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CLASS	<OrgAddr4>	EC No. N11104
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		BLOCK DIAGRAM
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EC LIST



PreDV

- 1. Base Logic : Kodachi-2 SVT ver3.07 (2008/05/27)
- 2. repalce ODD to SATA; add Dock Con; add Express Card slot; add 2nd phase of VCORE DC/DC; change Audio con to jack
- 3. update EC from SNM\_PDV\_EC001 to SNM\_PDV\_EC012
- 4. update EC from SNM\_PDV\_EC013 to SNM\_PDV\_EC023
- 5. update EC from SNM\_PDV\_EC024 to SNM\_PDV\_EC030
- 6. update EC from SNM\_PDV\_EC031 to SNM\_PDV\_EC041
- 7. update EC from SNM\_PDV\_EC042 to SNM\_PDV\_EC045
- 8. update EC from SNM\_PDV\_EC046 to SNM\_PDV\_EC049
- 9. update EC from SNM\_PDV\_EC050 to SNM\_PDV\_EC052;
- 10. update EC from SNM\_PDV\_EC053 to SNM\_PDV\_EC056; change dock conn to JAE\_080616; update screw hole;
- 11. update EC from SNM\_PDV\_EC057 to SNM\_PDV\_EC059;swap back and left usb connector partnumber ;
- 12. update EC from SNM\_PDV\_EC060 to SNM\_PDV\_EC063; add testpoint ;
- 13. update EC from SNM\_PDV\_EC064 to SNM\_PDV\_EC075
- 14. update EC from SNM\_PDV\_EC076 to SNM\_PDV\_EC092
- 15. update EC from SNM\_PDV\_EC093 to SNM\_PDV\_EC102
- 16. update EC from SNM\_PDV\_EC103 to SNM\_PDV\_EC108; swap RN45/RN46/D103/D104 signals for easy wiring; change screw hole footprint base on ME drawing .
- 17. update EC from SNM\_PDV\_EC111 to SNM\_PDV\_EC119;
- 18. update from EC SNM\_PDV\_EC120 to SNM\_PDV\_EC126; Add stud of Mini\_PCIE Card;change screw hole footprint base on ME drawing ; add EMC finger; change SPI flash footprint for easy debug,
- 19. update EC SNM\_PDV\_EC129; Delete EMC finger; change testpoint for DDR and FSB; change DDR3 connector base on DB list.

MechSIV

- 1. Change H8 package from BGA to TQFP; change J31 supply PN to QT510406-3111-7F; change J21/J30 to AS0A626-UERN-7F/AS0A626-UESN-7F
- 2. Udata EC from SNM\_MSIV\_EC001 to SNM\_MSIV\_EC034
- 3. Udata EC from SNM\_MSIV\_EC035 to SNM\_MSIV\_EC042;change DDR3 connector base on DB list; Swap pin of T1/RN45/RN46/D103/D104 for easy layout.
- 4. Udata EC from SNM\_MSIV\_EC043 to SNM\_MSIV\_EC046
- 5. Swap pin of T1/D103/D104 for easy layout. Update EC from SNM\_MSIV\_EC051 to SNM\_MSIV\_EC053
- 6. Swap pin of T1/D103/D104 . Add test point for POA signals . Update EC from SNM\_MSIV\_EC054 to SNM\_MSIV\_EC058
- 7. Udata EC from SNM\_MSIV\_EC059 to SNM\_MSIV\_EC064;Correct DDR3/ RJ45 Suppply PN

SIV

- 1. Udata EC from SNM\_SIV\_EC001 to SNM\_SIV\_EC020
- 2. Udata EC from SNM\_SIV\_EC021 to SNM\_SIV\_EC026
- 3. Udata EC from SNM\_SIV\_EC027 ; change USB\RJ45\MINIPCI conn according ME drawing; add frame for express card slot\dummy sim card\ bracket for sim slot\ screw for express card; Change J23 to ASM
- 4. Udata EC from SNM\_SIV\_EC029 to SNM\_SIV\_EC030; NO ASM R9228\9229
- 5. Udata U49 footprint;
- 6. Udata some tempory PN to Lenovo PN, change C9071 from Y5V to X5R, update U2 value to rev D; updat SNM\_SIV\_EC031 to SNM\_SIV\_EC035; Add mylar information
- 7. Udata EC from SNM\_SIV\_EC037;

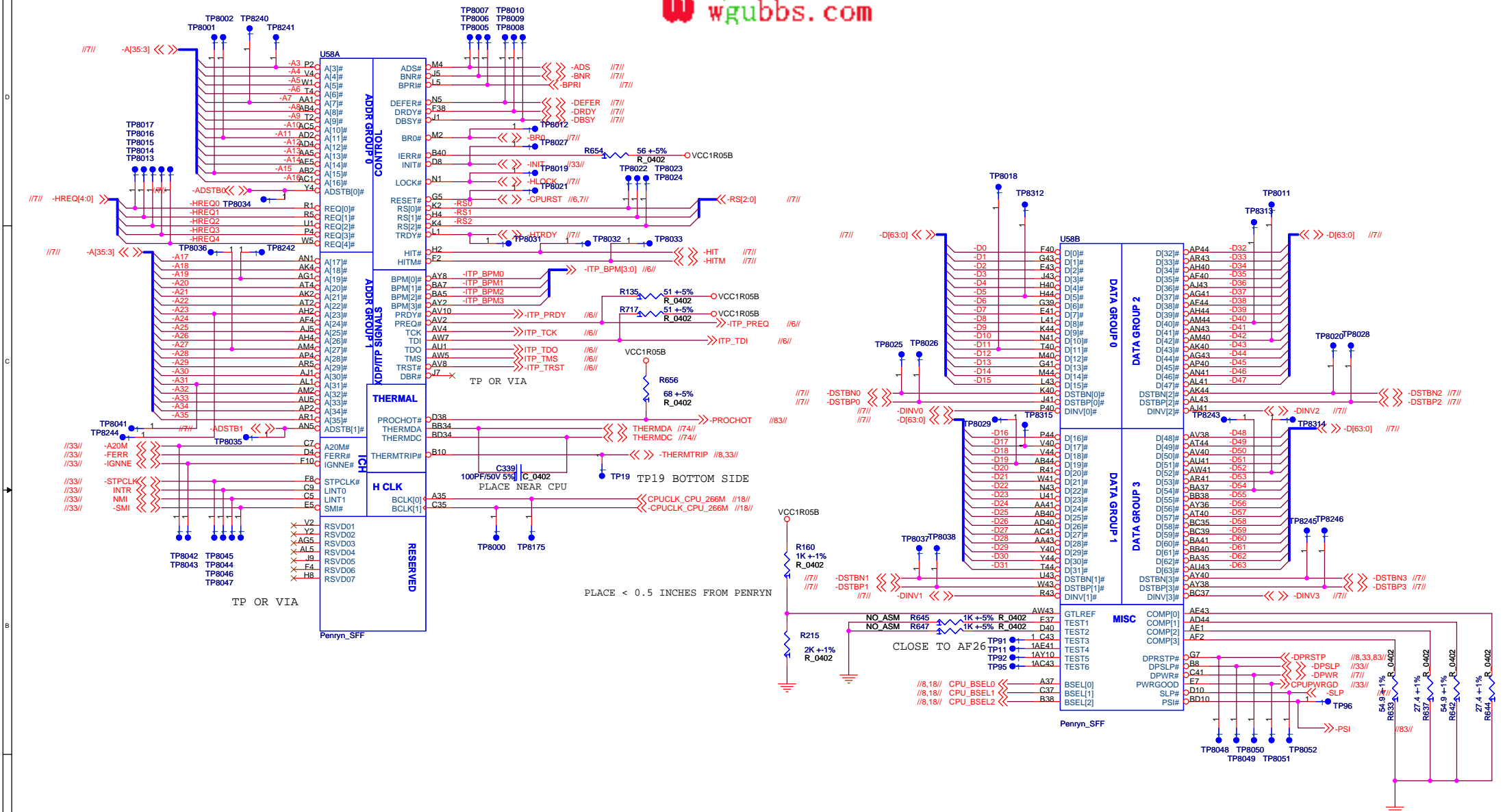
MechSIT

- 1. Udata EC from SNM\_SIV\_EC038 to SNM\_SIV\_EC039
- 2. Udata EC from SNM\_MSIT\_EC001 to SNM\_MSIT\_EC009
- 3. Udata EC from SNM\_MSIT\_EC010 to SNM\_MSIT\_EC016; Update USB/DP connector base on ME connect list
- 4. Udata EC from SNM\_MSIT\_EC017 to SNM\_MSIT\_EC029; Update LCD/LED/RTC/FAN connector base on ME list
- 5. Udata EC from SNM\_MSIT\_EC030 to SNM\_MSIT\_EC044; delete some unused DMI testpoint.
- 6. Udata EC from SNM\_MSIT\_EC045 to SNM\_MSIT\_EC051; Update audio conn and exress conn


SIT

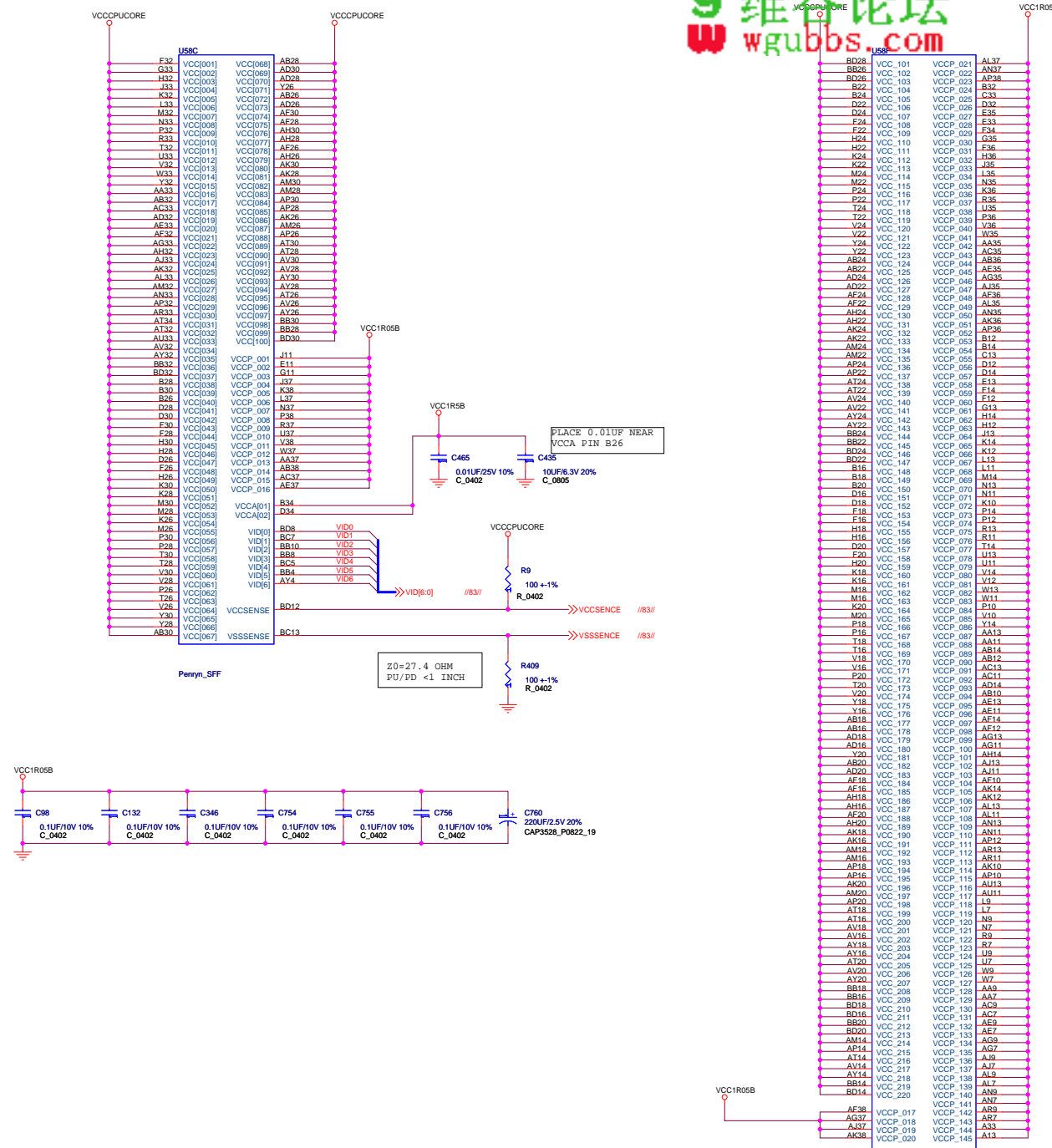
- 1. Udata EC SNM\_SIV\_EC055; Update U98 change to PI2PCIE2412
- 2. Udata EC from SNM\_SIT\_EC001 to SNM\_SIT\_EC009; update planar ID to 0100B;
- 3. Delete A22/A23; change A29 size
- 4. Update EC from SNM\_SIT\_EC010 to SNM\_SIT\_EC011;
- 5. Update EC from SNM\_SIT\_EC012 to SNM\_SIT\_EC015; Udata EC from SNM\_SIV\_EC056 to SNM\_SIV\_EC057; Add mylar for NB and CPU

