

Appendix B:Schematic Diagrams

This appendix has circuit diagrams of the *M540SE/M550SE* notebook's PCB's. The following table indicates where to find the appropriate schematic diagram.

Diagram - Page	Diagram - Page	Diagram - Page
<i>System Block Diagram - Page B - 2</i>	<i>VT8237 2/3 - Page B - 15</i>	<i>+1.8V, +VTT_MEM - Page B - 28</i>
<i>PROCESSOR 1/2 - Page B - 3</i>	<i>VT8237 3/3 - Page B - 16</i>	<i>VCORE - Page B - 29</i>
<i>PROCESSOR 2/2 - Page B - 4</i>	<i>MINI PCI, MINI Card, USB2.0*2, FP - Page B - 17</i>	<i>+1.05VS, 1.5V, 1.5VS - Page B - 30</i>
<i>VN896 1/4 - Page B - 5</i>	<i>SATA HDD, CD-ROM, H8 BEEP, CCD - Page B - 18</i>	<i>+VDD3, +VDD5 - Page B - 31</i>
<i>VN896 2/4 - Page B - 6</i>	<i>LAN PHY - Page B - 19</i>	<i>D/D BD (CRT, INVERTER, CCD, RJ-11) - Page B - 32</i>
<i>VN896 3/4 - Page B - 7</i>	<i>LPC ROM, TOUCH PAD, LED - Page B - 20</i>	<i>D/D BD (CHARGER, DC IN) - Page B - 33</i>
<i>VN896 4/4 - Page B - 8</i>	<i>H8-2111 - Page B - 21</i>	<i>AUDIO BD (PHONE JACK, USB, RJ-11) - Page B - 34</i>
<i>DDR2-1 - Page B - 9</i>	<i>MDC, USB BT, PWRGD, DDB CON - Page B - 22</i>	<i>HOT KEY BD (HOT KEY, LED, LID) - Page B - 35</i>
<i>DDR2-2 - Page B - 10</i>	<i>Audio VT1708A/ALC883 - Page B - 23</i>	<i>LED BOARD - Page B - 36</i>
<i>CLOCK GENERATOR - Page B - 11</i>	<i>AUDIO AMP, USB2.0*2 - Page B - 24</i>	<i>CLICK BOARD - Page B - 37</i>
<i>PANEL, FAN - Page B - 12</i>	<i>PCI ENE MR510 - Page B - 25</i>	<i>RJ-45 BOARD - Page B - 38</i>
<i>VIA LVDS VT-1634AL - Page B - 13</i>	<i>NEW CARD, 3-IN-1 SOCKET - Page B - 26</i>	<i>USB DONGLE BOARD - Page B - 39</i>
<i>VT8237 1/3 - Page B - 14</i>	<i>5V, 3V, 5VS, 3VS, 2.5V, 2.5VS - Page B - 27</i>	<i>FINGERPRINT BOARD - Page B - 40</i>

Table B - 1
**Schematic
Diagrams**

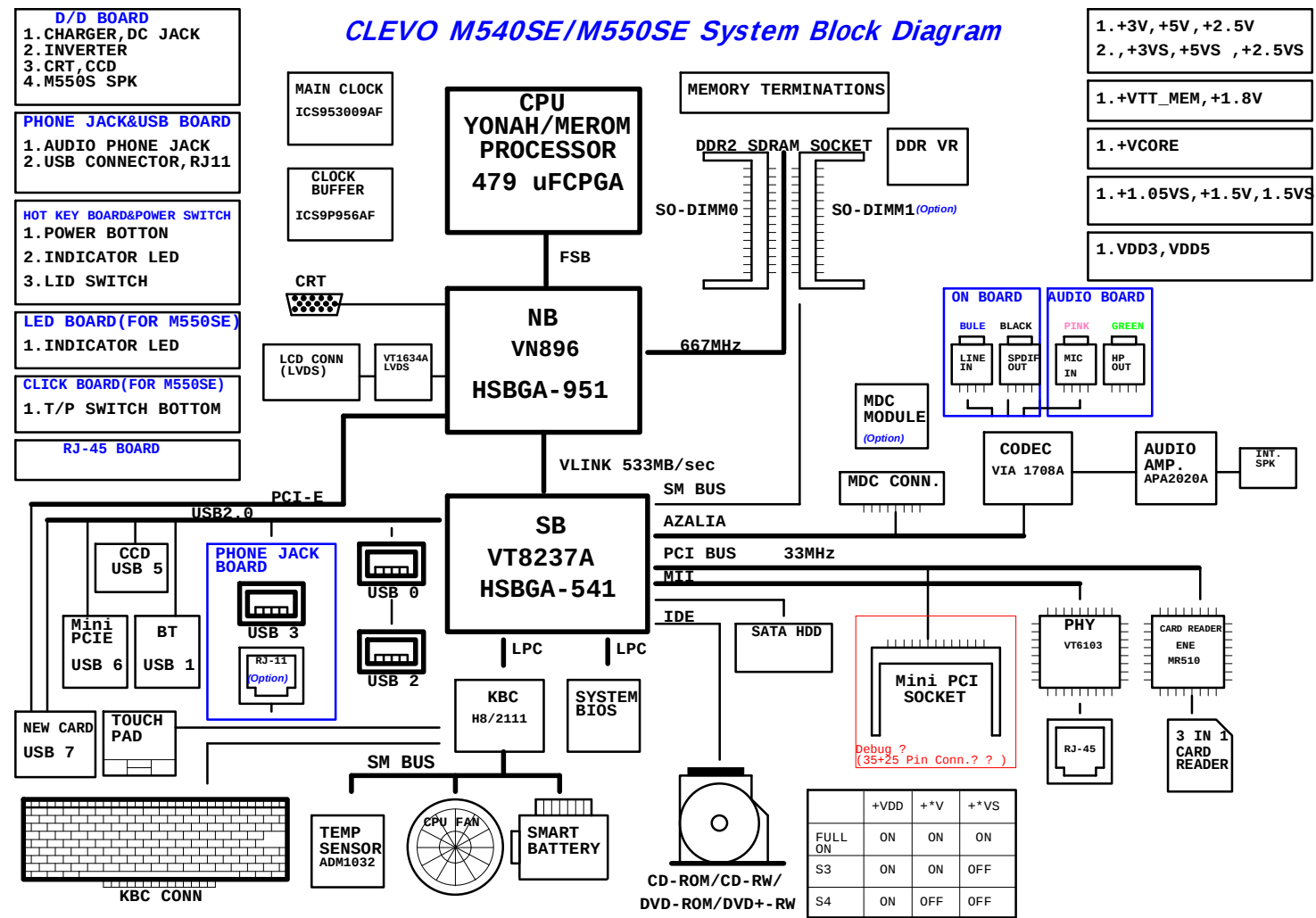


Version Note

The schematic diagrams in this chapter are based upon version 6-71-M5E50-D02A. If your main-board (or other boards) are a later version, please check with the Service Center for updated diagrams (if required).

System Block Diagram

Sheet 1 of 39
System Block
Diagram



Layout Note:
 COMP0, COMP2: 0.5" Max, Zo=27.4 Ohms
 COMP1, COMP3: 0.5" Max, Zo=55 Ohms
 Best estimate is 18 mils wide trace for outer layers and 14 mils wide trace if on internal layers.

Layout Note:
 0.5" max, Zo= 65 Ohms

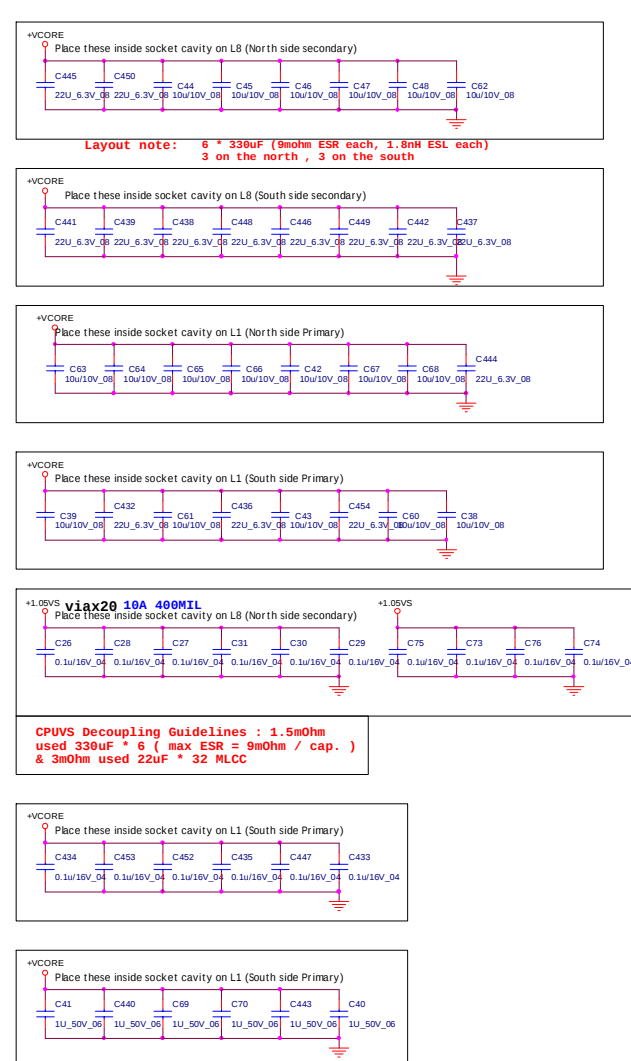
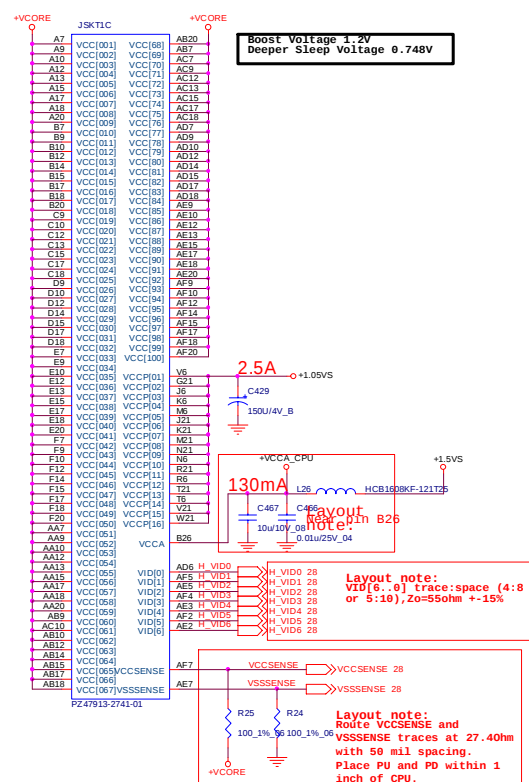
Layout Note:
 Route H_THERMDA and H_THERMDC on same layer. 18 mil trace on 10 mil spacing.

