

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *M740S/M741S/M745S/M760S/M765S/M766S/M767S* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

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<i>Penryn (Socket-P) 2/2 - Page B - 4</i>	<i>968 PWR, GND 4/4 - Page B - 18</i>	<i>VDD3, VDD5) - Page B - 32</i>
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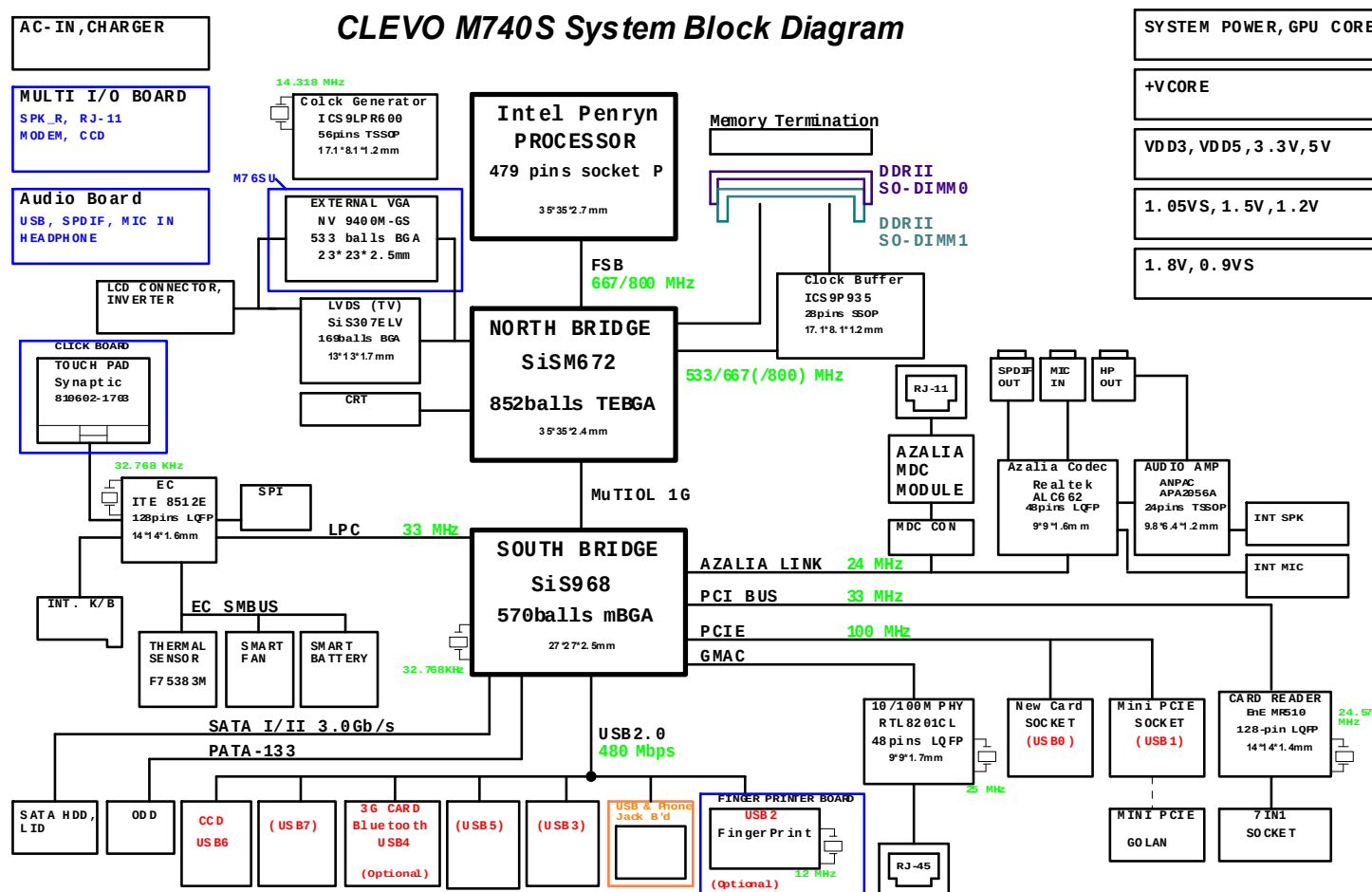
Table B - 1
**Schematic
Diagrams**



Version Note

The schematic diagrams in this chapter are based upon version 6-7P-M74S9-003A. If your main-board (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

Sheet 1 of 48
System Block
Diagram



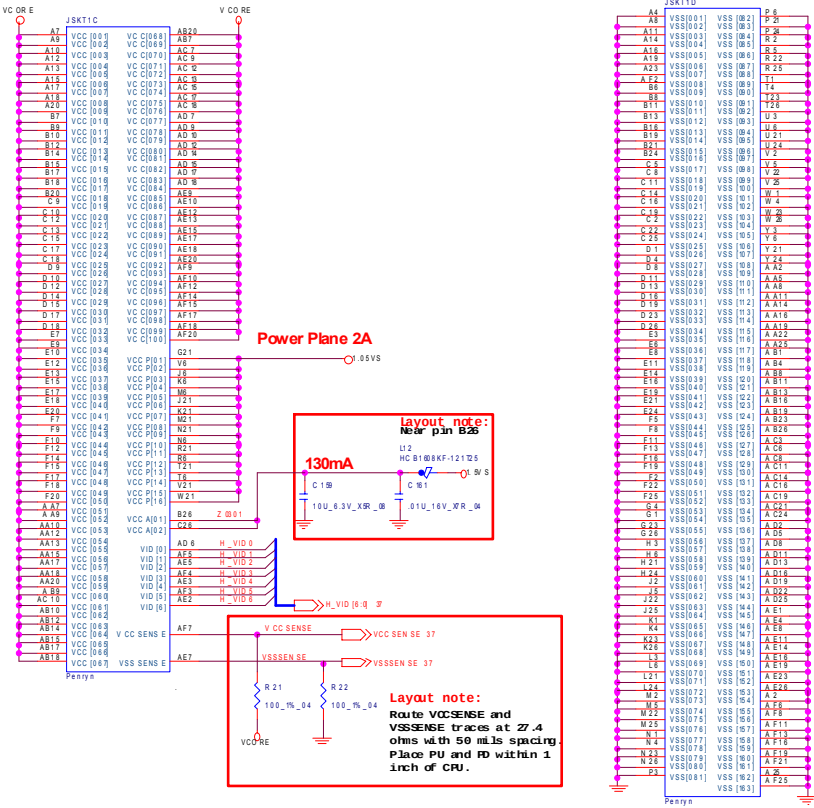
Sheet 2 of 48
Penryn (Socket-P)
1/2



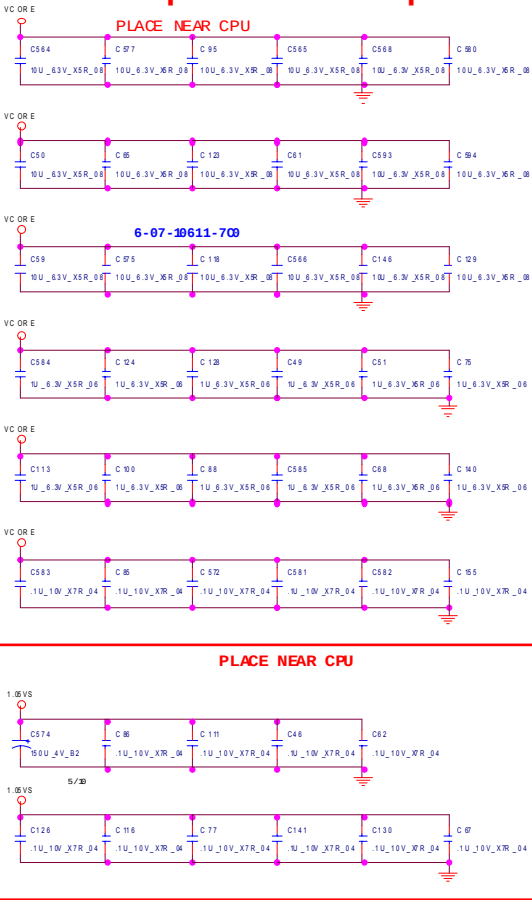
Schematic Diagrams

Penryn (Socket-P) 2/2

Sheet 3 of 48
Penryn (Socket-P)
2/2



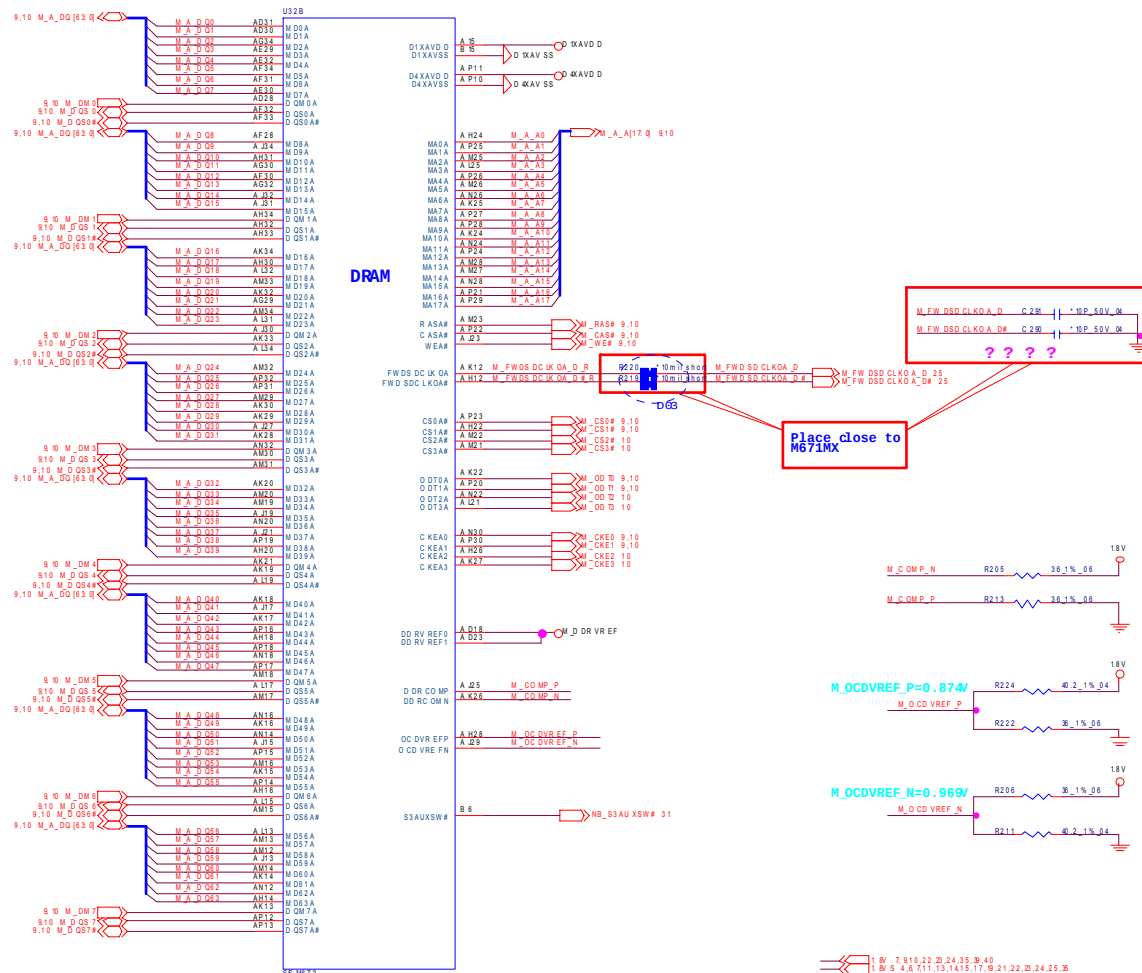
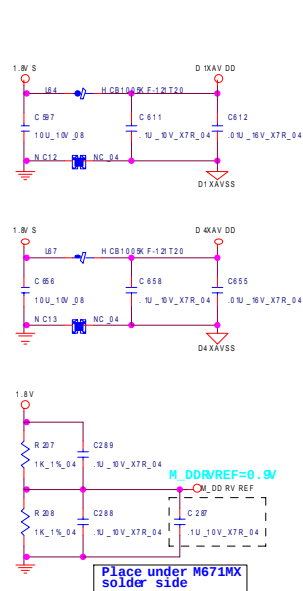
Check cap for santa rosa platform



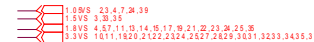
1.0V5 2.487.24.39
1.0V5 6.3335
VCCORE 37