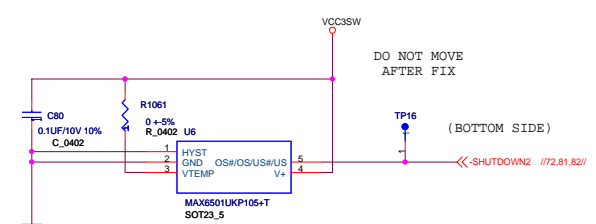
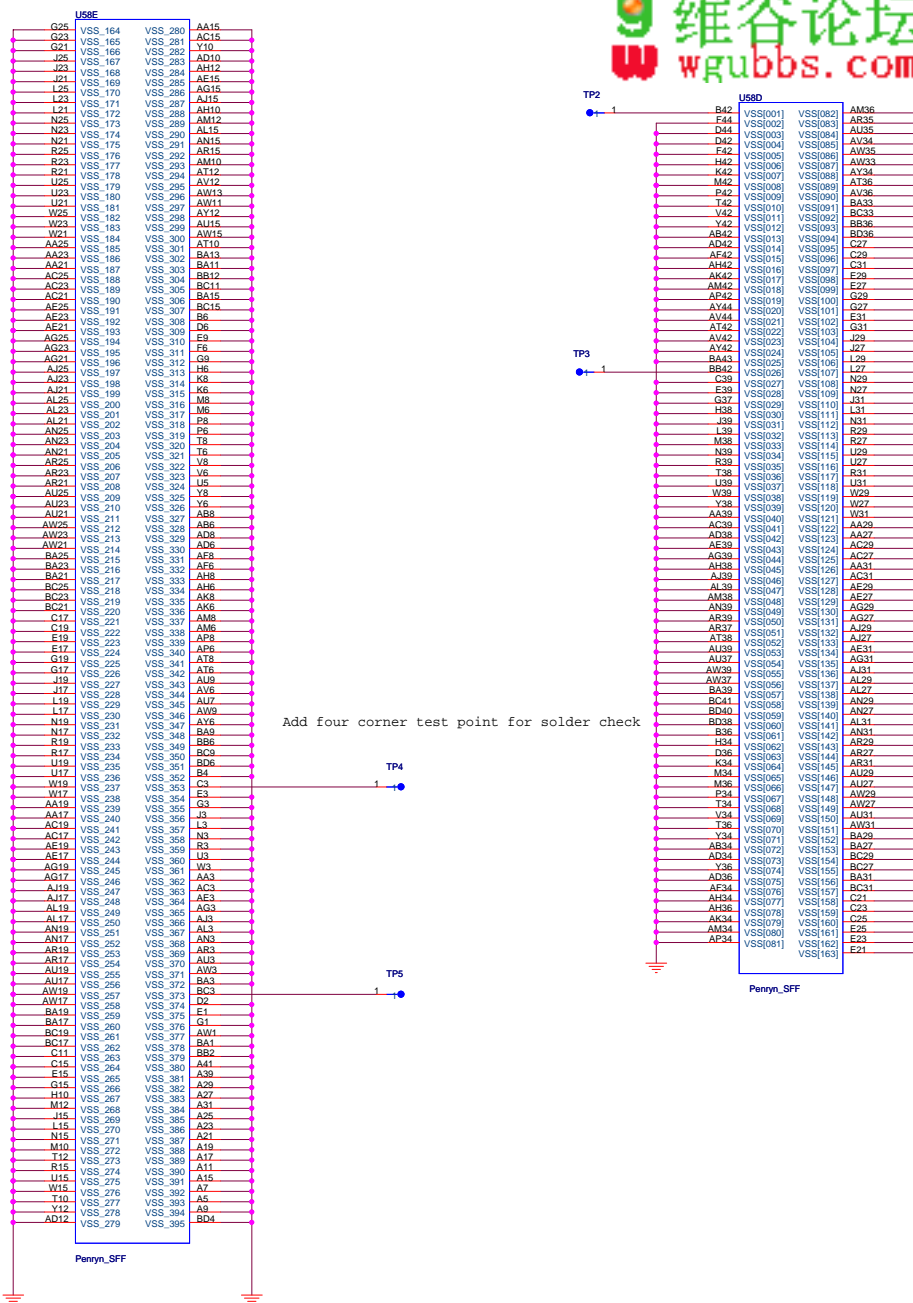
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		Change list
LENOVO CONFIDENTIAL		sheet 2 of 102 Friday, January 09, 2009



```
COM0/2: Z0=27.4 OHM TRACE<0.5"
COM1/3: Z0=55 OHM TRACE<0.5"
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LENOVO CONFIDENTIAL		TITLE: Shinai_MV Ver:5/1  CPU(1/3)  sheet 3 of 102 Friday, January 09, 2009

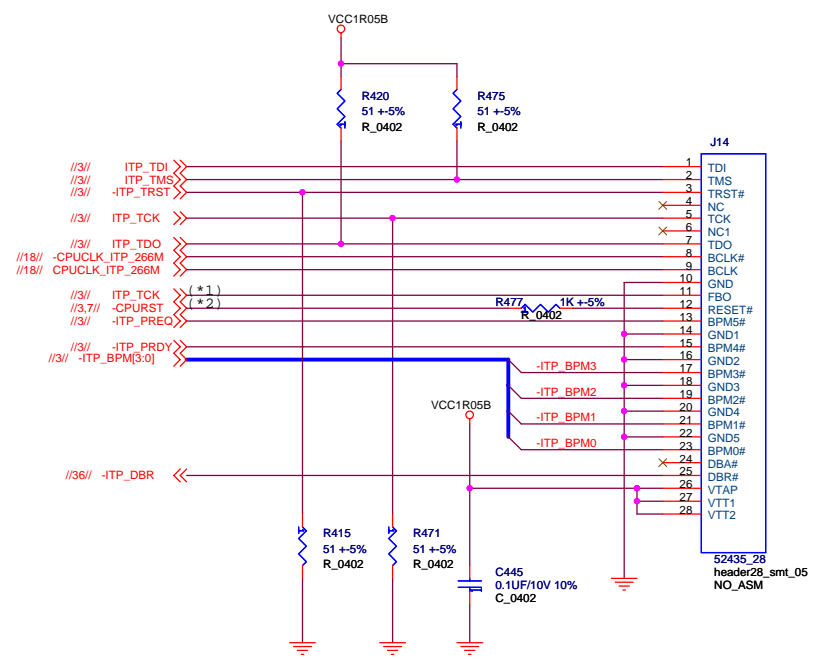




U1	R1061
NS LM26	NOASM
MAXIM MAX6519	NOASM
MAXIM MAX6501	ASM
ADI ADT6501	ASM
ROHM BDE1055G	ASM

Add four corner test point for solder check

Penryn\_SFF



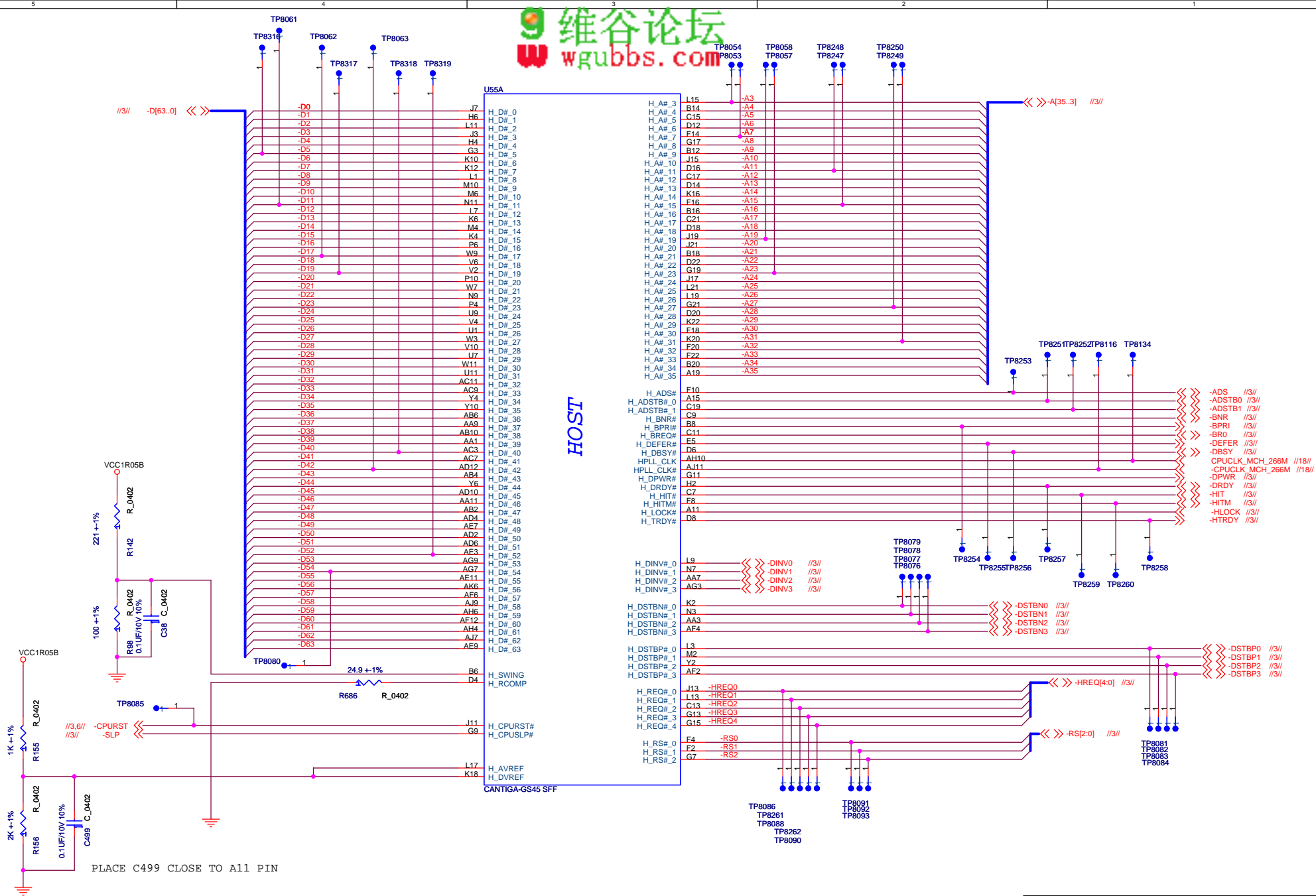
TABLE


REF	DES	PRODUCTION	ITP700FLEX	ITP-->XDP
J14		NO_ASM	ASM	ASM
C445		NO_ASM	ASM	ASM
R717	TDI	ASM	150 5% ASM	ASM(NO CHANGE)
R477	CPURST#	NO_ASM	150 5% ASM	1K 5% ASM
R415	TRST#	ASM	510 5% ASM	ASM(NO CHANGE)
R420	TDO	NO_ASM	51 5% ASM	51 5% ASM
R471	TCK	ASM	27.4 1% ASM	ASM(NO CHANGE)
R475	TMS	ASM	39.2 1% ASM	ASM(NO CHANGE)

NOTES: C445 and R447:"ASM" before SIT, "NO\_ASM" from SIT.  
J14 "ASM" for PRE\_DV only

(\*)1 TCK SIGNAL IS BRANCHED AT Penryn PIN  
(\*)2 -CPURST SIGNAL IS BRANCHED AT Cantiga PIN

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		ITP CONNECTOR
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NEED TP OR VIA FOR THESE PINS

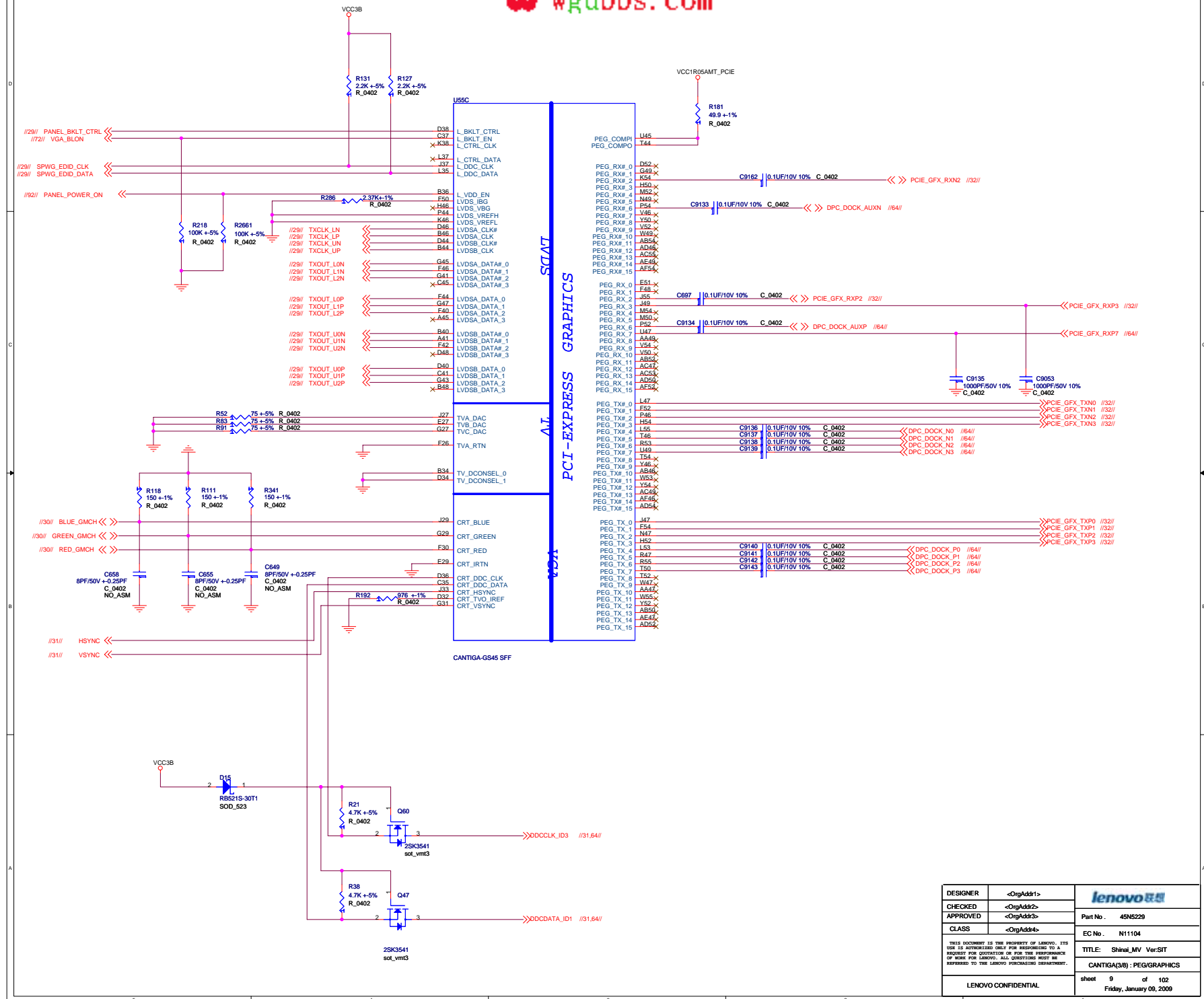
TABLE


CFG[17..3]	INTERNAL PULLUP
CFG[20:18]	INTERNAL PULLDOWN

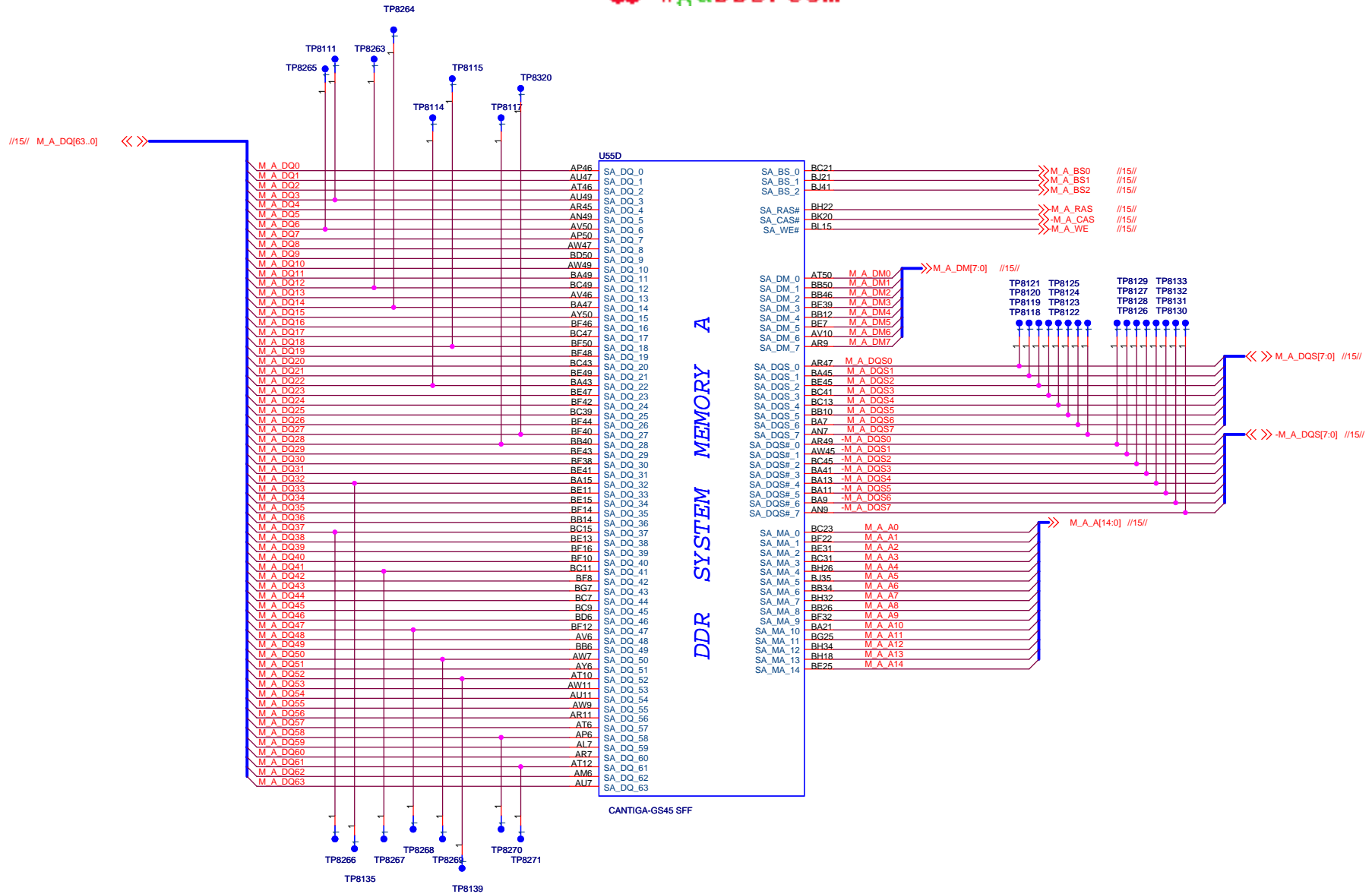
TP OR VIA

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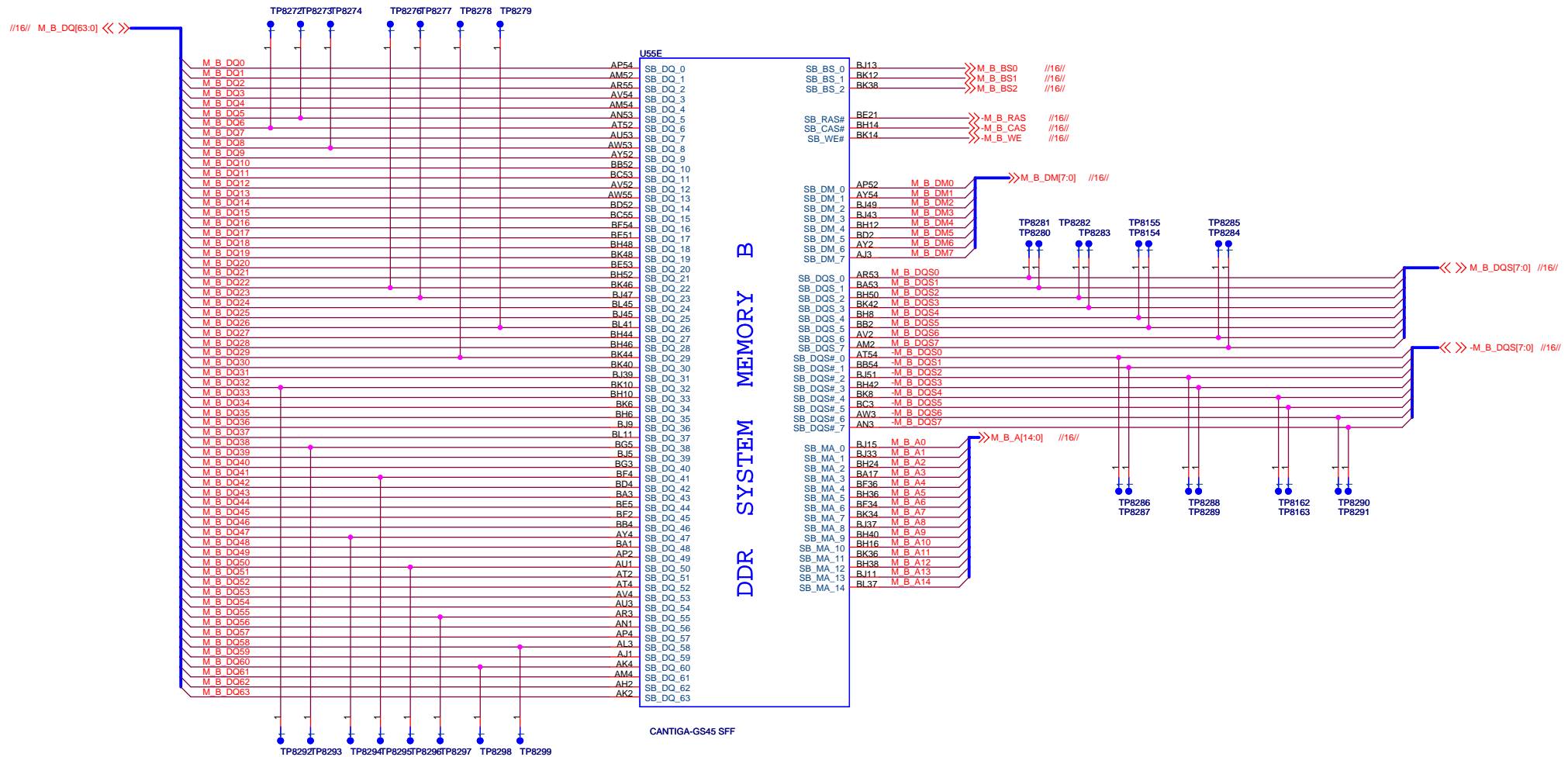




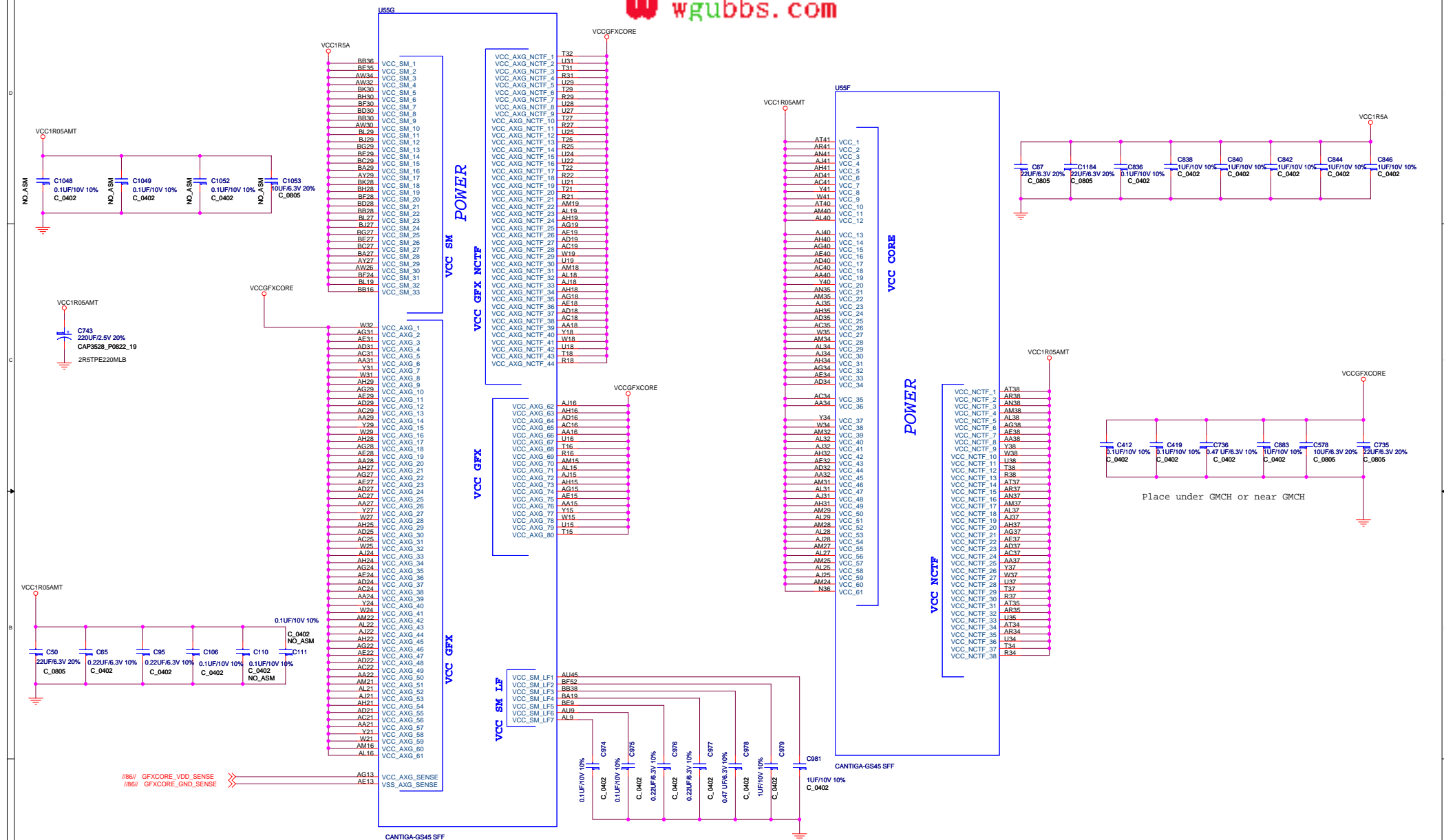
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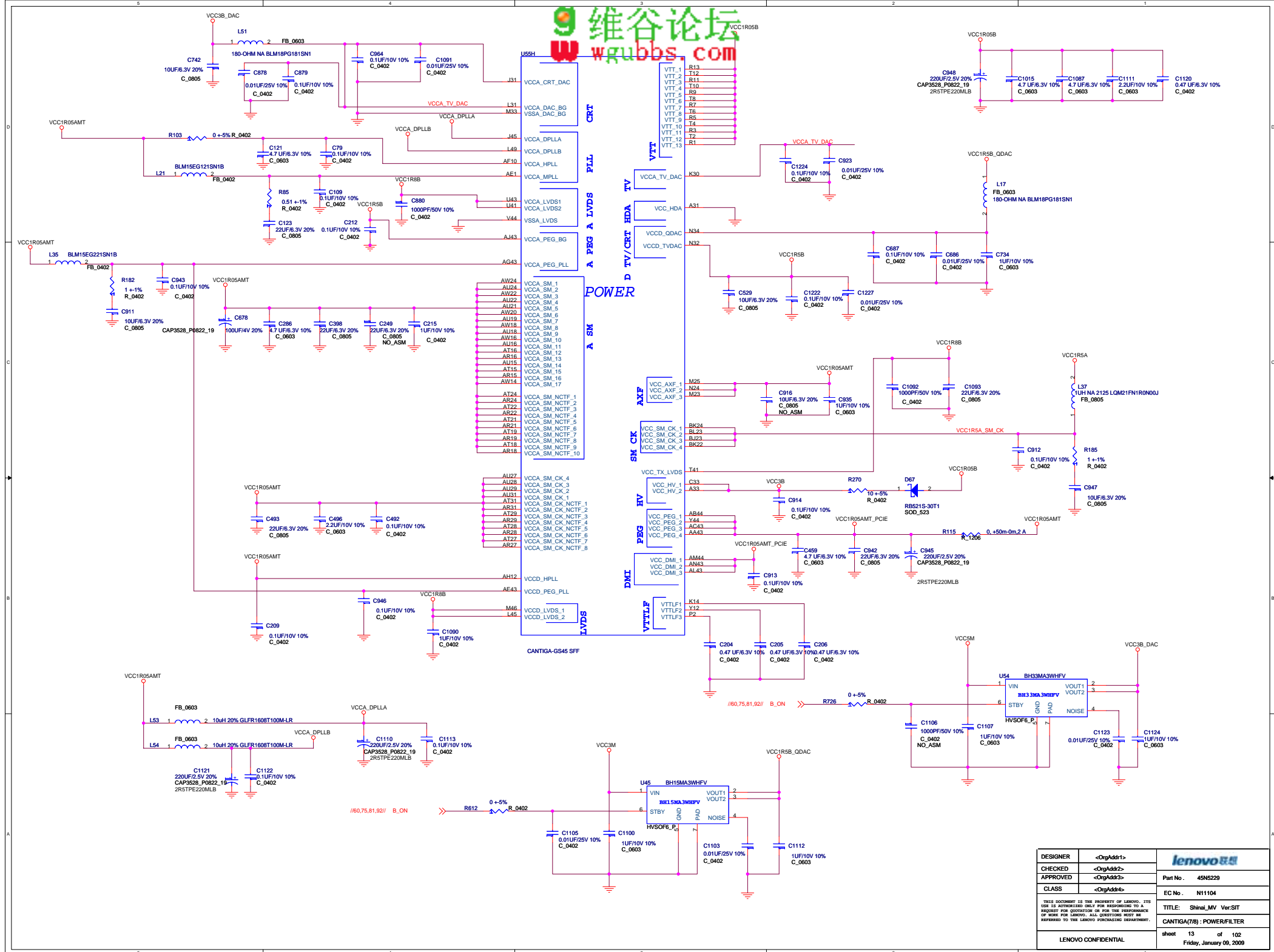
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LENOVO CONFIDENTIAL		CANTIGA(4/8) : DDR3 CHANNEL-A
		sheet 10 of 102 Friday, January 09, 2009




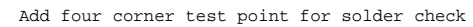
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LENOVO CONFIDENTIAL		CANTIGA(5/8) : DDR3 CHANNEL-B
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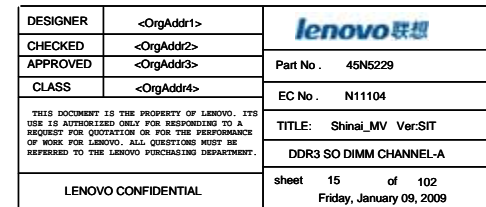
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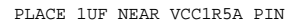
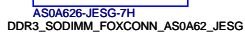
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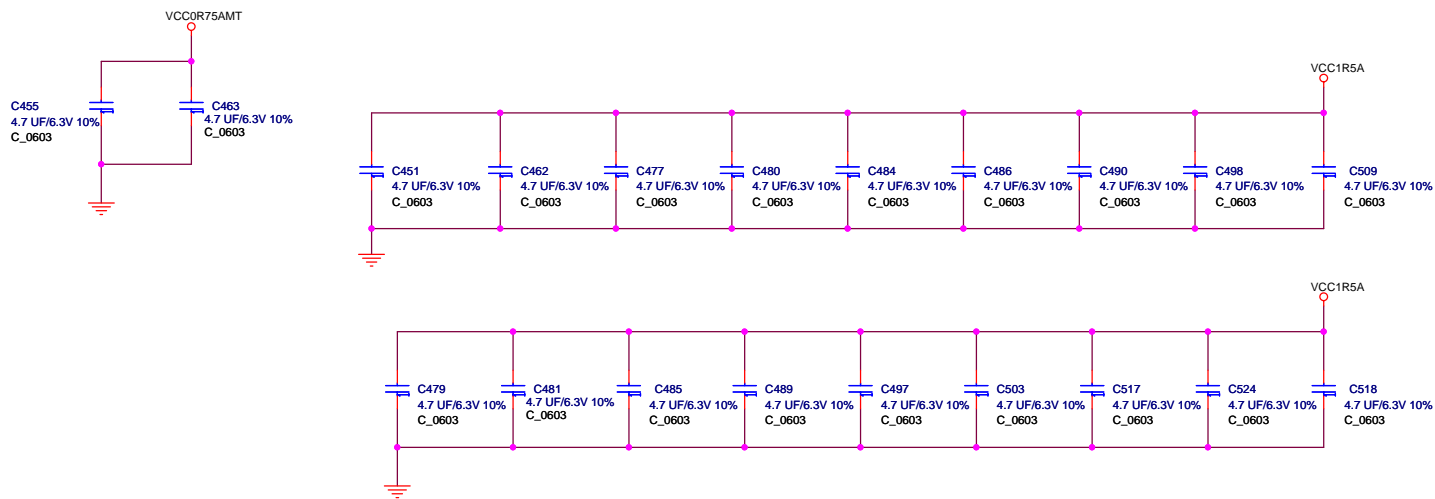
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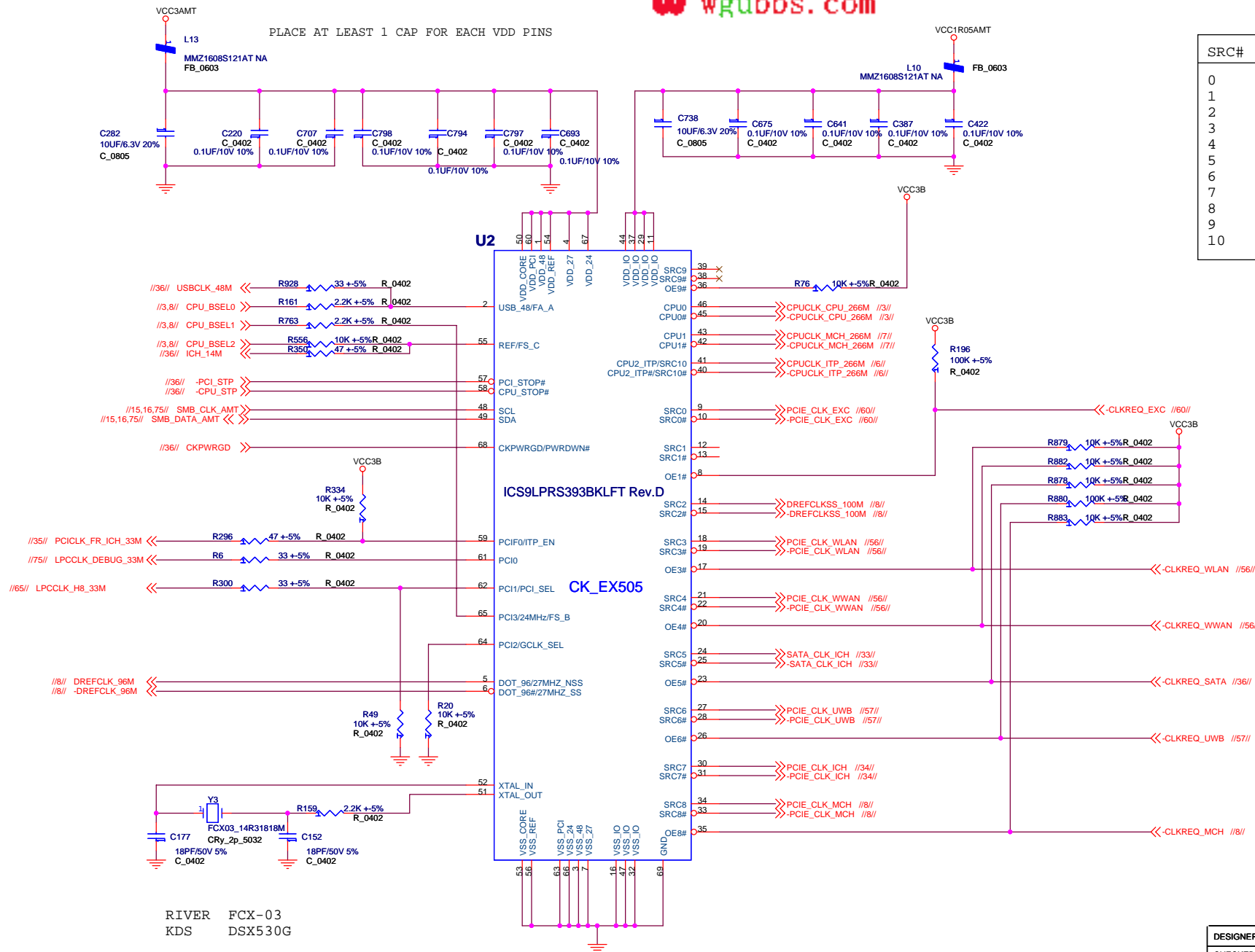




lenovo 联想




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		DDR3 DECOUPLING
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SRC#	OE#	DEVICE
0		
1		
2		INT GFX
3	OE#3	WLAN
4	OE#4	WWAN
5	OE#5	SATA
6	OE#6	WUSB
7		ICH
8	OE#8	MCH
9	OE#9	RESERVED
10		ITP


FSC BSEL2	FSB BSEL1	FSA BSEL0	CPU
0	1	1	166M
0	1	0	200M
0	0	0	266M
1	0	0	333M

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<p>LENOVO CONFIDENTIAL</p>		<p>TITLE: ShinaJ_MV Ver:SIT</p> <p>CLOCK GEN</p> <p>sheet 18 of 102</p> <p>Friday, January 09, 2009</p>


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		sheet 19 of 102 Friday, January 09, 2009
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LENOVO CONFIDENTIAL		sheet 25 of 102 Friday, January 09, 2009


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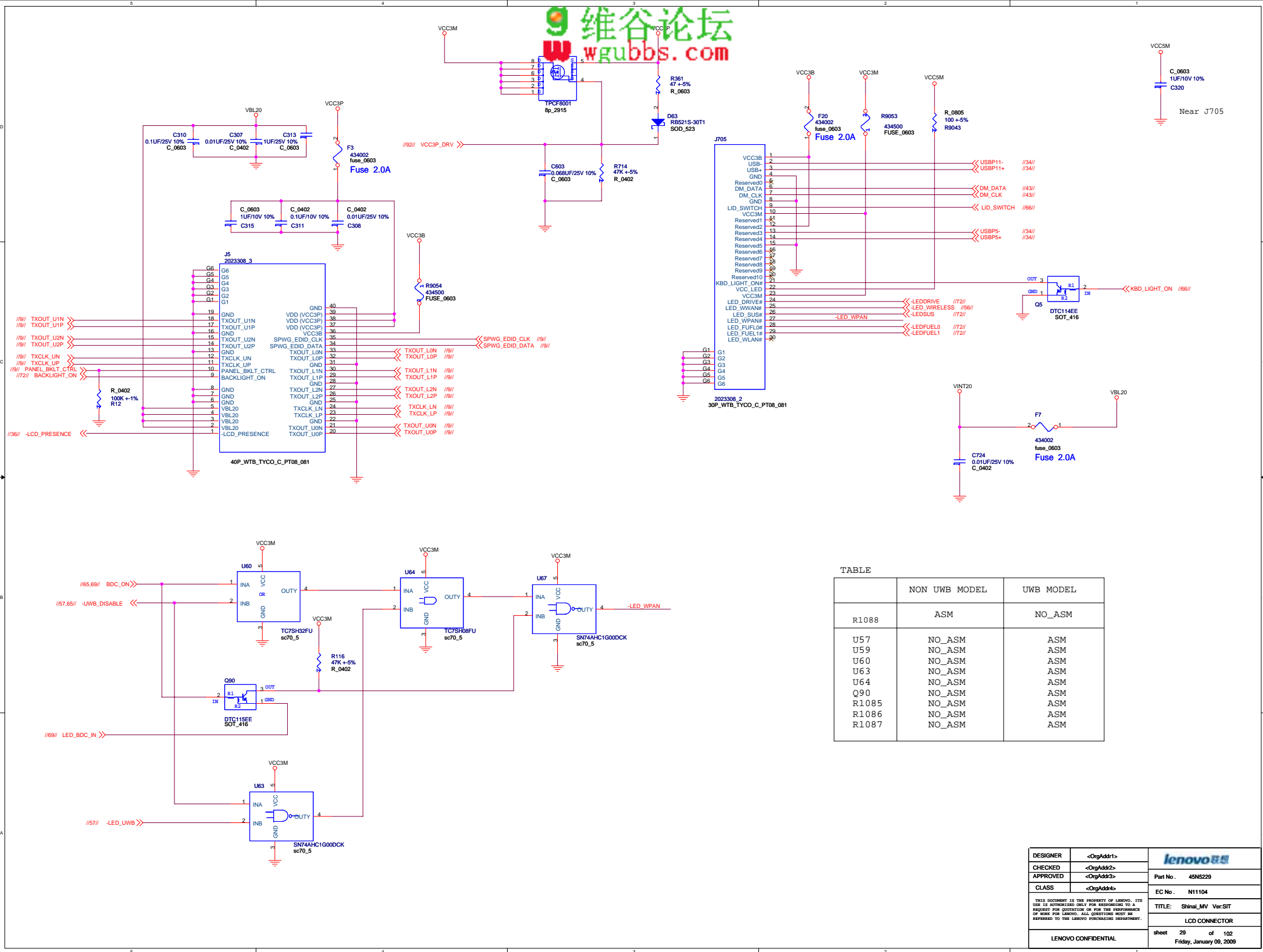
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LENOVO CONFIDENTIAL		sheet 26 of 102 Friday, January 09, 2009

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LENOVO CONFIDENTIAL		sheet 27 of 102 Friday, January 09, 2009


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LENOVO CONFIDENTIAL		sheet 28 of 102 Friday, January 09, 2009

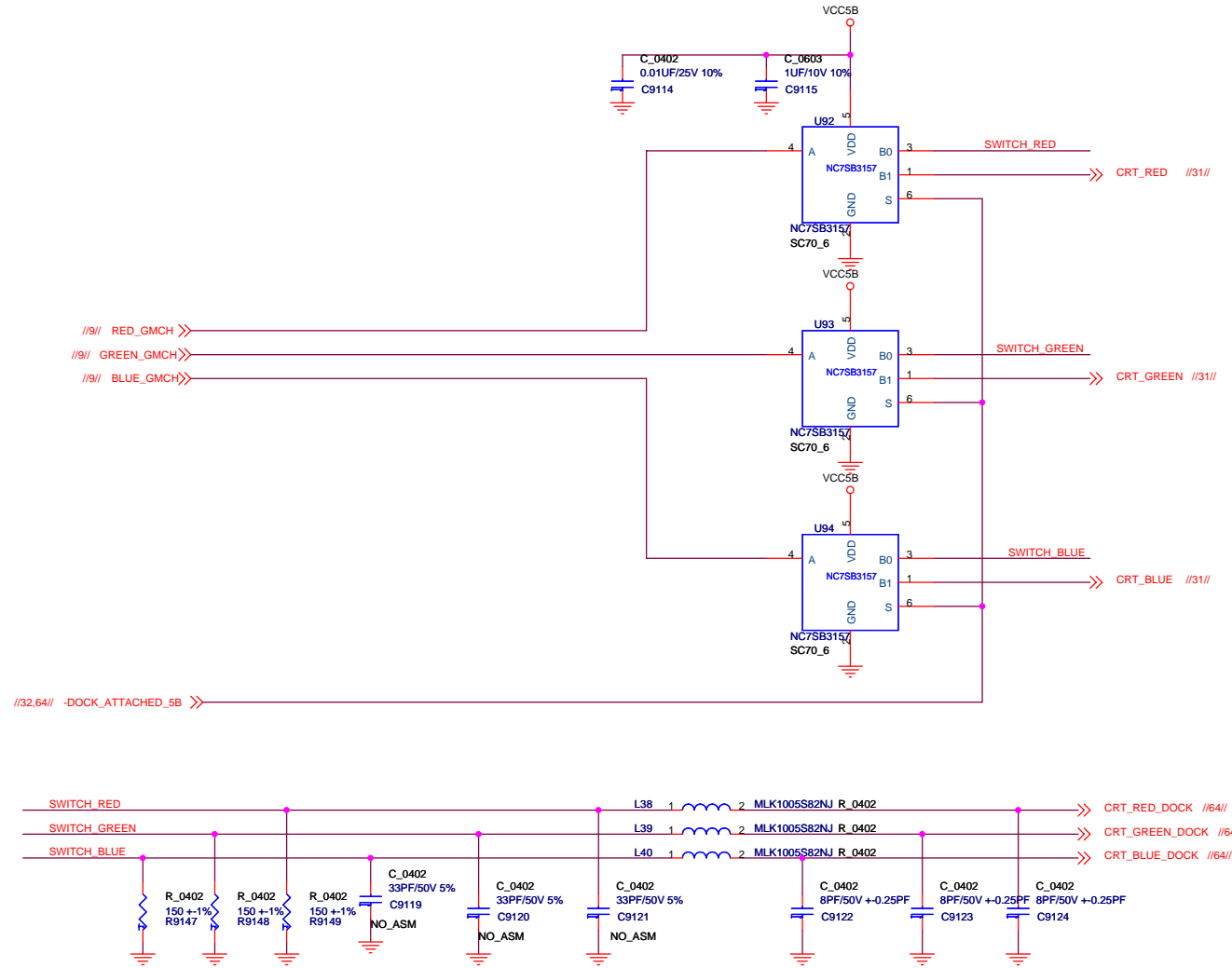


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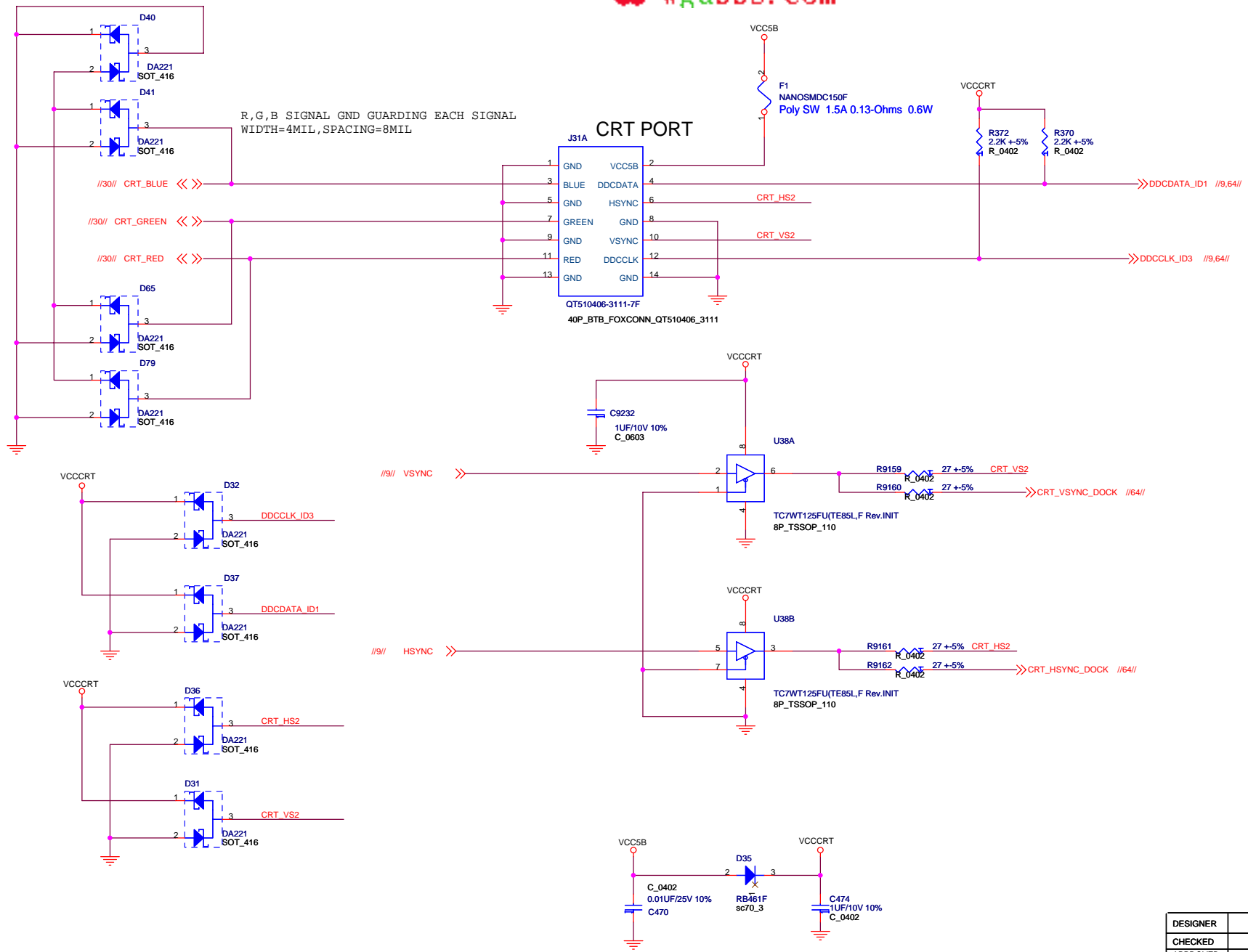
	NON UWB MODEL	UWB MODEL
R1088	ASM	NO_ASM
U57	NO_ASM	ASM
U59	NO_ASM	ASM
U60	NO_ASM	ASM
U63	NO_ASM	ASM
U64	NO_ASM	ASM
Q90	NO_ASM	ASM
R1085	NO_ASM	ASM
R1086	NO_ASM	ASM
R1087	NO_ASM	ASM

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LENOVO CONFIDENTIAL		sheet 29 of 102 Friday, January 09, 2009



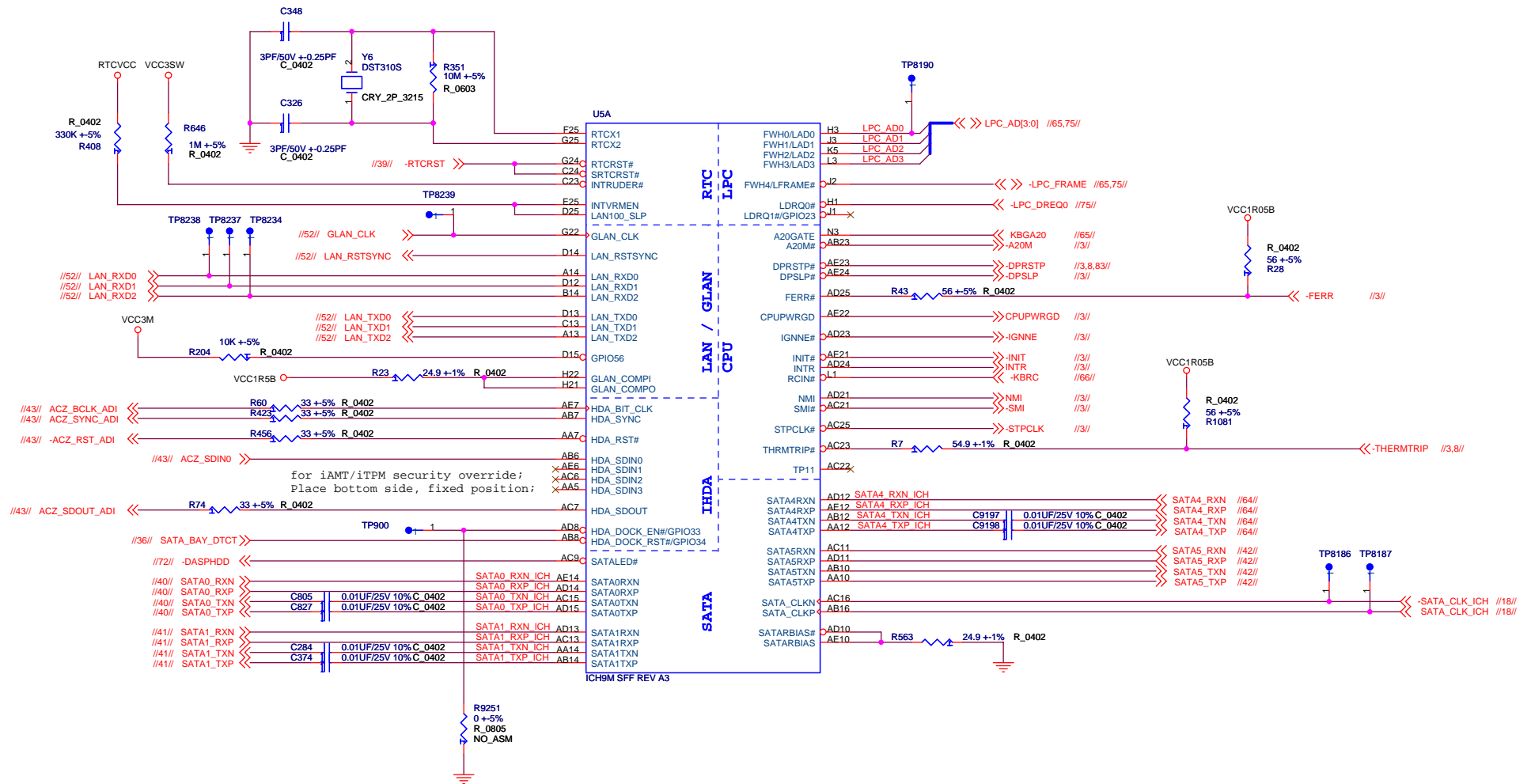



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		RGB SWITCH
LENOVO CONFIDENTIAL		sheet 30 of 102 Friday, January 09, 2009

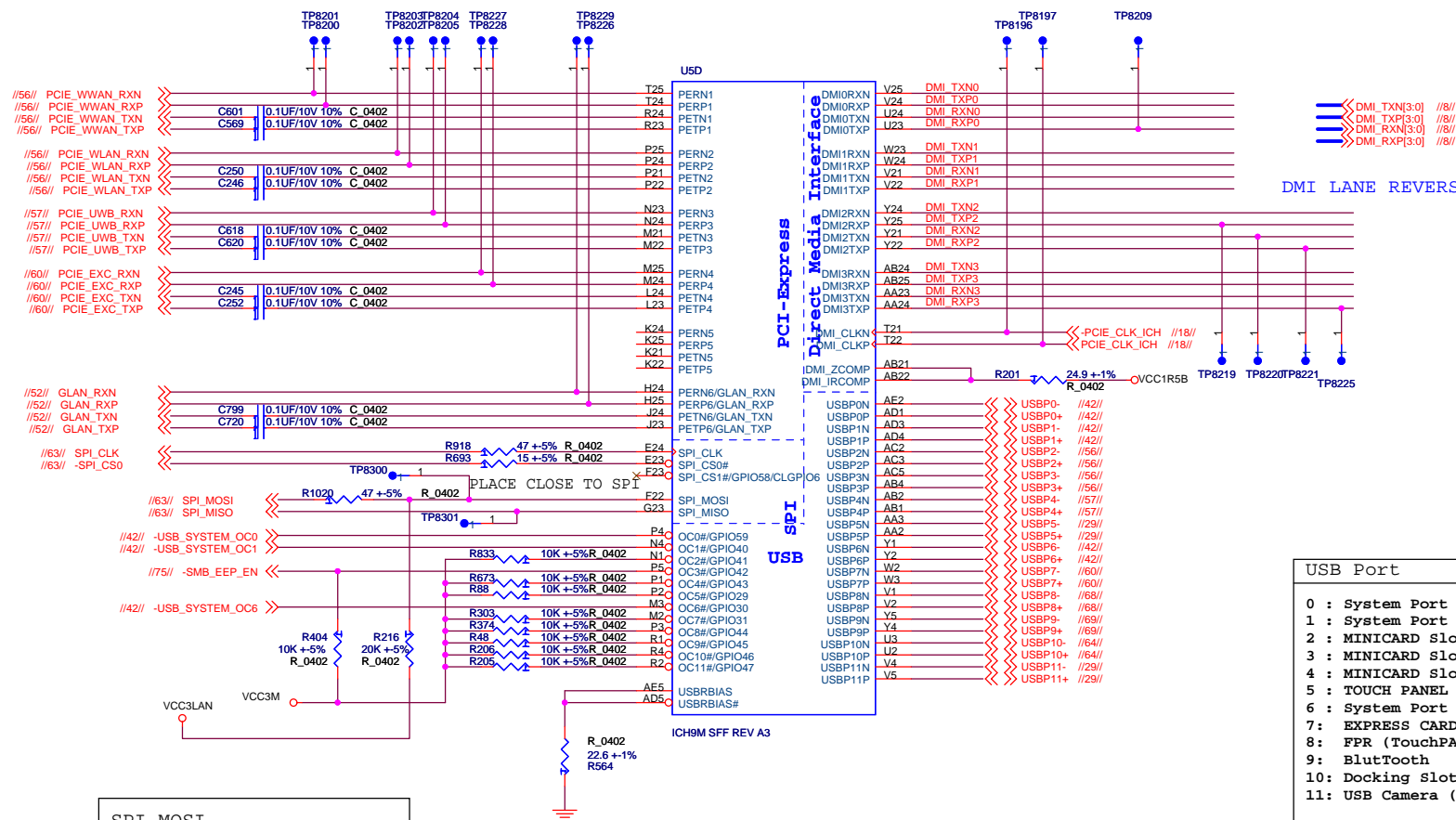


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LENOVO CONFIDENTIAL		EXT CRT INTERFACE
		sheet 31 of 102 Friday, January 09, 2009





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LENOVO CONFIDENTIAL		<p>sheet 33 of 102</p> <p>Friday, August 9, 2009</p>




DMI LANE REVERSAL IS NOT APPLIED

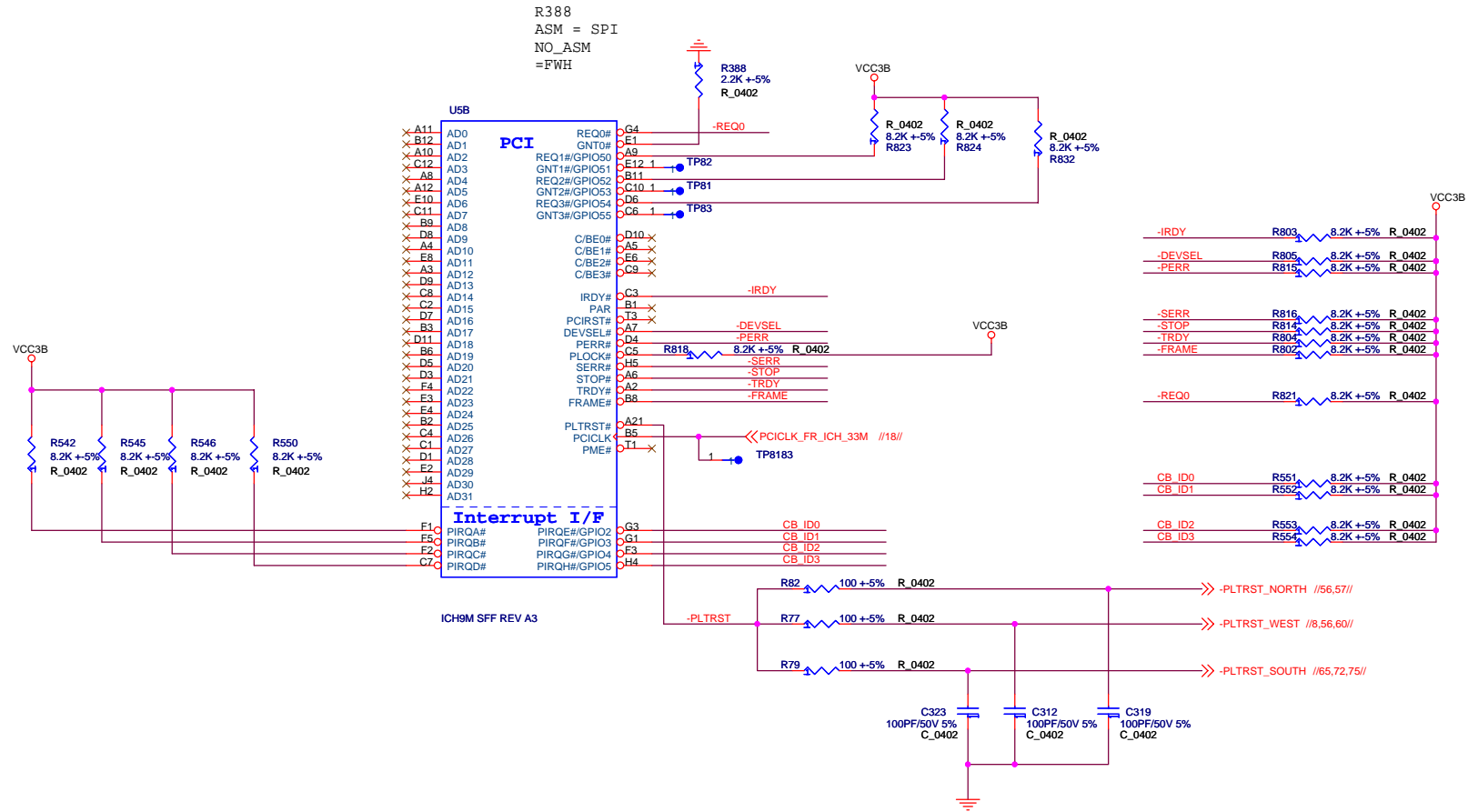
USB Port

