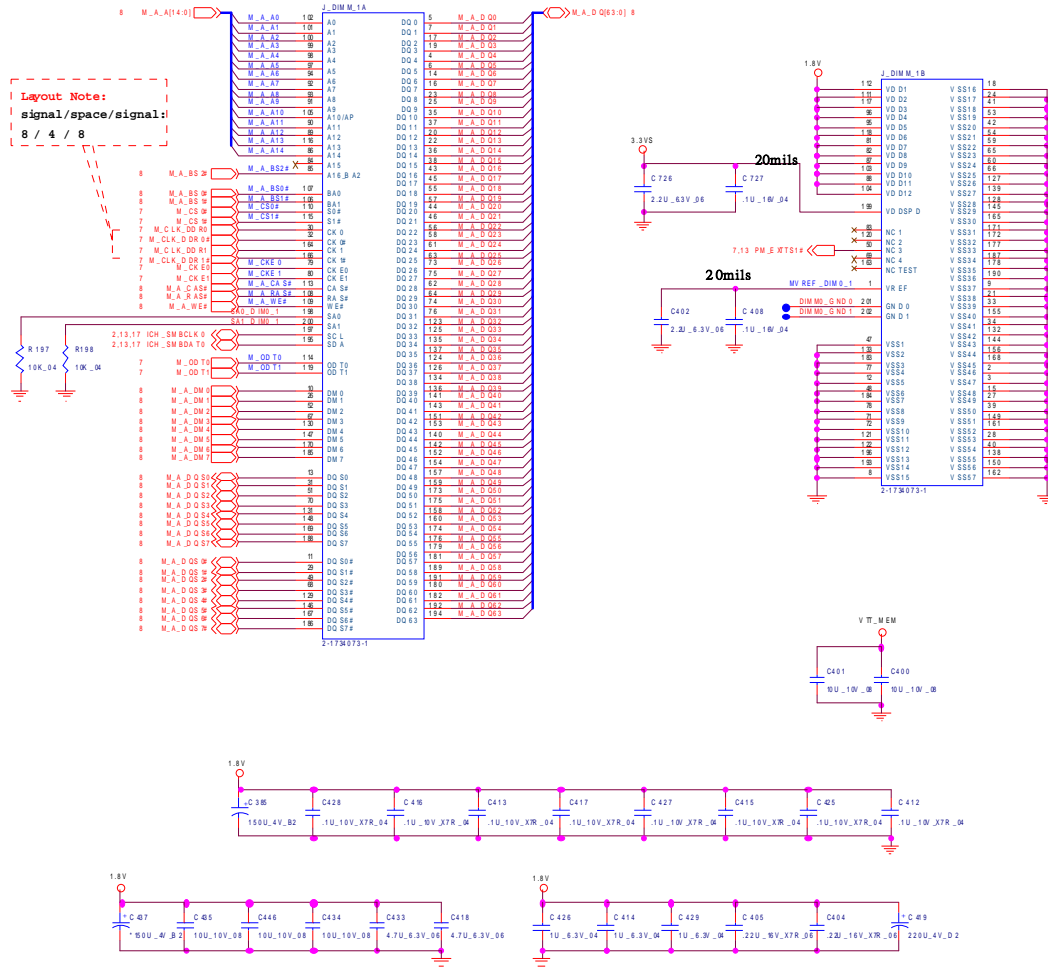
## CANTIGA 7/7

Sheet 11 of 42  
CANTIGA 7/7



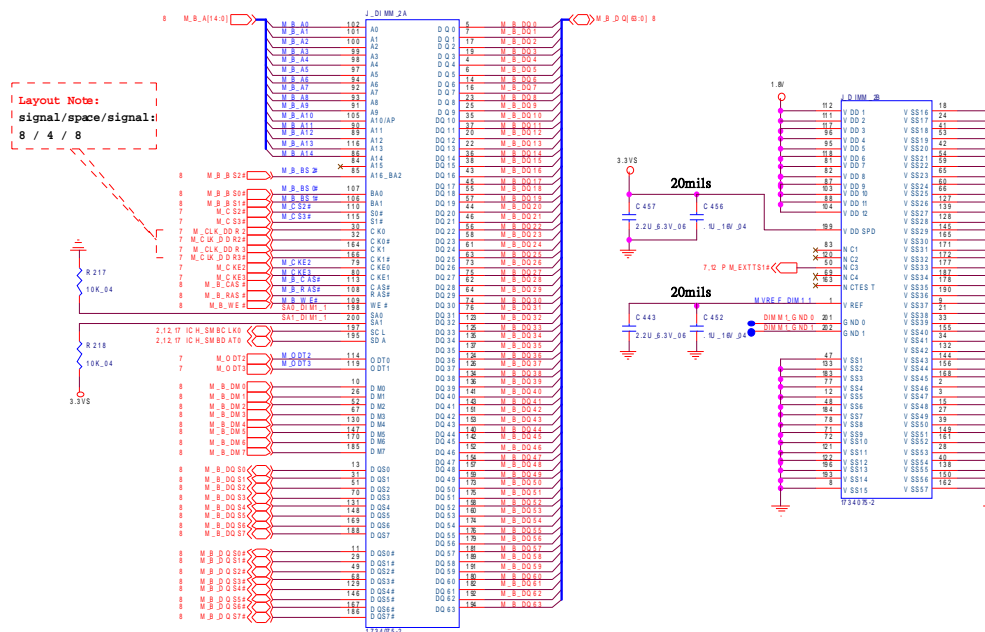
## DDRII SO-DIMM - 0

## SO-DIMM 0



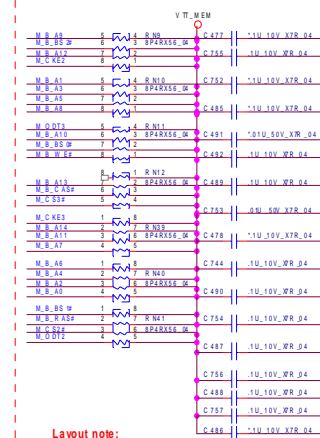
## B.Schematic Diagrams

## SO-DIMM 1



```
Layout Note:  
signal/space/signal:  
8 / 4 / 8
```

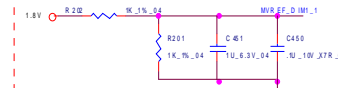
+VTT MEMRESISTORS



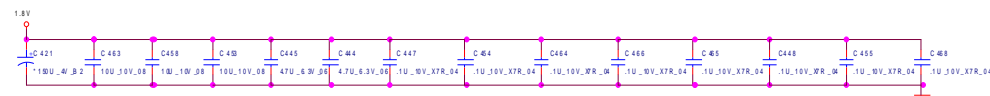
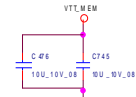
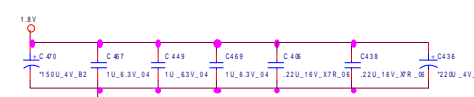
**Layout note:**