SiSM672 DRAM 2/5

Sheet 5 of 48
SiSM672 DRAM 2/5

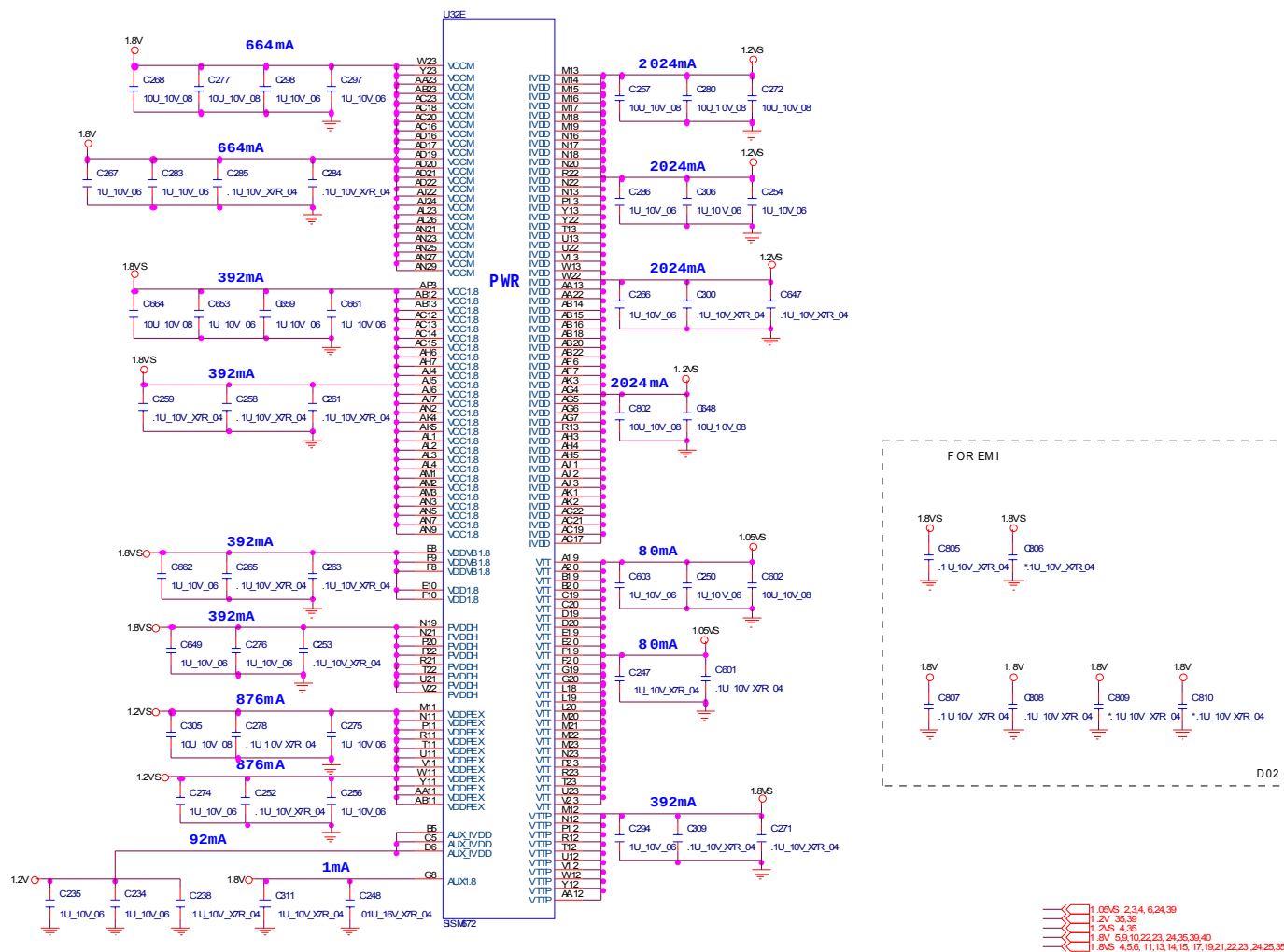


Sheet 6 of 48
SiSM672 MuTIOL
VGA 3/5

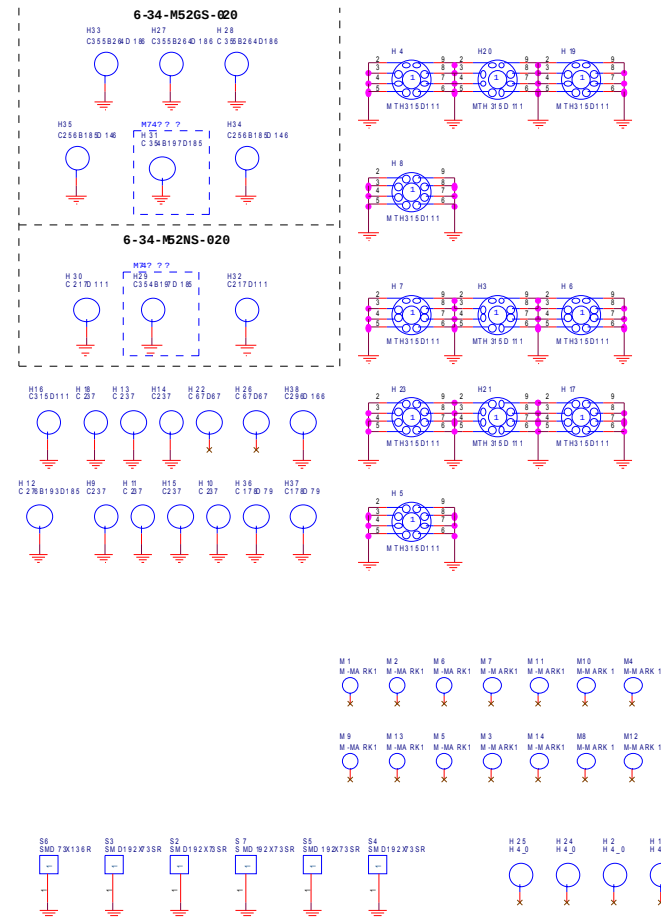
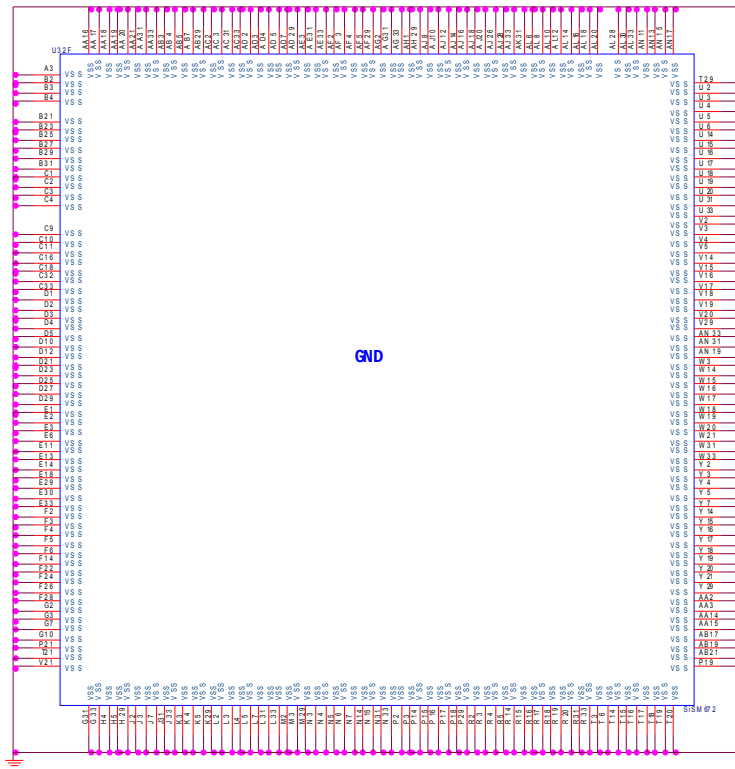