- ```

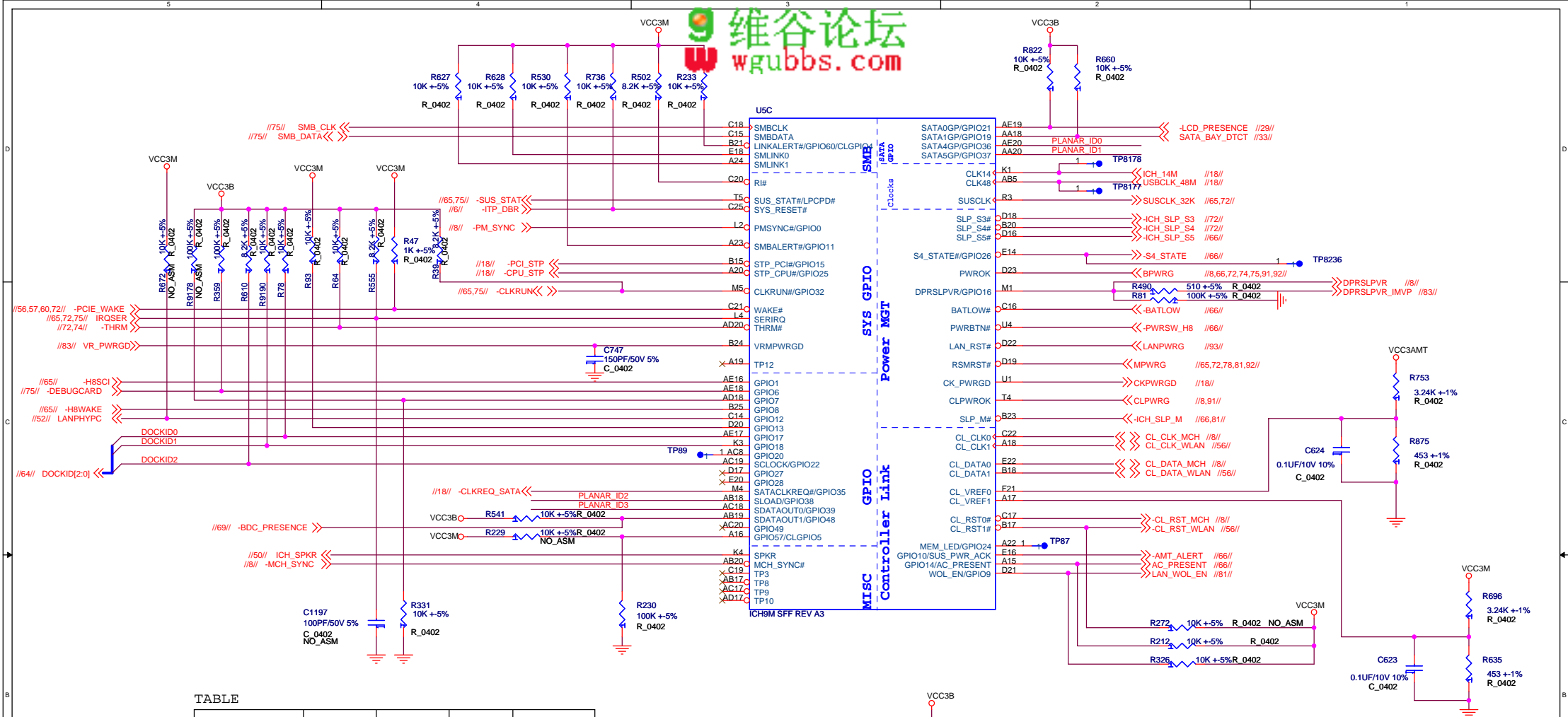
0 : System Port 1
1 : System Port 2
2 : MINICARD Slot (WLAN)
3 : MINICARD Slot (WWAN)
4 : MINICARD Slot (UWB)
5 : TOUCH PANEL
6 : System Port 3
7 : EXPRESS CARD
8 : FPR (TouchPAD CONN)
9 : Bluetooth
10: Docking Slot
11: USB Camera (LCD CONN)

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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                |            | sheet 34 of 102<br>Friday, January 09, 2009                                                                |



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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | ICH9-M(3/6) : PCI/INTERRUPT                 |
|                                                                                                                                                                                                                              |            | sheet 35 of 102<br>Friday, January 09, 2009 |

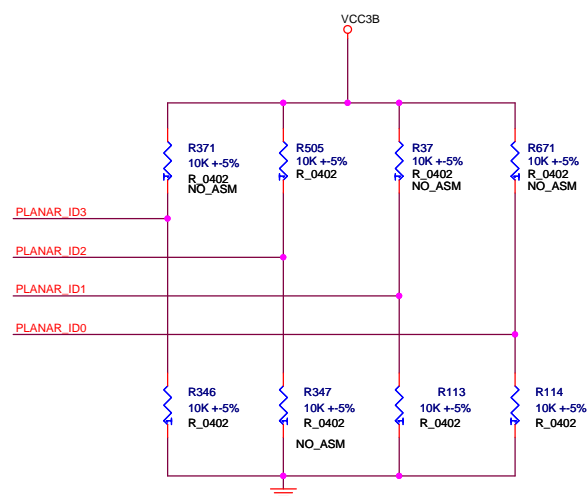



TABLE

|           |      |      |      |      |
|-----------|------|------|------|------|
| PLANAR_ID | 3    | 2    | 1    | 0    |
| PULL-UP   | R371 | R505 | R37  | R671 |
| PULL-DOWN | R346 | R347 | R113 | R114 |

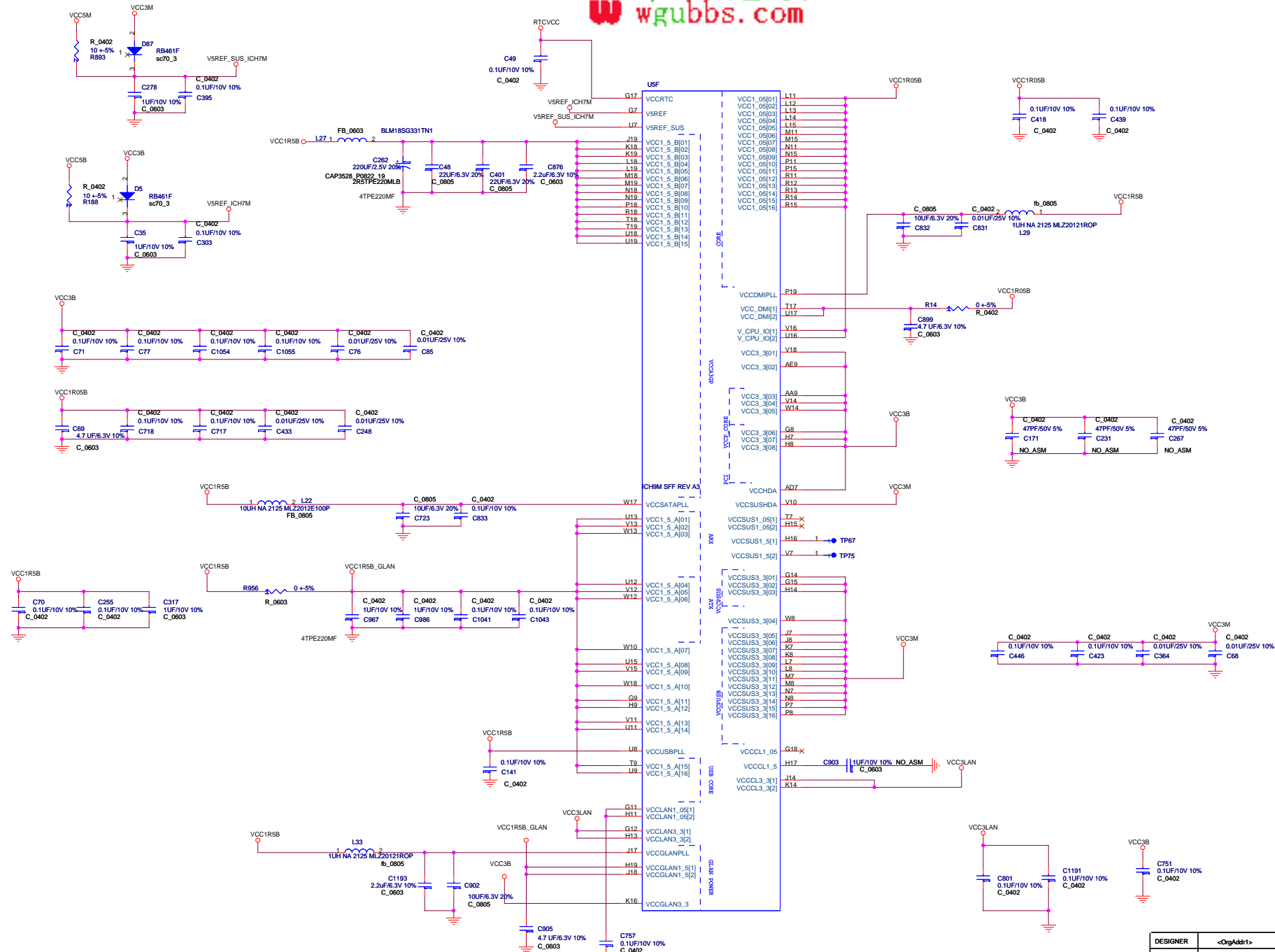
TABLE


| LEVEL    | PLANARID[3...0] |
|----------|-----------------|
| PreDV    | 0000B           |
| MechSIV  | 0001B           |
| SIV(DV2) | 0010B           |
| MechSIT  | 0011B           |
| SIT      | 0100B           |

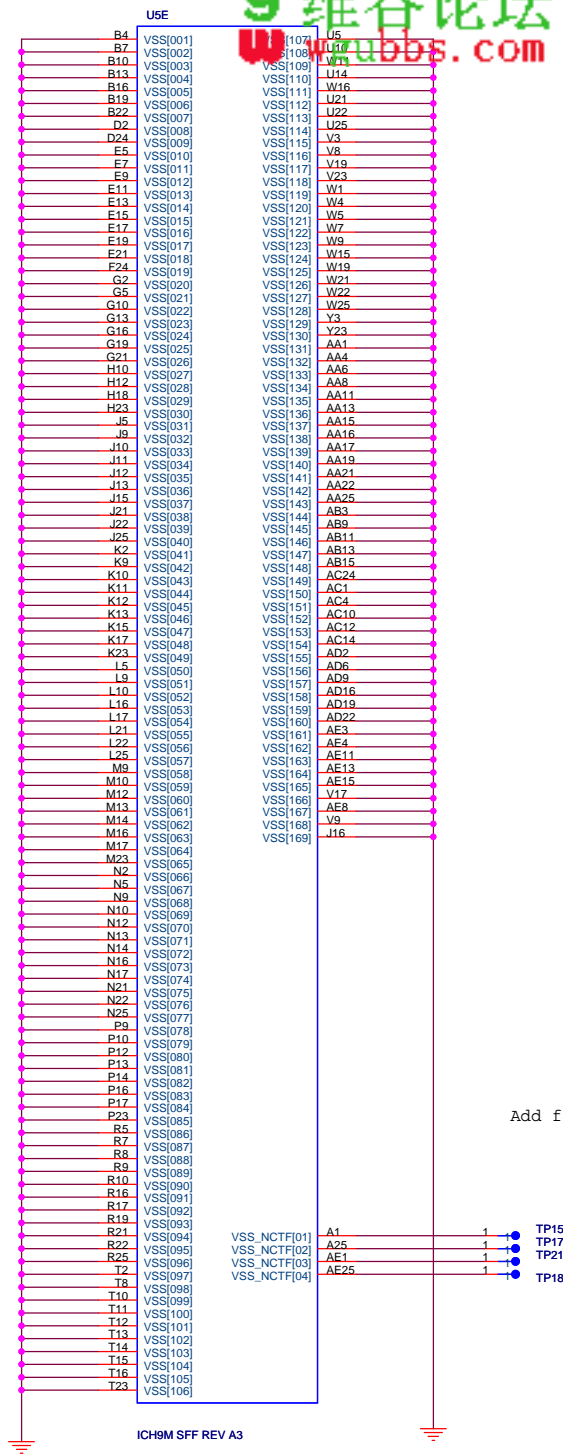


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |            |                                                                                                                                         |




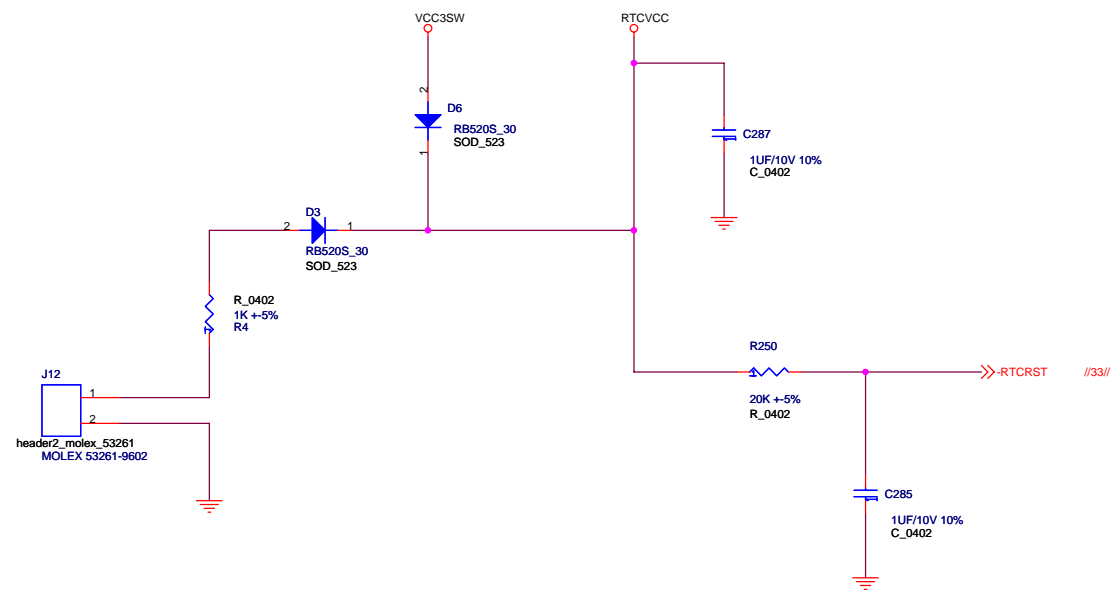


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                             |           |                                                                                                                                                    |

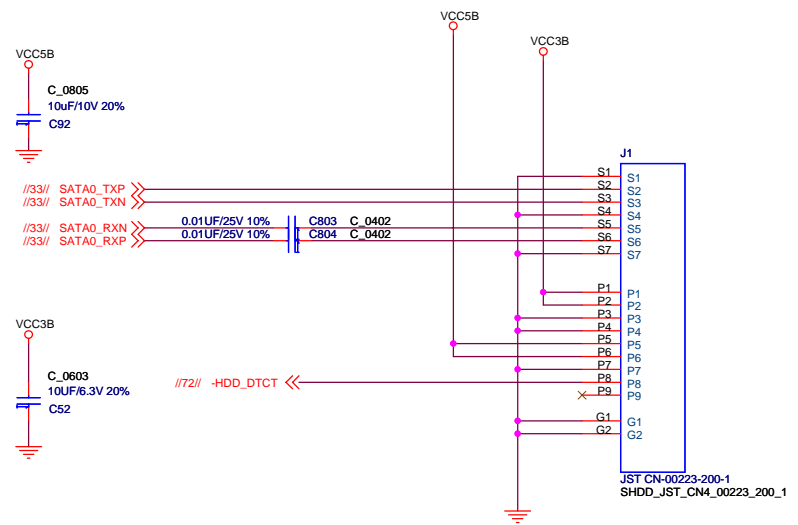


Add four corner test point for solder check

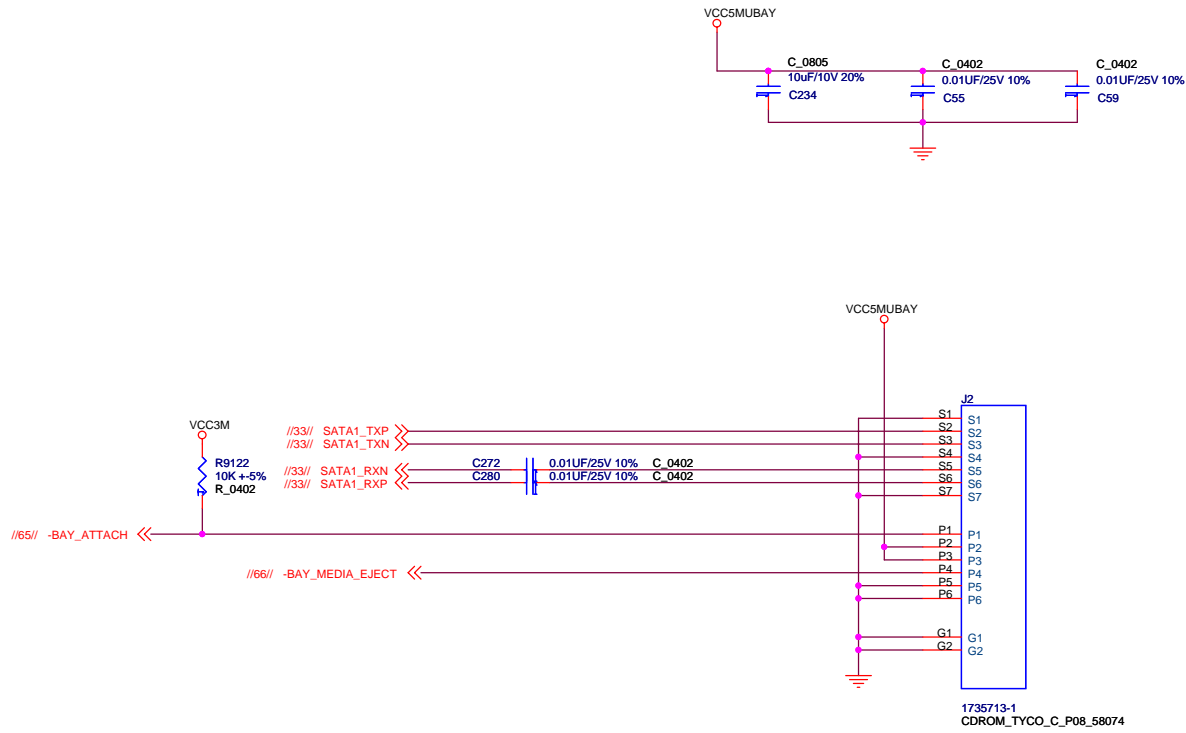
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|                                                                                                                                                                                                                              |            | ICH9-M(6/6) : GND                                                                     |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 38 of 102<br>Friday, January 09, 2009                                           |



