

Appendix B: Schematic Diagrams

This appendix has circuit diagrams of the *M540SS/M548SS/M549SS* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

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<i>LAN PHY Realtek 8201CL - Page B - 13</i>	<i>MDC, BT, PWRGD, DDB CON - Page B - 26</i>	
<i>968 PCI IDE MuTIOL SPI 1/4 - Page B - 14</i>	<i>TouchPad, LED - Page B - 27</i>	

Table B - 1
**Schematic
Diagrams**

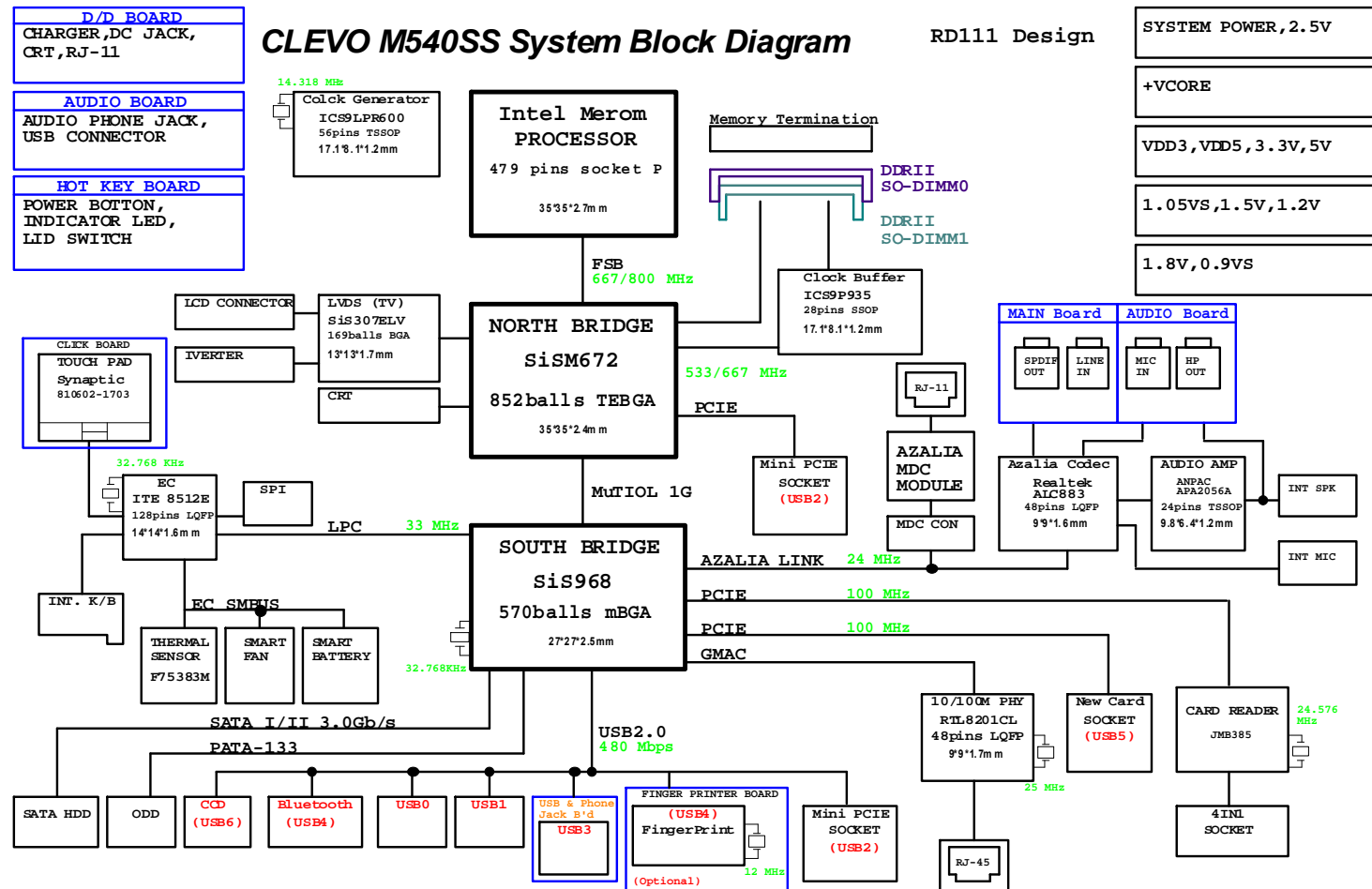


Version Note

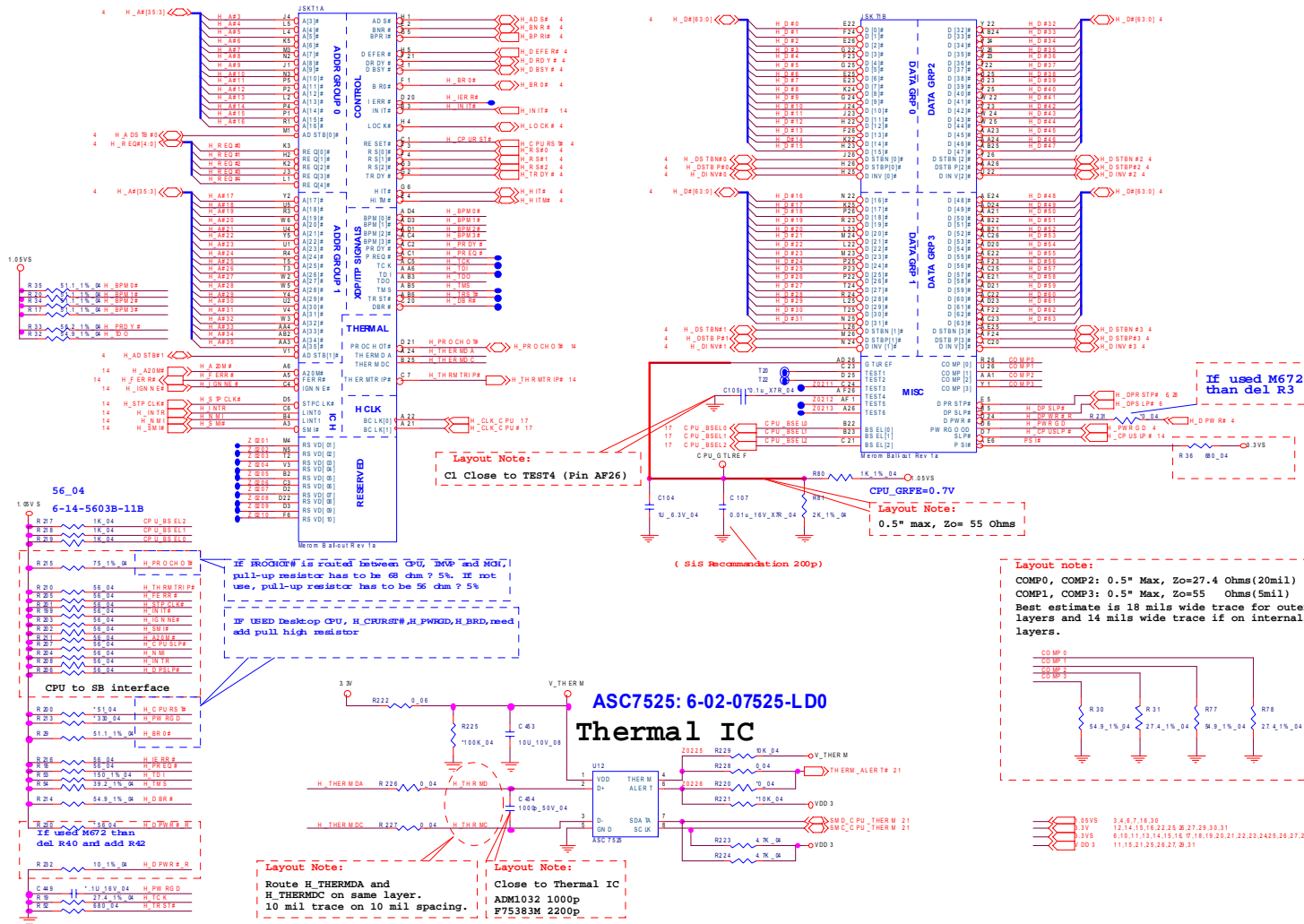
The schematic diagrams in this chapter are based upon version 6-7P-M5SS6-002. If your mainboard (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 37
System Block
Diagram



