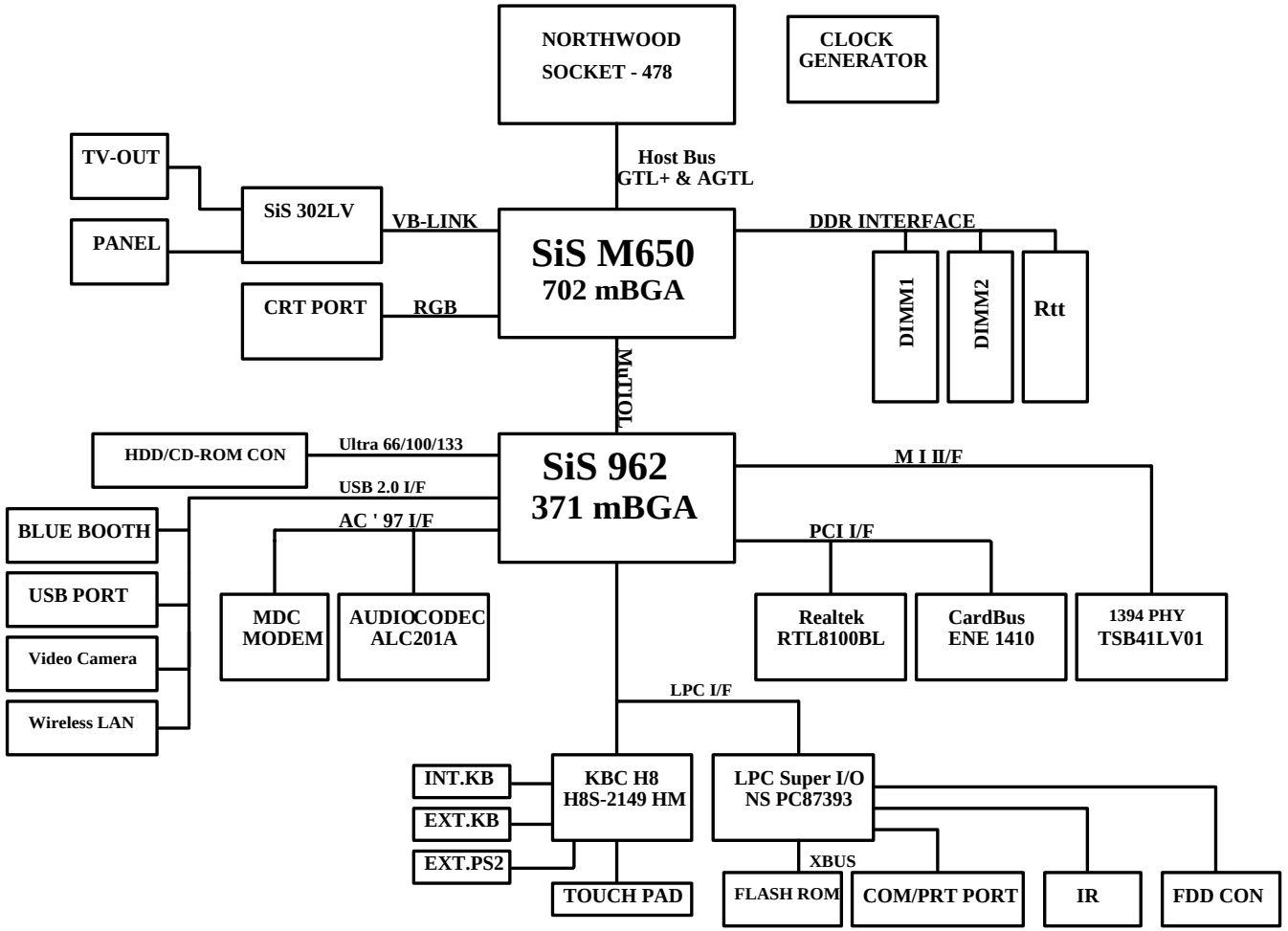
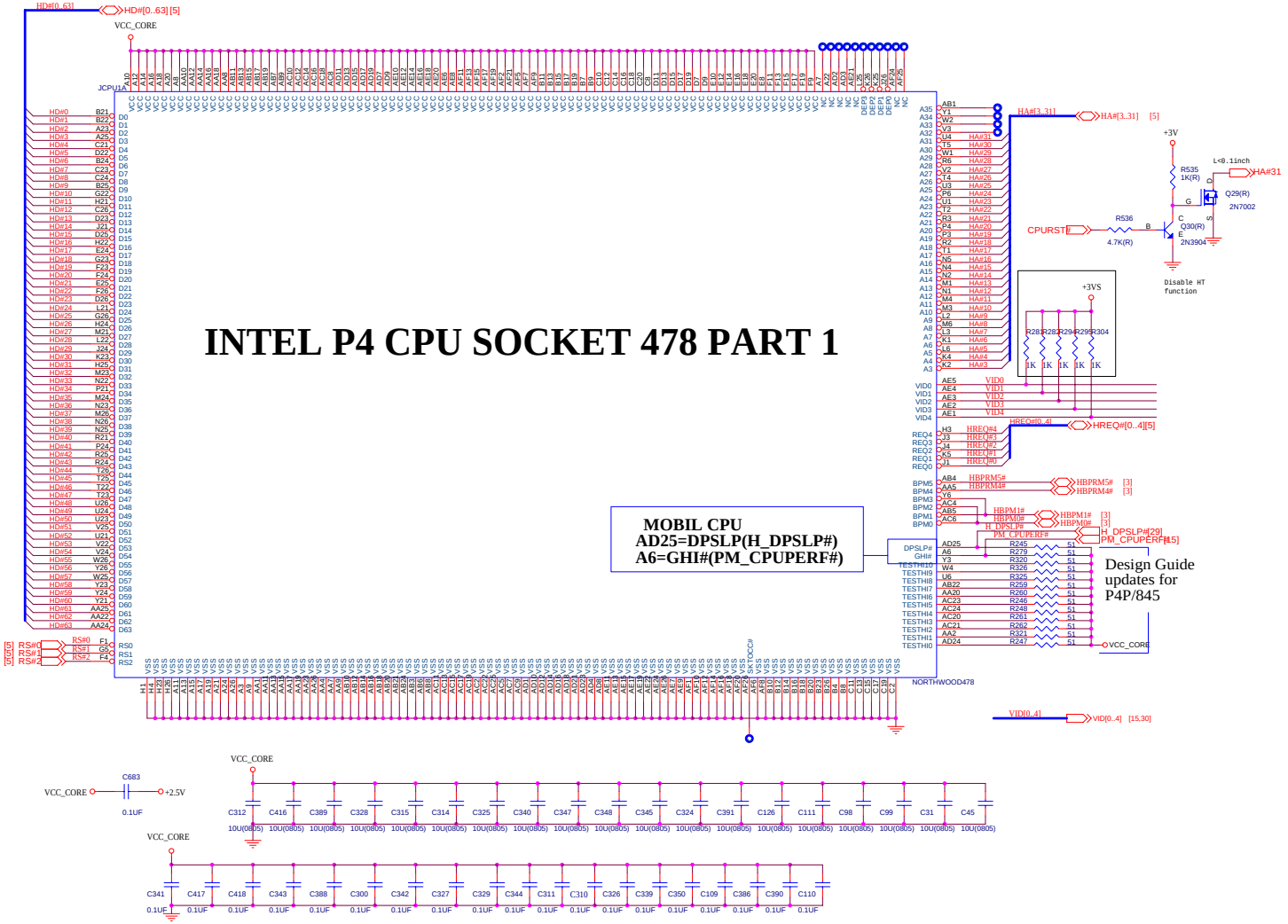
System Block Diagram

