

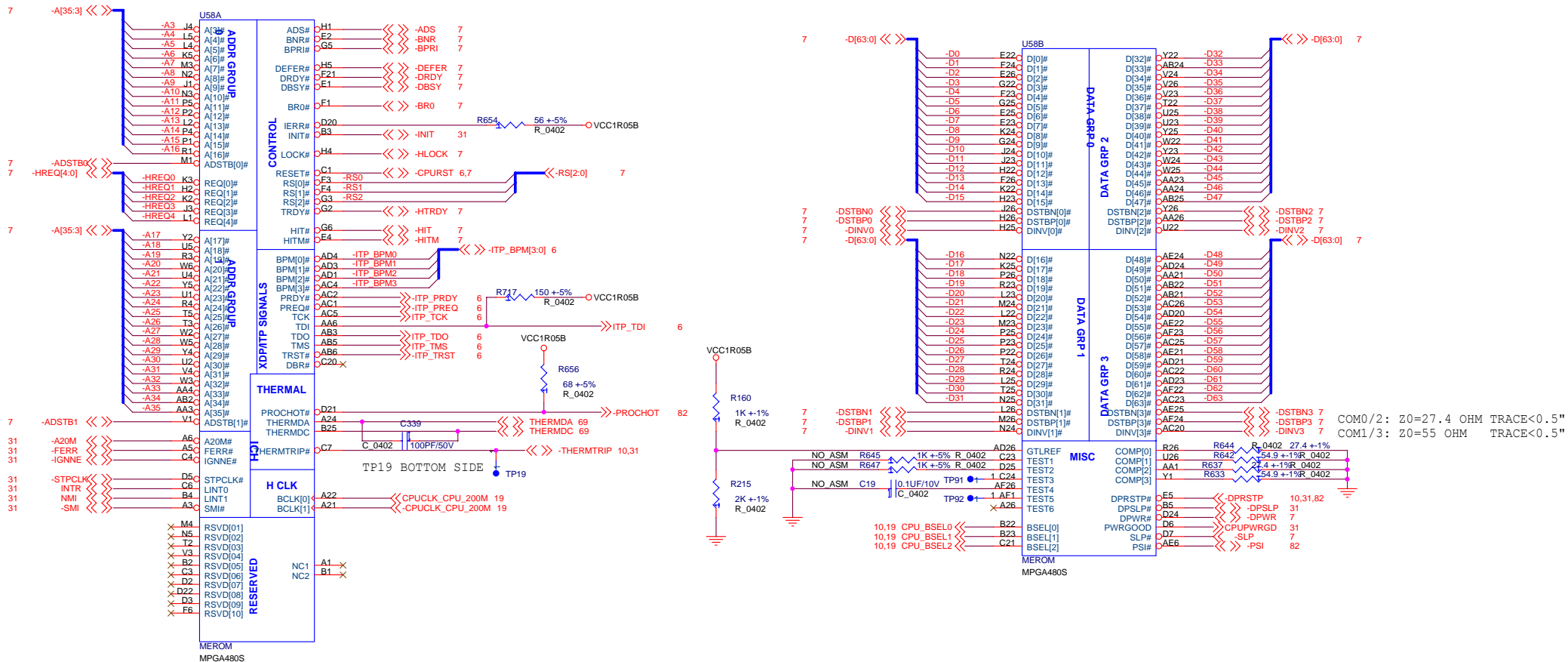
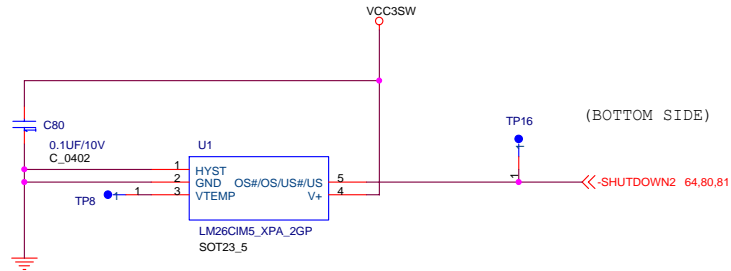
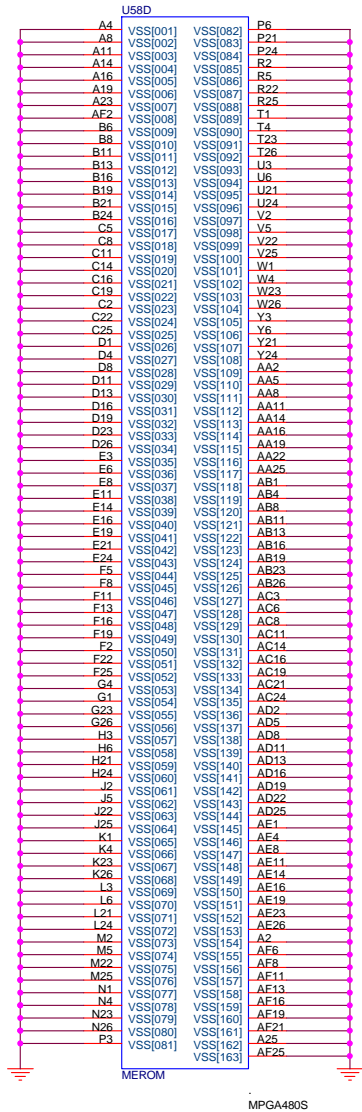


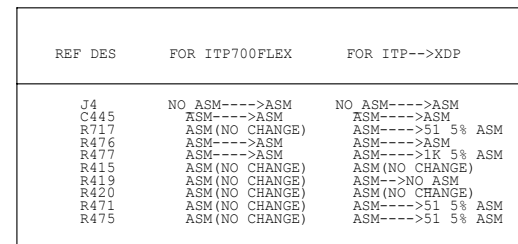
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		NB system design section	
Title			
EC HISTORY			
Size	Document Number		Rev s1.1
Custom	WAIKIKI		
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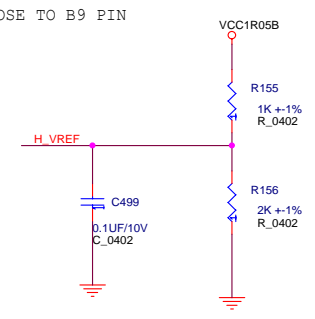
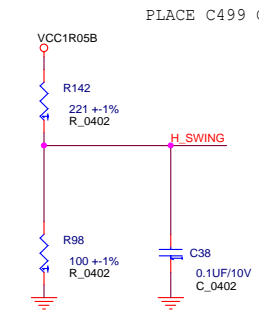
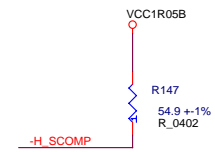
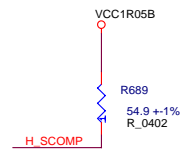
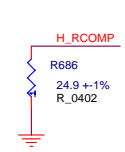
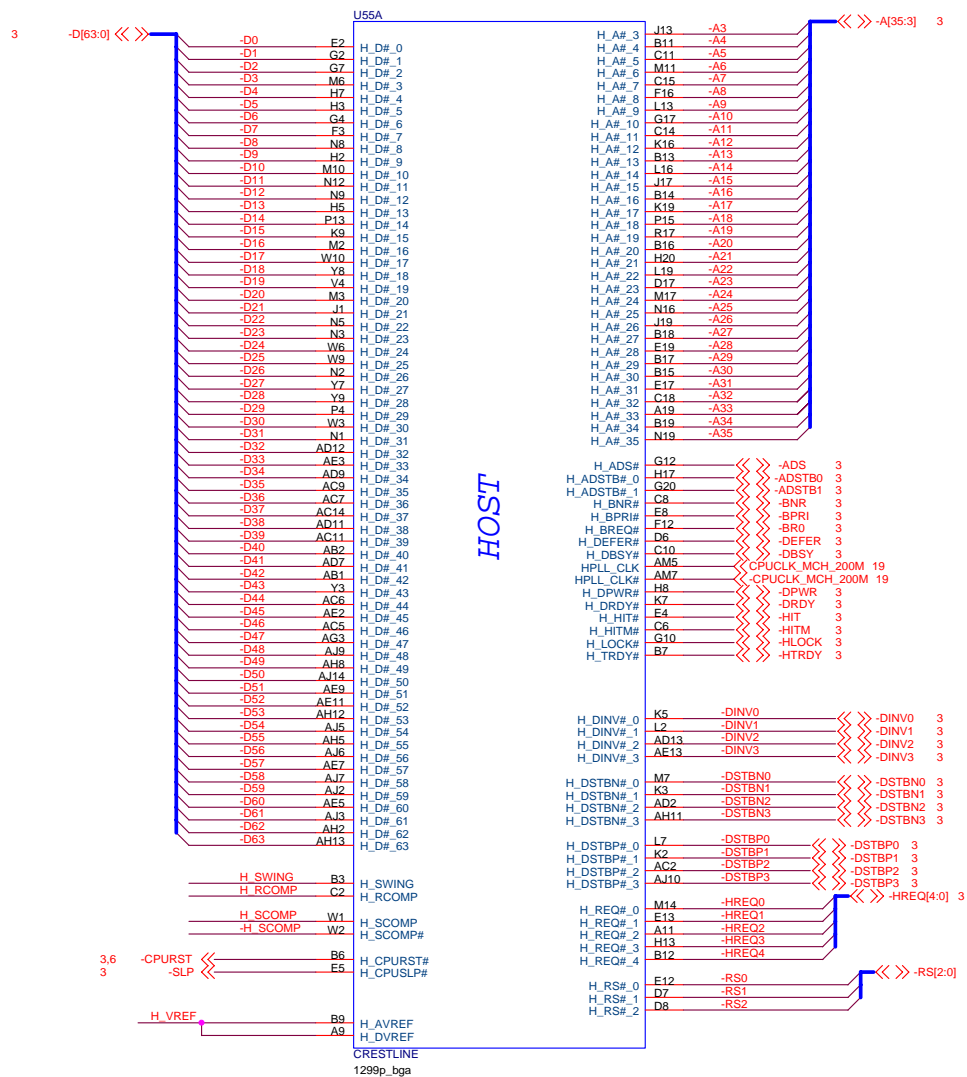




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		NB system design section	
Title			
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Size	Document Number		Rev s1.1
Custom	WAIKIKI		
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```
(*1) TCK SIGNAL IS BRANCHED AT YONAH PIN
(*2) -CPURST SIGNAL IS BRANCHED AT CRESTLINE PIN
```



PLACE C499 CLOSE TO B9 PIN

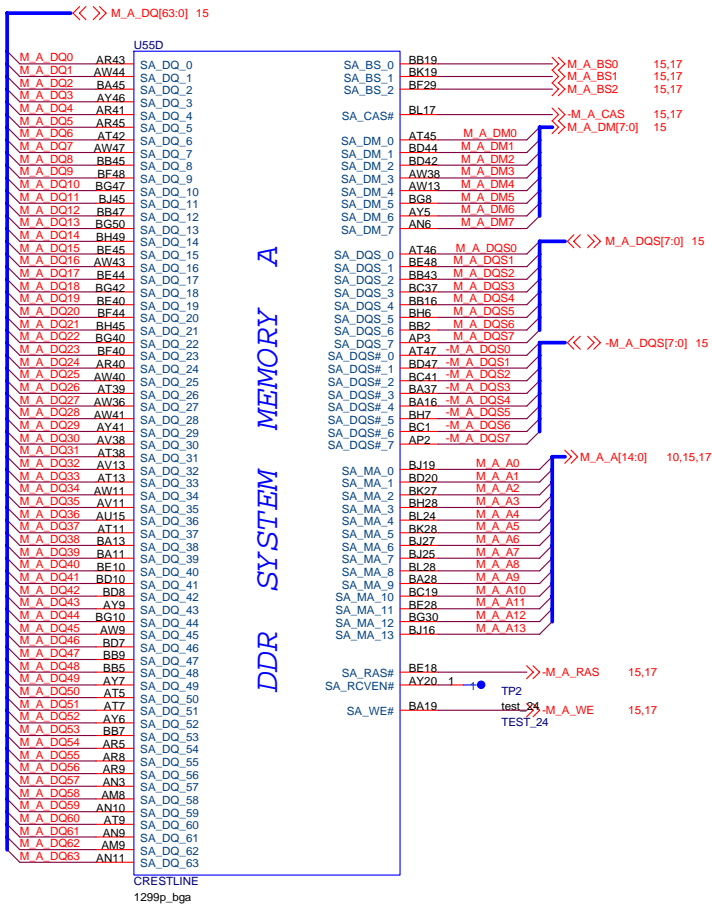
lenovo 联想 LENOVO.PND NB system design section

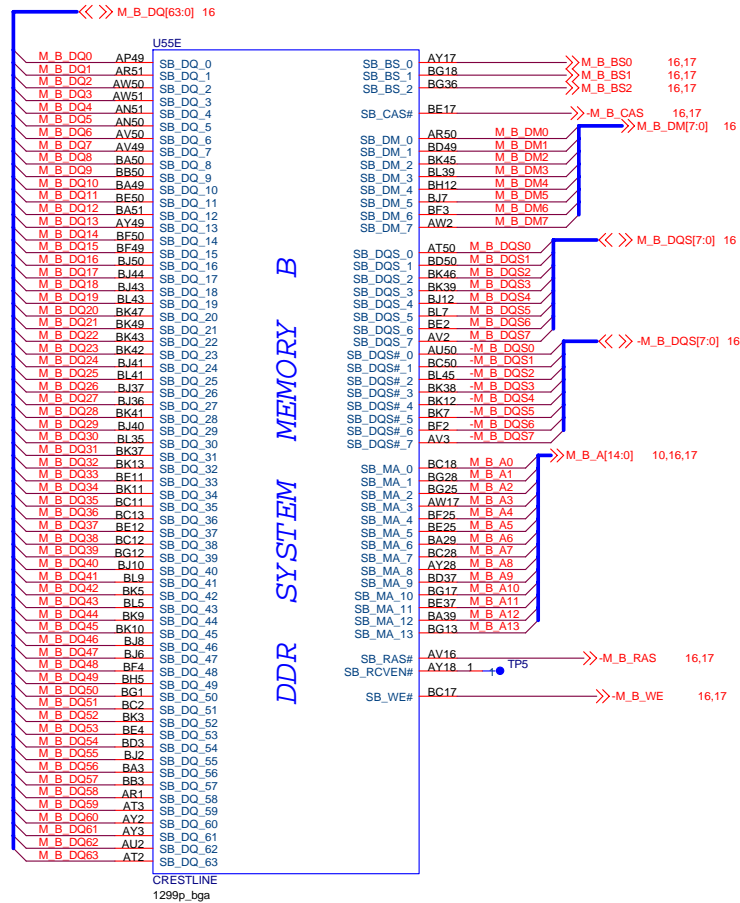
Title NB 965GM-1(HOST CFG)

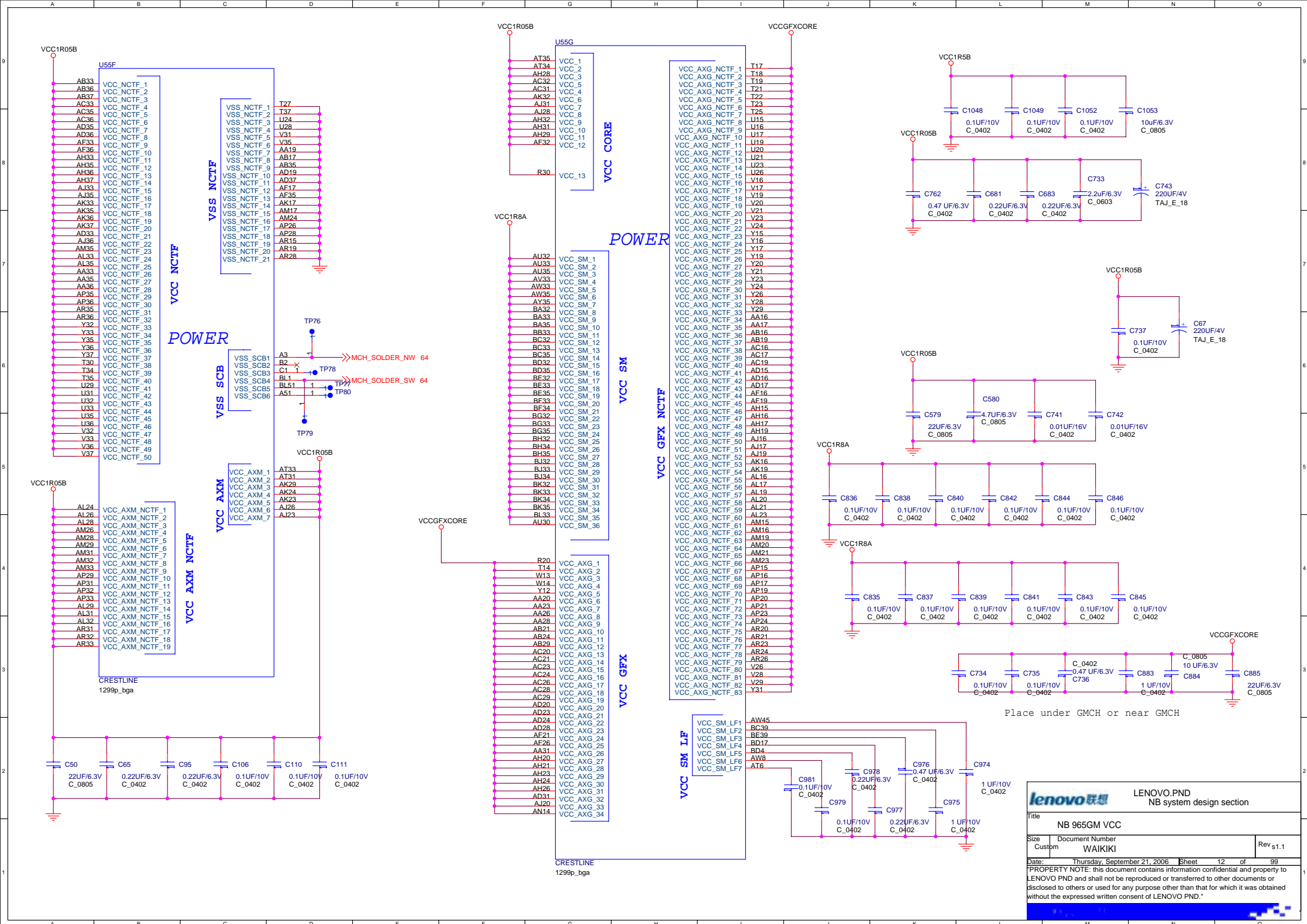
Size Custom Document Number WAIKIKI Rev s1.1

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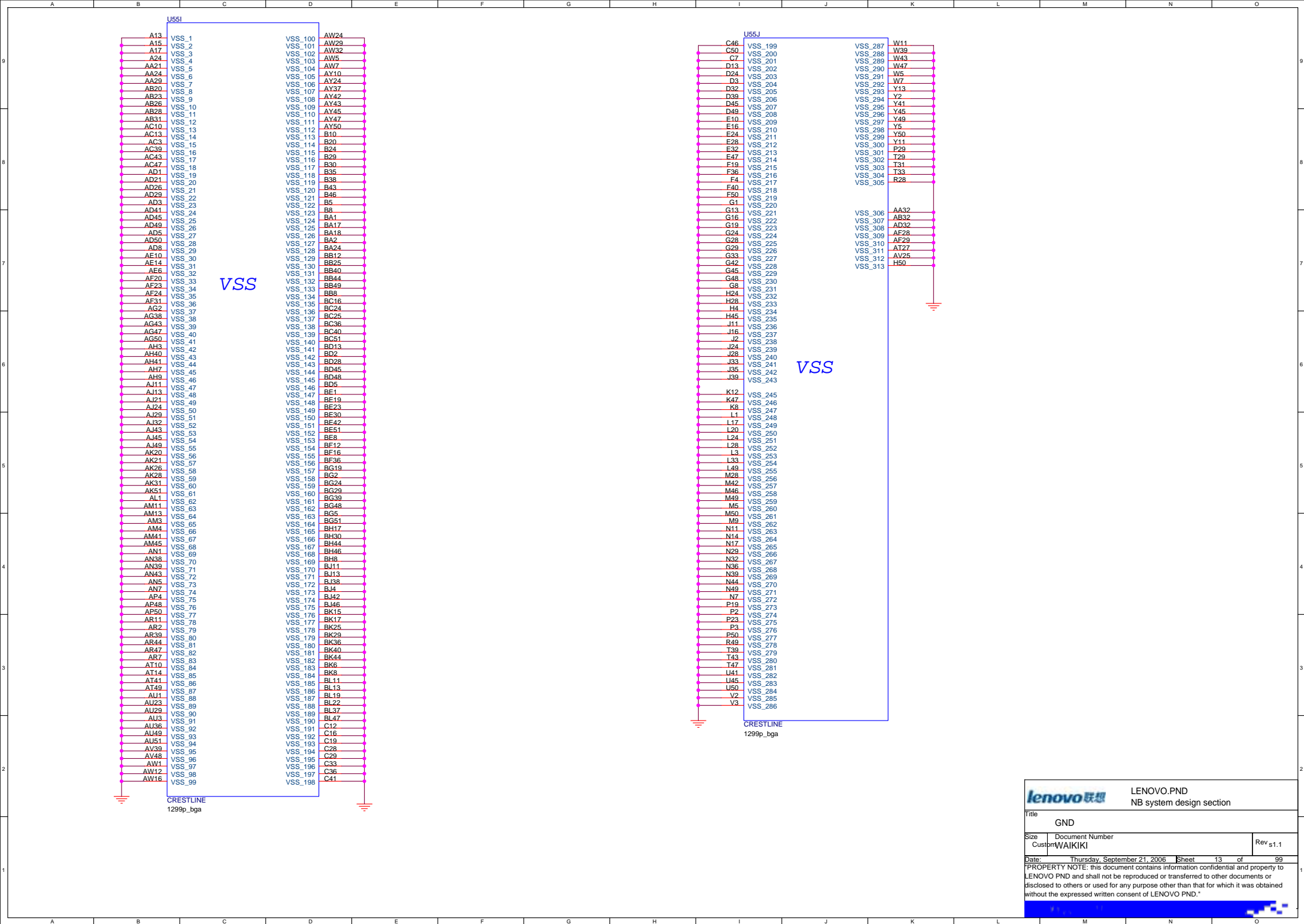


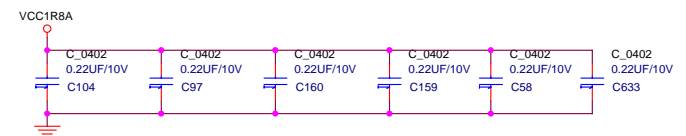