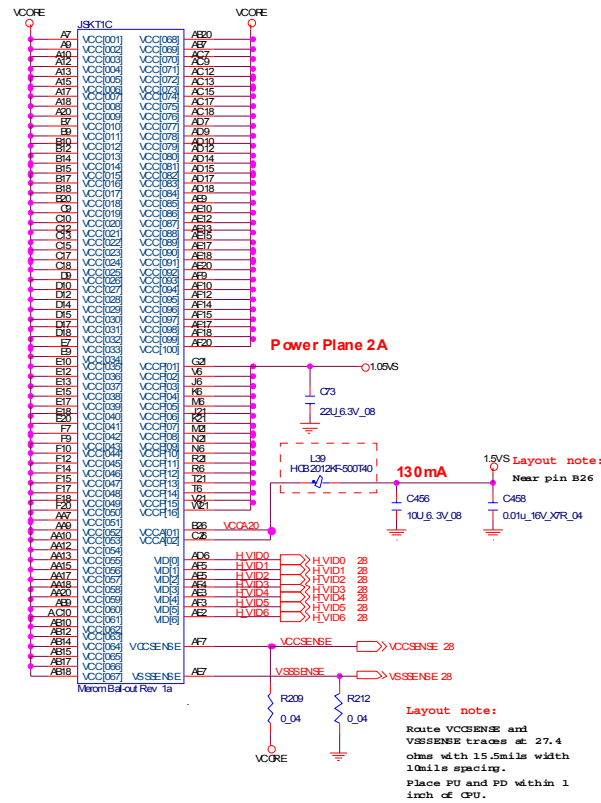
Processor 1/2

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Processor 1/2

Schematic Diagrams

Processor 2/2

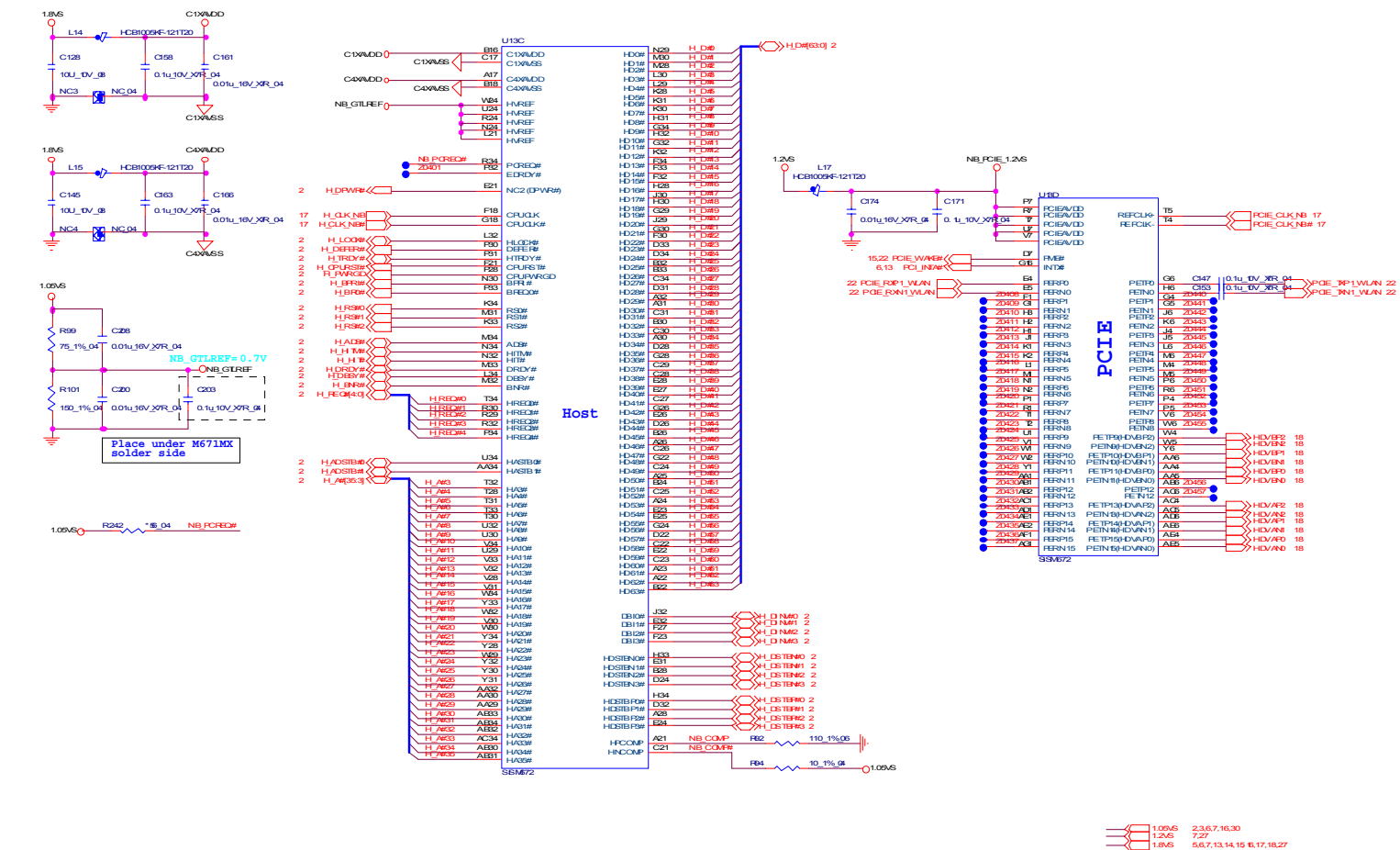
Sheet 3 of 37
Processor 2/2



Check cap for santa rosa platform



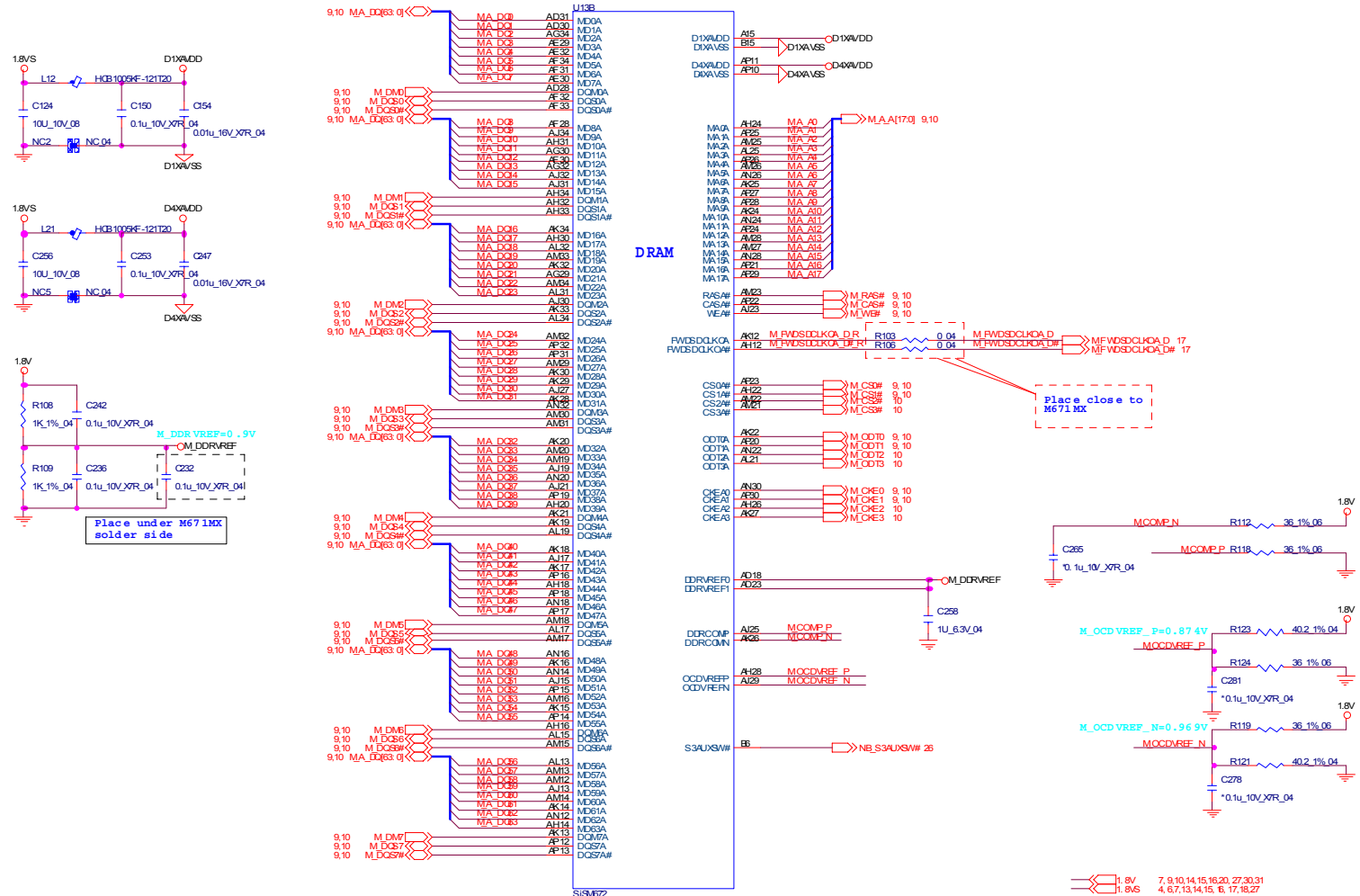
SiSM672 HOST PCIE 1/5



Schematic Diagrams

SiSM672 DRAM 2/5

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SiSM672 DRAM 2/5



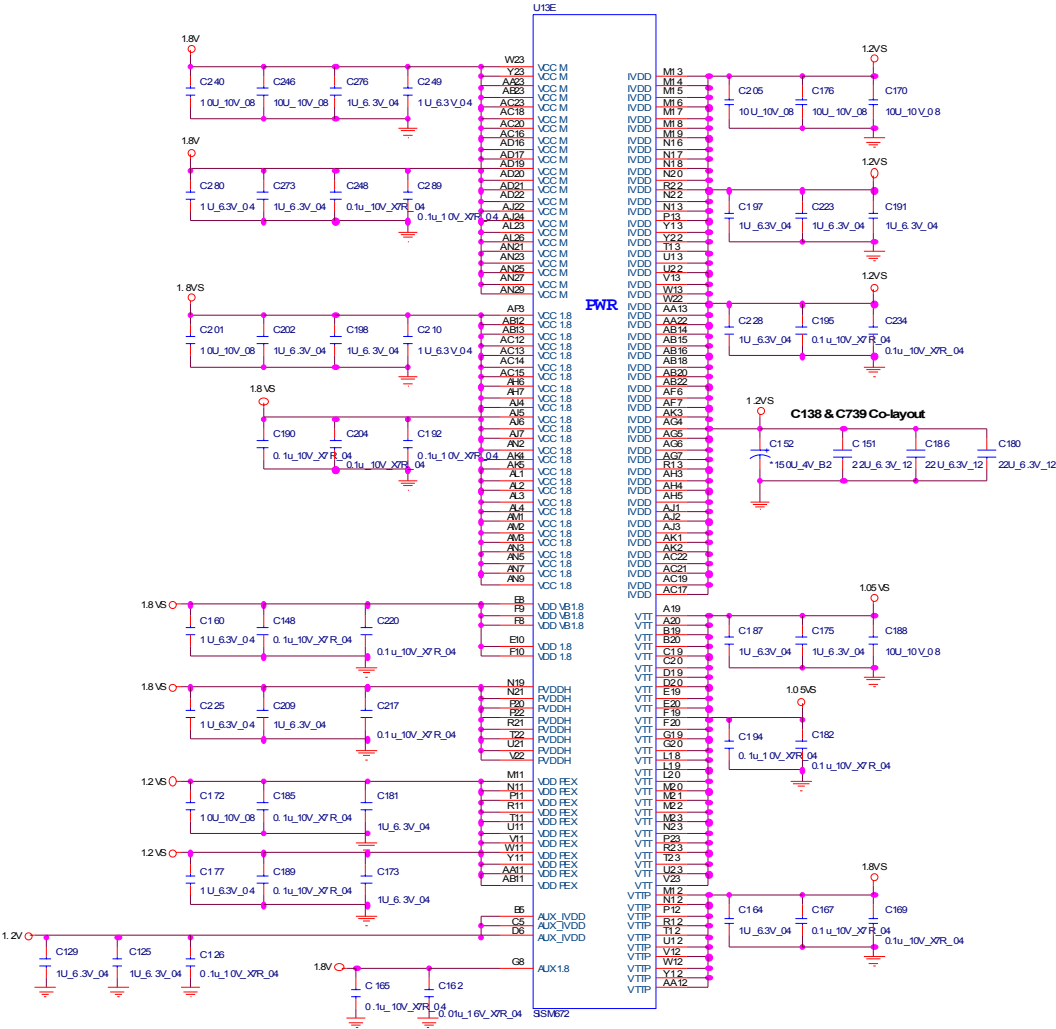
Sheet 6 of 37
SiSM672 MuTITOL
VGA 3/5



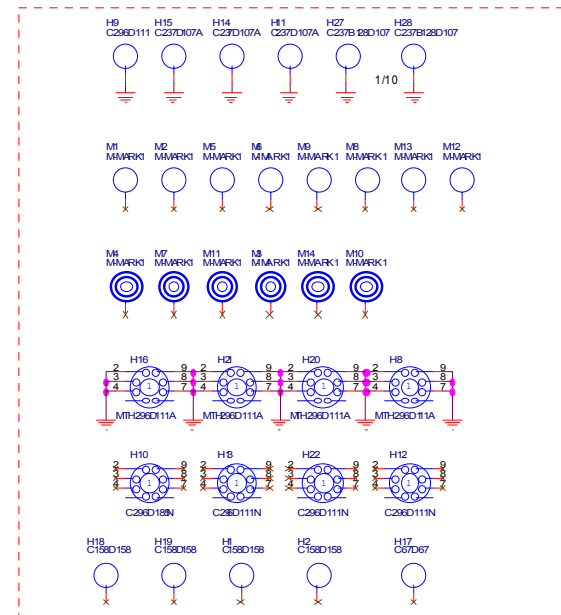
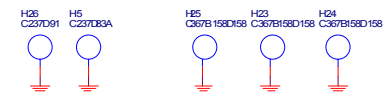
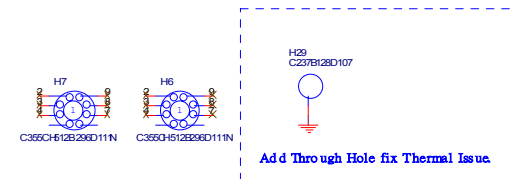
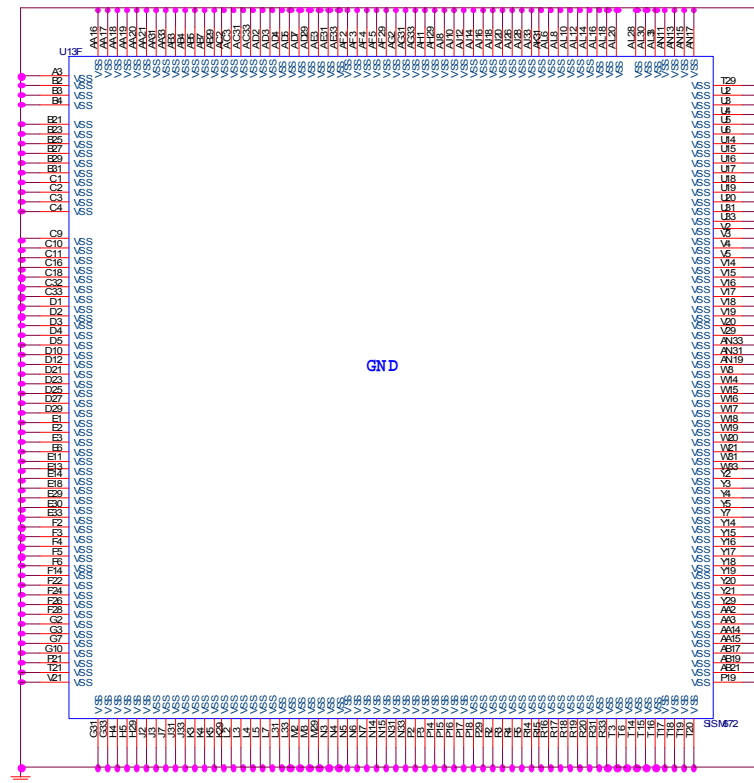
Schematic Diagrams