Sheet 1 of 35
System Block Diagram

D400 System Block Diagram



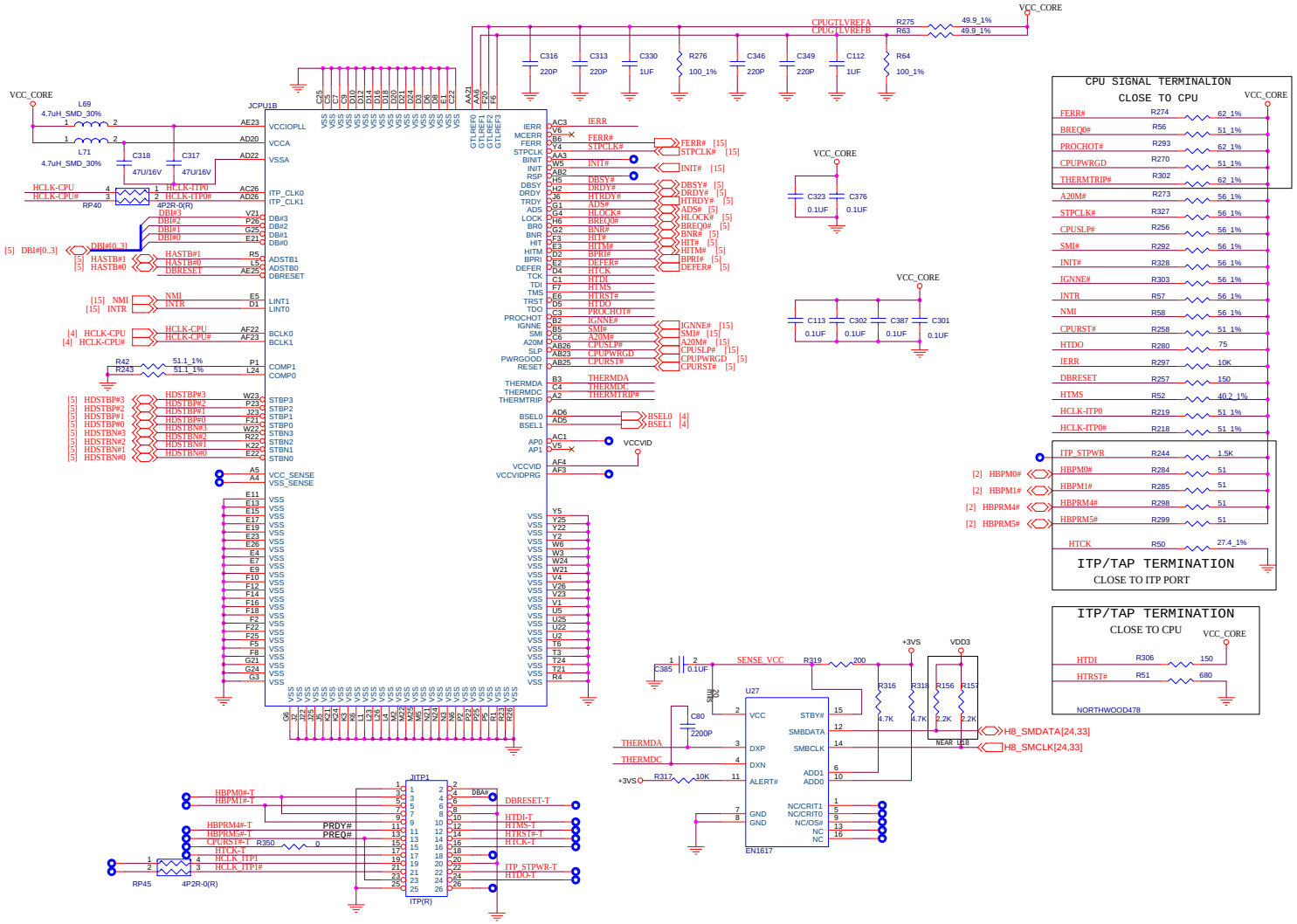
Socket 478 1 of 2



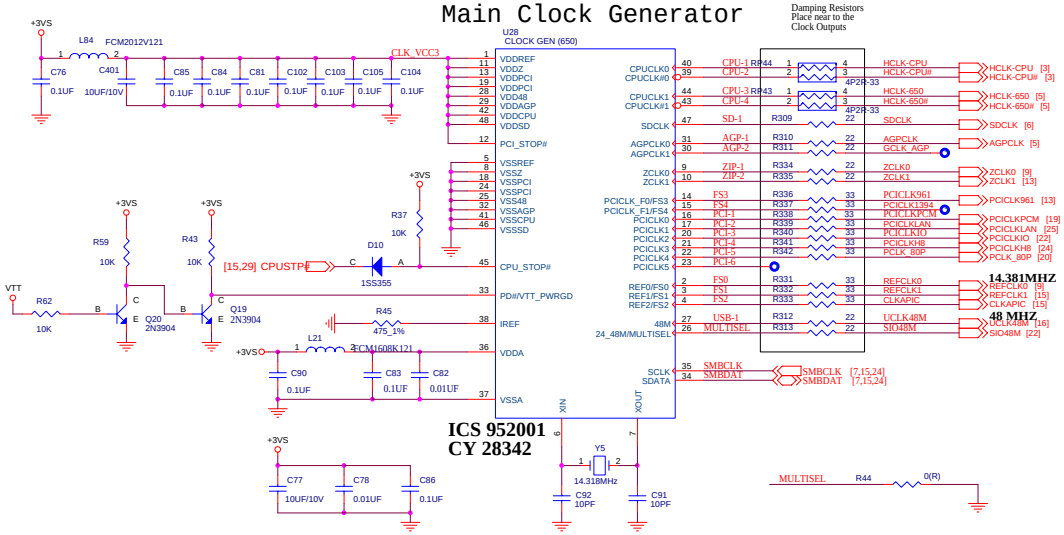
Sheet 2 of 35
Socket 478 1 of 2

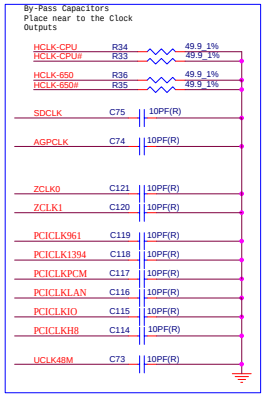
Socket 478 & ITP 2 of 2

Sheet 3 of 35
Socket 478 & ITP
2 of 2



Clock Generator





BSEL1	BSEL0	Function
L	L	
L	H	
H	L	
H	H	

FS4	FS3	FS2	FS1	FS0	CPU	SDRAM	ZCLK	AGP	PCI
0	0	0	1	1	100M	133M	66M	66M	33M
0	0	0	0	1	100M	100M	66M	66M	33M

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Clock Generator

M650 (Host/AGP) 1 of 4

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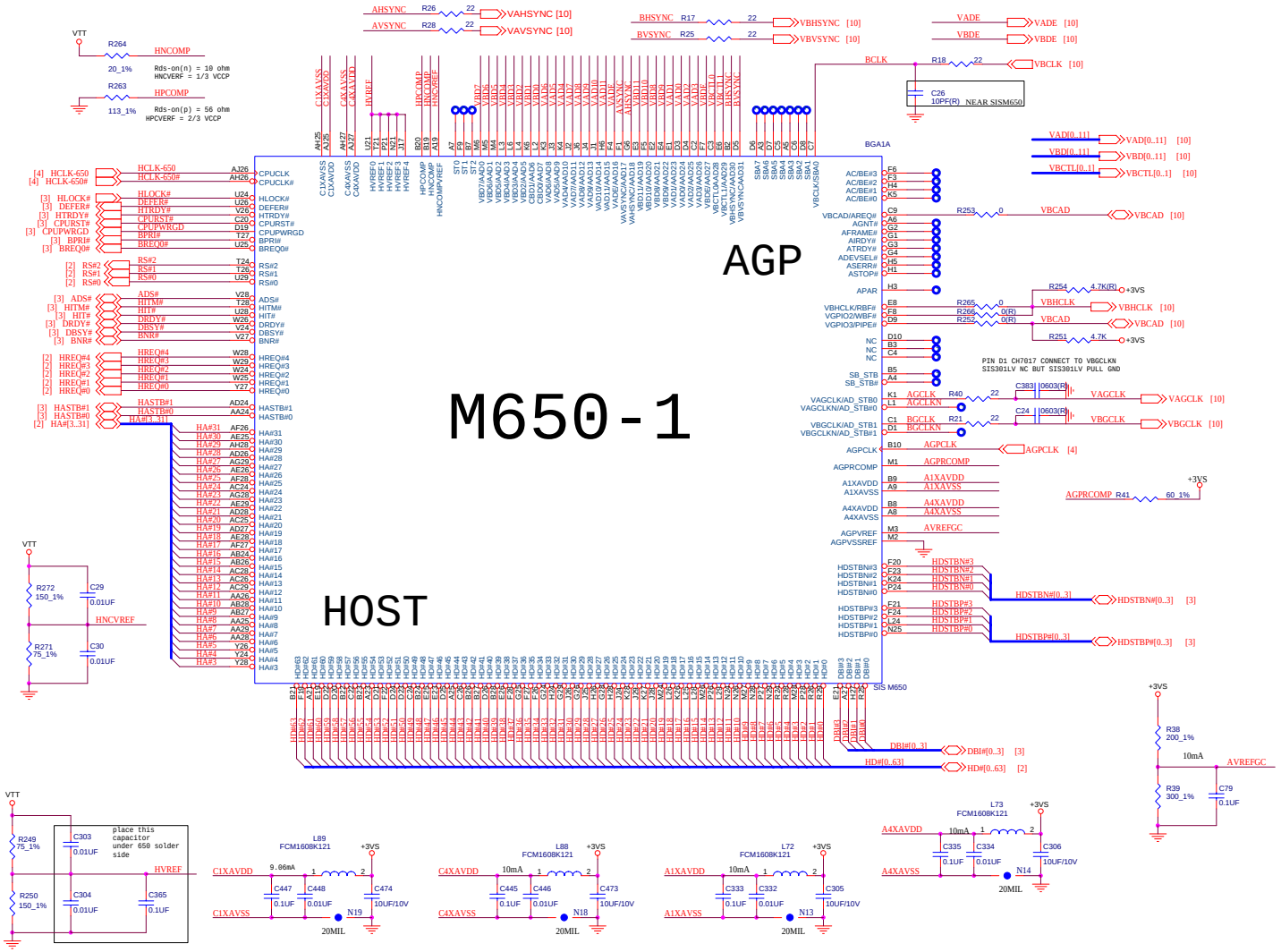
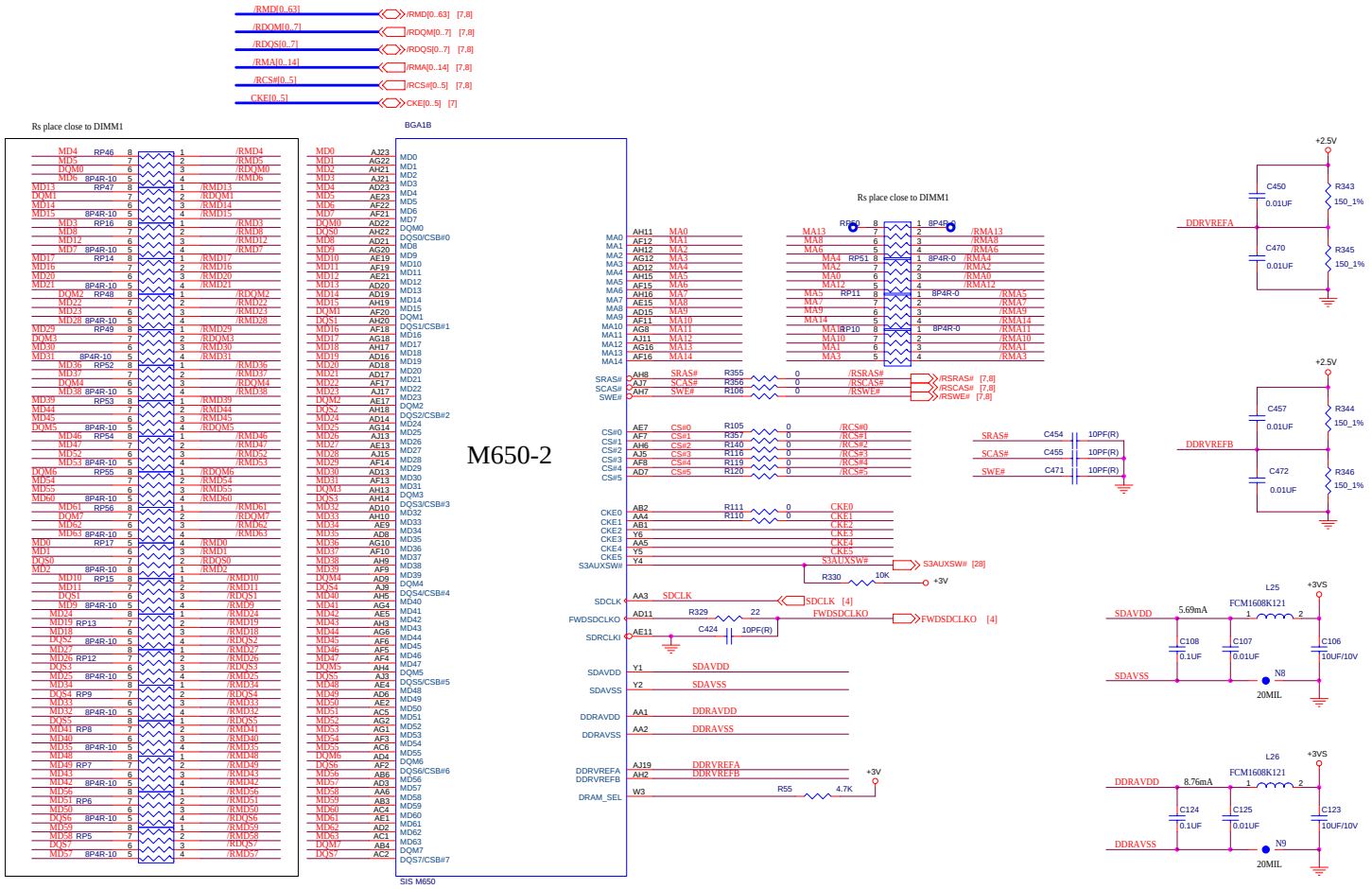
M650 (Host/AGP)
1 of 4



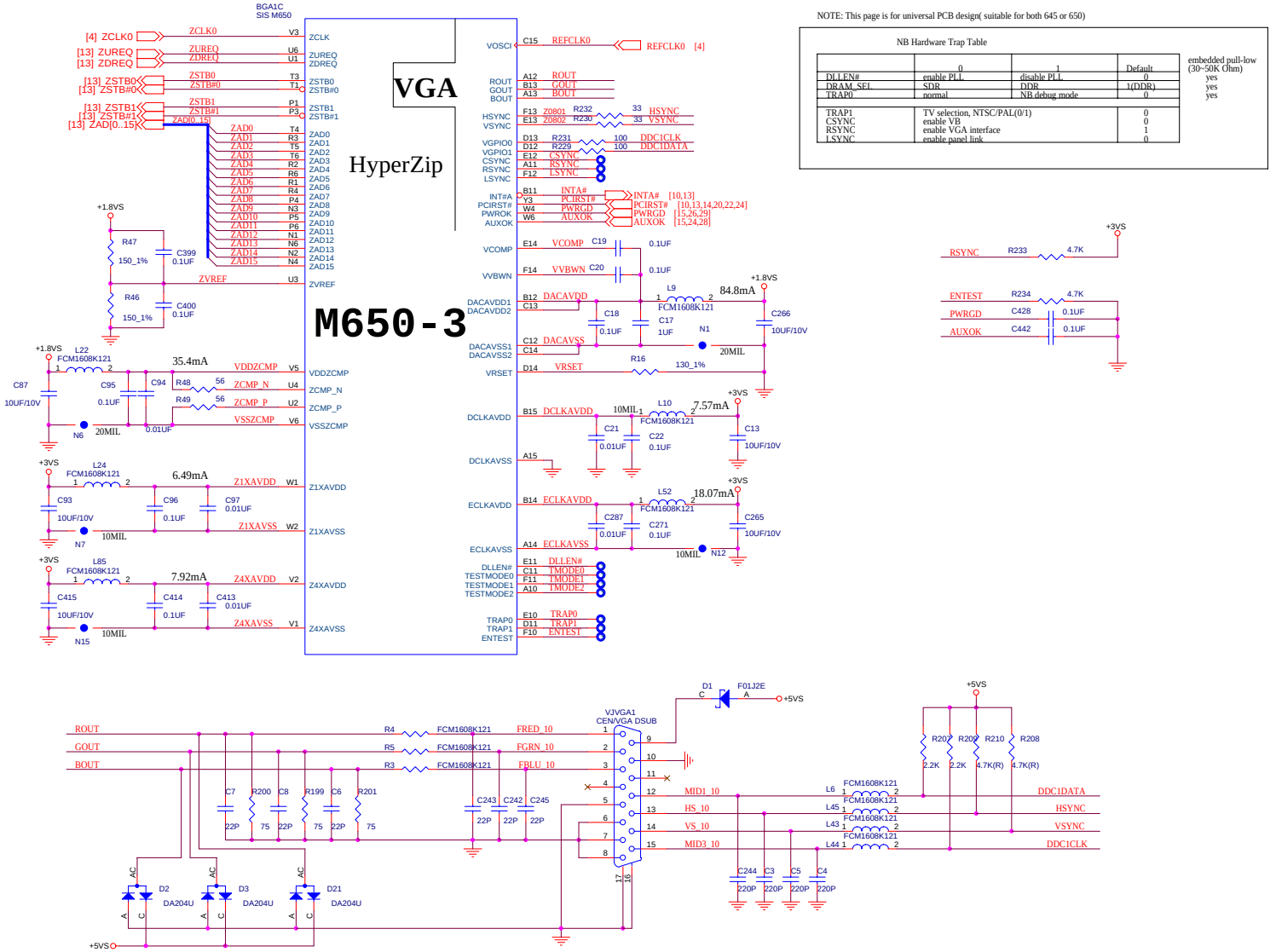
M650 (Memory for DDR) 2 of 4



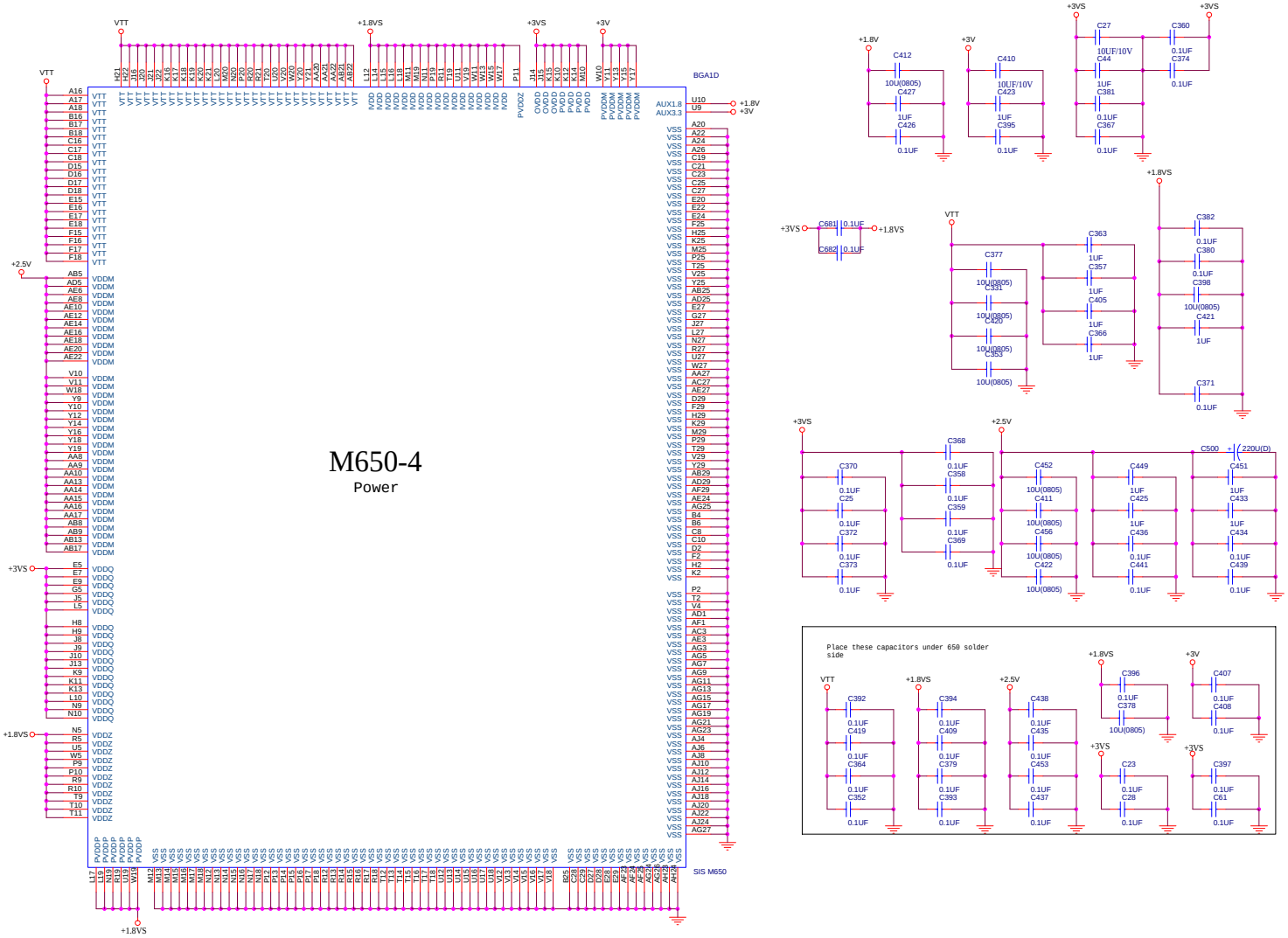
Sheet 6 of 35
M650
(Memory for DDR)
2 of 4