Layout Note:
 ADT1032

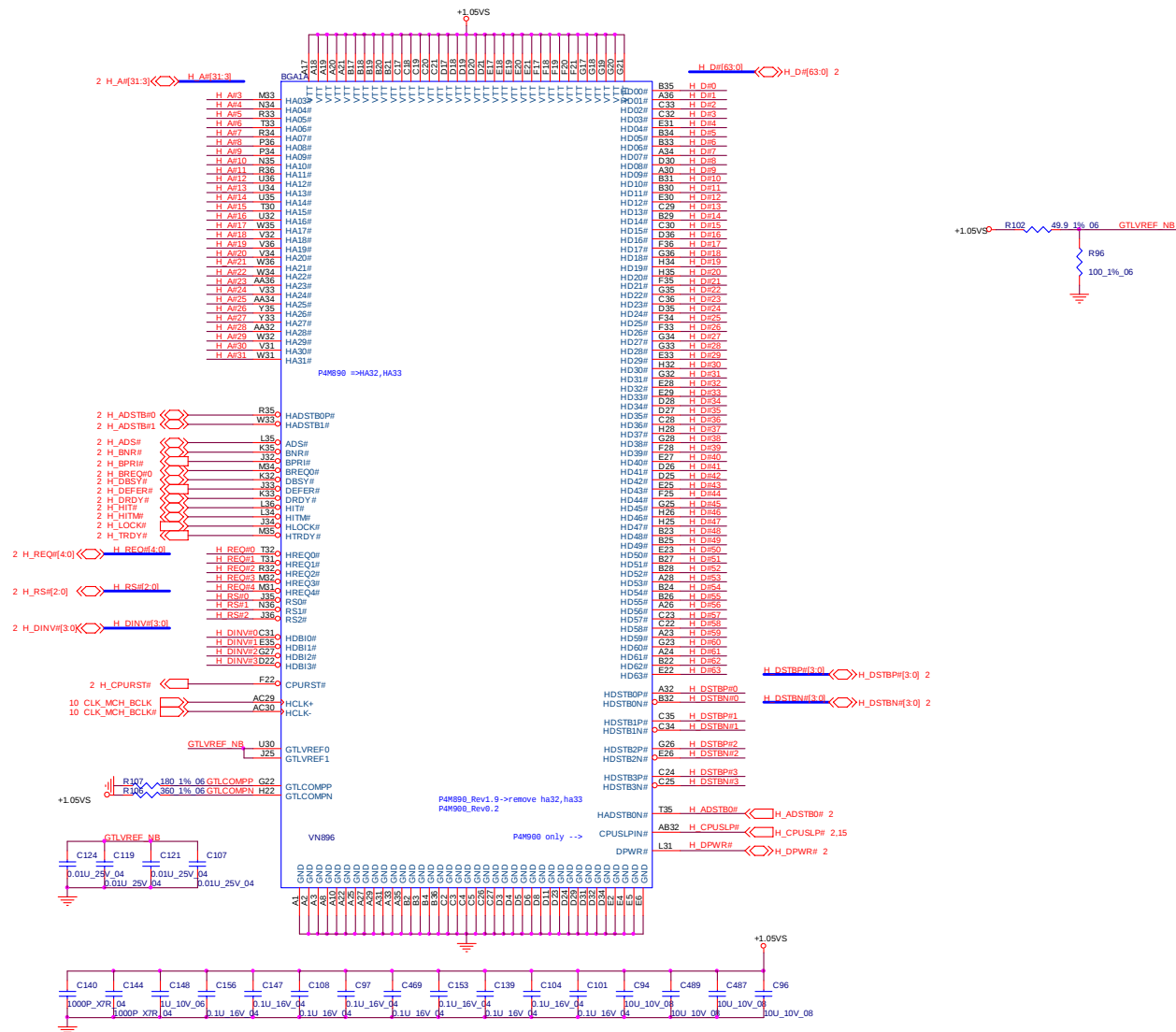
PROCESSOR 1/2 B - 3

B.Schematic Diagrams

Sheet 3 of 39
PROCESSOR 2/2



J5K71D			
A4			
A8	V5:0002	V5:0002	P6
A9	V5:0002	V5:0002	P21
A10	V5:0002	V5:0002	P21
A11	V5:0002	V5:0004	P21
A12	V5:0002	V5:0004	P21
A13	V5:0002	V5:0004	P21
A14	V5:0002	V5:0004	P21
A15	V5:0002	V5:0004	P21
A16	V5:0002	V5:0004	P21
A17	V5:0002	V5:0004	P21
A18	V5:0002	V5:0004	P21
A19	V5:0002	V5:0004	P21
A20	V5:0002	V5:0004	P21
A21	V5:0002	V5:0004	P21
A22	V5:0002	V5:0004	P21
A23	V5:0002	V5:0004	P21
A24	V5:0002	V5:0004	P21
A25	V5:0002	V5:0004	P21
A26	V5:0002	V5:0004	P21
A27	V5:0002	V5:0004	P21
A28	V5:0002	V5:0004	P21
A29	V5:0002	V5:0004	P21
A30	V5:0002	V5:0004	P21
A31	V5:0002	V5:0004	P21
A32	V5:0002	V5:0004	P21
A33	V5:0002	V5:0004	P21
A34	V5:0002	V5:0004	P21
A35	V5:0002	V5:0004	P21
A36	V5:0002	V5:0004	P21
A37	V5:0002	V5:0004	P21
A38	V5:0002	V5:0004	P21
A39	V5:0002	V5:0004	P21
A40	V5:0002	V5:0004	P21
A41	V5:0002	V5:0004	P21
A42	V5:0002	V5:0004	P21
A43	V5:0002	V5:0004	P21
A44	V5:0002	V5:0004	P21
A45	V5:0002	V5:0004	P21
A46	V5:0002	V5:0004	P21
A47	V5:0002	V5:0004	P21
A48	V5:0002	V5:0004	P21
A49	V5:0002	V5:0004	P21
A50	V5:0002	V5:0004	P21
A51	V5:0002	V5:0004	P21
A52	V5:0002	V5:0004	P21
A53	V5:0002	V5:0004	P21
A54	V5:0002	V5:0004	P21
A55	V5:0002	V5:0004	P21
A56	V5:0002	V5:0004	P21
A57	V5:0002	V5:0004	P21
A58	V5:0002	V5:0004	P21
A59	V5:0002	V5:0004	P21
A60	V5:0002	V5:0004	P21
A61	V5:0002	V5:0004	P21
A62	V5:0002	V5:0004	P21
A63	V5:0002	V5:0004	P21
A64	V5:0002	V5:0004	P21
A65	V5:0002	V5:0004	P21
A66	V5:0002	V5:0004	P21
A67	V5:0002	V5:0004	P21
A68	V5:0002	V5:0004	P21
A69	V5:0002	V5:0004	P21
A70	V5:0002	V5:0004	P21
A71	V5:0002	V5:0004	P21
A72	V5:0002	V5:0004	P21
A73	V5:0002	V5:0004	P21
A74	V5:0002	V5:0004	P21
A75	V5:0002	V5:0004	P21
A76	V5:0002	V5:0004	P21
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A80	V5:0002	V5:0004	P21
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A88	V5:0002	V5:0004	P21
A89	V5:0002	V5:0004	P21
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A97	V5:0002	V5:0004	P21
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A99	V5:0002	V5:0004	P21
A100	V5:0002	V5:0004	P21