SiSM672 PWR 4/5

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SiSM672 PWR 4/5



SiSM672 GND 5/5



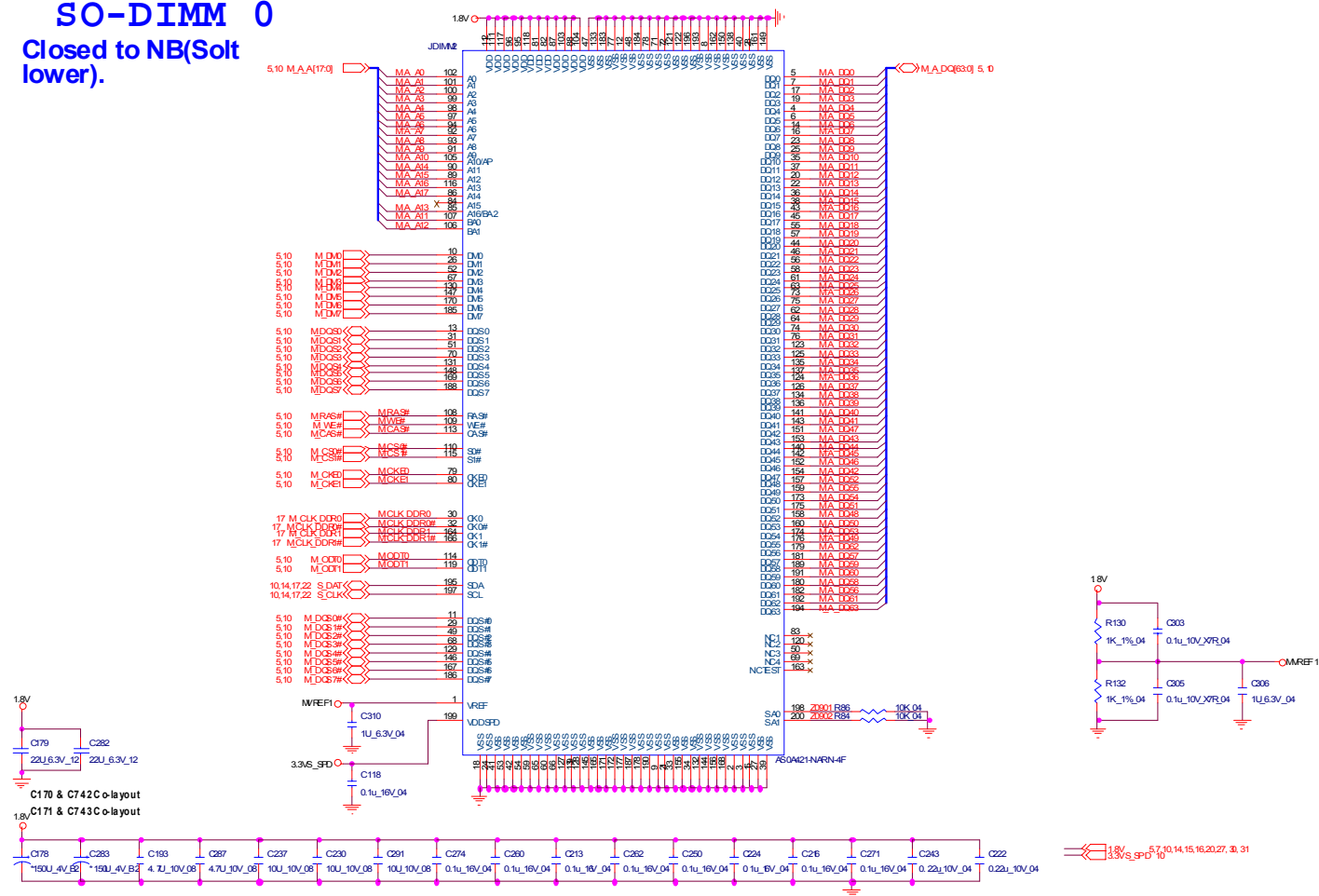
Sheet 8 of 37
SiSM672 GND 5/5

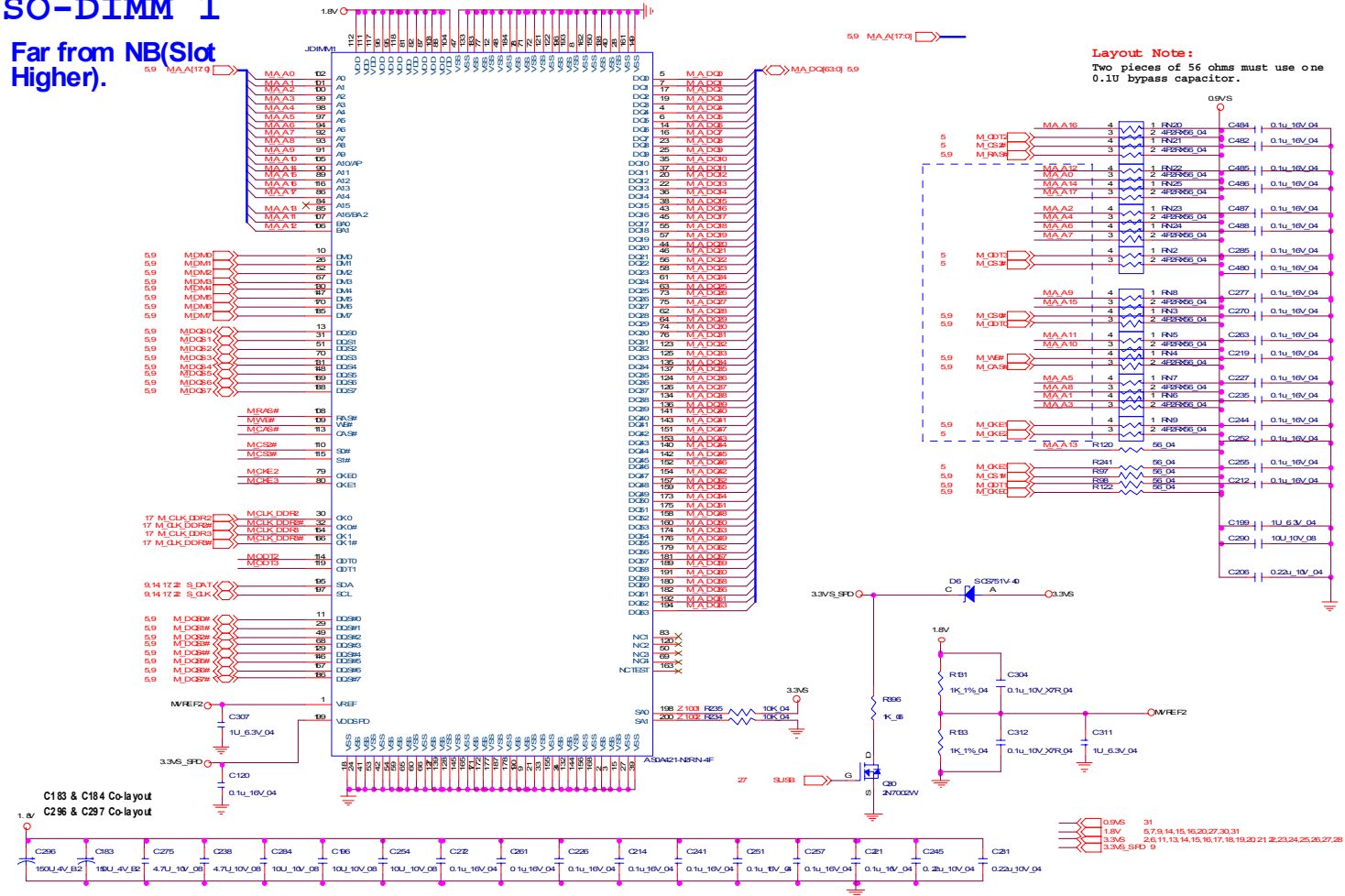
DDRII SO-DIMM - 2

SO-DIMM 0
Closed to NB(Solt lower).