M650 (& CRT Out) 3 of 4

Sheet 7 of 35
M650 & CRT Out
3 of 4



M650 (Power) 4 of 4



Sheet 8 of 35
M650 (Power)
4 of 4

DDR Memory DIMM

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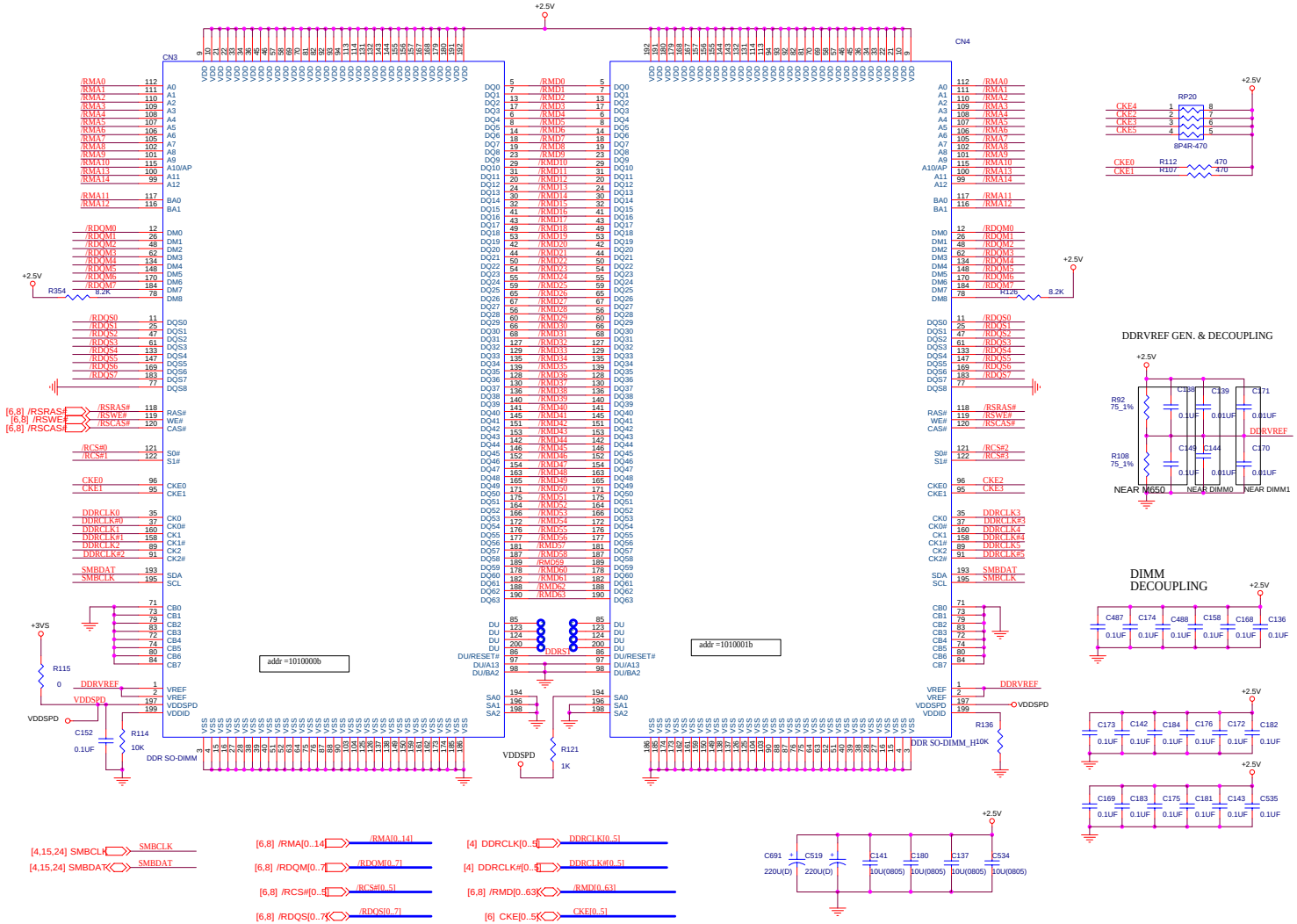
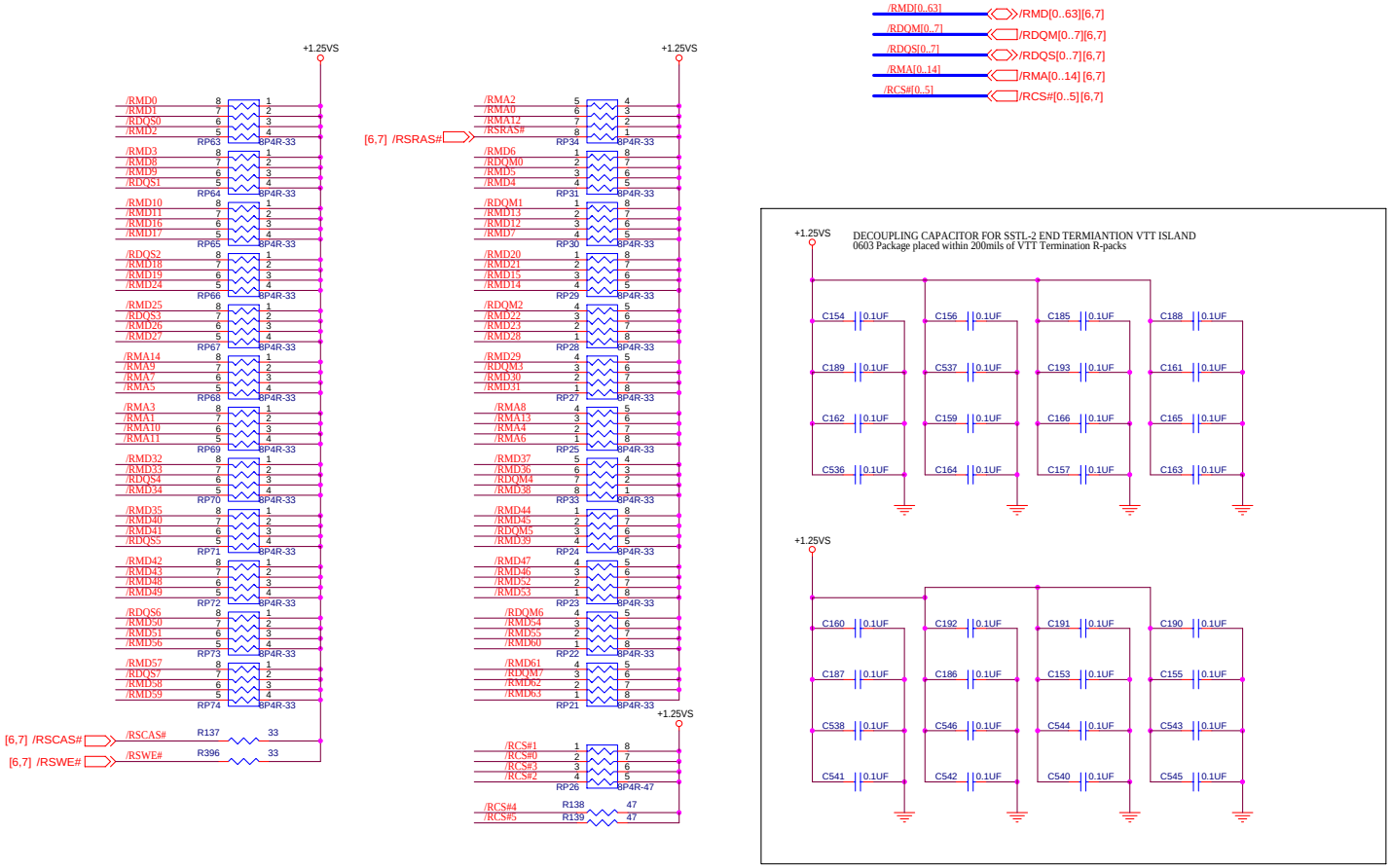
DDR Memory DIMM



DDR SSTL-2 Termination

SSTL-2 Termination Resistors

	DDR	Rs	Rtt
MD/DQM(/DQS)	SSTL-2	10	33
MA/Control	SSTL-2	0	33
CS	SSTL-2	0	47
CKE	OD 2.5V		



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DDR SSTL-2 Termination

LVDS Interface (SiS302LV)

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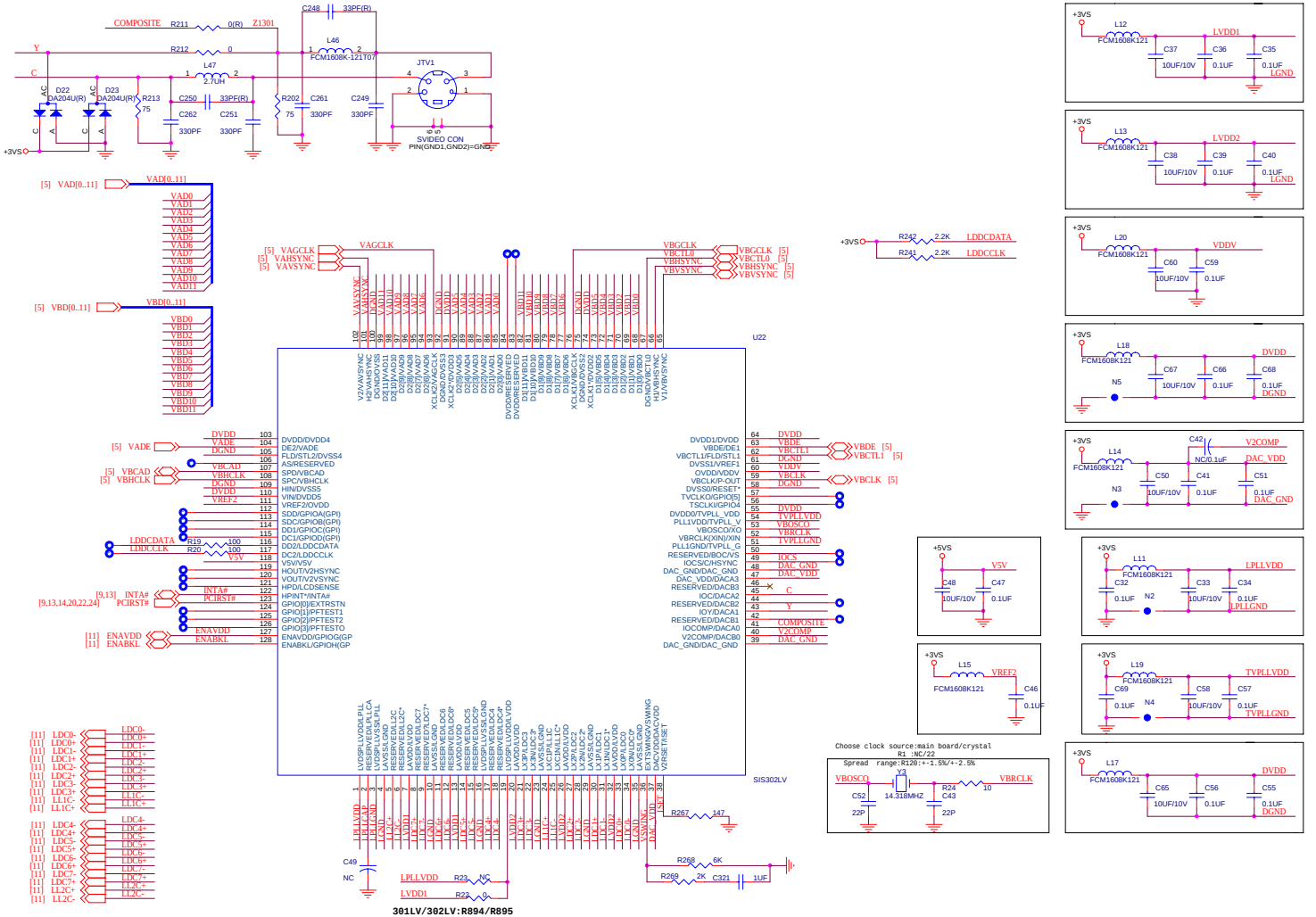
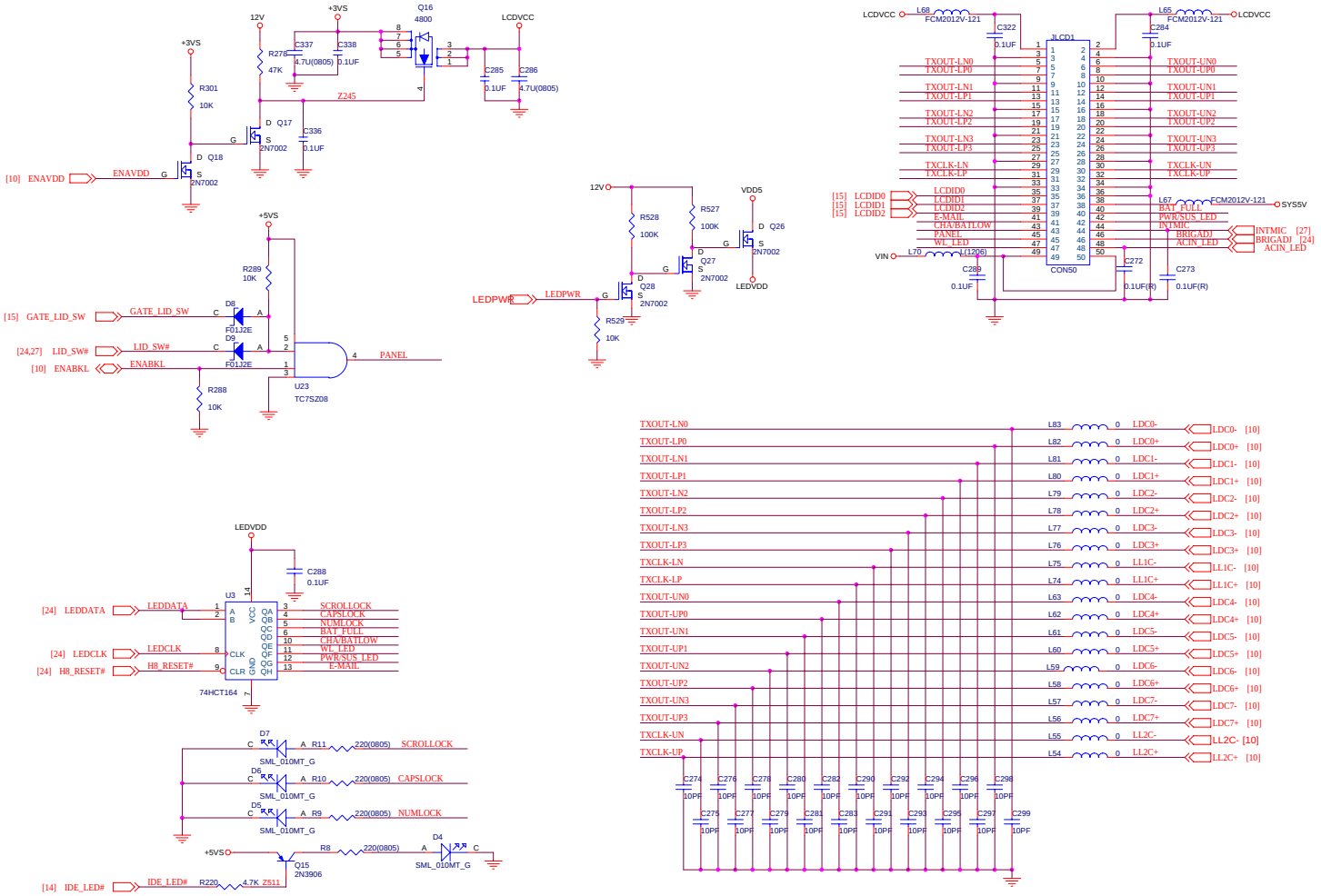
LVDS interface
(Sis302LV)



Panel Con & LED Indicator



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Panel Con & LED Indicator

962 (PCI/IDE/HyperZip) 1 of 4

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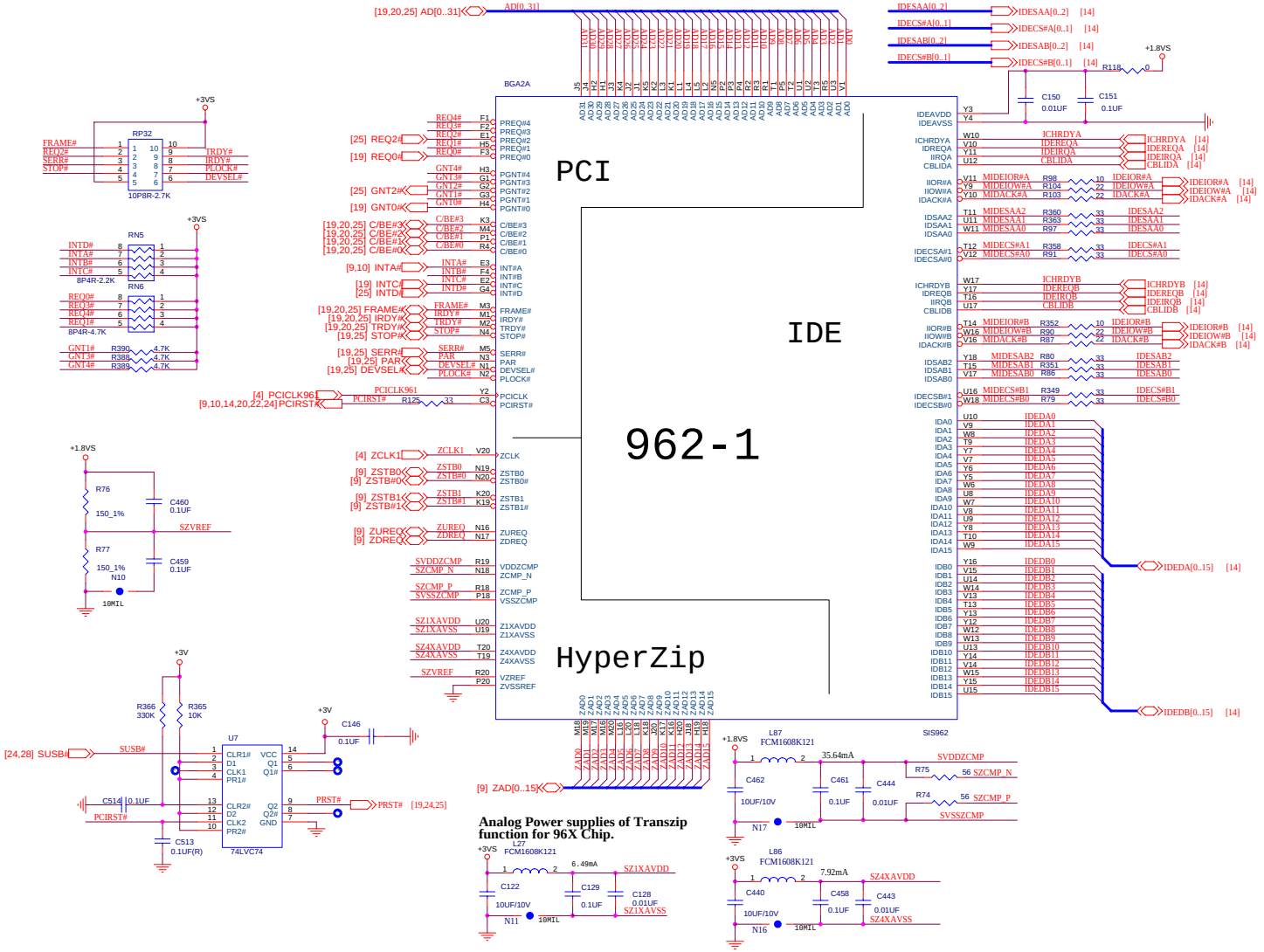
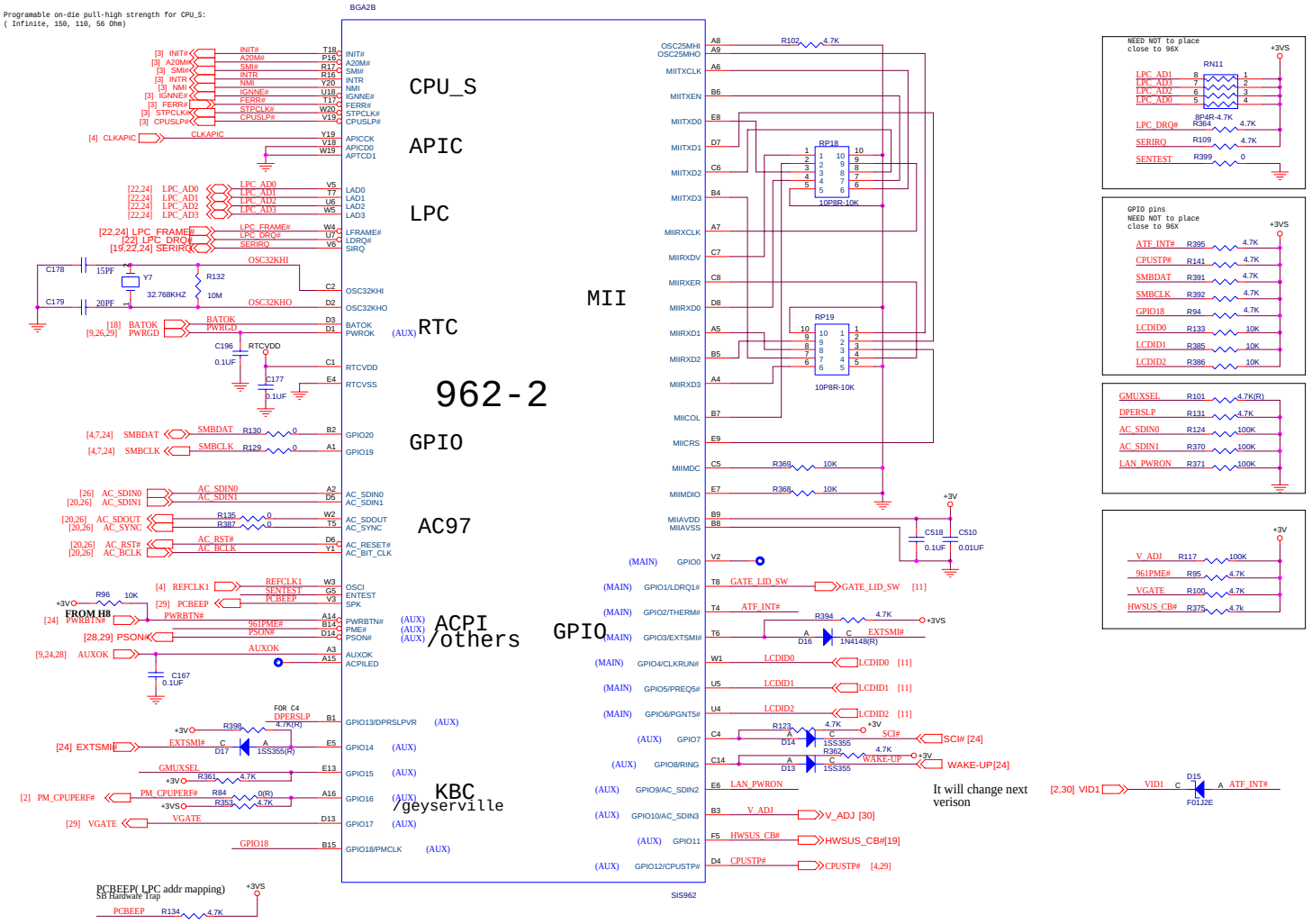
962 (PCI/IDE/
HyperZip)
1 of 4