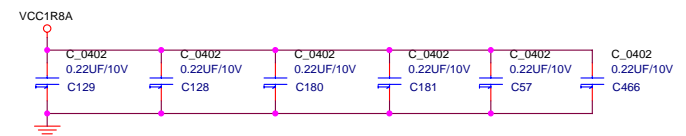
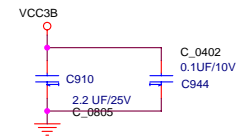
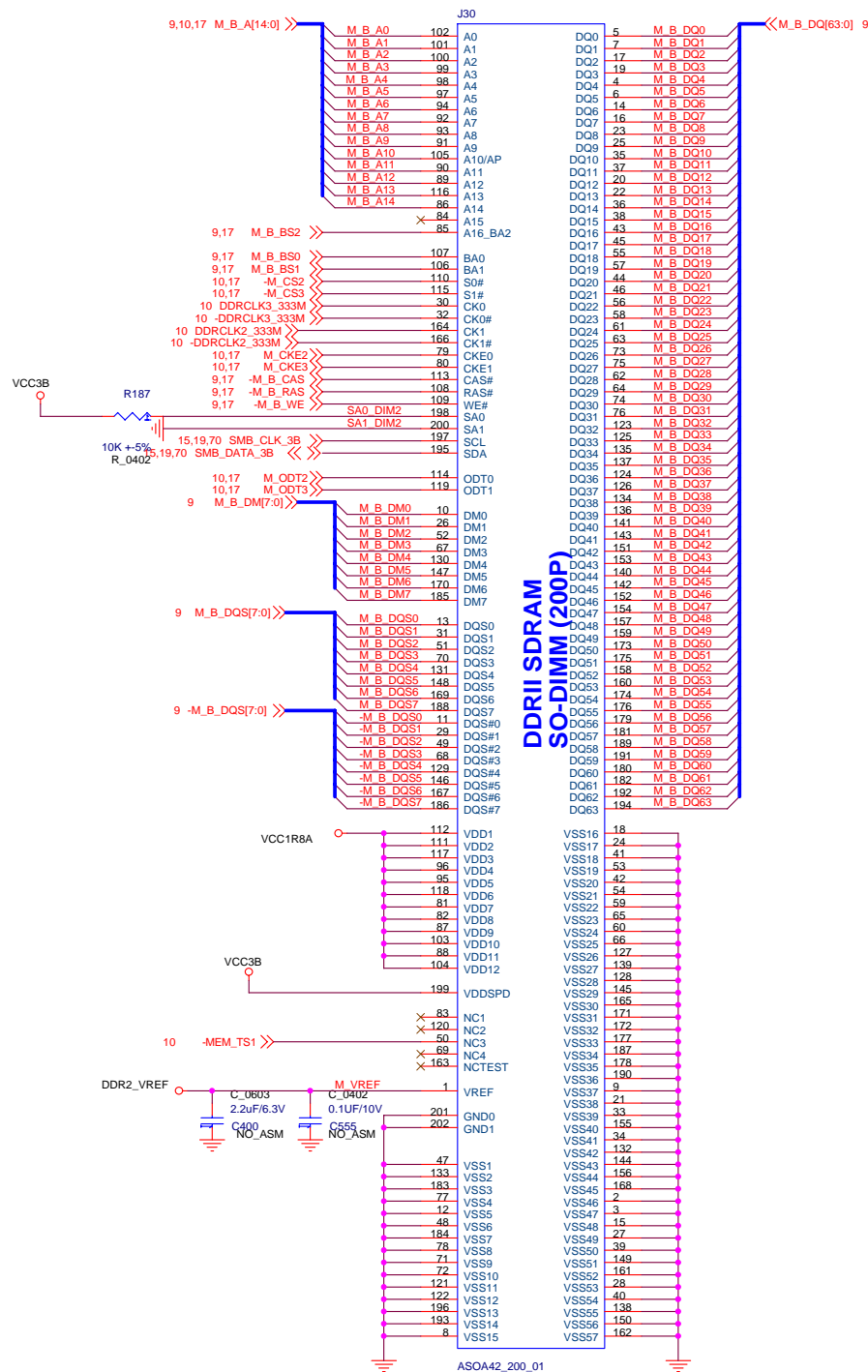
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NB system design section

Title			
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Size	Document Number	Rev	
Custom	WAIKIKI	s1.1	


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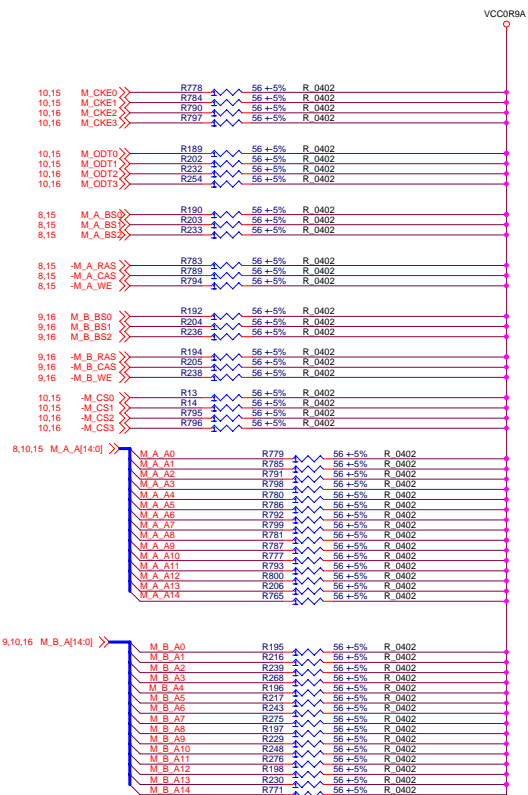
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Add two more 0.22uf/10v for VCC1R8A at J30

		LENOVO.PND NB system design section	
Title DDR II 2			
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NB system design section

Title

DDR2 TERMINATION

Size

C

Document Number

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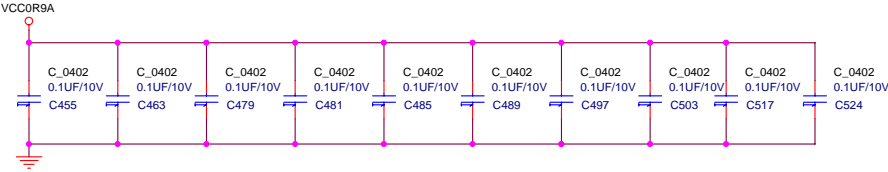
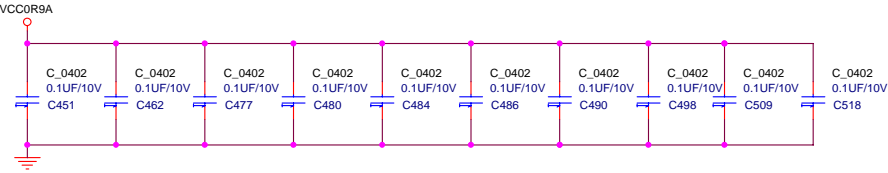
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PLACE 1 CAP FOR EVERY 2 BITS TERMINATED TO VCC0R9B.



 LENOVO.PND
NB system design section

Title
DDR2 DECOUPLING

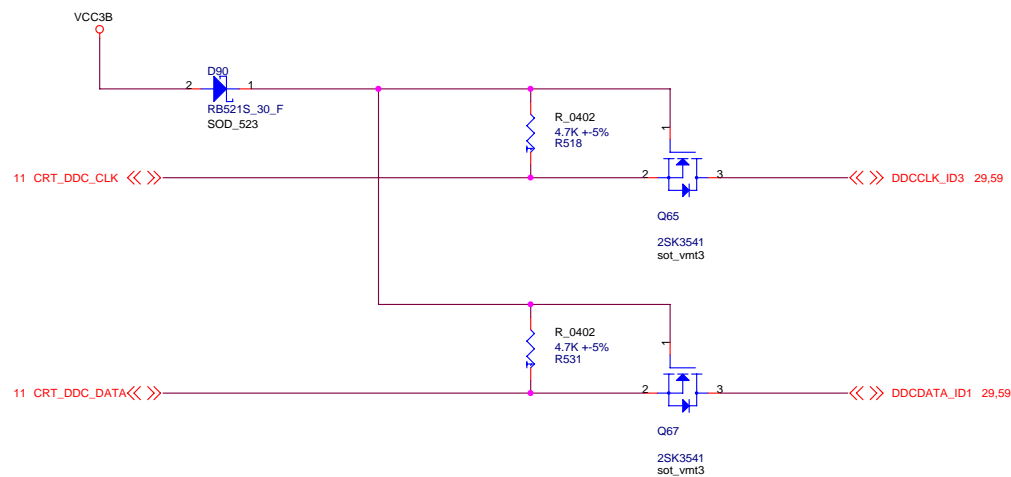
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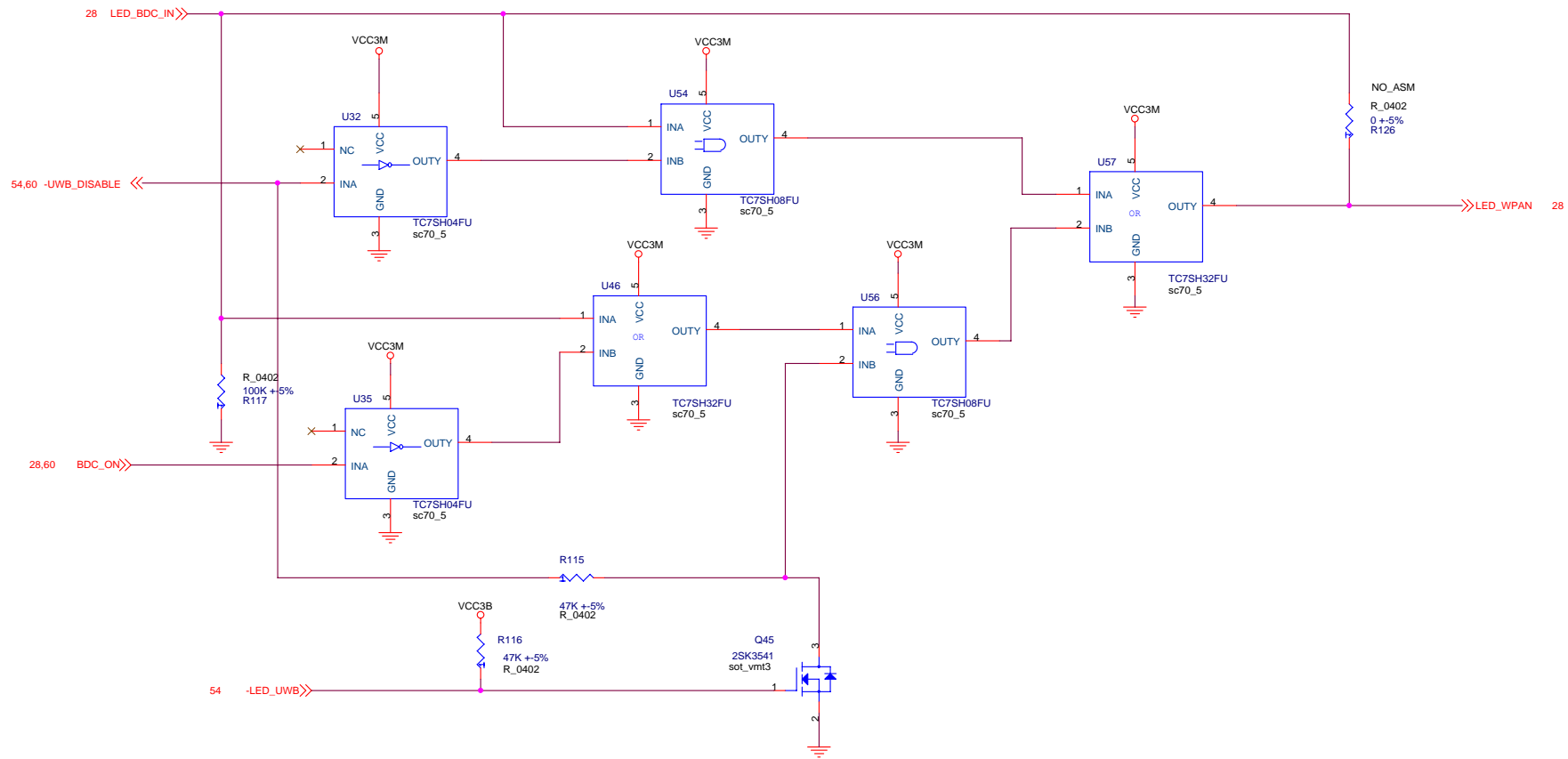
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Title CRT DDC CLK/DATA			
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Title			
WPAN LED CONTROL			
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Notice: Change LED to right-angle type.