B.Schematic Diagrams

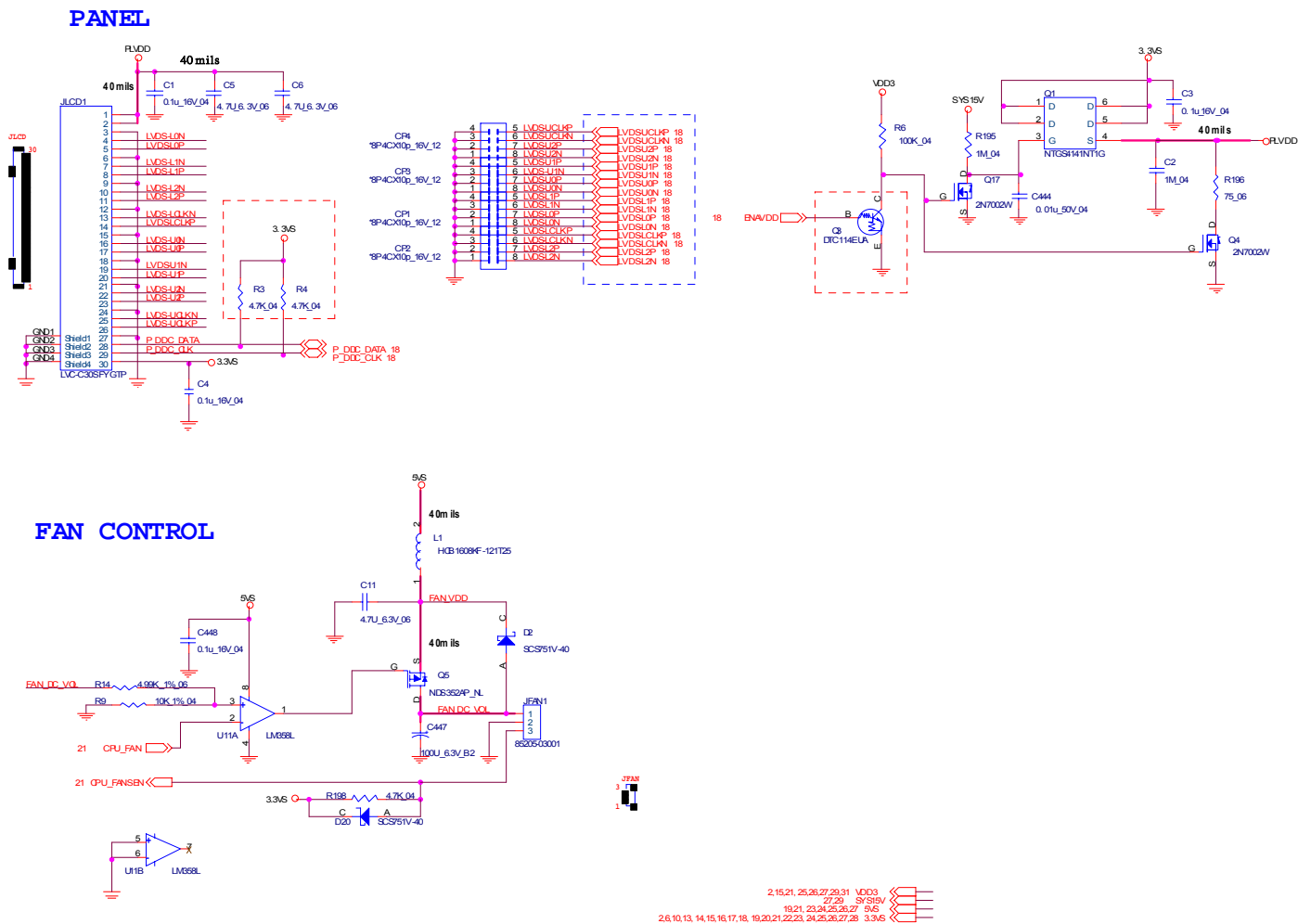
Sheet 9 of 37
DDRII SO-DIMM - 2



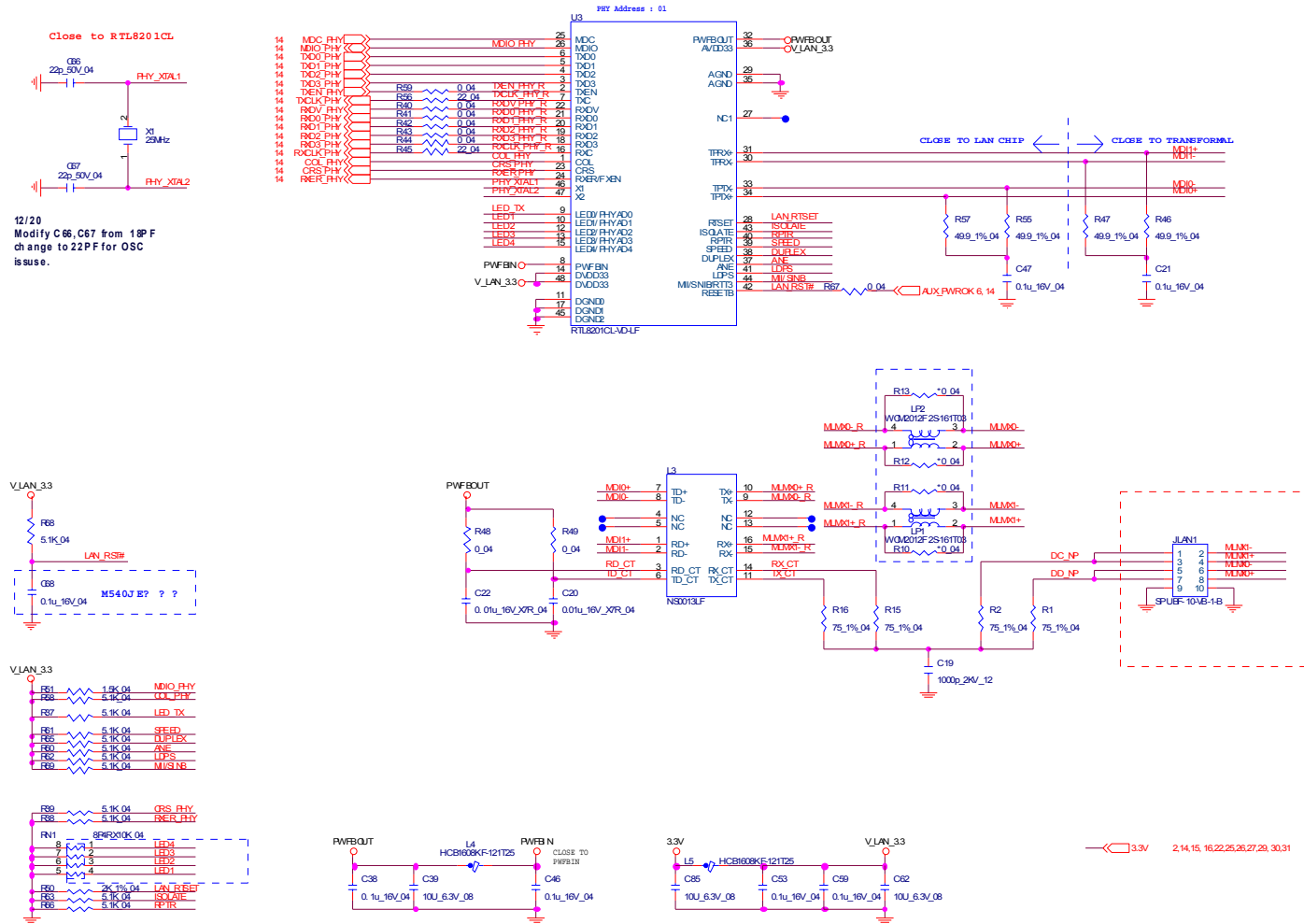


Panel, Fan

Sheet 11 of 37
Panel, Fan



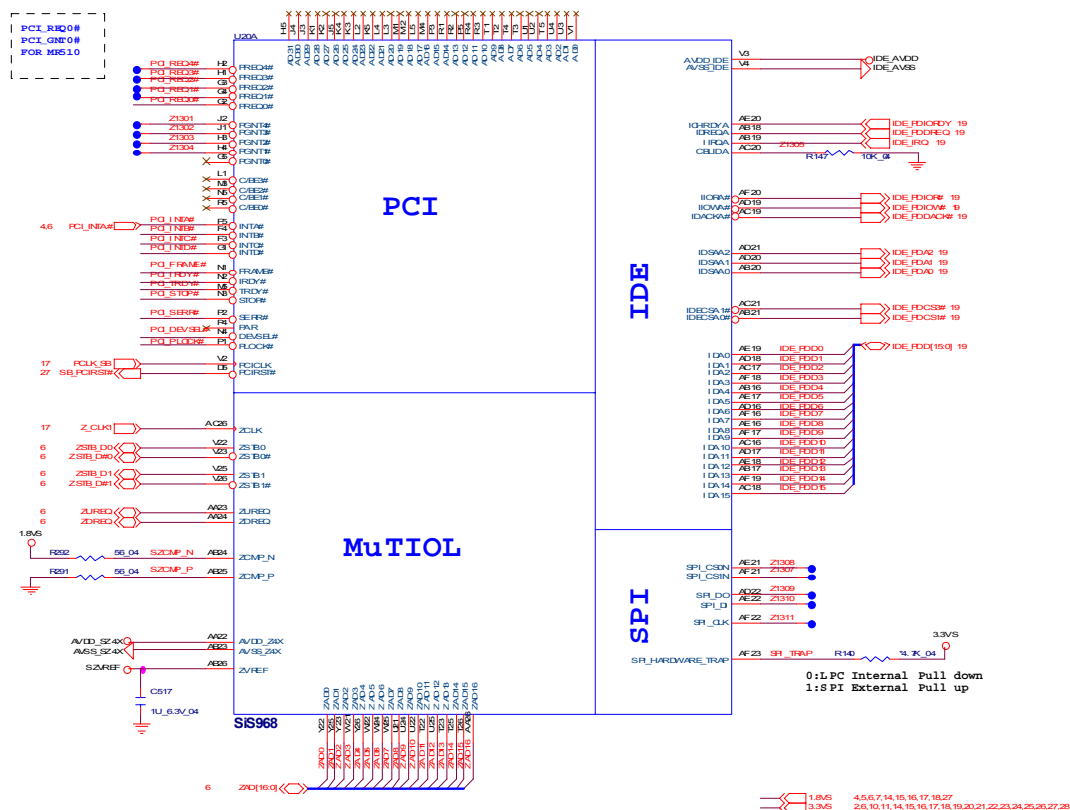
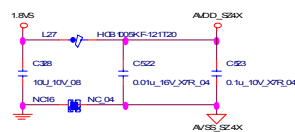
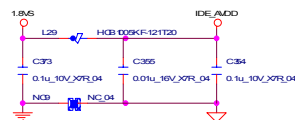
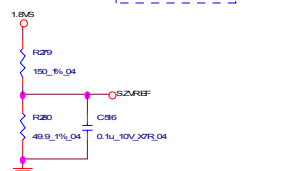
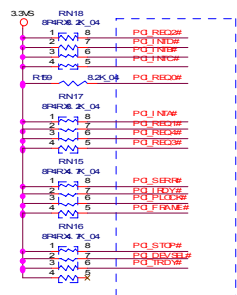
LAN PHY Realtek 8201CL



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LAN PHY Realtek
8201CL

968 PCI IDE MuTIOL SPI 1/4

6-16-47238-45A



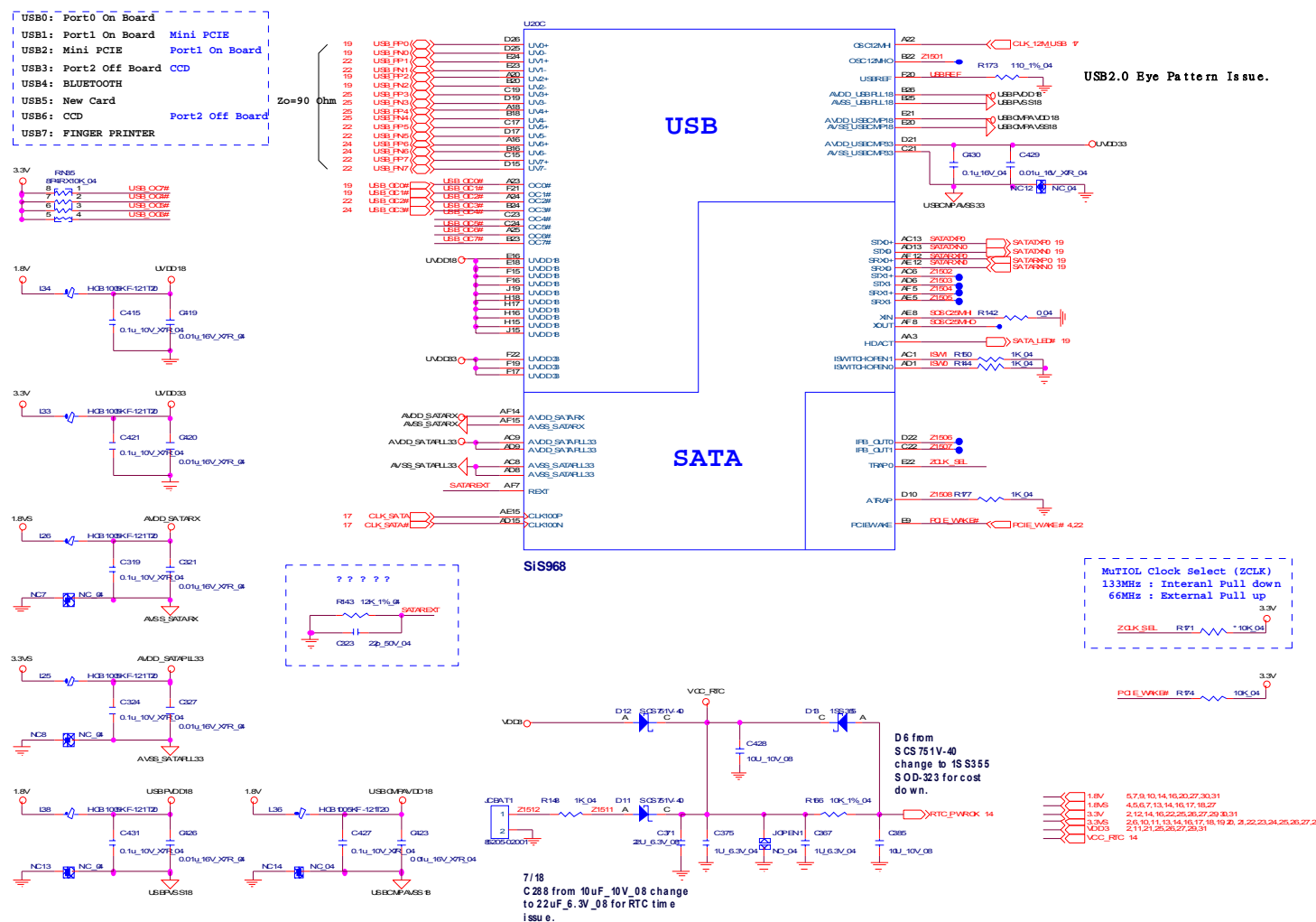
1.8VS	4,5,6,7,14,15,16,17,18,27
3.3VS	2,6,10,11,14,15,16,17,18,19,20,21,22,23,24,25,26,27,29

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968 PCIE LAN GPIO
2/4



B.Schematic Diagrams

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968 USB SATA 3/4



968 PWR GND 4/4 B - 17



B.Schematic Diagrams

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Clock Generator &
Clock Buffer



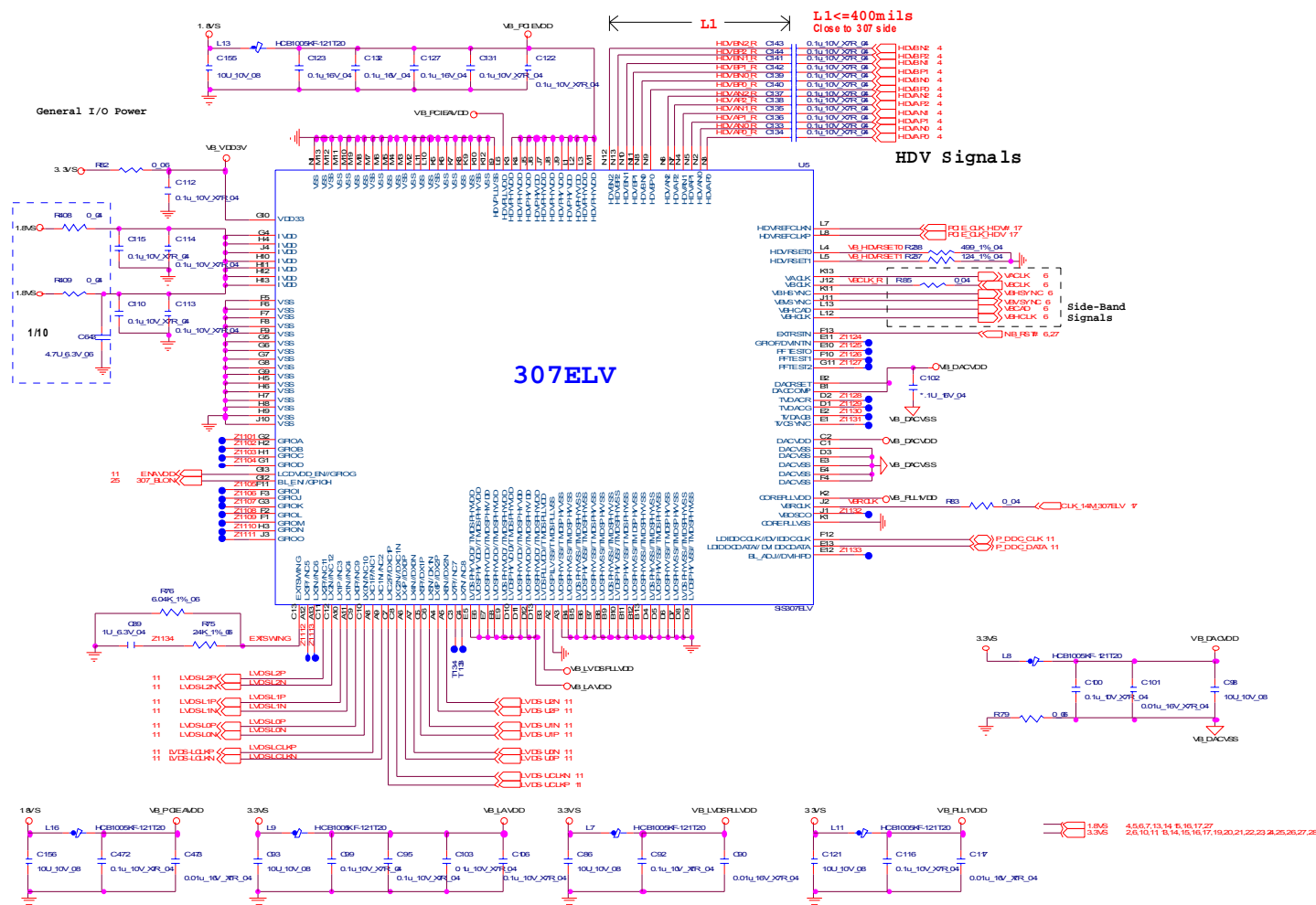
Place CRYSTAL Within 500
mils of ICS9LPR600

Modify C509,C510 from 33PF change to 27PF for OSC issue.