B. Schematic Diagrams

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SiSM672 PWR 4/5



SiSM672 GND 5/5

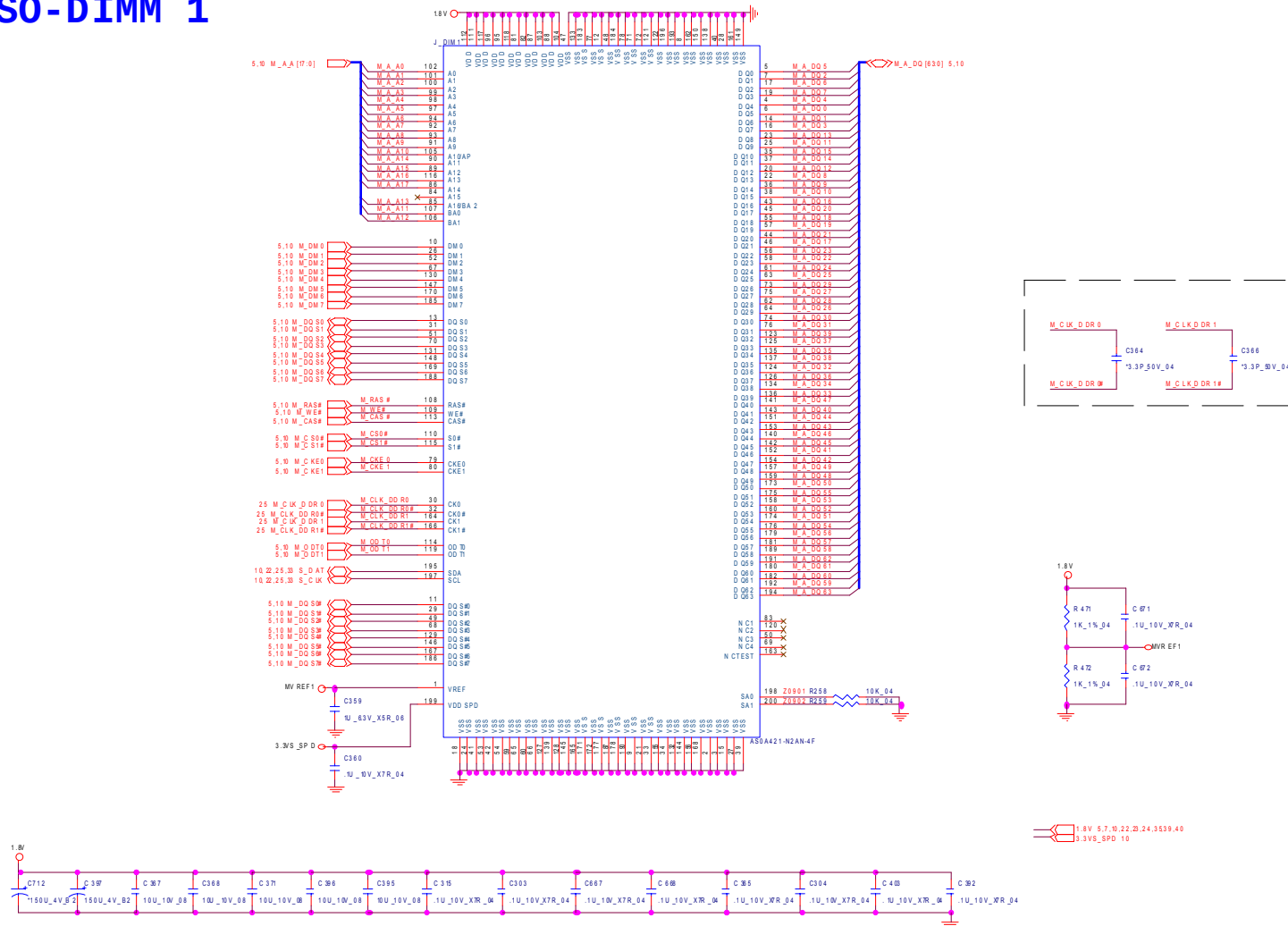
Sheet 8 of 48
SiSM672 GND 5/5

DDRII SO-DIMM - 1

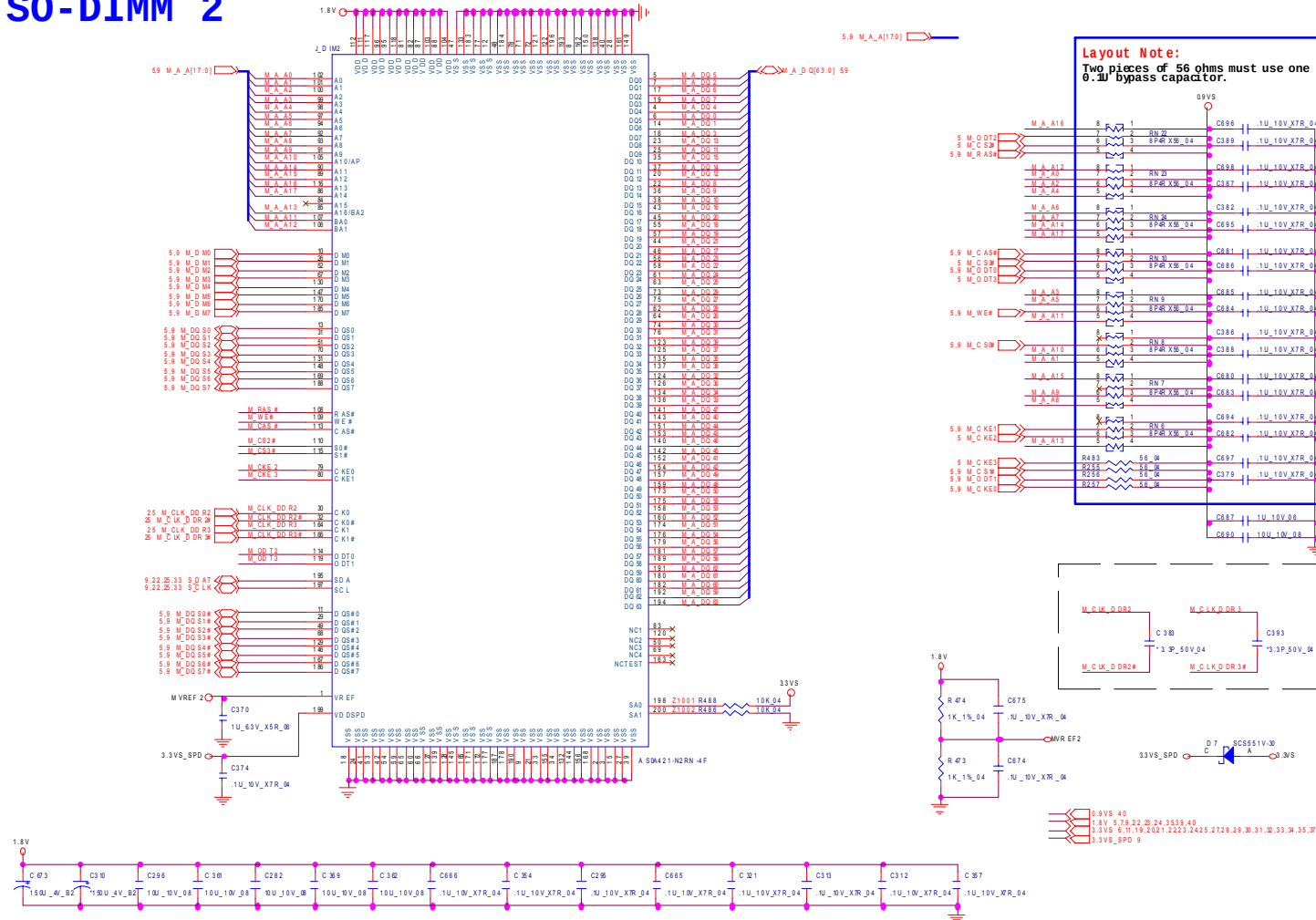
SO-DIMM 1

B.Schematic Diagrams

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DDRII SO-DIMM - 1



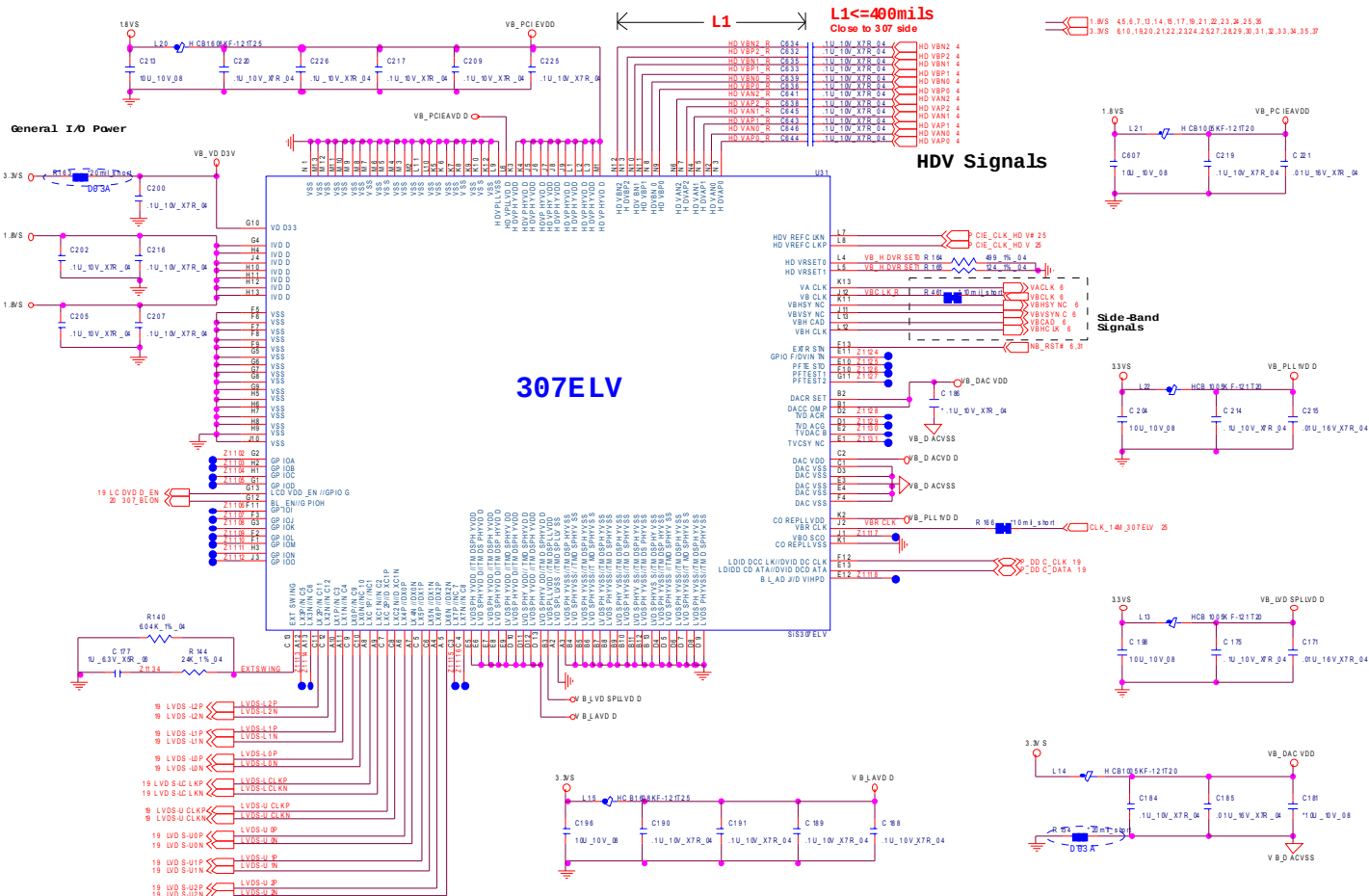
SO-DIMM 2



SiS307ELV

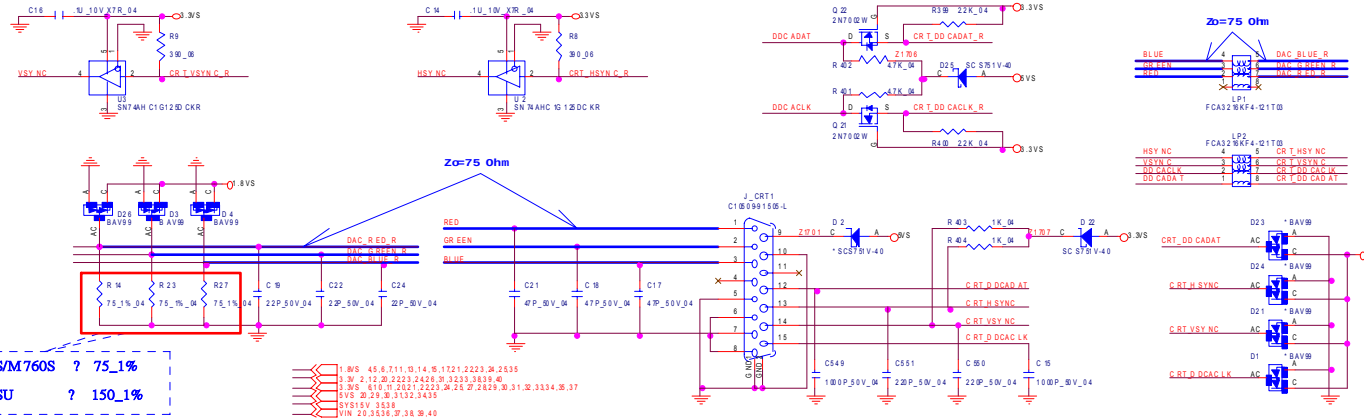
B. Schematic Diagrams

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SiS307ELV

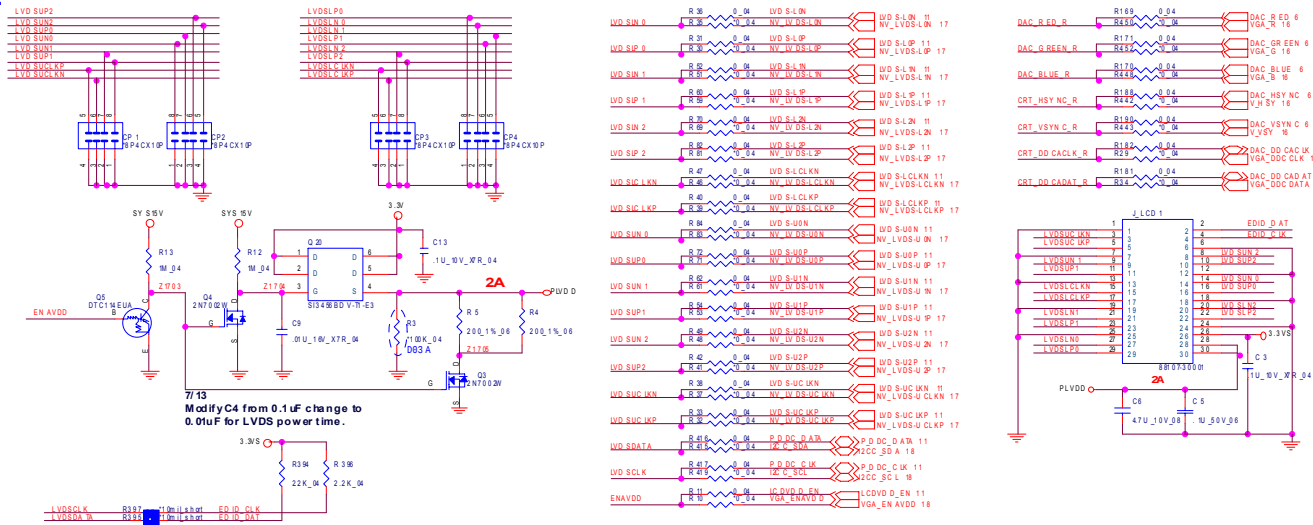


Panel, CRT

CRT



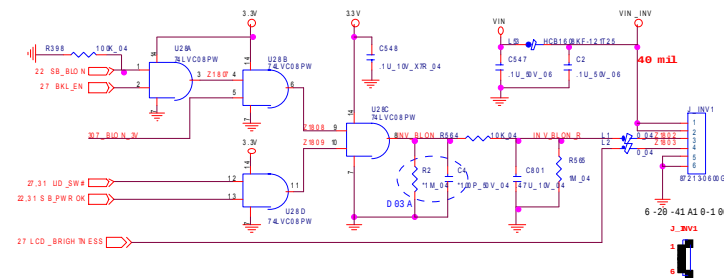
PANEL

Sheet 12 of 48
Panel, CRT

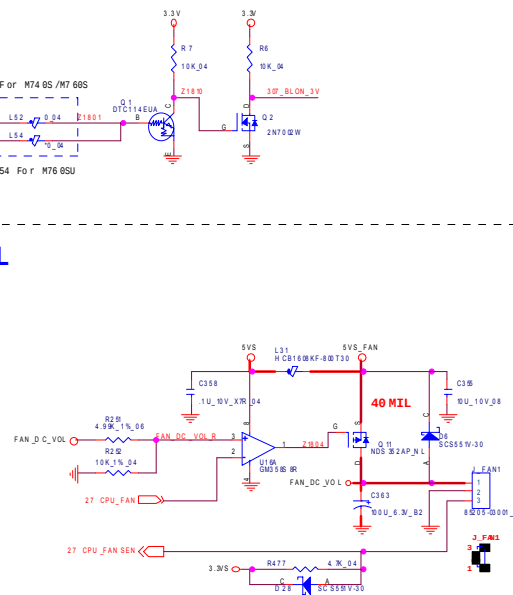