XD D[7..0], -XD_RE, -XD_WE should be the same trace length
-XD_RE(SD_CLK and MS_CLK) need GND guard

lenovo 联想		LENOVO.PND	
Title		NB system design section	
DAV3_INTEG_SIV_W			
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Size

Document Number

Rev s

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1.1

Date:

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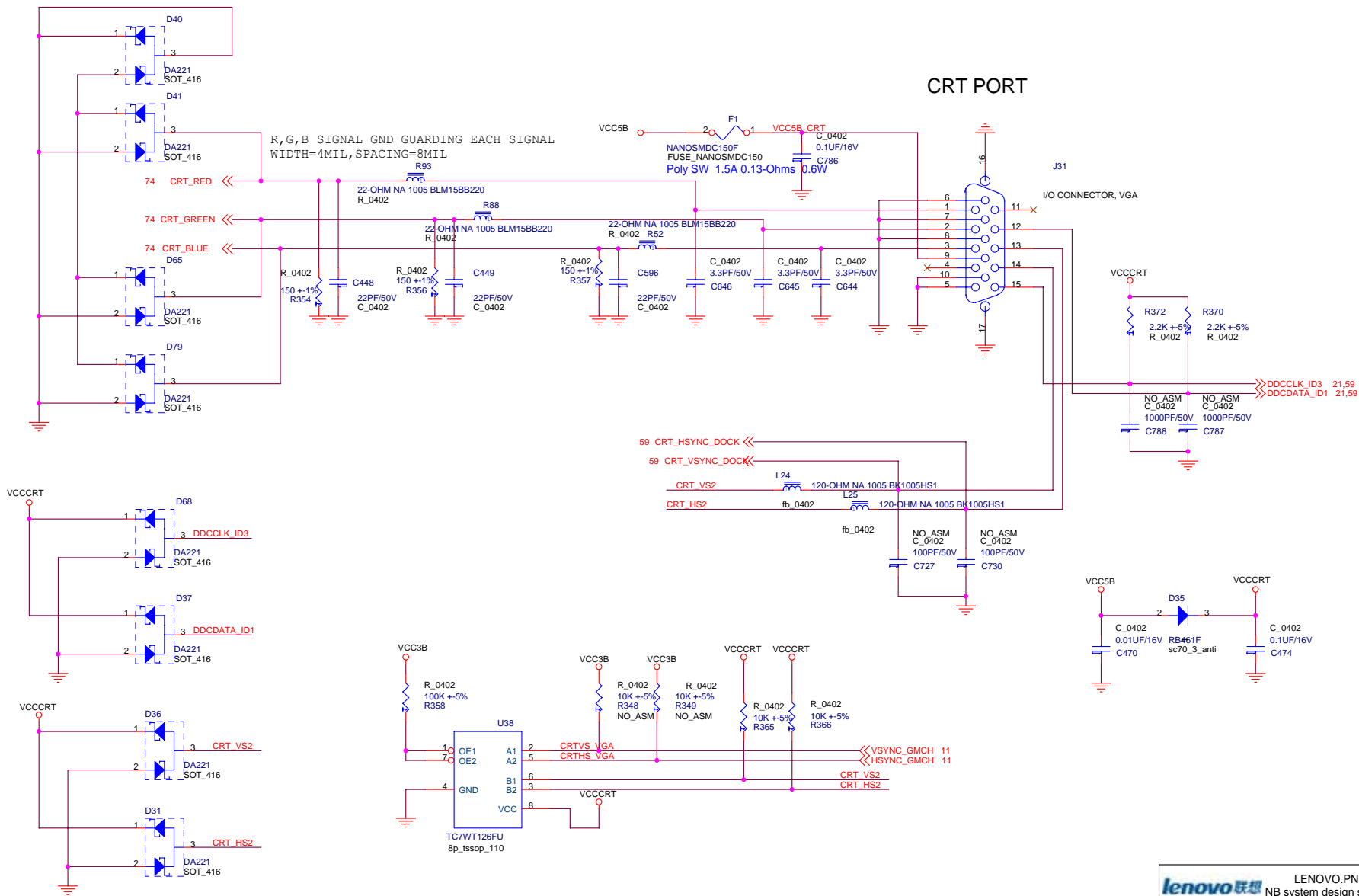



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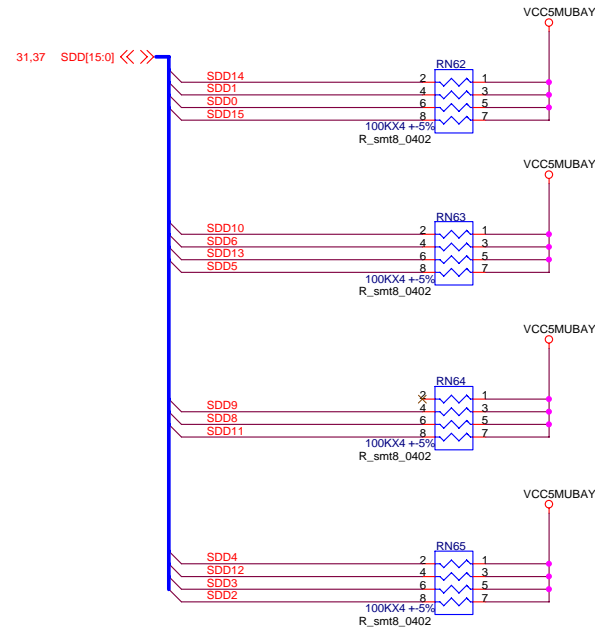
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Size	Document Number		Revisions
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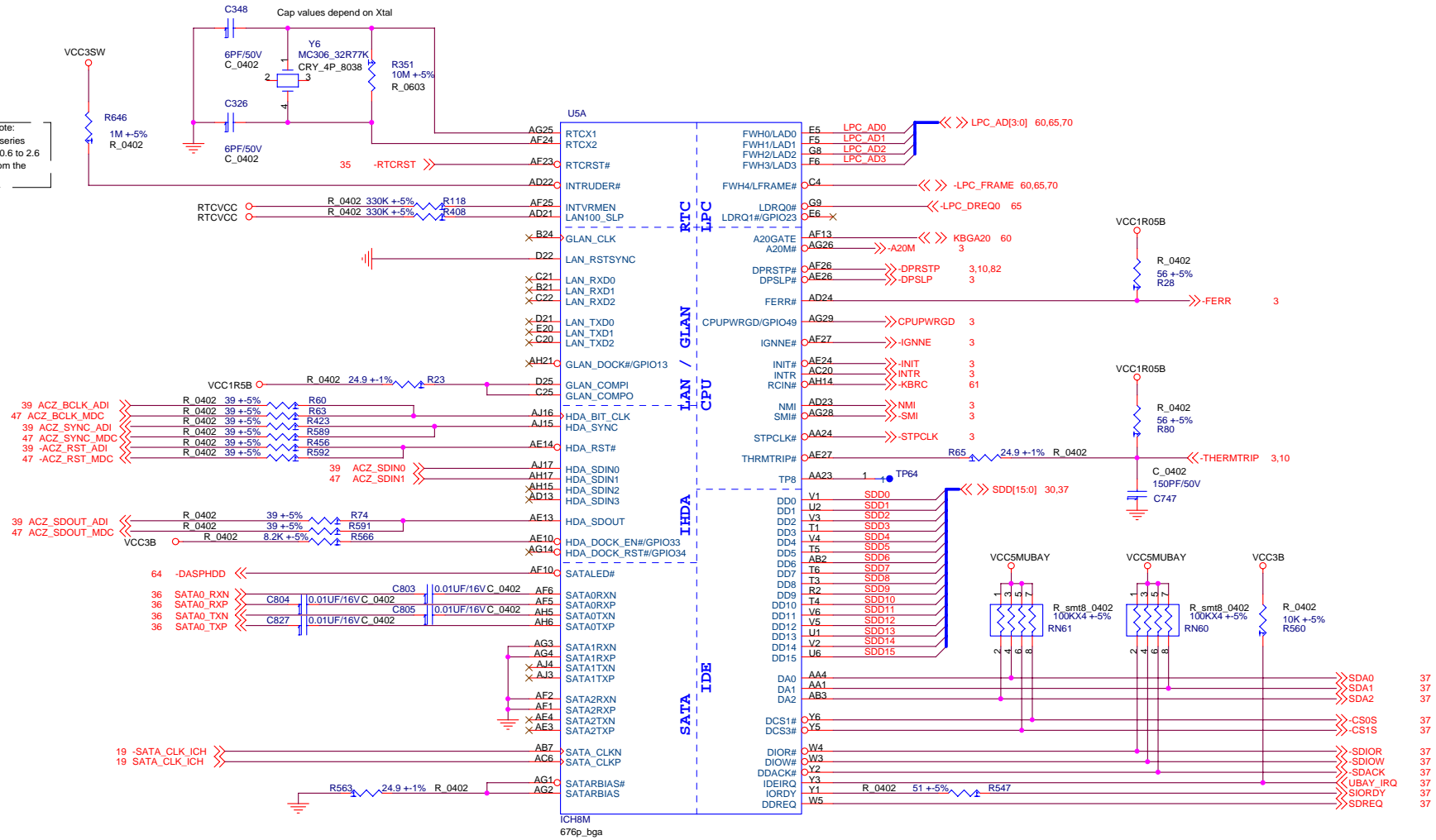
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NB system design section			
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Size	Document Number		Rev's 1.1
Custom	WAIKIKI		
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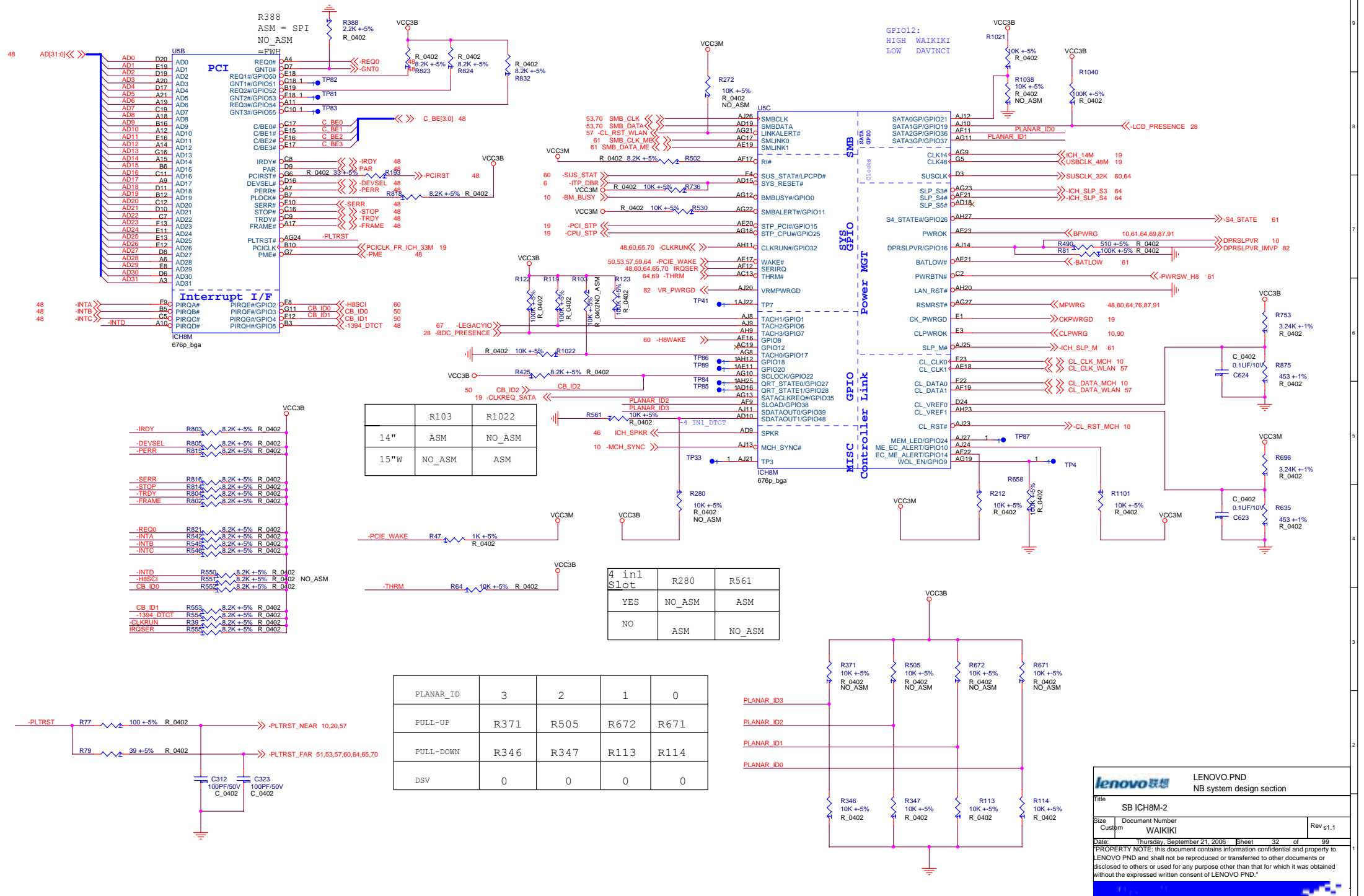
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		NB system design section	
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PATA I/F PU			
Size	Document Number		Rev s1.1
Custom	WAIKIKI		
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Consider VCCRTC sources

Layout Note:
Place all series
resistors 0.6 to 2.6
inches from the
ICH




lenovo联想		LENOVO.PND NB system design section	
Title SB ICH8M-1			
Size Custom	Document Number WAIKIKI	Rev s1.1	
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	R103	R1022
14"	ASM	NO_ASM
15"W	NO_ASM	ASM

4 in1 Slot	R280	R561