Place one cap close to every 2 pull-up resistors terminated to +VTT MEM

CLOSE TO SO-DIMM 1

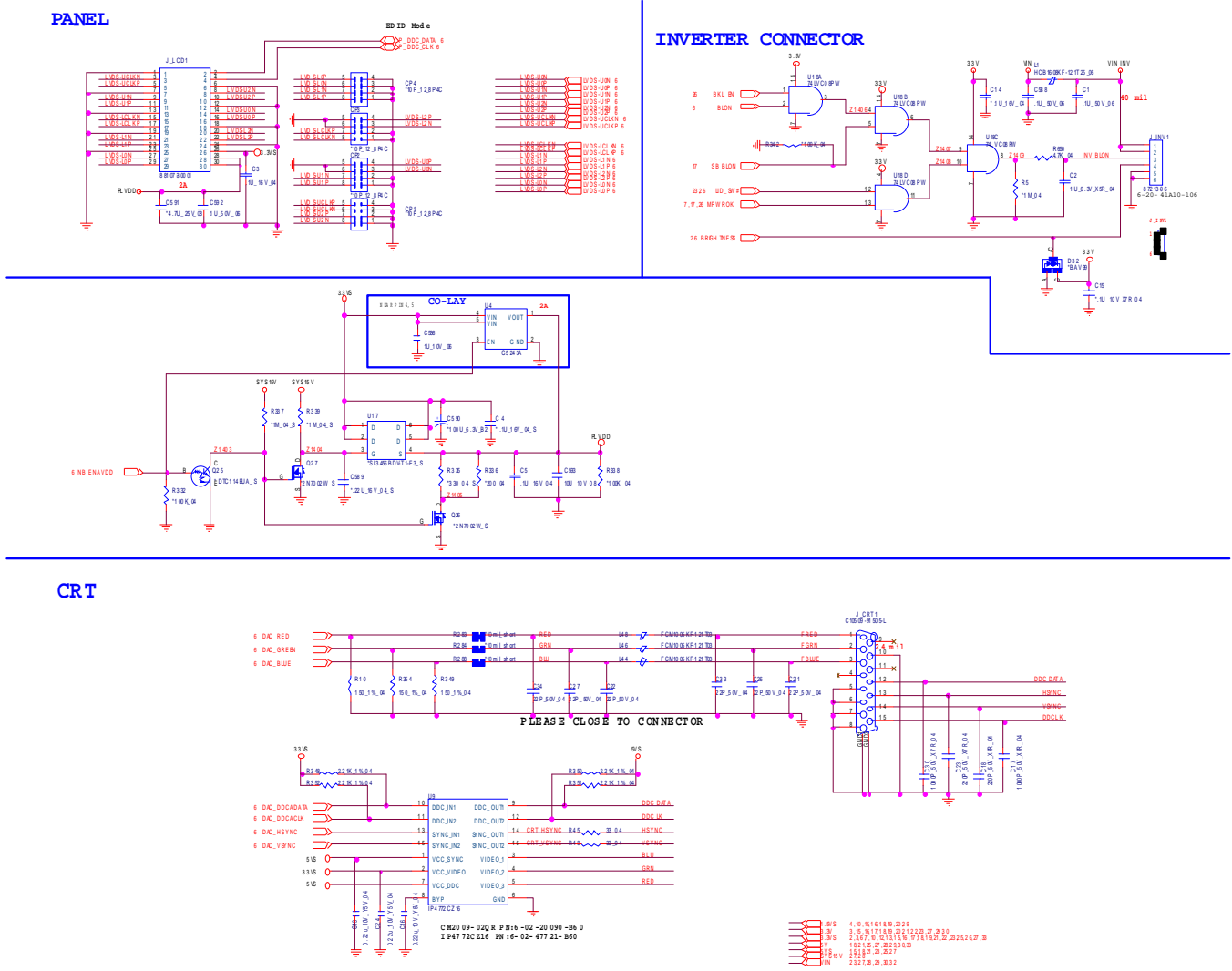


**Layout note:**  
SO-DIMM\_1 is placed farther from the GMCH than SO-DIMM\_0



2,3,6,7,10,12,14,15,16,17,18,19,21,22,23,25,26,27,33 33VS  
7,9,10,12,29,30 18V  
12,30 VTT\_MEM

# Panel, Inverter, CRT



Sheet 14 of 42  
Panel, Inverter, CRT



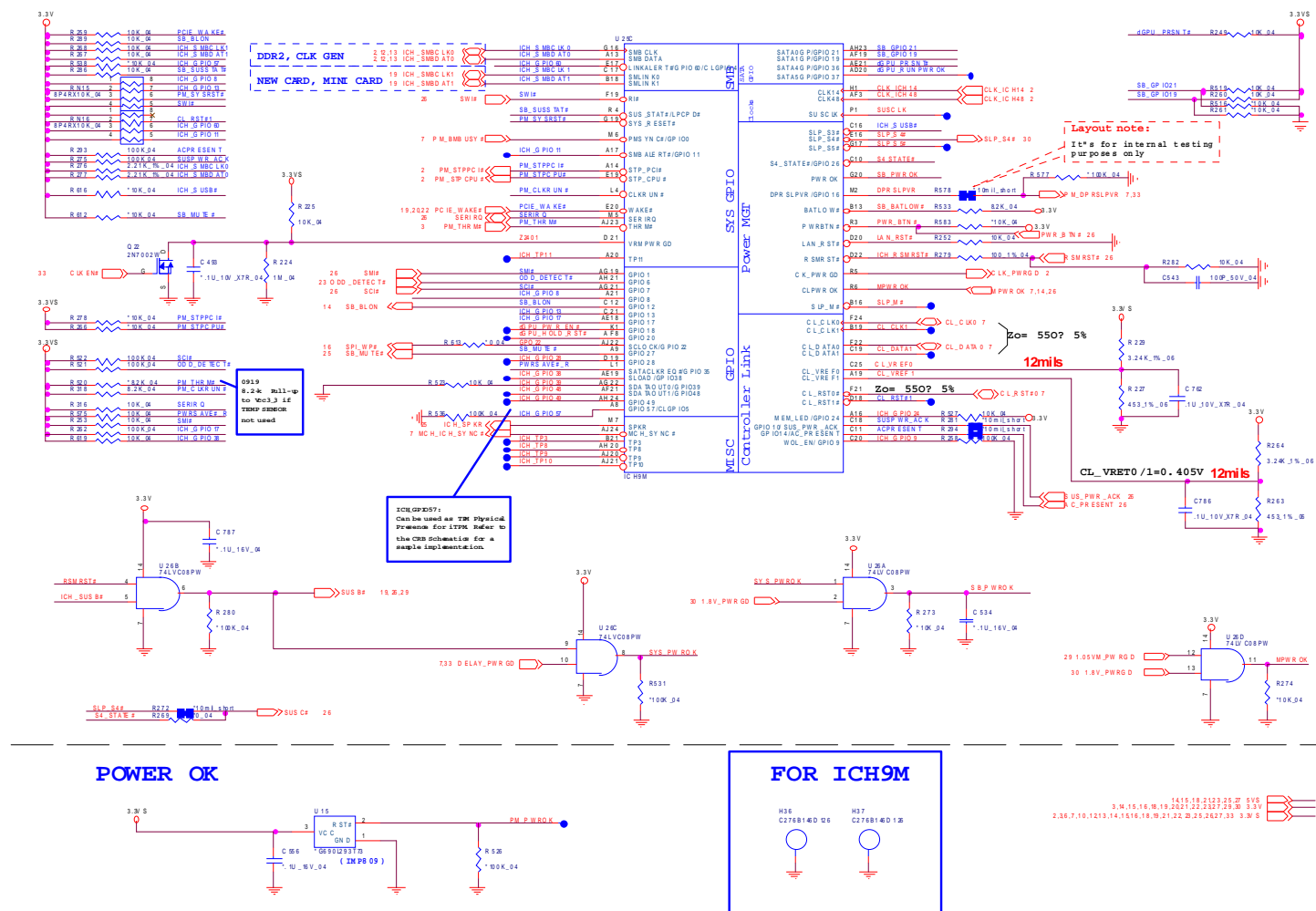
## B.Schematic Diagrams



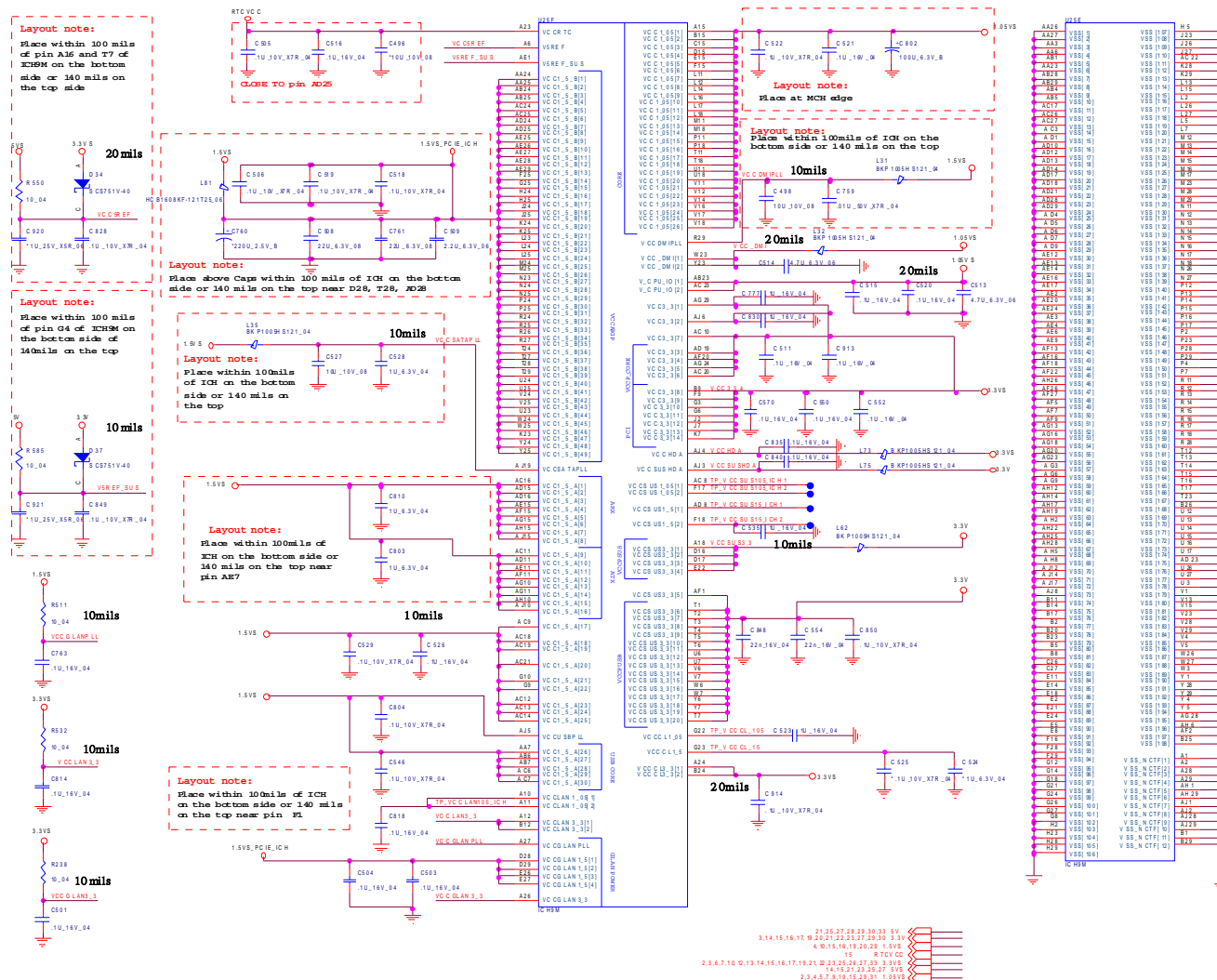


# ICH9M 3/4

Sheet 17 of 42  
ICH9M 3/4



# ICH9M 4/4

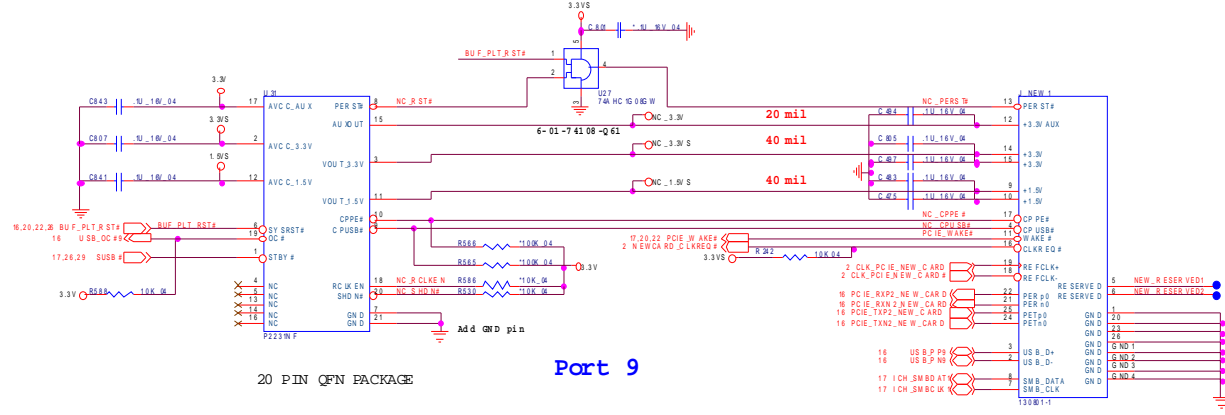


Schematic Diagrams

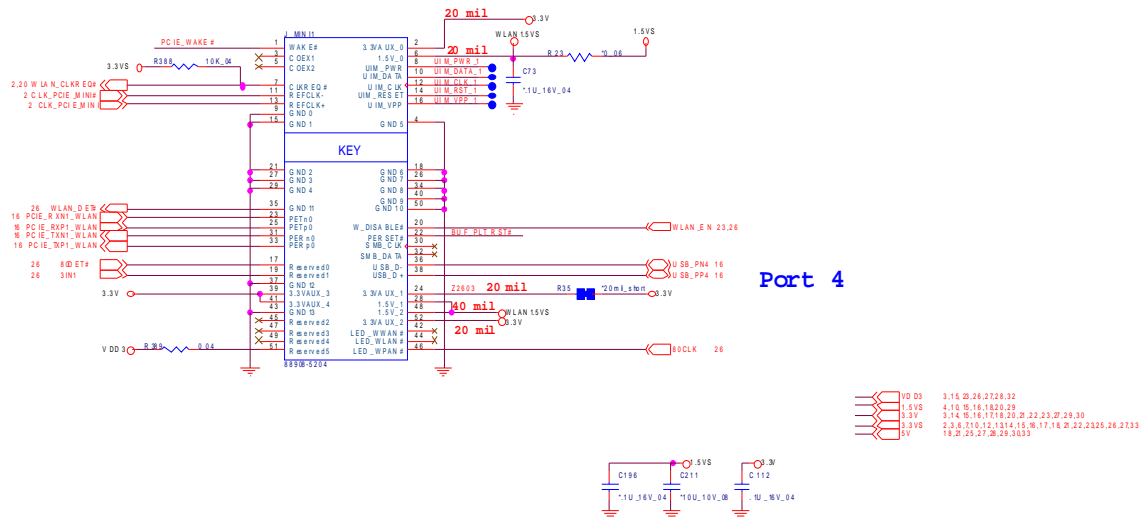
NEW CARD, MINI PCIE

Sheet 19 of 42  
NEW CARD, MINI  
PCIE

NEW CARD







MINI CARD