Inverter, Bluetooth, Fan

Sheet 13 of 48
Inverter, Bluetooth,
Fan

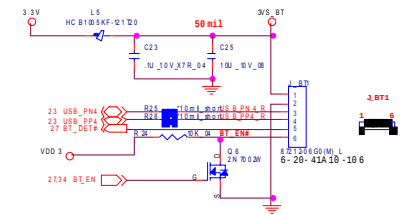
INVERTER CONNECTOR



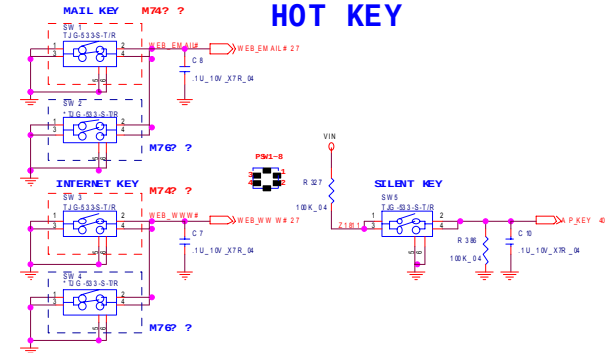
FAN CONTROL



Bluetooth

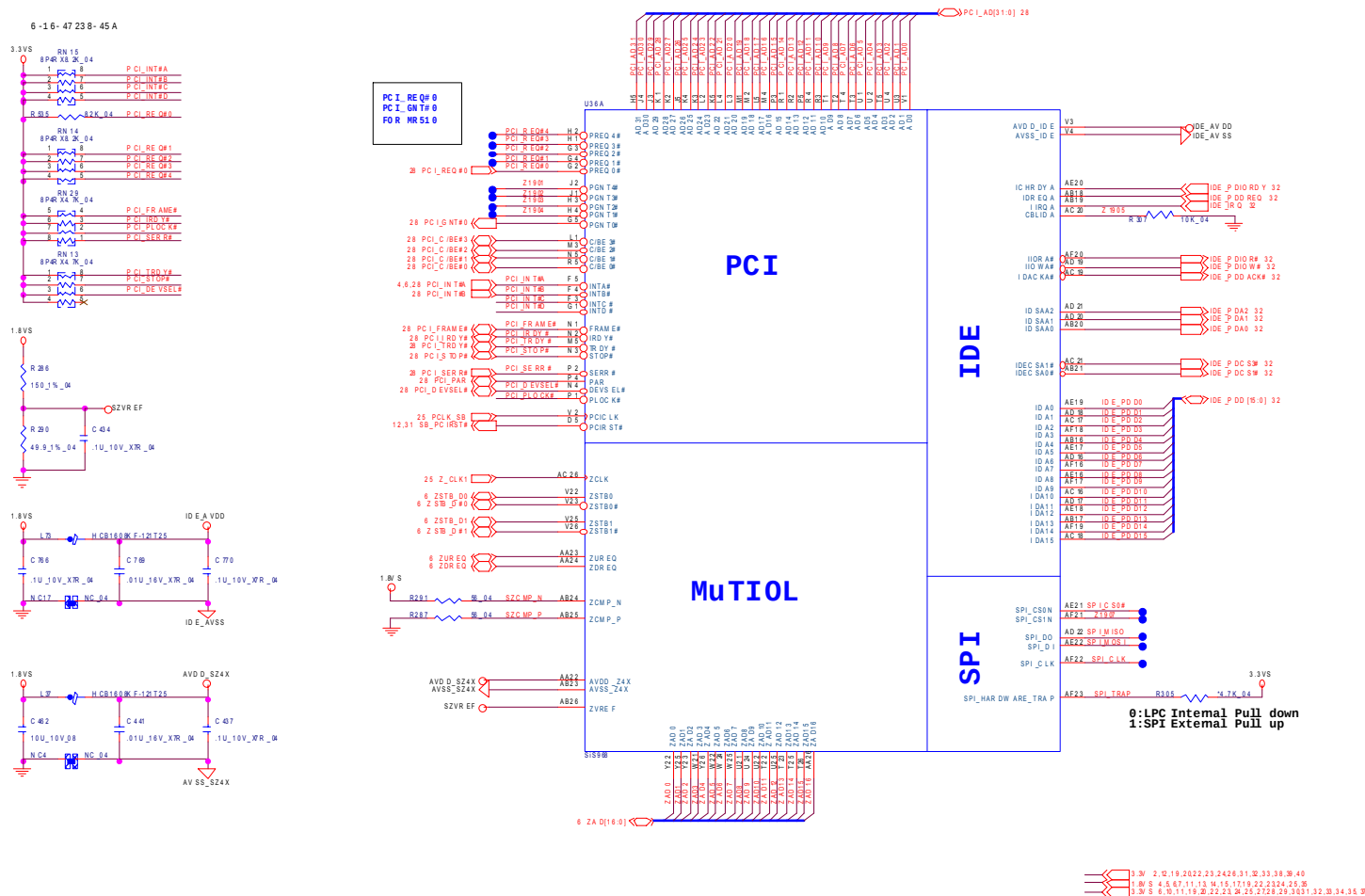


HOT KEY



Schematic Diagrams

968 PCI, IDE, MuTIOL, SPI 1/4

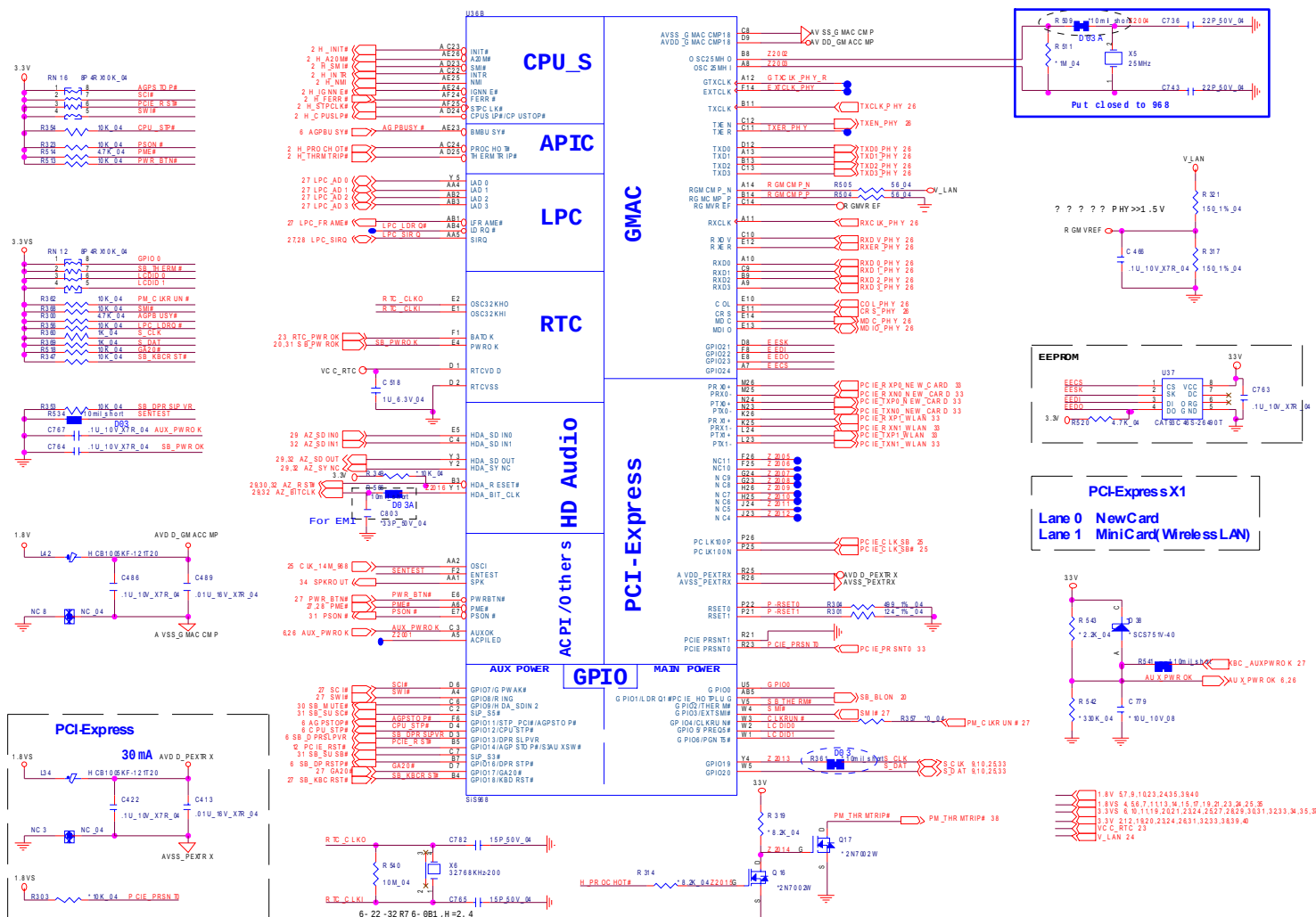


B.Schematic Diagrams

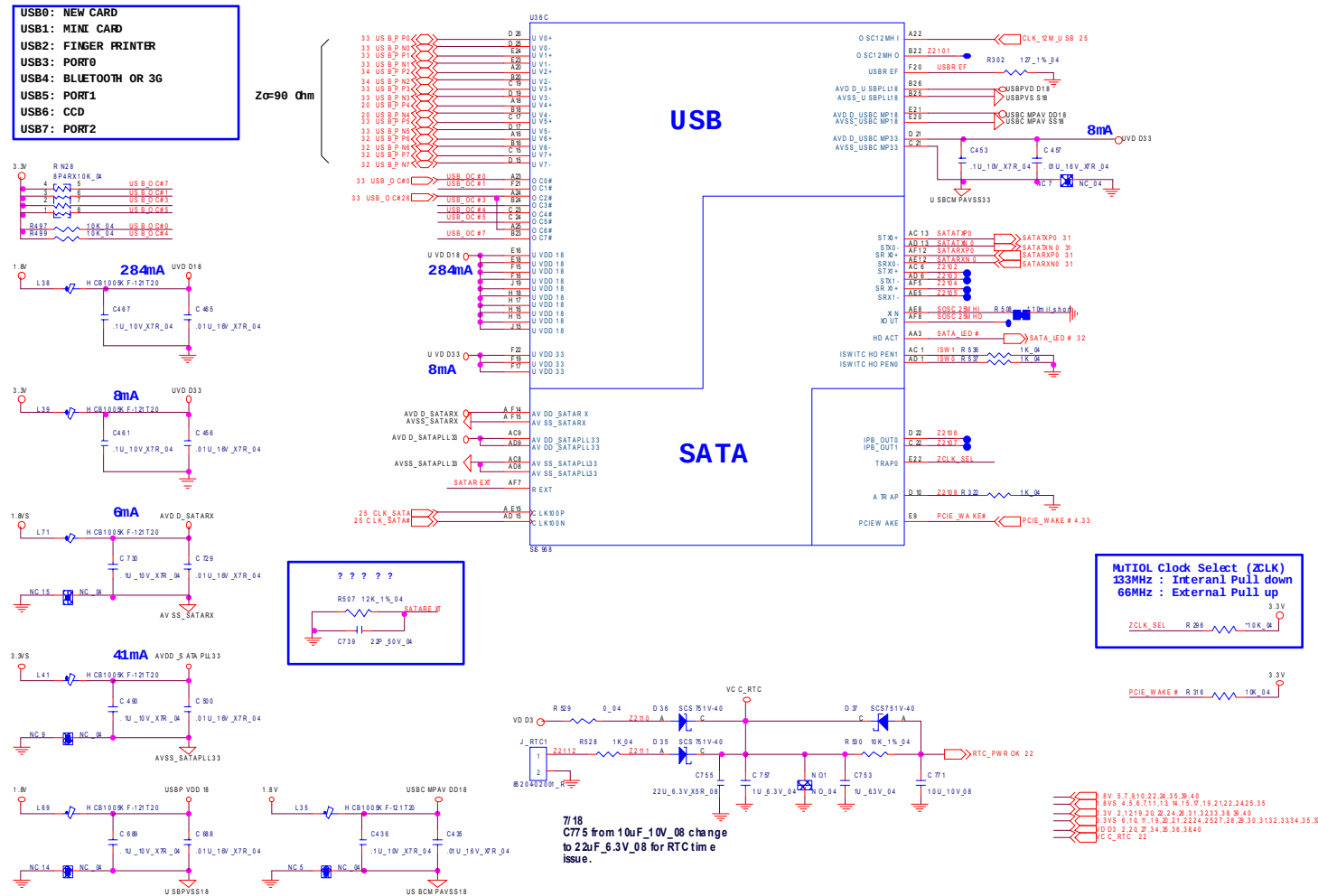
Sheet 14 of 48
968 PCI, IDE,
MuTIOL, SPI 1/4

B.Schematic Diagrams

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968 PCIE, LAN,
GPIO 2/4



968 USB SATA 3/4

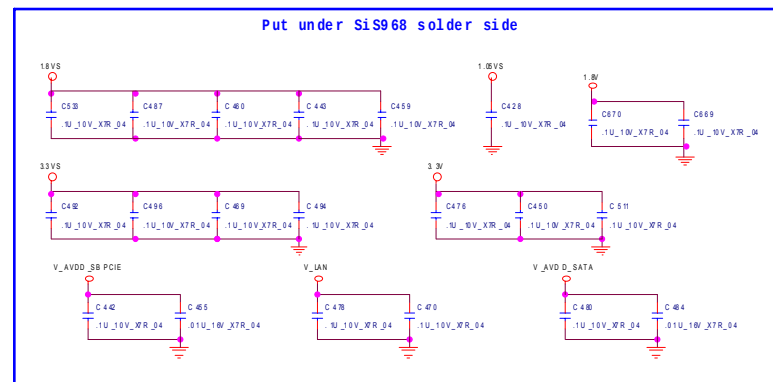
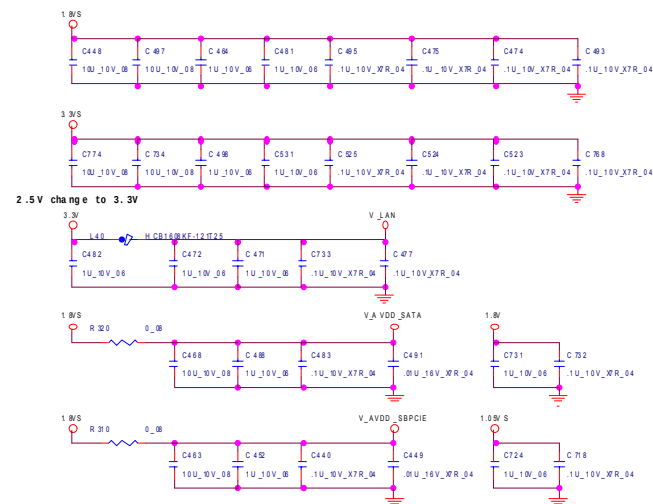
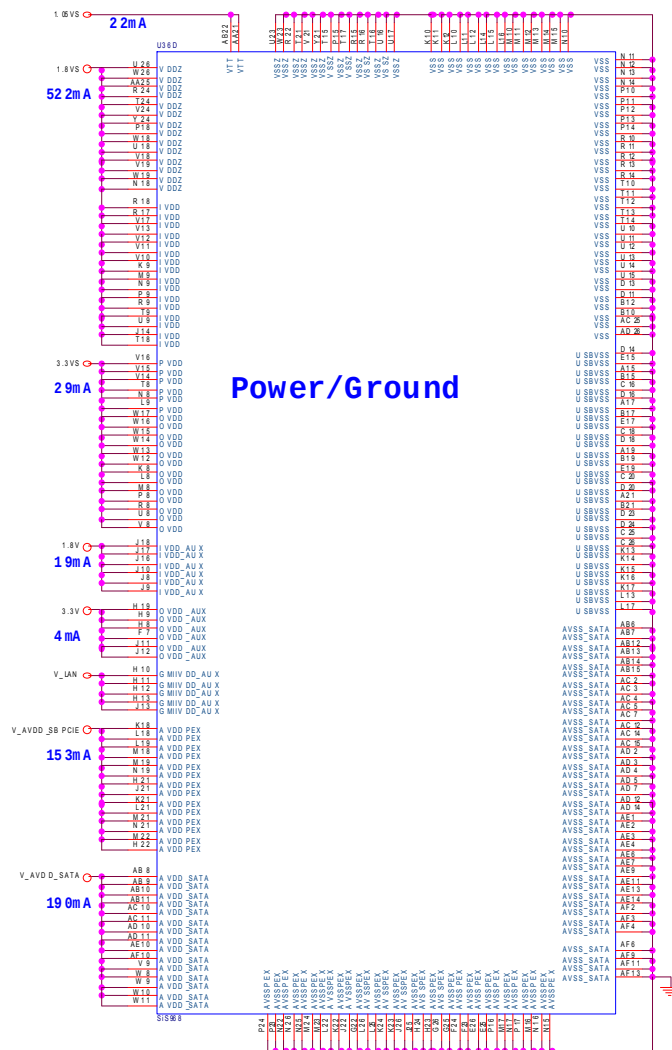
Sheet 16 of 48
968 USB SATA 3/4