YES	NO_ASM	ASM
NO	ASM	NO_ASM

PLANAR_ID	3	2	1	0
PULL-UP	R371	R505	R672	R671
PULL-DOWN	R346	R347	R113	R114
DSV	0	0	0	0

 LENOVO.PND
NB system design section

File

SB ICH8M-2

Size

Custom

Document Number

WAIKIKI

Rev

s1.1

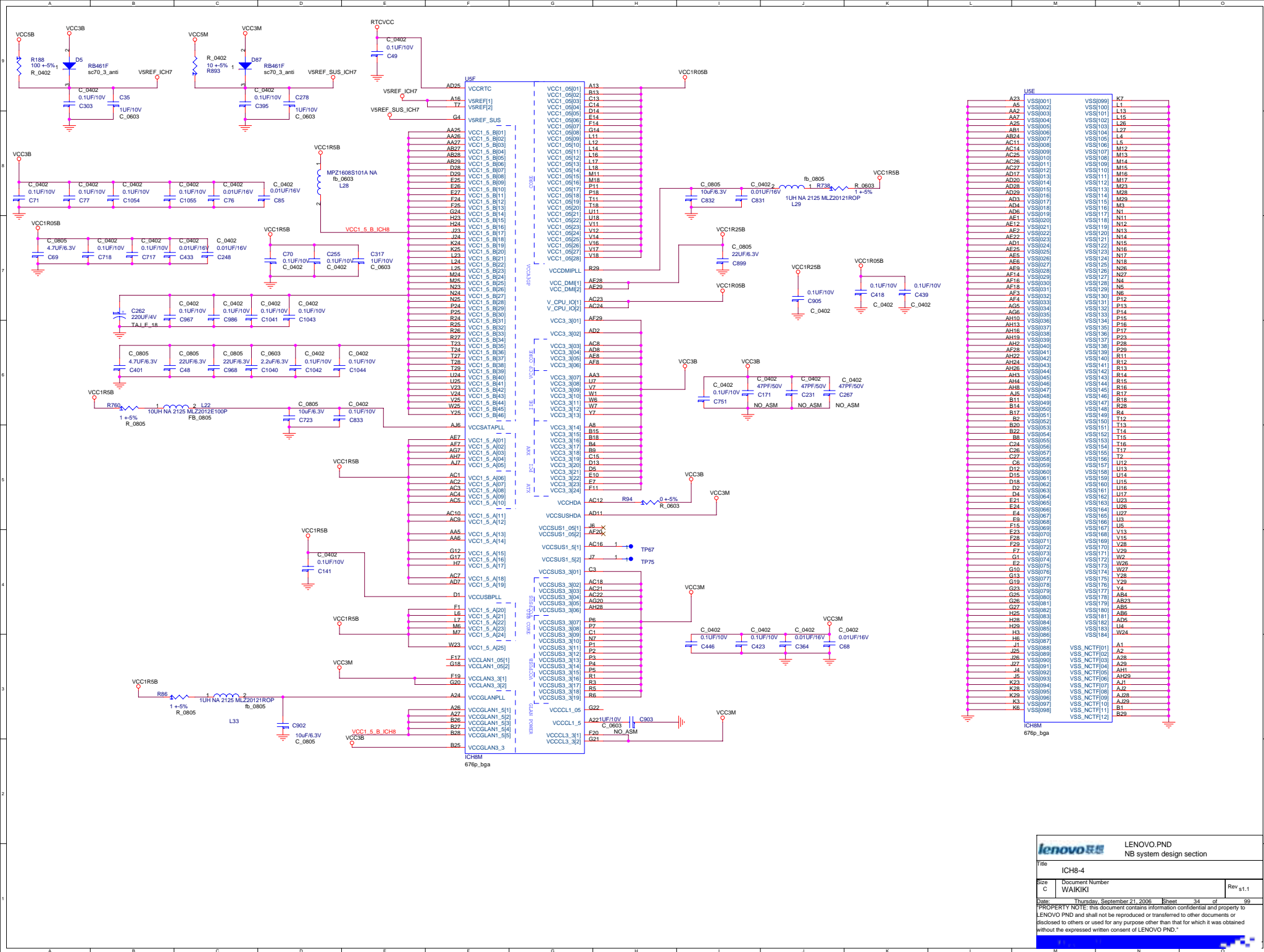
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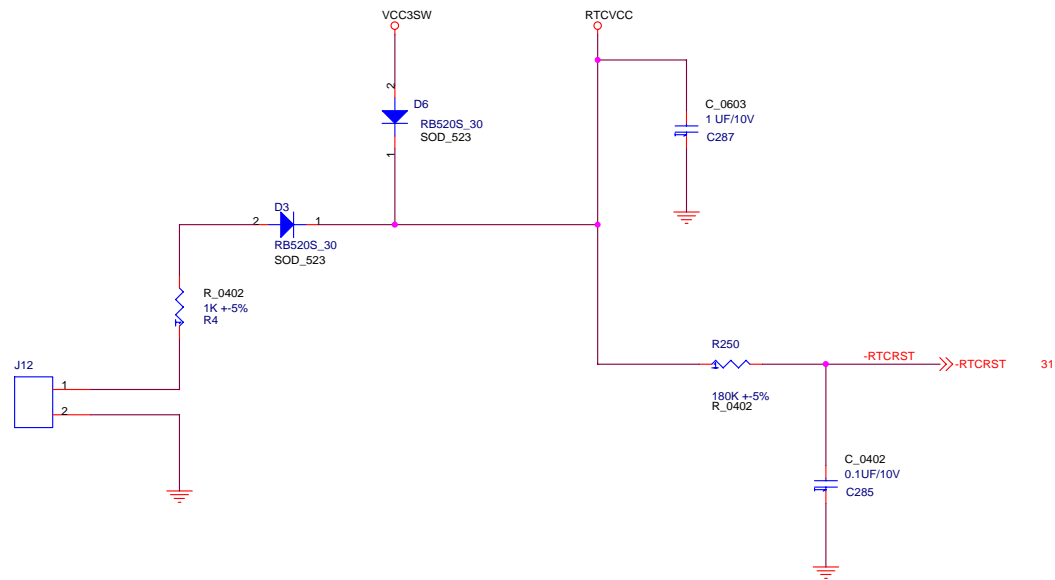
Thursday, September 21, 2006



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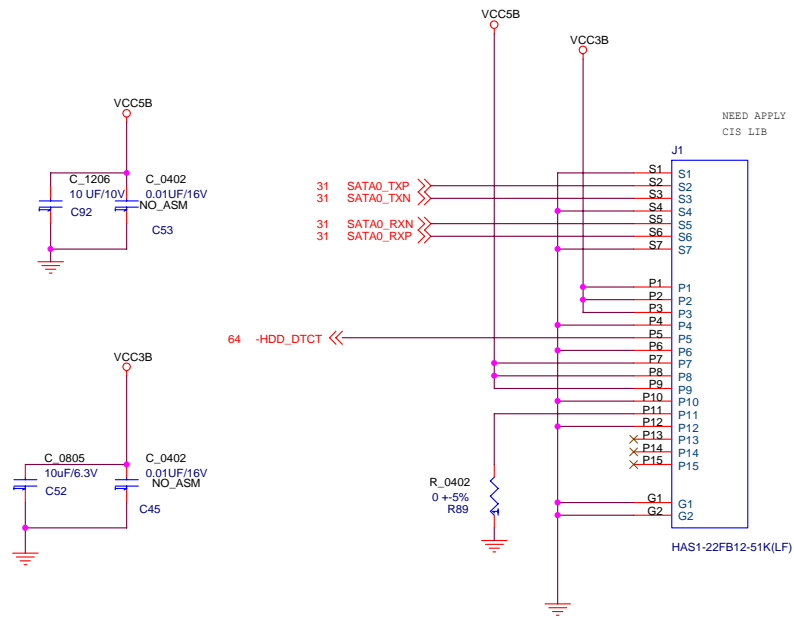
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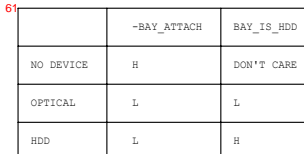
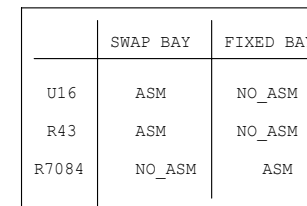


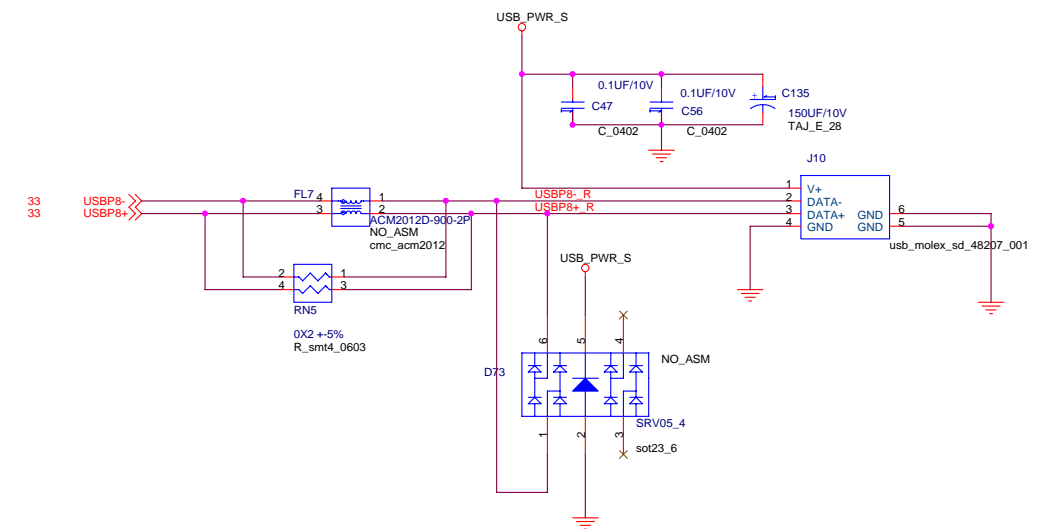
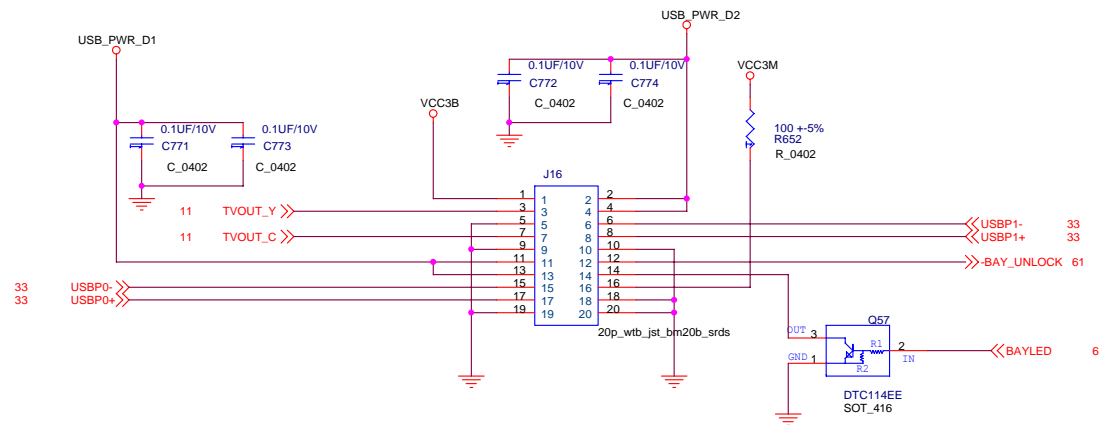


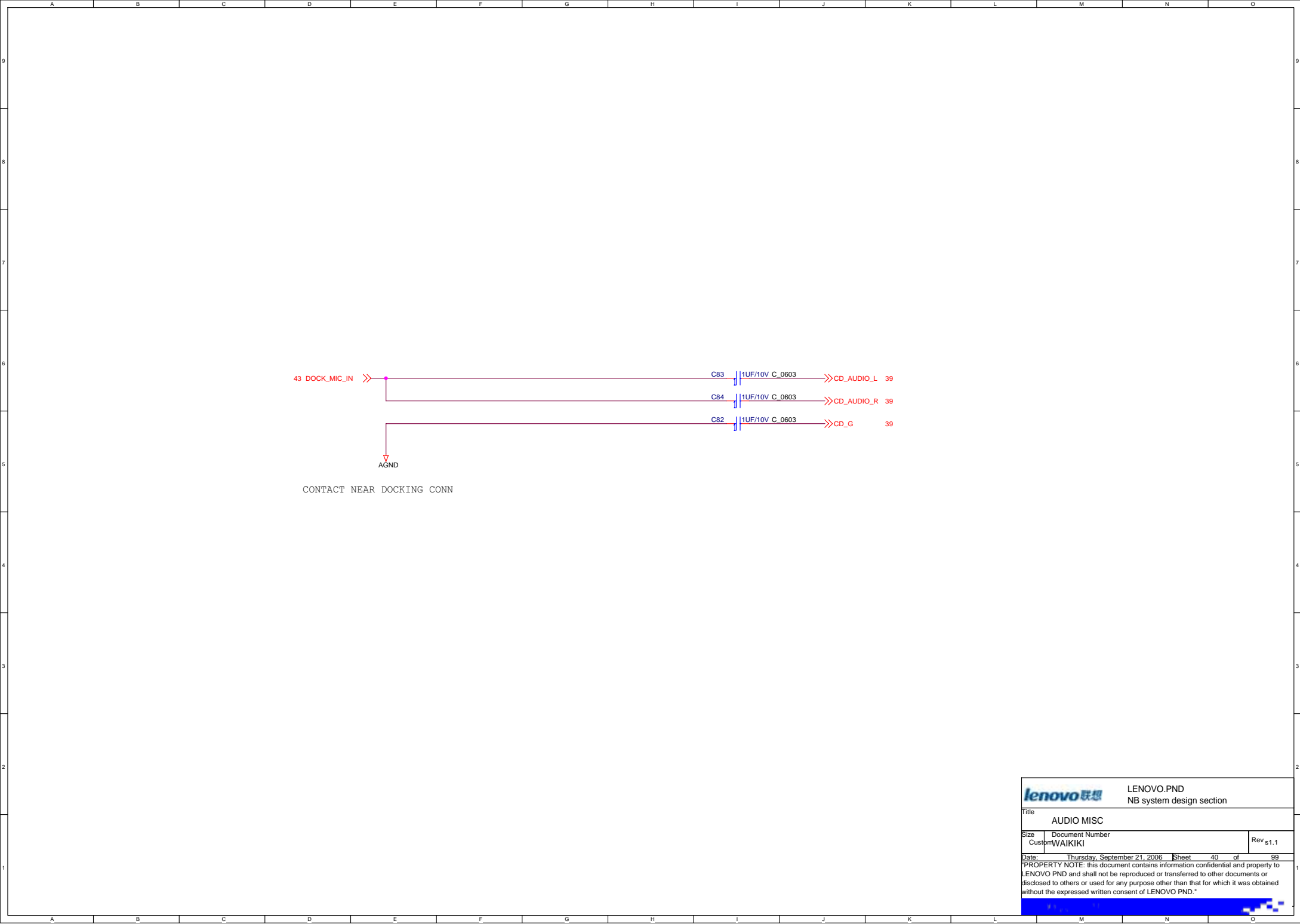
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		NB system design section	
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FWH,RTC BATTERY			
Size	Document Number		Rev's1.1
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		LENOVO.PND NB system design section	
Title SATA HDD CONN			
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 LENOVO.PND
NB system design section

Title

AUDIO MISC

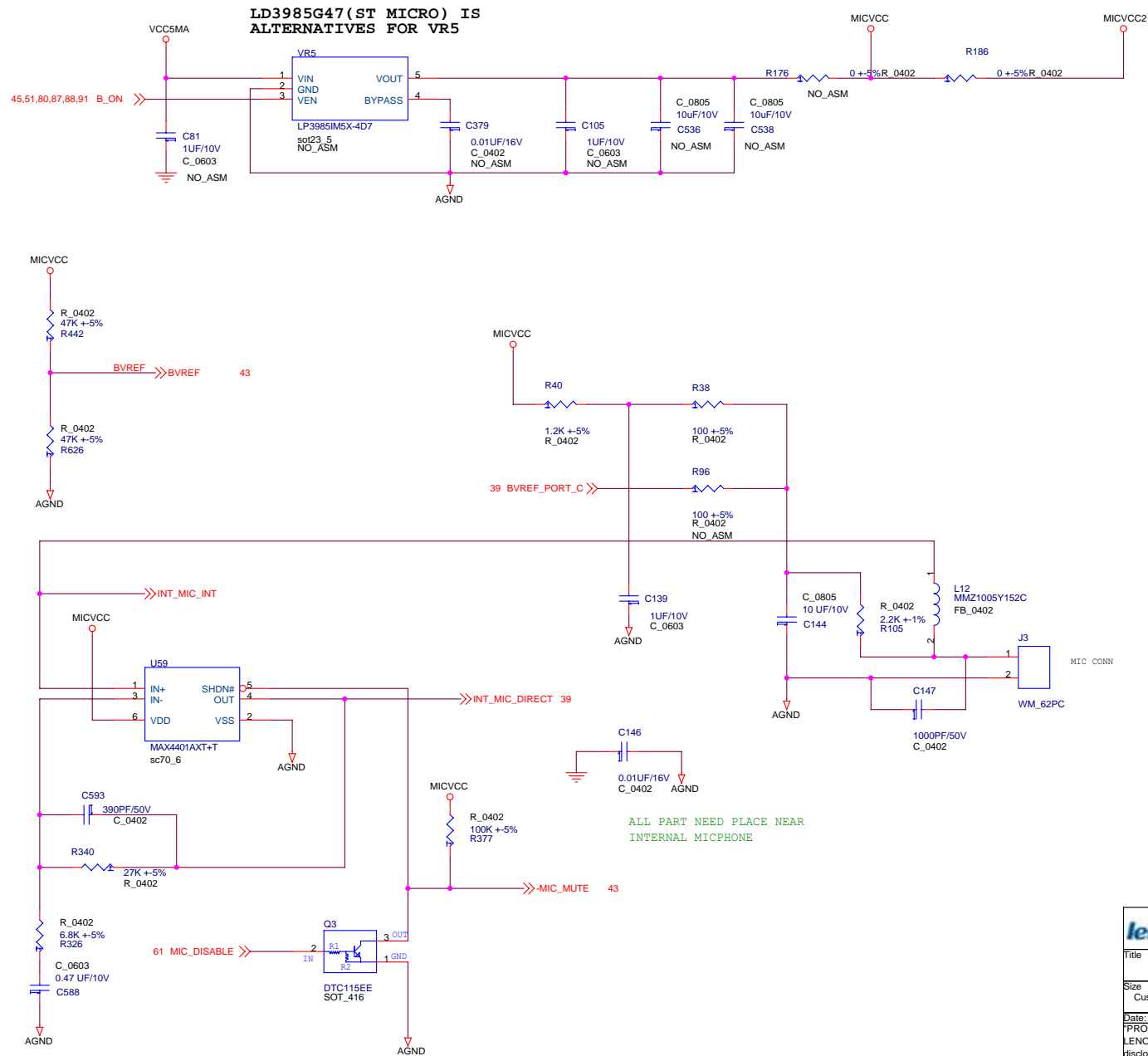
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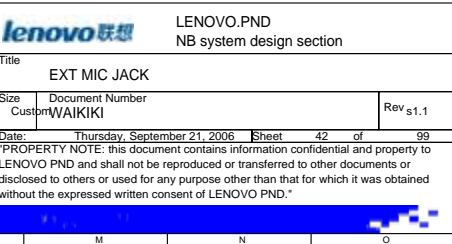
Rev s1.1

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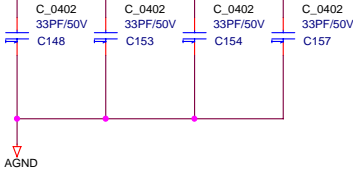
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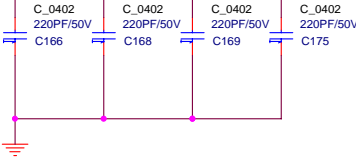
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		NB system design section	