## B.Schematic Diagrams

### 3G POWER

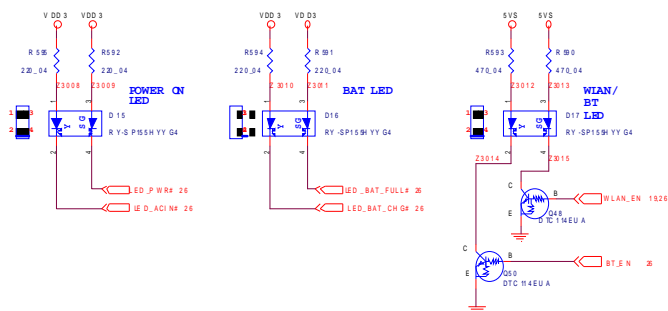
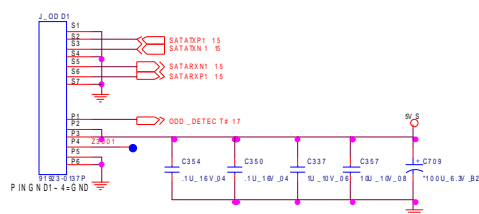
From H8 default HI

	1.5V	4, 10, 15, 16, 18, 19, 29
	3.3V	3, 14, 15, 16, 17, 18, 19, 21, 22, 23, 27, 29, 30
	3.3V	2, 3, 6, 7, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 25, 26, 27, 30
	5V	14, 15, 18, 21, 28, 25, 27



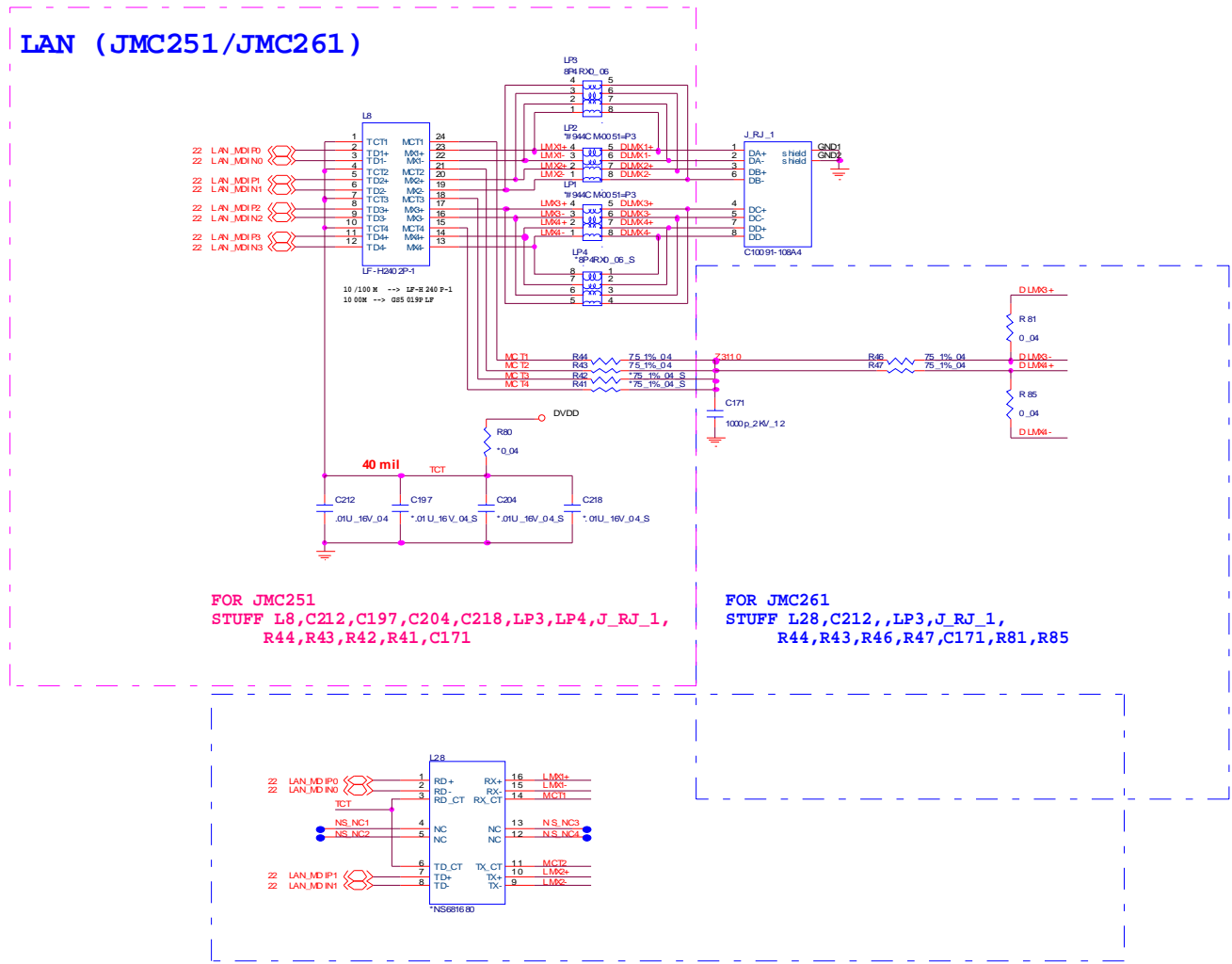


**SATA ODD**

[illegible]

VD D3	3, 15, 19, 26, 27, 28, 32
VIN	14, 27, 28, 29, 30, 32
1.5VS	4, 10, 15, 16, 18, 19, 20, 29
3.3V	3, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, 29, 30
3.3VS	2, 3, 6, 7, 10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 25, 26, 27, 33
5V	18, 21, 25, 27, 28, 29, 30, 33
5VS	14, 15, 18, 21, 25, 27
VD D5	27, 28

LAN(JMB261)