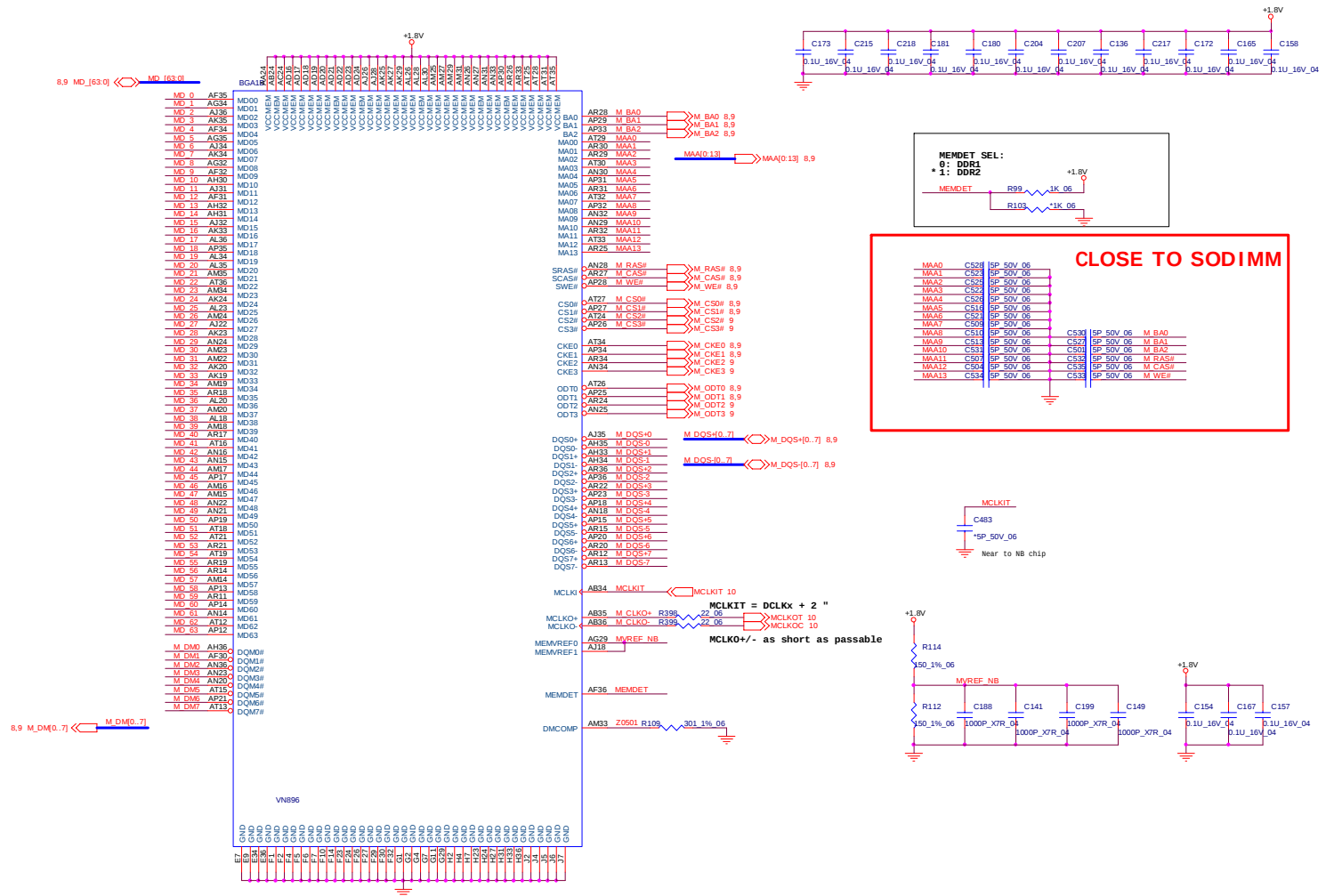
Sheet 4 of 39
VN896 1/4

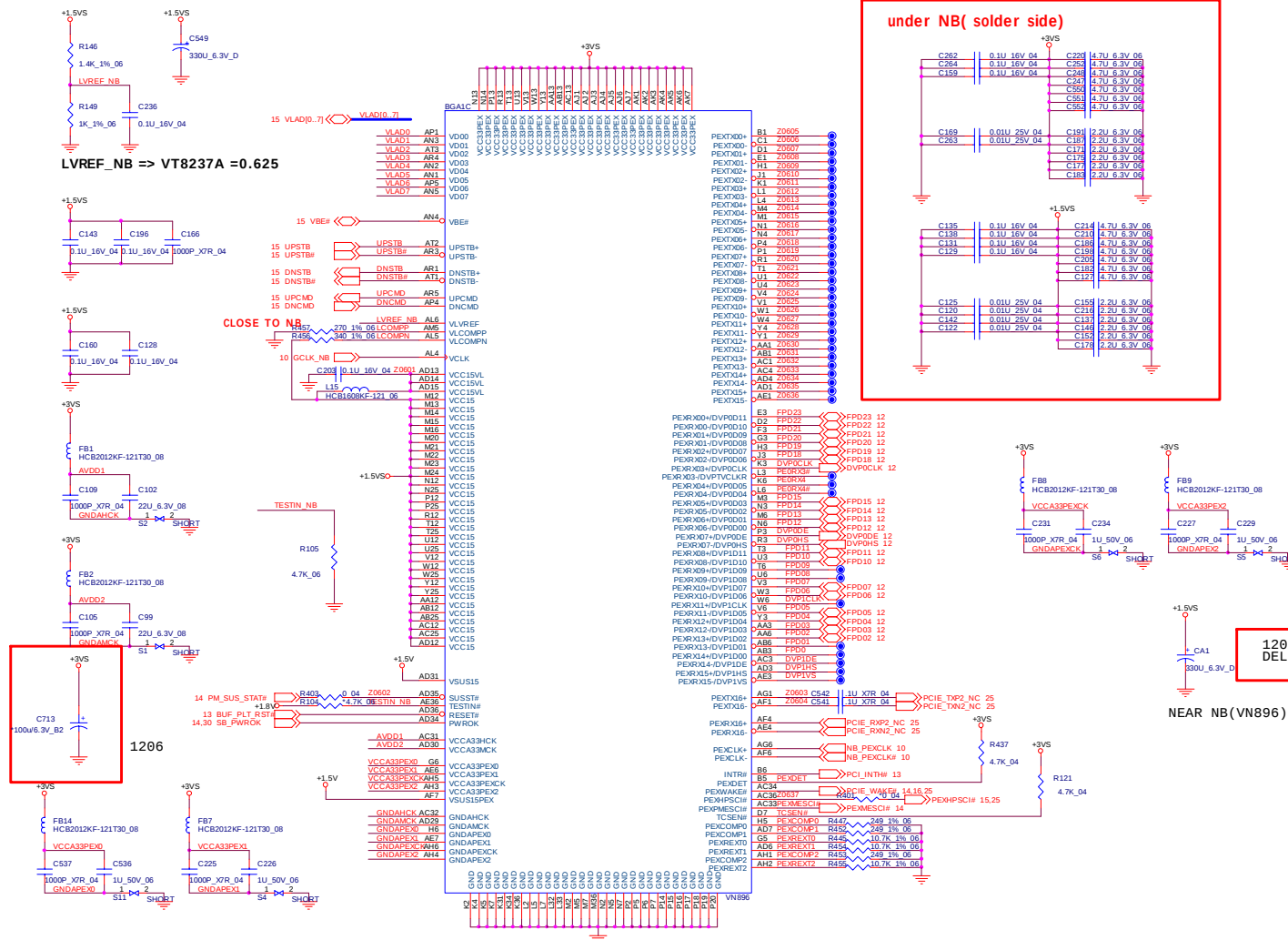
B.Schematic Diagrams

Schematic Diagrams

VN896 2/4

Sheet 5 of 39
VN896 2/4



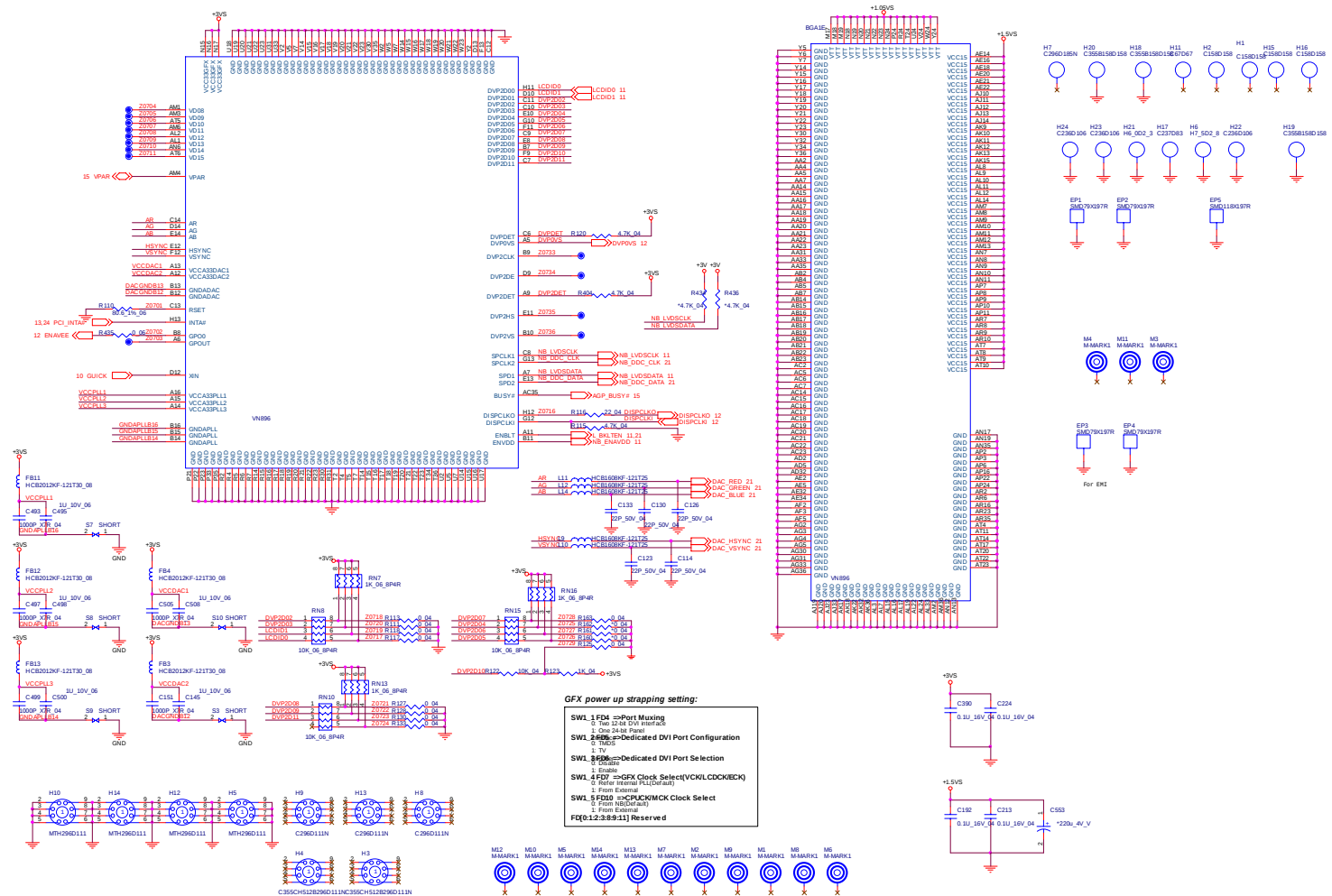


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VN896 3/4

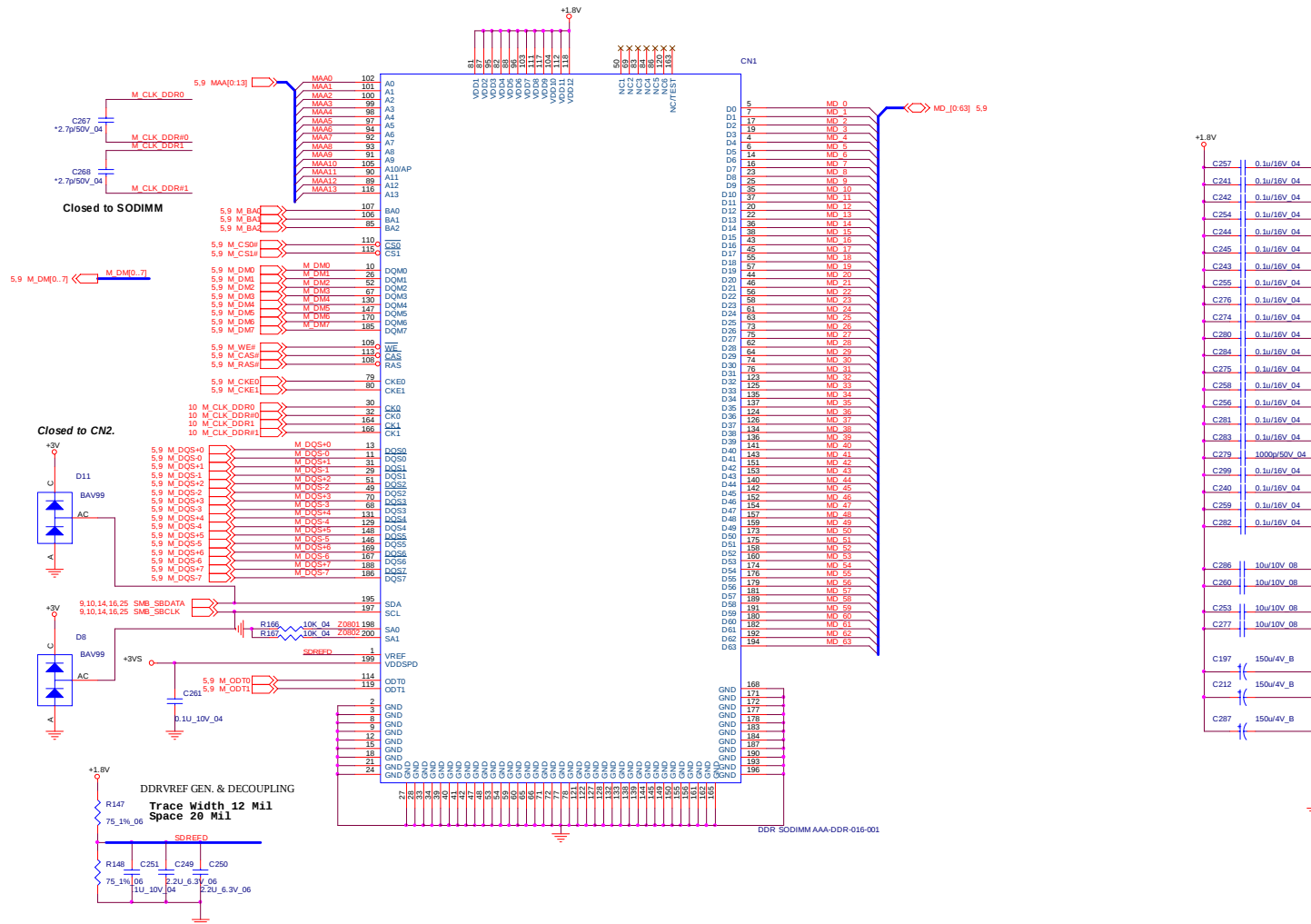
B.Schematic Diagrams

VN896 4/4

Sheet 7 of 39
VN896 4/4



DDR2-1



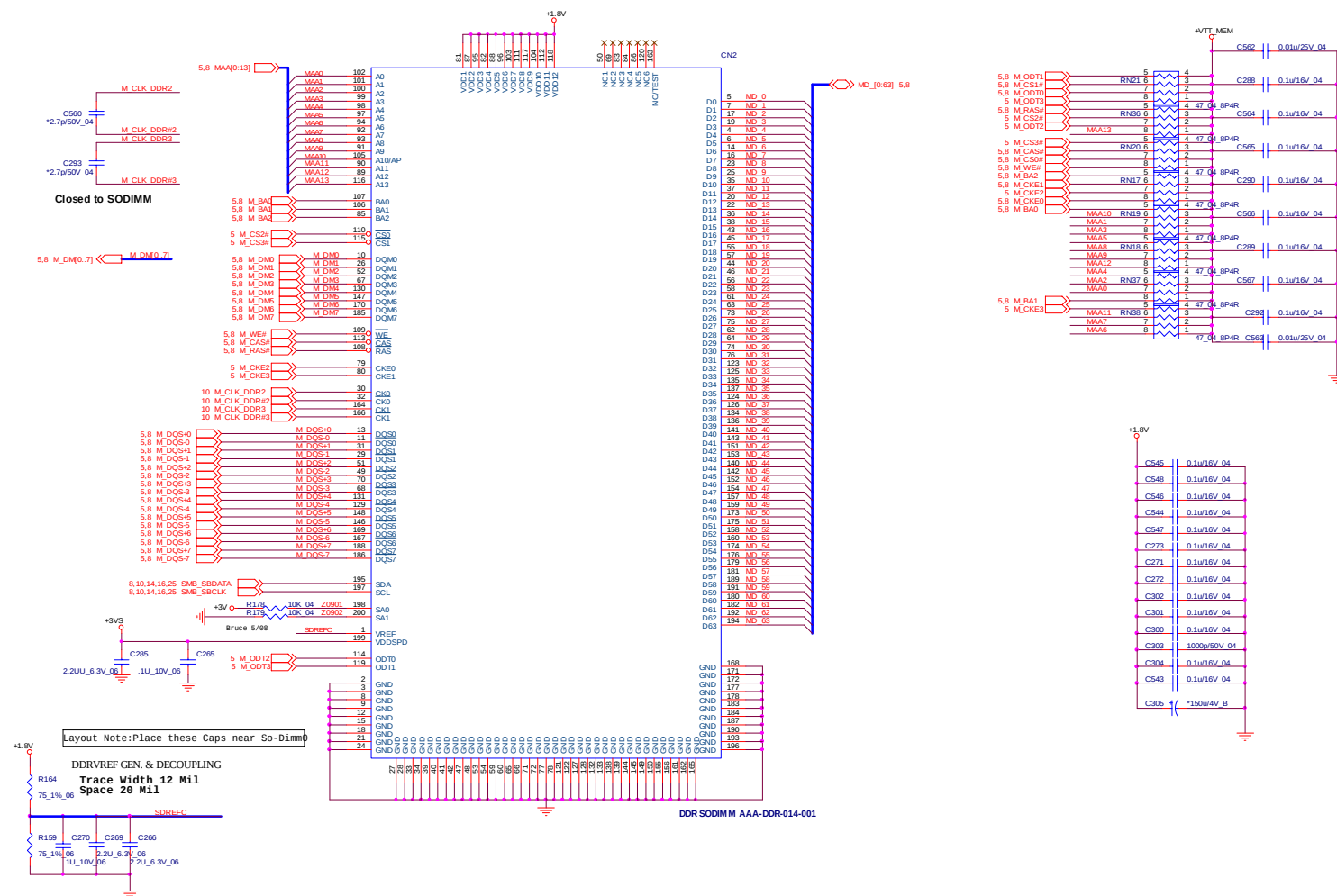
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DDR2-1