Title			
AUDIO INT MIC			
Size	Document Number		Rev s1.1
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45 SP_OUTR-
45 SP_OUTR+
45 SP_OUTL-
45 SP_OUTL+



PLACE NEAR SPEAKER AMPLIFIER



PLACE NEAR SPEAKER CONNECTOR



LENOVO.PND
NB system design section

Title
AUDIO SPEAKER

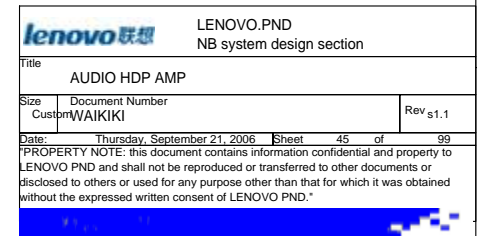
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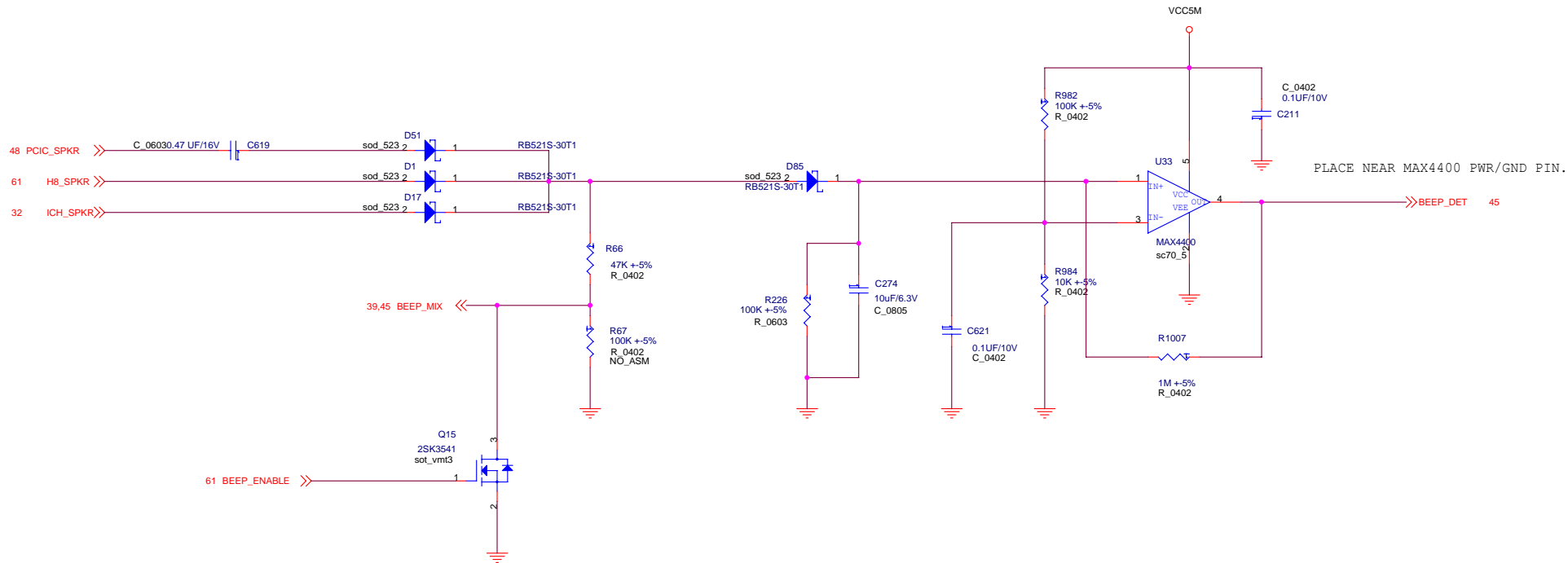
Date: Thursday, September 21, 2006

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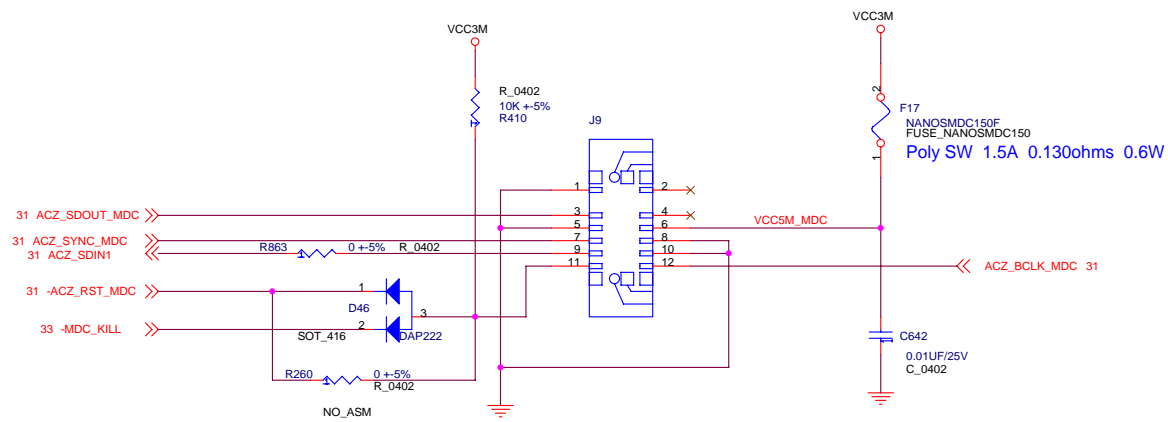
Revisions 1.1



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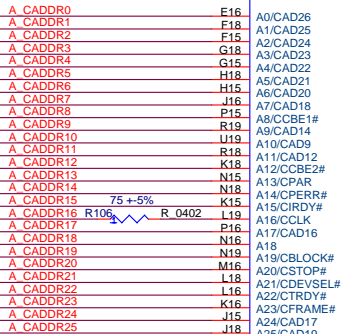


		LENOVO.PND NB system design section	
Title AUDIO HDP BEEP			
Size Custom	Document Number WAIKIKI		Rev s1.1
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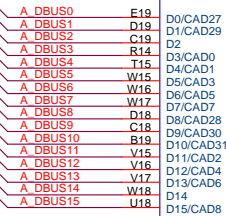


 联想		LENOVO.PND NB system design section	
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50_A_CADDR[25:0] <<

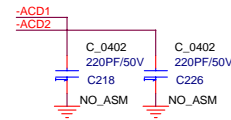
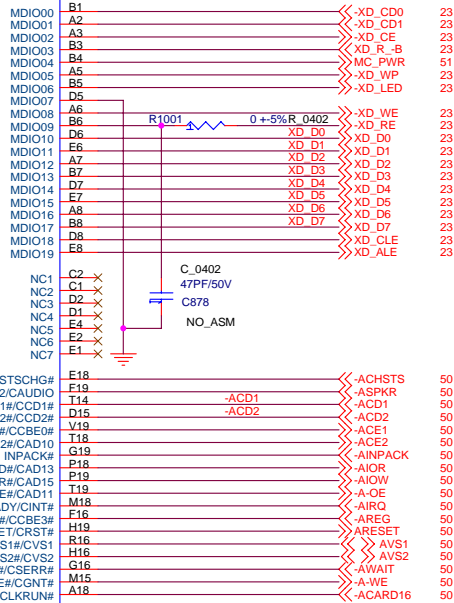


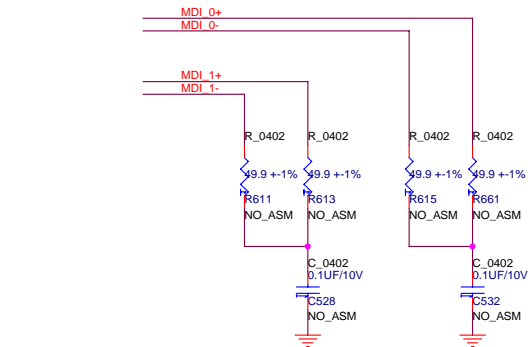
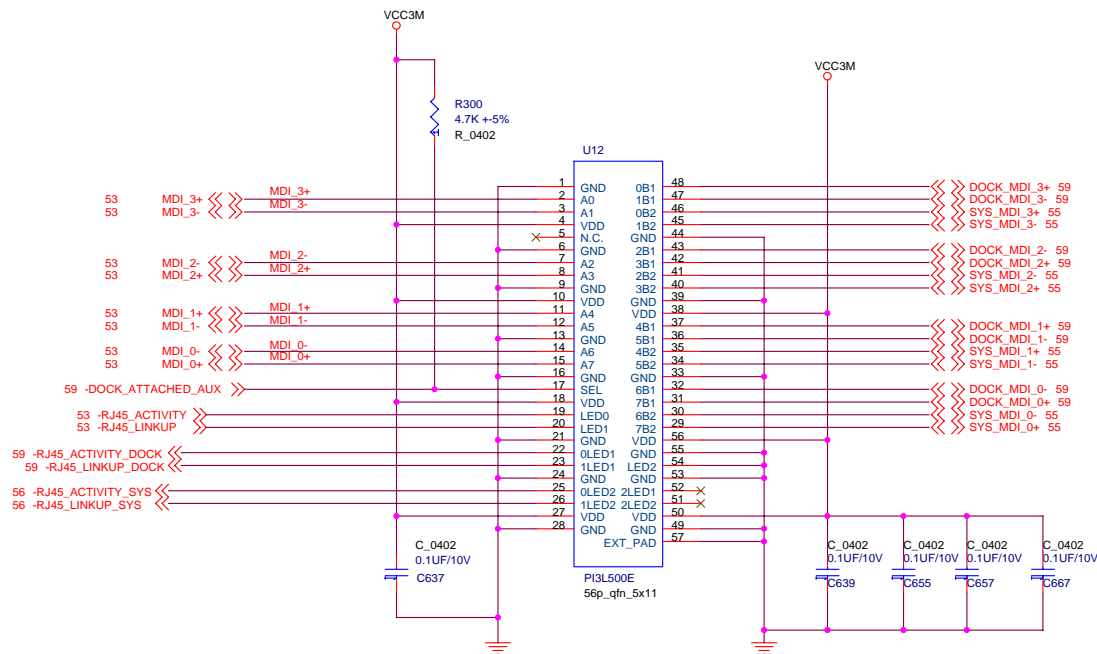
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R5C847 (2/2)

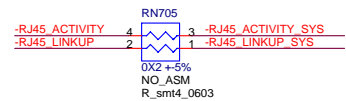
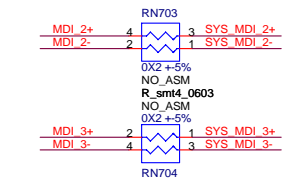
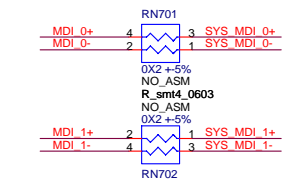
R5C847
208p_bga_16x16





Place all parts close to U7002.
Trace very shortly so that the termination can be NO_ASM.
Do not install RC as the 5787(M) has on-chip RC terminations.