Schematic Diagrams

968 PWR, GND 4/4

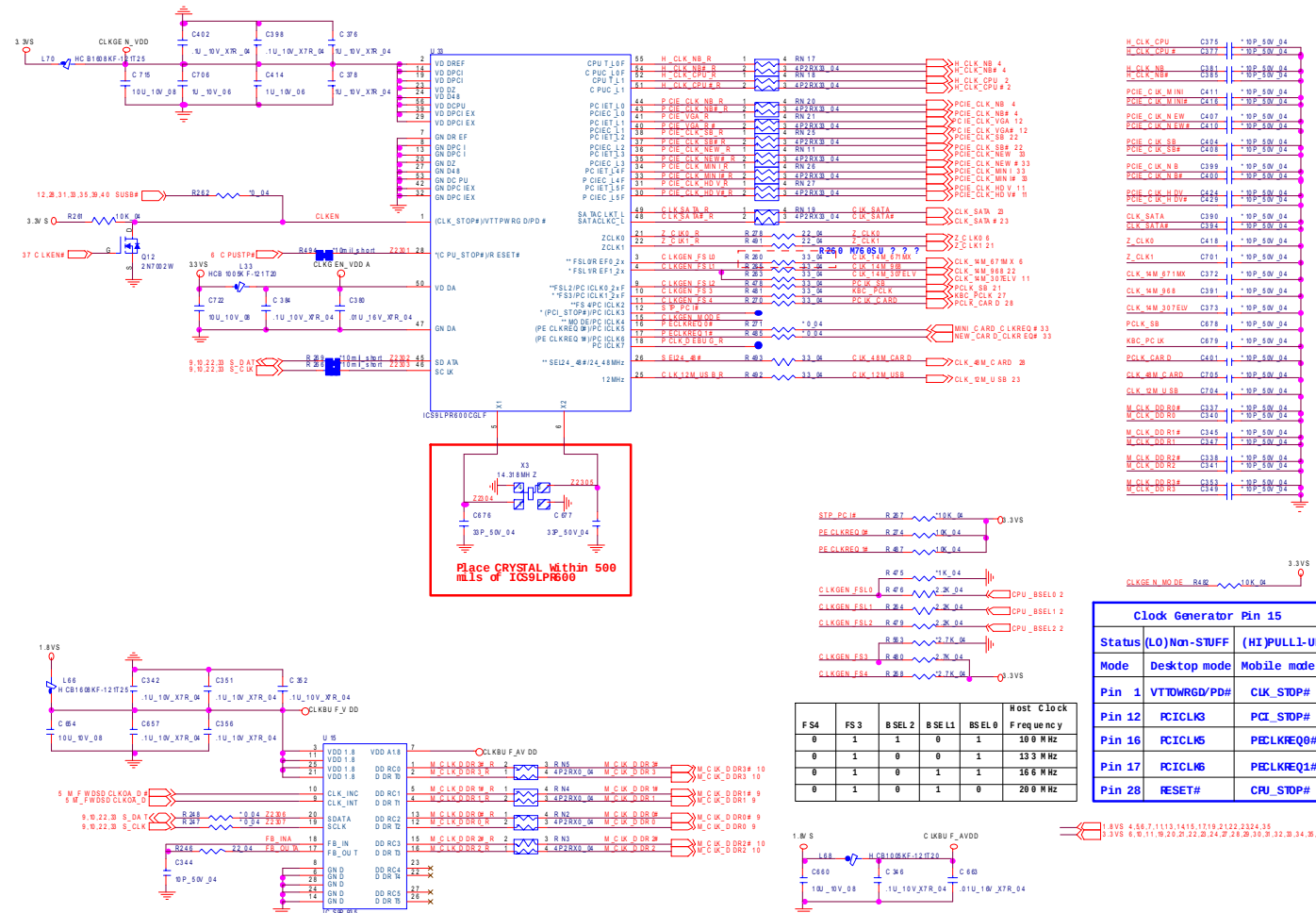
Sheet 17 of 48
968 PWR, GND 4/4

Power/Ground



105V 2.3, 4.6, 7.39
18V 5.7, 9.1, 22.2, 33.3, 40
18V 4.5, 6.7, 11.1, 13.1, 14.1, 15.1, 19.1, 22.2, 25.3
33V 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 2.8, 2.9, 3.0, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7
33V 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8, 6.9, 7.0, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 7.8, 7.9, 8.0, 8.1, 8.2, 8.3, 8.4, 8.5, 8.6, 8.7, 8.8, 8.9, 9.0, 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 9.7, 9.8, 9.9, 10.0
V_LAN 22

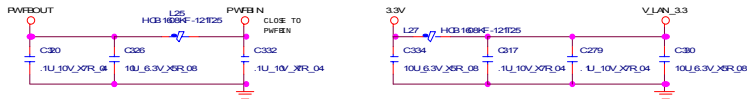
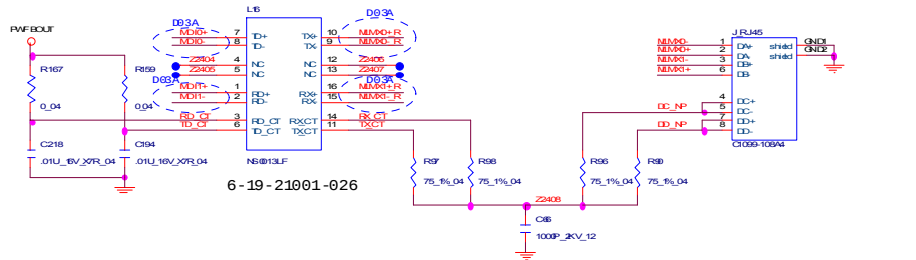
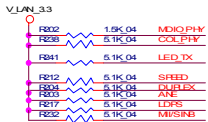
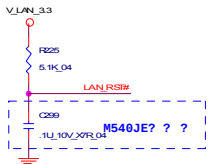
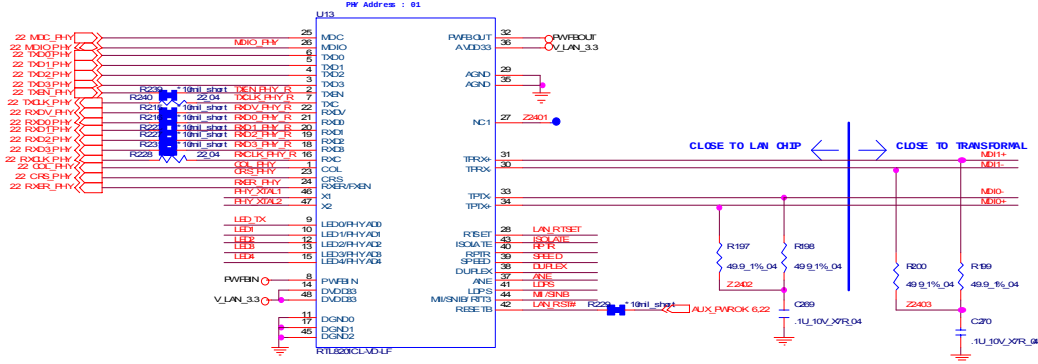
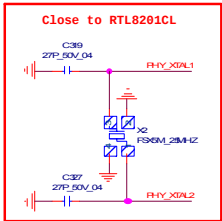
Clock Generator & Clock Buffer