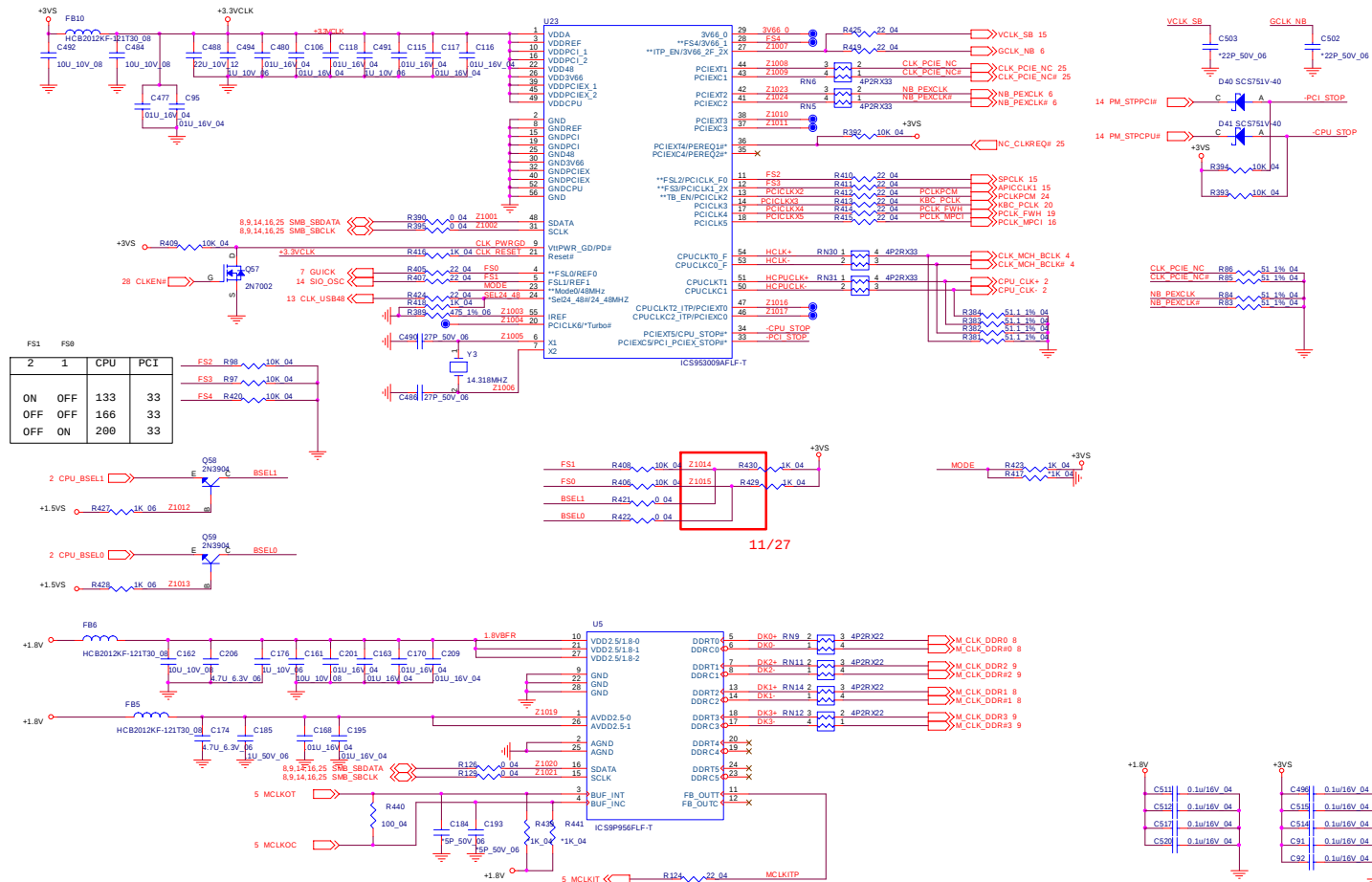
B.Schematic Diagrams

DDR2-2

B.Schematic Diagrams

Sheet 9 of 39
DDR2-2

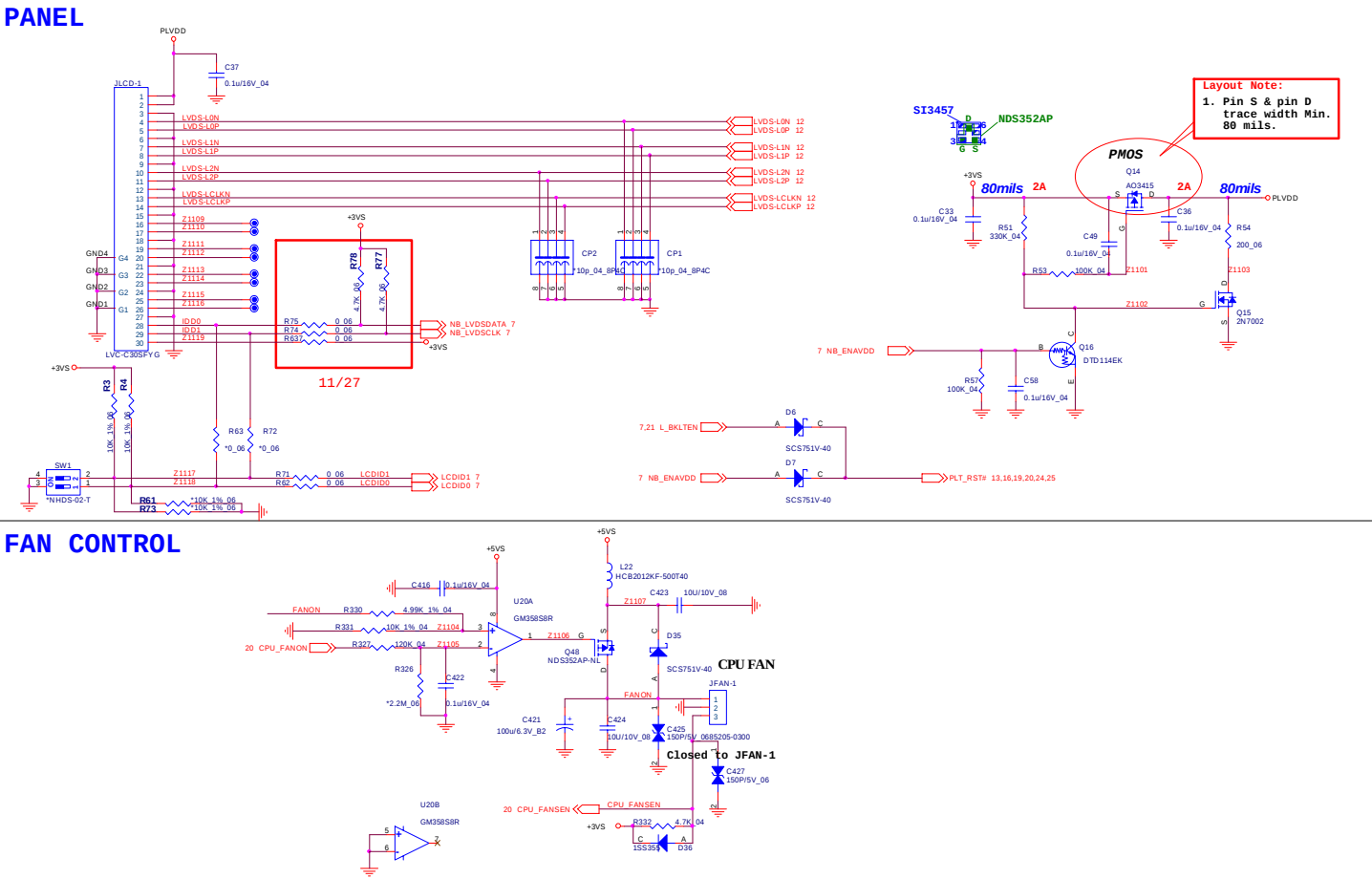




Schematic Diagrams

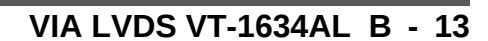
PANEL, FAN

Sheet 11 of 39
PANEL, FAN



B.Schematic Diagrams

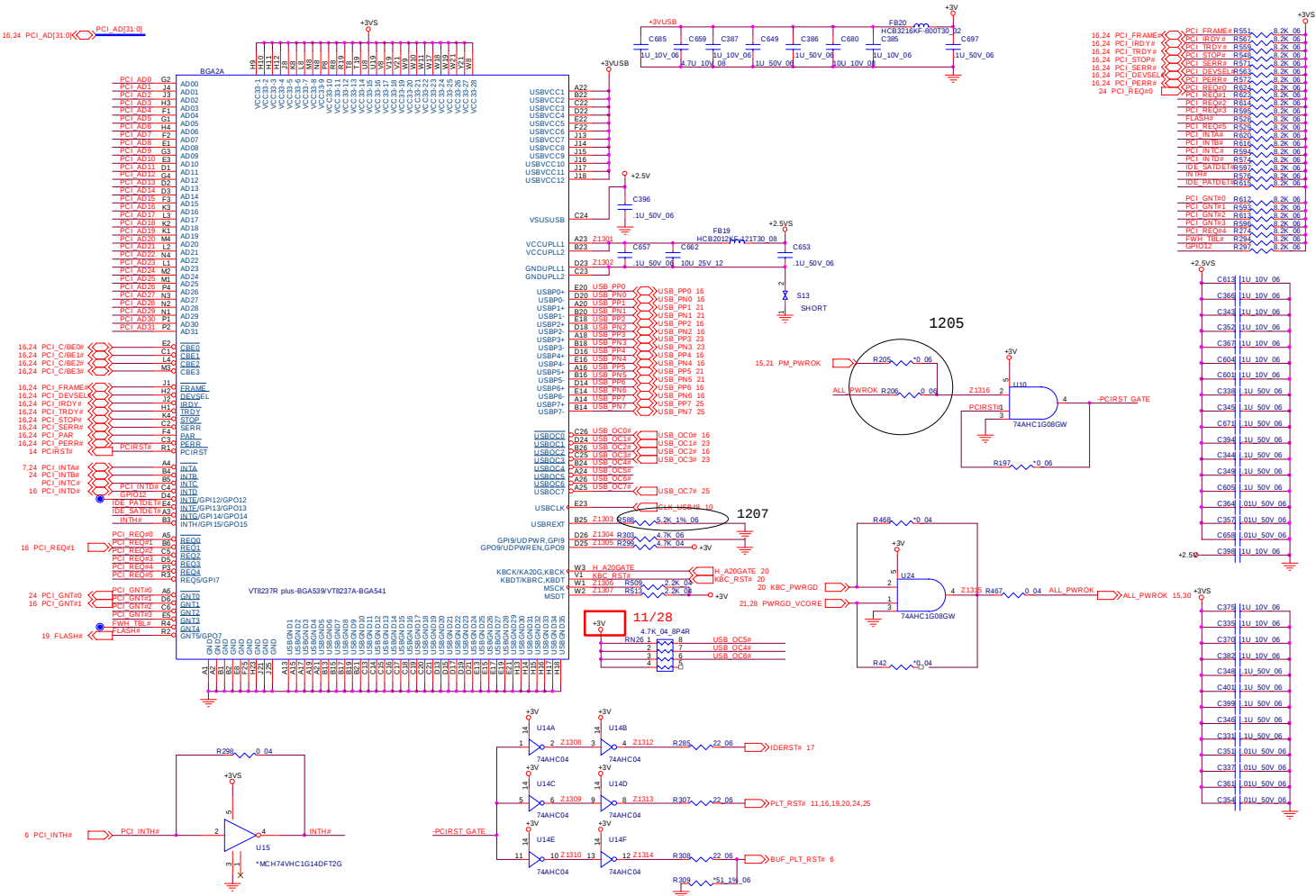
Sheet 12 of 39
VIA LVDS
VT-1634AL



Schematic Diagrams

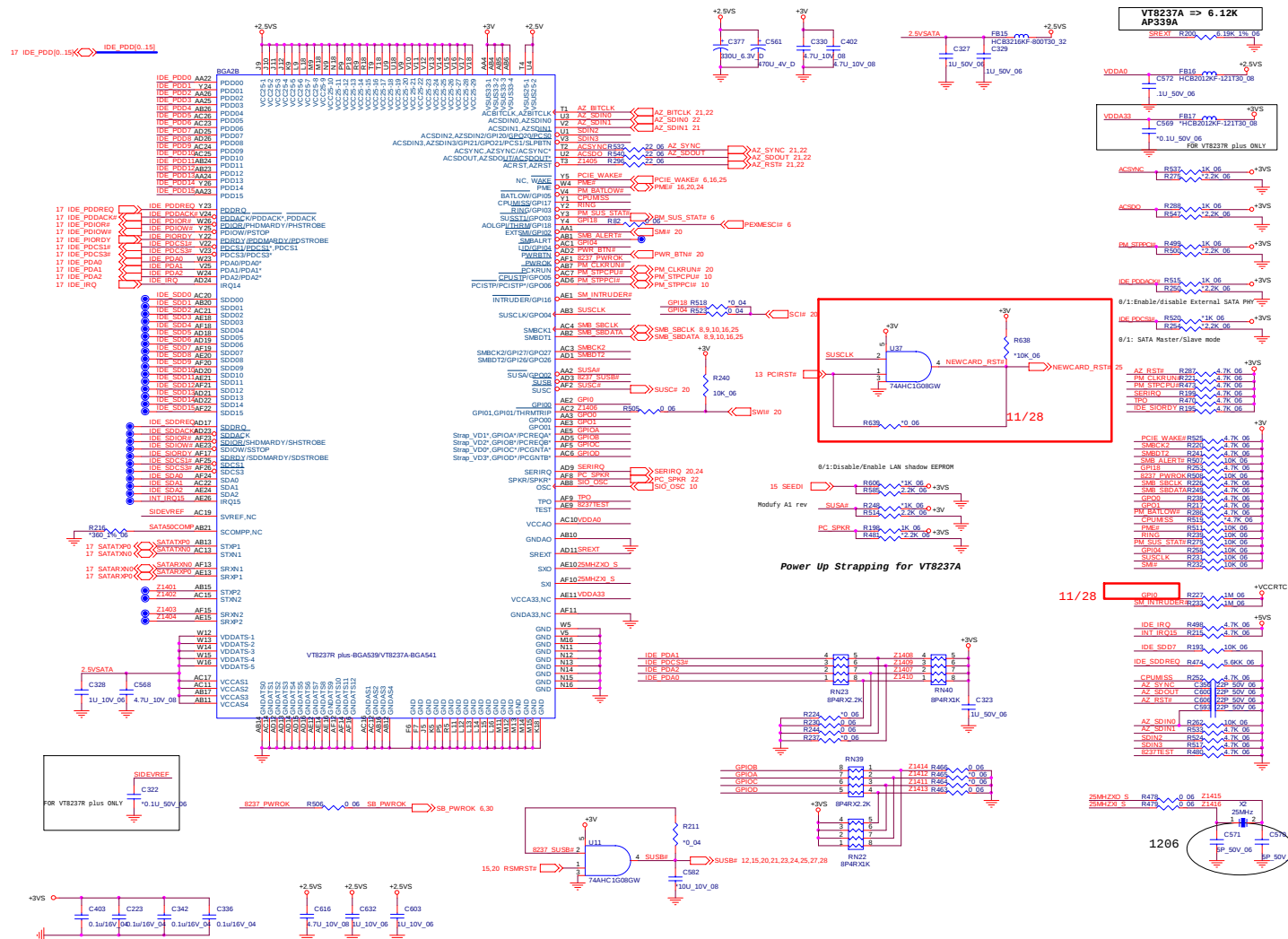
VT8237 1/3

Sheet 13 of 39
VT8237 1/3



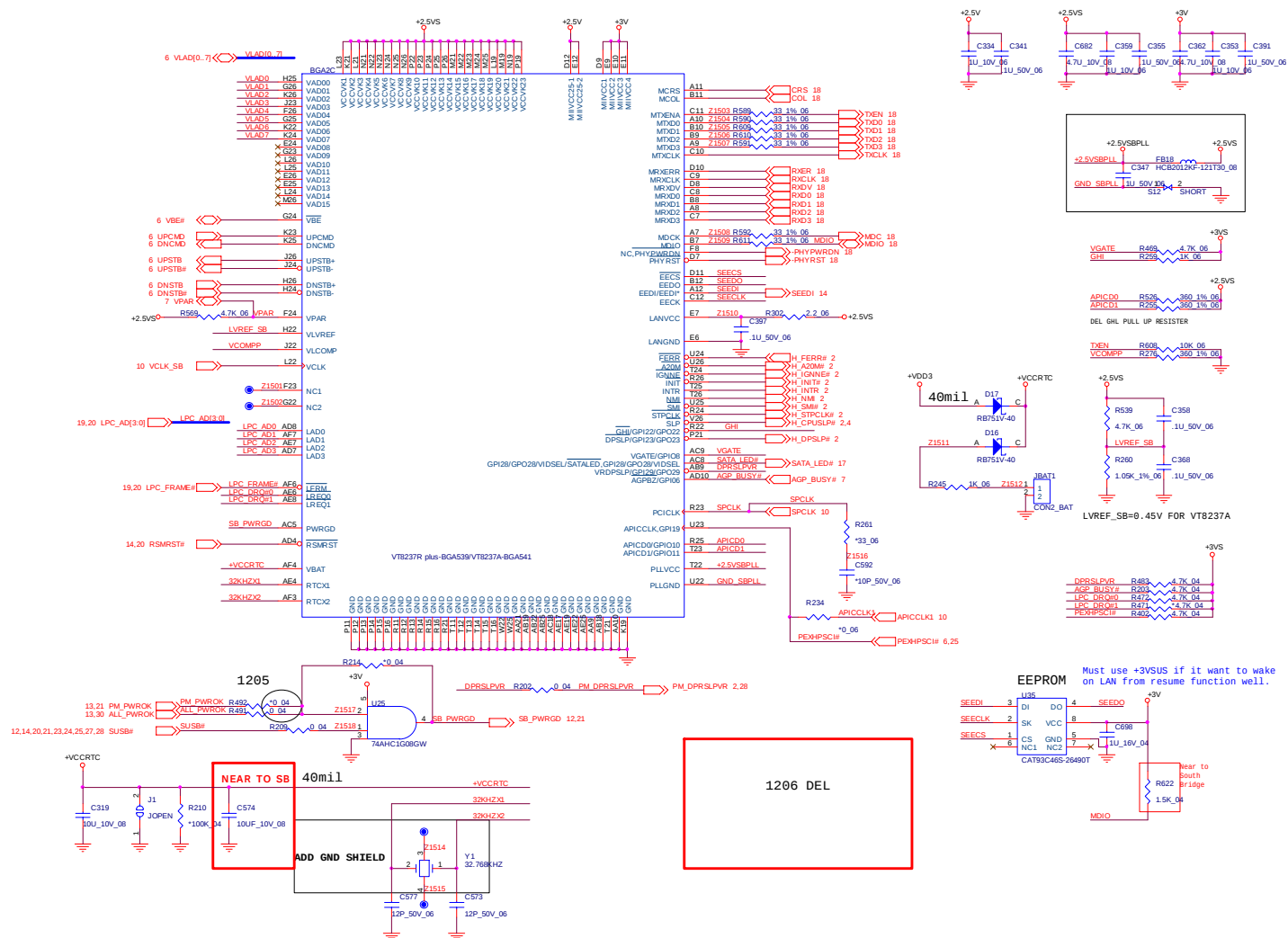
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VT8237 2/3

VT8237 2/3 B - 15

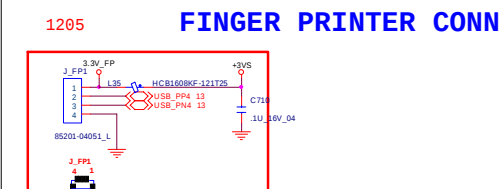
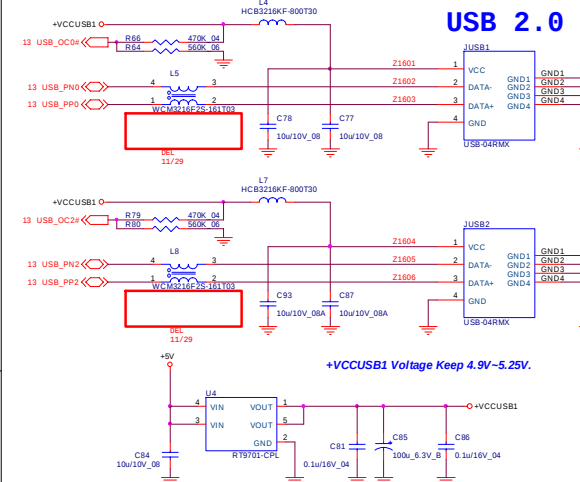
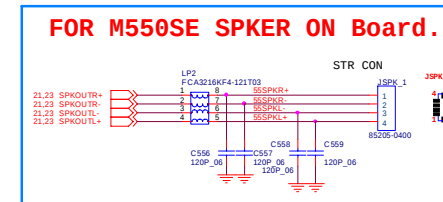
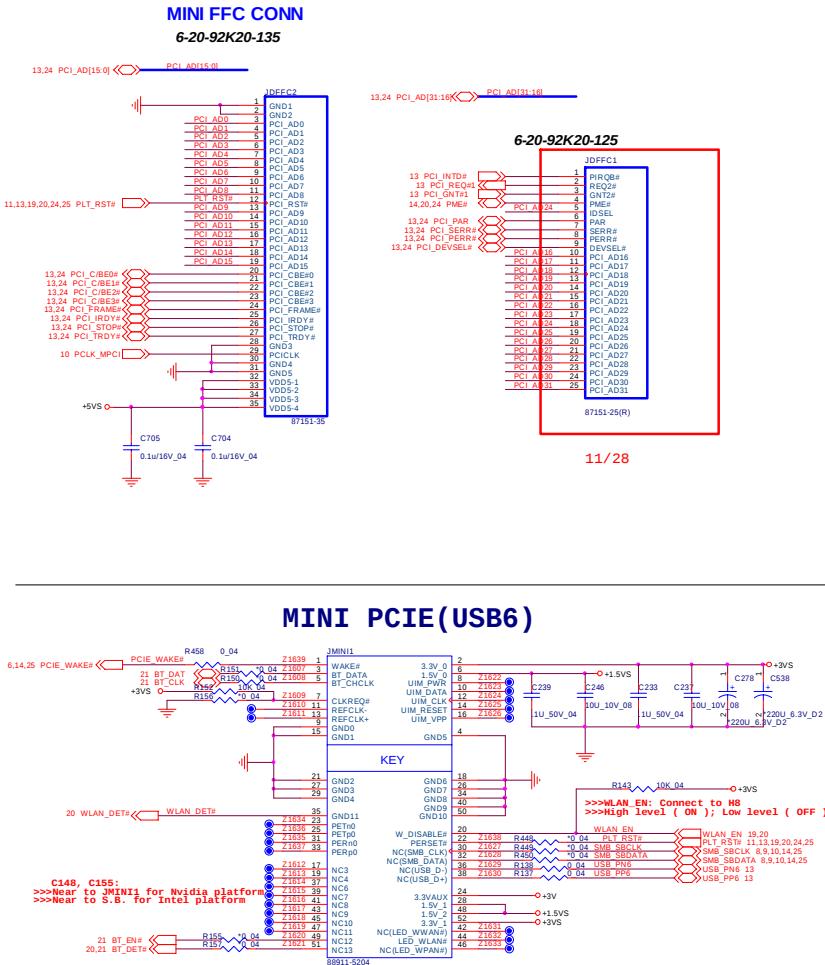