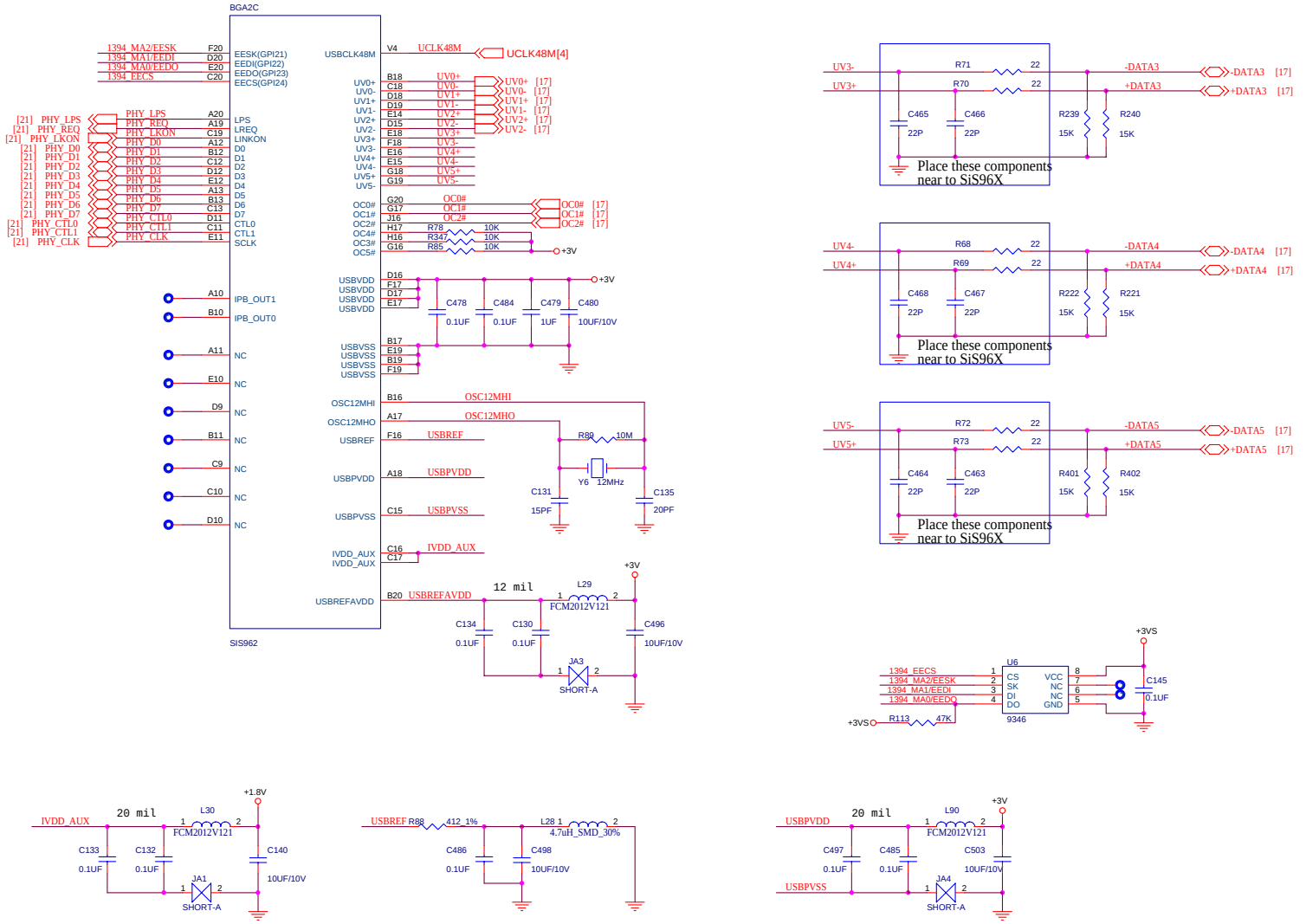
962 (Misc Signals) 2 of 4



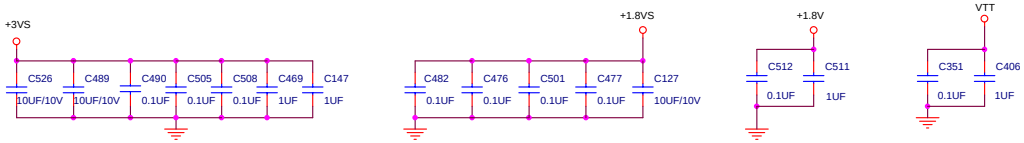
Sheet 14 of 35
962 (Misc Signals)
2 of 4

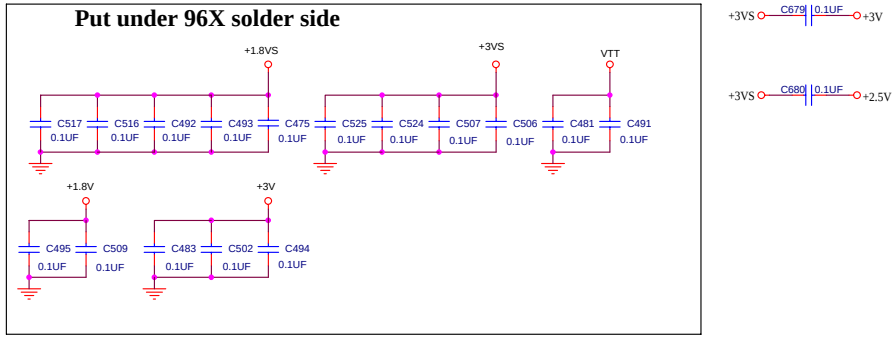
962 (USB I/F) 3 of 4

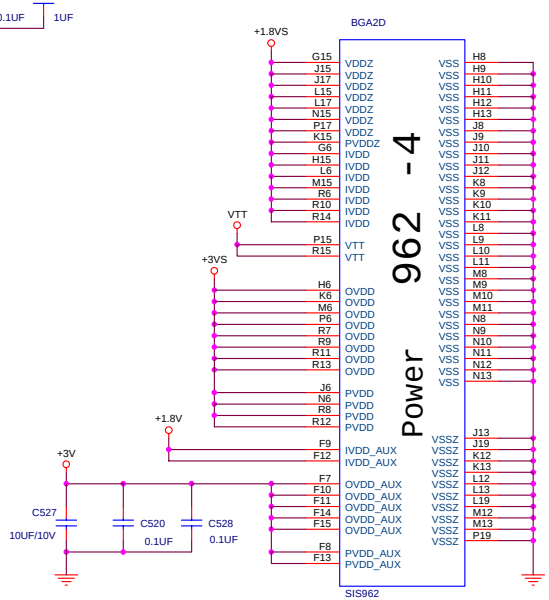
Sheet 15 of 35
962 (USB I/F)
3 of 4

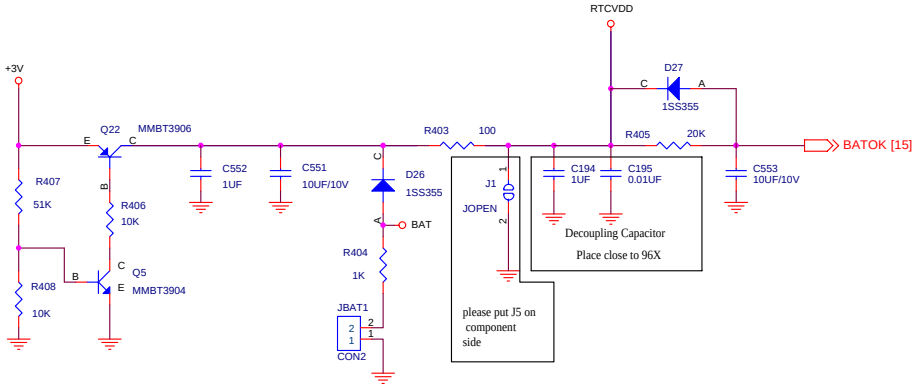


962 (Power & RTC) 4 of 4









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962 (Power & RTC)
4 of 4

HDD/Combo Connector

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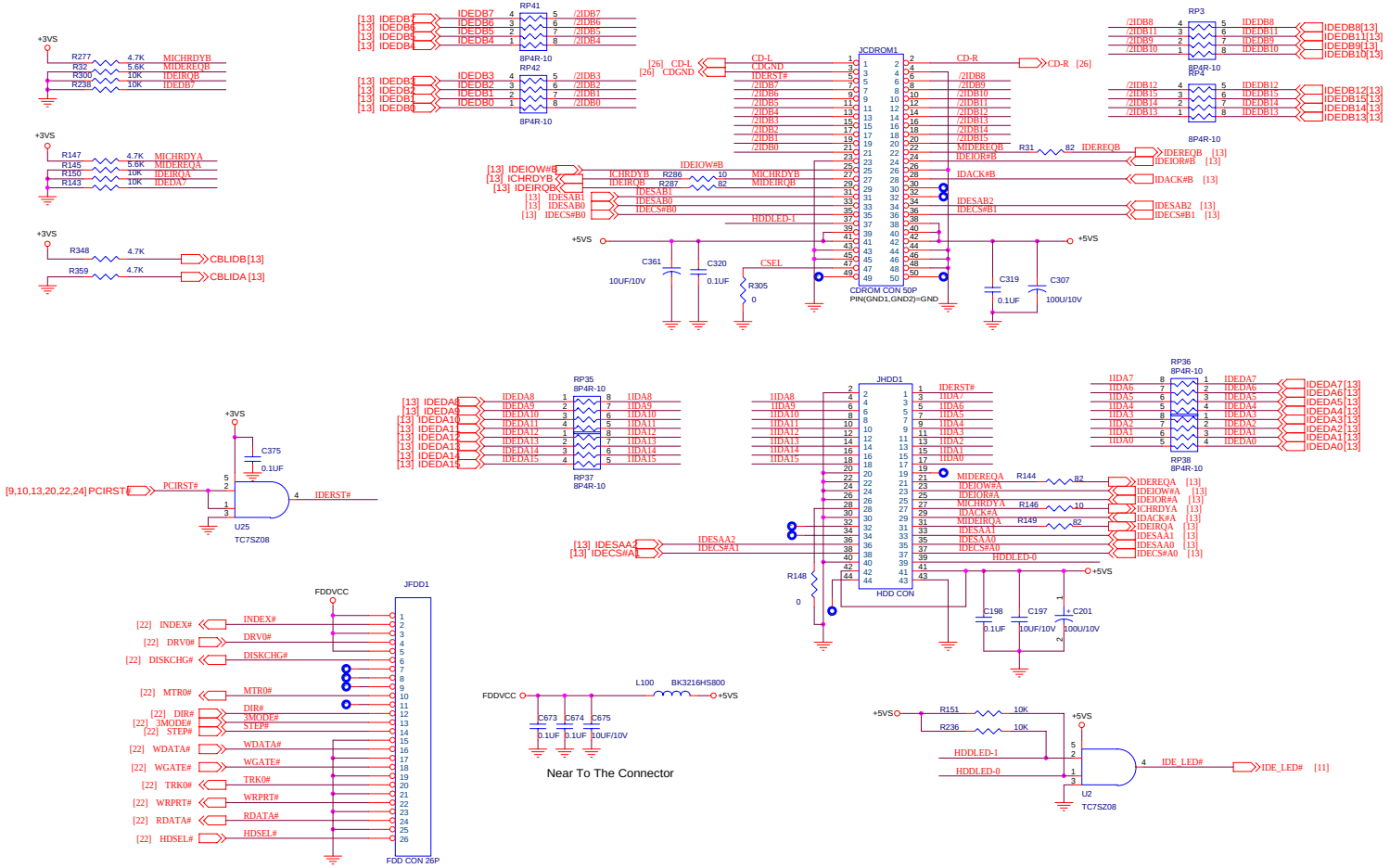
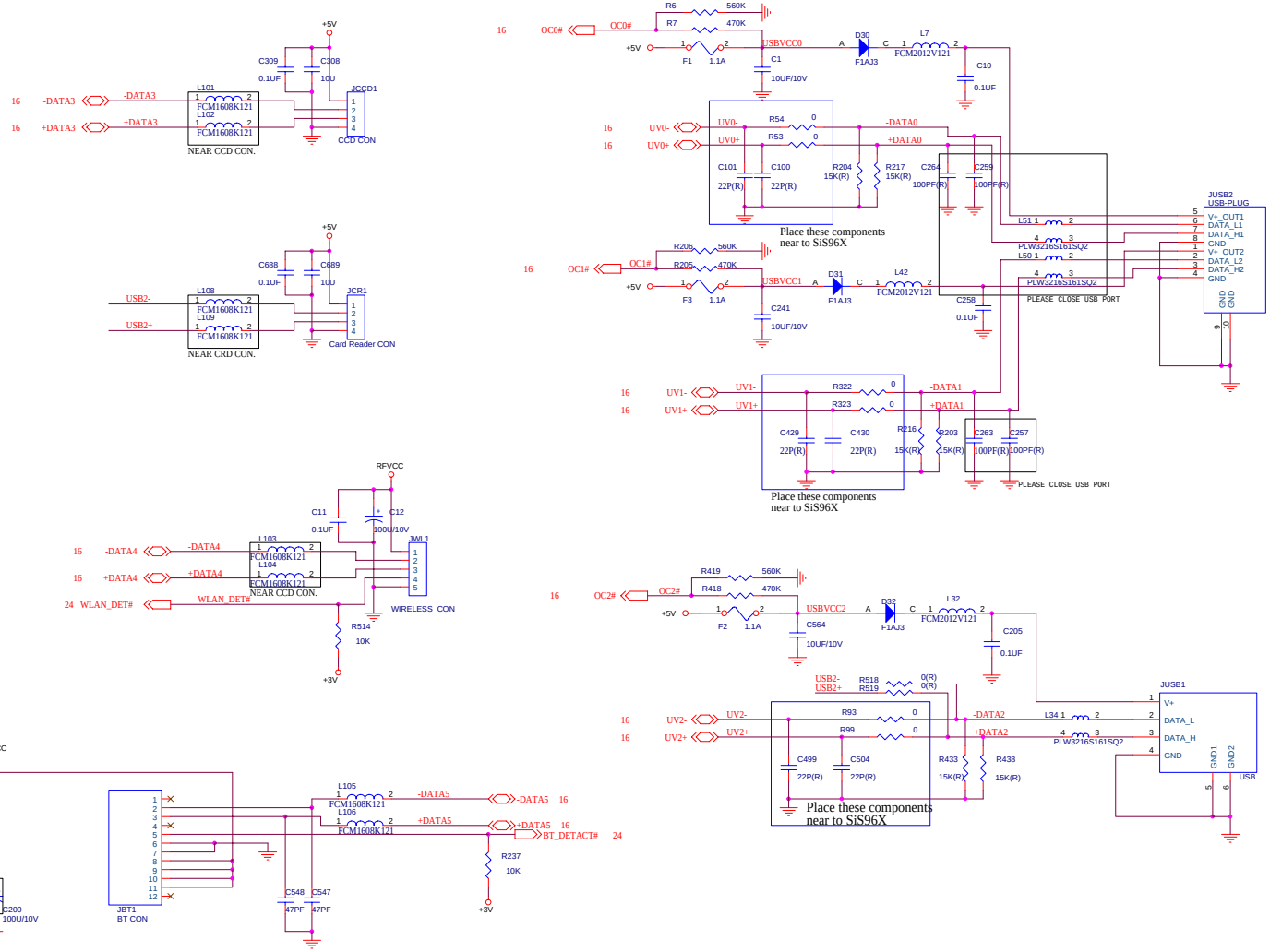
HDD/Combo Connector