Clock Generator Pin 15		
Status	(LO)Non-STUFF	(HI)PULL1-UP
Mode	Desktop mode	Mobile mode
Pin 1	VTTOWRGD/PD#	CLK_STOP#
Pin 12	PCICIK3	PCI_STOP#
Pin 16	PCICIK5	PECLCKREQ0#
Pin 17	PCICIK6	PECLCKREQ1#
Pin 28	RESET#	CPU_STOP#

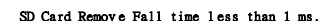
FS4	FS3	BSEL2	BSEL1	BSEL0	Host Clock Frequency
0	1	1	0	1	100 MHz
0	1	0	0	1	133 MHz
0	1	0	1	1	166 MHz
0	1	0	1	0	200 MHz



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ODD, SATA,
USB2.0 *2

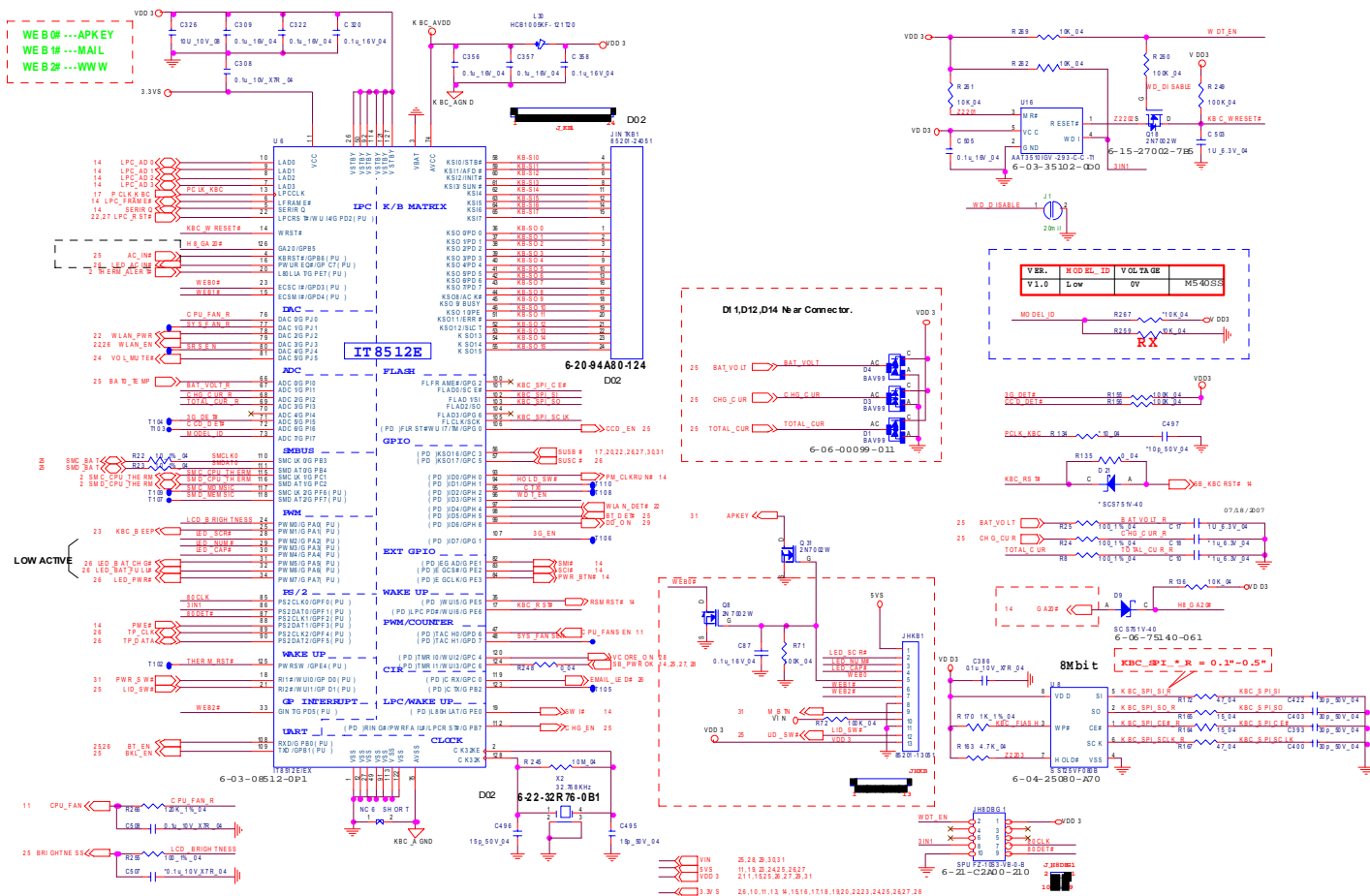


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Card Reader
JMB385



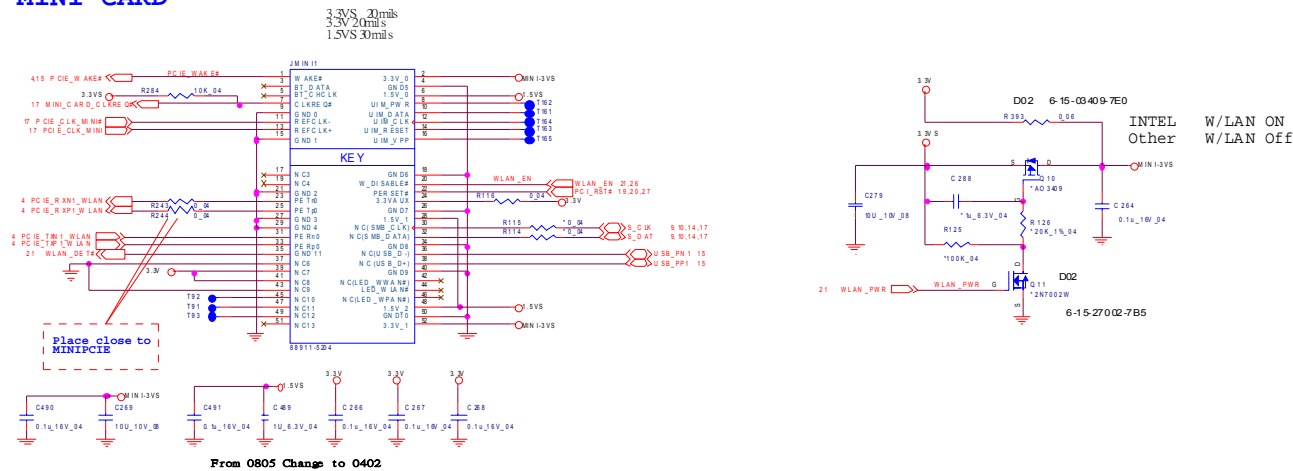
KBC-ITE IT8512E

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KBC-ITE IT8512E

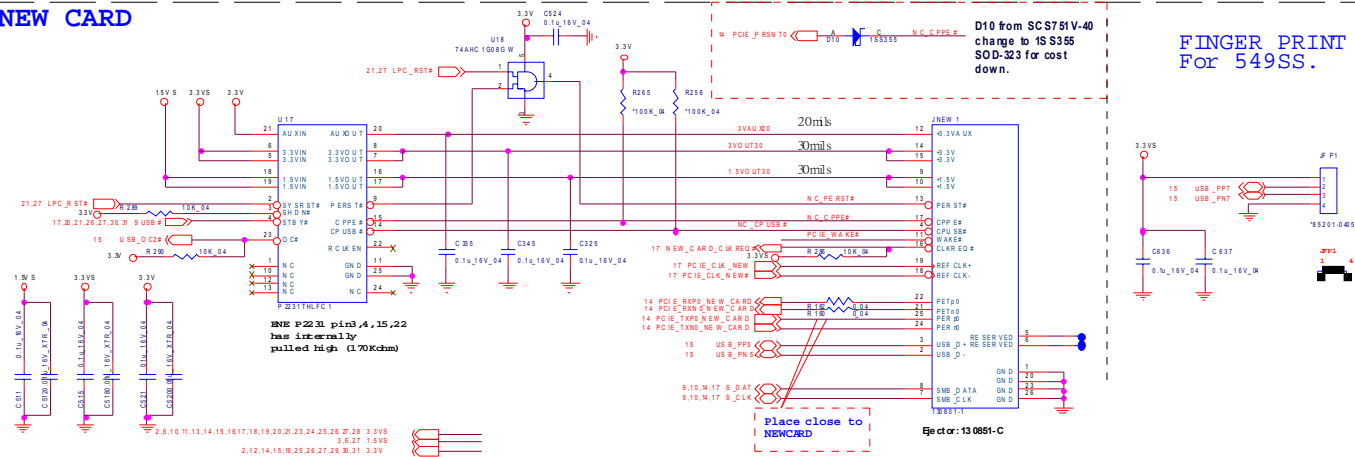


Mini Card, New Card, TPM, FGPT

MINI CARD



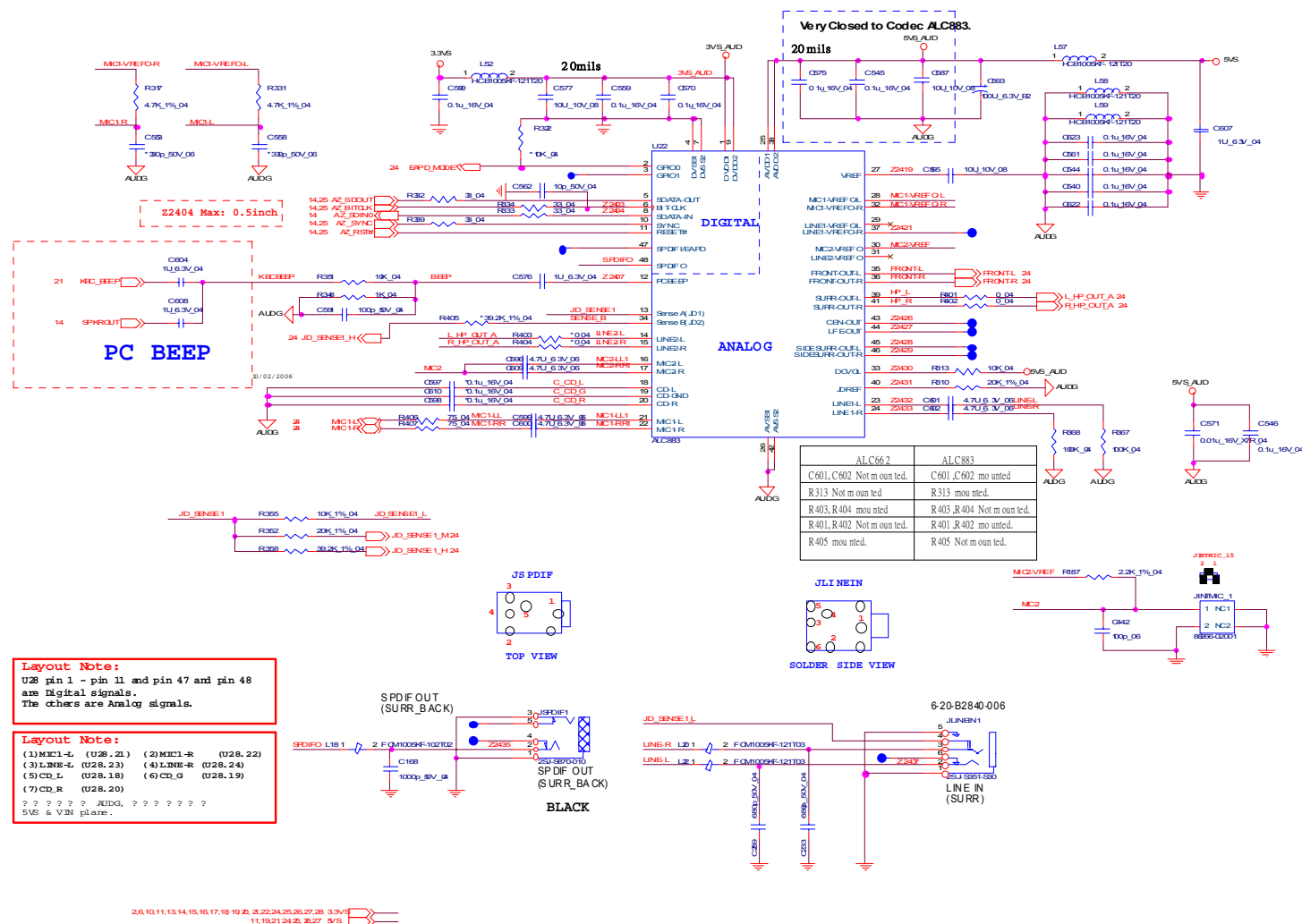
NEW CARD

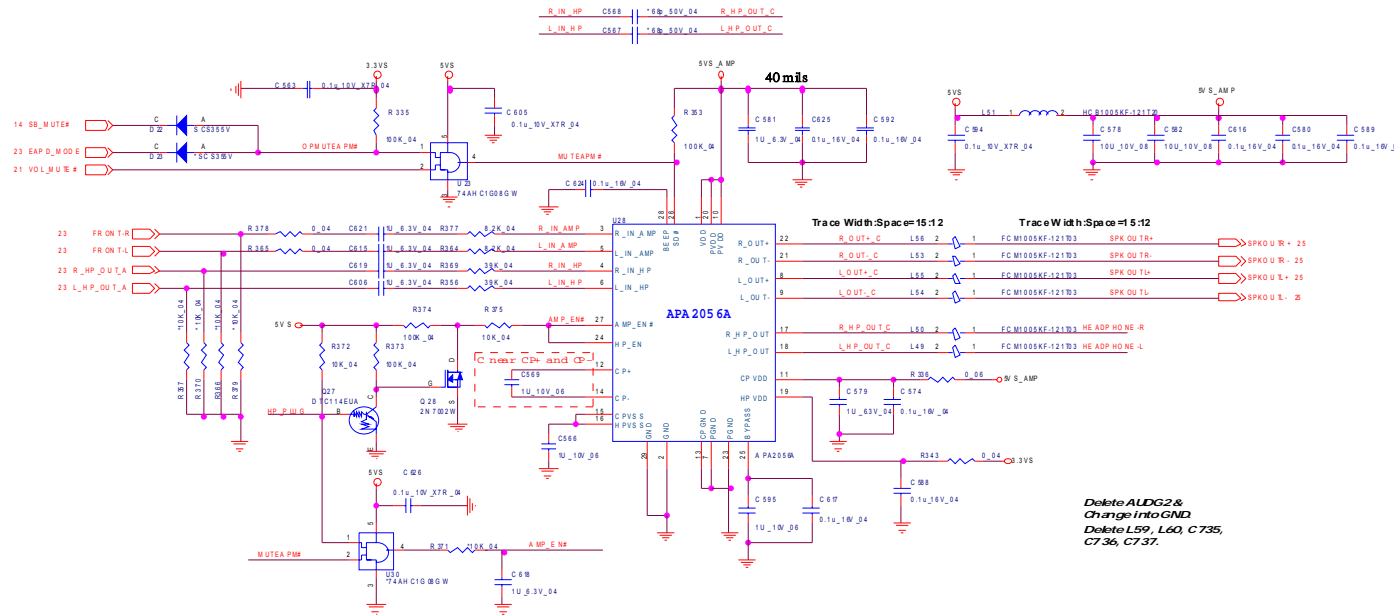


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Mini Card, New Card,
TPM, FGPT