VT8237 3/3

Sheet 15 of 39
VT8237 3/3

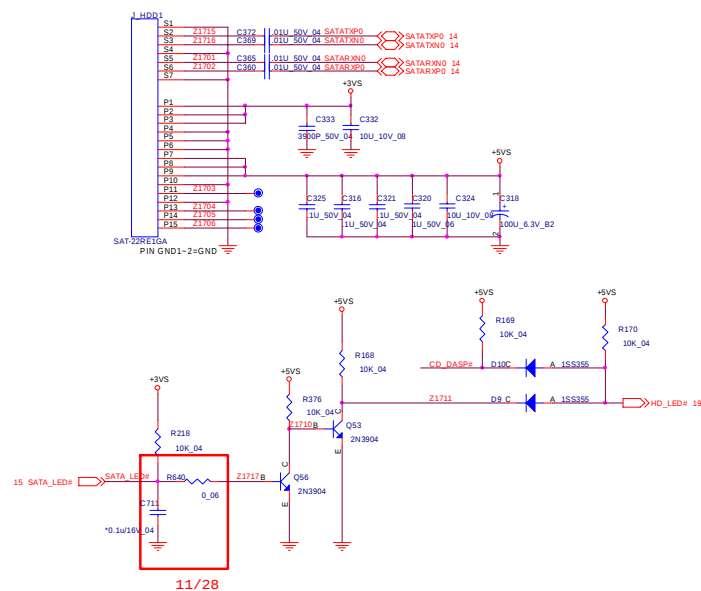


MINI PCI, MINI Card, USB2.0*2, FP

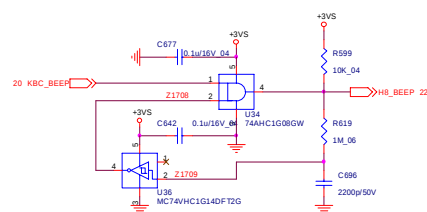


Sheet 16 of 39
MINI PCI,
MINI Card,
USB2.0*2, FP

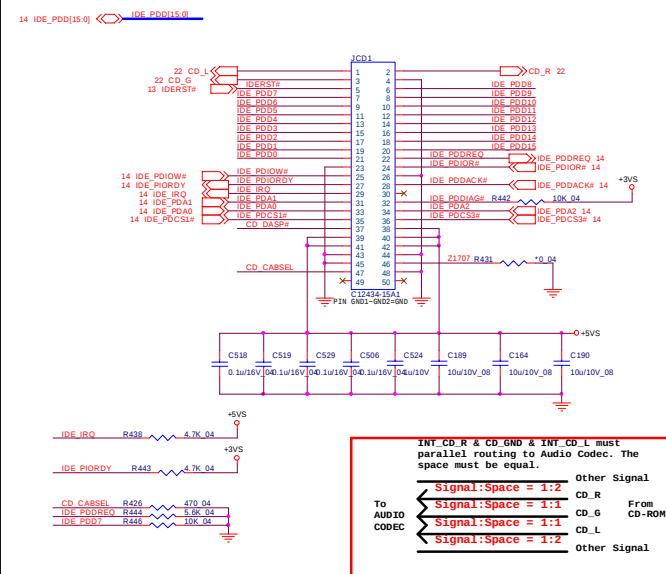
SATA HDD



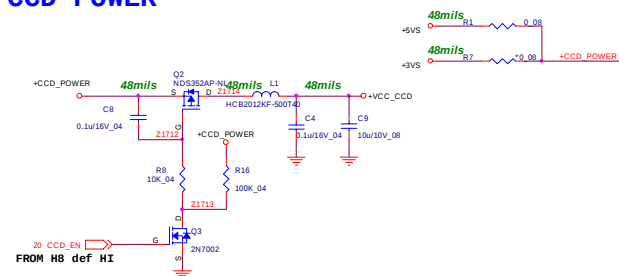
PC BEEP



CD-ROM



CCD POWER



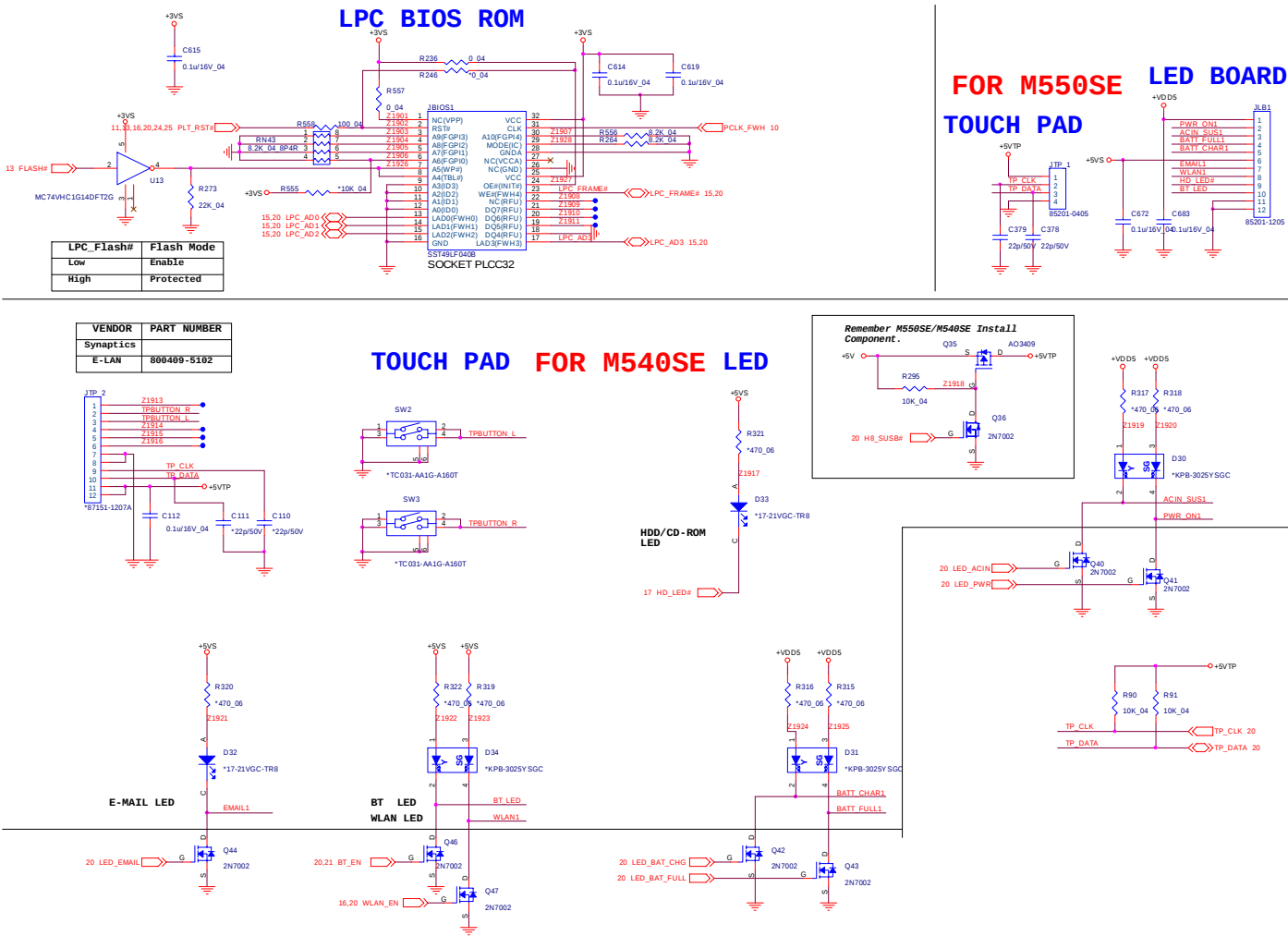
Sheet 18 of 39
LAN PHY



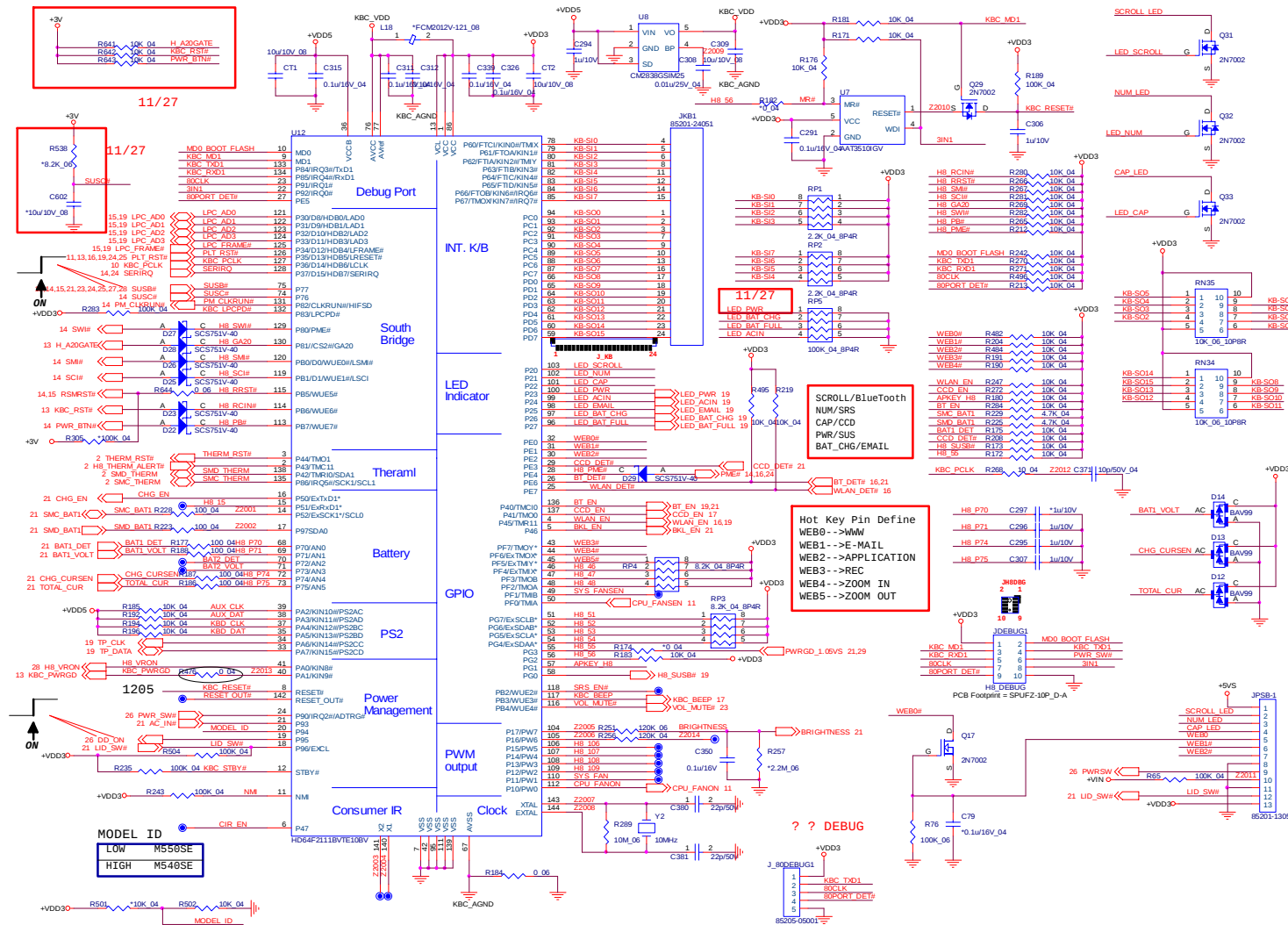
Schematic Diagrams

LPC ROM, TOUCH PAD, LED

Sheet 19 of 39
LPC ROM,
TOUCH PAD, LED



H8-2111

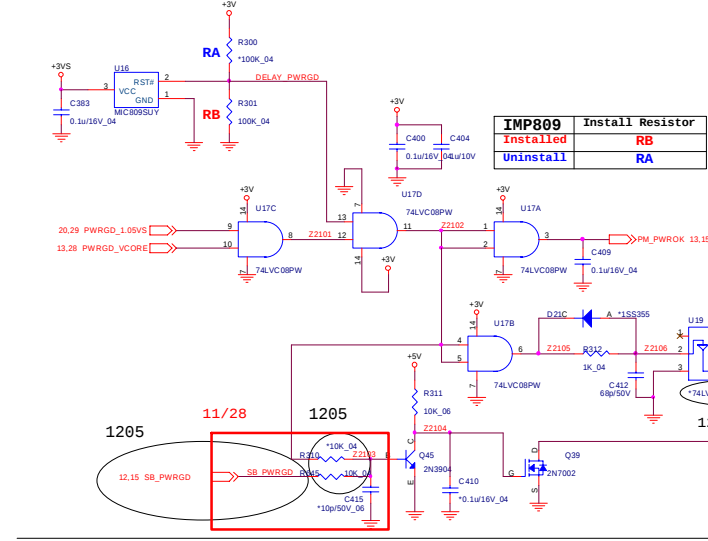
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H8-2111