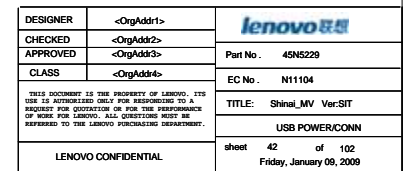
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|                                                                                                                                                                                                                              |            | RTC BATTERY                                 |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 39 of 102<br>Friday, January 09, 2009 |

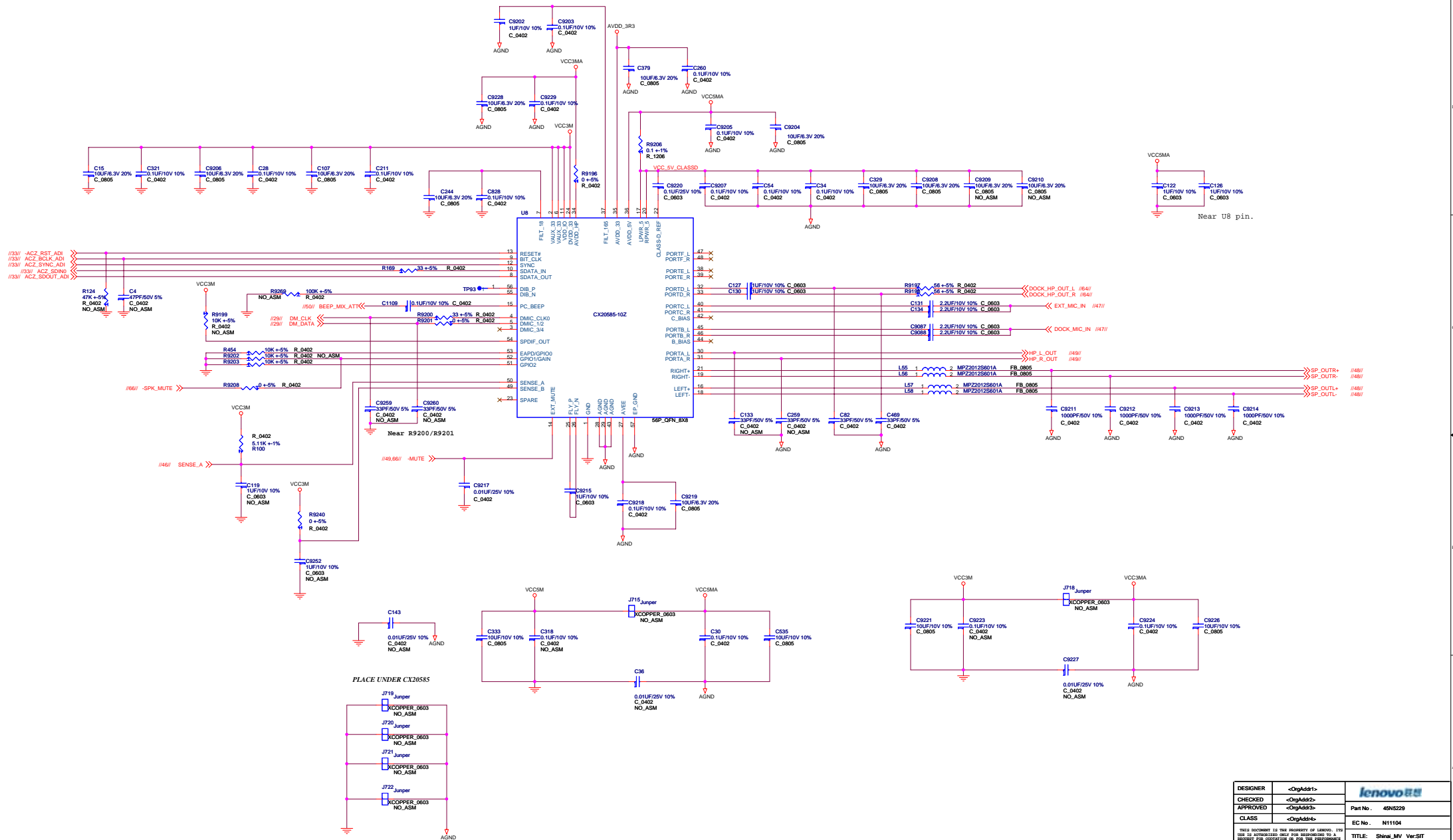


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|                                                                                                                                                                                                                              |            | SATA HDD CONN                               |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 40 of 102<br>Friday, January 09, 2009 |




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|                                                                                                                                                                                                                              |            | SATA BAY I/F CONN                           |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 41 of 102<br>Friday, January 09, 2009 |



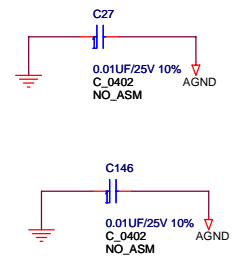



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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                                                                                                                                                                                         |             | AUDIO CX20585                               |
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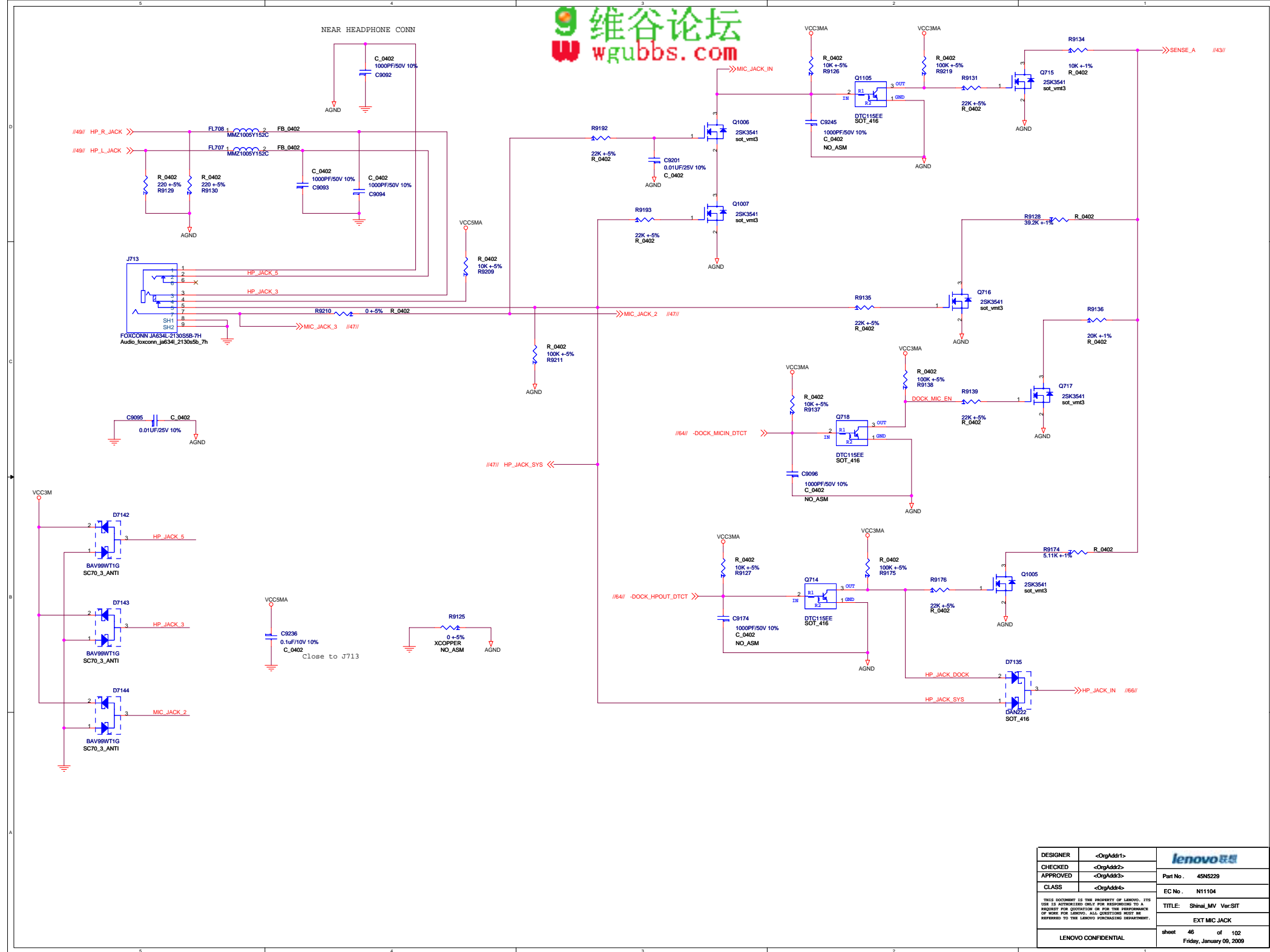
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |           | sheet 44 of 102<br>Friday, January 09, 2009                                           |

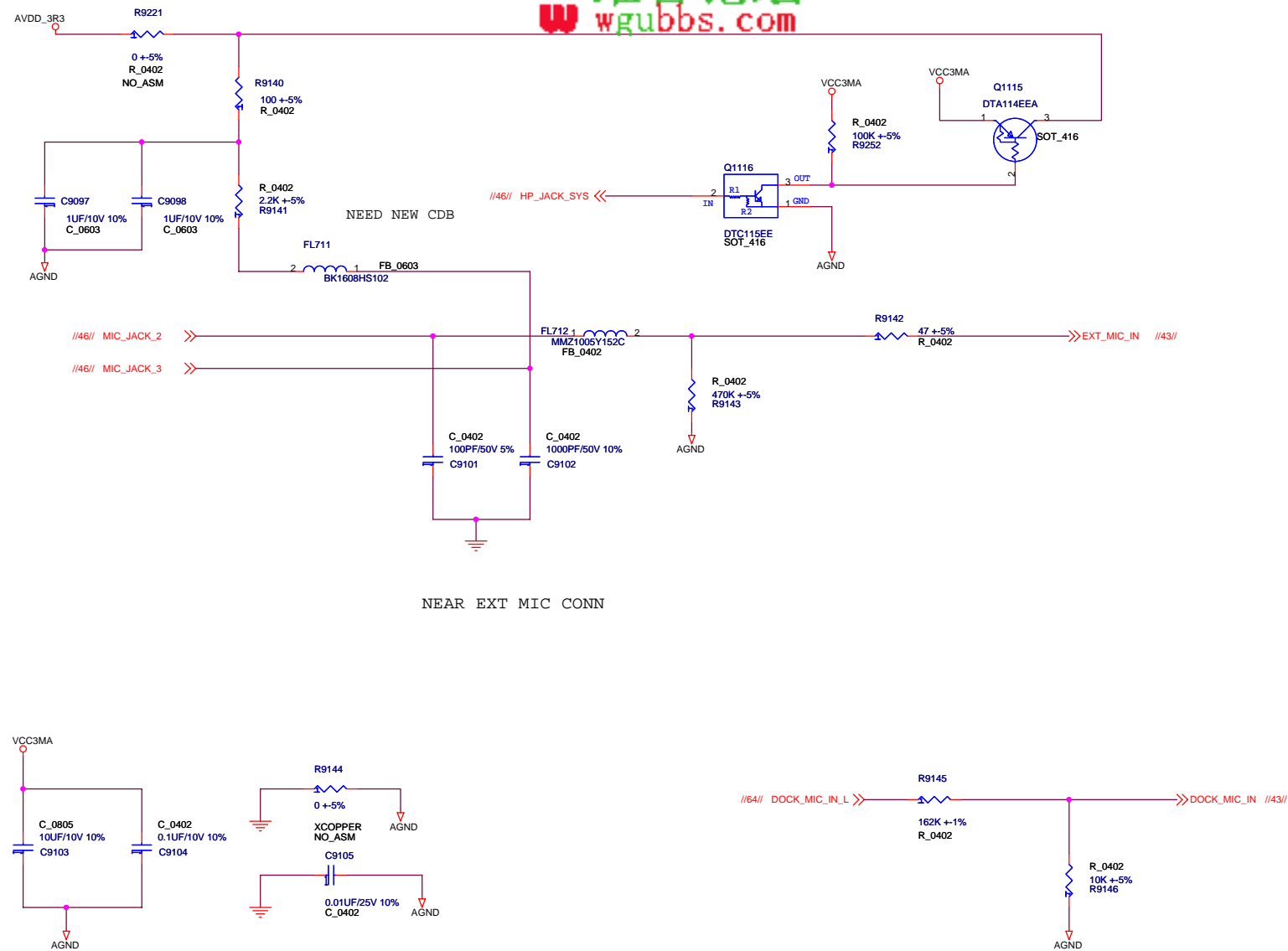





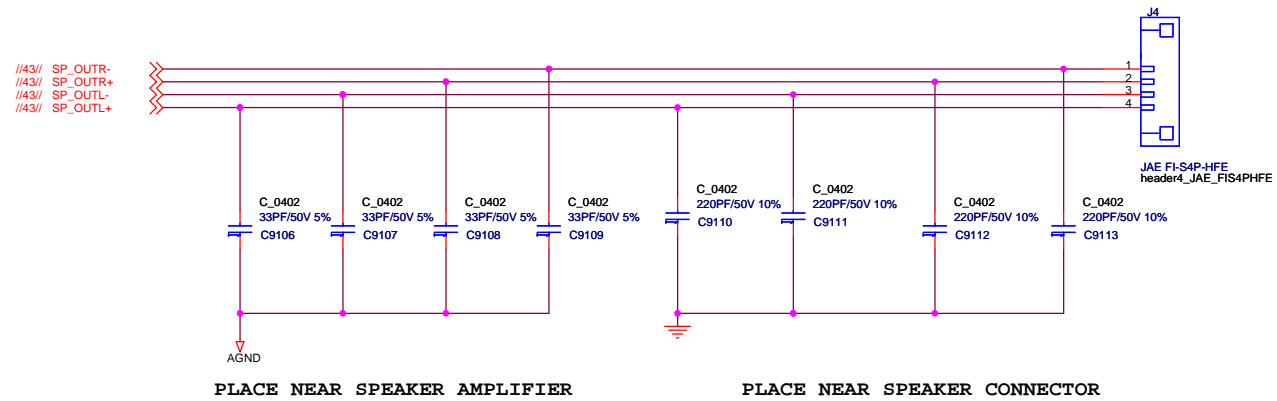
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 45 of 102<br>Friday, January 09, 2009                                           |



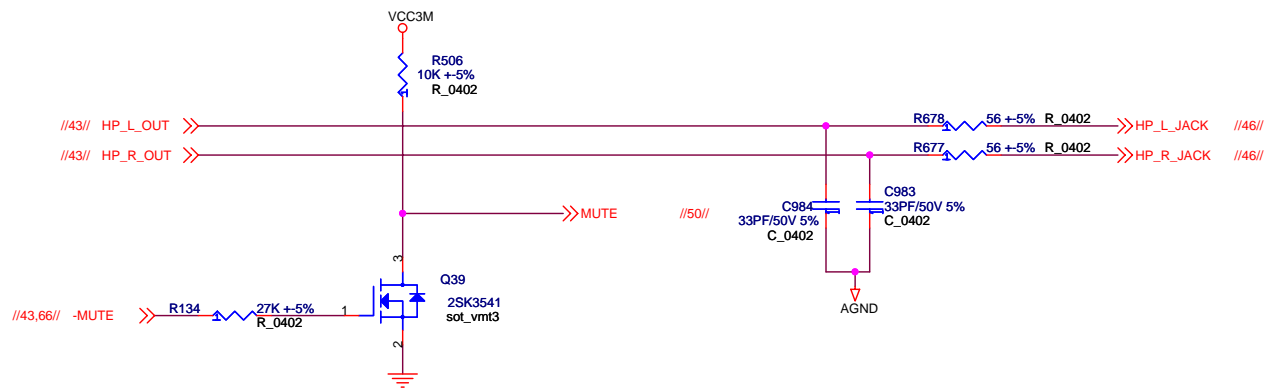
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                  |            |                                                                                                                                               |



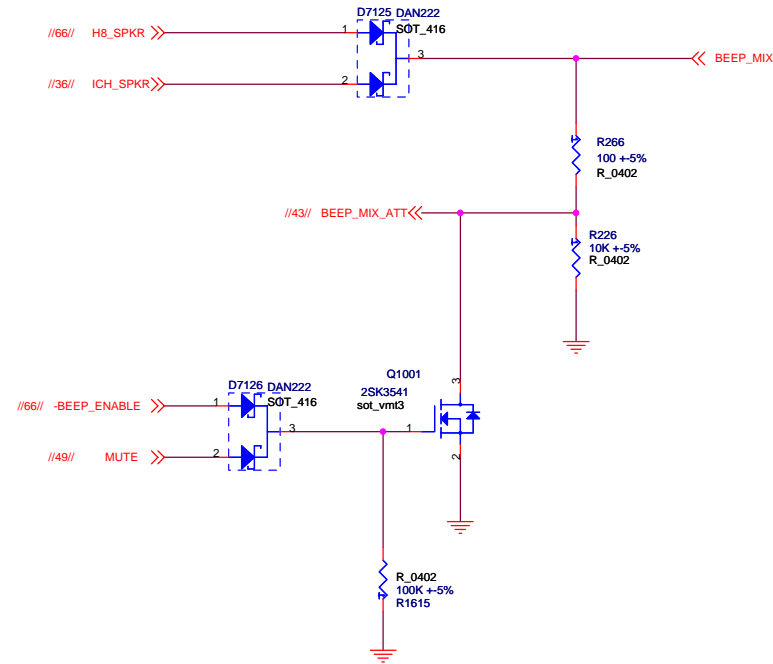
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | TITLE: ShinaJ_MV Ver:SIT                                                              |                  |
|                                                                                                                                                                                                                              |            | AUDIO EXT MIC AMP                                                                     |                  |
|                                                                                                                                                                                                                              |            | sheet 47 of 102<br>Friday, January 09, 2009                                           |                  |



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|                                                                                                                                                                                                                              |            | TITLE: Shinai_MV Ver:SIT                    |
|                                                                                                                                                                                                                              |            | AUDIO SPEAKER                               |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 48 of 102<br>Friday, January 09, 2009 |




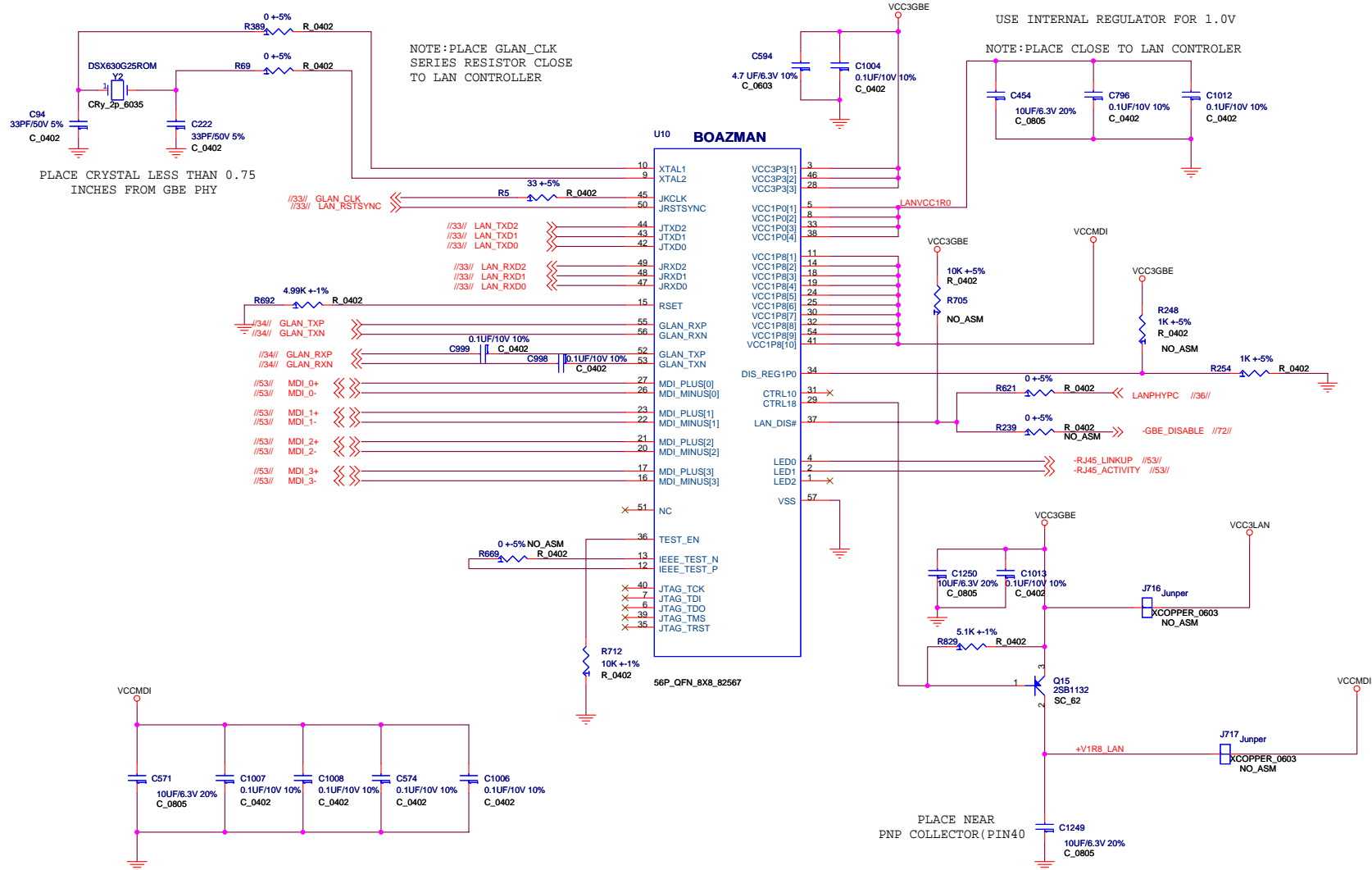
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|                                                                                                                                                                                                                              |            | AUDIO HDP AMP                               |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 49 of 102<br>Friday, January 09, 2009 |



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|                                                                                                                                                                                                                                 |            | AUDIO HDP BEEP                              |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                             |            | sheet 50 of 102<br>Friday, January 09, 2009 |

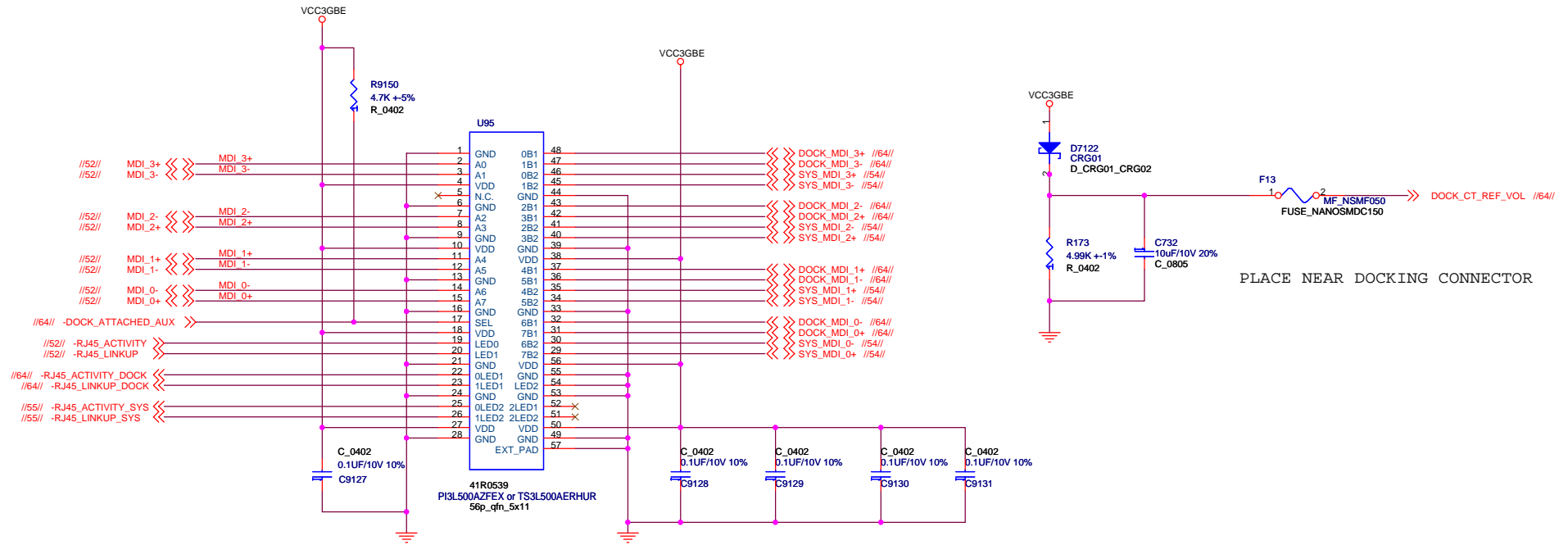
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 51 of 102<br>Friday, January 09, 2009                                           |



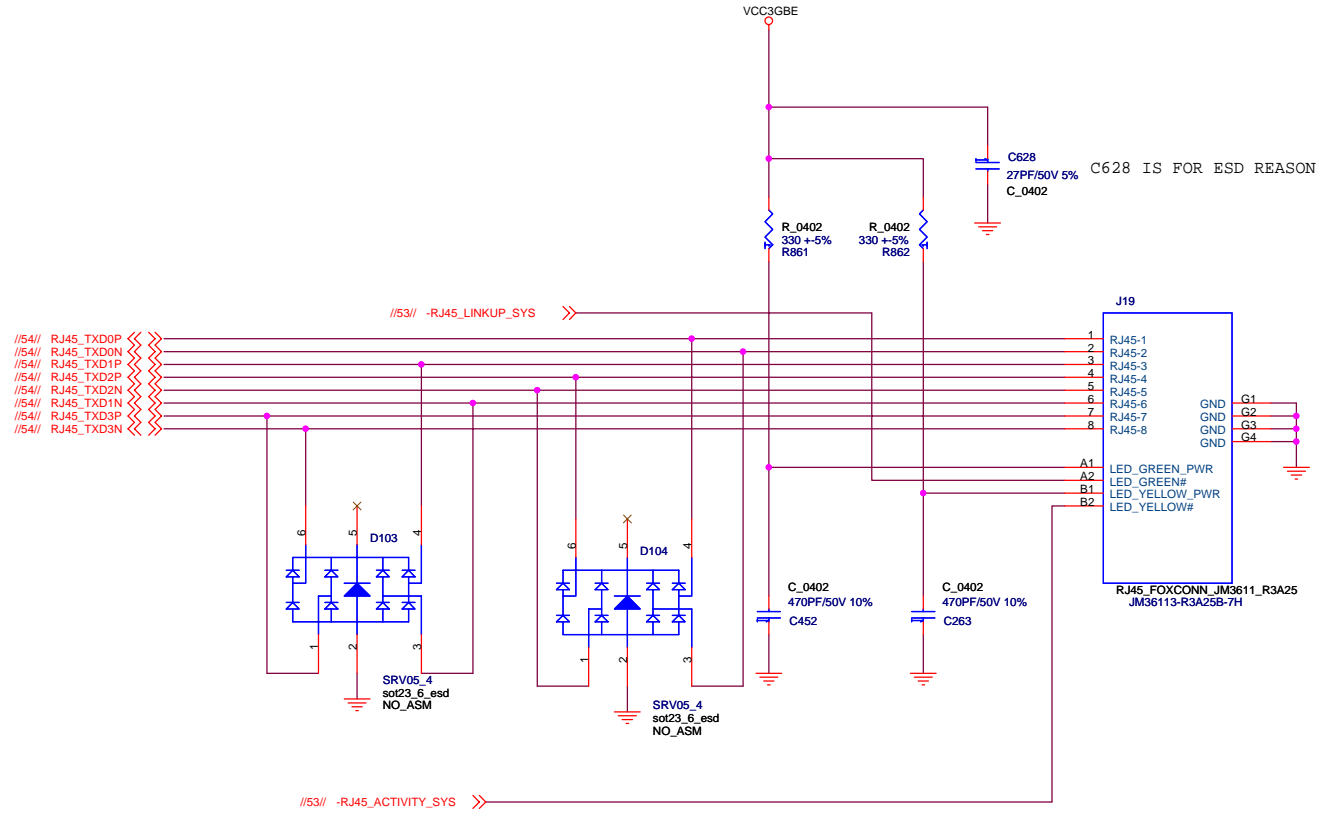
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 52 of 102<br>Friday, January 09, 2009 |