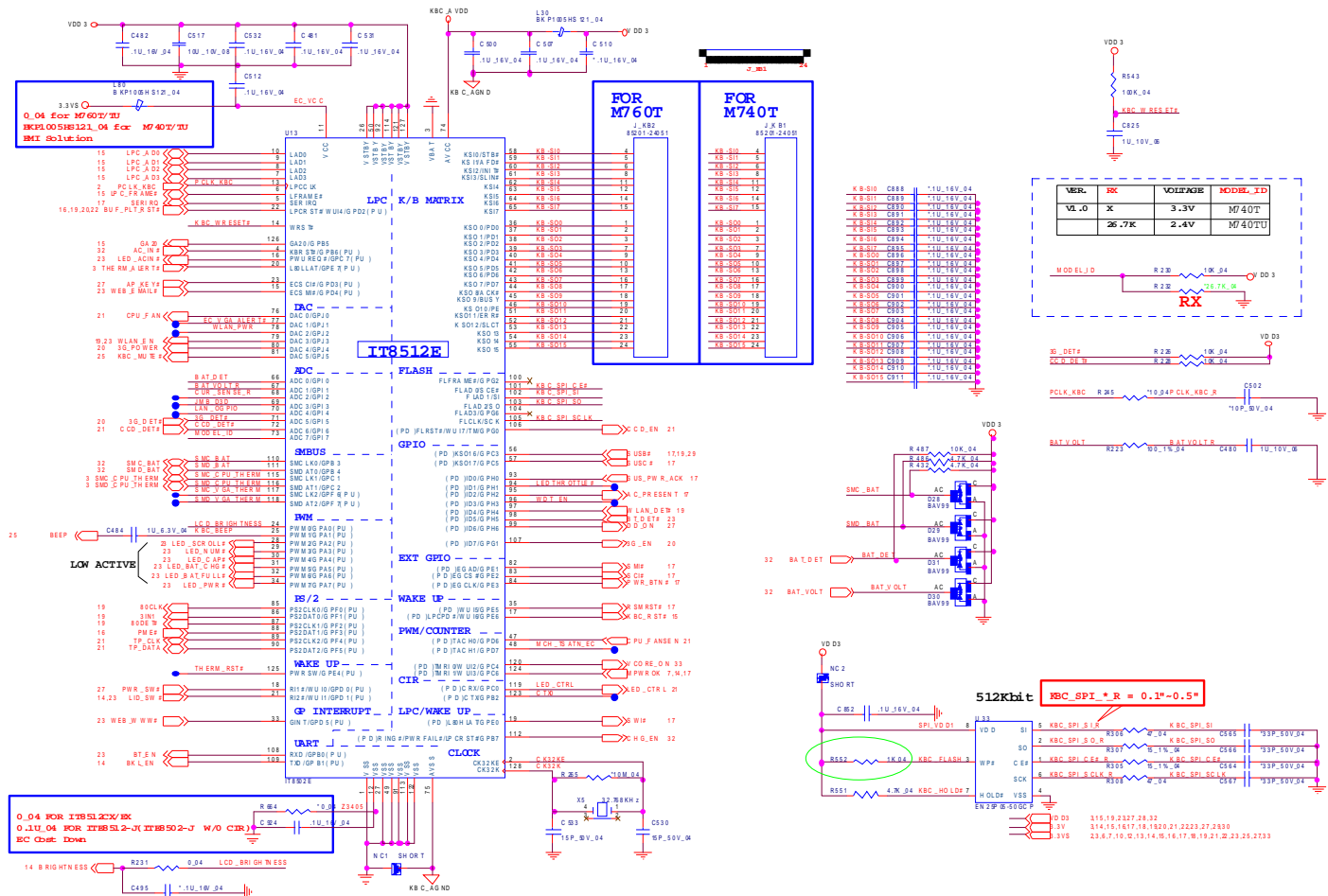


Sheet 24 of 42  
LAN(JMB261)



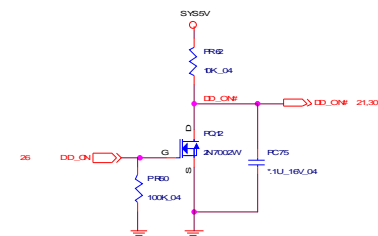
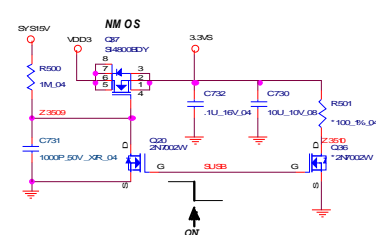
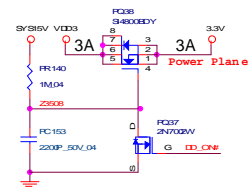
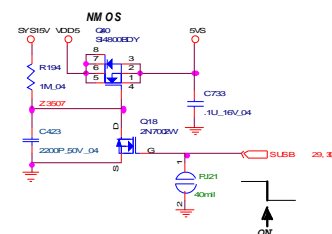
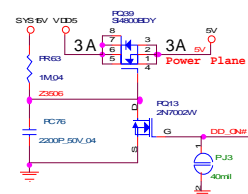
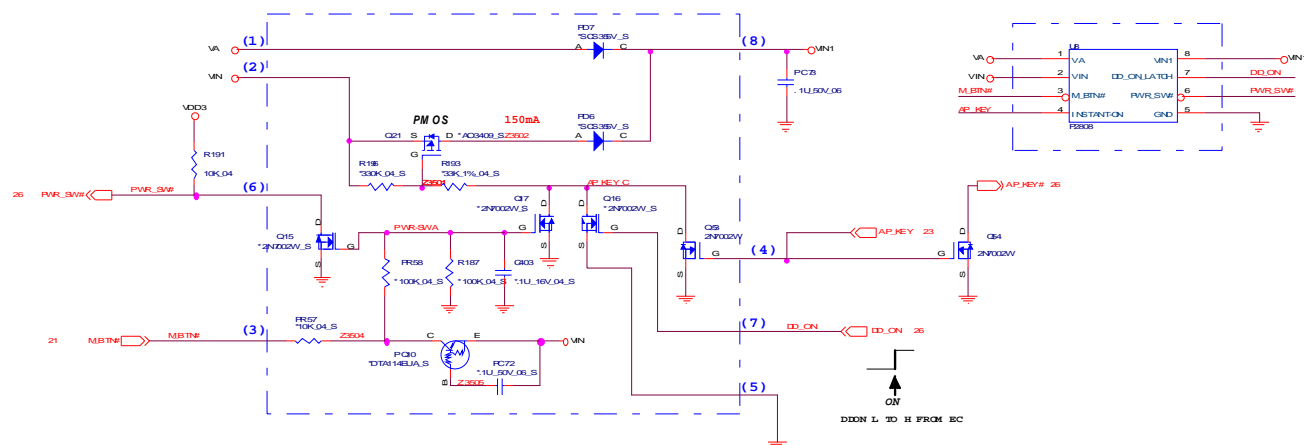


# KPC-ITE IT8502E



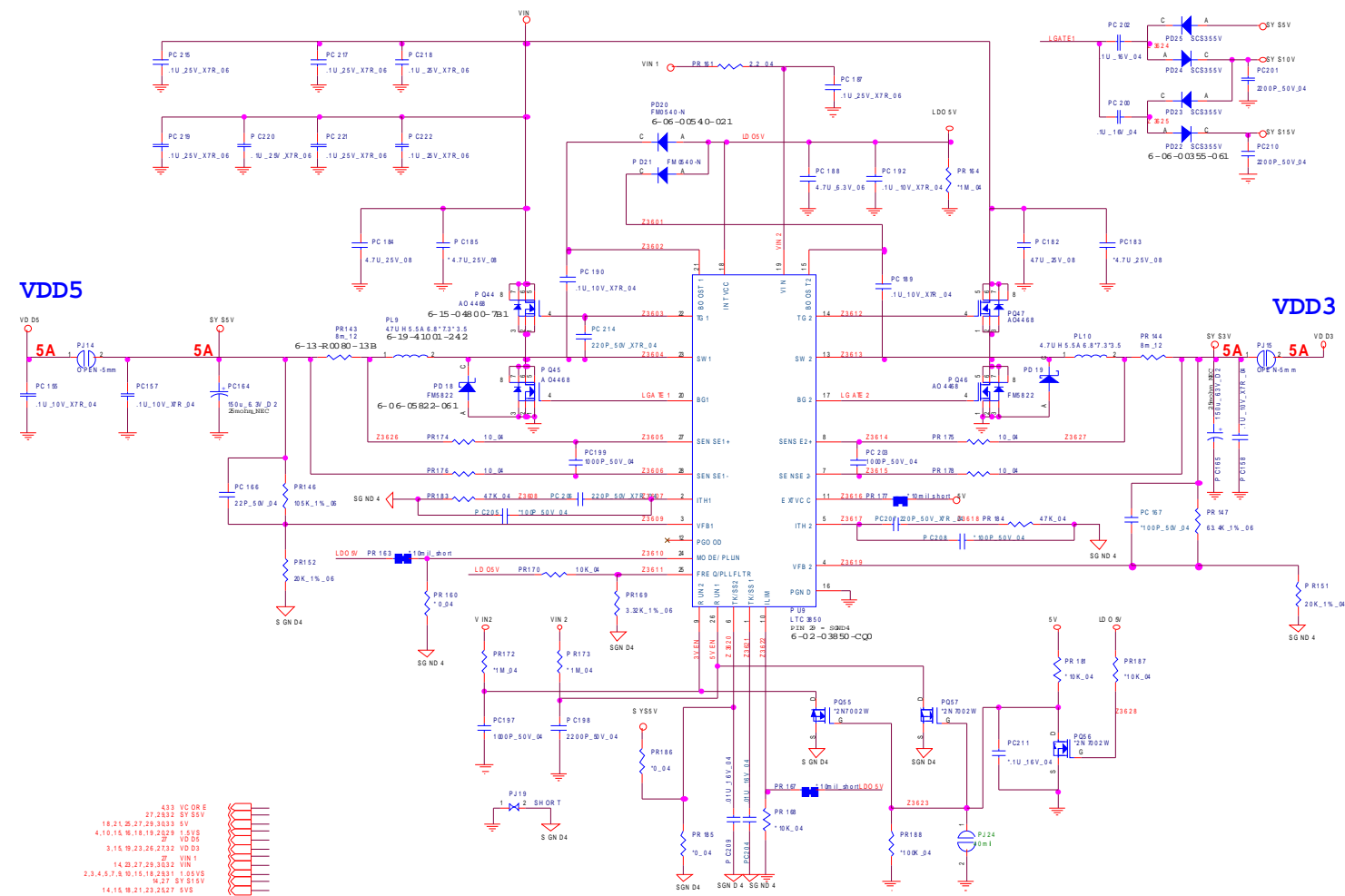
## B.Schematic Diagrams

Sheet 27 of 42  
5VS, 3VS, 3.3VM,  
1.05VS, V1N1



1	0.05V	2,3,4,5,7,9,10,15,18,29,31
2	0.30V	28,29,32
3	0V	18,21,25,26,29,30,33
4	3.3V	3,14,15,16,17,18,19,20,21,22,23,29,30
5	VINH	28
6	VIN	14,23,28,29,30,32
7	VA	32
8	VDD6	28
9	VDD3	3,15,19,23,26,28,32
10	0V5	14,15,18,21,23,25
11	3.3V5	2,3,6,7,10,12,13,14,15,16,17,18,19,21,23,25,26,30
12	0.30V	14,29