Schematic Diagrams

PHY Realtek 8201CL

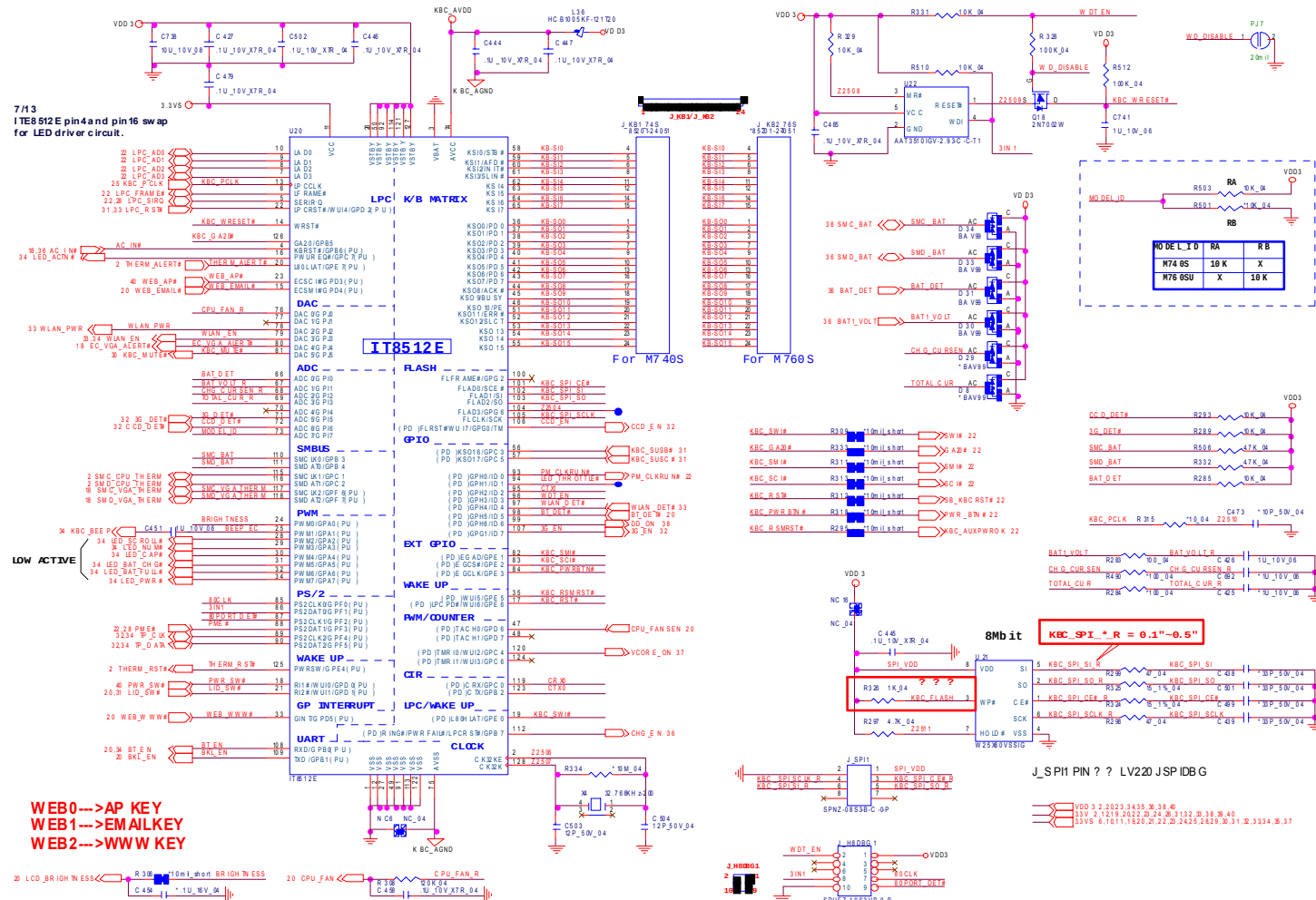
Sheet 19 of 48
PHY Realtek
8201CL



3.3V 2 8,19,20,22,23,24,31,32 38,39,40

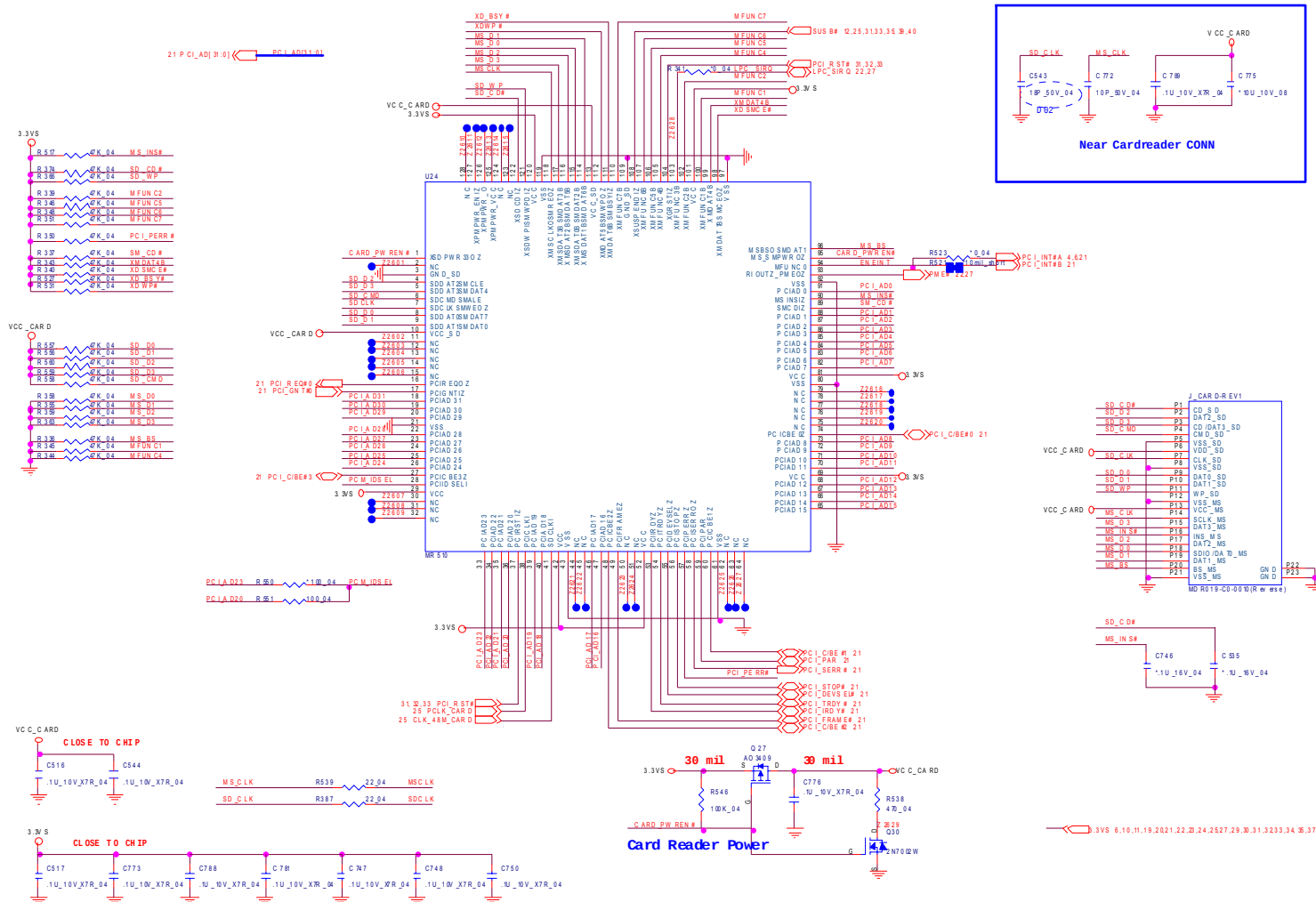
KBC ITE8512E B - 21

B.Schematic Diagrams

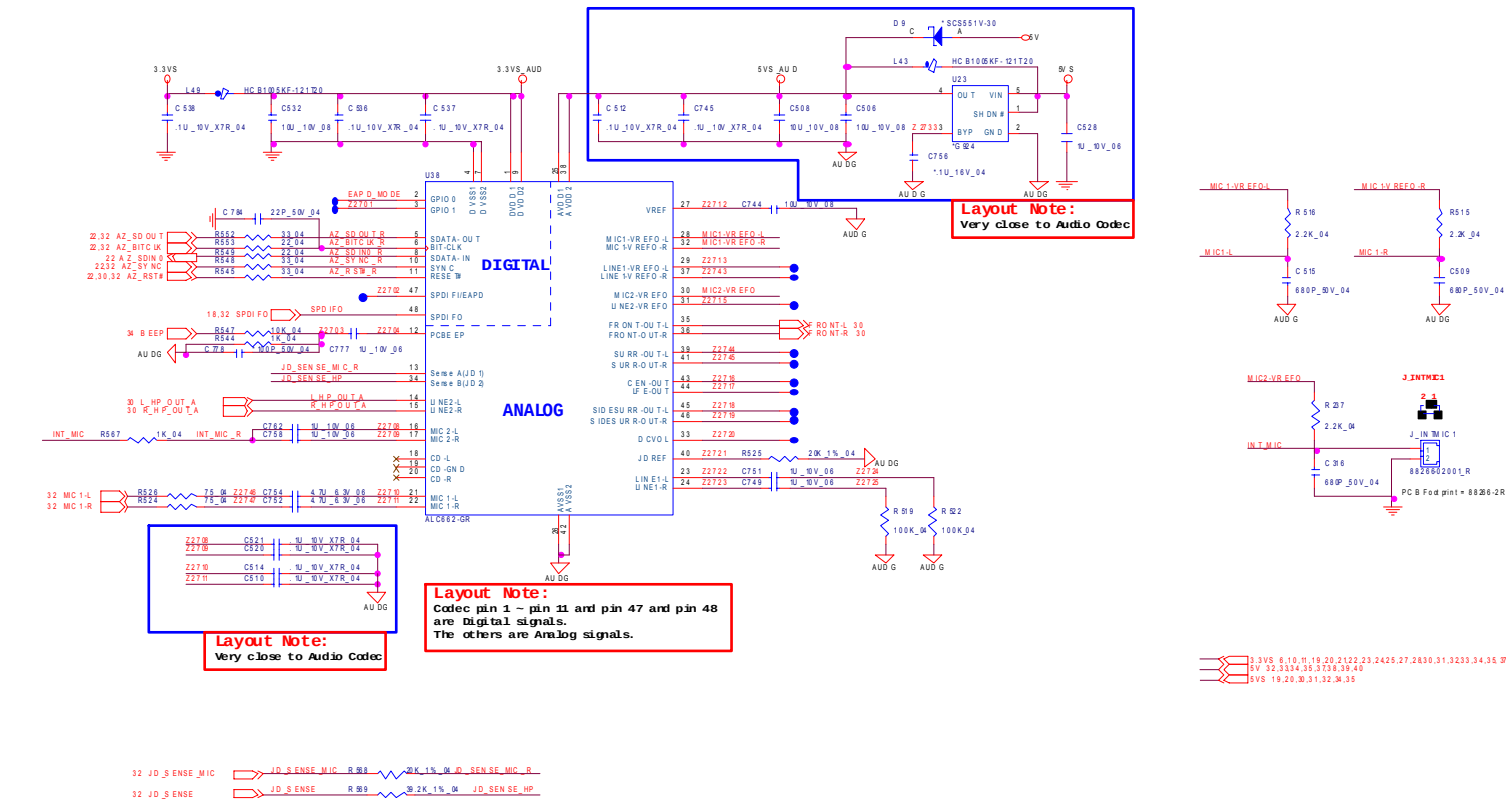


B.Schematic Diagrams

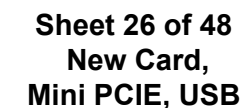
Sheet 21 of 48
ENE MR510,
Card Reader



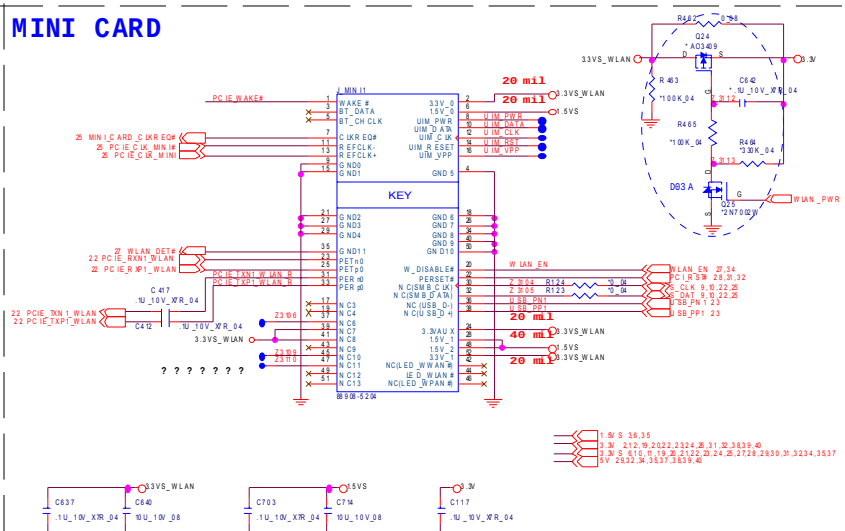
Audio Codec ALC662



NEW CARD



MINI CARD

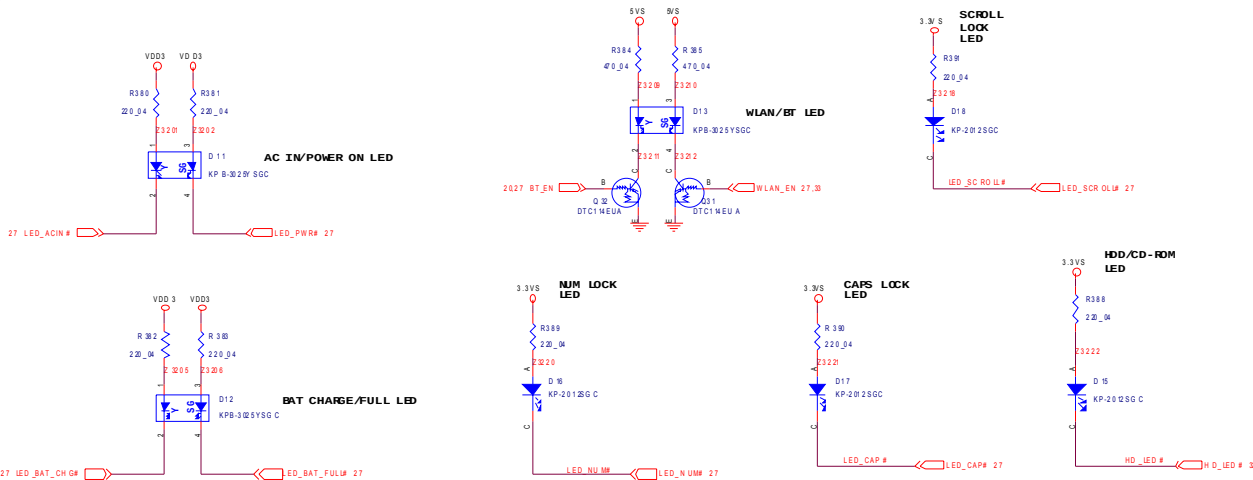


Schematic Diagrams

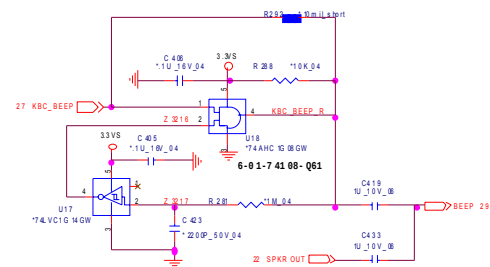
LED, PC Beep, TP, FP

Sheet 27 of 48
LED, PC Beep, TP,
FP