USB Port



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USB Port

PCMCIA TI1410

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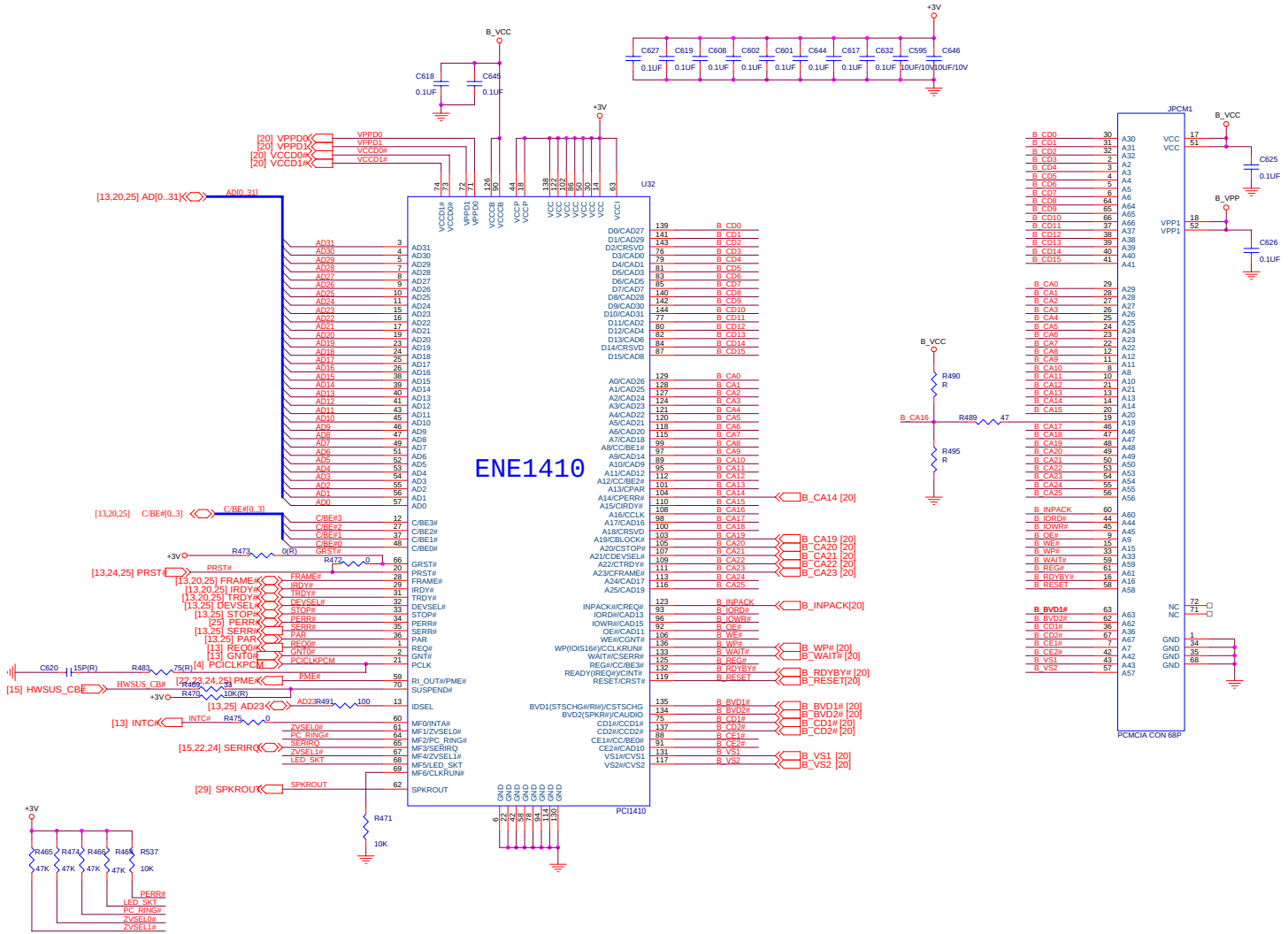
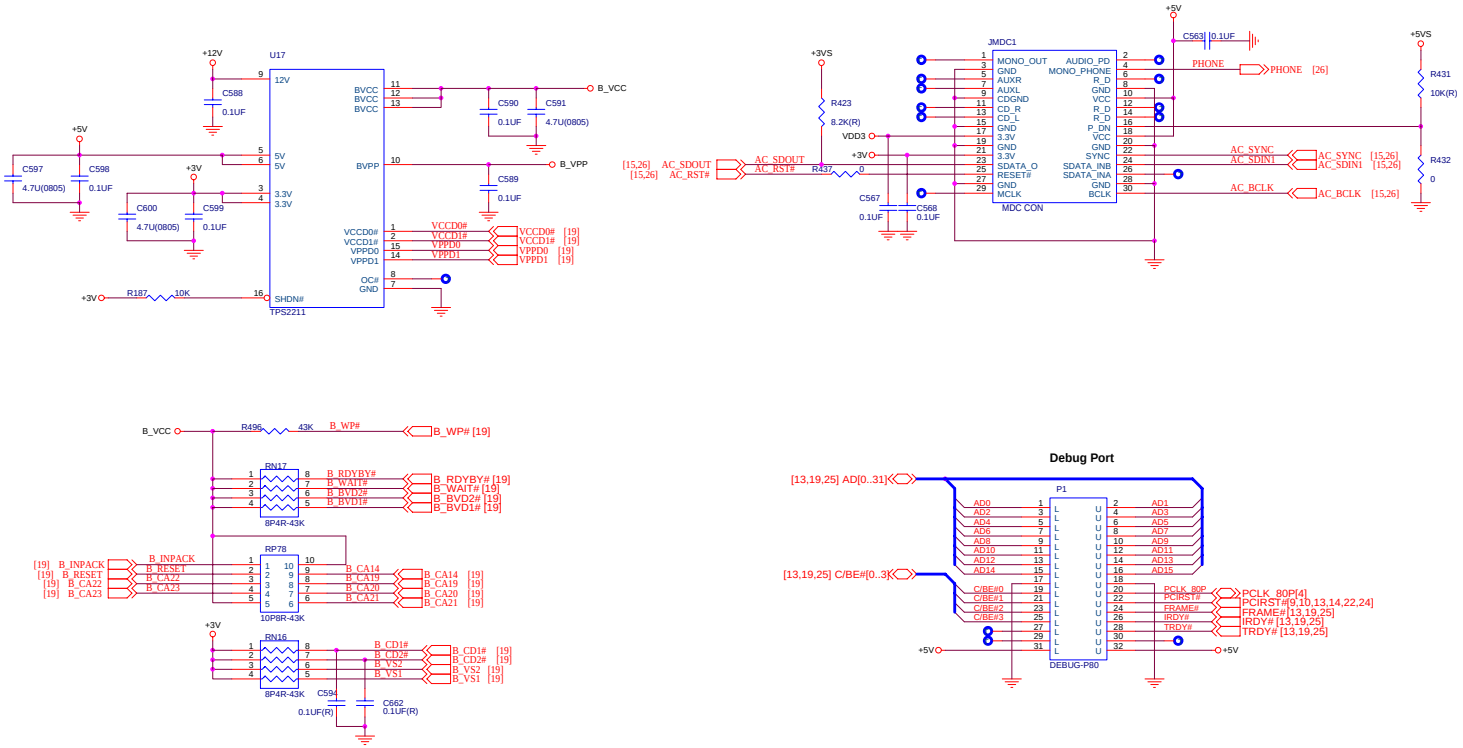
PCMCIA TI1410



PCMCIA Power



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PCMCIA Power

1394 PHY TSB41LV01

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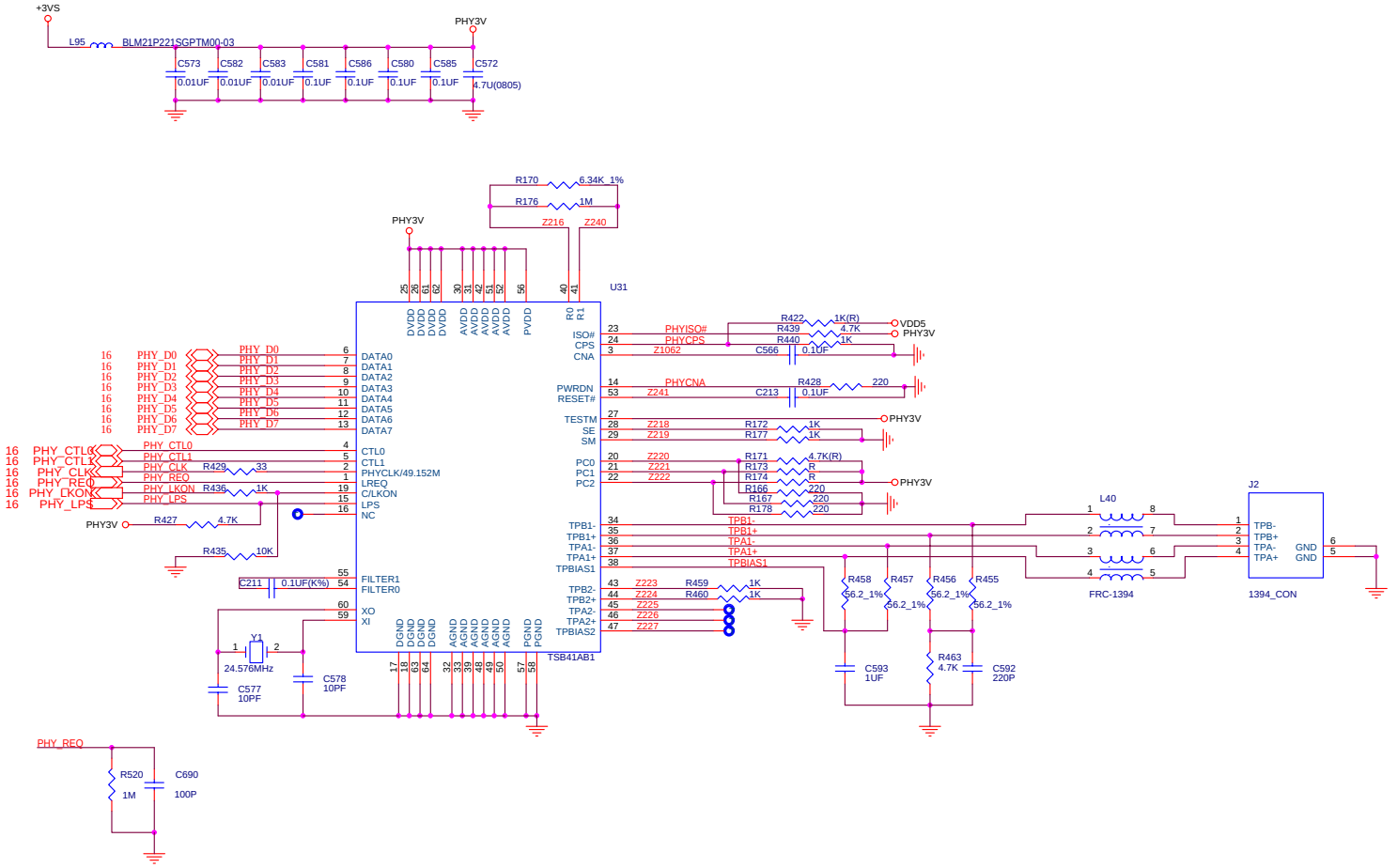
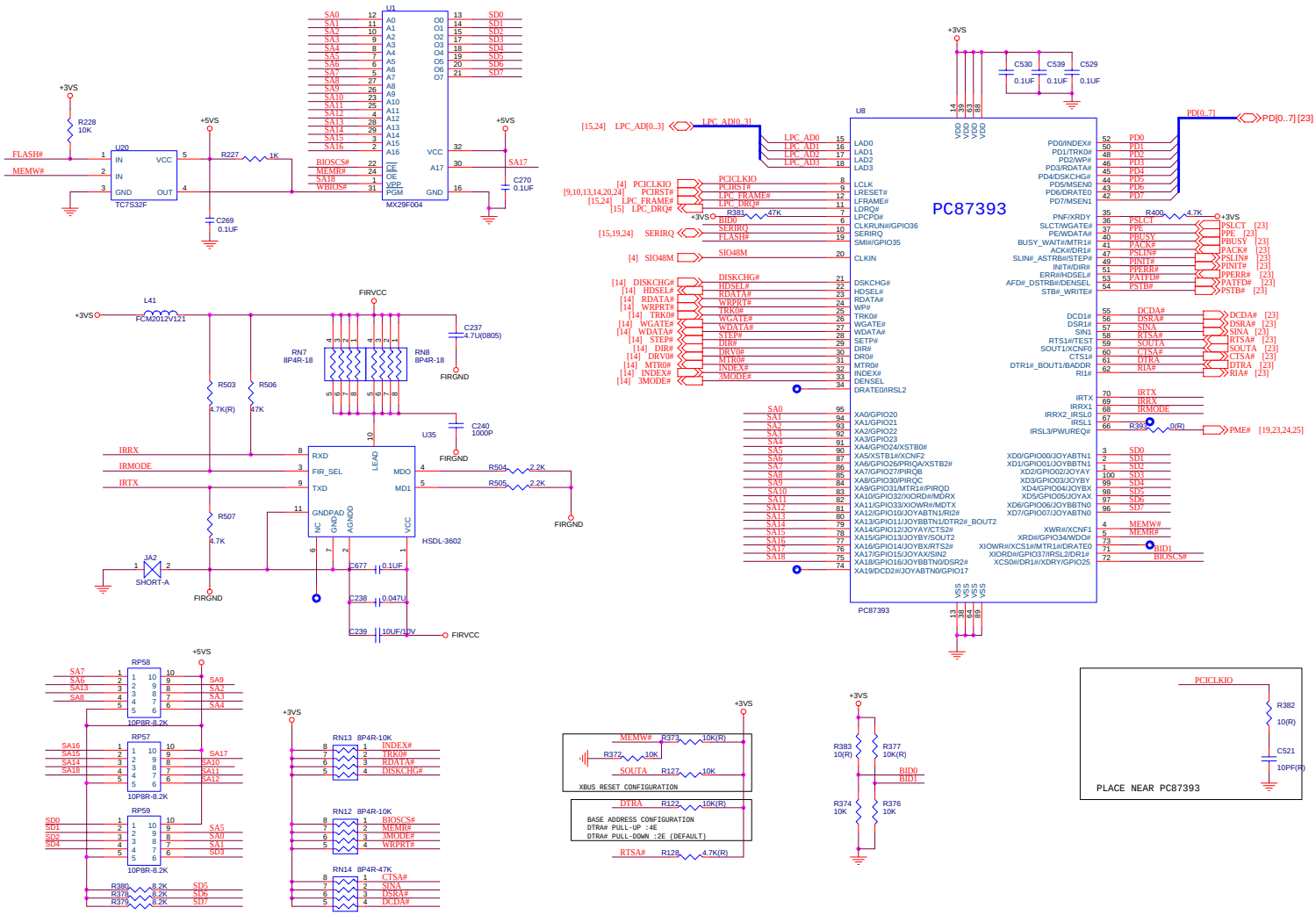
1394 PHY
TSB41LV01