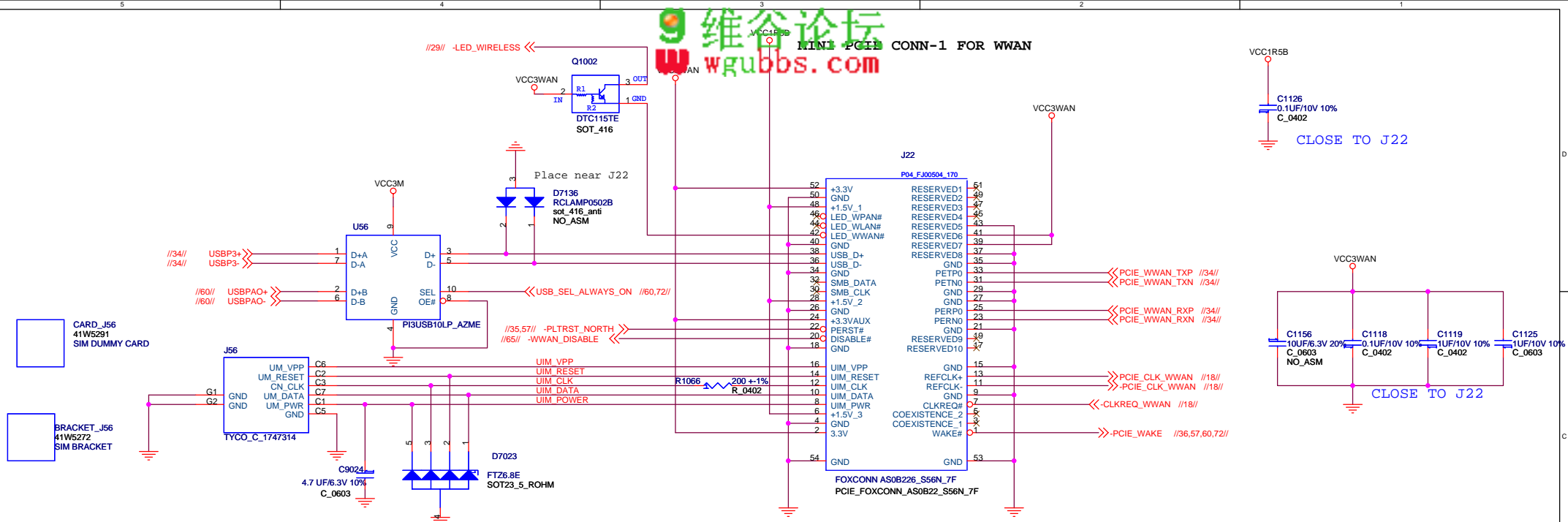


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 53 of 102<br>Friday, January 09, 2009 |



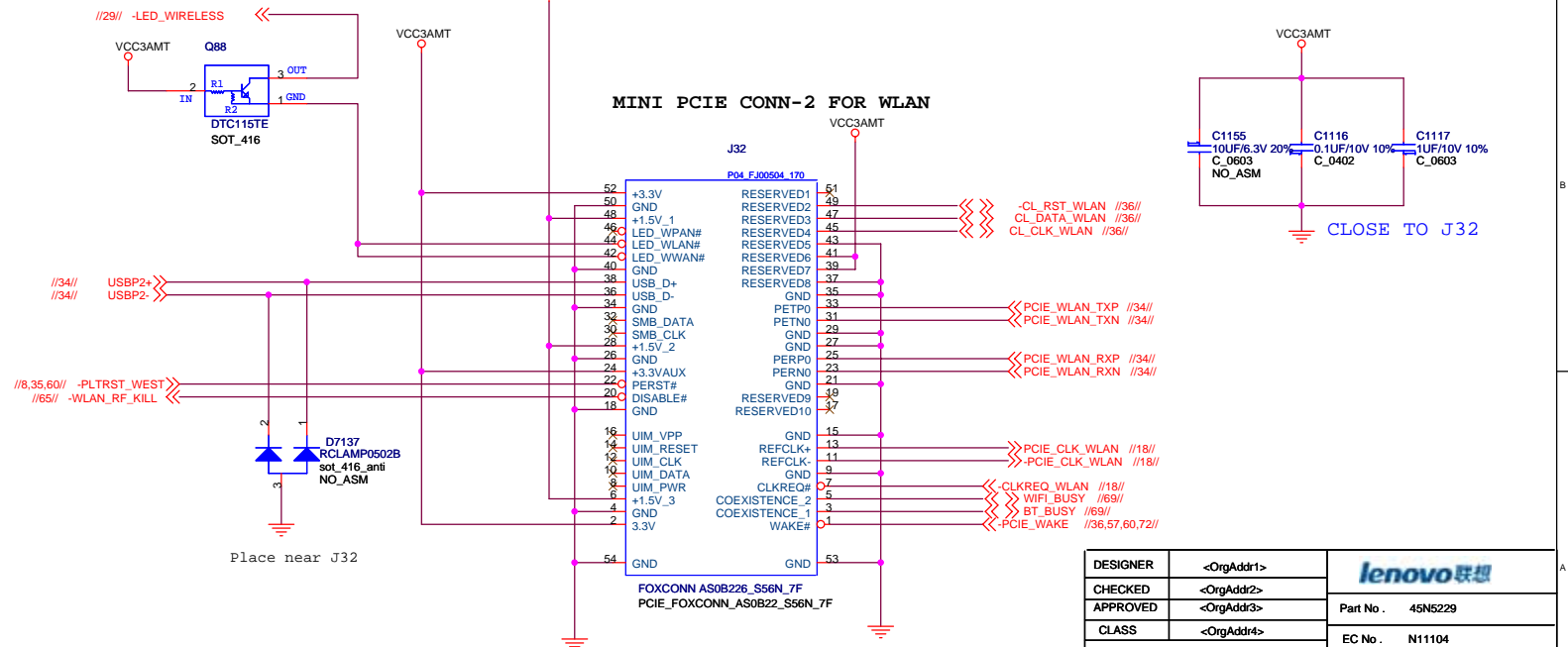


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|                                                                                                                                                                                                                              |            | RJ45 CONN                                   |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 55 of 102<br>Friday, January 09, 2009 |

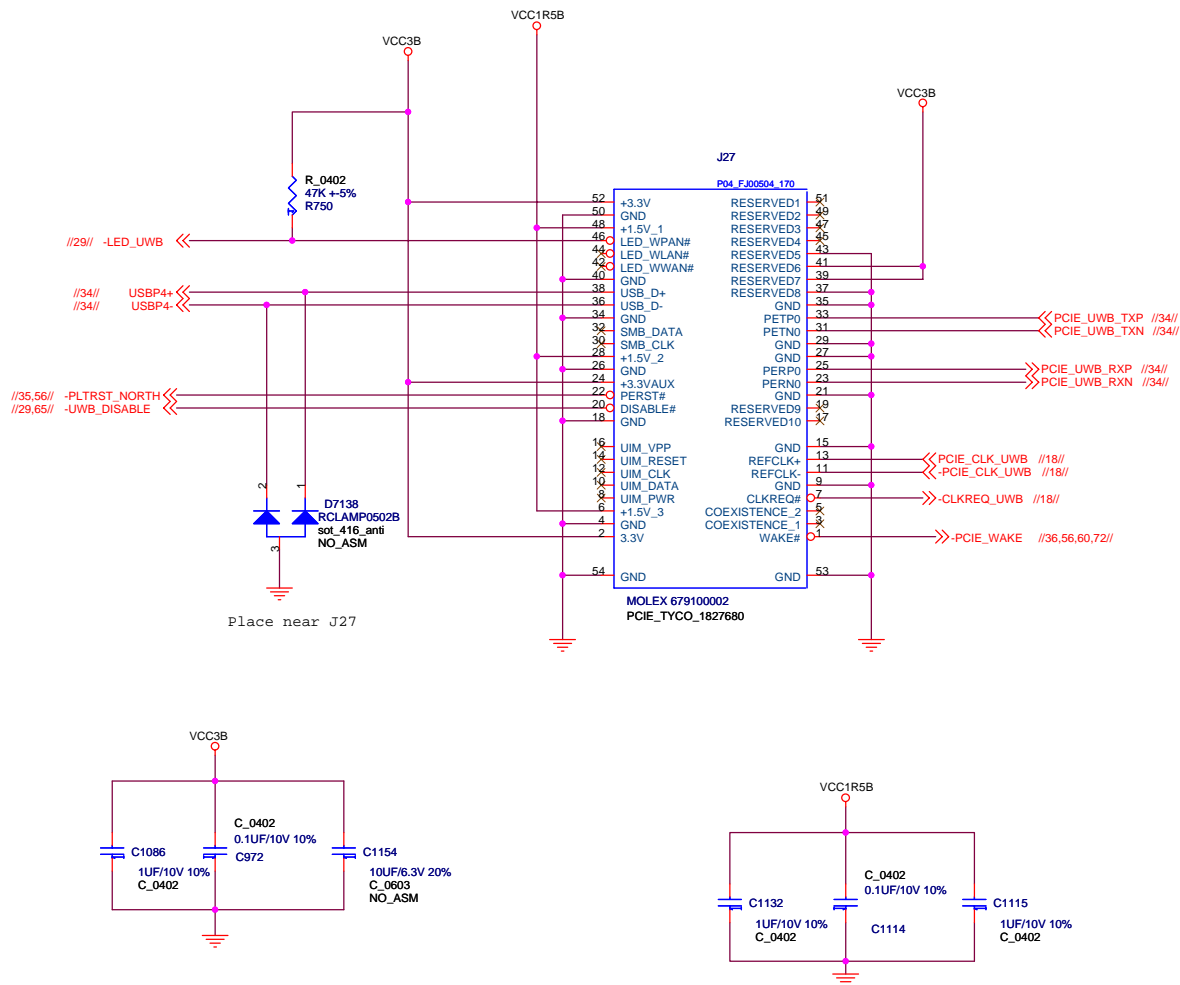


NOTE: UIM\_POWER NET need 30 mil width.

NOTE: Please put FTZ6.8E near SIM Connector




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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | MINI PCIE SLOT(WWAN/WLAN) |
|                                                                                                                                                                                                                              |            | sheet 56 of 102           |
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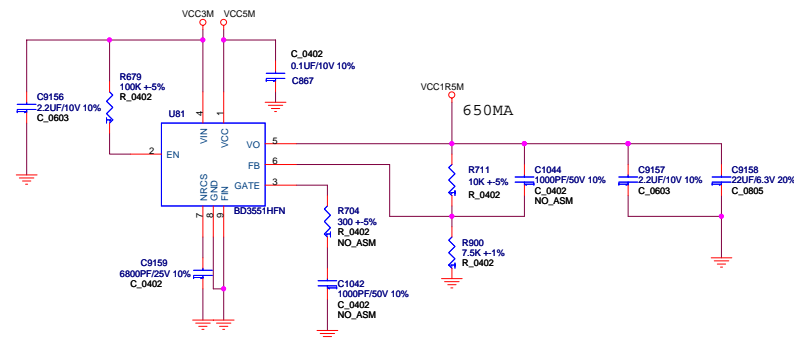
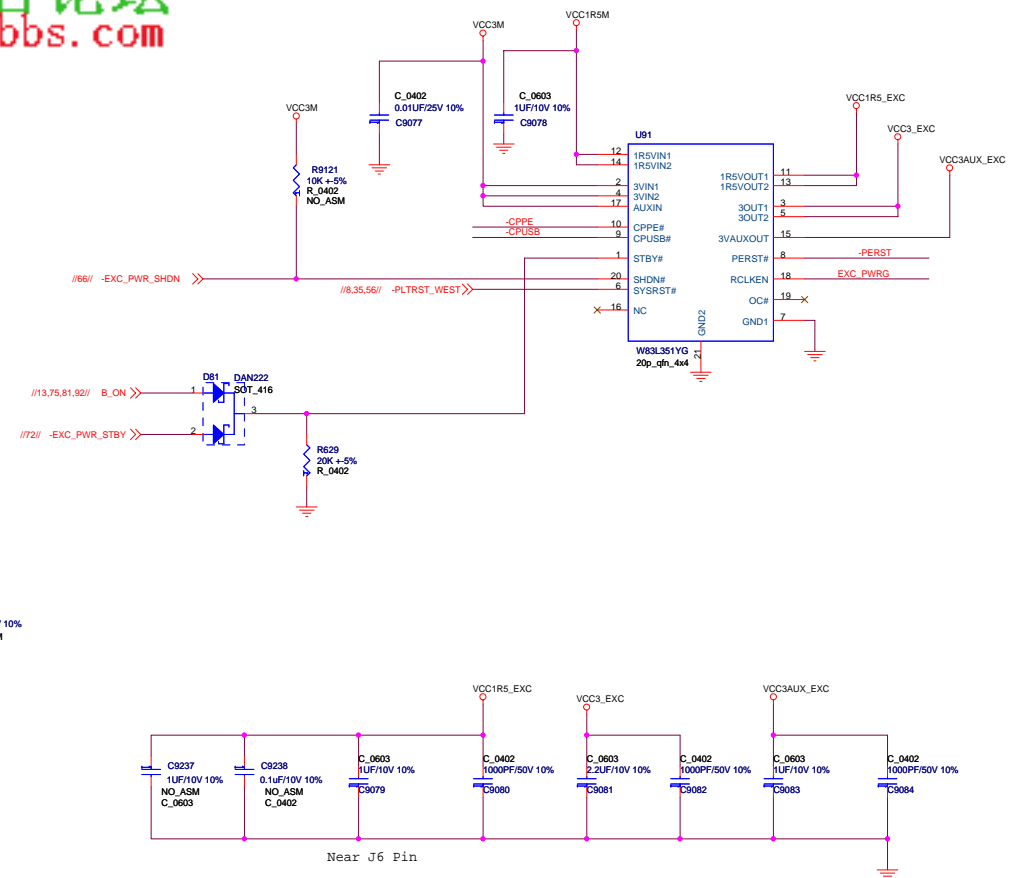
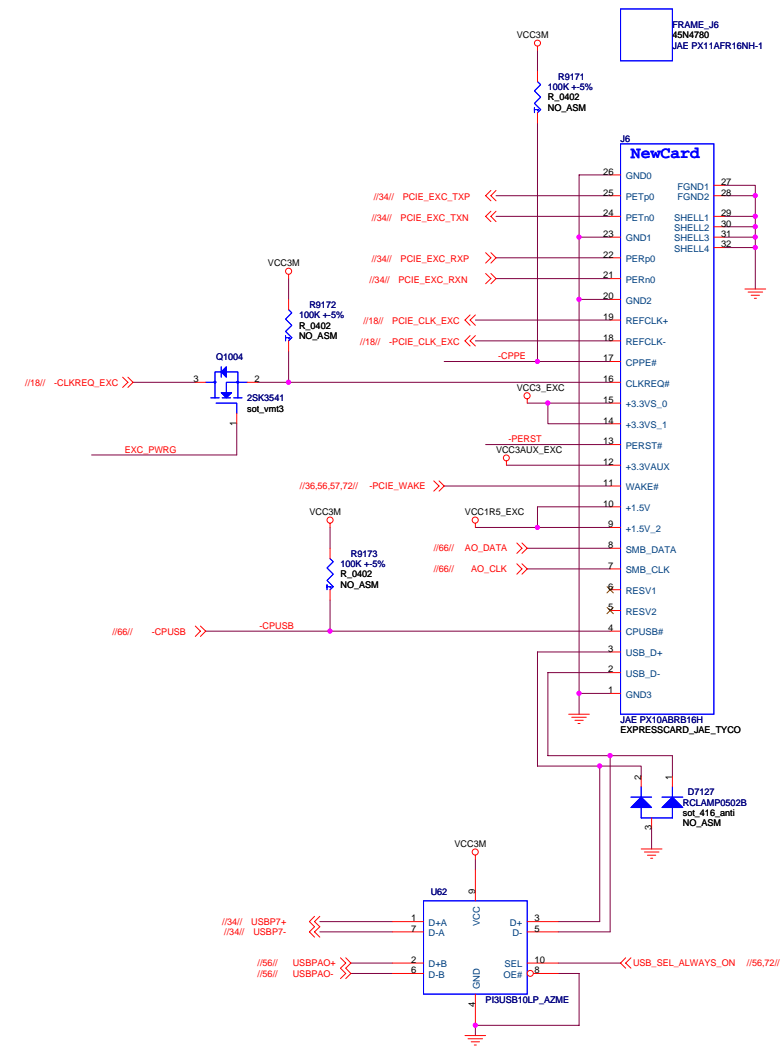
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | MICRO PCIE CONN          |
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 58 of 102<br>Friday, January 09, 2009                                           |

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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 59 of 102<br>Friday, January 09, 2009                                           |




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| <p>LENOVO CONFIDENTIAL</p>                                                                                                                                                                                                       |          | <p>TITLE: Shinal_MV Ver:51</p> <p>EXPRESS CARD</p> <p>sheet 60 of 102</p> <p>Friday, January 06, 2009</p> |

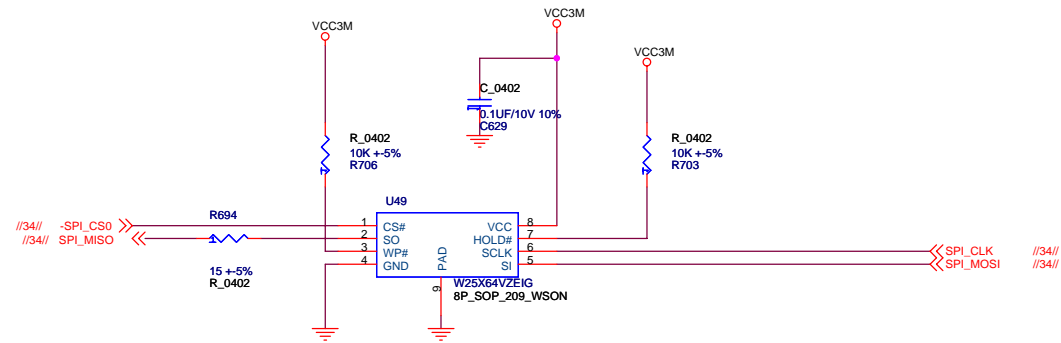


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 61 of 102<br>Friday, January 09, 2009                                           |

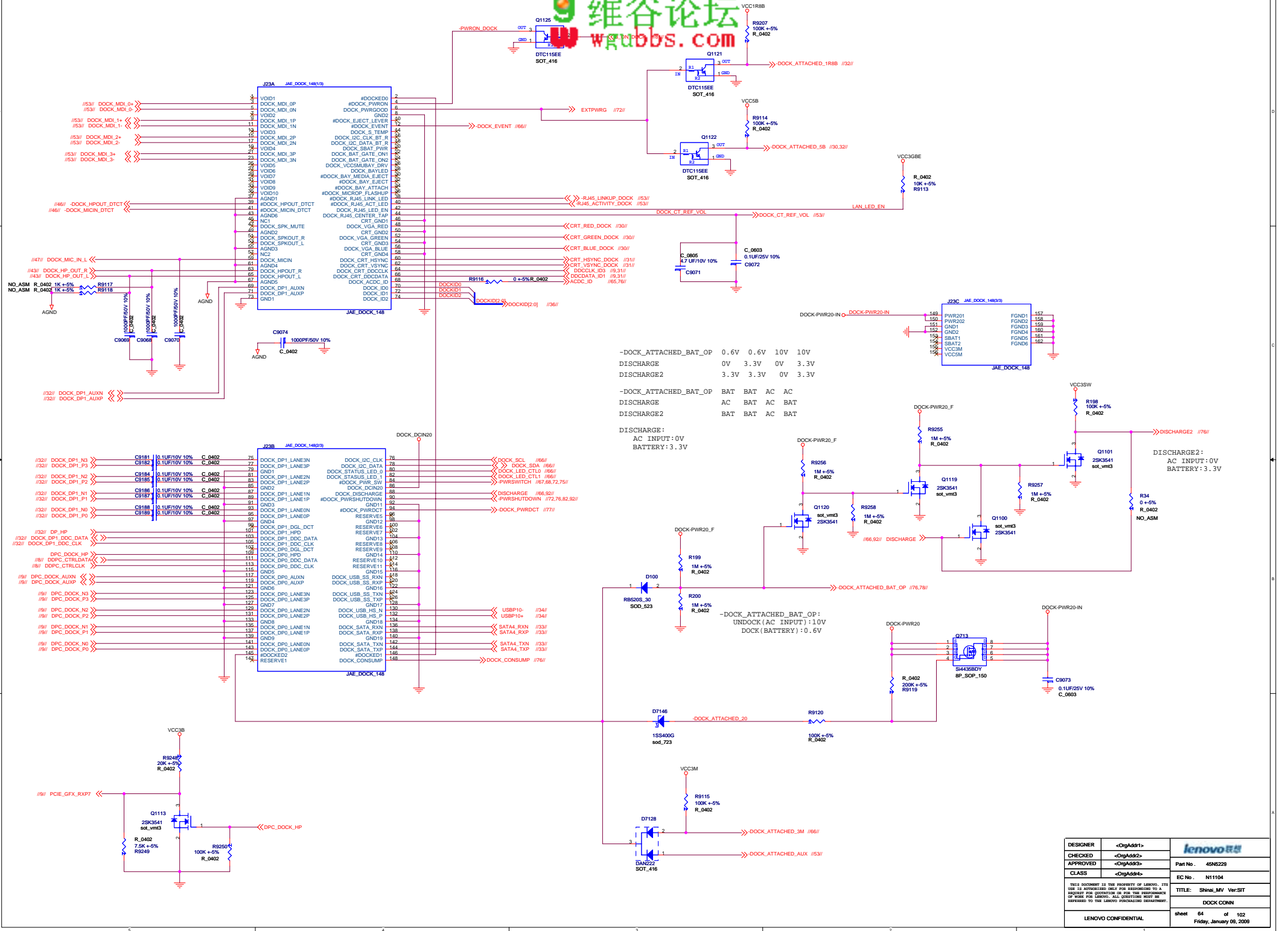
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 62 of 102<br>Friday, January 09, 2009                                           |



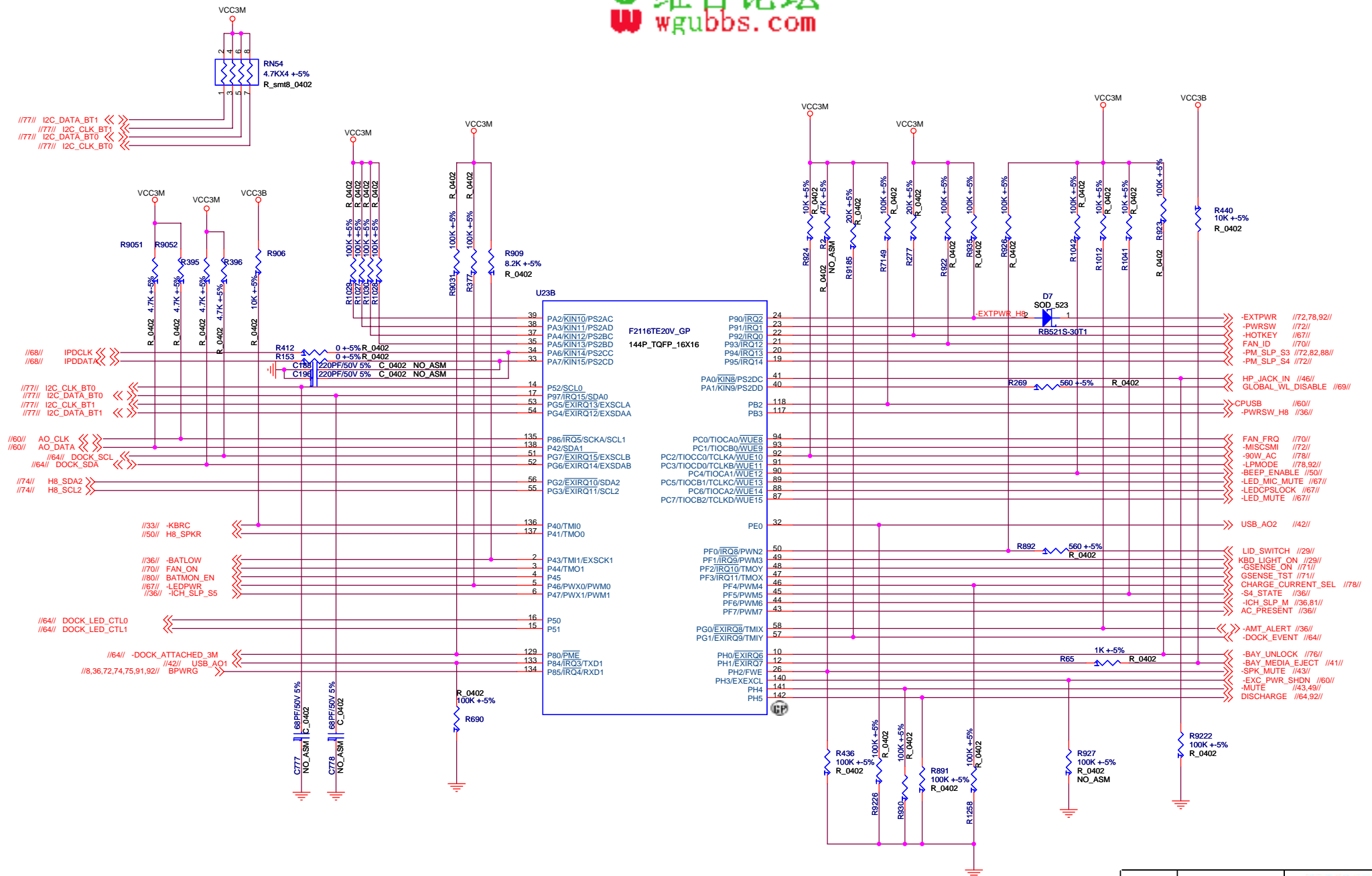
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                             |            | sheet 63 of 102<br>Friday, January 09, 2009 |

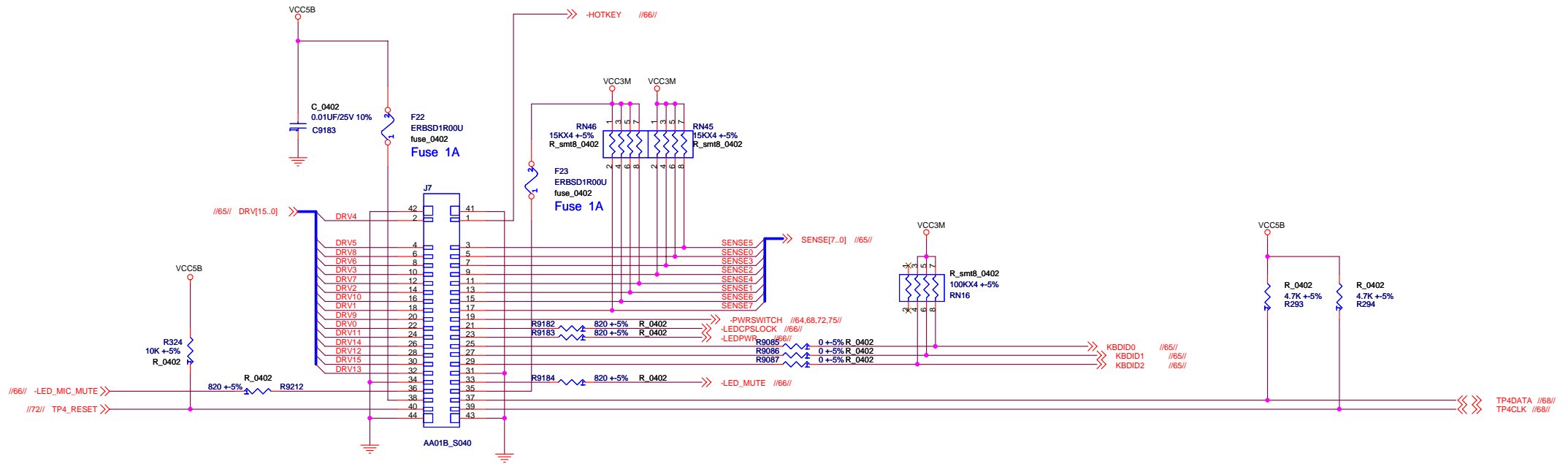



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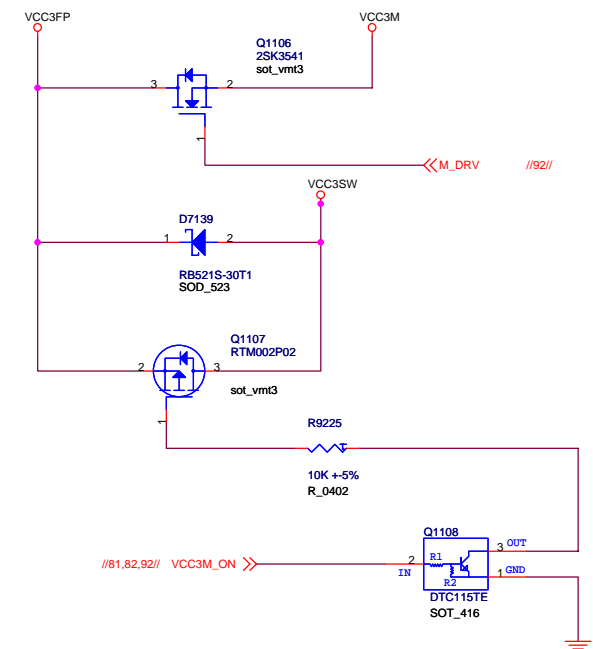
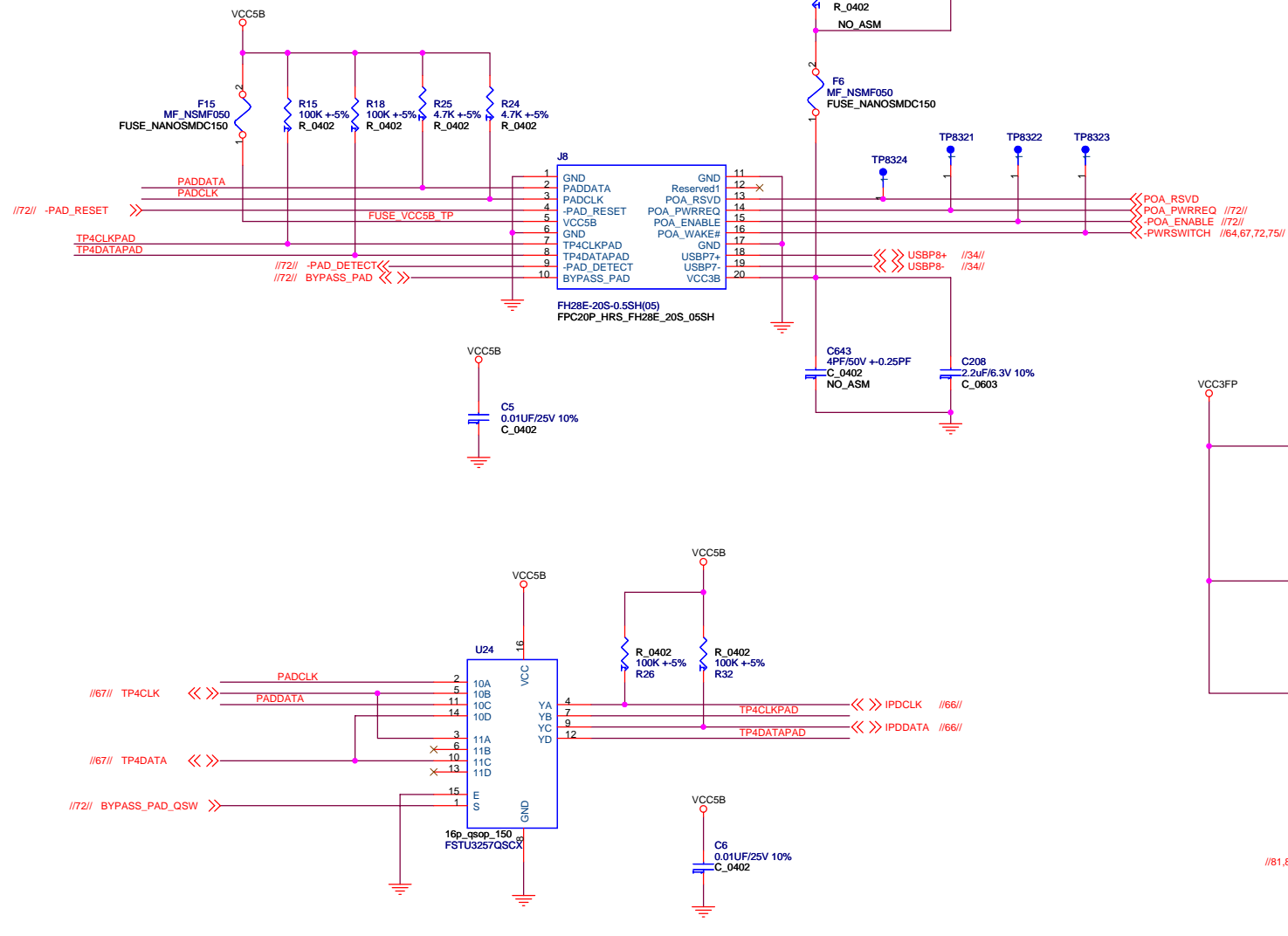