Schematic Diagrams

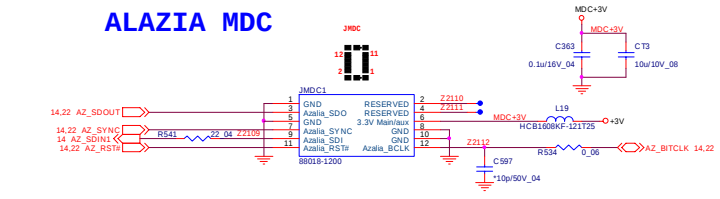
MDC, USB BT, PWRGD, DDB CON

Sheet 21 of 39
MDC, USB BT,
PWRGD, DDB CON

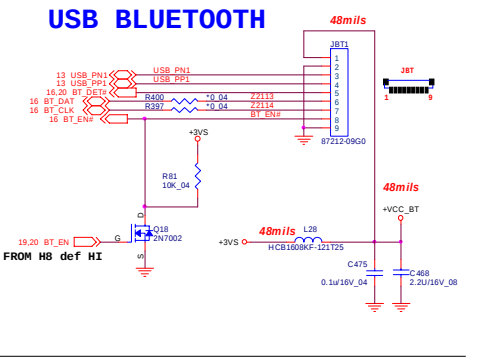
ALL POWER OK TO SB



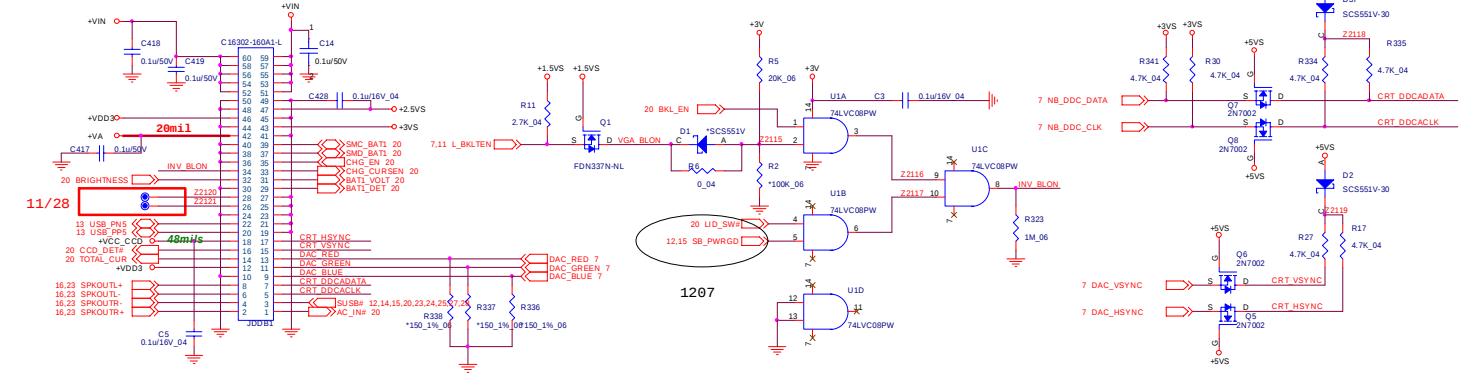
ALAZIA MDC



USB BLUETOOTH



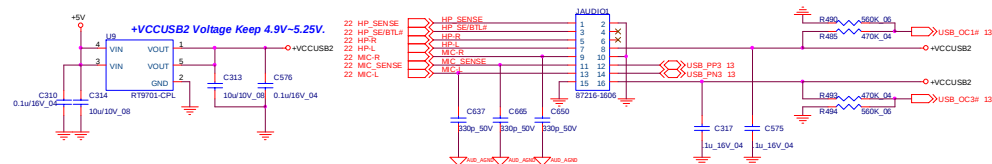
TO MULTI-FUNCTION BOARD



Sheet 22 of 39
Audio VT1708A/
ALC883



Sheet 23 of 39
AUDIO AMP,
USB2.0*2

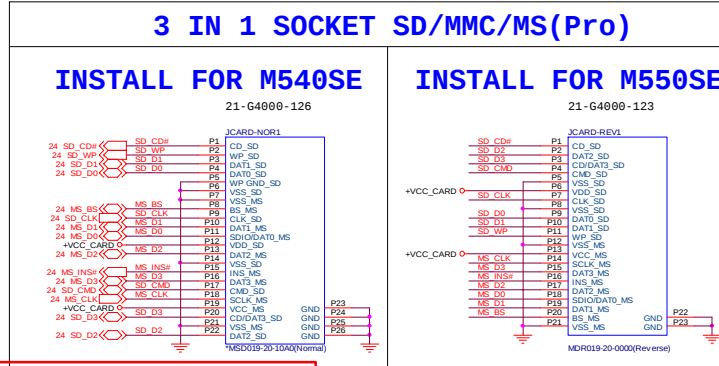


B.Schematic Diagrams

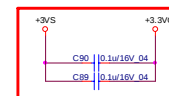
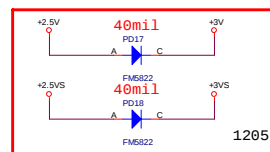
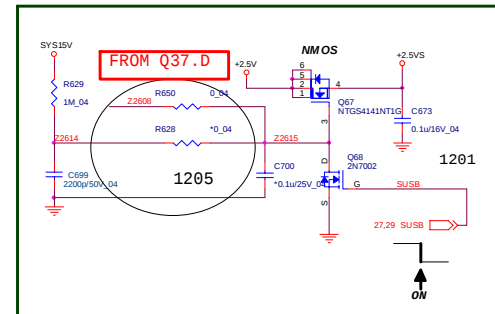
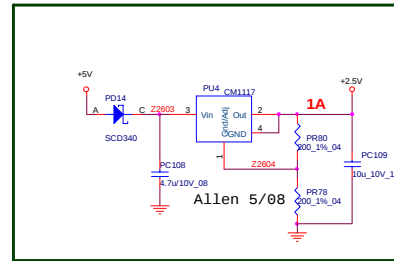
[illegible]

PCI ENE MR510 B - 25

Sheet 25 of 39
NEW CARD,
3-IN-1 SOCKET



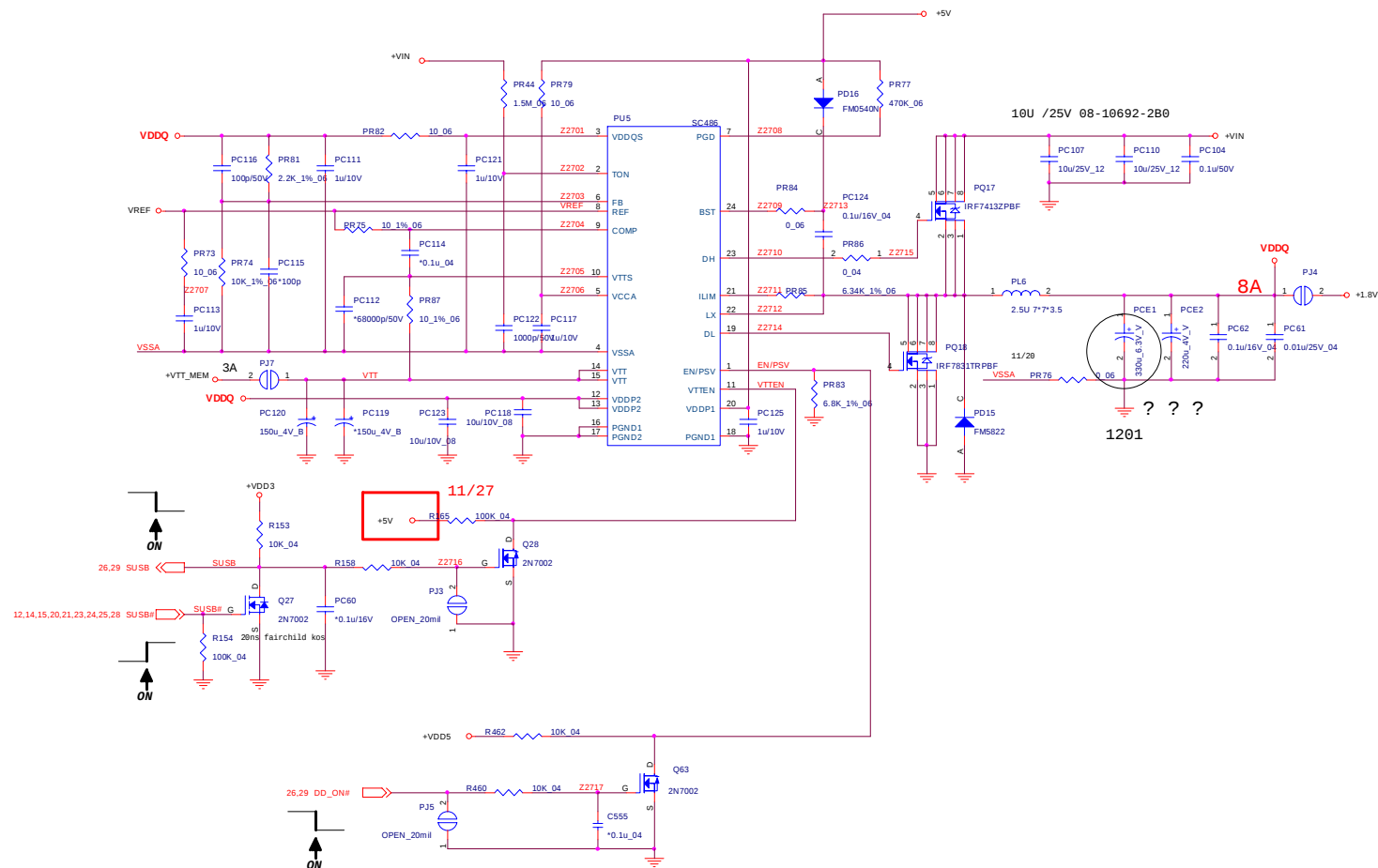
Sheet 26 of 39
5V, 3V, 5VS, 3VS,
2.5V, 2.5VS