AZALIA Codec ALC883

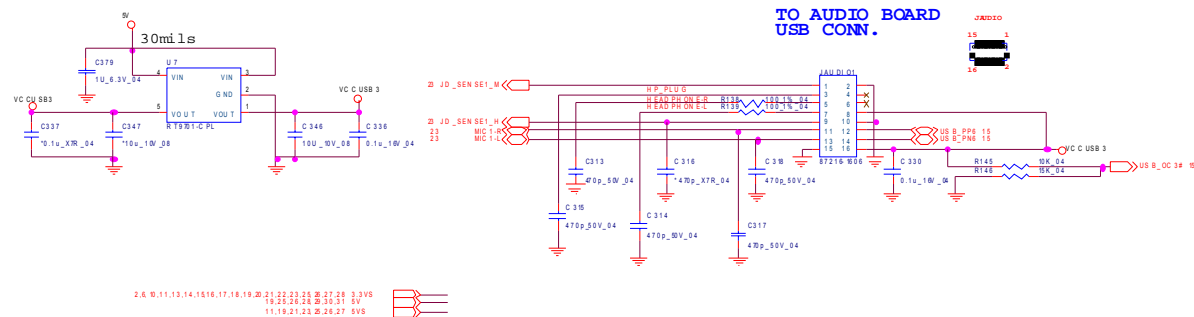
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AZALIA Codec
ALC883





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Audio AMP2056A

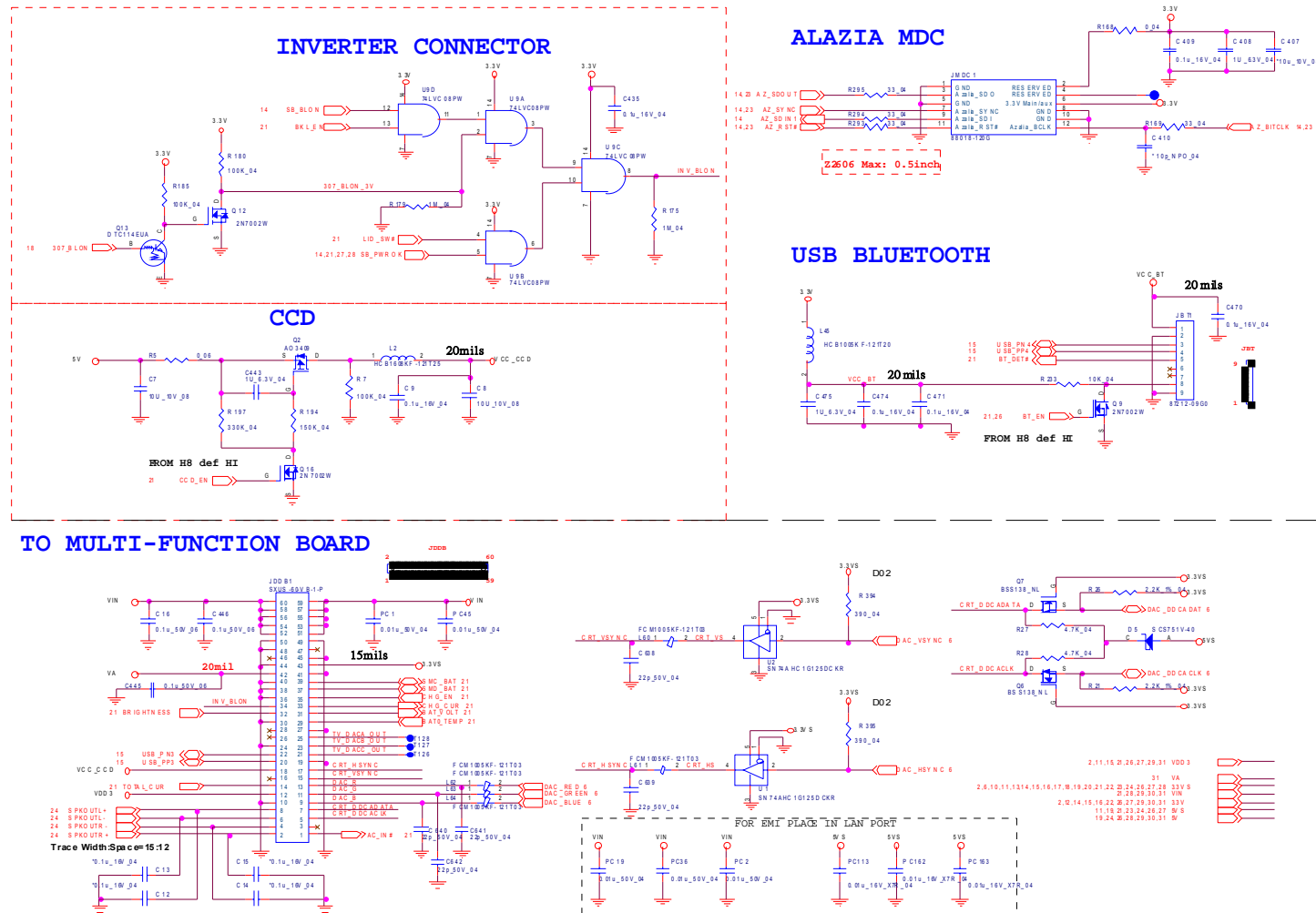
B.Schematic Diagrams



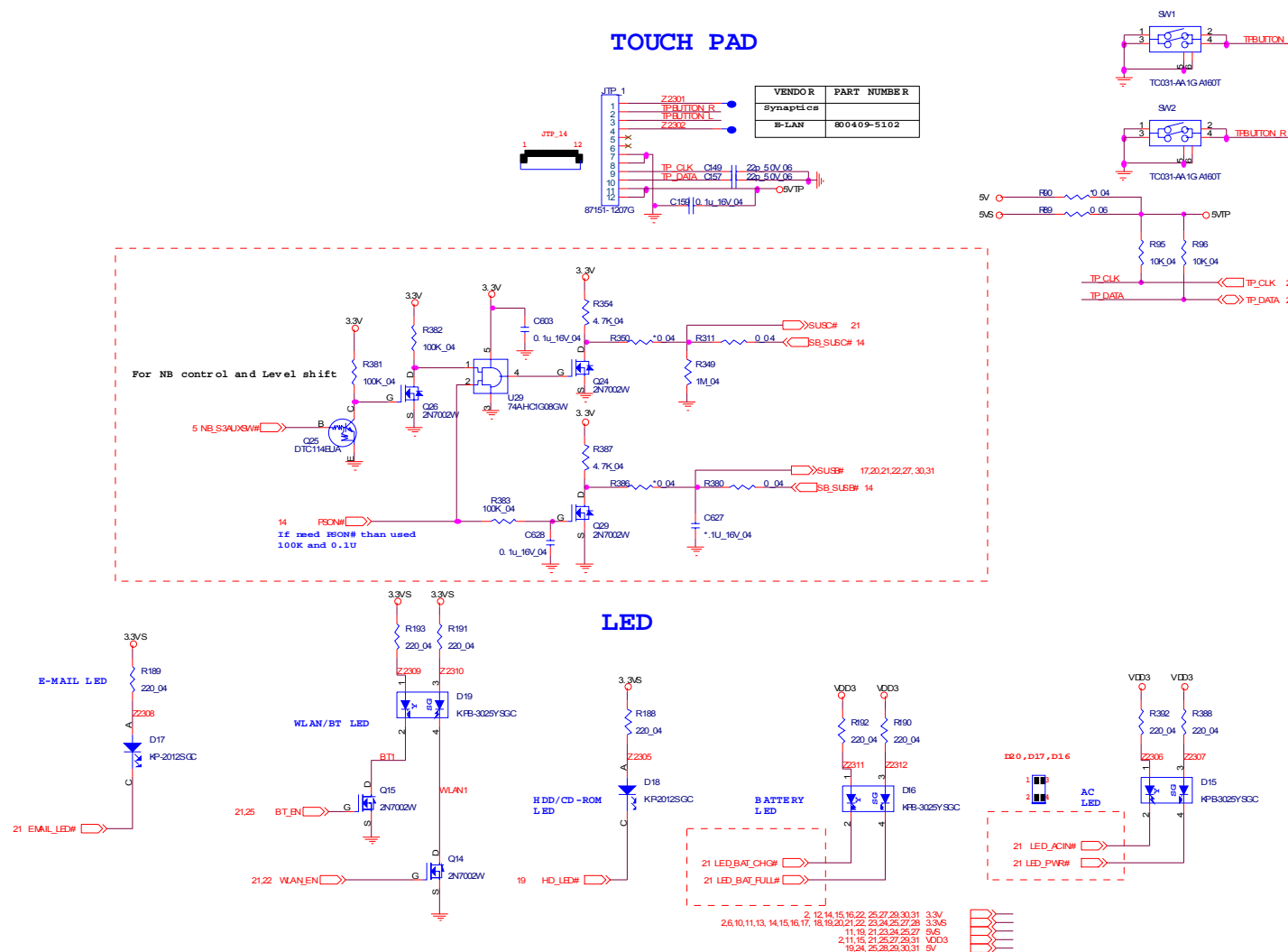
Schematic Diagrams

MDC, BT, PWRGD, DDB CON

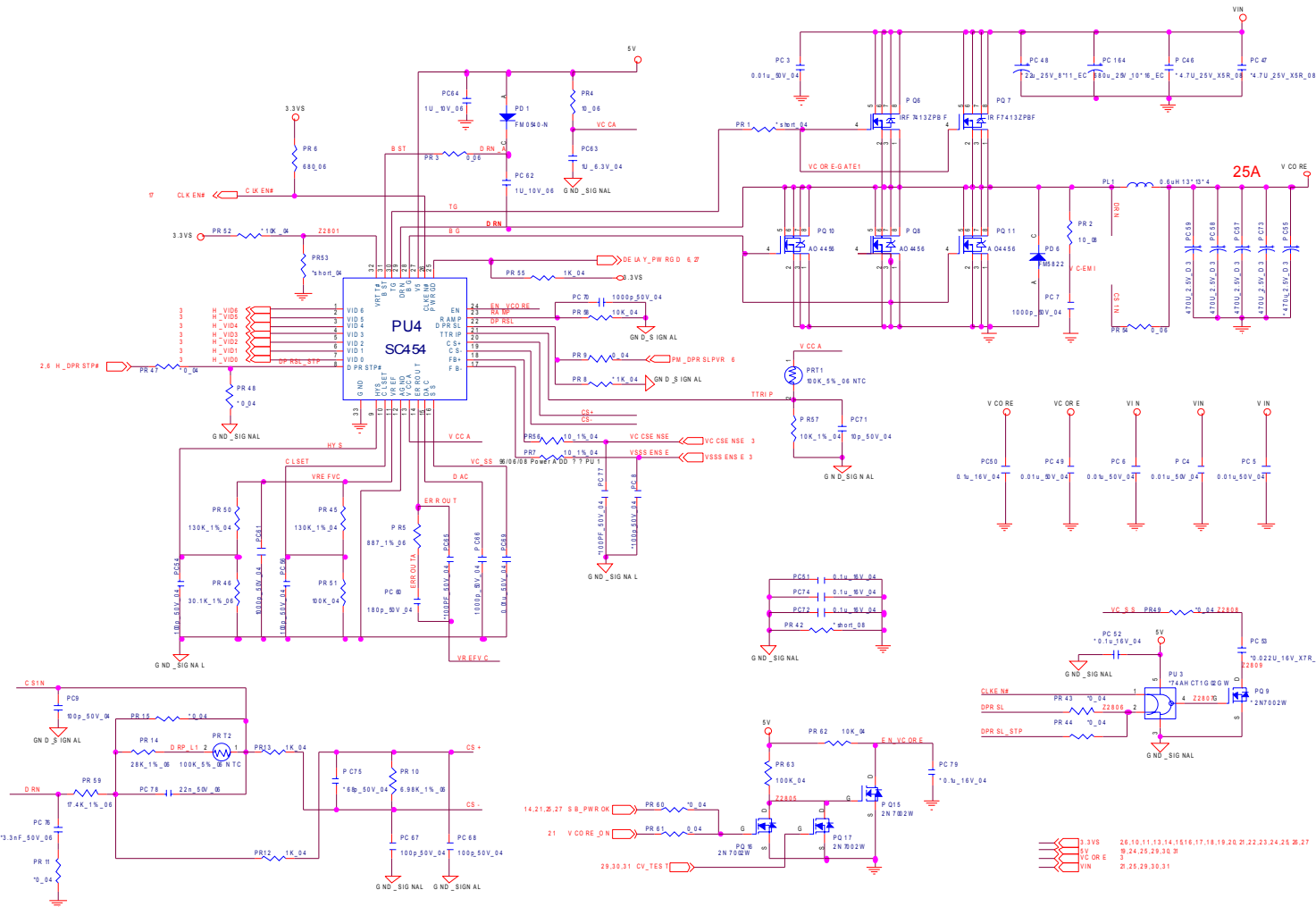
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MDC, BT, PWRGD,
DDB CON