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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |            | sheet 66 of 102<br>Friday, January 09, 2009                                           |

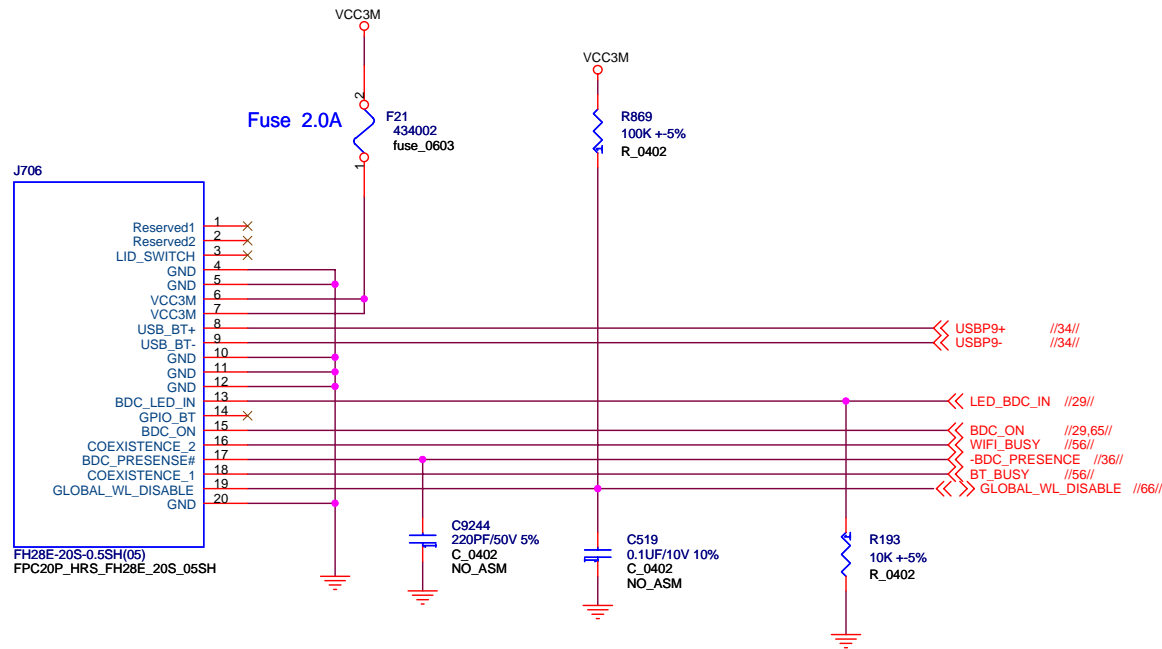


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |            | <p>sheet 67 of 102</p> <p>Friday, January 09, 2009</p>                                       |

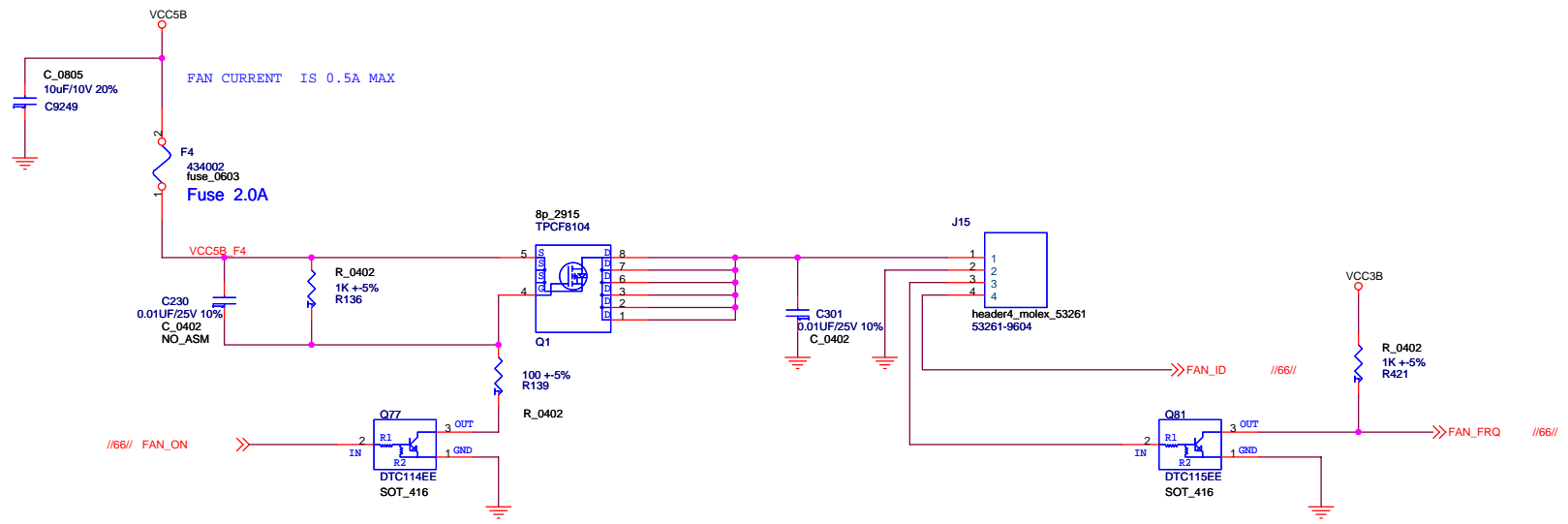



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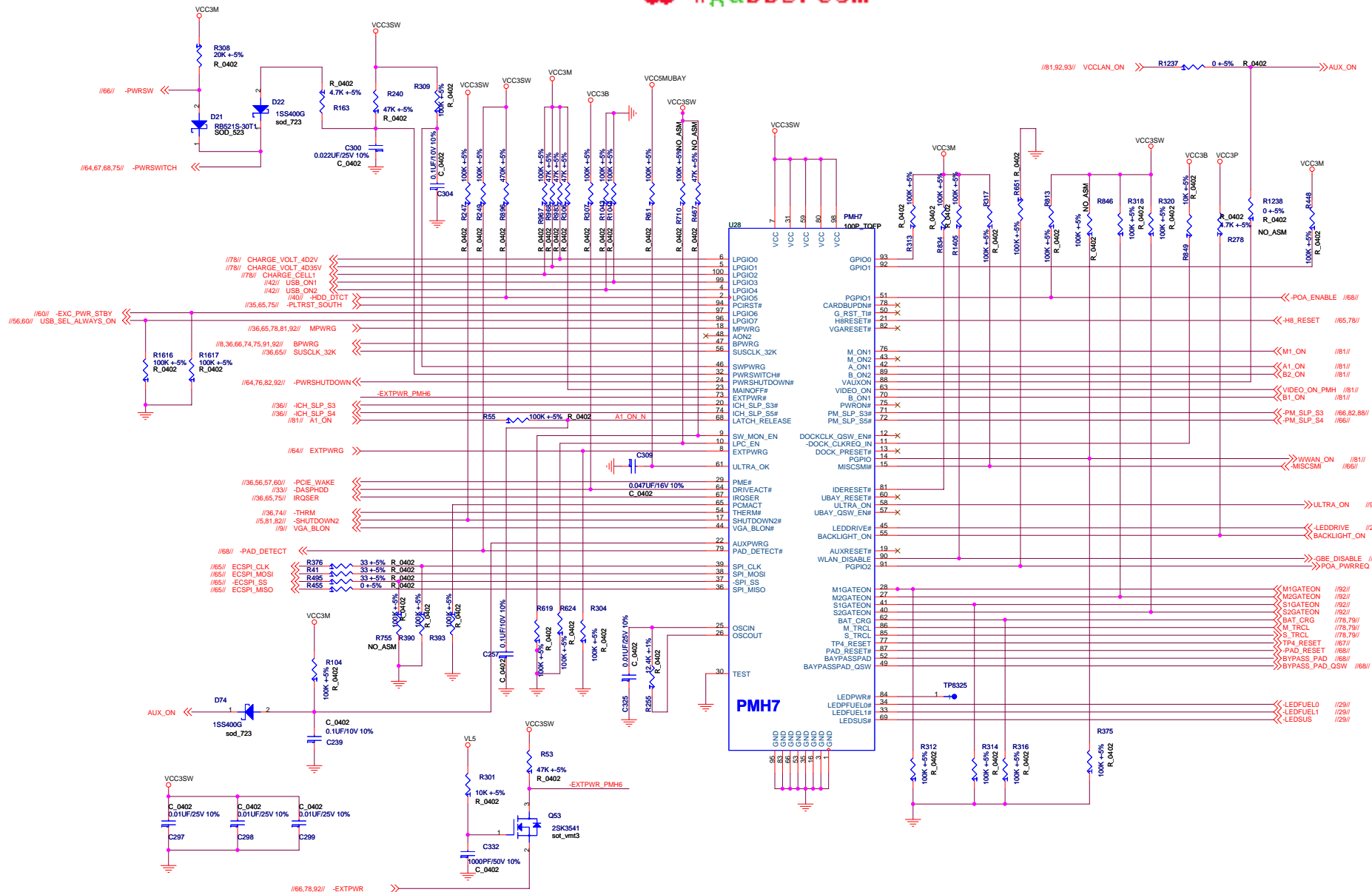



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|                                                                                                                                                                                                                              |            | BT and WL disable SW                        |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 69 of 102<br>Friday, January 09, 2009 |




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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 70 of 102<br>Friday, January 09, 2009                                           |

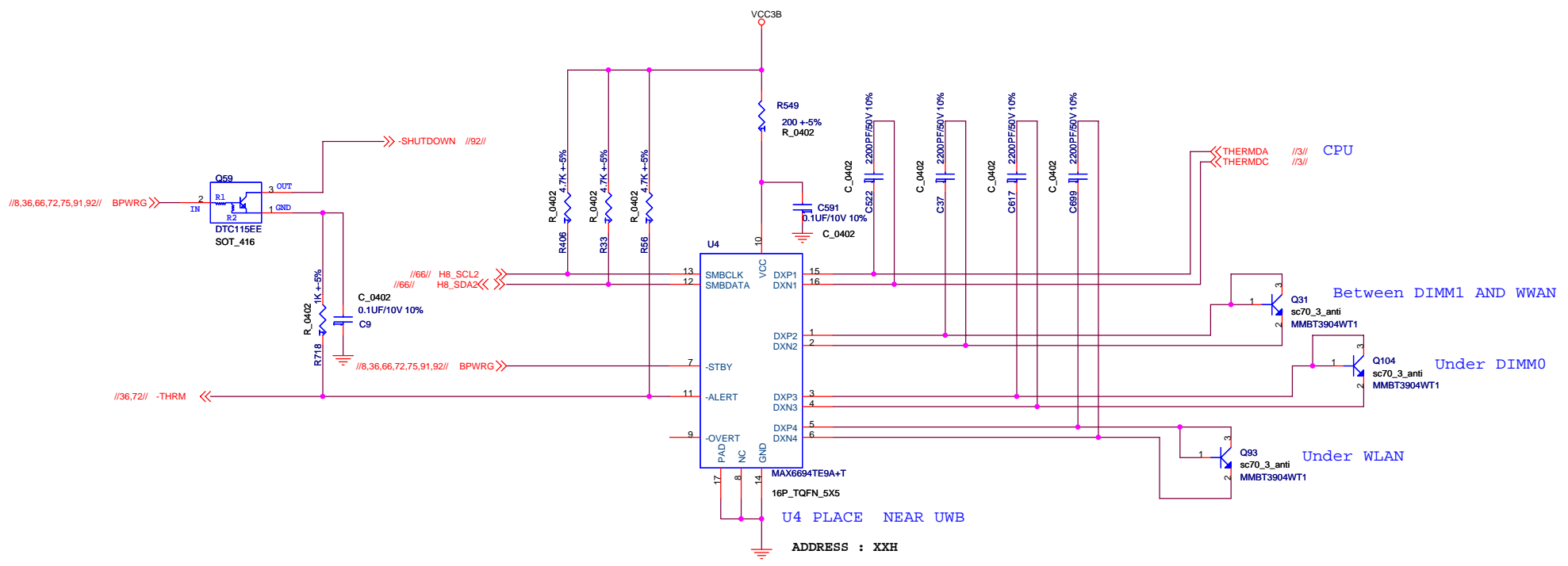




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| CLASS                                                                                                                                                                                                                               | <OrgAdd1> | EC No.                                                                                | N11104  |
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |           | <p>sheet 72 of 102</p> <p>Friday, January 08, 2009</p>                                |         |

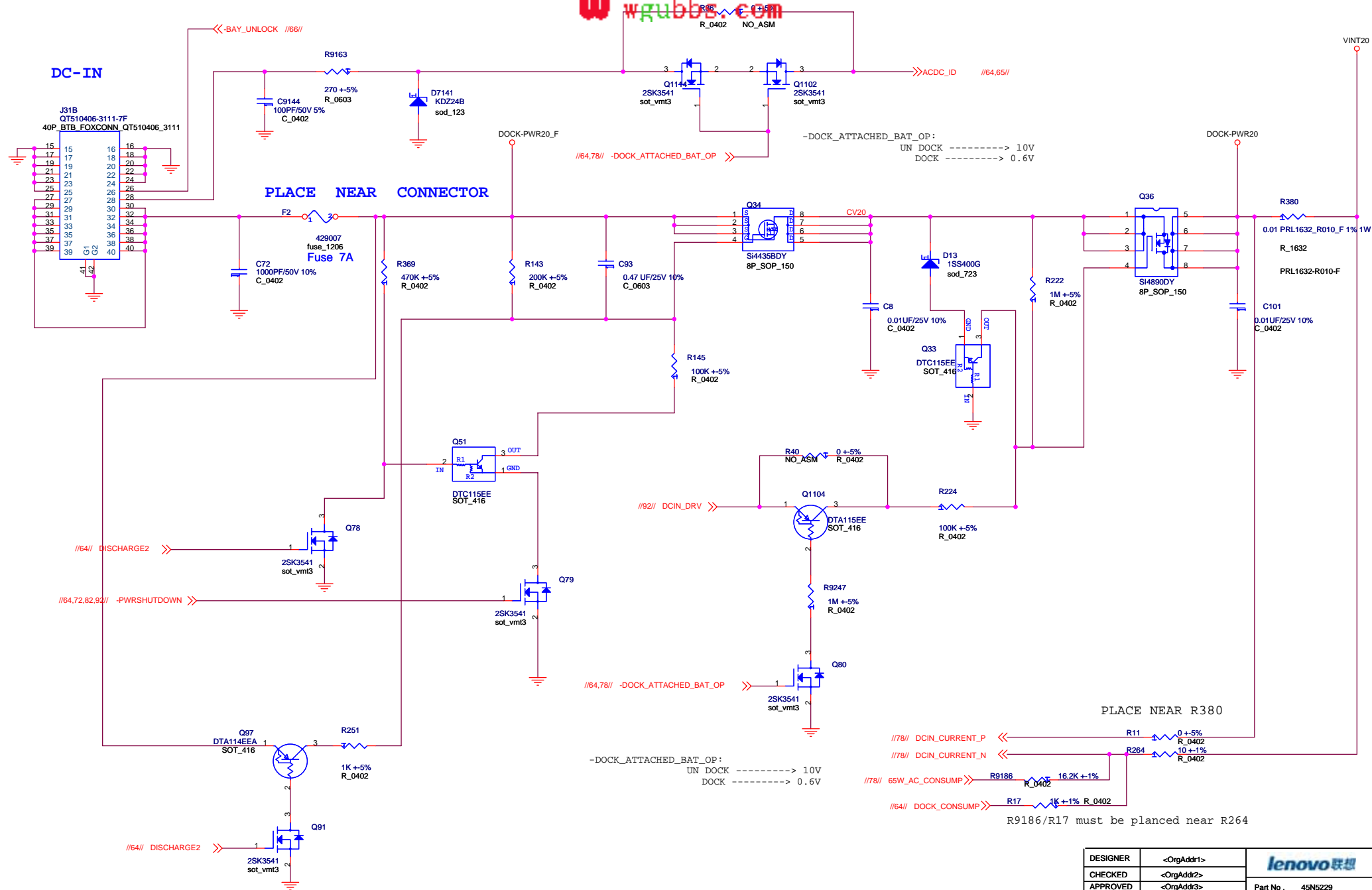
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|                                                                                                                                                                                                                                             |            | TITLE: Shinai_MV Ver:SIT                                                              |
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 73 of 102<br>Friday, January 09, 2009                                           |



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|                                                                                                                                                                                                                              |            | THERMAL SENSOR                              |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 74 of 102<br>Friday, January 09, 2009 |

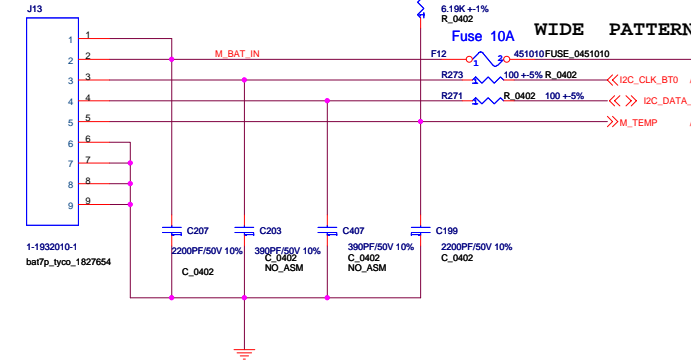




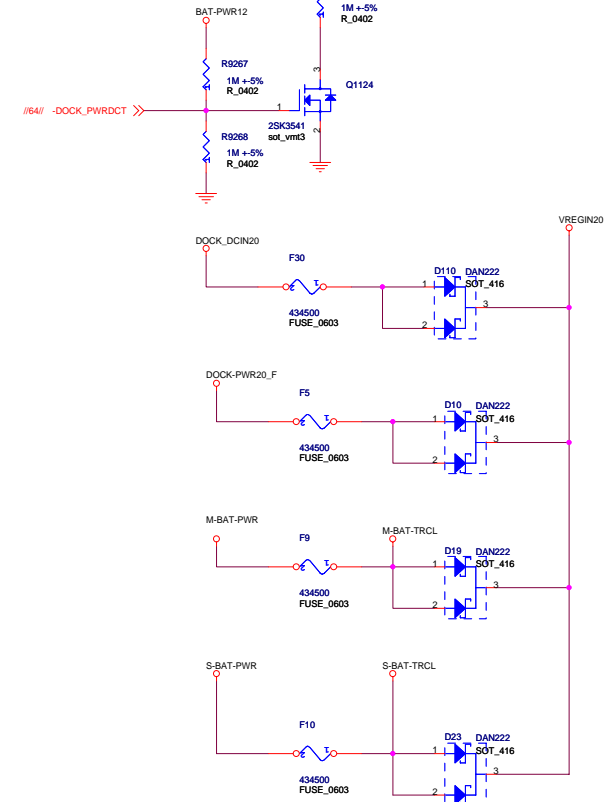
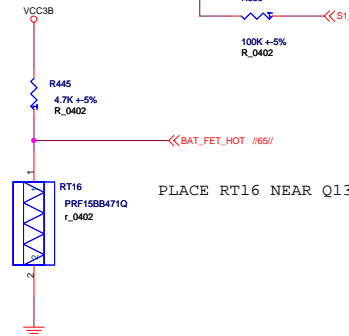
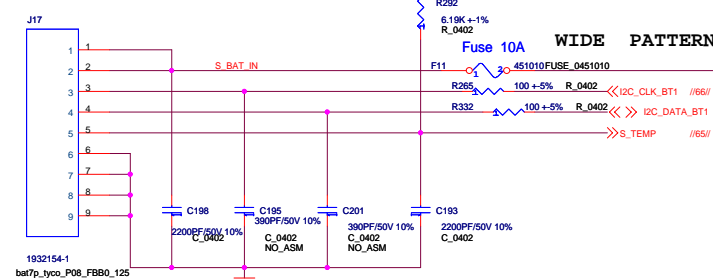
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | DC-IN                                       |
|                                                                                                                                                                                                                              |            | sheet 76 of 102<br>Friday, January 09, 2009 |



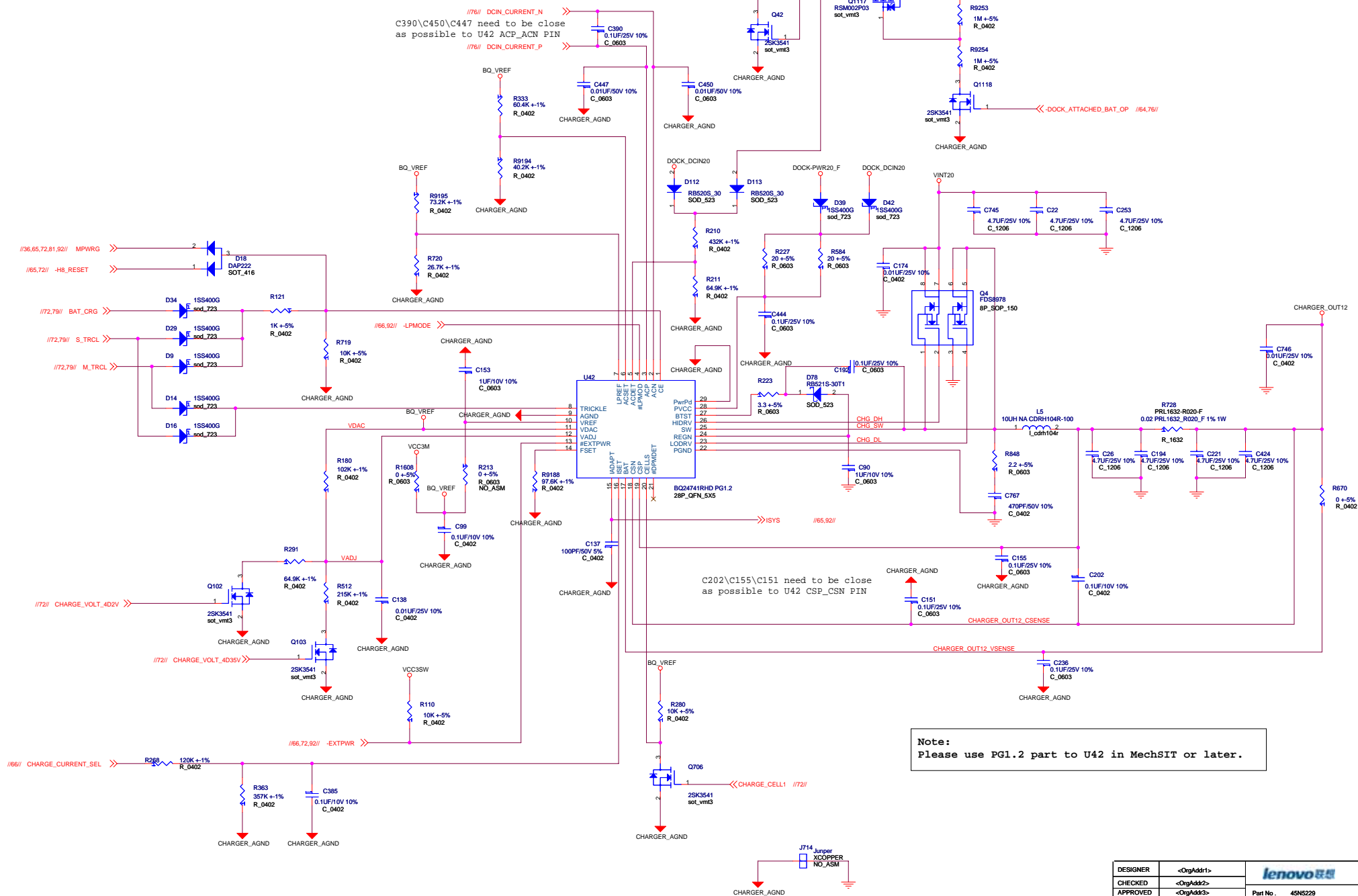
# MAIN BAT CONN




# SECOND BAT CONN

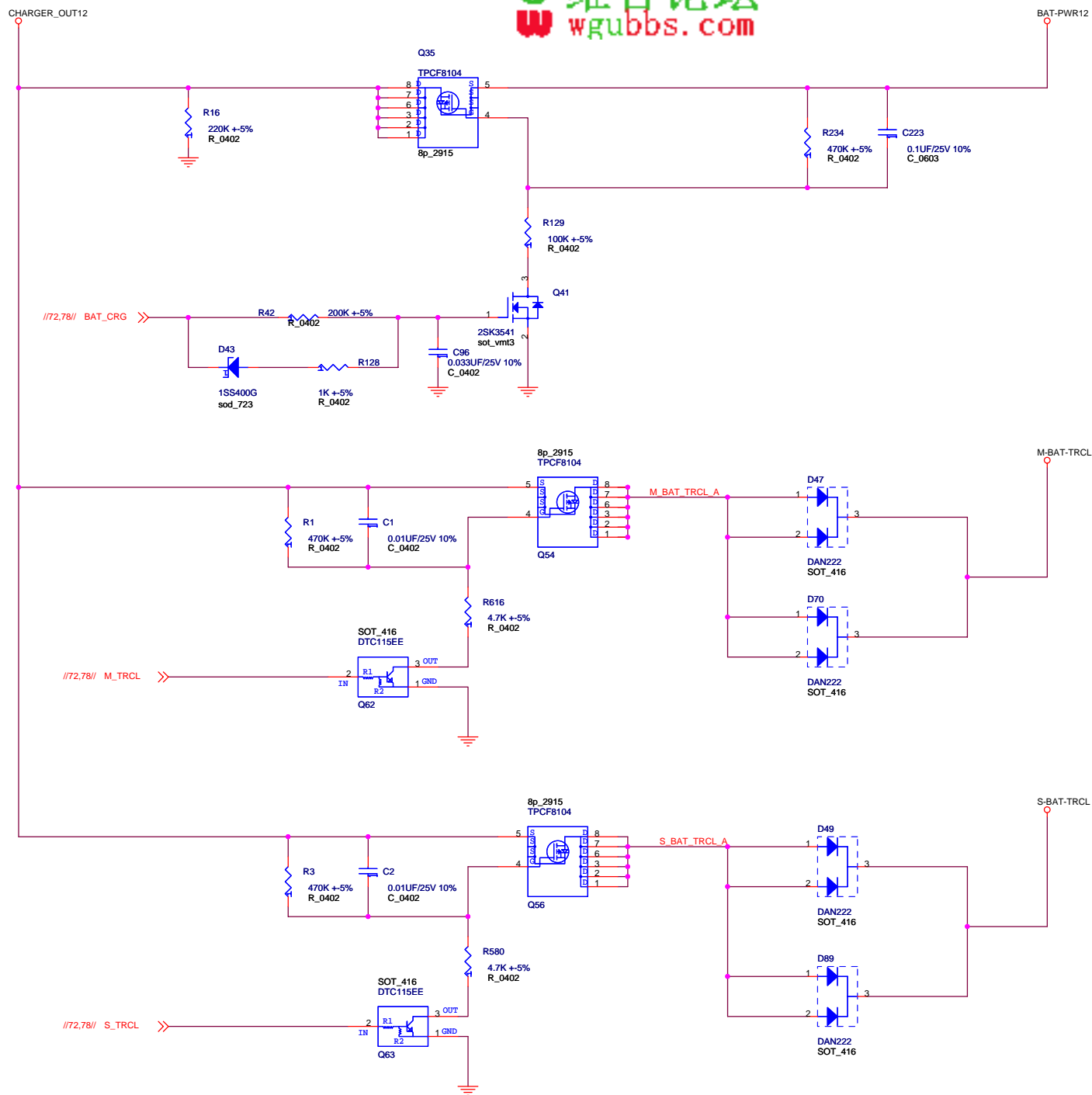


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |           | EC No. N11104                               |
|                                                                                                                                                                                                                                             |           | TITLE: Shina_MV Ver:51T                     |
|                                                                                                                                                                                                                                             |           | BATTERY INPUT                               |
|                                                                                                                                                                                                                                             |           | sheet 77 of 102<br>Friday, January 09, 2009 |

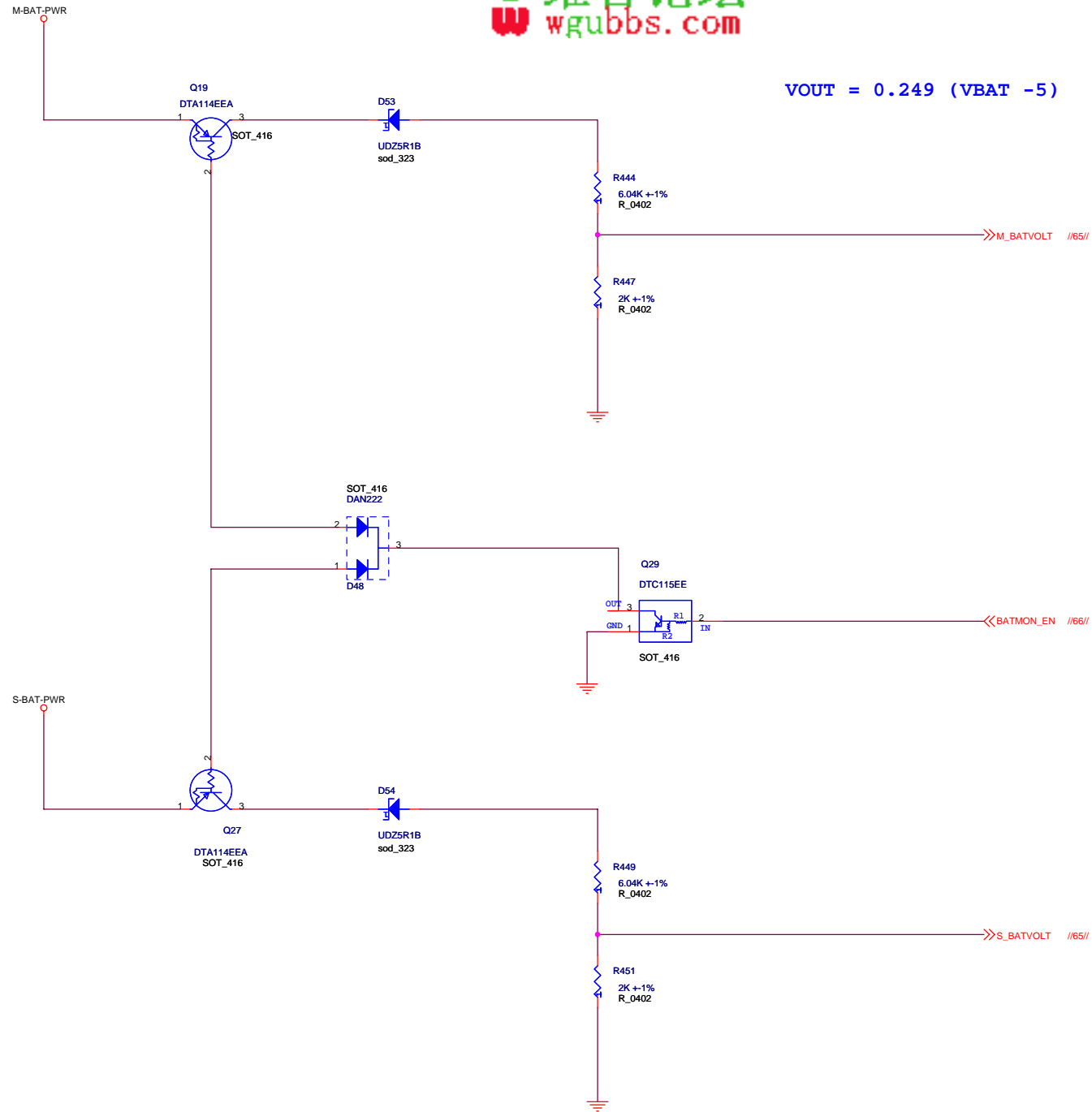



Note:  
Please use PG1.2 part to U42 in MechSIT or later.