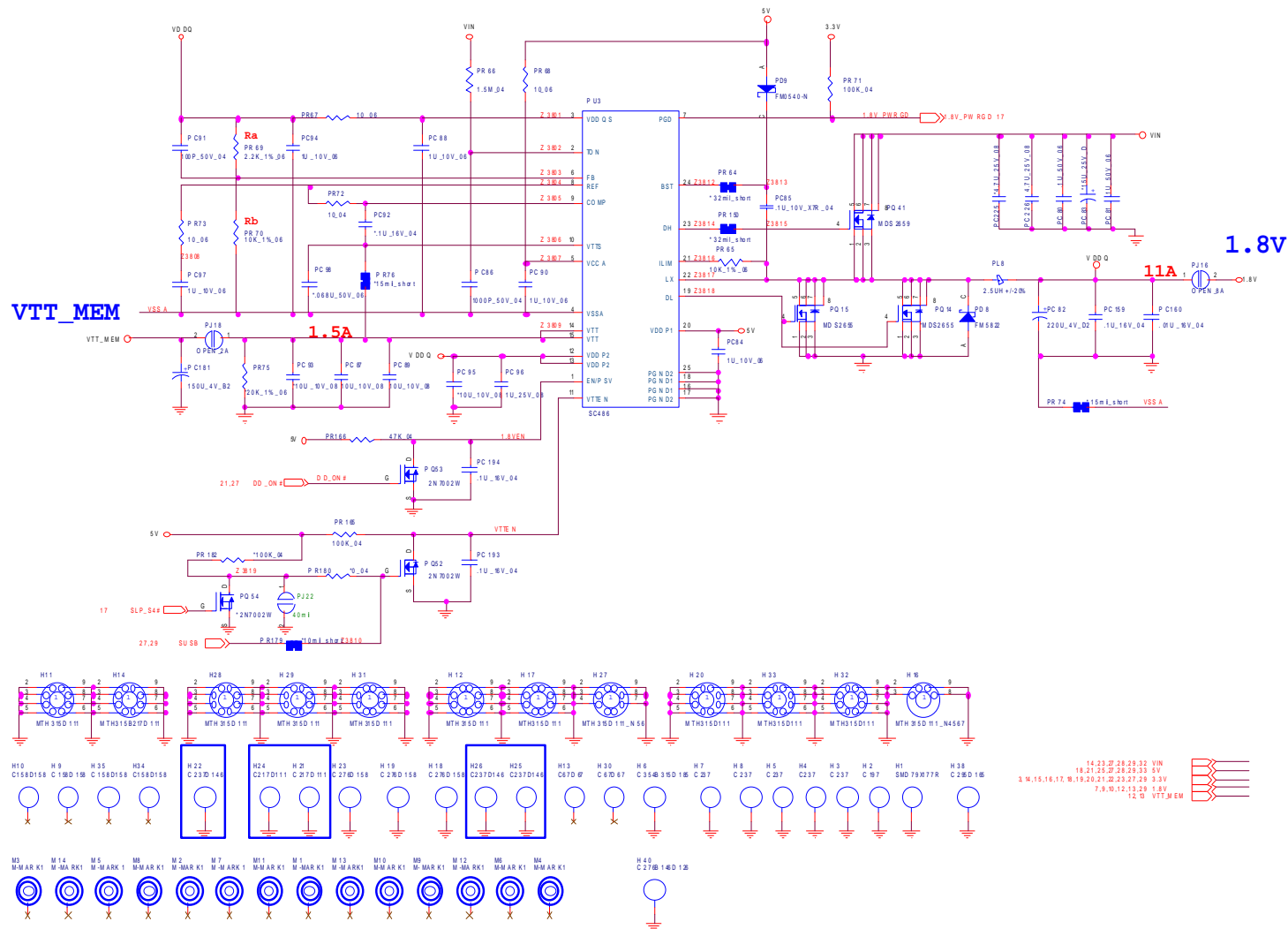
# POWER 3.3V/5V



Sheet 28 of 42  
POWER 3.3V/5V



## POWER 1.8V/0.9V

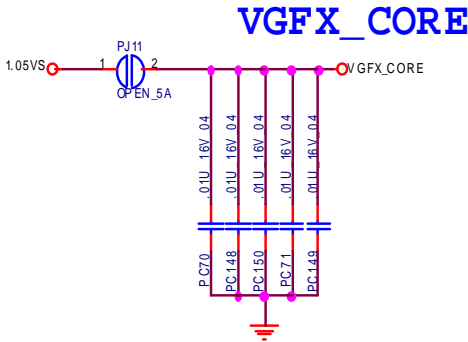


## B.Schematic Diagrams

Sheet 30 of 42  
POWER 1.8V/0.9V

POWER GPU/NVVDD

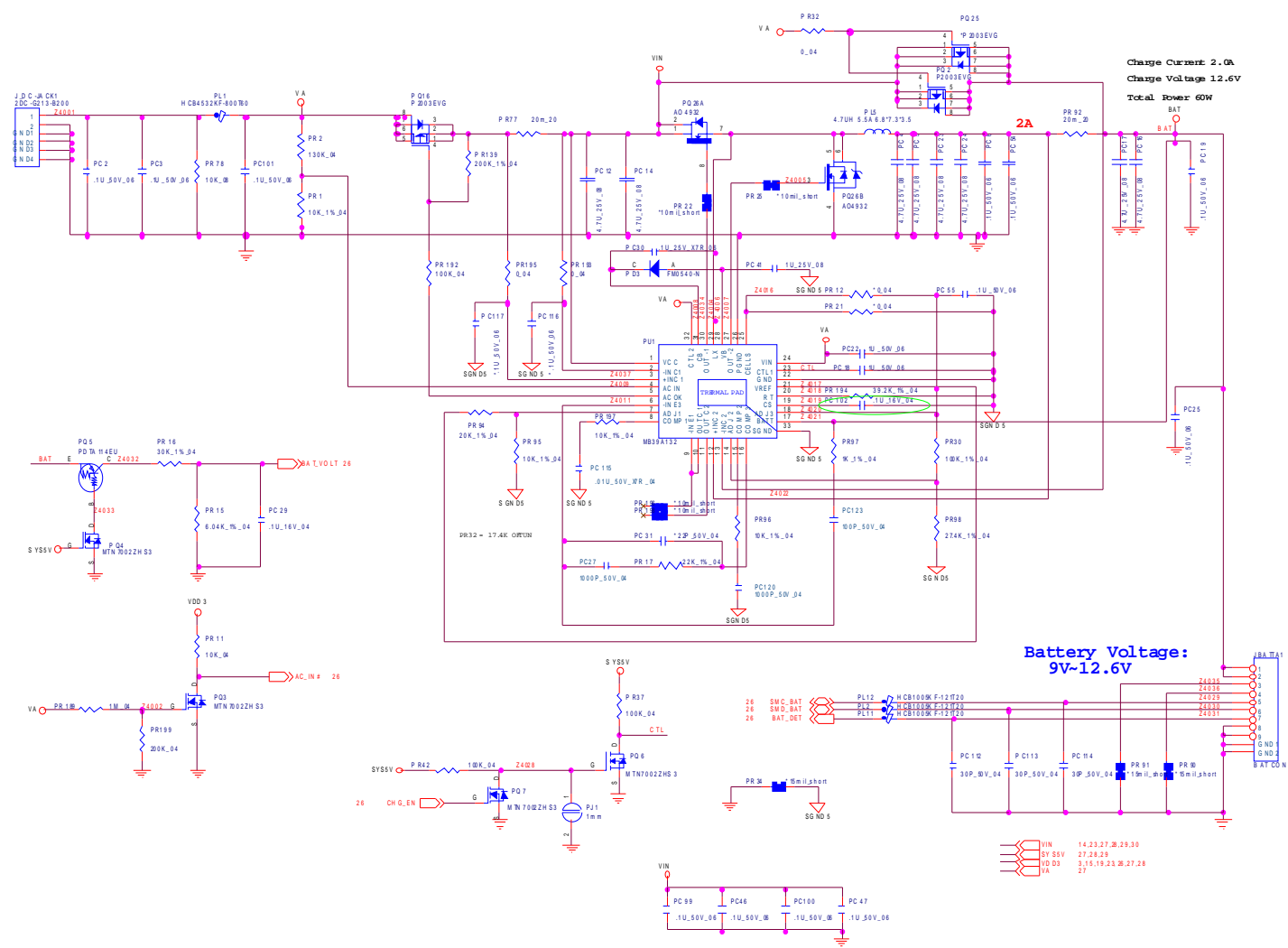
Sheet 31 of 42  
POWER GPU/  
NVVDD



2,3,4,5,7,9,10,15,18,29 1.05V/S

9 VGFX\_CORE

AC\_IN, CHARGE



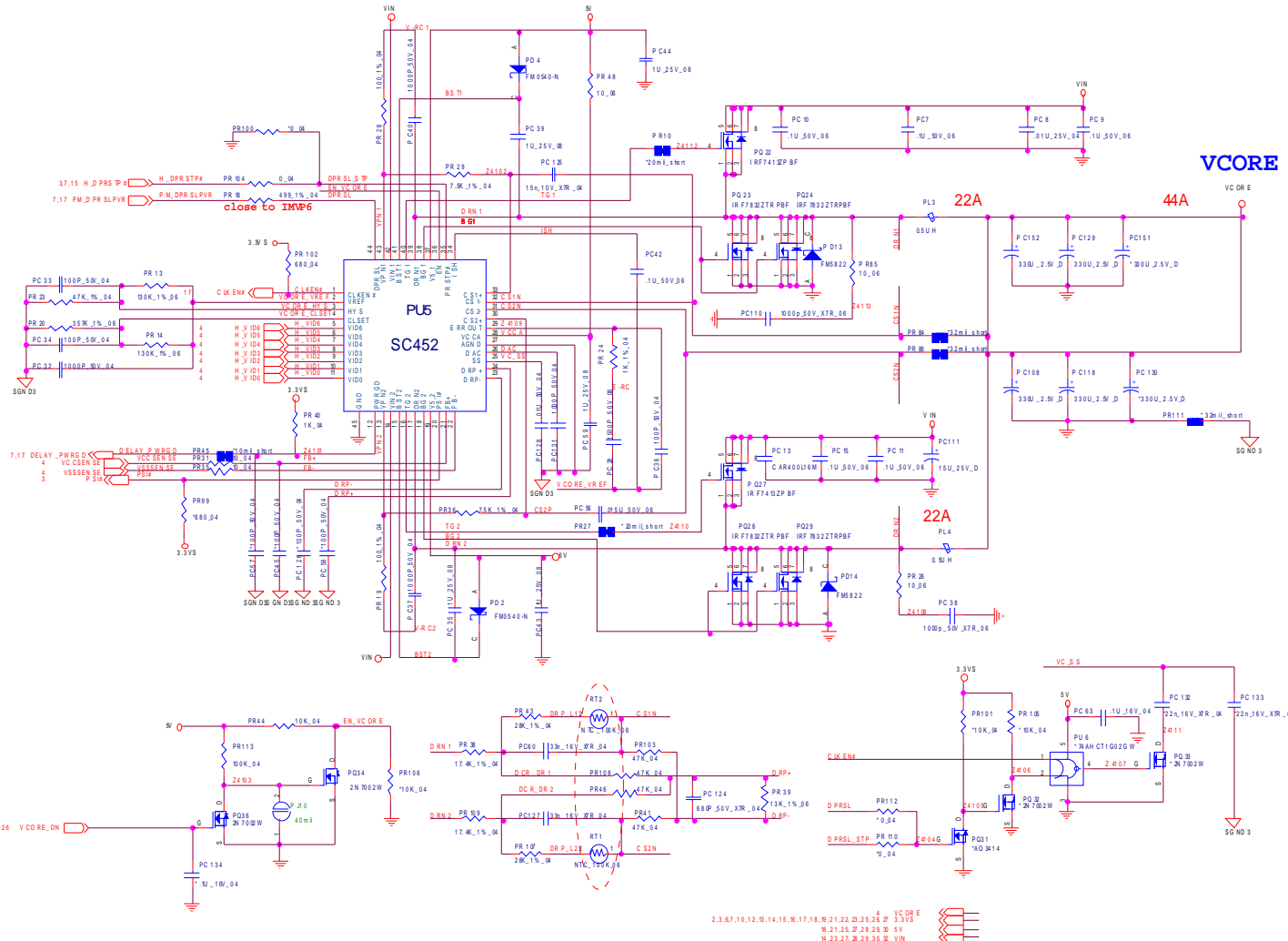
Sheet 32 of 42  
AC\_IN, CHARGE



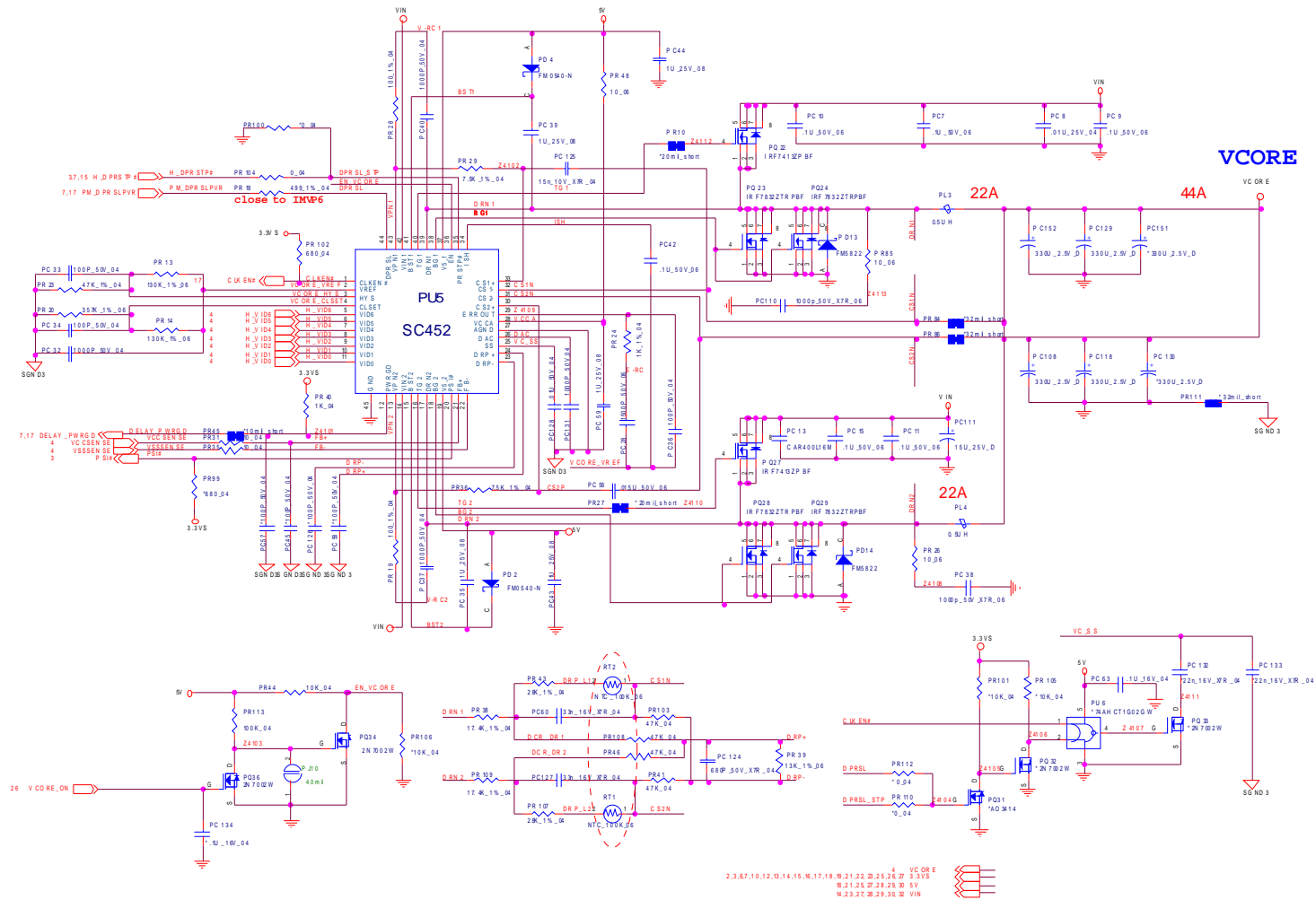
Schematic Diagrams

VCORE

Sheet 33 of 42  
VCORE