	DOCK	NO DOCK
U12	ASM	NO_ASM
C639	ASM	NO_ASM
C655	ASM	NO_ASM
C657	ASM	NO_ASM
C667	ASM	NO_ASM
R300	ASM	NO_ASM
RN701	NO_ASM	ASM
RN702	NO_ASM	ASM
RN703	NO_ASM	ASM
RN704	NO_ASM	ASM
RN705	NO_ASM	ASM
C637	ASM	NO_ASM



LENOVO.PND

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GBE LAN SW

Size

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Thursday, September 21, 2006

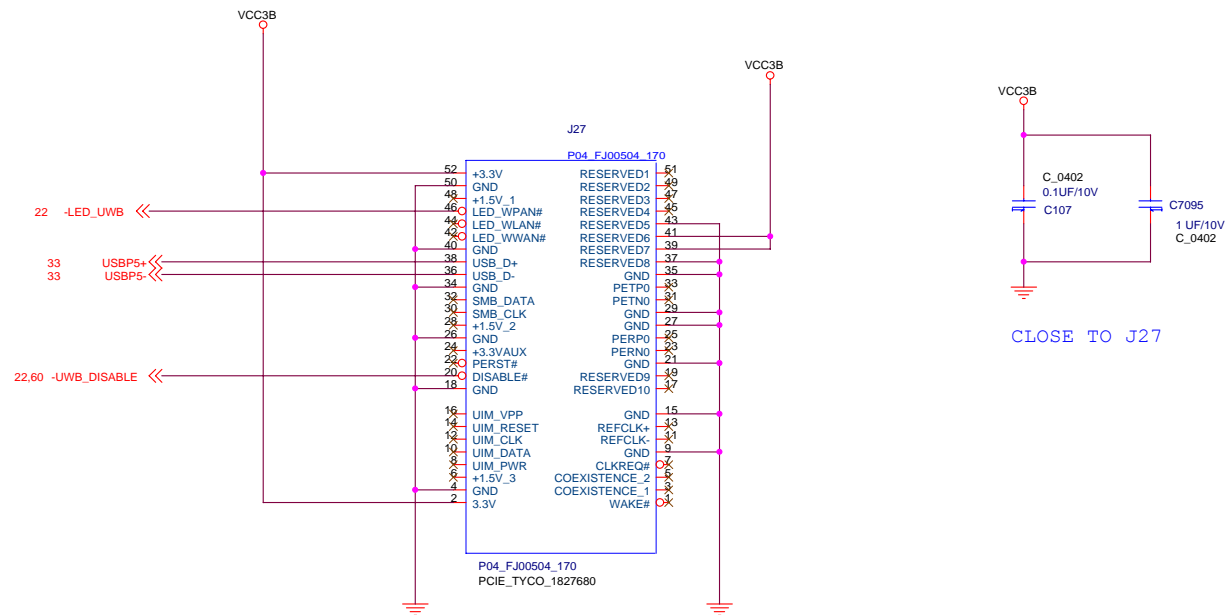
Sheet



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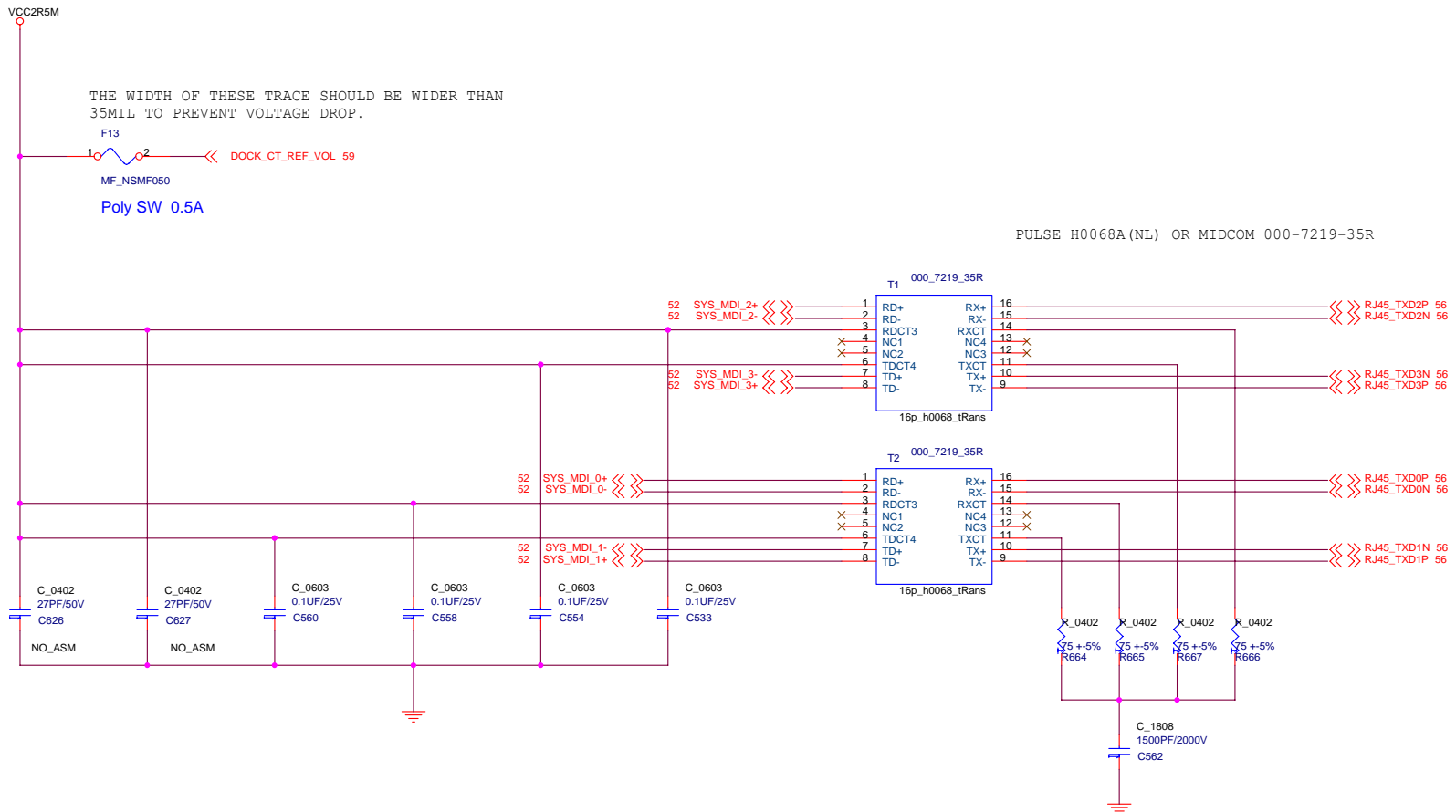
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MICRO PCIE CONN			
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NB system design section

Title

GBE MAGNETICS

Size

Document Number

Rev s1.1

Customer

WAIKIKI

Date:

Thursday, September 21, 2006

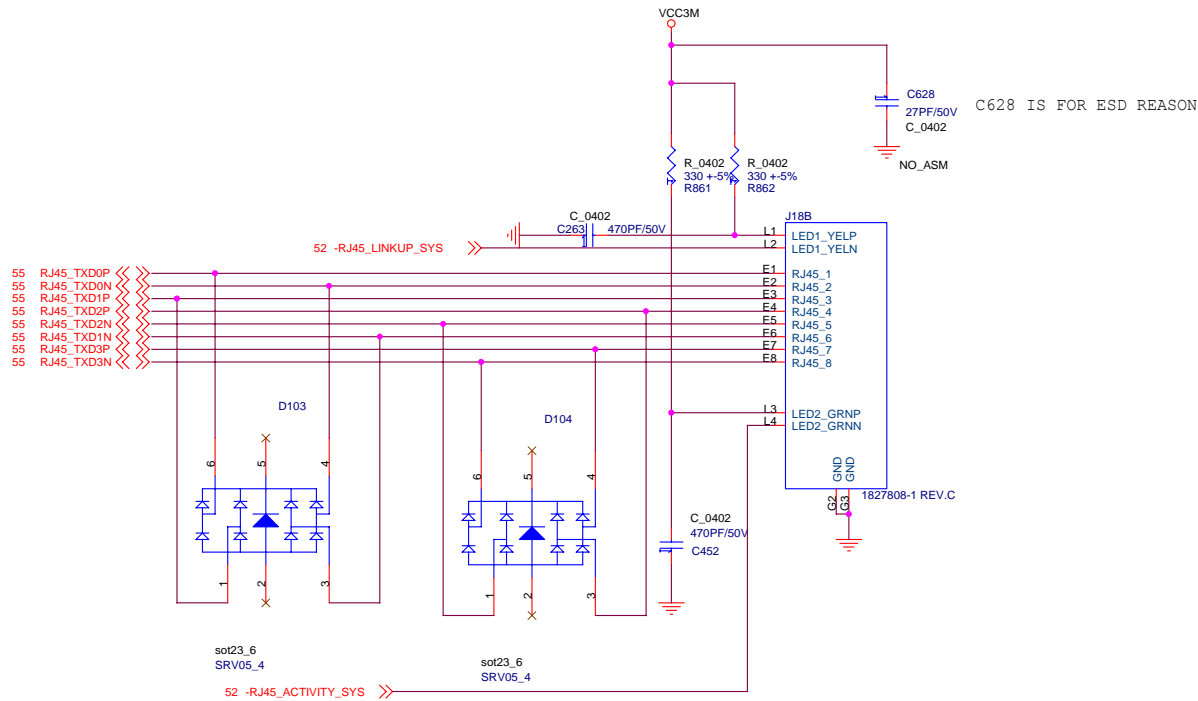
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	DOCK	NO DOCK
J11	ASM	NO_ASM

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LENOVO.PND

NB system design section

Title

RJ45 CONN

Size

Document Number

Rev s1.1

Date:

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Sheet

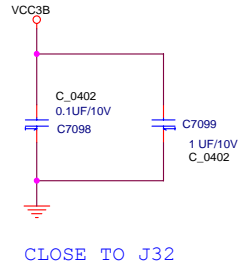
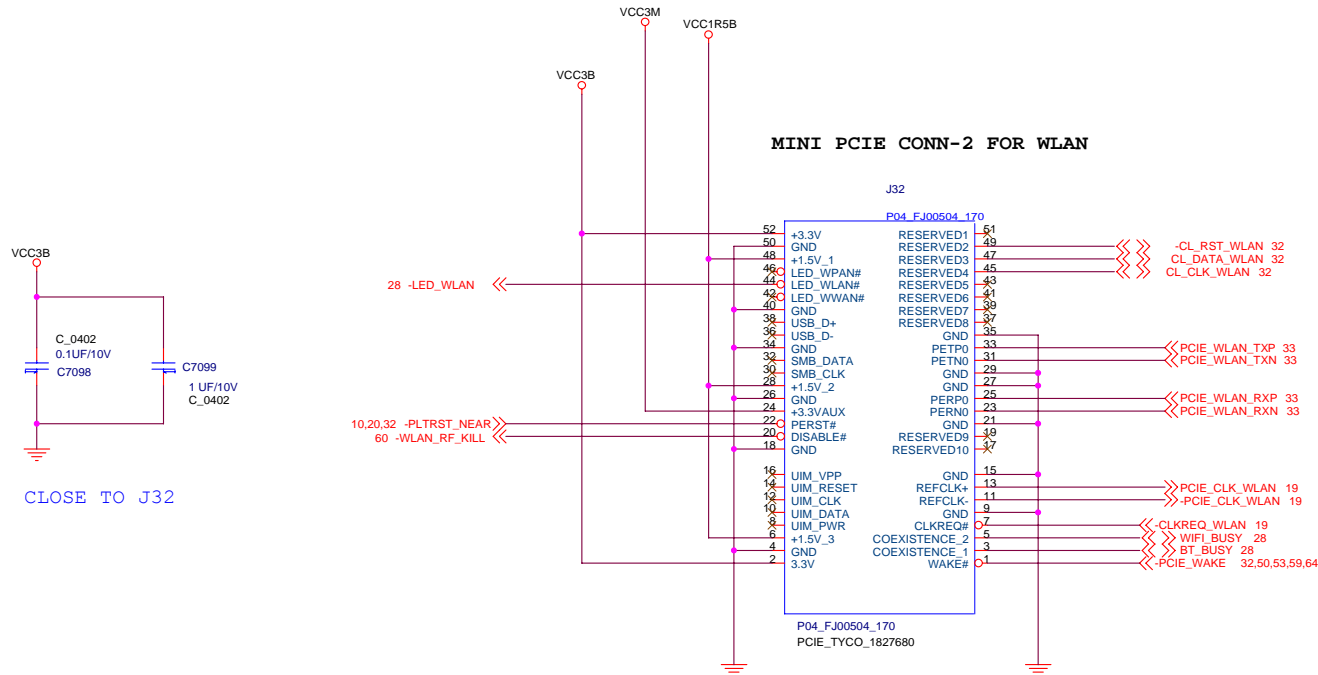
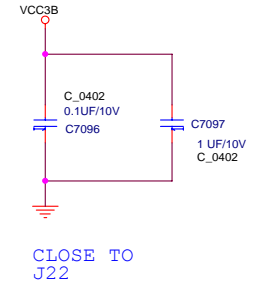
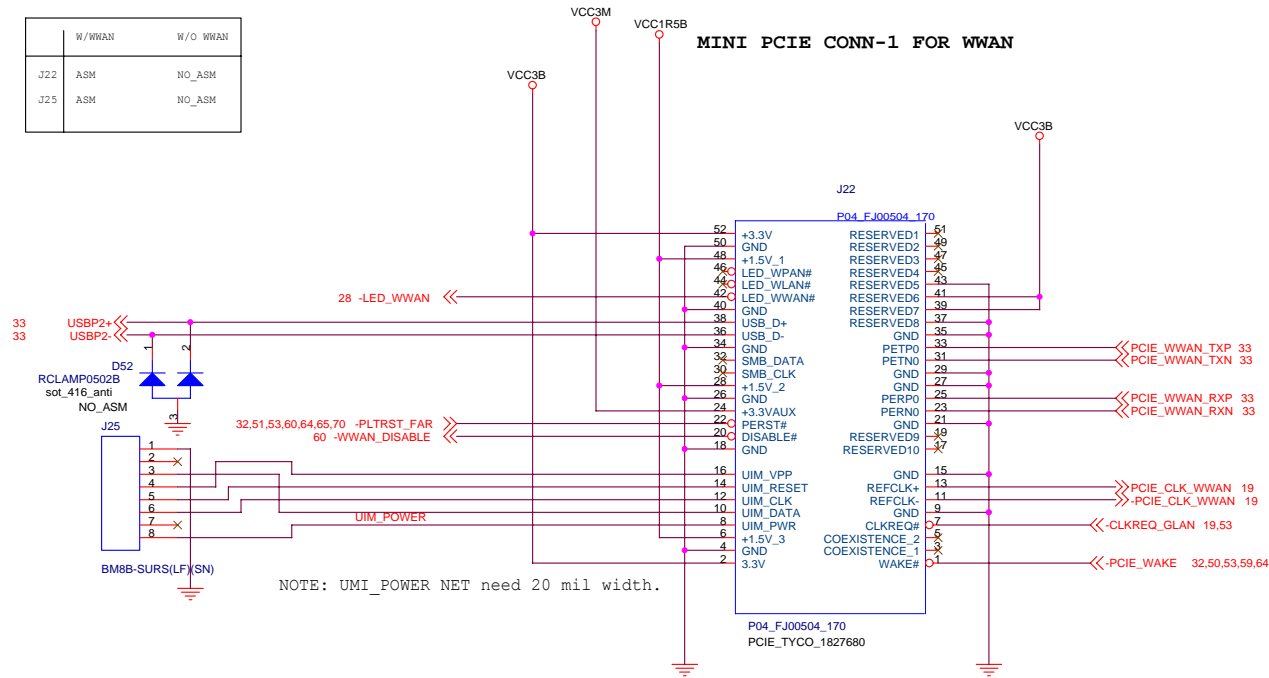
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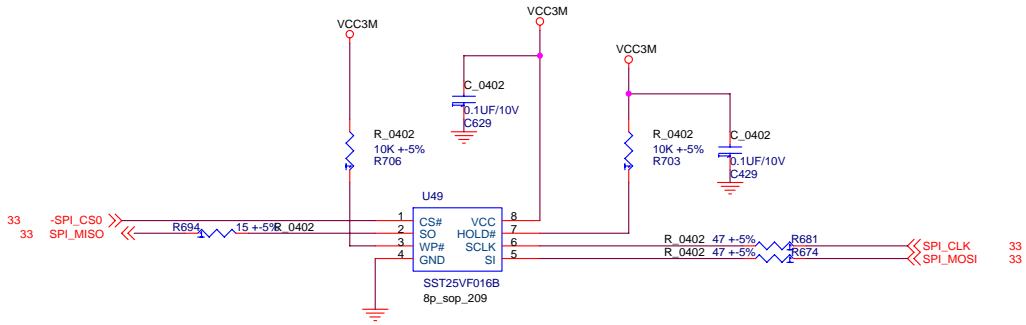
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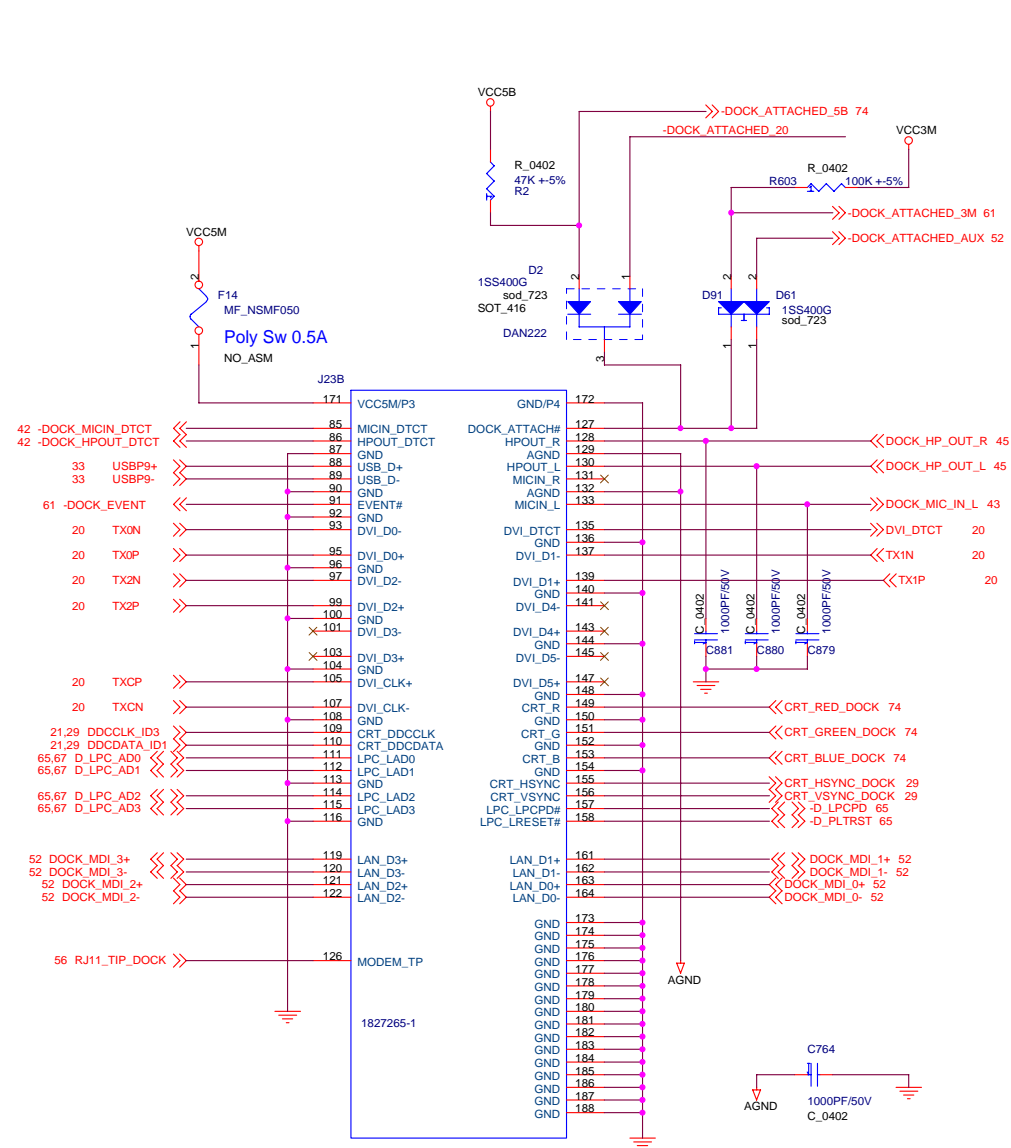
	W/WWAN	W/O WWAN
J22	ASM	NO_ASM
J25	ASM	NO_ASM



		LENOVO.PND	
		NB system design section	
Title			
MINI PCIE SLOT(WWAN/WLAN)			
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Timing diagram showing the relationship between TXCP, TX0P, TX1P, and TX2P signals. The signals are shown as pulses with a delay between the red and blue traces.