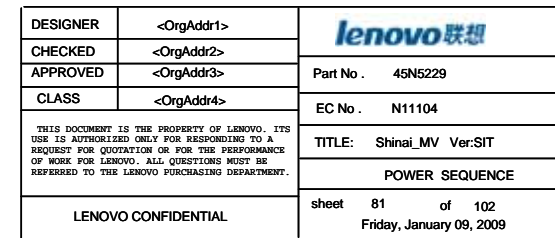
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |          | Part No. 45N5229<br>EC No. N1104<br>TITLE: Shina_MV Ver:51T<br>BATTERY CHARGER(BQ24741)<br>sheet 78 of 102<br>Friday, January 09, 2009 |

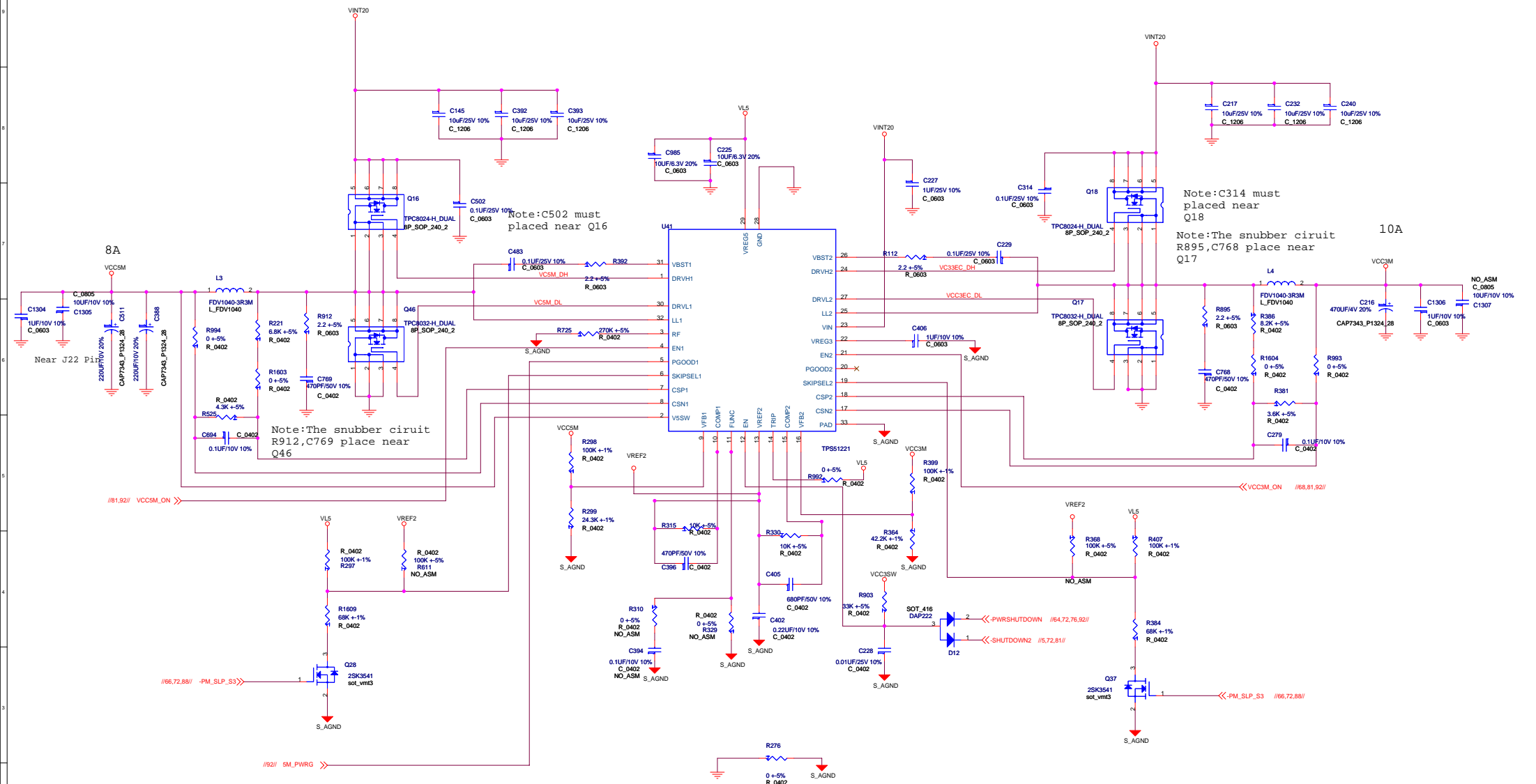


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | CHARGE SELECTOR                             |
|                                                                                                                                                                                                                              |            | sheet 79 of 102<br>Friday, January 09, 2009 |




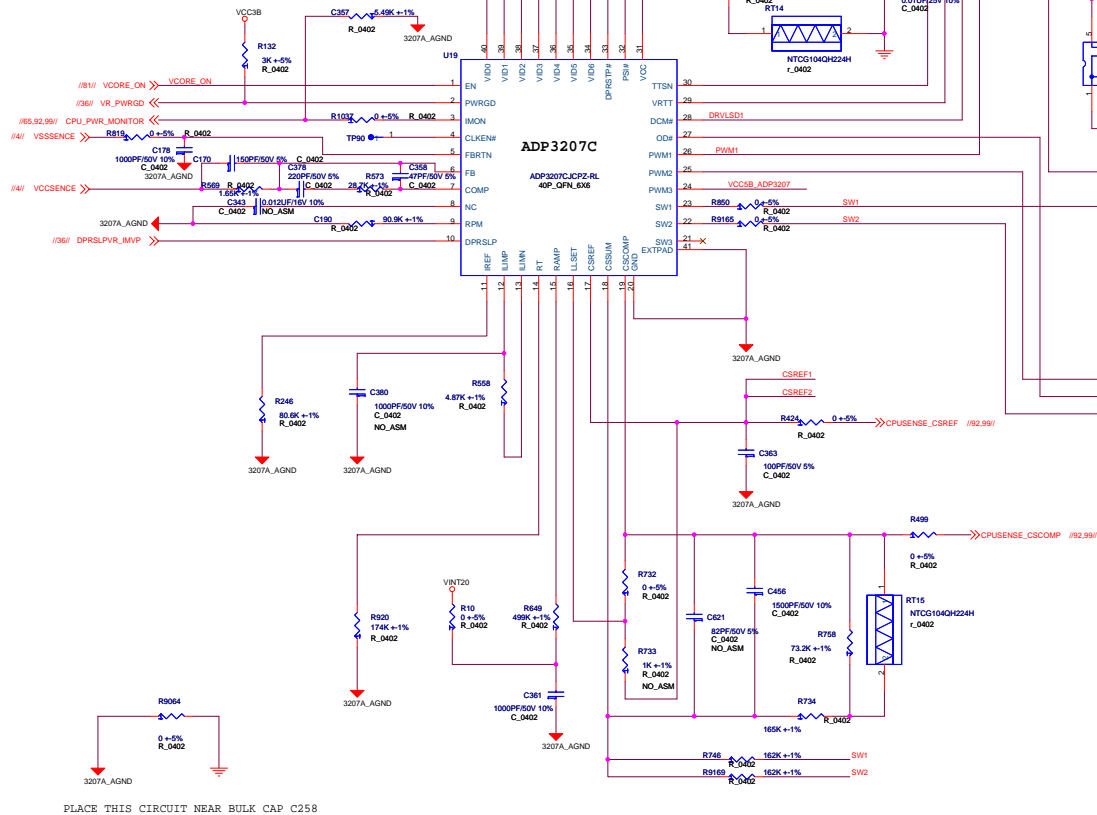
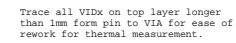
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | BATTERY MONITOR                                                                       |
|                                                                                                                                                                                                                              |            | sheet 80 of 102<br>Friday, January 09, 2009                                           |





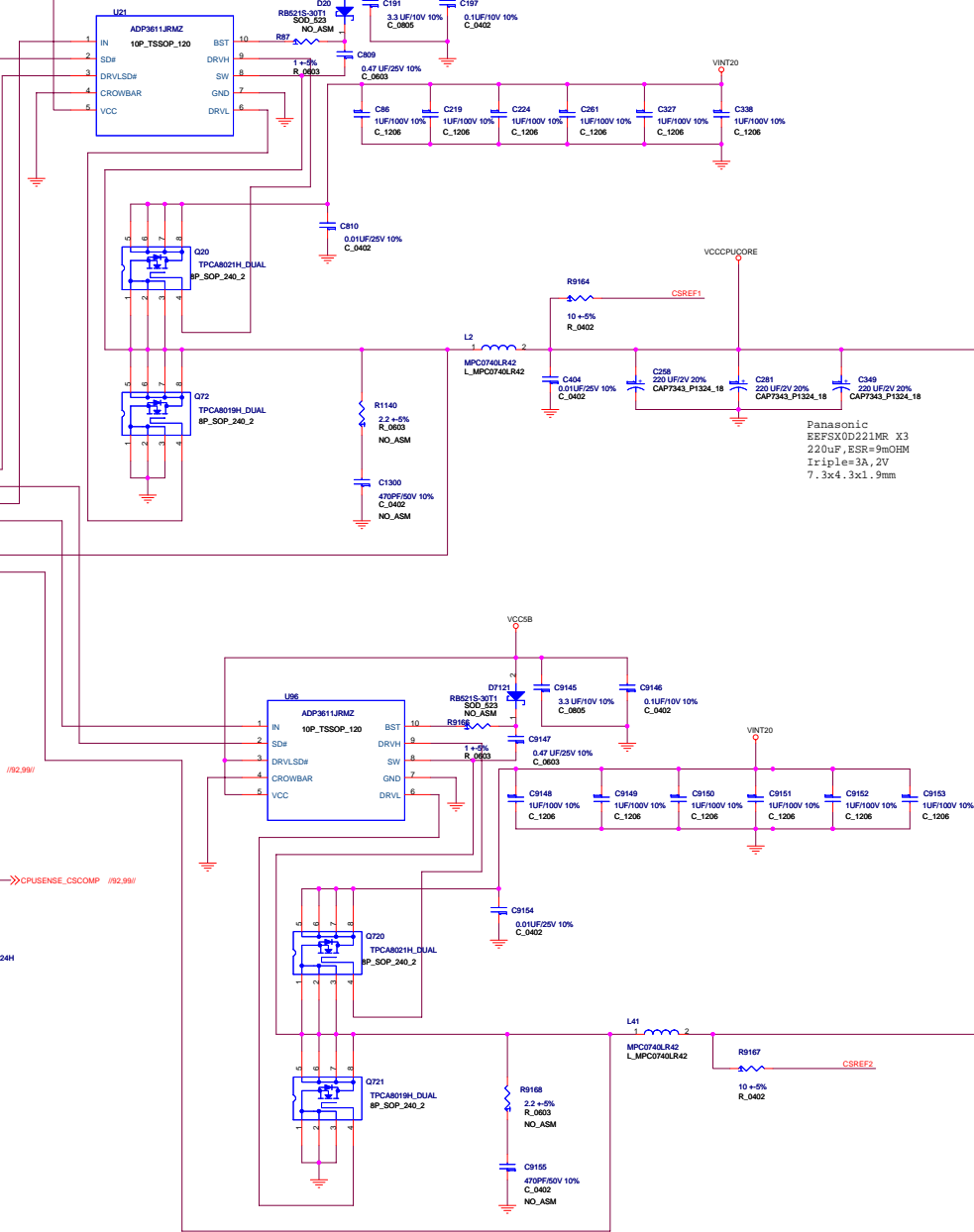
Note:R10029 must be placed  
near U41.28 PIN(GND)


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| LENOVO CONFIDENTIAL                                                                                                                                                                                                             |            |                                                                                                                                           |

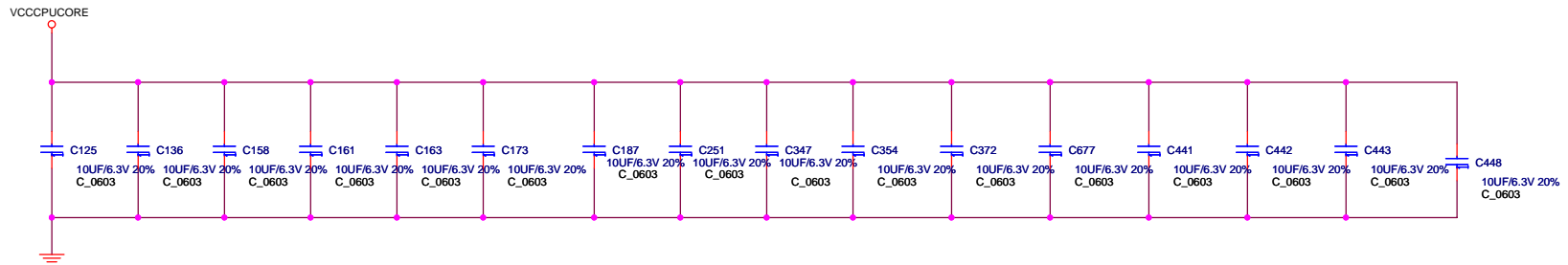


PLACE THIS CIRCUIT NEAR BULK CAP C258

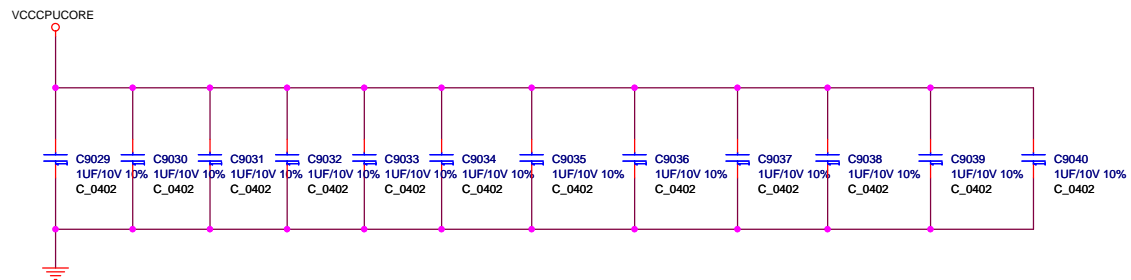
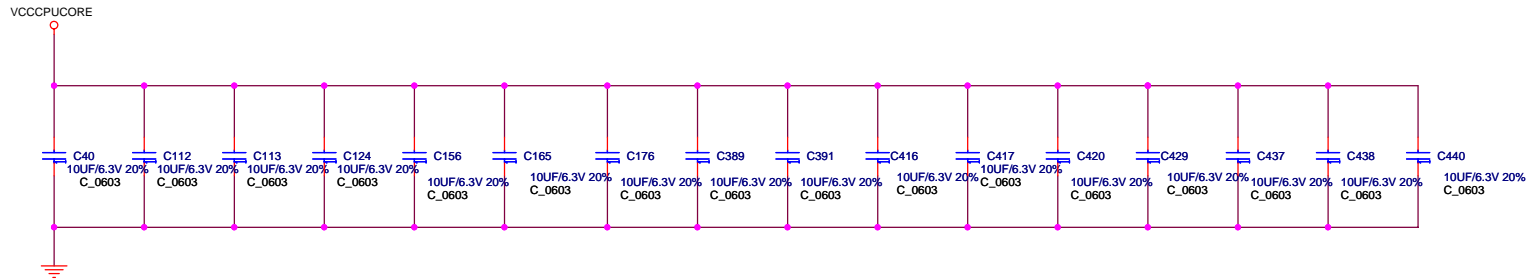
OCP Value is 45A by  $R_{558}=4.87\text{Kohm}$



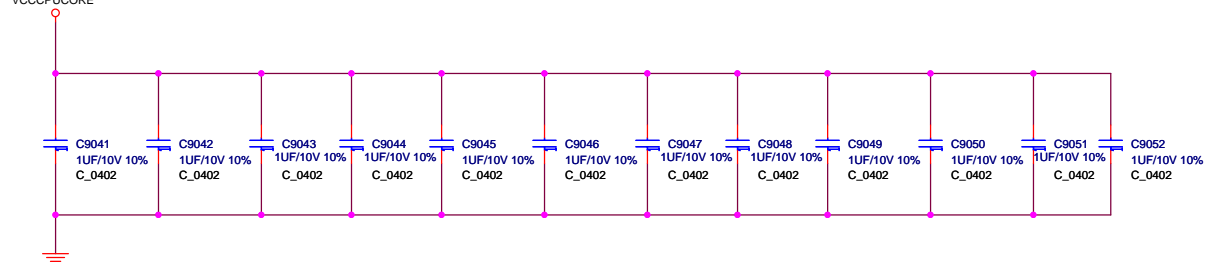
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                              |          | TITLE: Shinal_MV Ver:3T<br><br>WCCPCUCORE (AD3297)<br><br>sheet 83 of 102<br>Friday, January 09, 2009 |




Mid-Frequency Decoupling 10UF 4V X5R 0603 1/16W X 32PCS




High-Frequency Decoupling 1UF 10V X5R 0402 1/16W X 24PCS



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| CLASS                                                                                                                                                                                                                        | <OrgAddr4> | EC No . N11104                                                                        |
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|                                                                                                                                                                                                                              |            | VCCCPUCORE DECOUPLING                                                                 |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 84 of 102<br>Friday, January 09, 2009                                           |

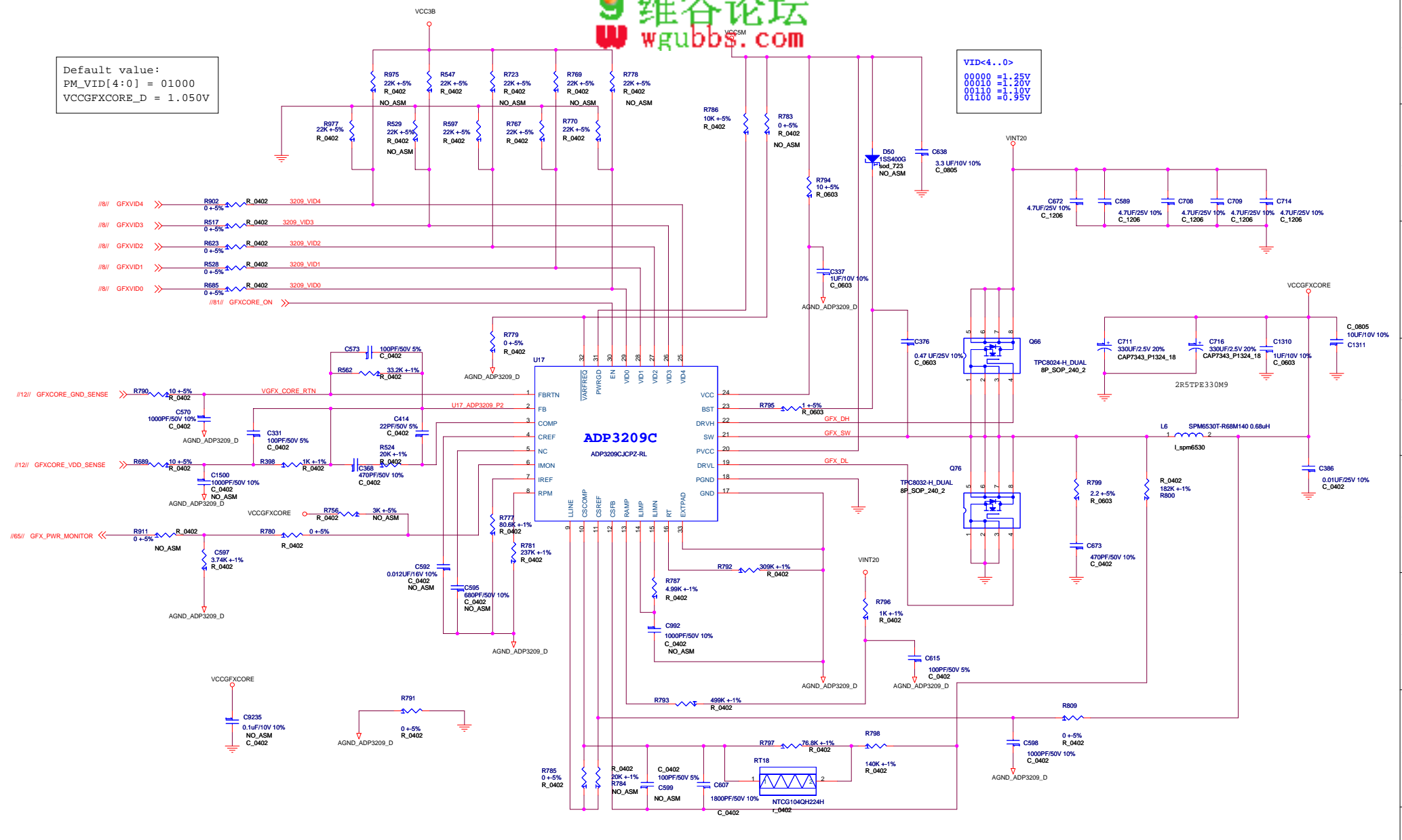


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|                                                                                                                                                                                                                              |            | TITLE: ShinaI_MV Ver:SIT                                                              |
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 85 of 102<br>Friday, January 09, 2009                                           |

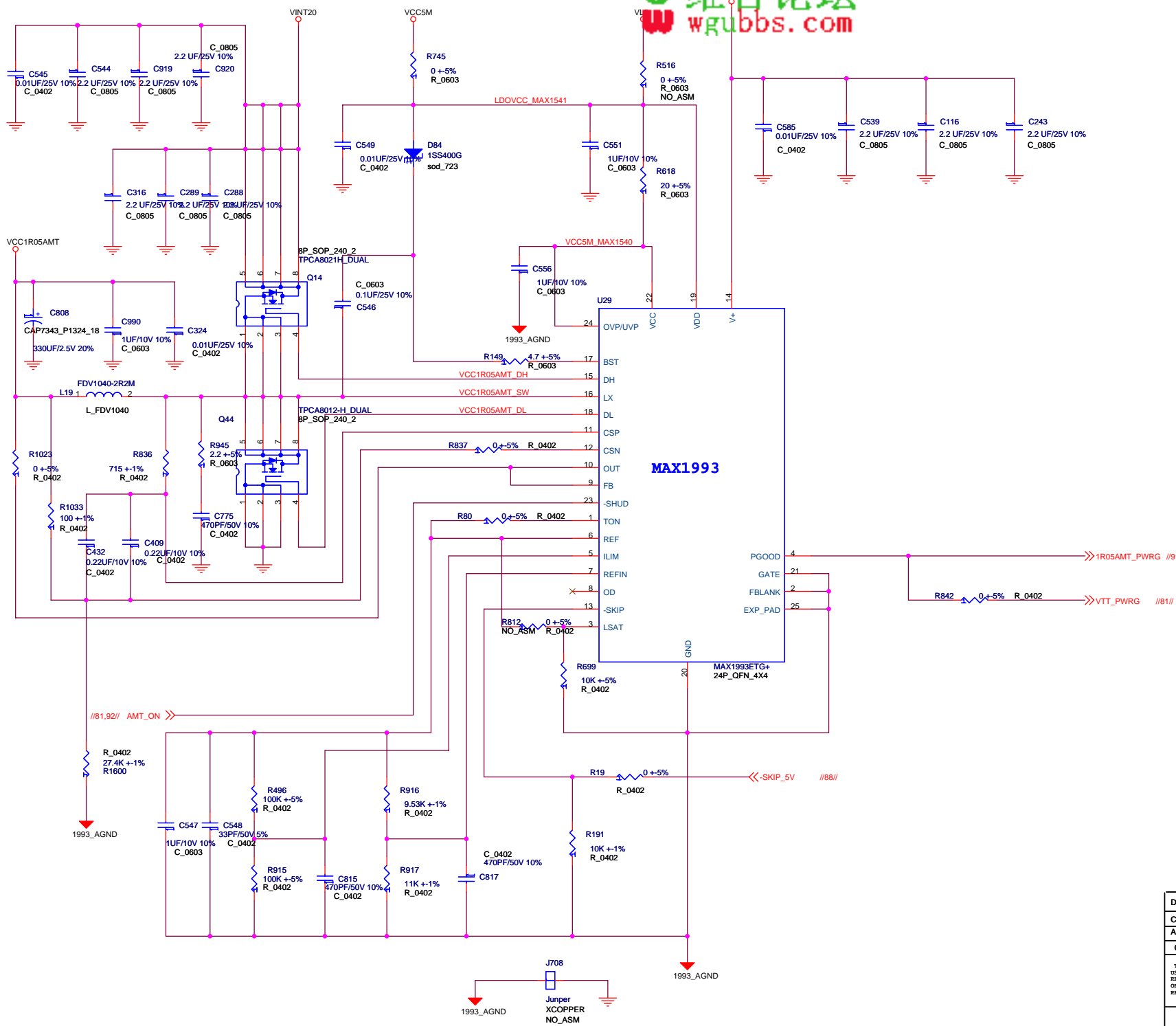
Default value:  
PM\_VID[4:0] = 01000  
VCCGFXCORE\_D = 1.050V


VID<4..0>  
00000 =1.25V  
00010 =1.20V  
00110 =1.10V  
01100 =0.95V

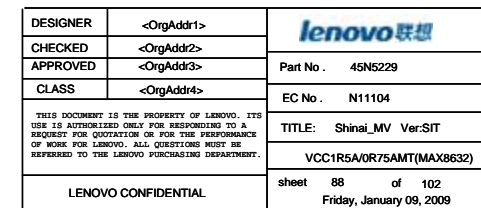


OCP Setting Value : 15A for R787=4.99K


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| CLASS                       | <OrigAddr4> |                                             |
| Part No. 45N5229            |             | EC No. N11104                               |
| TITLE: VCCGFXCORE_DNMAX1903 |             | sheet 86 of 102<br>Friday, January 09, 2009 |
| LENOVO CONFIDENTIAL         |             |                                             |




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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |             | sheet 87 of 102<br>Friday, January 09, 2009                                           |