LPC SI/O



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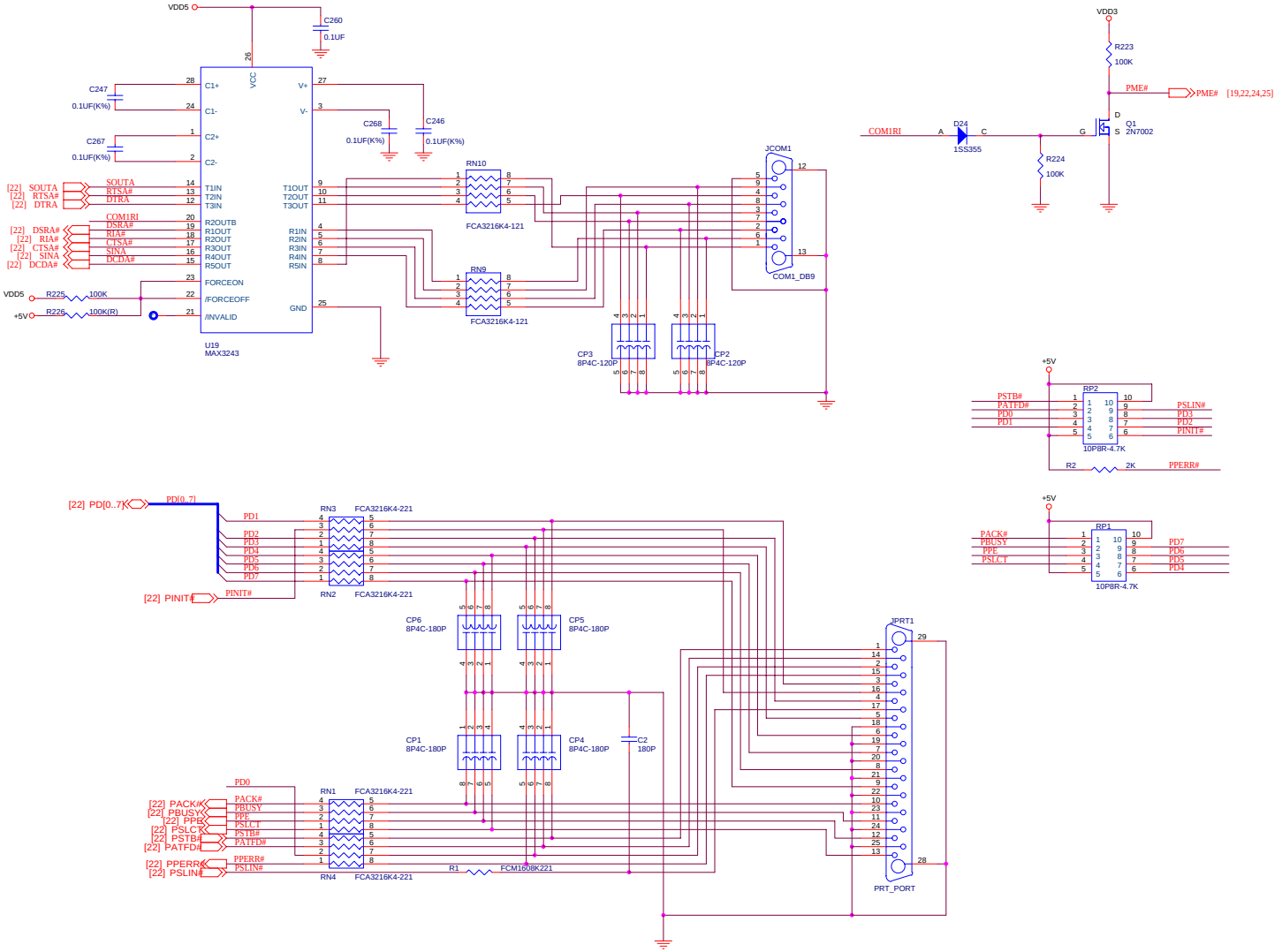
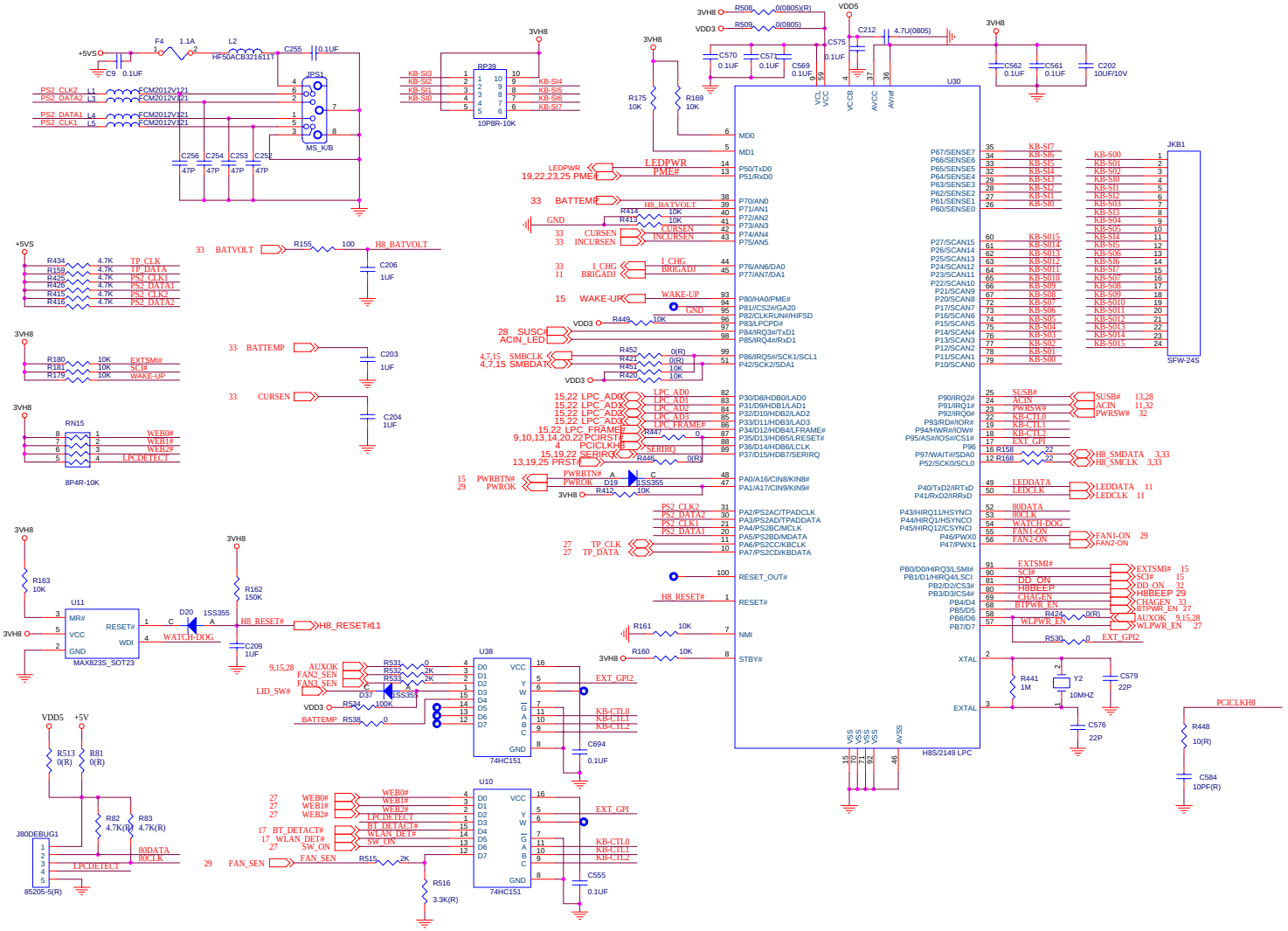
LPC SI/O

LPT/COM Port

Sheet 23 of 35
LPT/COM Port



LPC H8



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LPC H8

LAN RTL8100BL

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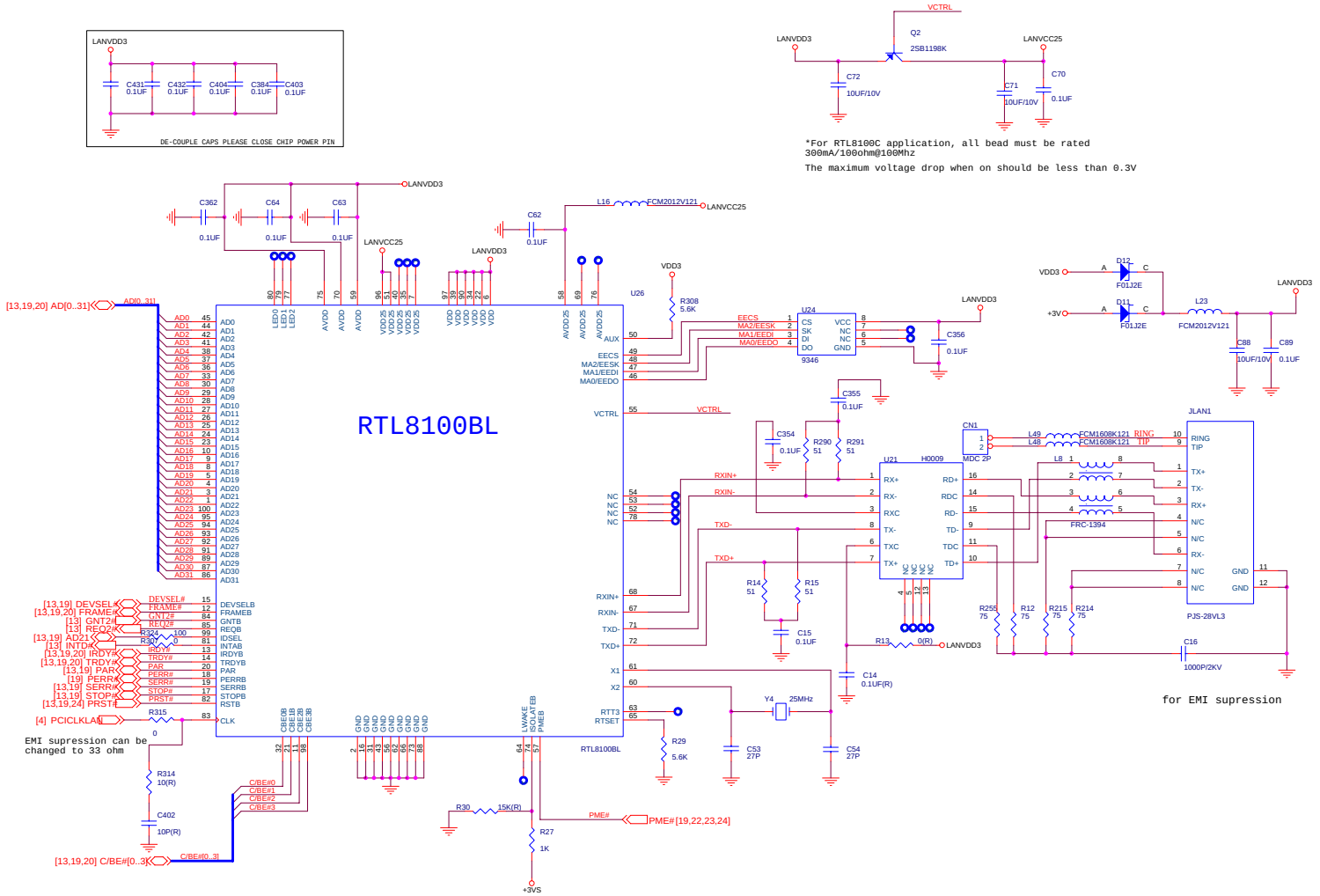
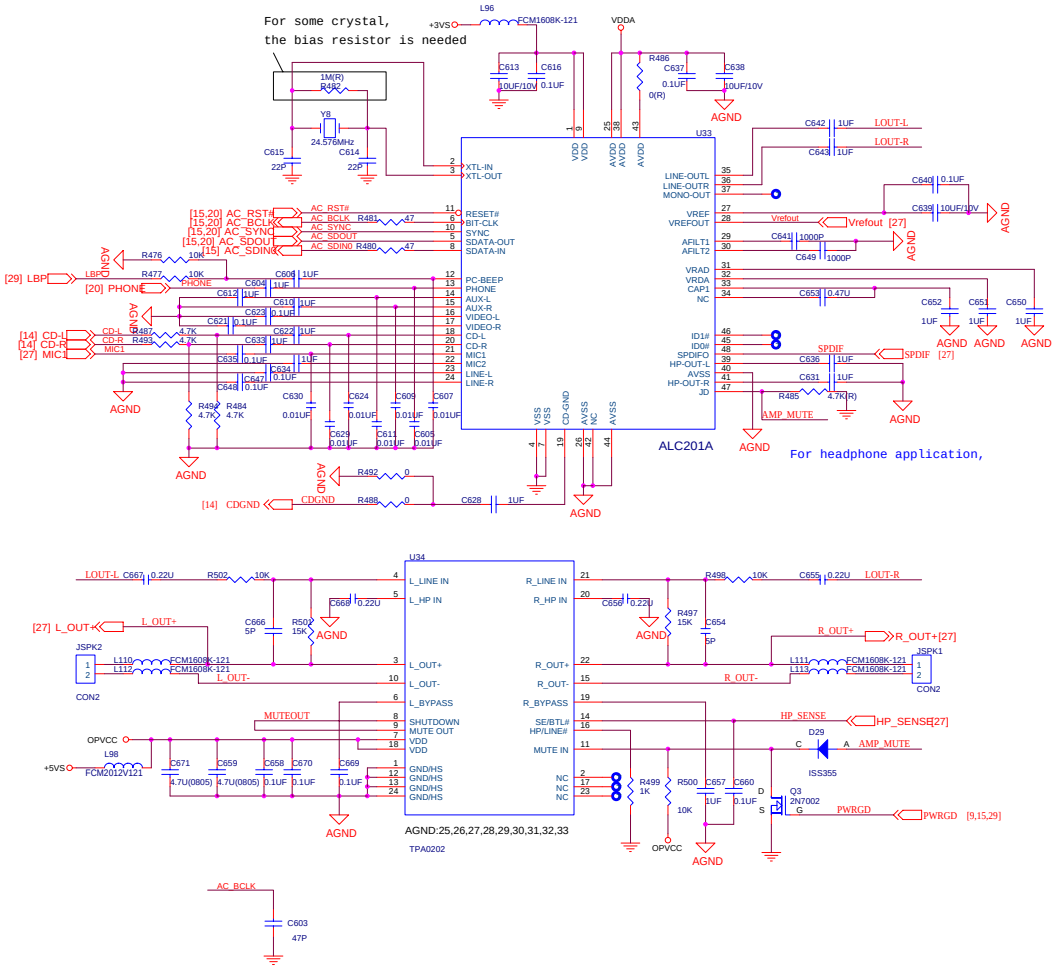
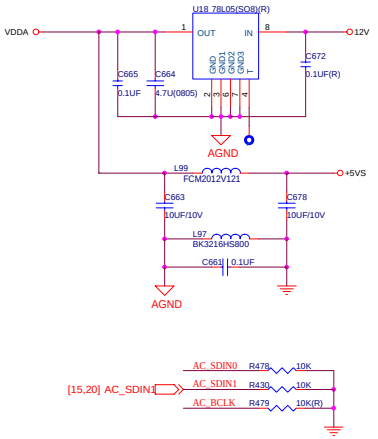
LAN RTL8100BL