TouchPad, LED B - 27



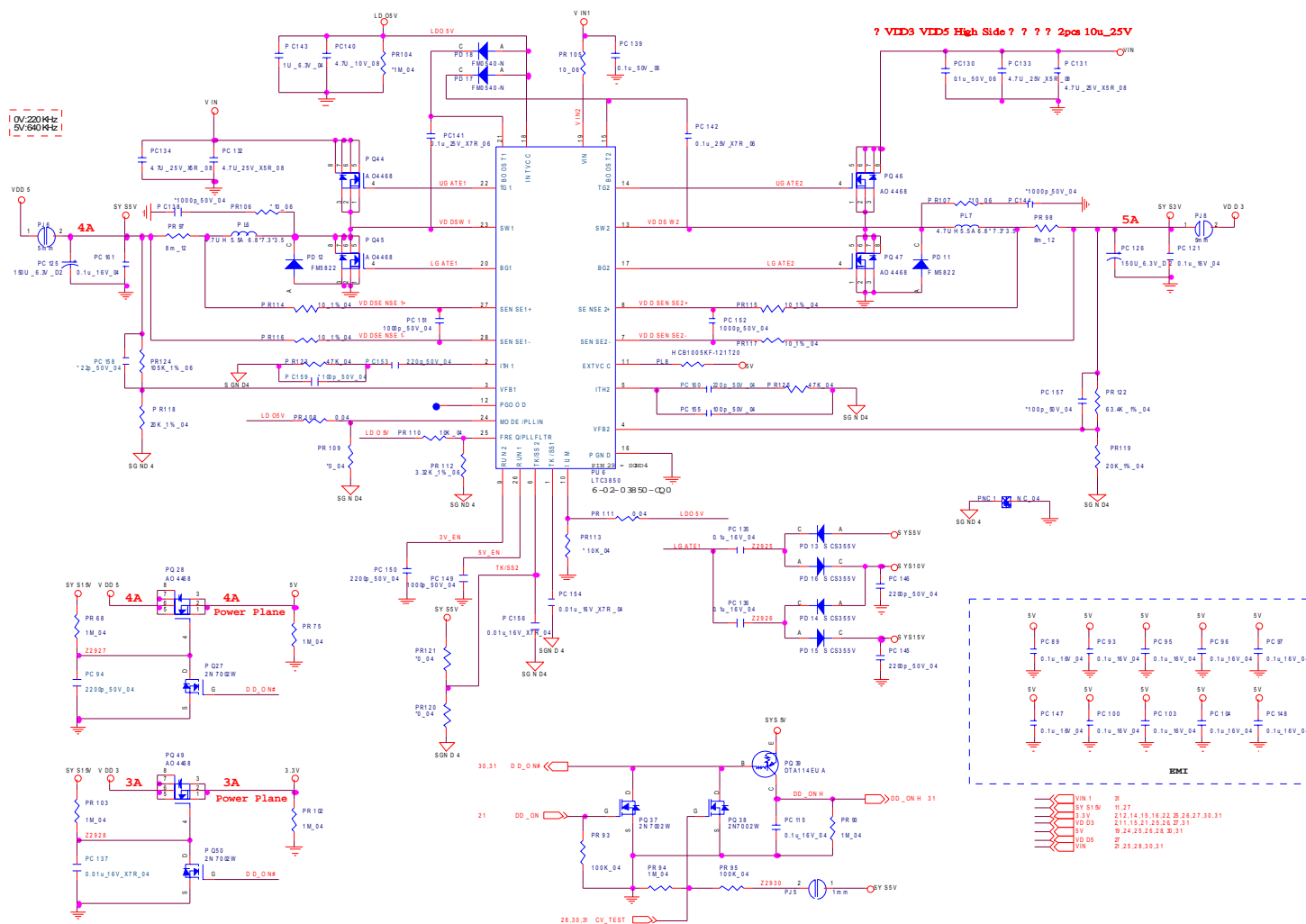
VCORE



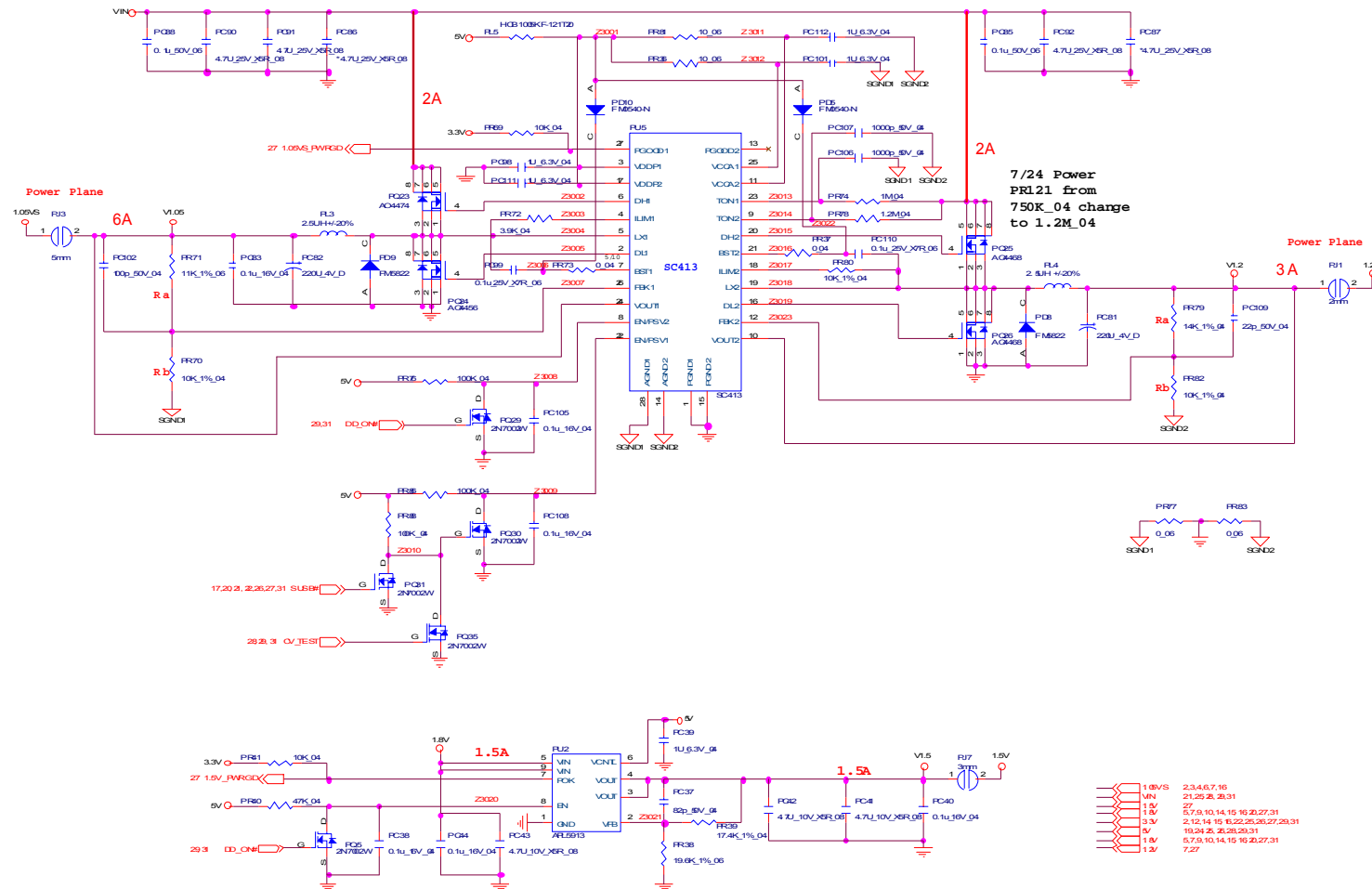
Sheet 28 of 37
VCORE

VDD3, VDD5

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VDD3, VDD5



1.05VS, 1.2V, 1.5V

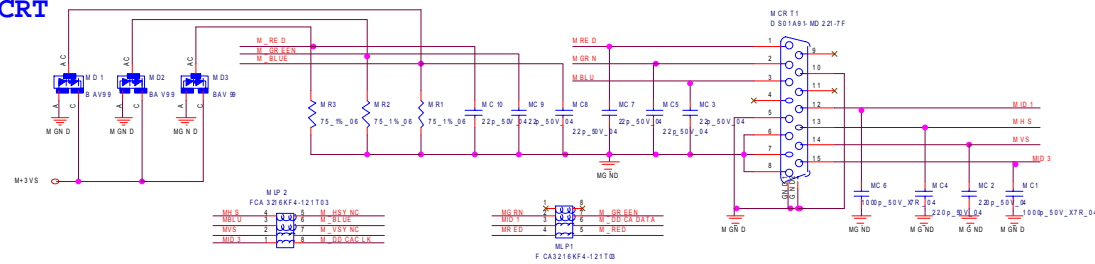


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1.05VS, 1.2V, 1.5V

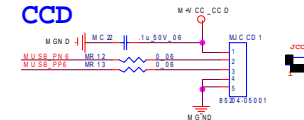
1.8V, 0.9VS

D/D BD (CRT, S-Video, RJ-11)

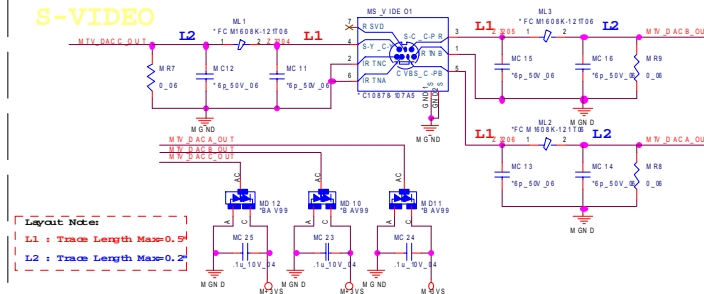
CRT



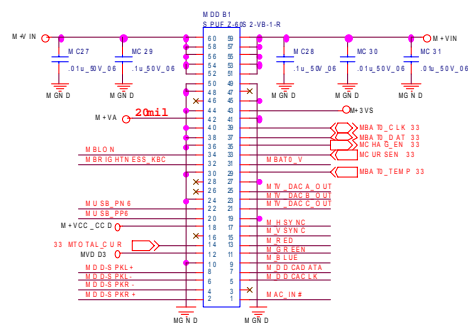
CCD



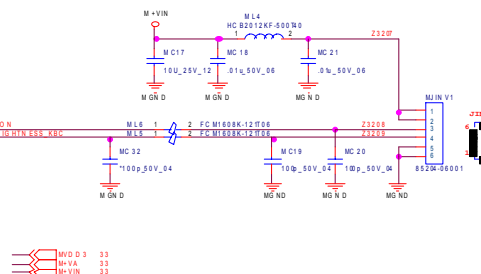
S-VIDEO



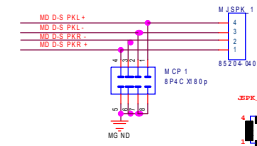
Sheet 32 of 37
D/D BD (CRT, S-Video, RJ-11)