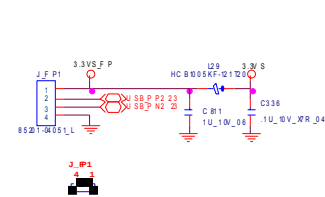
LED



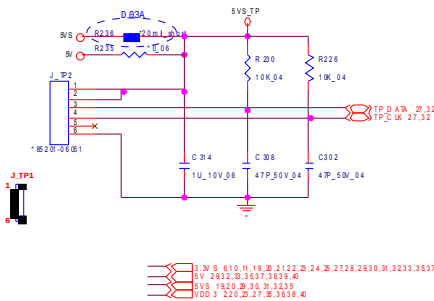
PC BEEP



FP CONN

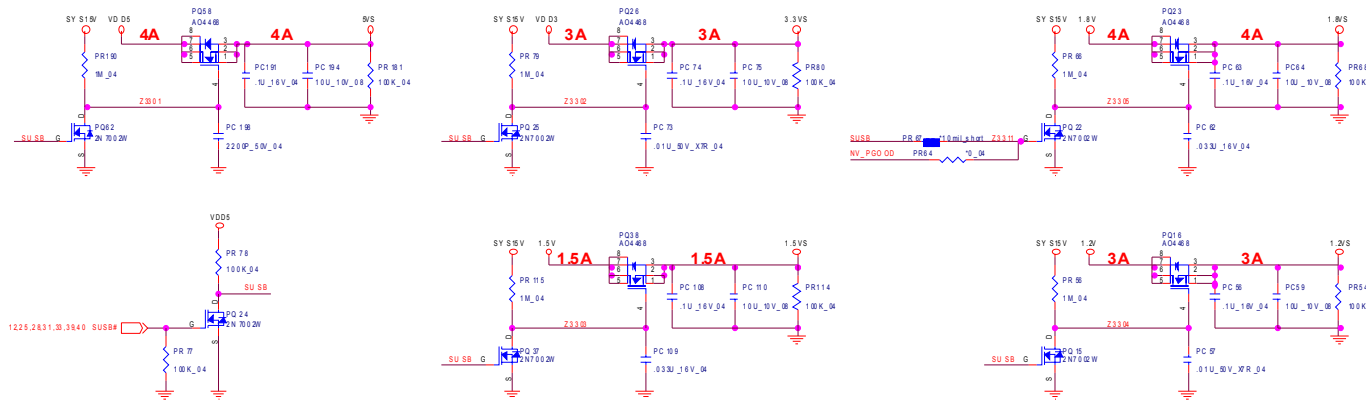


CLICK CONN For M76



System/Ext-VGA Power

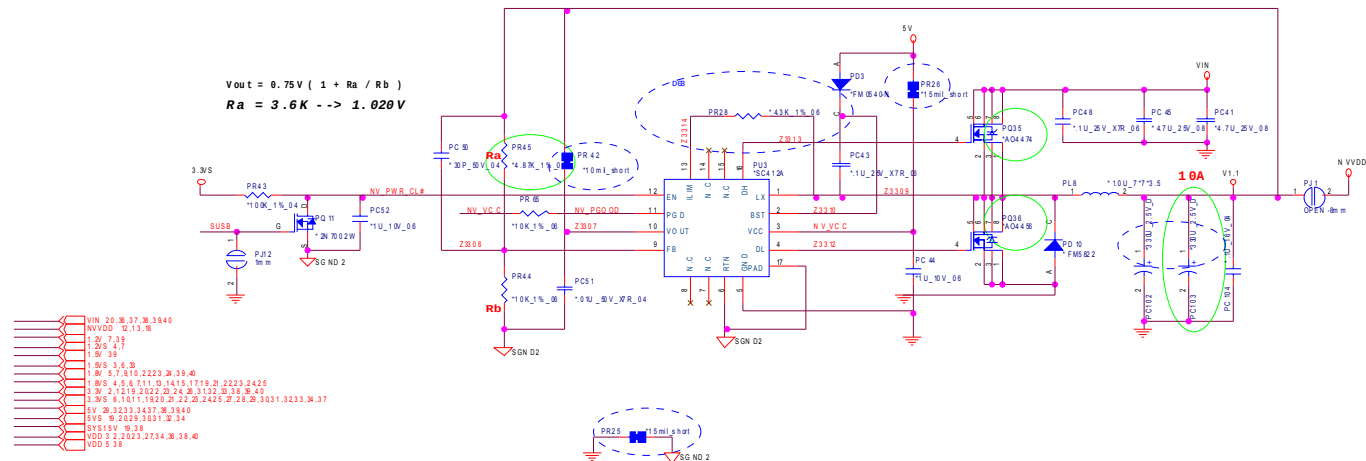
1.2VS, 1.5VS, 1.8VS, 3.3VS, 5VS



Sheet 28 of 48
System/Ext-VGA
Power

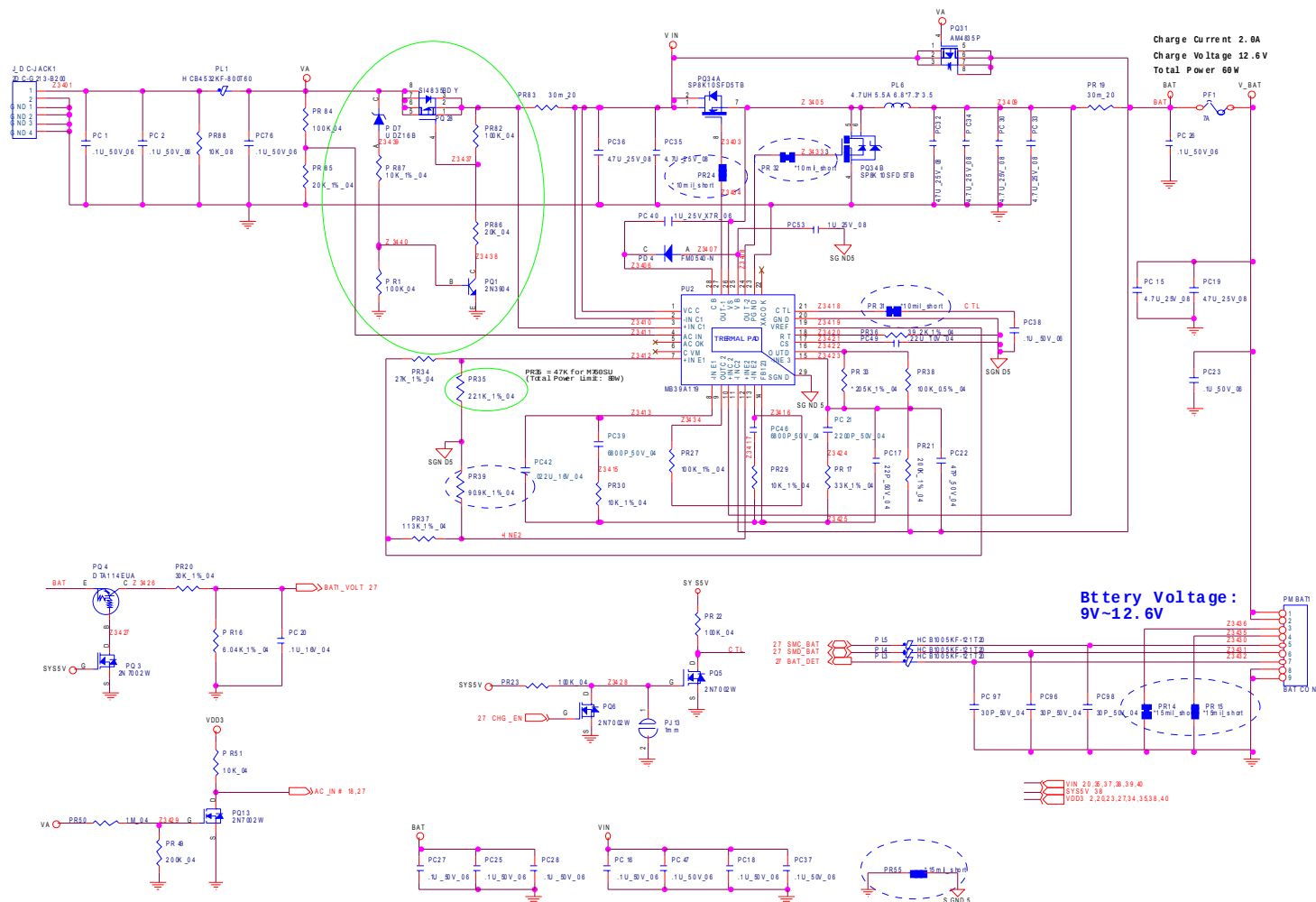
B.Schematic Diagrams

M760US



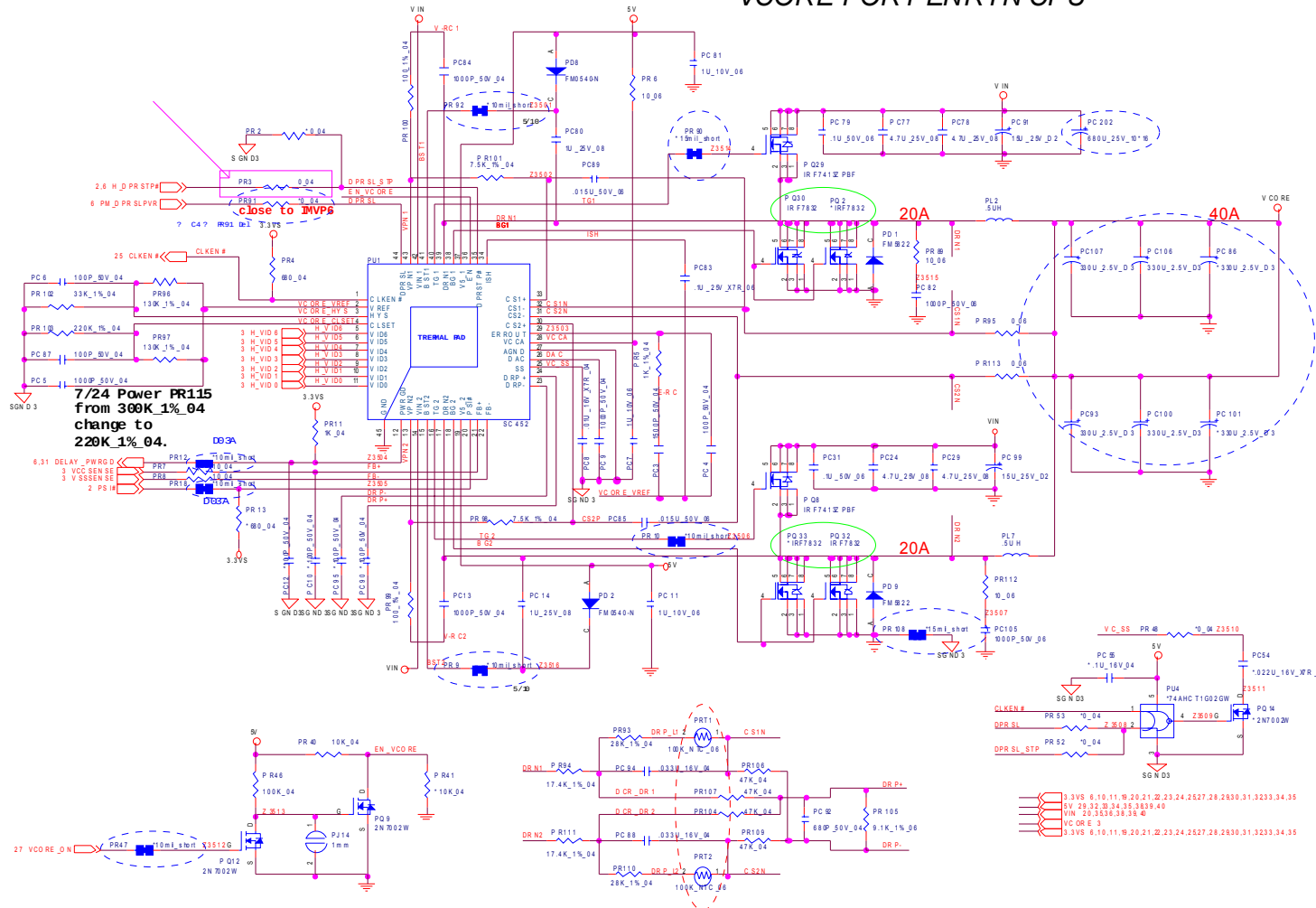
B.Schematic Diagrams

Sheet 29 of 48
AC-IN, Charger



VCORE

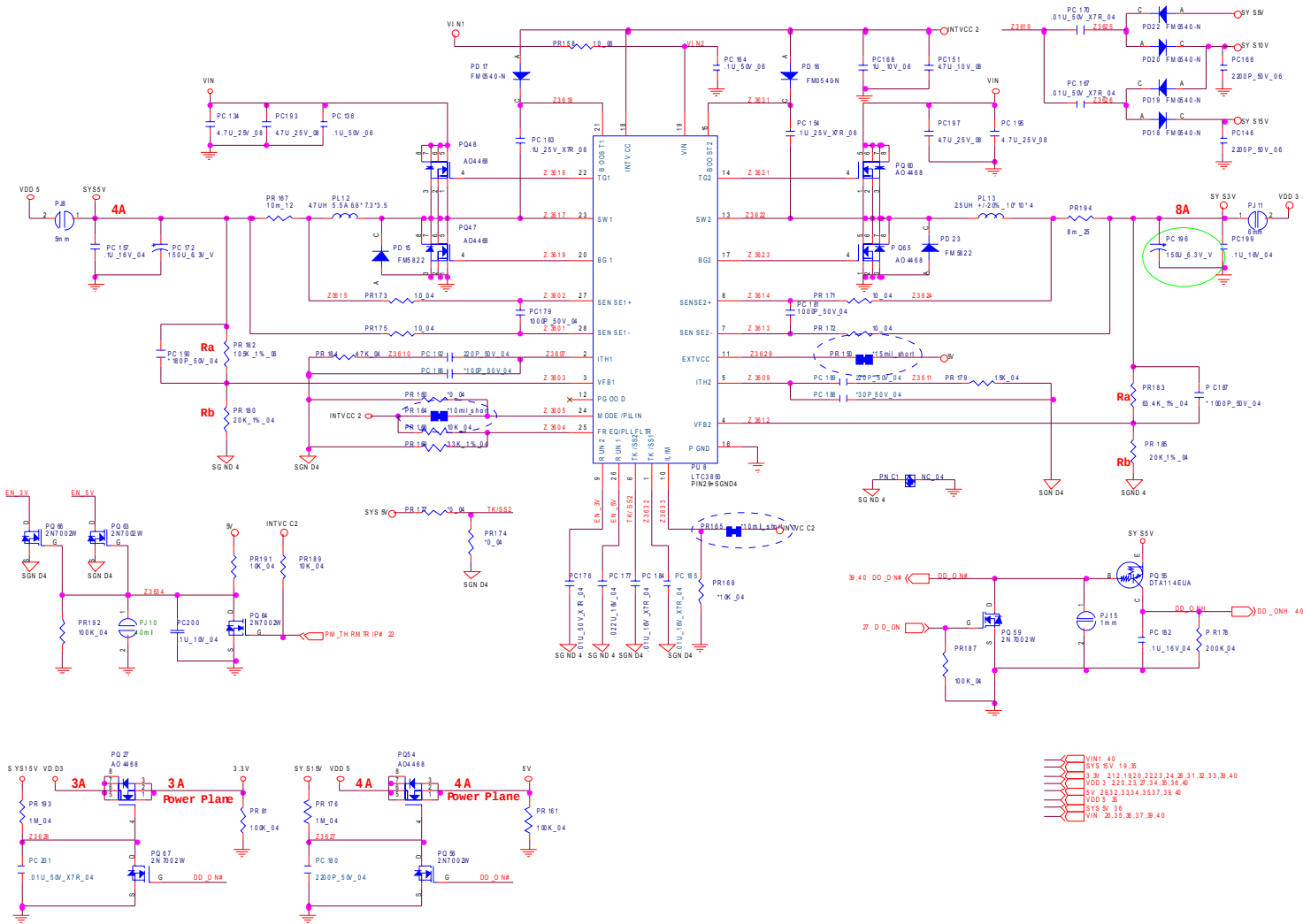
VCORE FOR PENRYN CPU

Sheet 30 of 48
VCORE

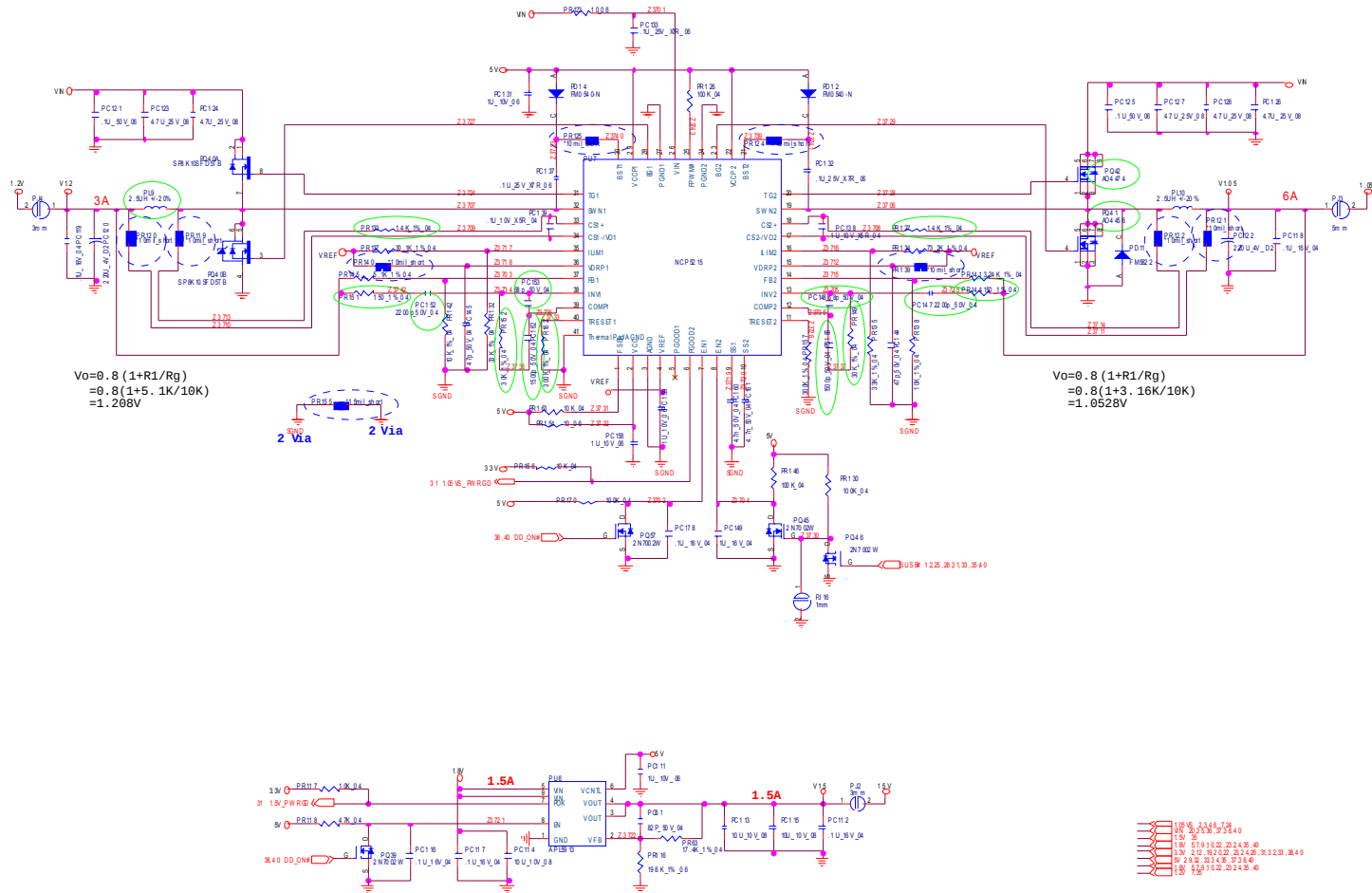
Schematic Diagrams

VDD3, VDD5)