## ODD BOARD FOR M760T



**Sheet 34 of 42**  
**CLICK FINGER**  
**BOARD FOR M77**

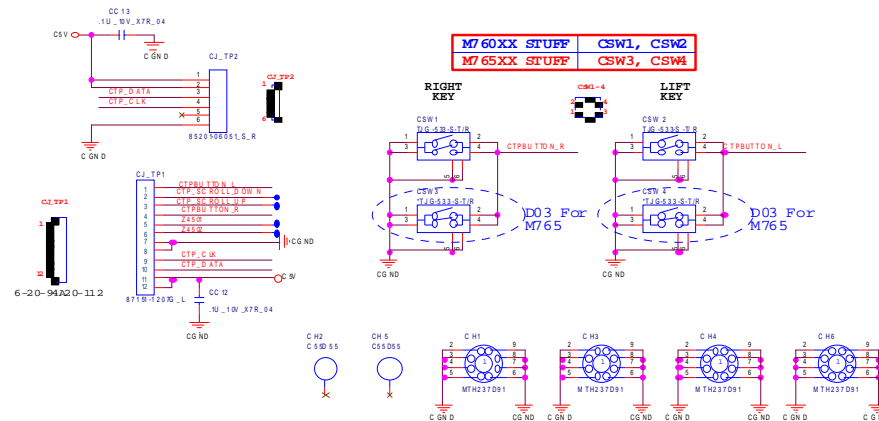
## B. Schematic Diagrams

## Schematic Diagrams

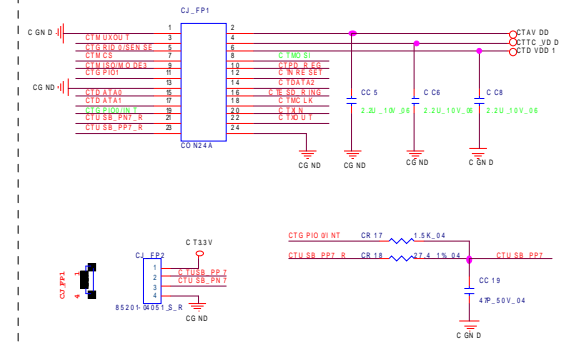
## CLICK FINGER BOARD FOR M77

Sheet 35 of 42  
CLICK FINGER  
BOARD FOR M77

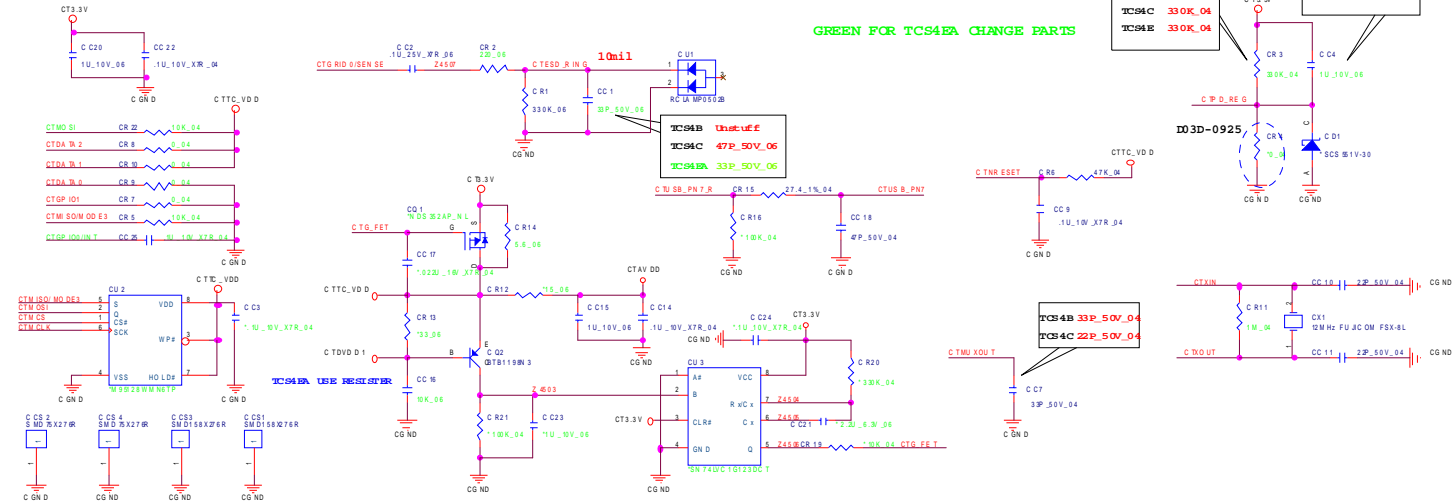
C C K B O R D



F N E B O R D

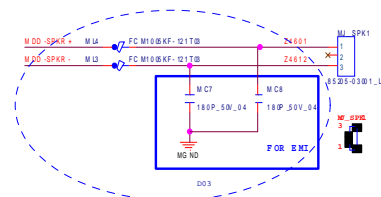


GREEN FOR TCS4EA CHANGE PARTS

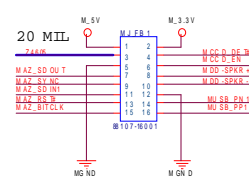


# MULTI FUNCTION BOARD

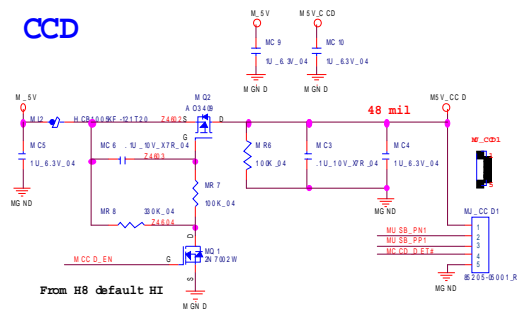
SPEAKER CONNECTOR



MULTI I/O CONN



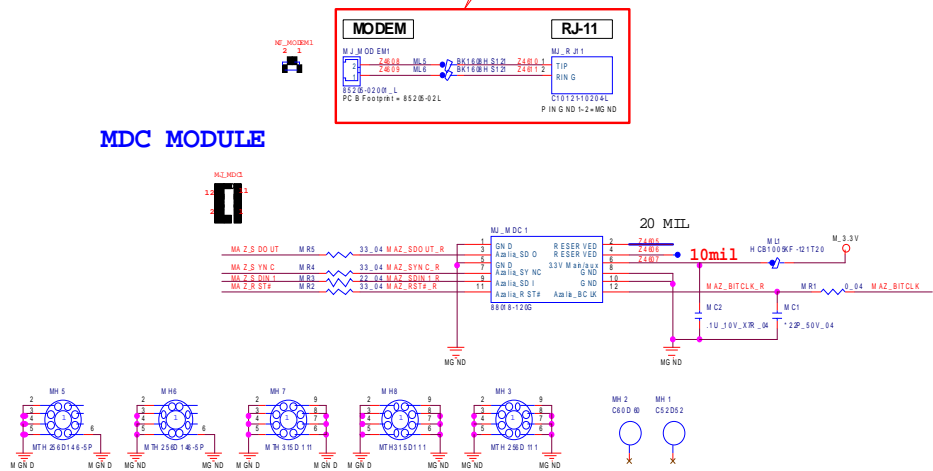