Signal	Red Trace Value	Blue Trace Value
TXCP	R763	R_0402 NO_ASM, 330 +5%
TX0P	R841	R_0402 NO_ASM, 330 +5%
TX1P	R844	R_0402 NO_ASM, 330 +5%
TX2P	R845	R_0402 NO_ASM, 330 +5%

59 DOCK_SCL
59 DOCK_SDA
78 I2C_DATA_BT1
78 I2C_CLK_BT1
78 I2C_DATA_BT0
78 I2C_CLK_BT0

59.62 XKBDCLK
59.62 XKBDATA
59.62 MCLK
59.62 MSDATA
63 IPDCLK
63 IPDDATA

78 I2C_CLK_BT0
78 I2C_DATA_BT0
78 I2C_CLK_BT1
78 I2C_DATA_BT1

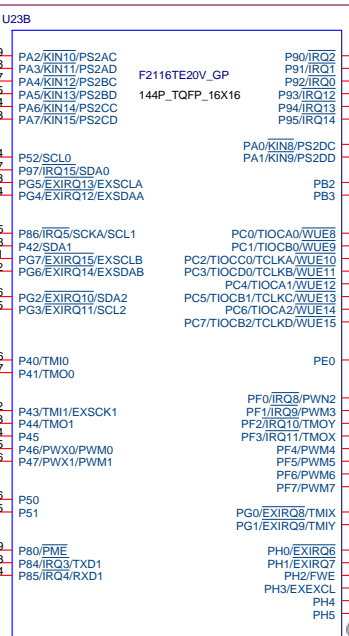
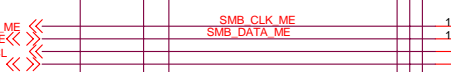
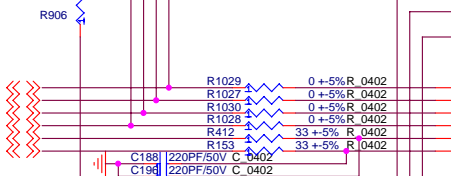
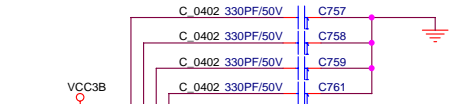
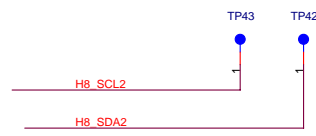
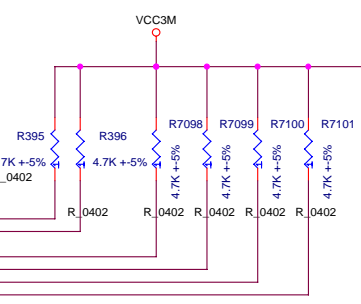
32 SMB_CLK_ME
32 SMB_DATA_ME
59 DOCK_SCL
59 DOCK_SDA

31 -KBRC
46 H8_SPKR

32 -BATLOW
71 FAN_ON
79 BATMON_EN
46 BEEP_ENABLE
32 -S4_STATE

59 DOCK_LED_CTL0
59 DOCK_LED_CTL1

59 -DOCK_ATTACHED_3M
11.91 PANEL_POWER_ON
10,32,64,69,87,91 BPWRG




-EXTPWR_H8
VIDEO_ID



VIDEO_ID		
GFX	EXT.	INT.
R922	ASM	NO_ASM
R925	NO_ASM	ASM



**LENOVO.PND**
NB system design section

Title
H8S(2/2)

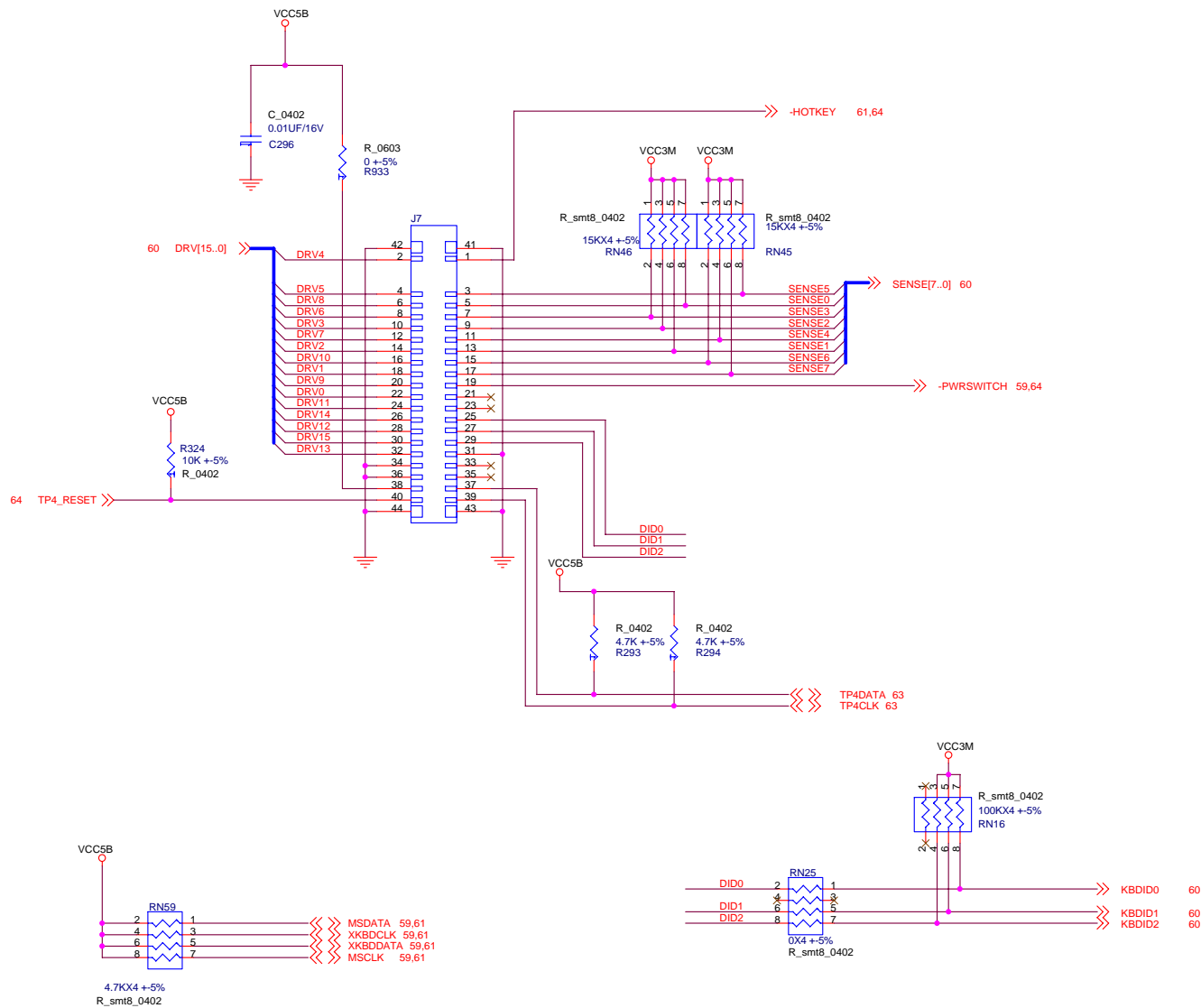
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Document Number
WAIKIKI

Rev
s1.1

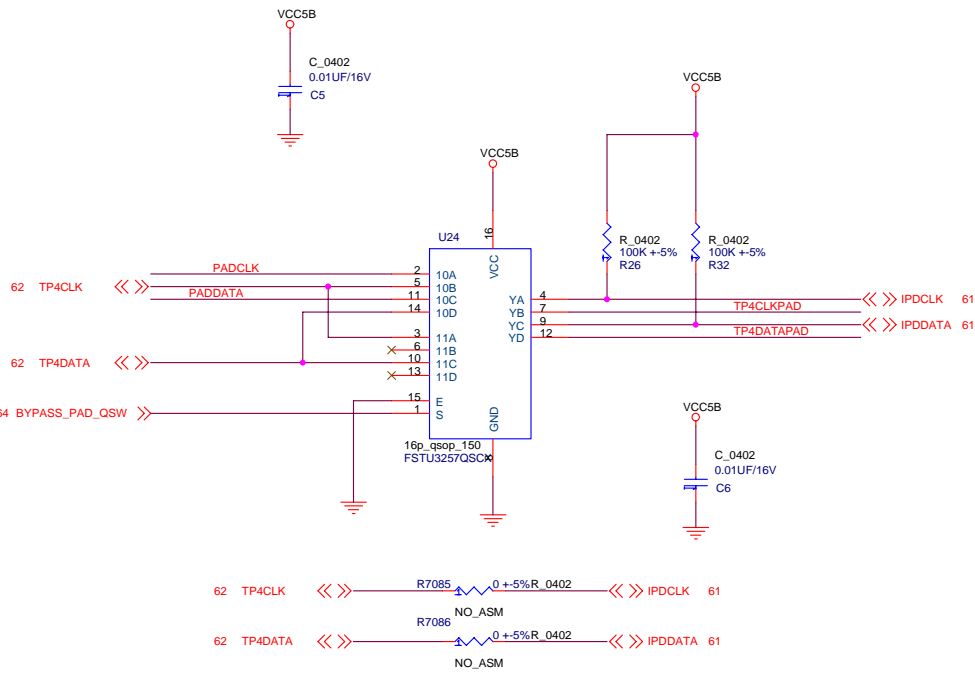
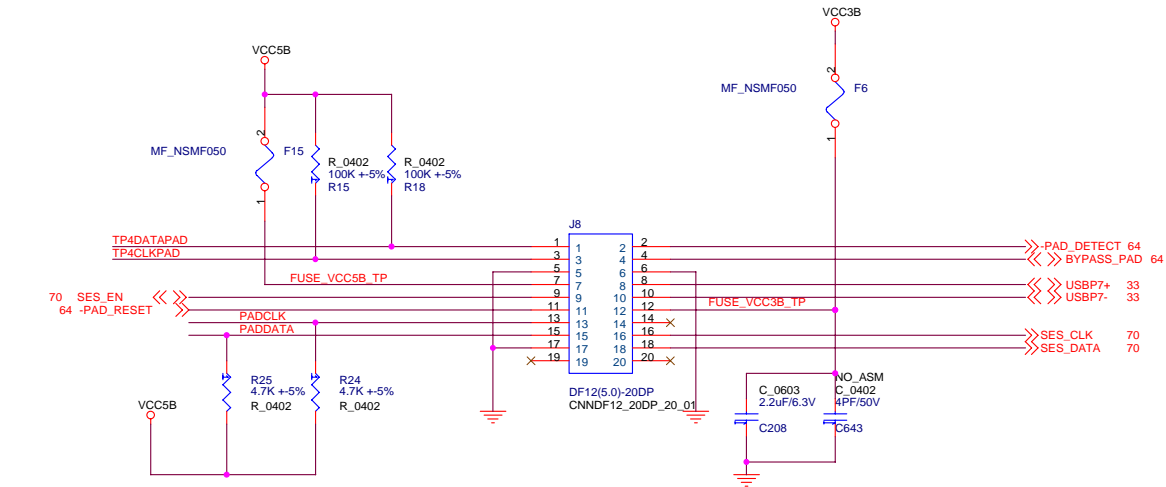
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Title KB CONN			
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TouchPad/FingerPrint Support		
	SUPPORT	NO SUPPORT
F15	ASM	NO-ASM
R15	ASM	NO-ASM
R18	ASM	NO-ASM
R24	ASM	NO-ASM
R25	ASM	NO-ASM
J8	ASM	NO-ASM
F6	ASM	NO-ASM
C208	ASM	NO-ASM
C643	NO-ASM	NO-ASM
C636	NO-ASM	NO-ASM
C631	NO-ASM	NO-ASM
C5	ASM	NO-ASM
C6	ASM	NO-ASM
U24	ASM	NO-ASM
R26	ASM	ASM
R32	ASM	ASM
R7085	NO-ASM	ASM
R7086	NO-ASM	ASM