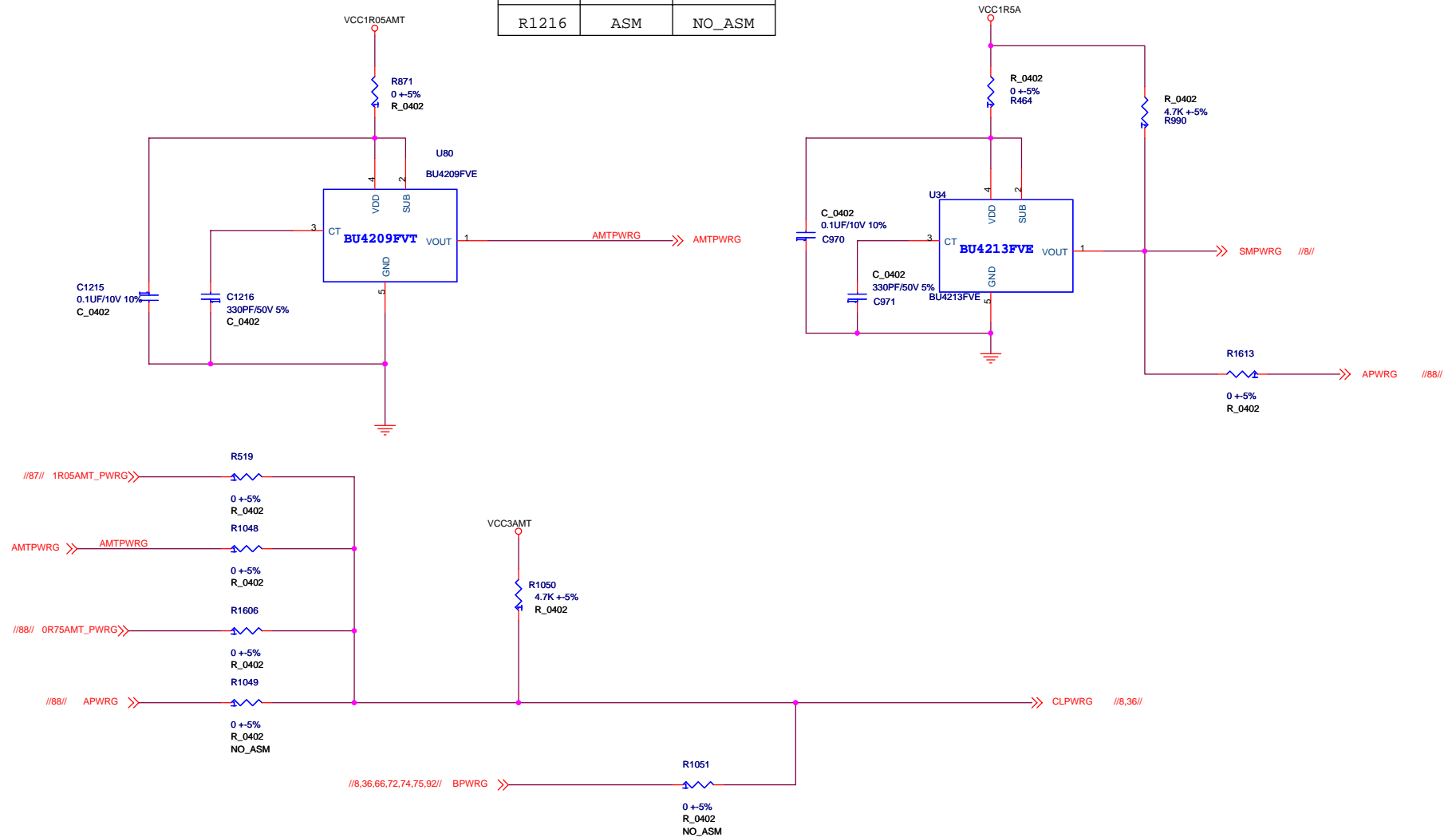
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|                                                                                                                                                                                                                                             |            | TITLE: Shinai_MV Ver:SIT                                                              |
|                                                                                                                                                                                                                                             |            | LOAD SW 0R75AMT                                                                       |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 89 of 102<br>Friday, January 09, 2009                                           |


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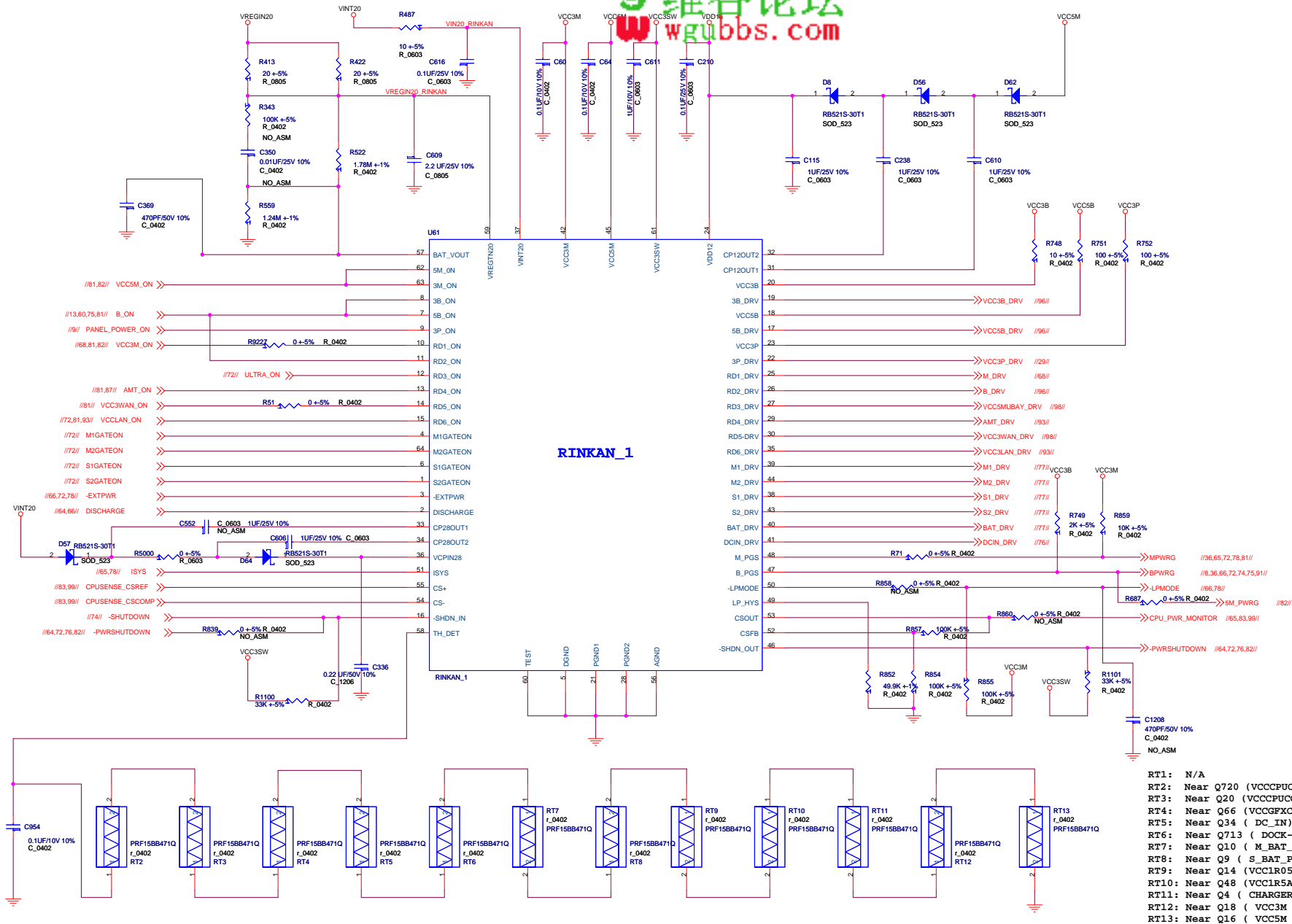
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|                                                                                                                                                                                                                                             |            | EC No . N11104                                                                        |
|                                                                                                                                                                                                                                             |            | TITLE: ShinaI_MV Ver:SIT                                                              |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | LOAD SW VIDEO                                                                         |
|                                                                                                                                                                                                                                             |            | sheet 90 of 102<br>Friday, January 09, 2009                                           |

|       | AMT | NO-AMT |
|-------|-----|--------|
| U80   | ASM | NO_ASM |
| R871  | ASM | NO_ASM |
| R1215 | ASM | NO_ASM |
| R1216 | ASM | NO_ASM |




|                                 |        |        |
|---------------------------------|--------|--------|
|                                 | AMT    | NO-AMT |
| R1051                           | NO_ASM | ASM    |
| R436<br>R1048<br>R1606<br>R1050 | ASM    | NO_ASM |

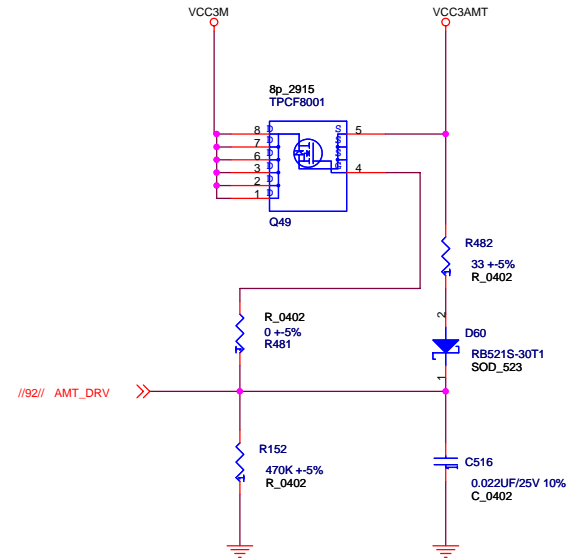
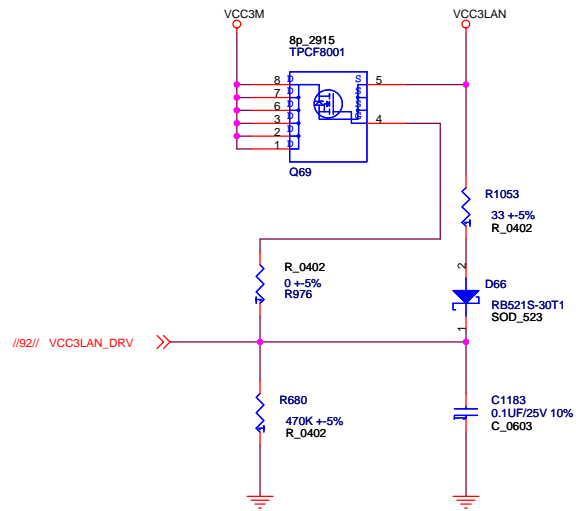
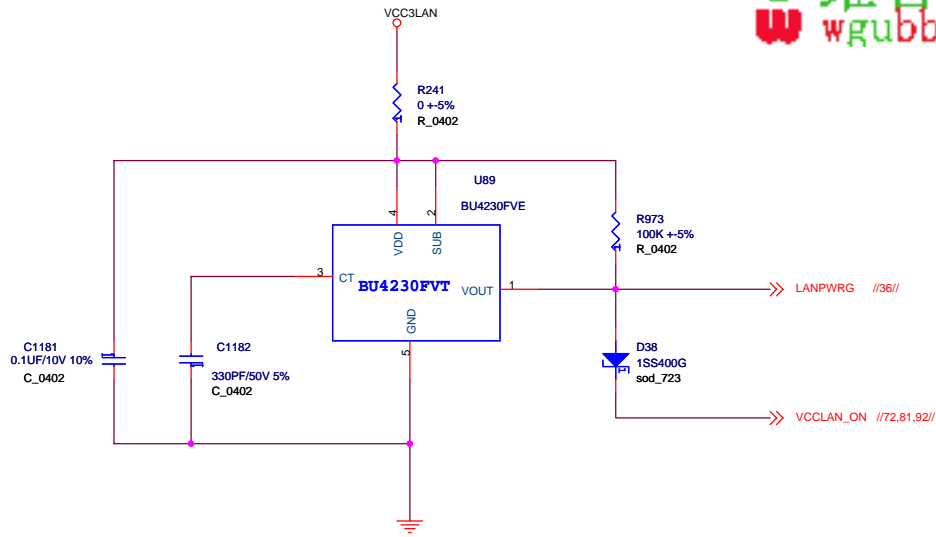
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                                 |            | sheet 91 of 102<br>Friday, January 09, 2009                                                |




- RT1: N/A  
 RT2: Near Q720 (VCCCPUCORE High-side power mosfet-2)  
 RT3: Near Q20 (VCCCPUCORE High-side power mosfet-1)  
 RT4: Near Q66 (VCCGFXCORE High-side power mosfet)  
 RT5: Near Q34 (DC\_IN)  
 RT6: Near Q713 (DOCK-PWR20\_IN)  
 RT7: Near Q10 (M\_BAT\_PWR)  
 RT8: Near Q9 (S\_BAT\_PWR)  
 RT9: Near Q14 (VCC1R05AMT High-side power mosfet)  
 RT10: Near Q48 (VCC1R5A High-side power mosfet)  
 RT11: Near Q4 (CHARGER\_OUT12)  
 RT12: Near Q18 (VCC3M High-side power mosfet)  
 RT13: Near Q16 (VCC5M High-side power mosfet)
- RT14: Near L41 (VCCCPUCORE SW2)  
 RT15: Near L2 (VCCCPUCORE SW1)  
 RT16: Near Q13 (VINT20(Battery))  
 RT18: Near L6 (VCCGFXCORE)


|                                                                                                                                                                                                                              |             |                                                                                                                                                                                                                  |
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| DESIGNER                                                                                                                                                                                                                     | <OrigAddr1> | <br>Part No. 45N5229<br>EC No. N11104<br>TITLE: Shina_MV Ver:5IT<br>RINKAN-1<br>sheet 92 of 102<br>Friday, January 09, 2009 |
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |             |                                                                                                                                                                                                                  |






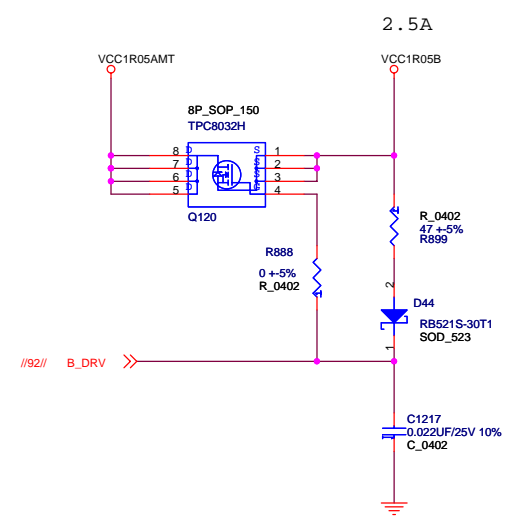
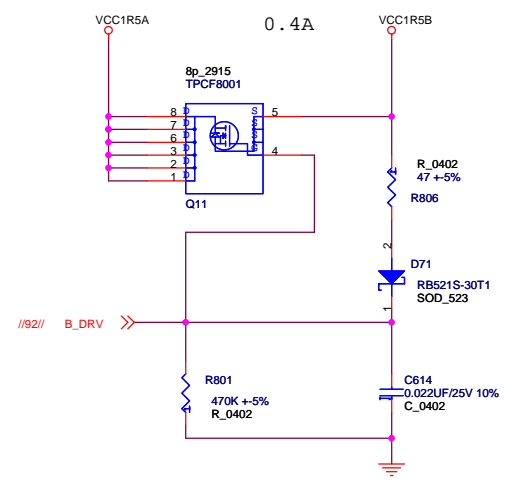
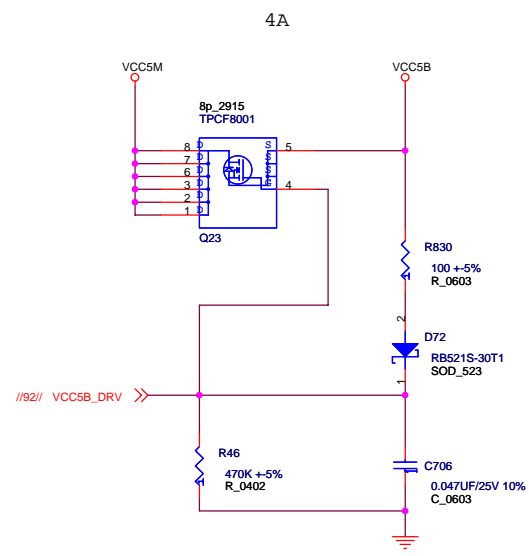
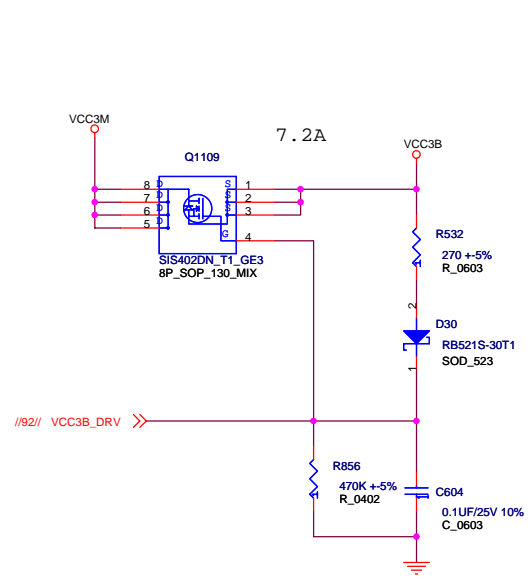
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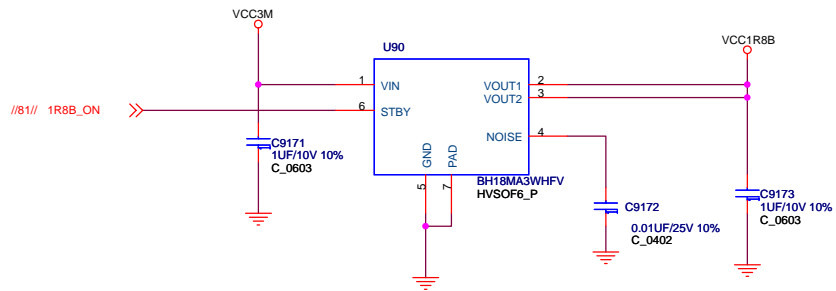
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 94 of 102<br>Friday, January 09, 2009                                           |

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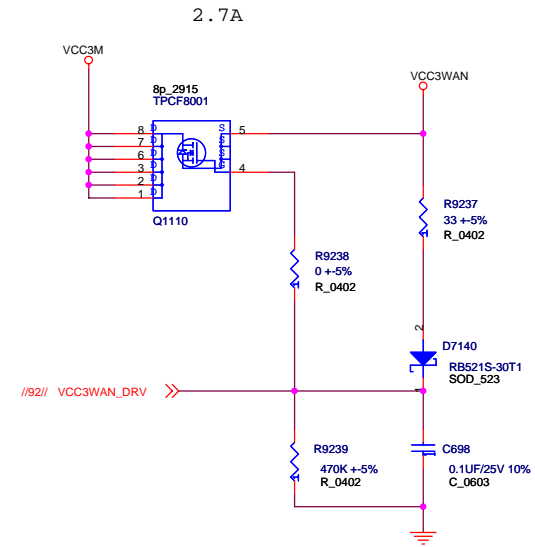
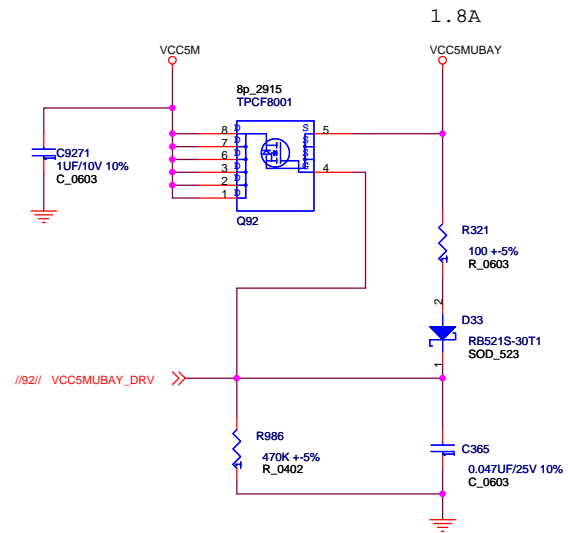
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 95 of 102<br>Friday, January 09, 2009                                           |



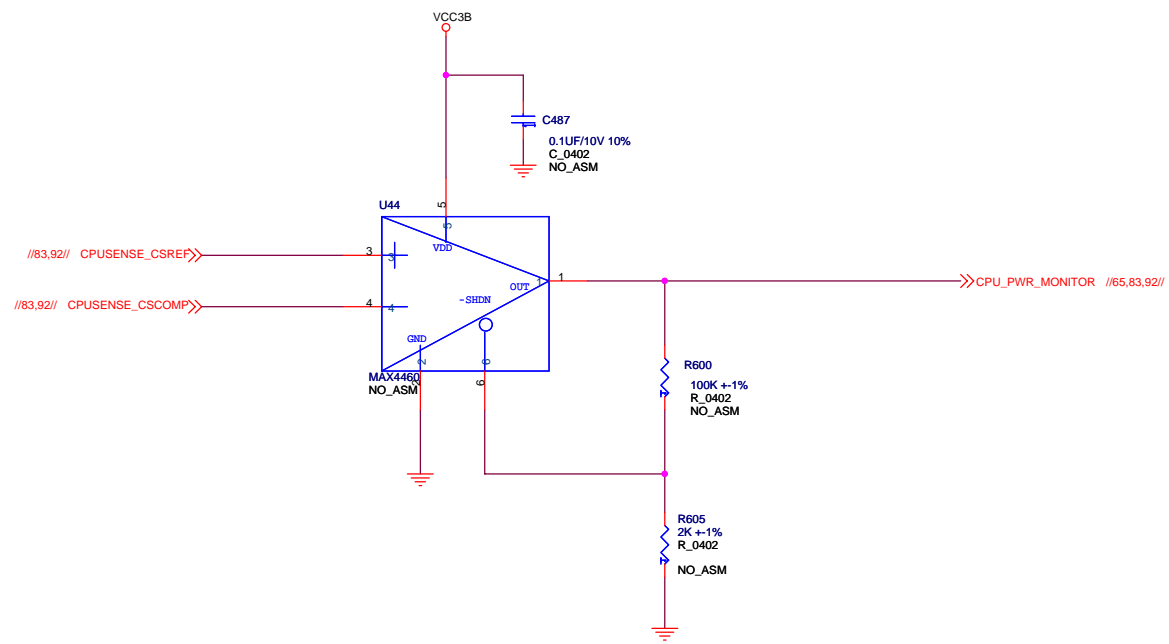
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| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 96 of 102<br>Friday, January 09, 2009 |



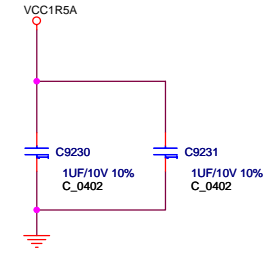
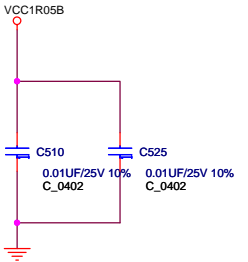
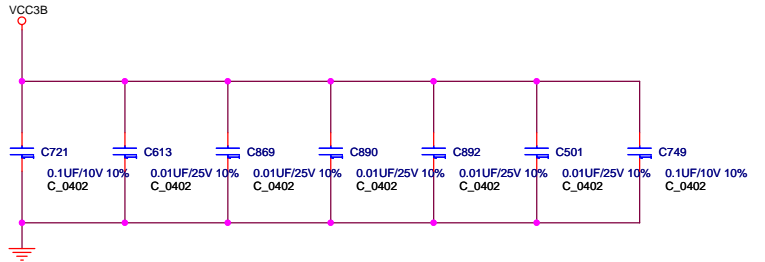
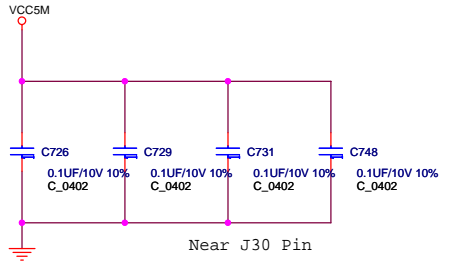
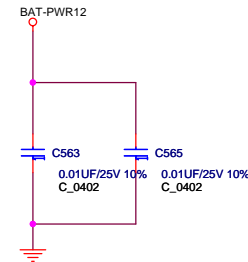
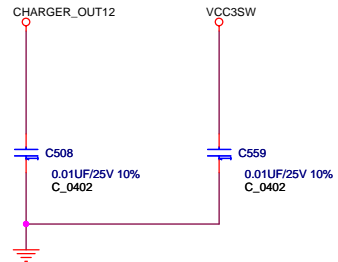
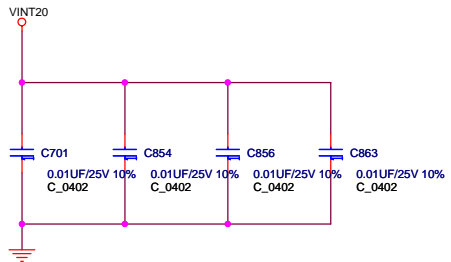
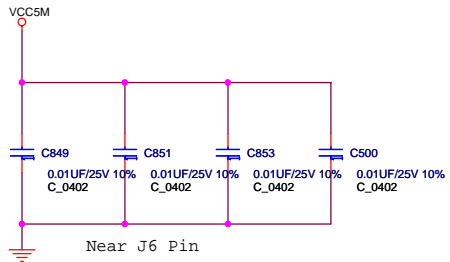
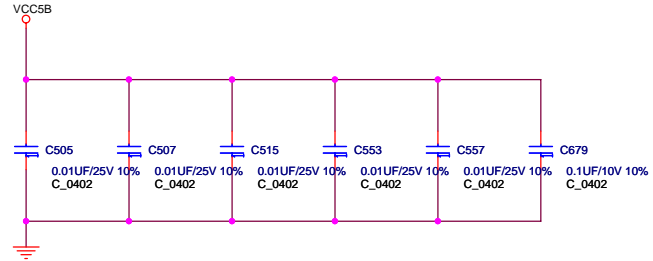
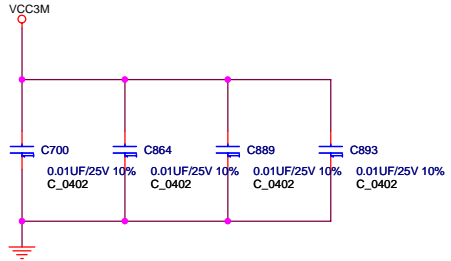
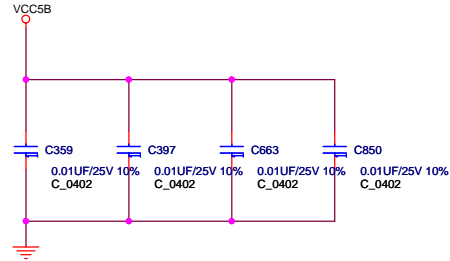
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|                                                                                                                                                                                                                              |            | DC/DC VCC1R8B                               |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 97 of 102<br>Friday, January 09, 2009 |



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|                                                                                                                                                                                                                              |            | LOAD SW UBAY&WWAN                           |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 98 of 102<br>Friday, January 09, 2009 |



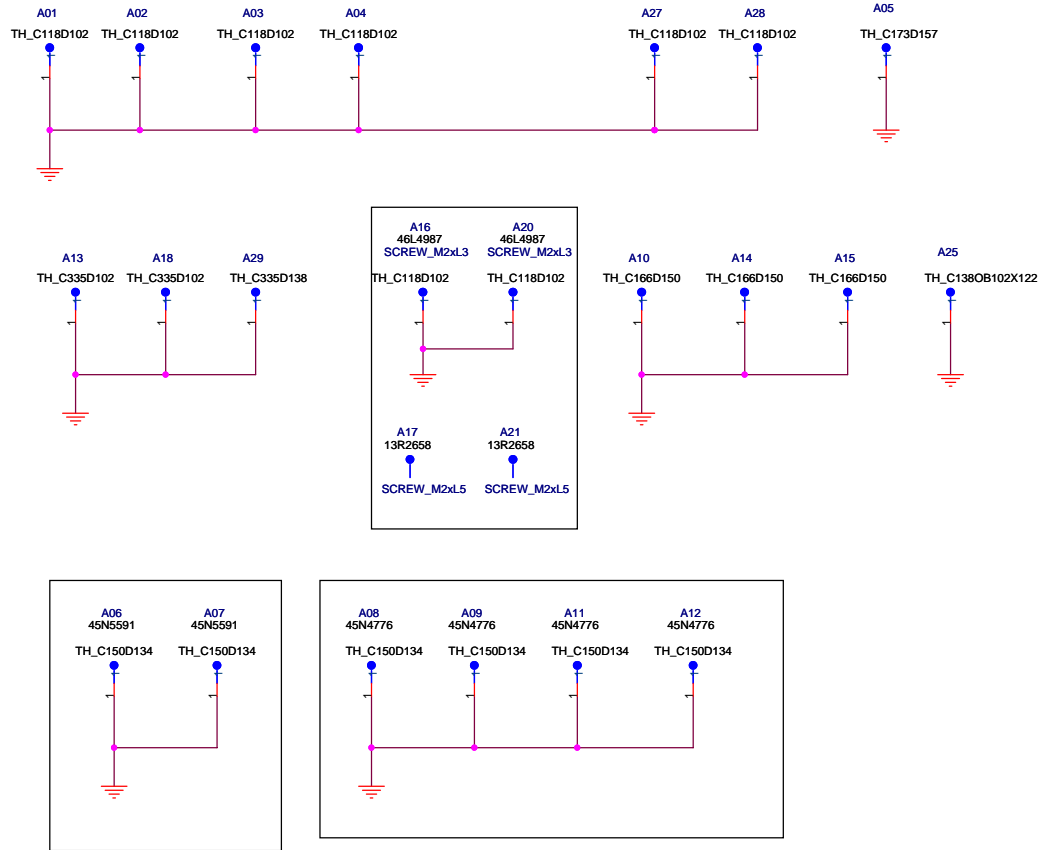
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|                                                                                                                                                                                                                              |            | CPU POWER MONITOR                           |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 99 of 102<br>Friday, January 09, 2009 |



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|                                                                                                                                                                                                                              |            | EMC DECOUPLING                               |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 100 of 102<br>Friday, January 09, 2009 |




PTH FOR SCREW HOLE



|                          |                                           |                                        |                                       |                                        |                               |
|--------------------------|-------------------------------------------|----------------------------------------|---------------------------------------|----------------------------------------|-------------------------------|
| MYLAR1<br>45N5121<br>TOP | MYLAR2<br>45N5122<br>MINI_PCI CARD BOTTOM | MYLAR3<br>45N5123<br>EXPRESS CARD SLOT | MYLAR4<br>45N5124<br>DIMM SOCKET LEFT | MYLAR5<br>45N5125<br>DIMM SOCKET RIGHT | MYLAR6<br>42X4663<br>SIM SLOT |
| MYLAR7<br>45N5576<br>CPU | MYLAR8<br>45N5577<br>NB                   |                                        |                                       |                                        |                               |

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|                                                                                                                                                                                                                              |            | PTH SCREW HOLES                              |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                          |            | sheet 101 of 102<br>Friday, January 09, 2009 |

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|                                                                                                                                                                                                                                             |            | TITLE: Shinai_MV Ver:SIT                                                              |
|                                                                                                                                                                                                                                             |            | History List                                                                          |
| LENOVO CONFIDENTIAL                                                                                                                                                                                                                         |            | sheet 102 of 102<br>Friday, January 09, 2009                                          |