INVERTER CONNECTOR



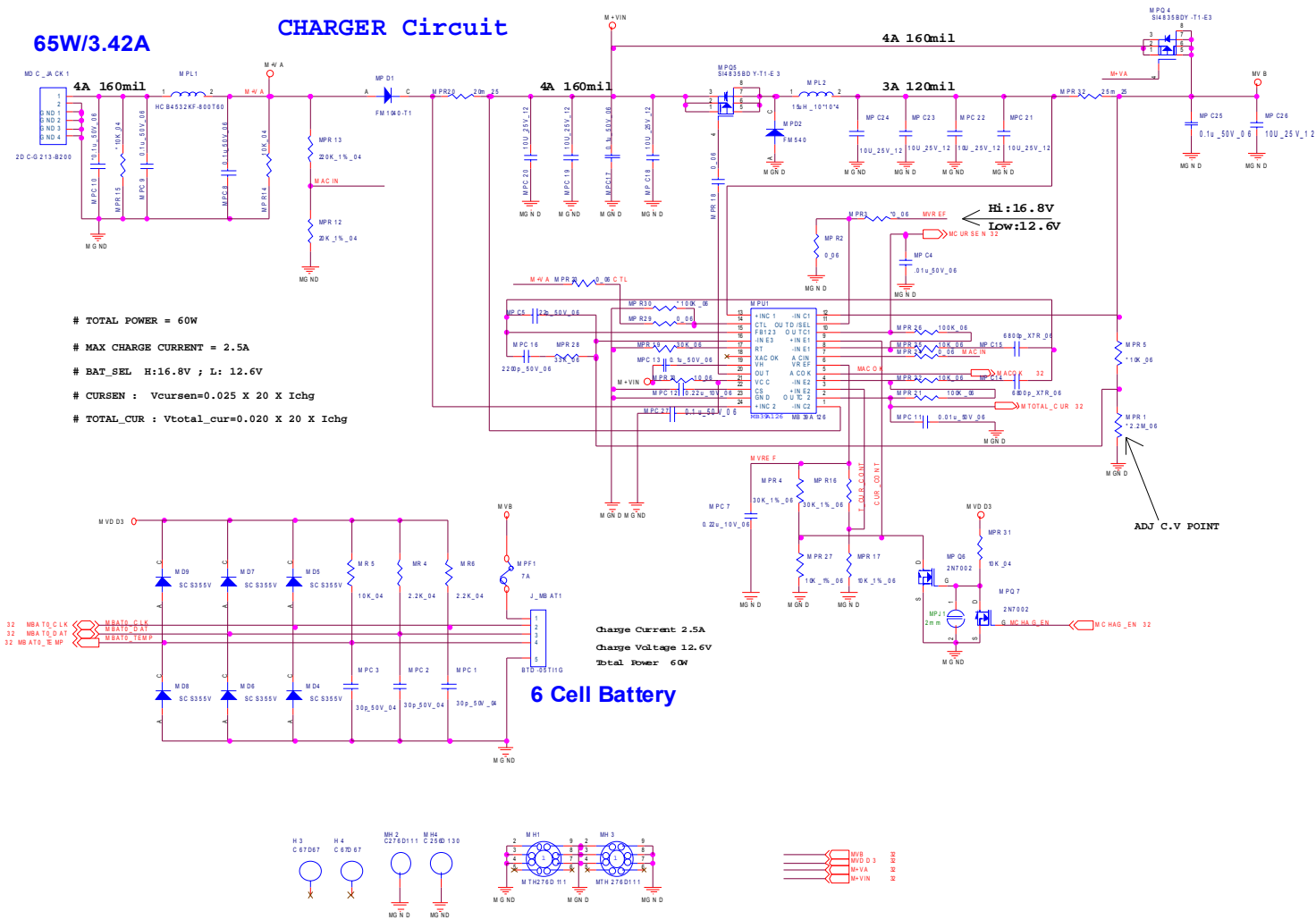
SPEAKER CONNECTOR



Schematic Diagrams

D/D BD (Charger, DC-In)

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D/D BD (Charger,
DC-In)

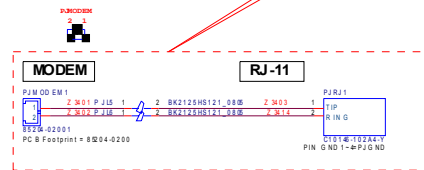


Audio BD (Phone Jack, RJ-11, USB)

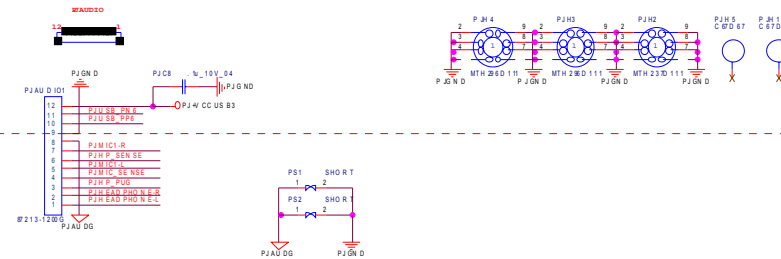
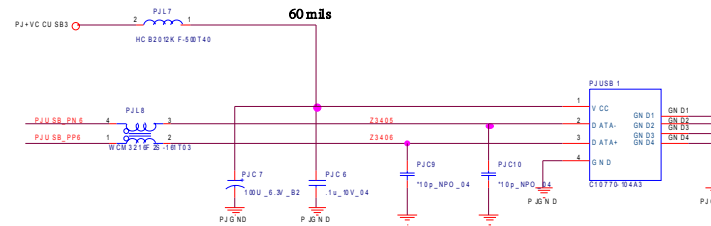
RJ-11 PLANE

? ? ? ? ? ? ? ?

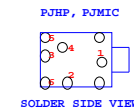
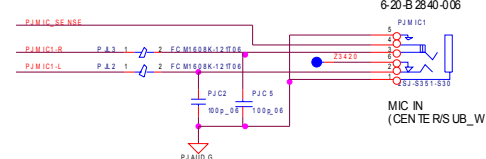
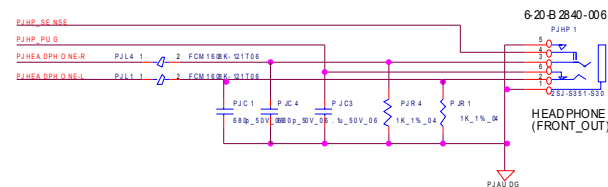
? ? 2.5mm ? ?



DIGITAL PLANE



ANALOG PLANE



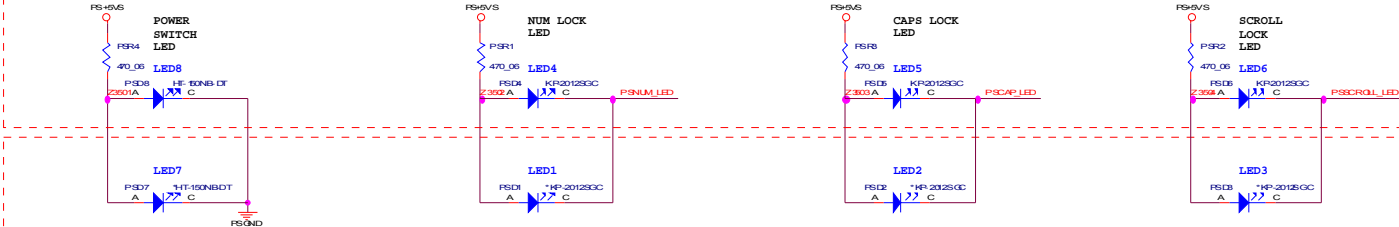
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Audio BD (Phone Jack, RJ-11, USB)

Schematic Diagrams

Hot key BD (Hot key, LED)

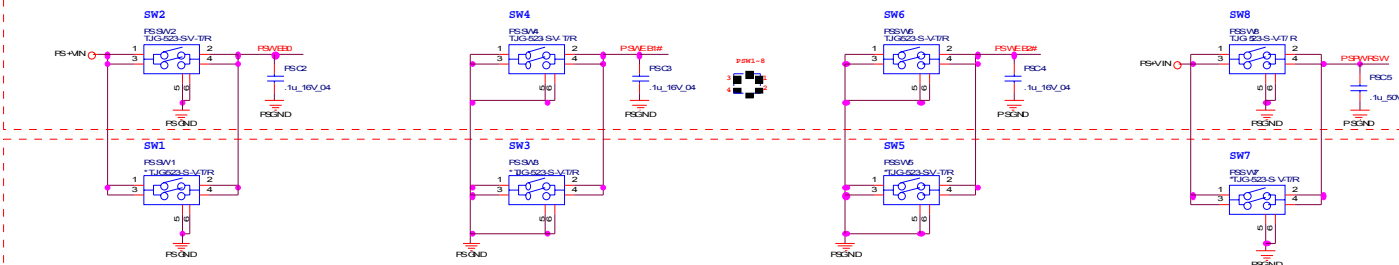
Sheet 35 of 37
Hot key BD
(Hot key, LED)

FOR M540R



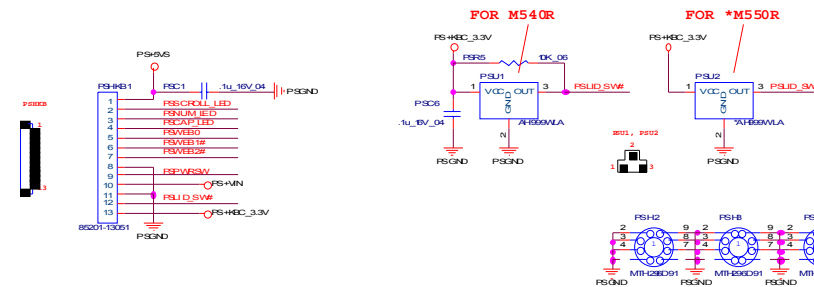
FOR *M550R

FOR M540R



FOR *M550R

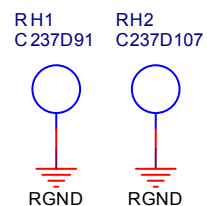
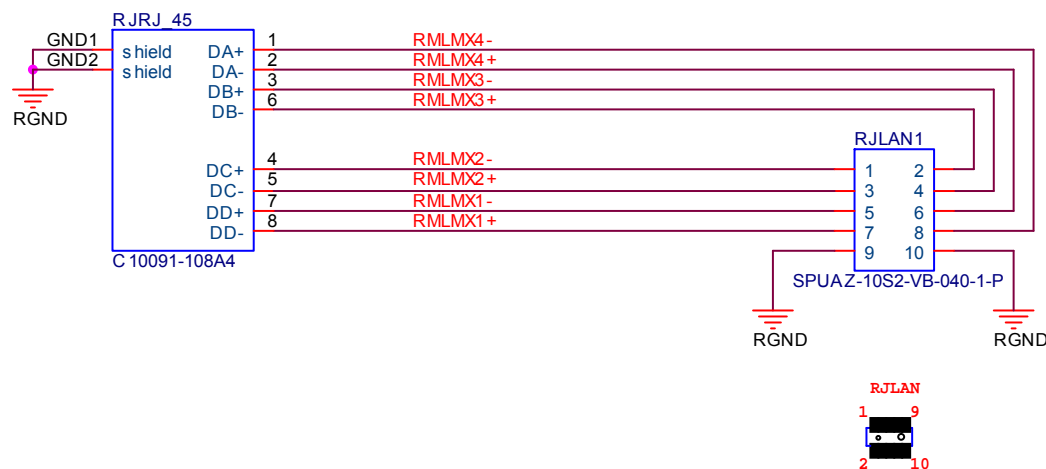
LID SWITCH IC



	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	MR SENSOR
M540R	X	X	X	V	V	V	X	V	PSU1
*M550R	V	V	V	X	X	X	V	X	PSU2

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
M540R	X	V	X	V	X	V	X	V
*M550R	V	X	V	X	V	X	V	X

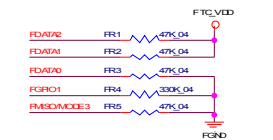
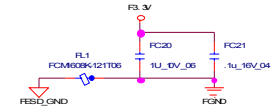
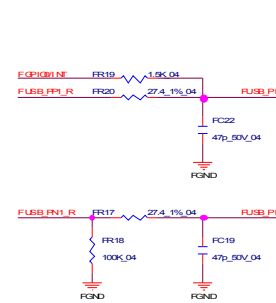
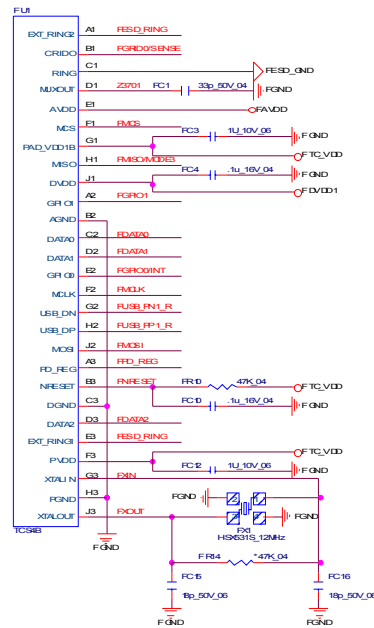
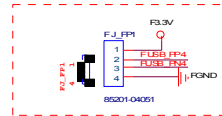
RJ-45 Board



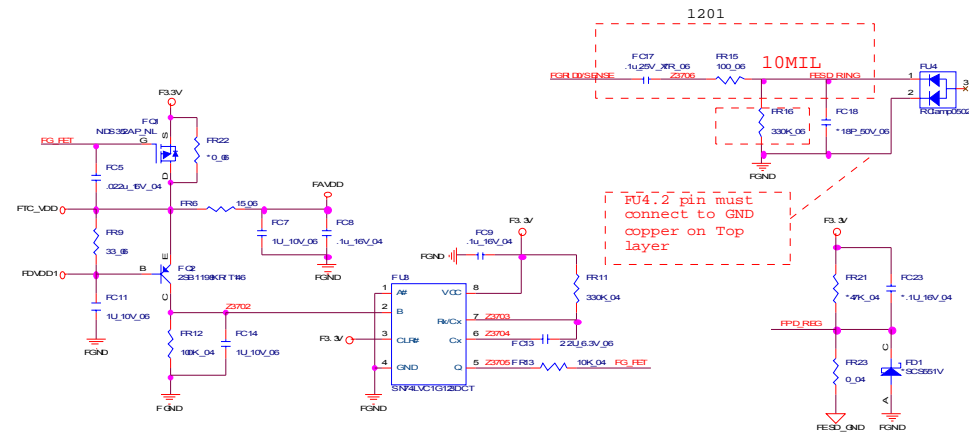
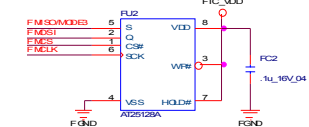
Sheet 36 of 37
RJ-45 Board

Schematic Diagrams

FingerPrint Board



6-04-25128-490



M548SS/M549SS Only.