Audio Codec ALC201A





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Audio Codec
ALC201A

Audio Out & Off Board Connectors

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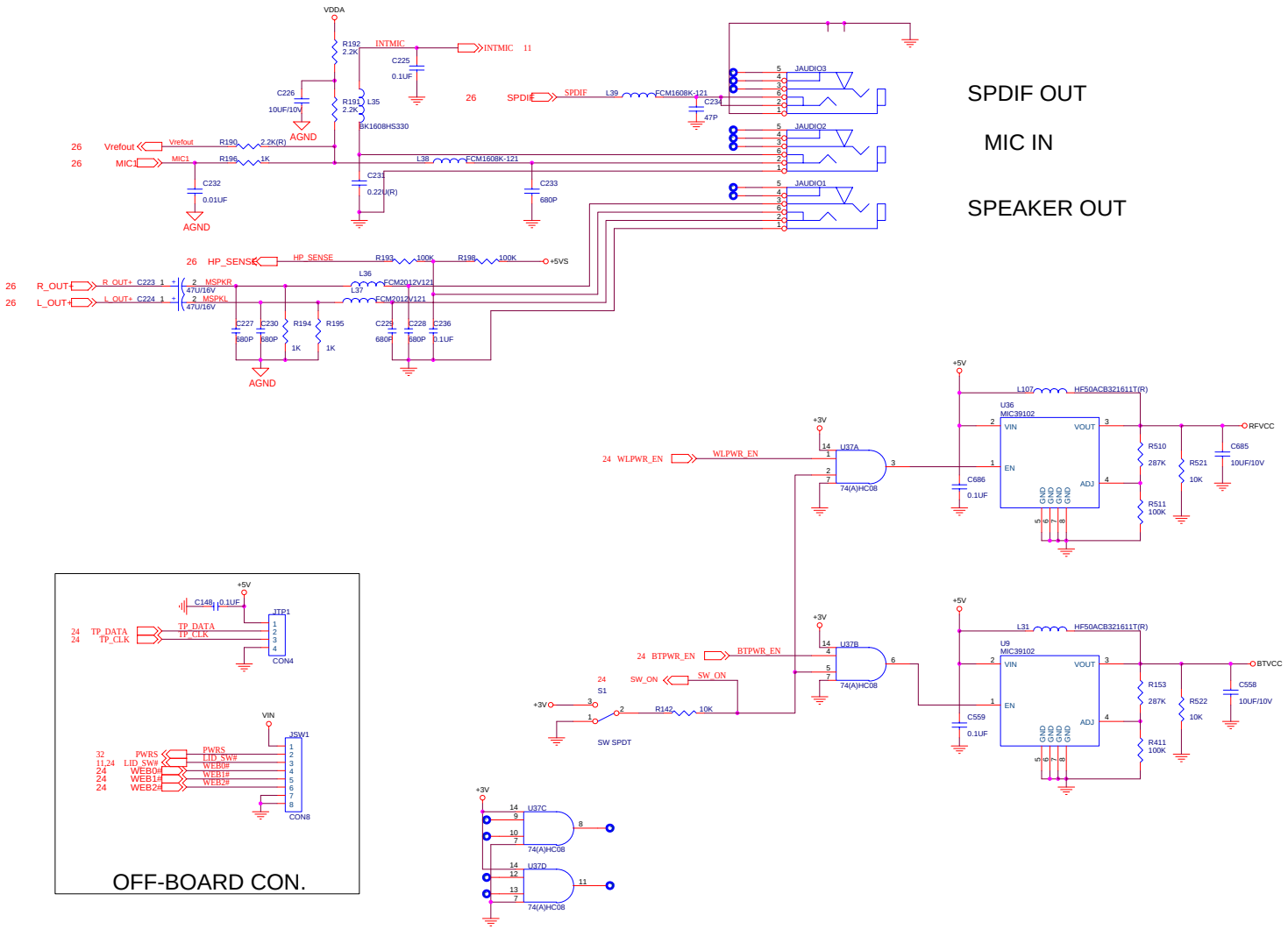
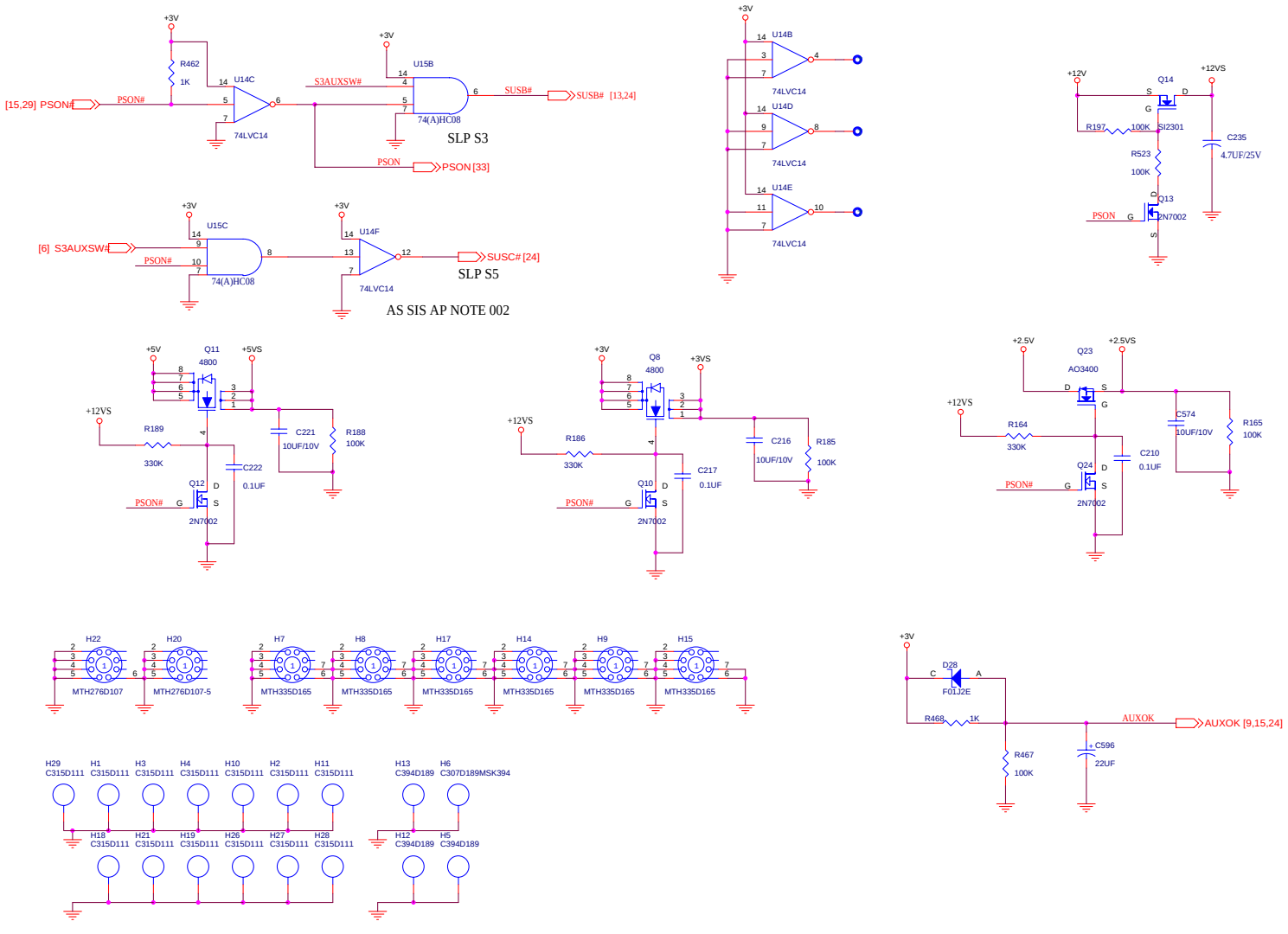
Audio Out & Off Board Connectors



System Power Control



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System Power Control

Fan Control and SpeedStep

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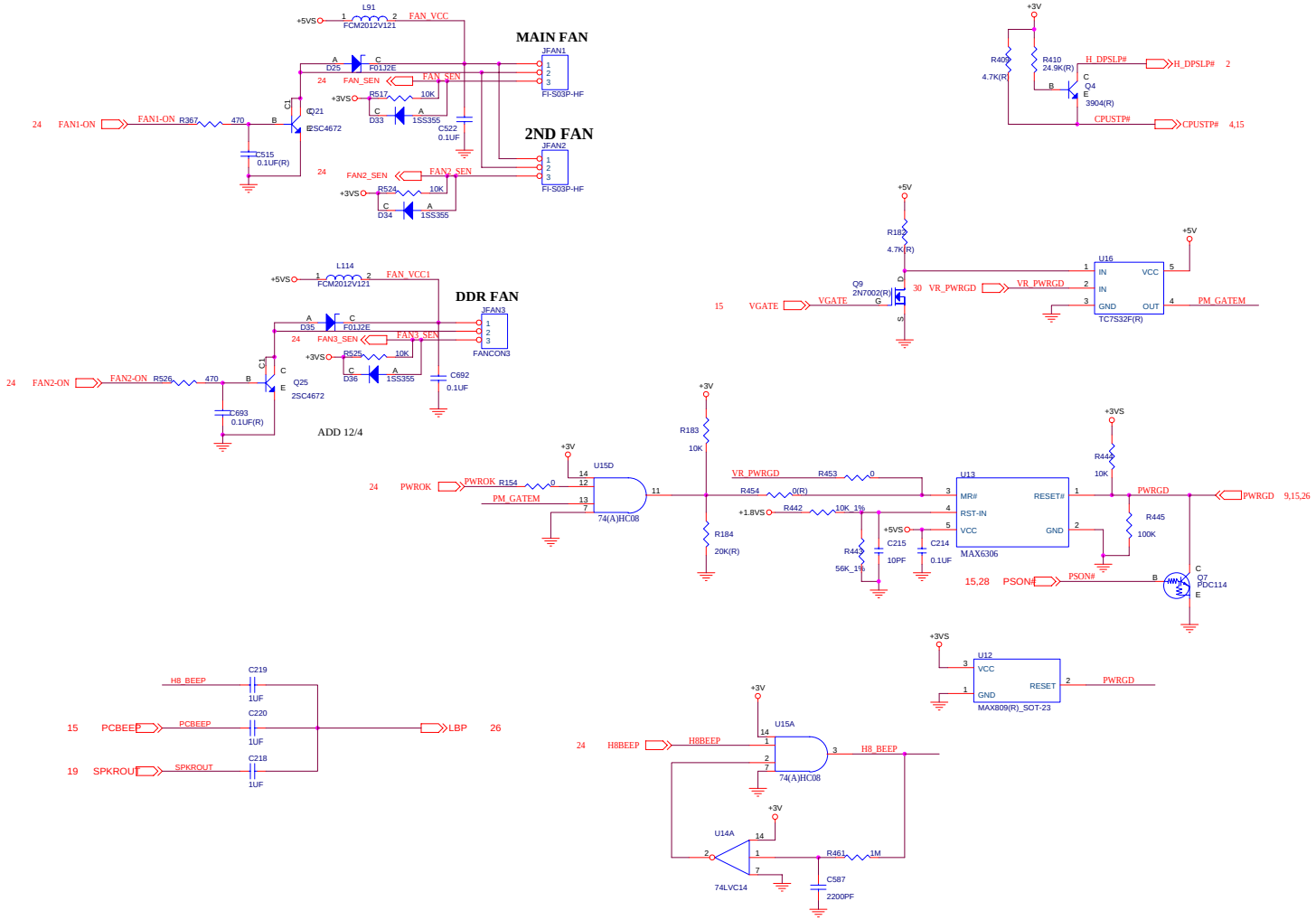
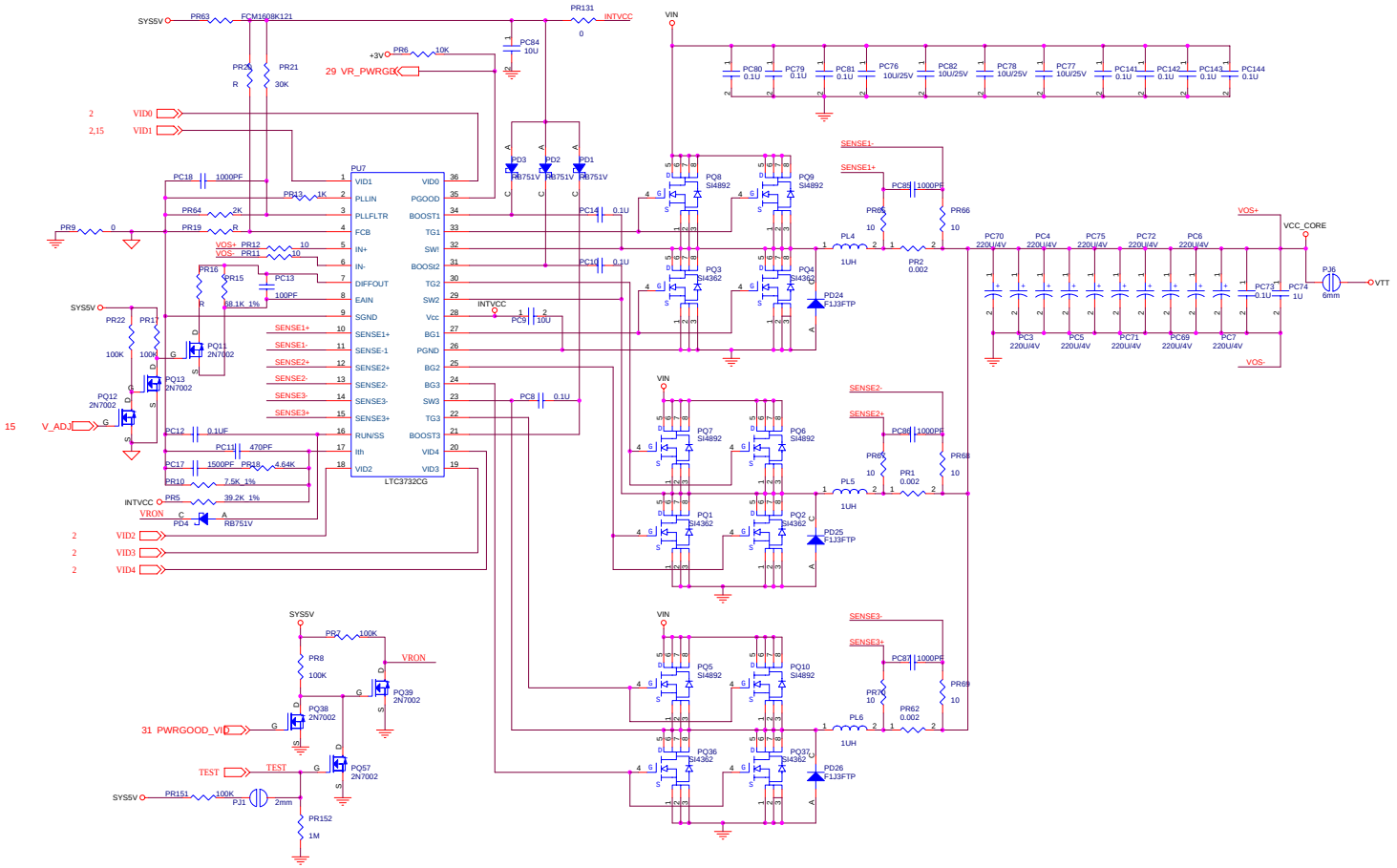
Fan Control & SpeedStep