CCD



RJ-11

FAR AWAY ANOTHER PARTS >2.5mm

MDC MODULE



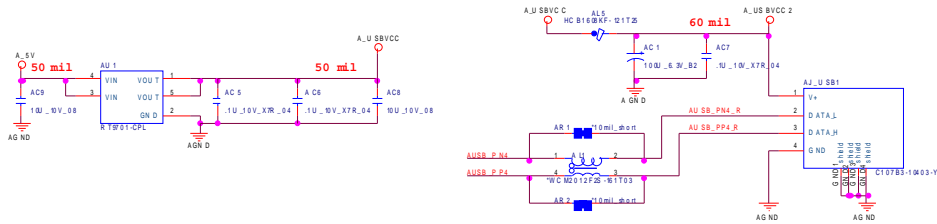
Sheet 36 of 42  
MULTI FUNCTION  
BOARD

Schematic Diagrams

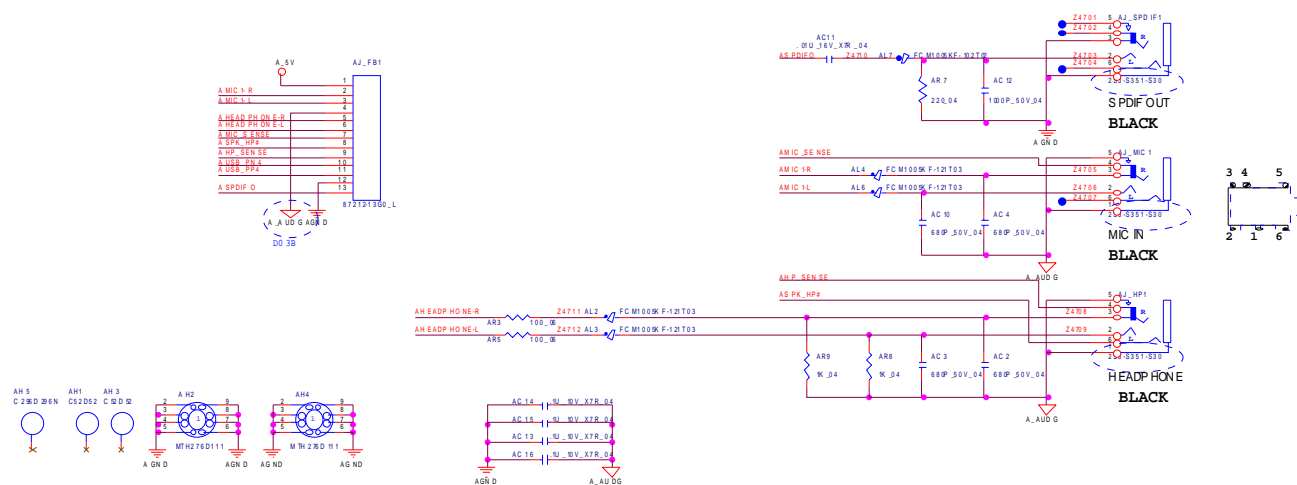
AUDIO BOARD

Sheet 37 of 42  
AUDIO BOARD

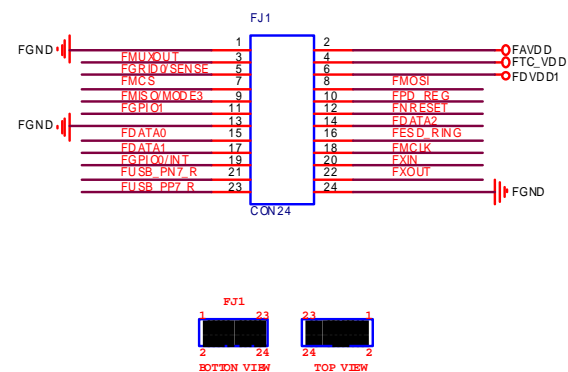
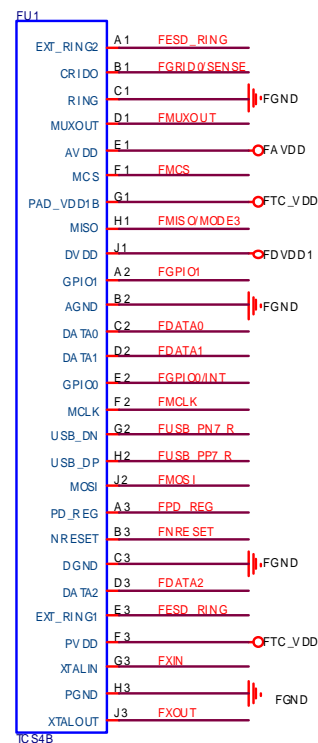
USB PORT



AUDIO JACK



# POWER SWITCH BOARD FOR M76



Sheet 38 of 42  
POWER SWITCH  
BOARD FOR M76

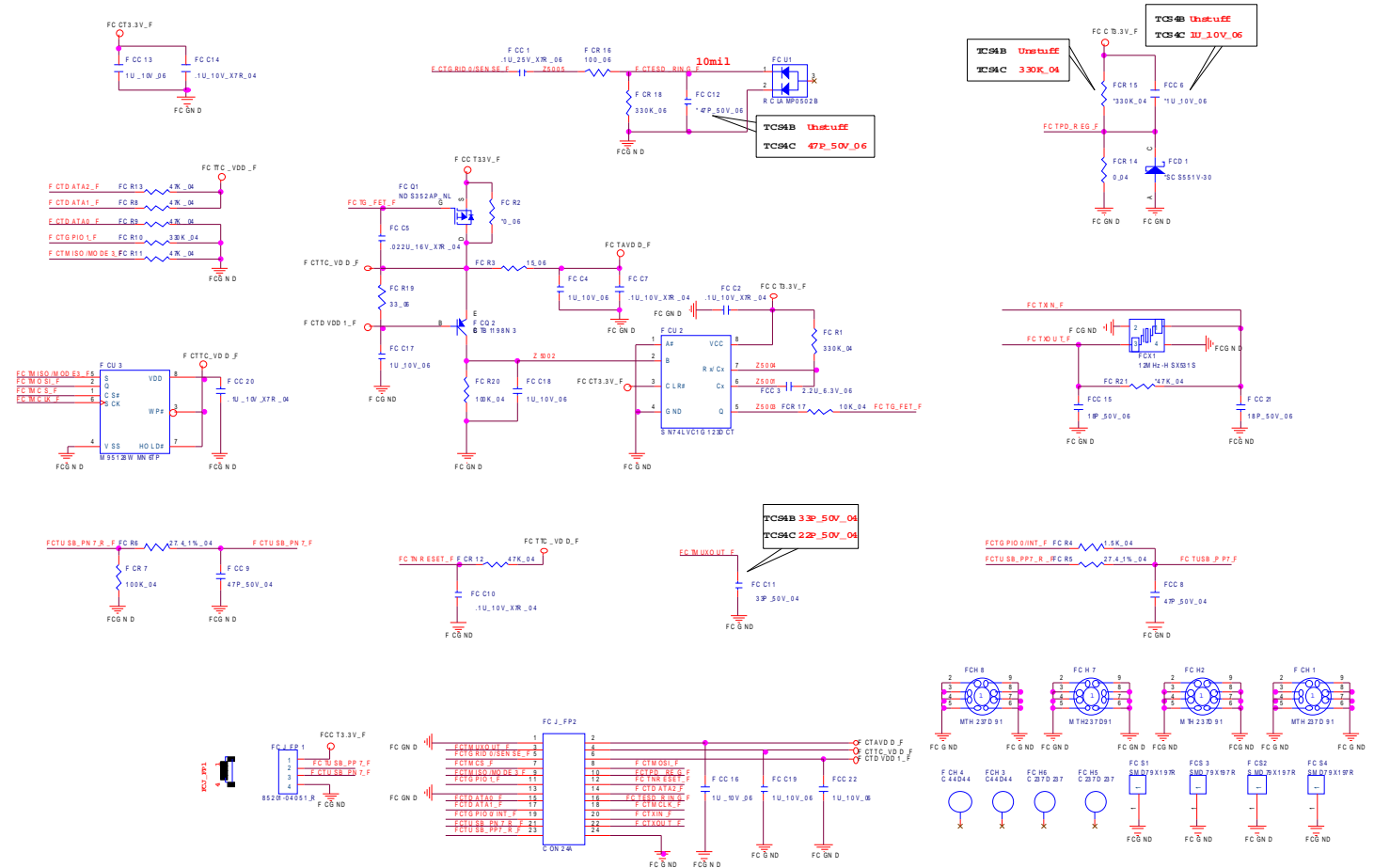
## POWER SW & POWER LED FOR M74

The image contains several schematic diagrams for electronic components:

- POWER BUTTON:** A schematic for a push-button switch labeled SMSW1 (TUG533-S-T/R). It shows a 4-pin component with pins 1 and 3 connected to a common ground (SMGND), and pins 2 and 4 connected to a signal line (SM\_BTN#).
- POWER SWITCH LED:** A schematic for an LED switch. It shows a 3.3V supply (SM\_3.3VS) connected to a 20mil trace, then a resistor (SMR1, 220\_04), and a 20mil trace to the anode of an LED (SMD1, KFC-3216QBC-C). The cathode of the LED is connected to ground (SMGND). A 20mil trace also connects the 3.3V supply to a capacitor (SMC1, 10uF) connected to ground.
- Capacitors:**
  - SMH5 (C237B52D52N):** A capacitor connected to ground (SMGND).
  - SMH2 (C52D52):** A capacitor connected to ground (SMGND).
  - SMH3 (C52D52):** A capacitor connected to ground (SMGND).
  - SMH1 (MIH237D87) and SMH4 (MIH237D87):** Two identical capacitors connected to ground (SMGND).
  - SMS1 (C126):** A capacitor connected to ground (SMGND).

# FINGER BOARD FOR M74

## FINGER BOARD FORM 4



Sheet 40 of 42  
FINGER BOARD  
FOR M74

B.Schematic Diagrams

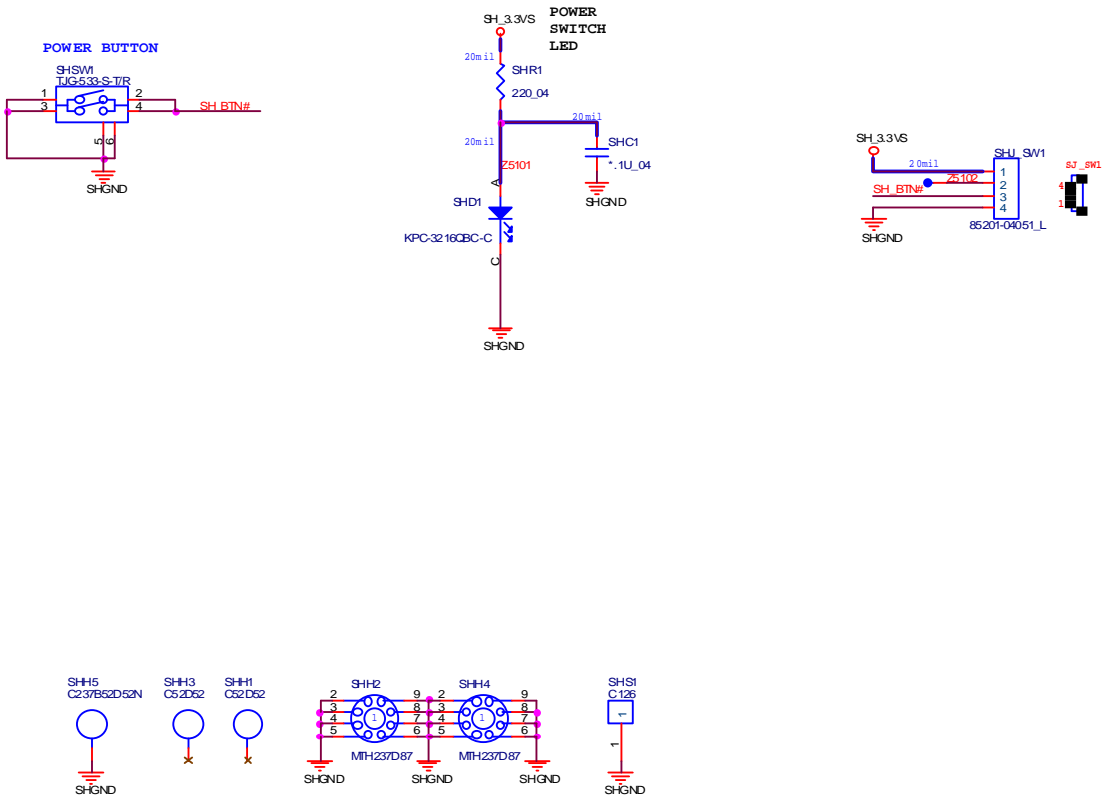


Schematic Diagrams

POWER SWITCH BOARD FOR M76

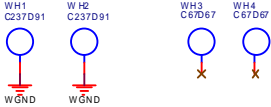
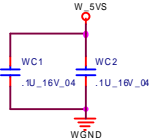
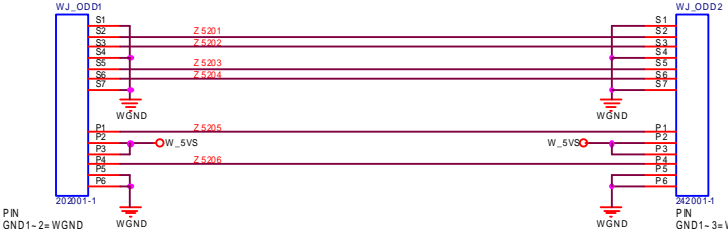
POWER SW & POWER LED FOR M76

Sheet 41 of 42  
POWER SWITCH  
BOARD FOR M76



# EXTERNAL ODD BOARD FOR W76

ODD BOARD FOR W76



Sheet 42 of 42  
EXTERNAL ODD  
BOARD FOR W76



# Appendix C: Updating the FLASH ROM BIOS

## To update the FLASH ROM BIOS you must:

- Download the BIOS update from the web site.
- Unzip the files onto a bootable CD/DVD/USB Flash Drive.
- Reboot your computer from an external CD/DVD/USB Flash Drive.
- Use the flash tools to update the flash BIOS using the commands indicated below.
- Restart the computer booting from the HDD and press **F2** at startup enter the BIOS.
- Load setup defaults from the BIOS and save the default settings and exit the BIOS to restart the computer.
- After rebooting the computer you may restart the computer again and make any required changes to the default BIOS settings.

## Download the BIOS

1. Go to [www.clevo.com.tw](http://www.clevo.com.tw) and point to **E-Services** and click **E-Channel**.
2. Use your user ID and password to access the appropriate download area (BIOS), and download the latest BIOS files (the BIOS file will be contained in a batch file that may be run directly once unzipped) for your computer model (see sidebar for important information on BIOS versions).

## Unzip the downloaded files to a bootable CD/DVD/ or USB Flash drive

1. Insert a bootable CD/DVD/USB flash drive into the CD/DVD drive/USB port of the computer containing the downloaded files.
2. Use a tool such as Winzip or Winrar to unzip all the BIOS files and refresh tools to your bootable CD/DVD/USB flash drive (you may need to create a bootable CD/DVD with the files using a 3rd party software).

## Set the computer to boot from the external drive

1. With the bootable CD/DVD/USB flash drive containing the BIOS files in your CD/DVD drive/USB port, restart the computer and press **F2** (in most cases) to enter the BIOS.
2. Use the arrow keys to highlight the **Boot** menu.
3. Use the “+” and “-” keys to move boot devices up and down the priority order.
4. Make sure that the CD/DVD drive/USB flash drive is set first in the boot priority of the BIOS.
5. Press **F10** to save any changes you have made and exit the BIOS to restart the computer.



### BIOS Version

Make sure you download the latest correct version of the BIOS appropriate for the computer model you are working on.

**You should only download BIOS versions that are V1.01.XX or higher as appropriate for your computer model.**

Note that BIOS versions are not backward compatible and therefore **you may not downgrade your BIOS to an older version** after upgrading to a later version (e.g if you upgrade a BIOS to ver 1.01.05, you **MAY NOT** then go back and flash the BIOS to ver 1.01.04).

## BIOS Update

---

### Use the flash tools to update the BIOS

1. Make sure you are not loading any memory management programs such as HIMEM by holding the **F8** key as you see the message “**Starting MS-DOS**”. You will then be prompted to give “**Y**” or “**N**” responses to the programs being loaded by DOS. Choose “**N**” for any memory management programs.
2. You should now be at the DOS prompt e.g: `DISK C:\>` (C is the designated drive letter for the CD/DVD drive/USB flash drive).
3. **Type the following command** at the DOS prompt:

**C:\> XXX.bat**

4. The utility will then proceed to flash the BIOS.
5. You should then be prompted to press any key to restart the system or turn the power off, and then on again but make sure you remove the CD/DVD/USB flash drive from the CD/DVD drive/USB port before the computer restarts.

### Restart the computer (booting from the HDD)

1. With the CD/DVD/USB flash drive removed from the CD/DVD drive/USB port the computer should restart from the HDD.
2. Press **F2** as the computer restarts to enter the BIOS.
3. Use the arrow keys to highlight the **Exit** menu.
4. Select **Load Setup Defaults** (or press **F9**) and select “**Yes**” to confirm the selection.
5. Press **F10** to save any changes you have made and exit the BIOS to restart the computer.

### Your computer is now running normally with the updated BIOS

You may now enter the BIOS and make any changes you require to the default settings.