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VDD3, VDD5

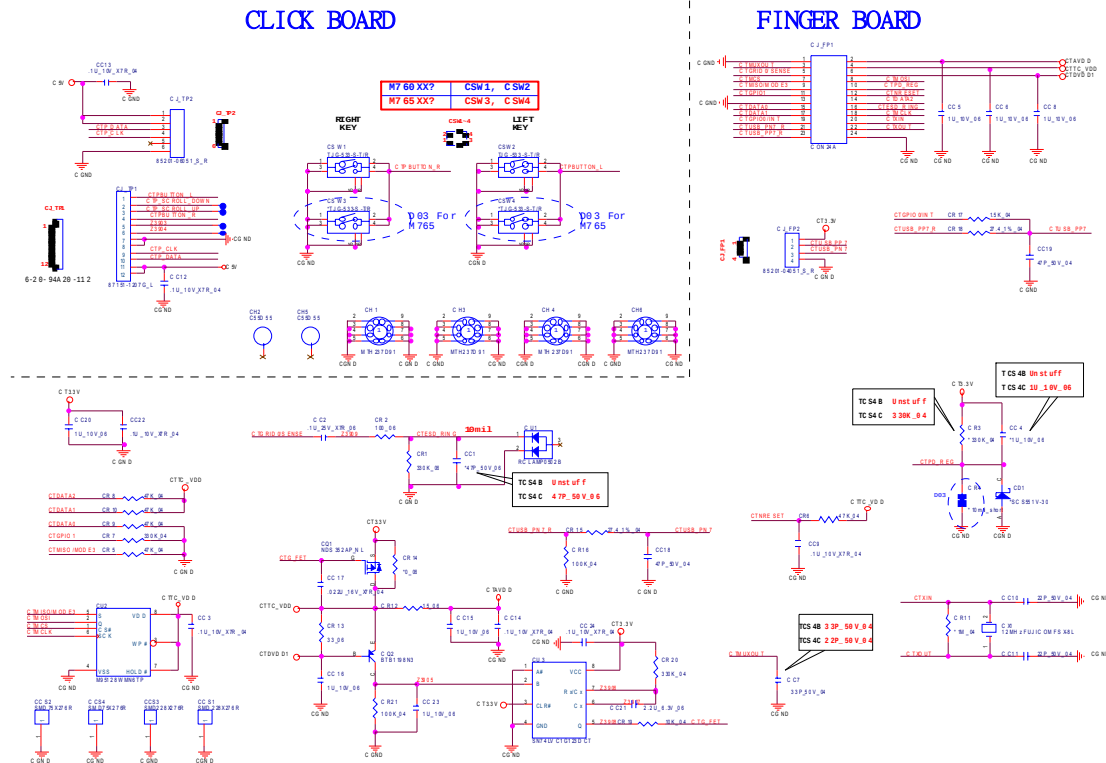


1.05VS, 1.2V, 1.5V



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1.05VS, 1.2V, 1.5V

Click BD, Finger BD for M76



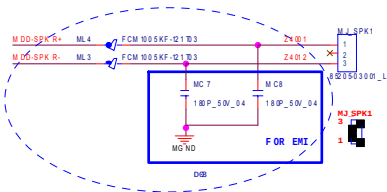
Sheet 34 of 48
Click BD, Finger BD
for M76

Schematic Diagrams

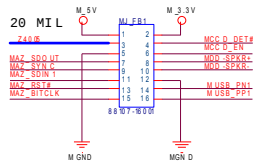
Multi Function Board

Sheet 35 of 48
Multi Function
Board

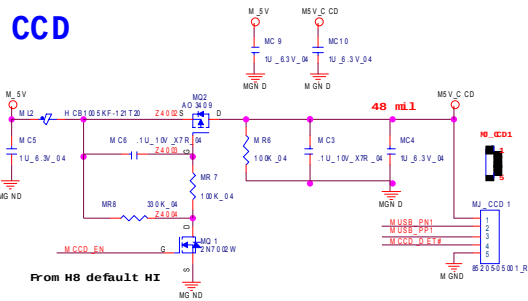
SPEAKER CONNECTOR



MULTI I/O CONN

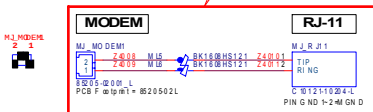


CCD

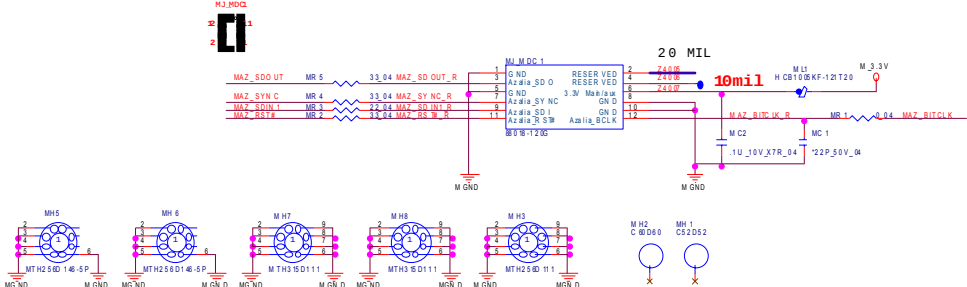


RJ-11

?? ? ? ? ? ? ? ?
?? 2.5mm ??

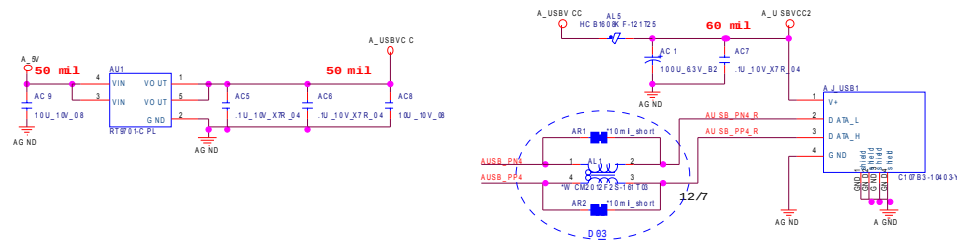


MDC MODULE

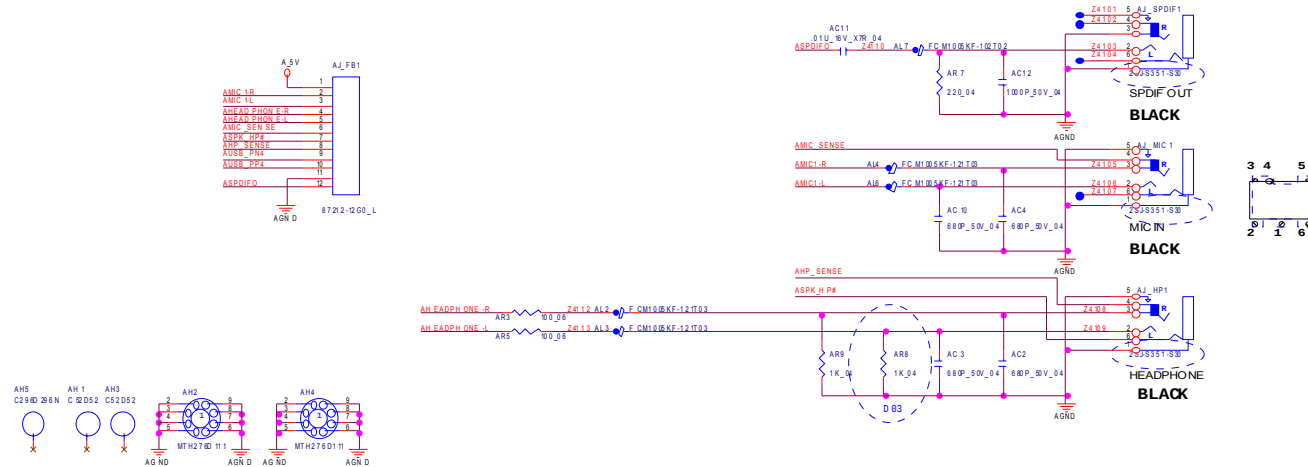


Audio Board

USB PORT



AUDIO JACK



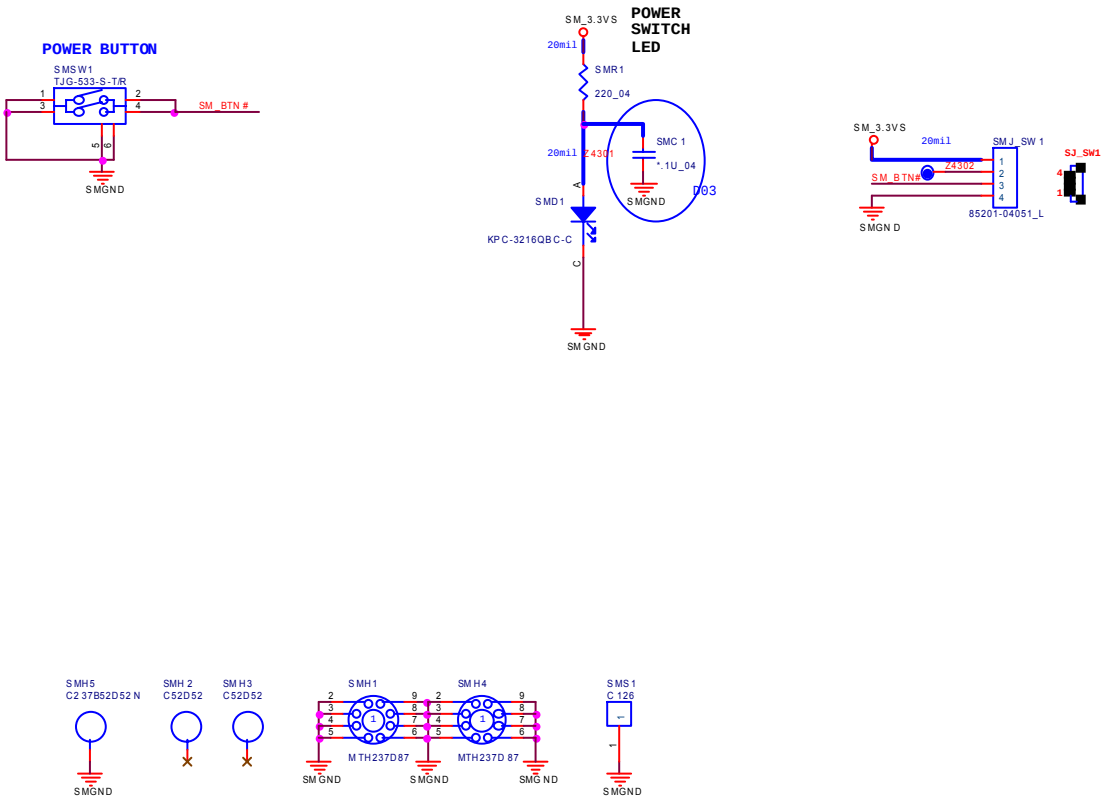
Sheet 36 of 48
Audio Board

Schematic Diagrams

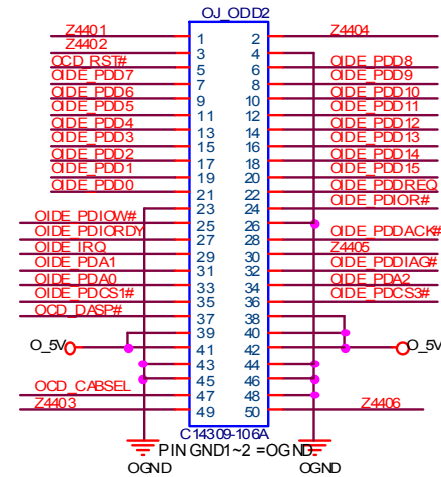
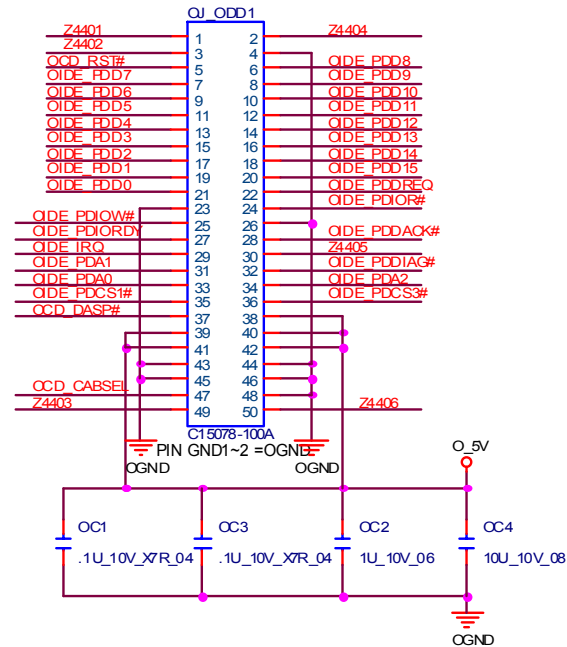
Power Switch Board for M74

POWER SW & POWER LED FOR M74

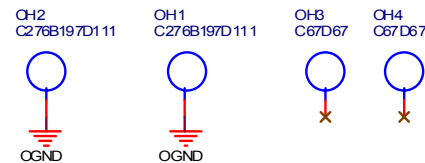
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Power Switch
Board for M74



External ODD Board for M76



Sheet 38 of 48
External ODD
Board for M76



Schematic Diagrams

Power Switch Board for M76

POWER SW & POWER LED FOR M76

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Power Switch
Board for M76