VCORE



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VCORE

DDR Power

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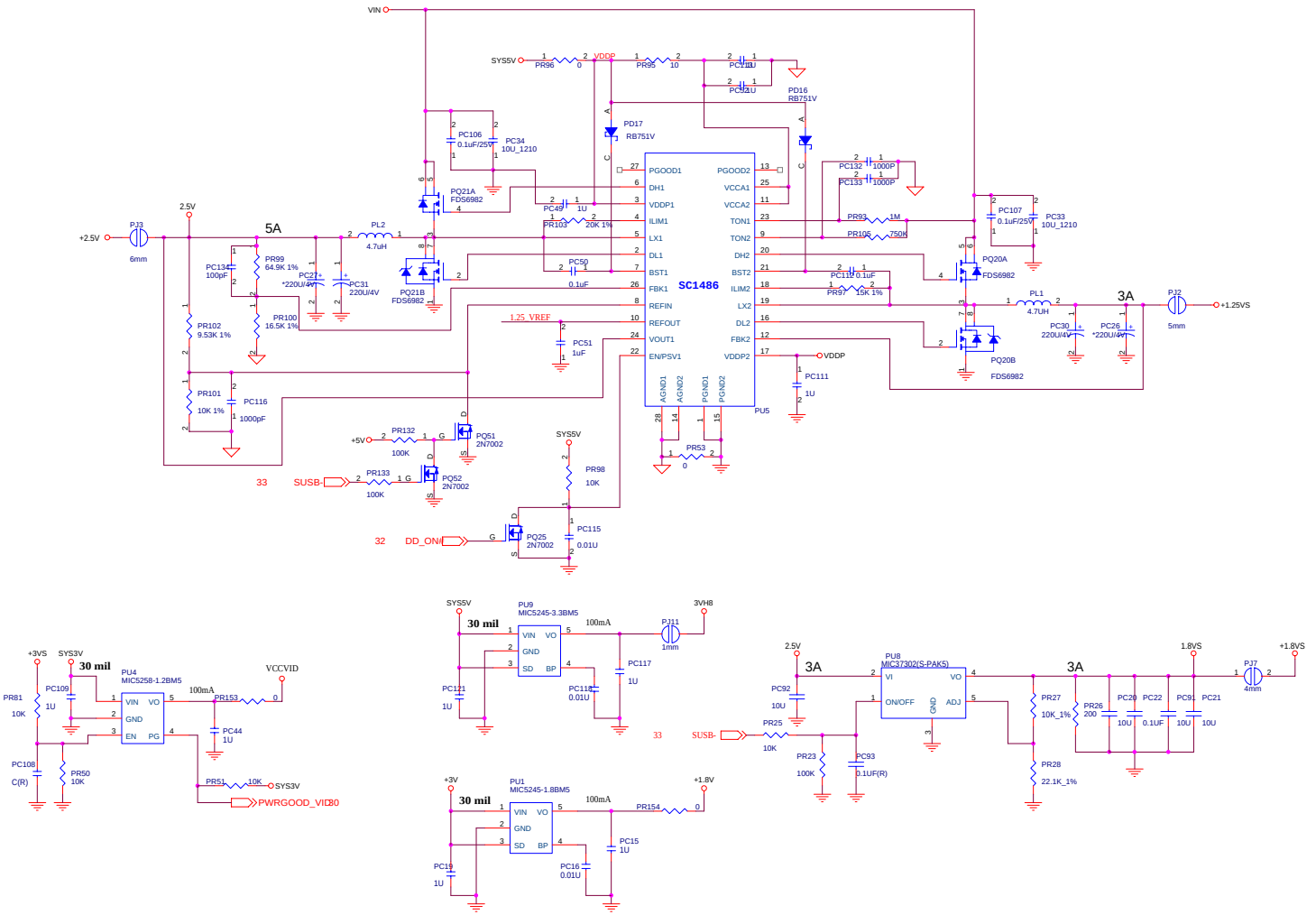
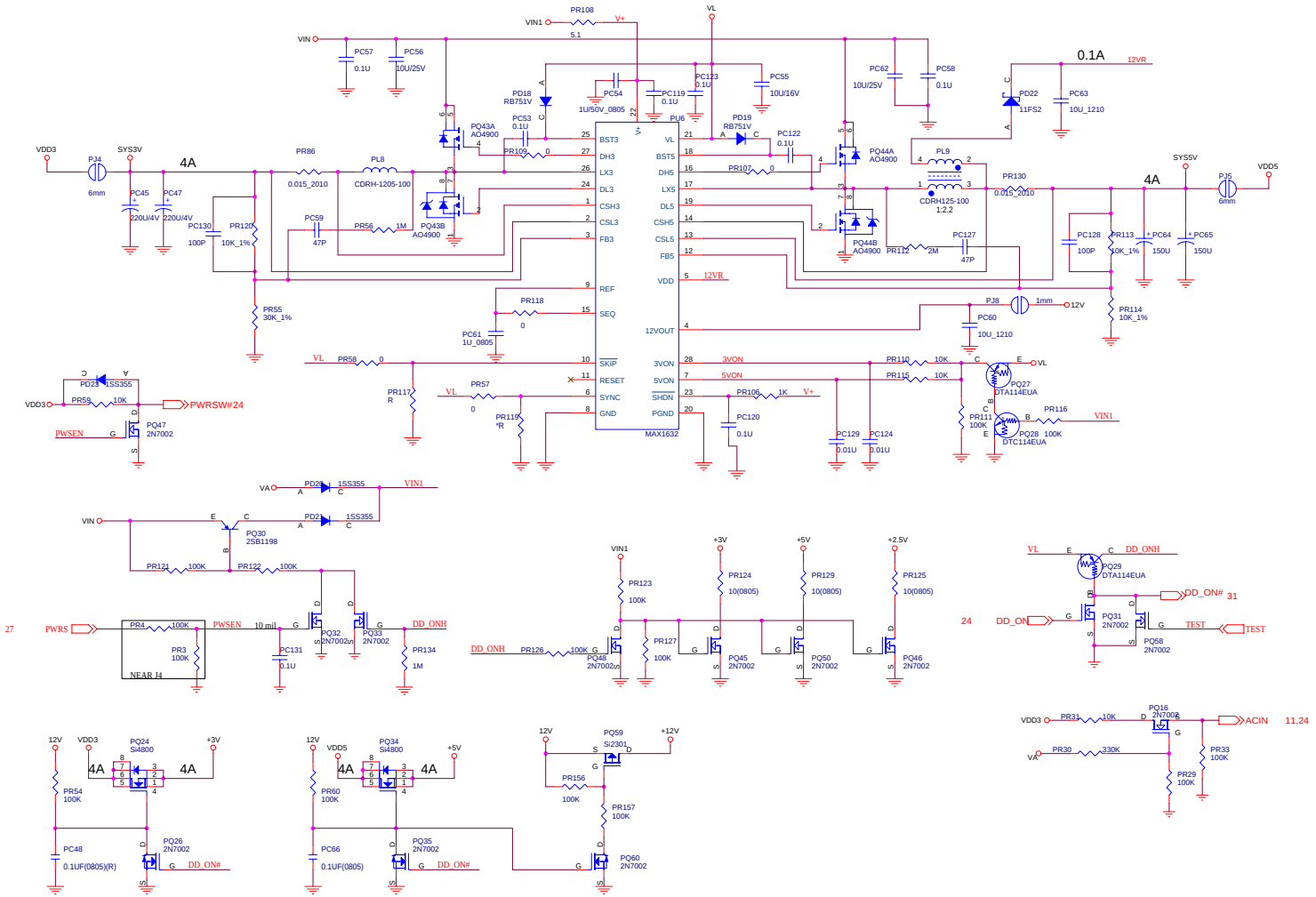
DDR Power



System



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System

Charger

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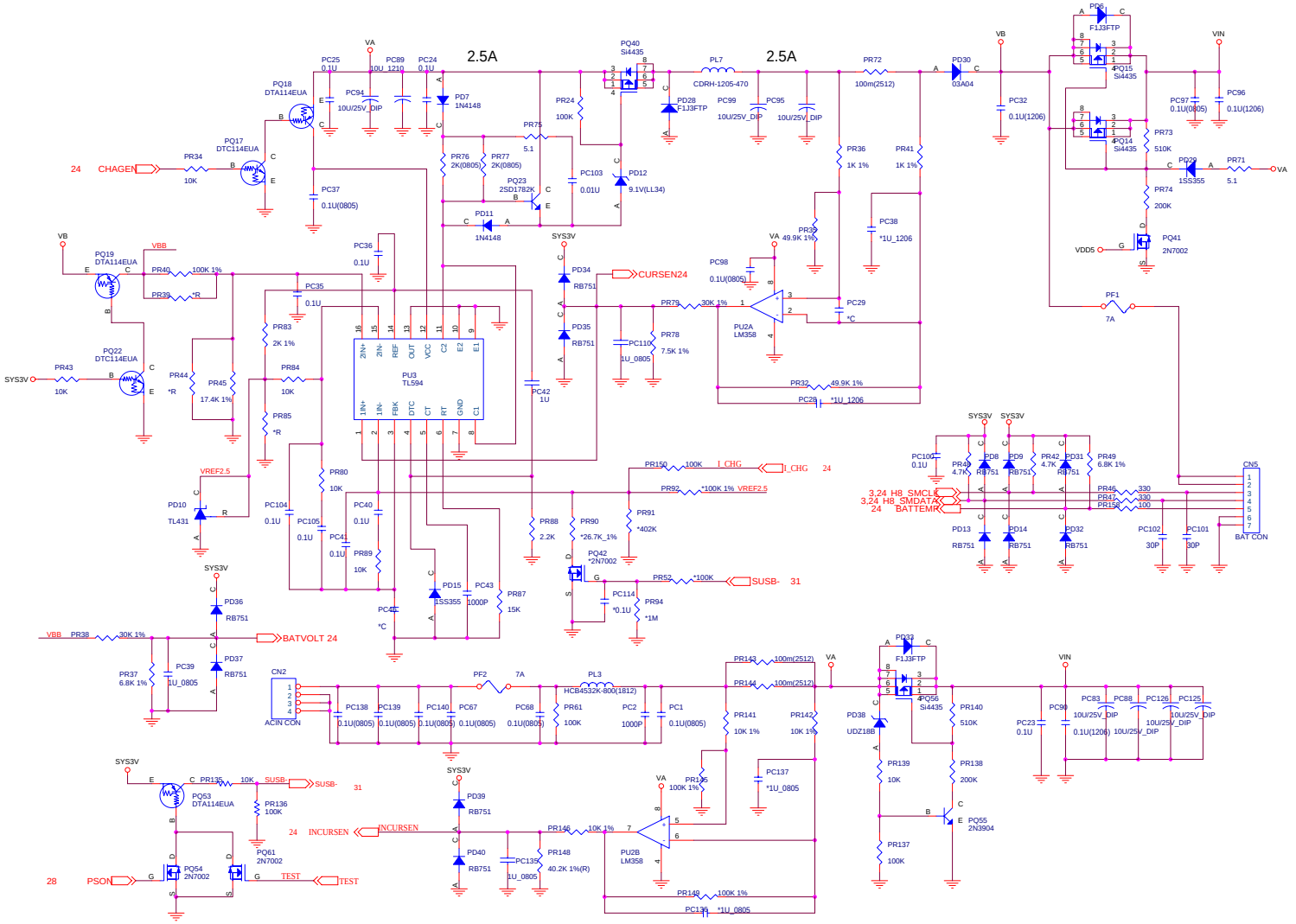
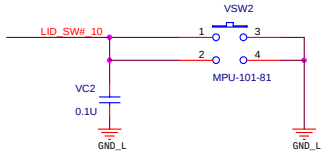
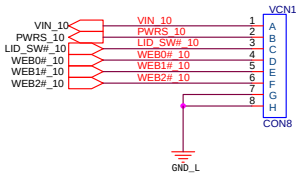
Charger

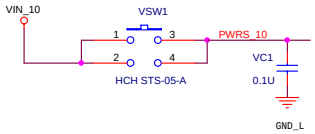


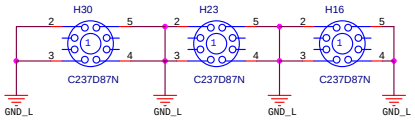
SW Board and HotKey

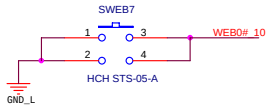


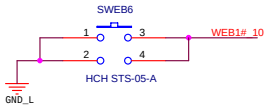


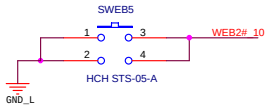
Hot keys,Power switch,key,Lid











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SW Board and HotKey

TouchPad and Switch Board

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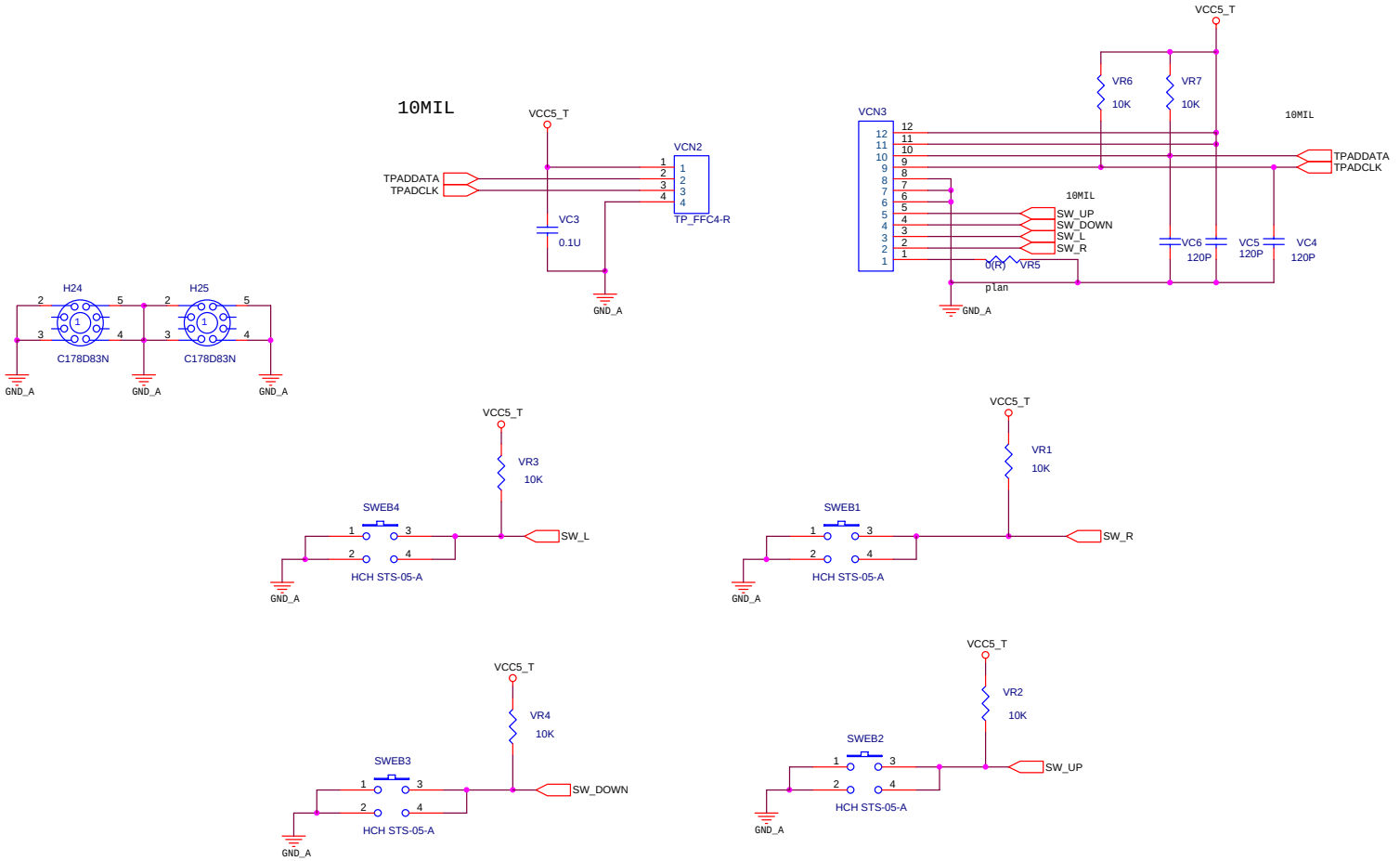
TouchPad and Switch Board



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 Floppy Disk.
- Reboot your computer from the FDD.
- Use the flash tools to update the flash BIOS.
- Restart the computer booting from the HDD.

1. Using your web browser go to **www.clevo.com.tw**
2. Choose **Download** from the menu bar at the top of the page.
3. In the **Driver** section select the model of your computer (**D400S/D410S Series**) and the driver type (**BIOS**).
4. Select **GO**.
5. Click on **D4x0Sxxx.zip** to download the BIOS files (including BIOS refresh tools).

Unzip the file you have just downloaded on to a bootable floppy disk.

(*The files you should see on this disk are: Phlash.exe, autoexec.bat, Platform.bin, D4x0Sxxx.ROM & Readme.txt)*

1. With the bootable floppy disk containing the BIOS files in your floppy drive, restart the computer.
2. The BIOS refresh process will execute automatically.
3. Reboot the computer and enter the BIOS setup.
4. Exit the BIOS and restore the default settings by choosing “Save and Exit”.