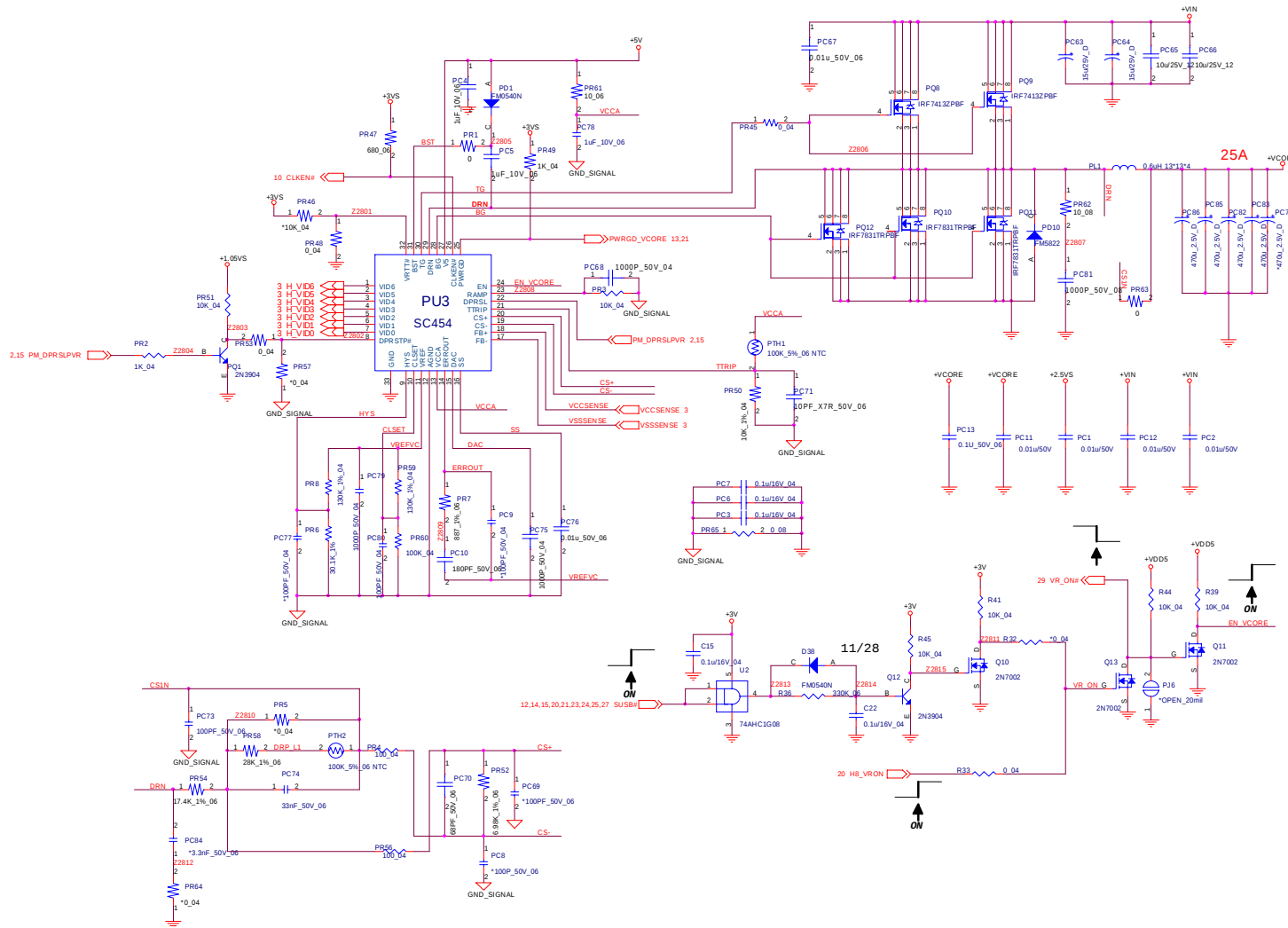
B.Schematic Diagrams

B.Schematic Diagrams

B.Schematic Diagrams



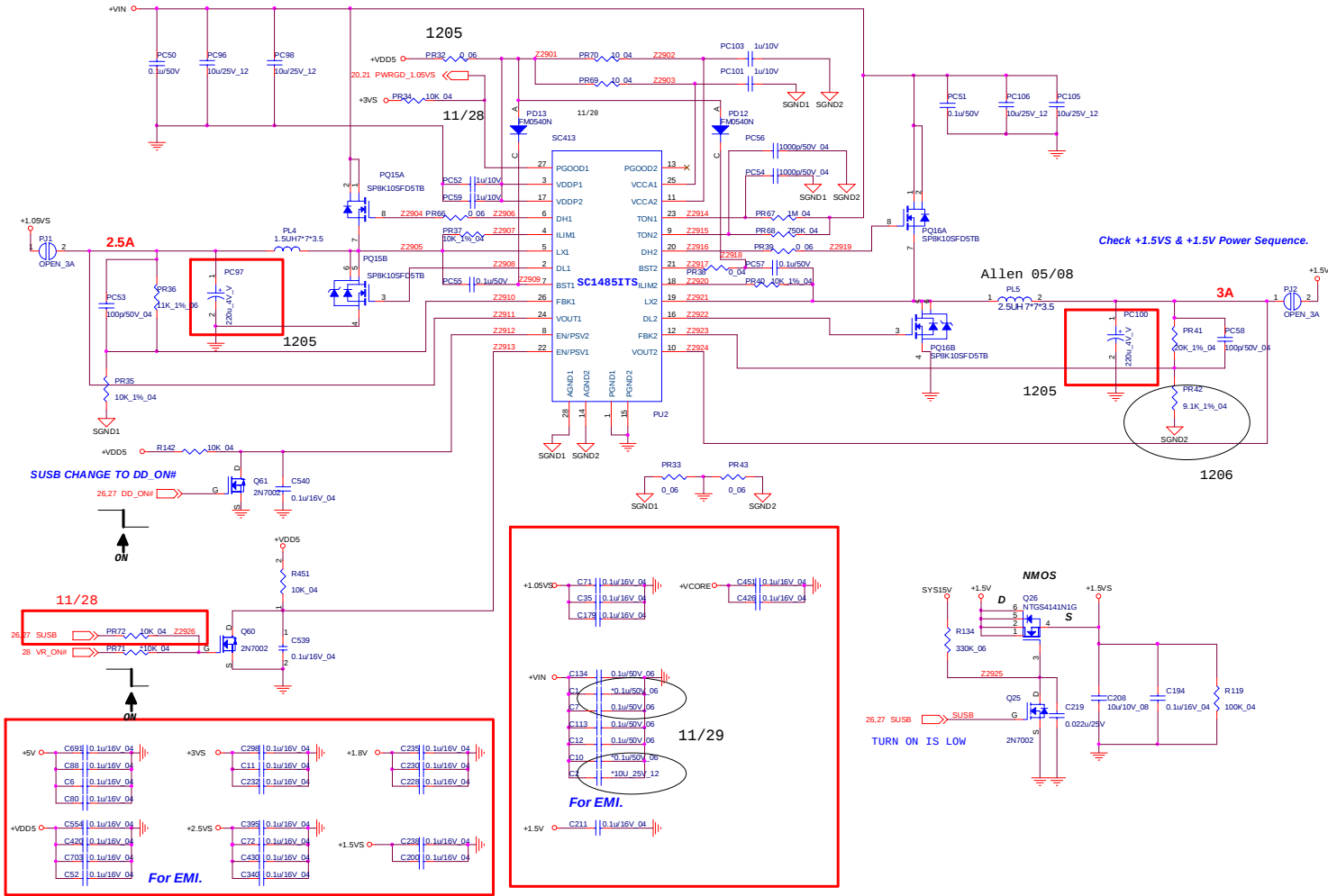
VCORE

Sheet 28 of 39
VCORE

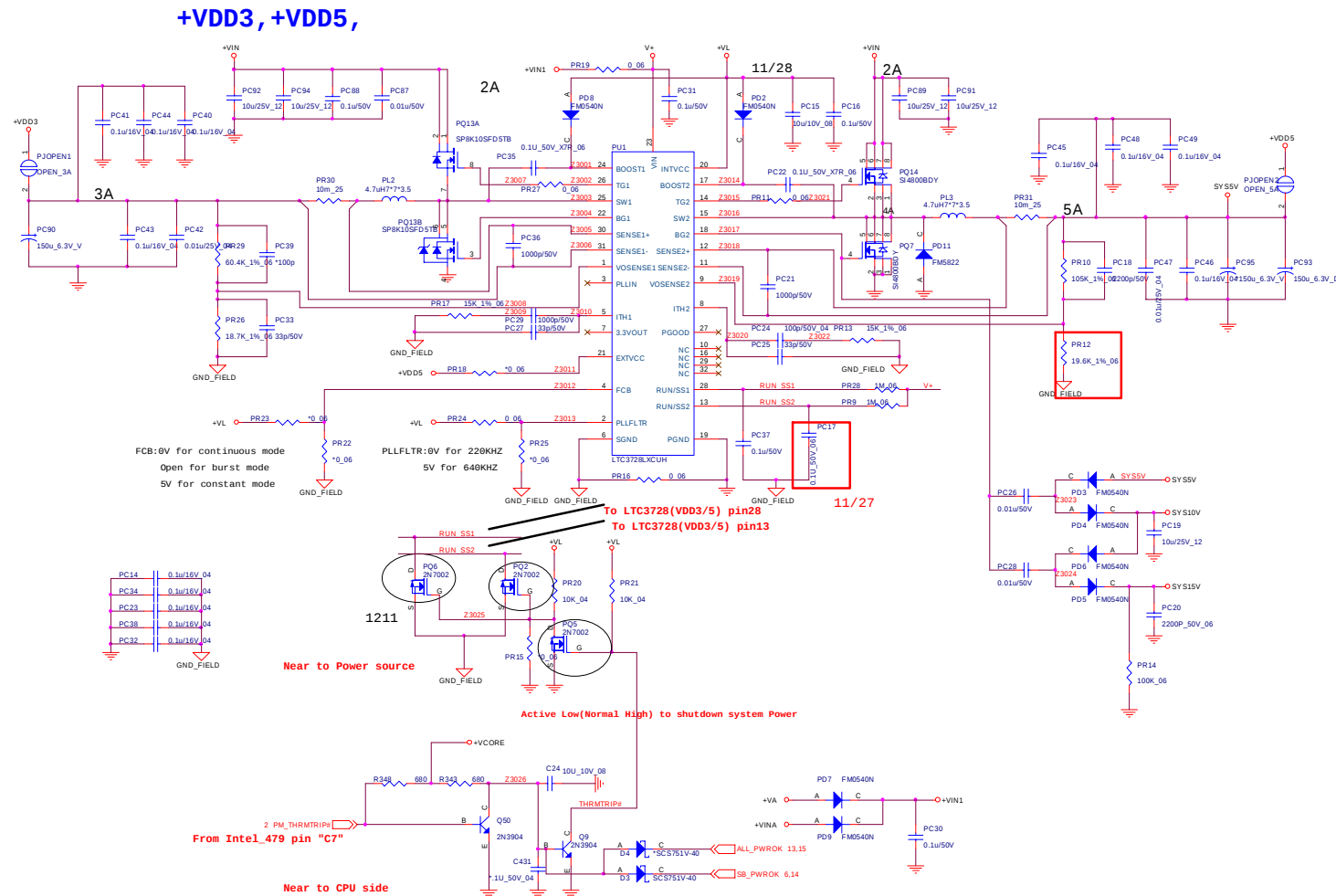
Schematic Diagrams

+1.05VS, 1.5V, 1.5VS

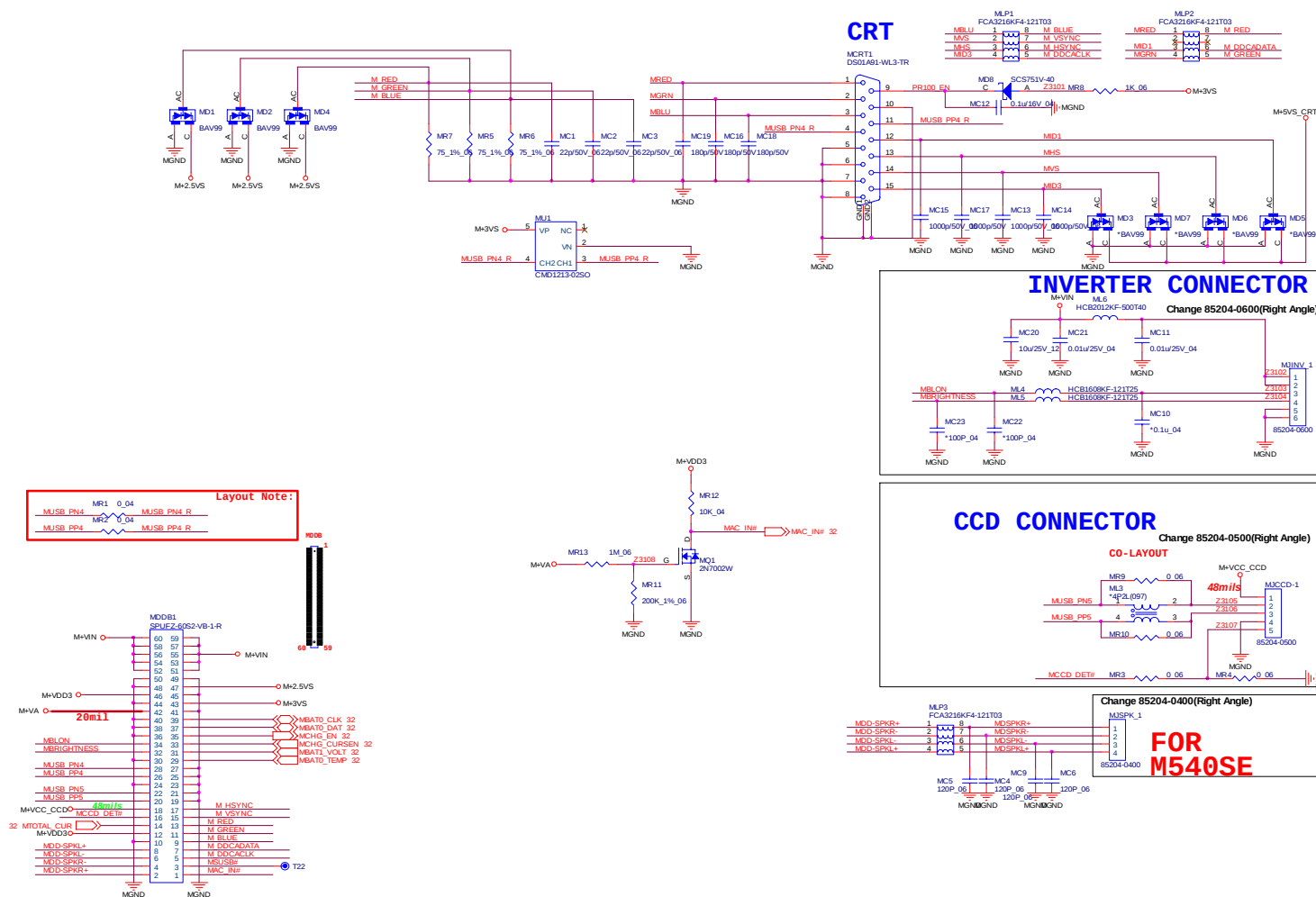
Sheet 29 of 39
+1.05VS, 1.5V,
1.5VS



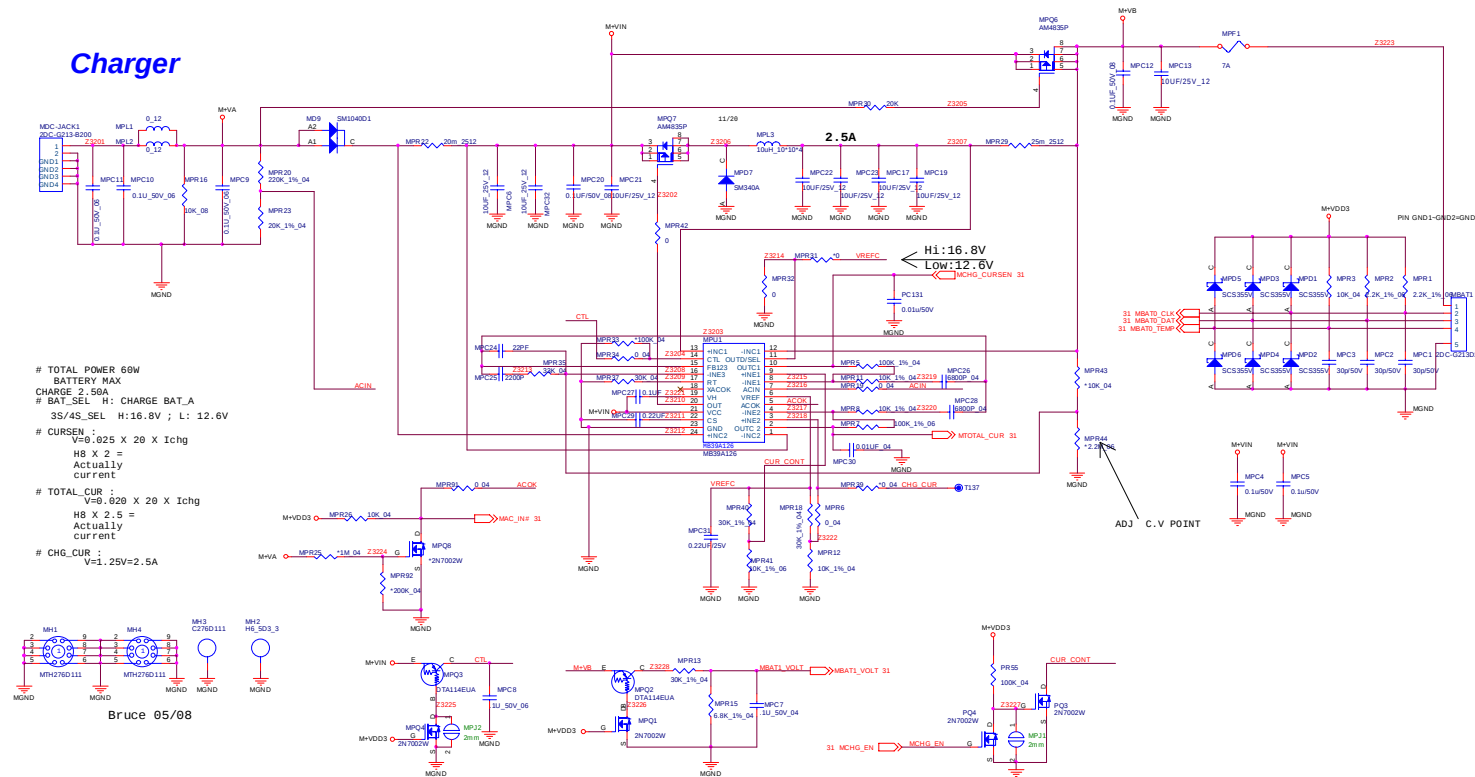
+VDD3, +VDD5 B - 31



Sheet 31 of 39
D/D BD (CRT,
INVERTER, CCD,
RJ-11)



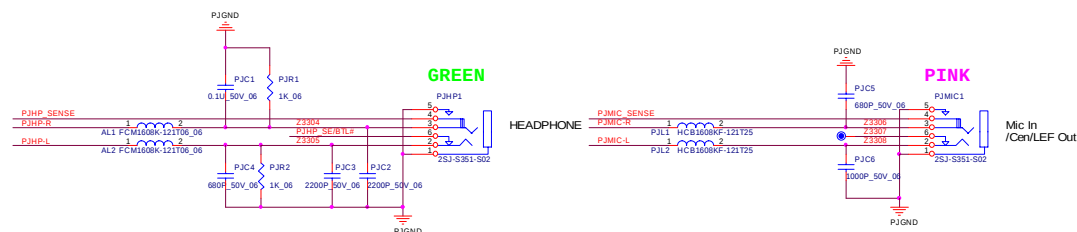
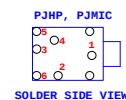
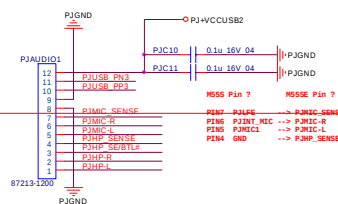
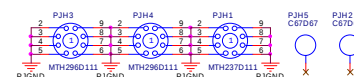
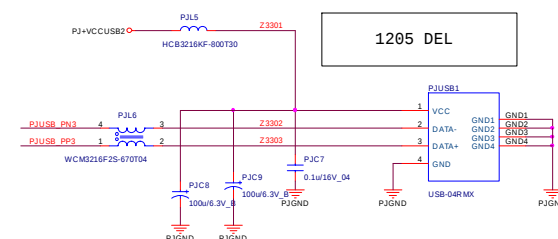
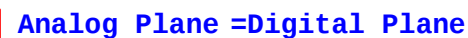
D/D BD (CHARGER, DC IN)



Sheet 32 of 39
D/D BD
(CHARGER, DC IN)

Analog Plane =Digital Plane

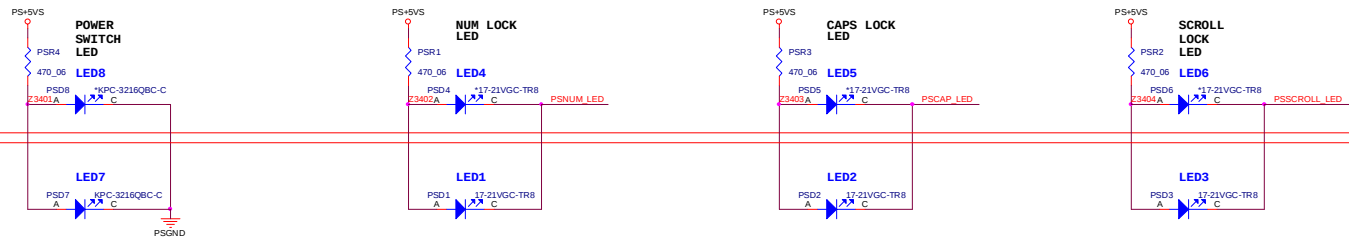
B - 34 AUDIO BD (PHONE JACK, USB, RJ-11)



HOT KEY BD (HOT KEY, LED, LID)

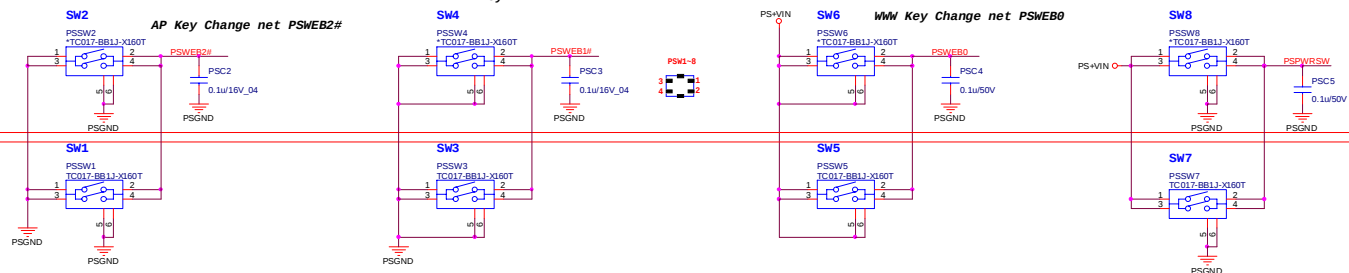
Sheet 34 of 39
HOT KEY BD
(HOT KEY, LED, LID)

FOR M540SE



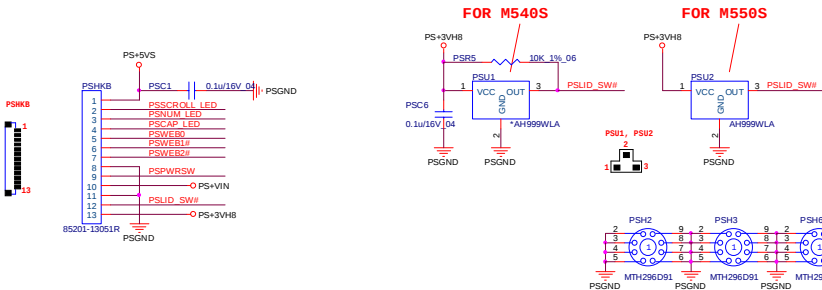
FOR M550SE

FOR M540SE



FOR M550SE

LID SWITCH IC



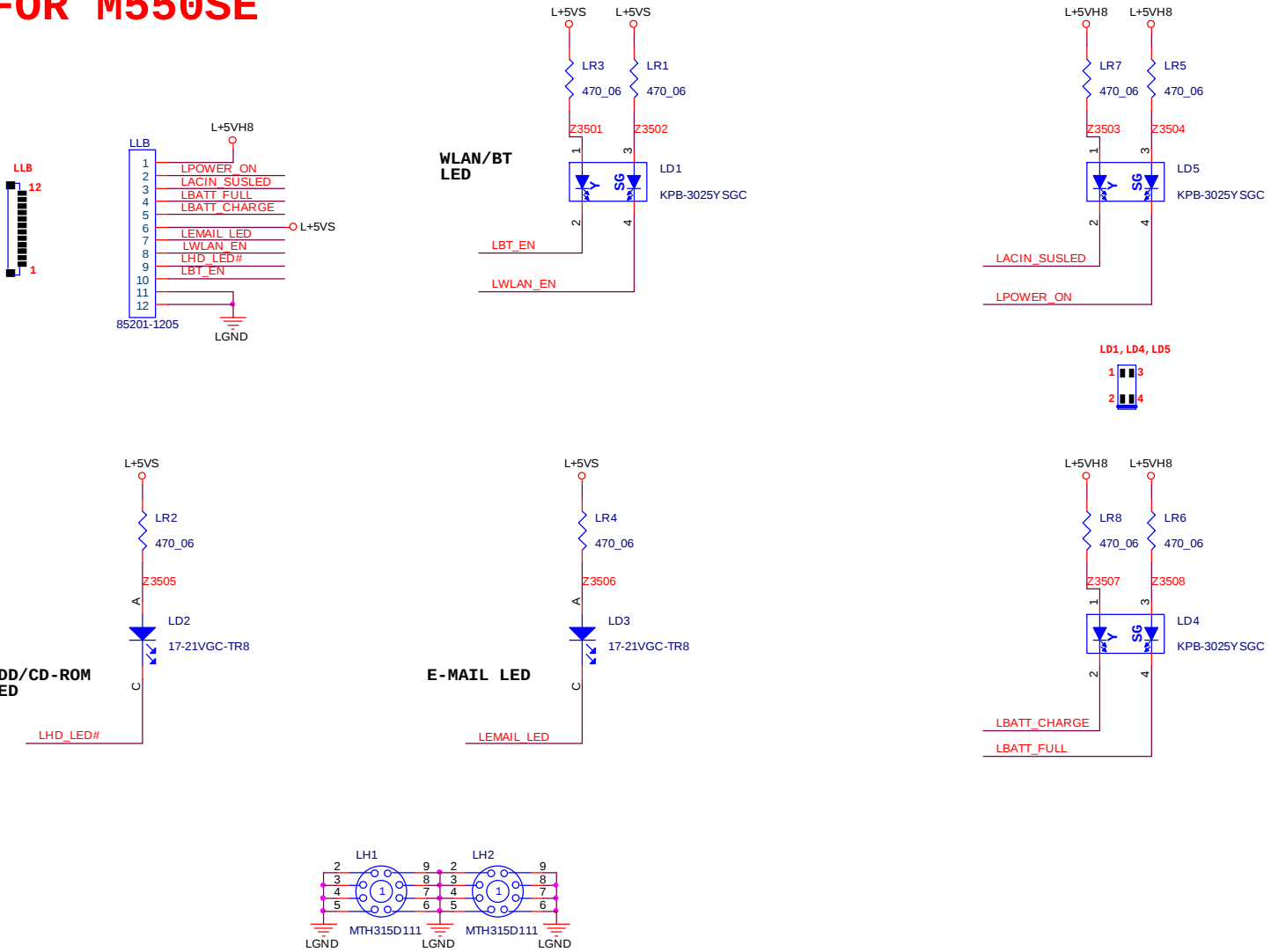
	LED1	LED2	LED3	LED4	LED5	LED6	LED7	LED8	MR SENSOR
M540SE	X	X	X	V	V	V	X	V	PSU1
M550SE	V	V	V	X	X	X	V	X	PSU2

	SW1	SW2	SW3	SW4	SW5	SW6	SW7	SW8
M540SE	X	V	X	V	X	V	X	V
M550SE	V	X	V	X	V	X	V	X

Schematic Diagrams

LED BOARD
FOR M550SE

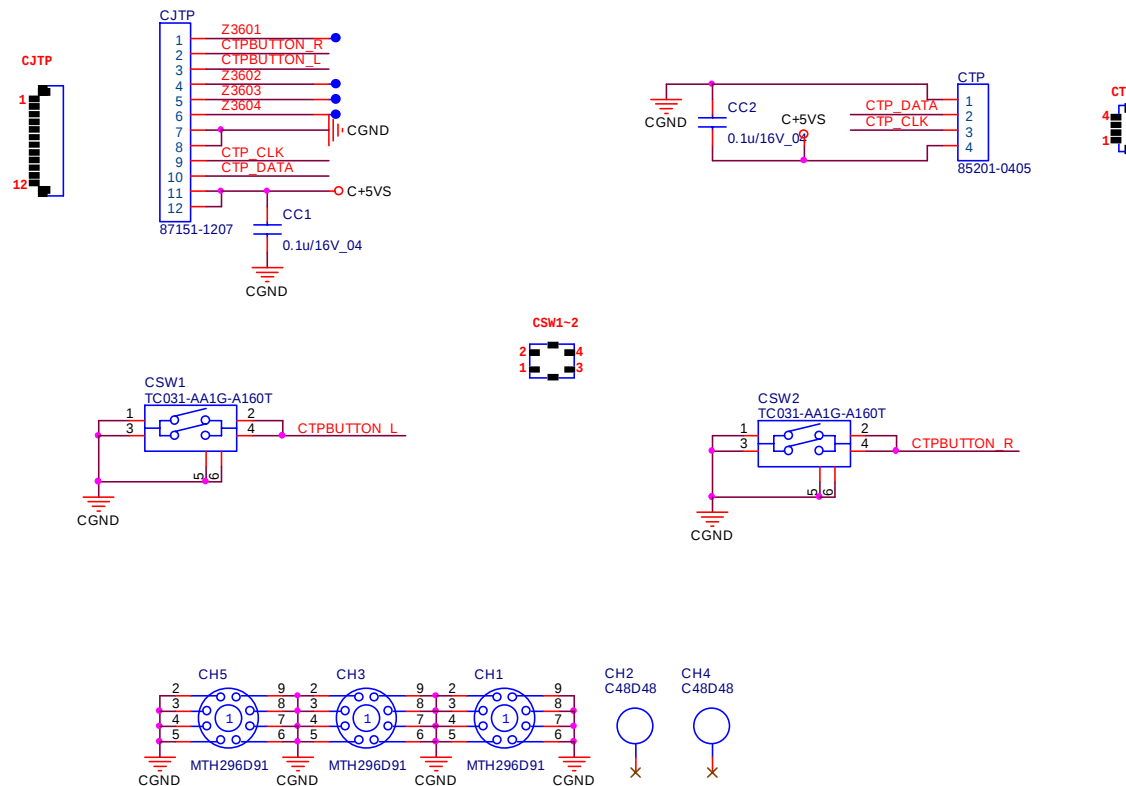
Sheet 35 of 39
LED BOARD
(FOR M550SE)



CLICK BOARD

FOR M550SE

VENDOR	PART NUMBER
Synaptics	
E-LAN	800409-5102

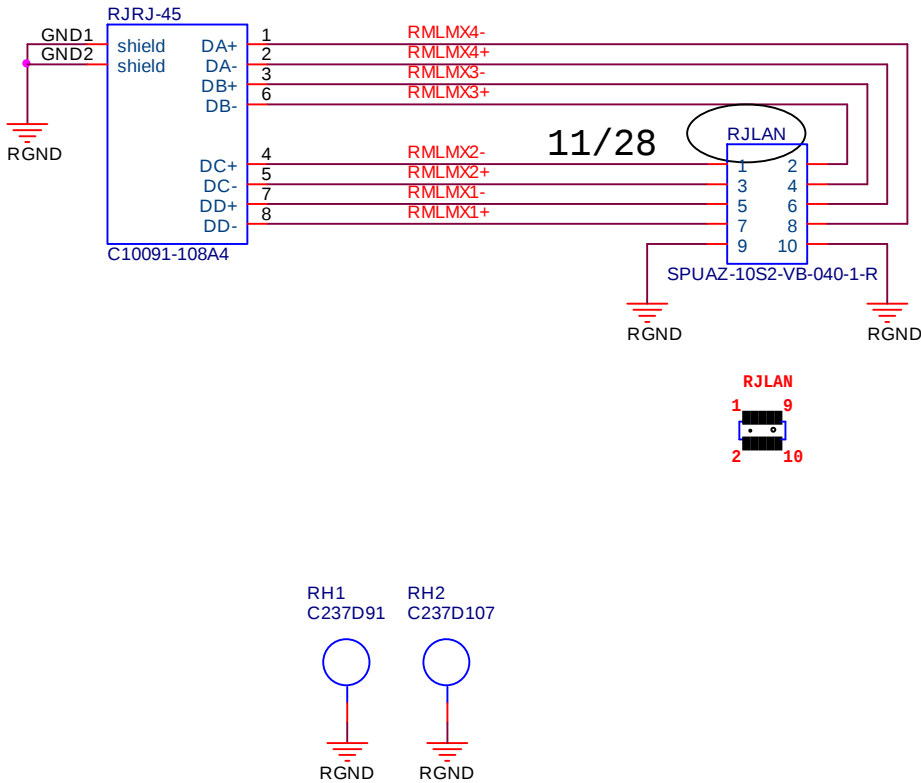


Sheet 36 of 39
CLICK BOARD
(FOR M550SE)

Schematic Diagrams

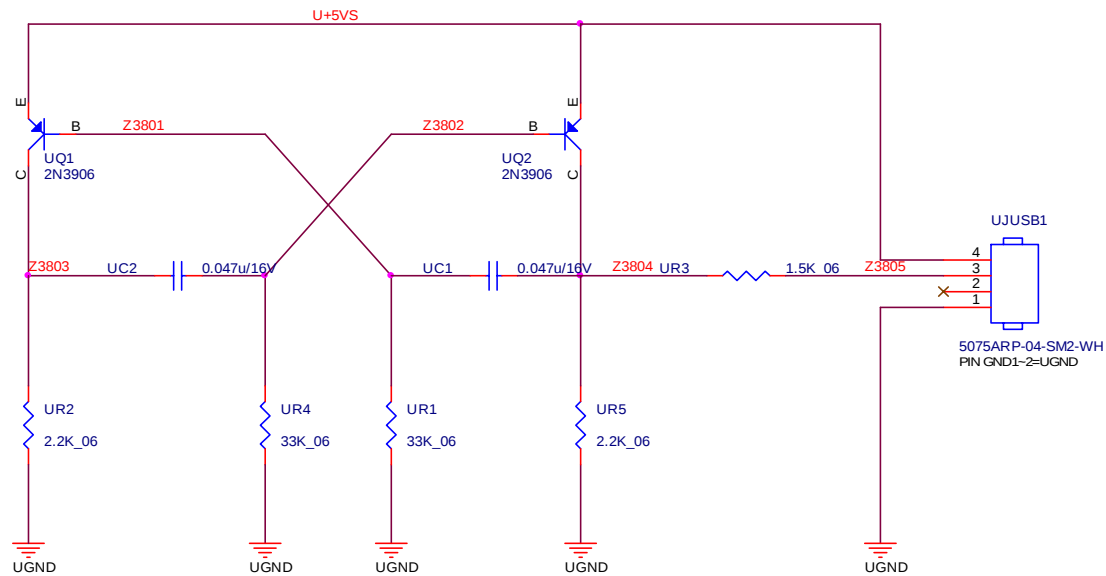
RJ-45 BOARD

Sheet 37 of 39
RJ-45 BOARD



USB DONGLE BOARD

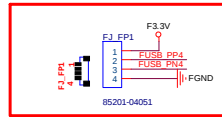
USB DANGLE BOARD



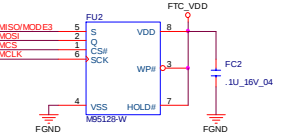
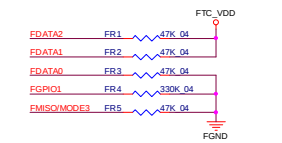
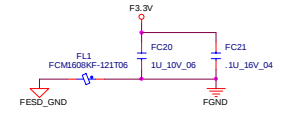
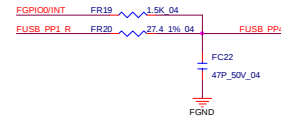
Sheet 38 of 39
USB DONGLE
BOARD

Schematic Diagrams

FINGERPRINT BOARD



1205



Sheet 39 of 39
FINGERPRINT
BOARD