LENOVO.PND
NB system design section

Title
TP CONN

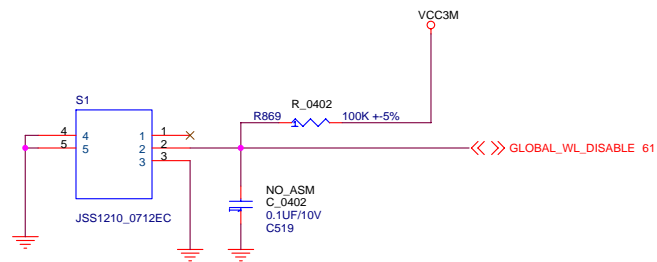
Size
Custom


Document Number
WAIKIKI

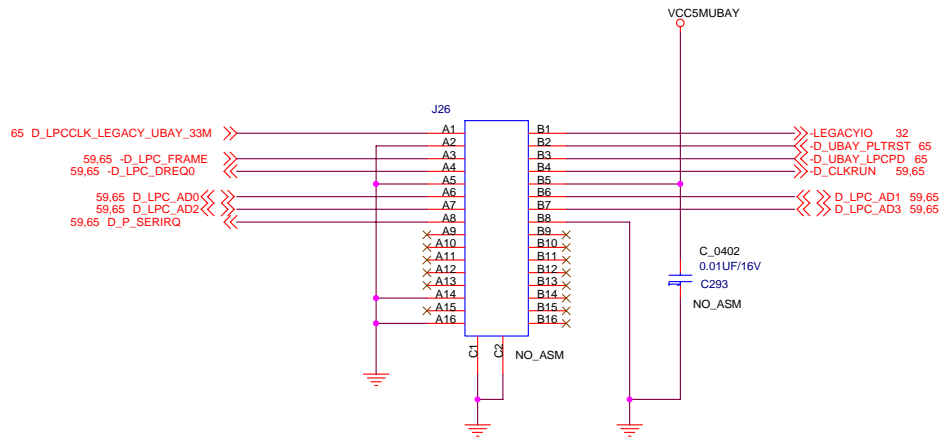
Rev
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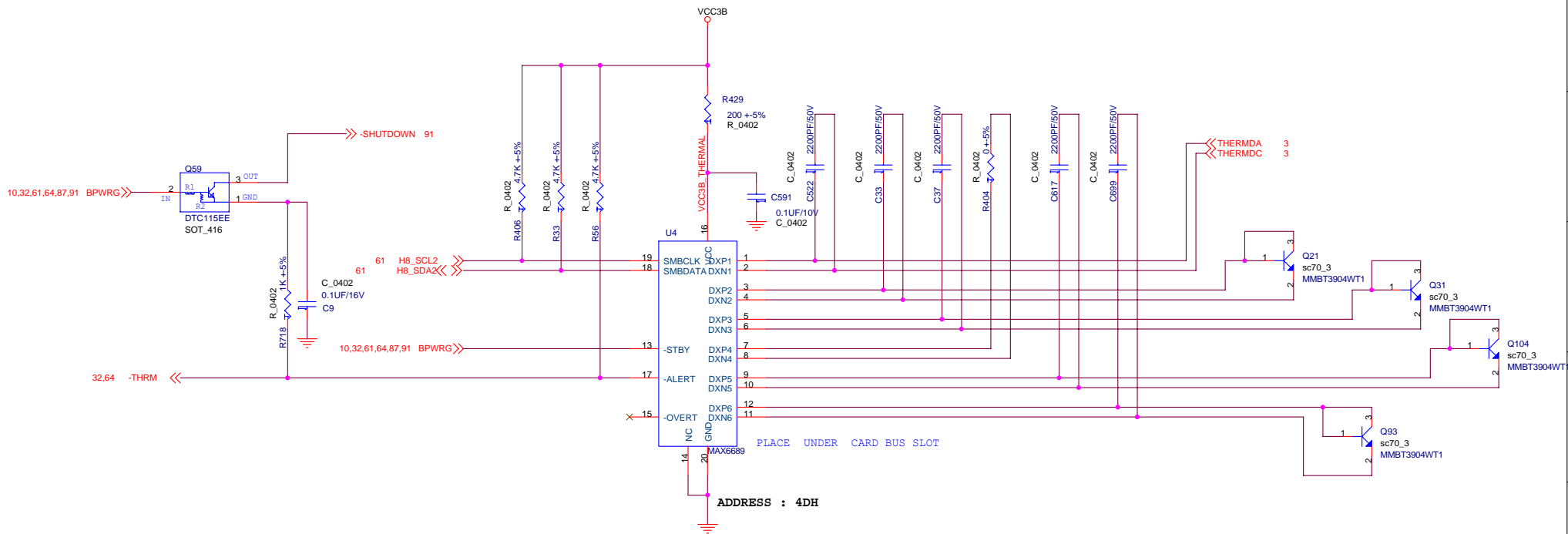
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Title WIRELESS DISABLE SW			
Size Custom	Document Number WAIKIKI		Rev s1.1
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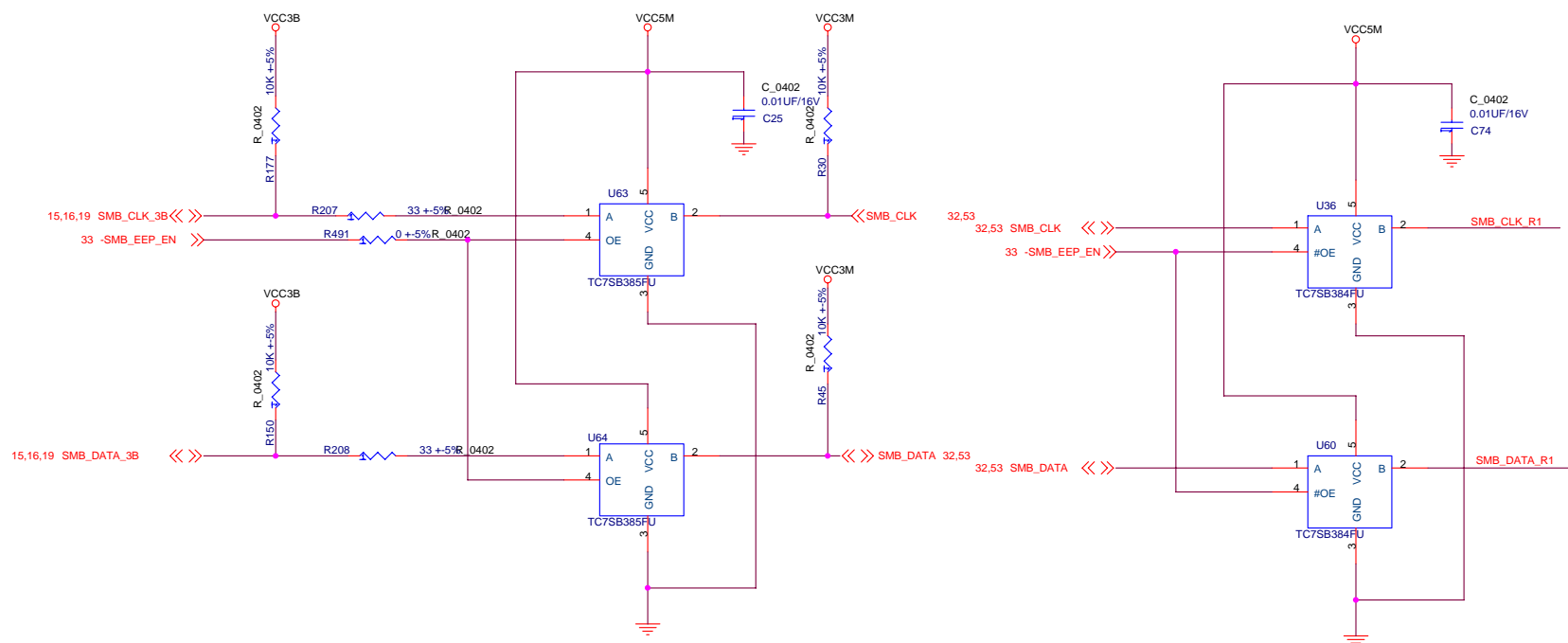
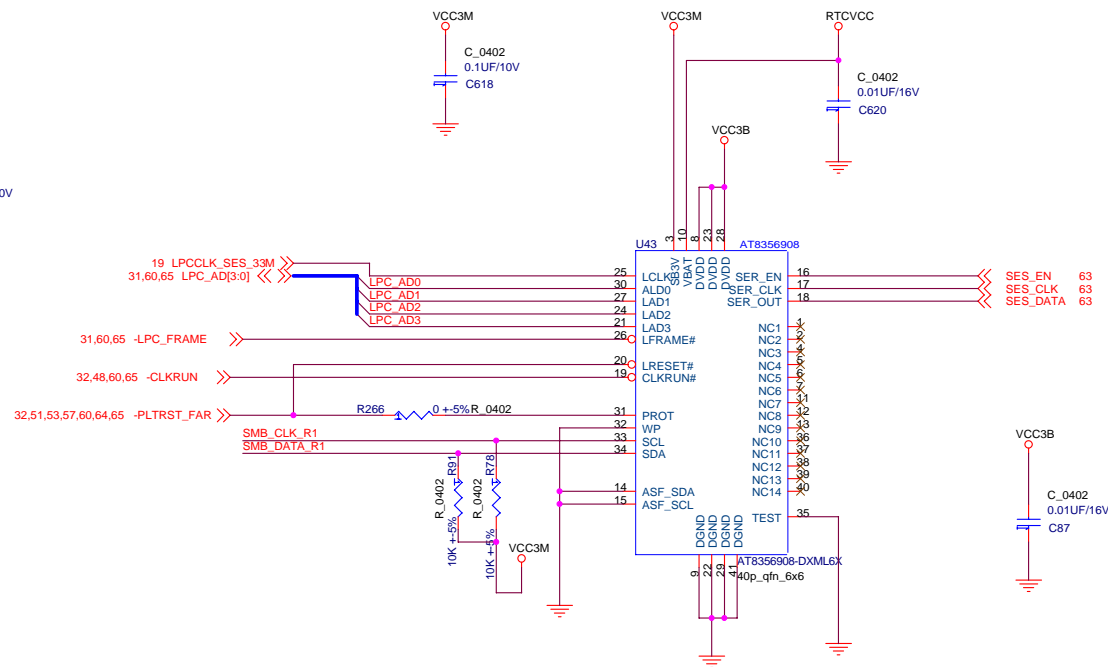
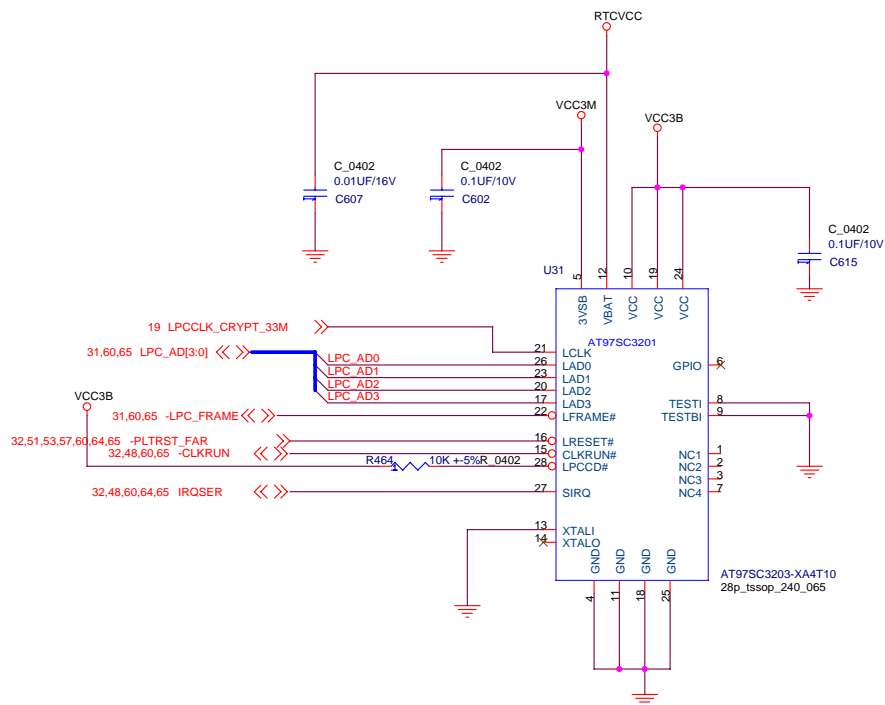
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		NB system design section	
Title			
SERIAL INTERFACE			
Size	Document Number		Rev s1.1
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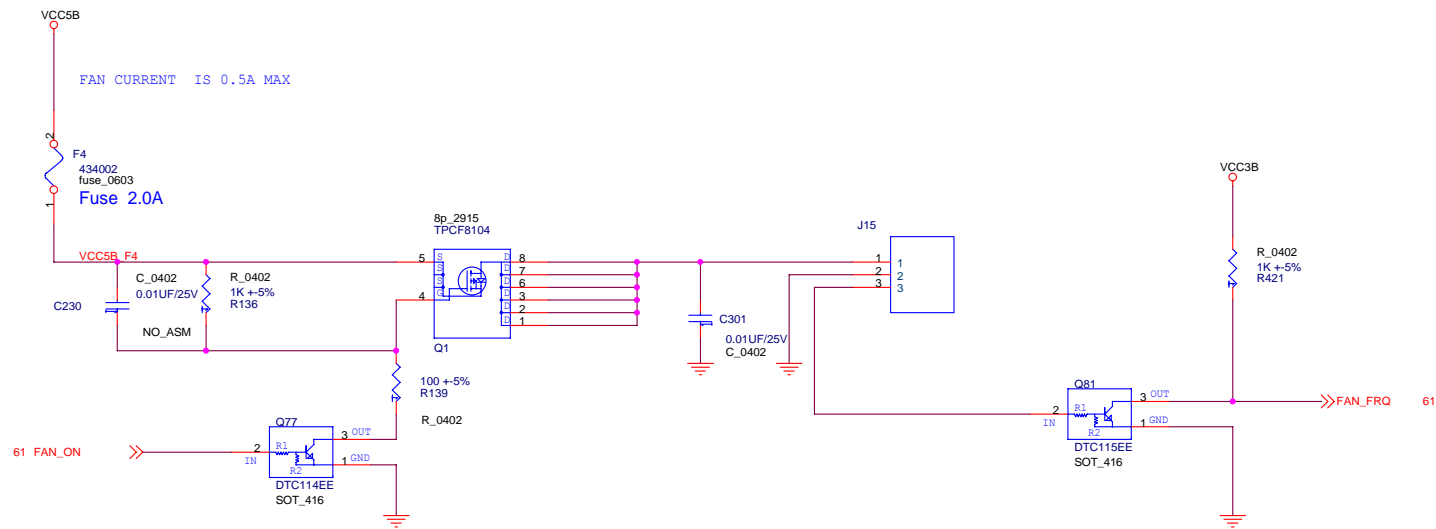
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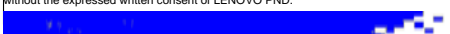
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Title		NB system design section	
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Size	Document Number		Rev s1.1
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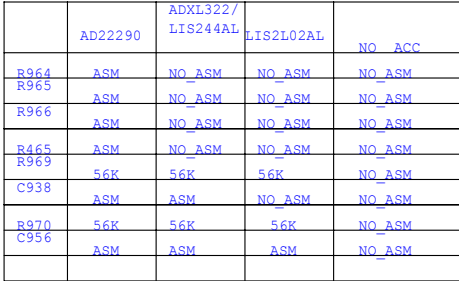


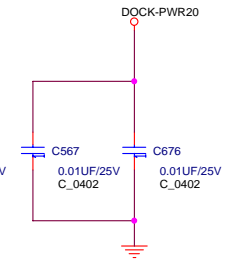
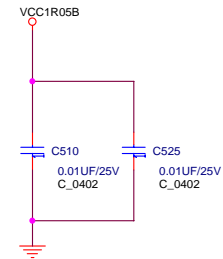
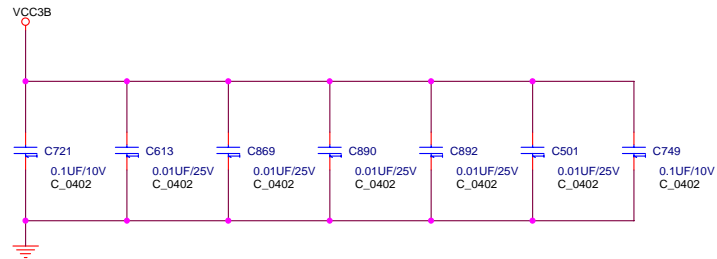
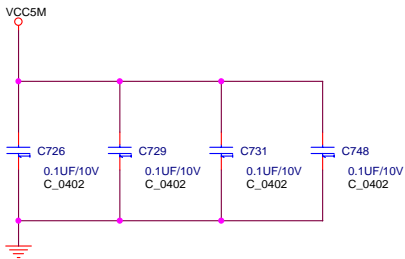
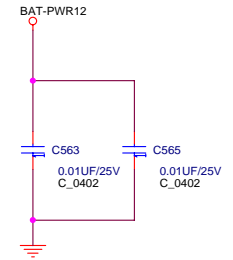
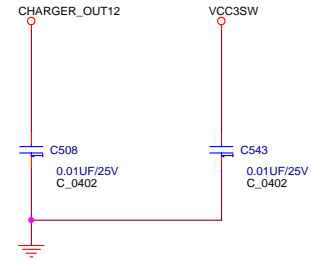
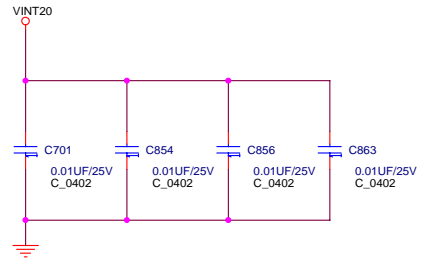
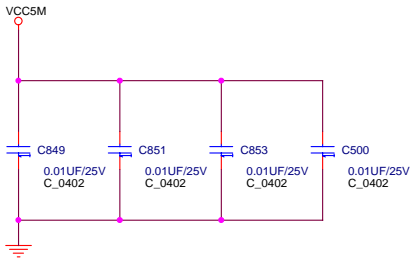
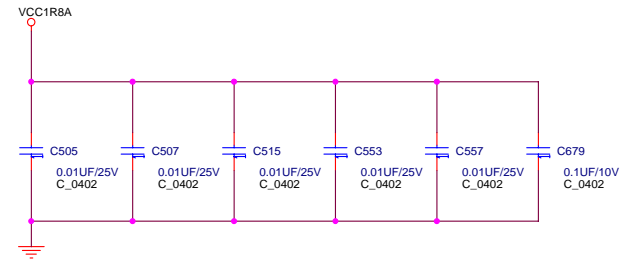
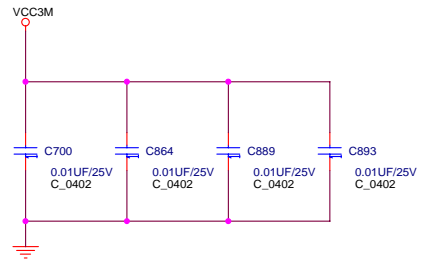
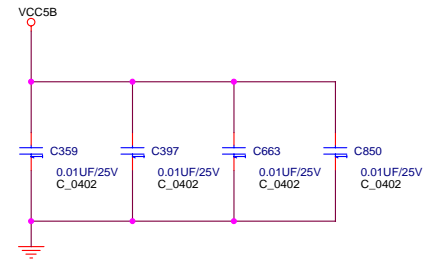
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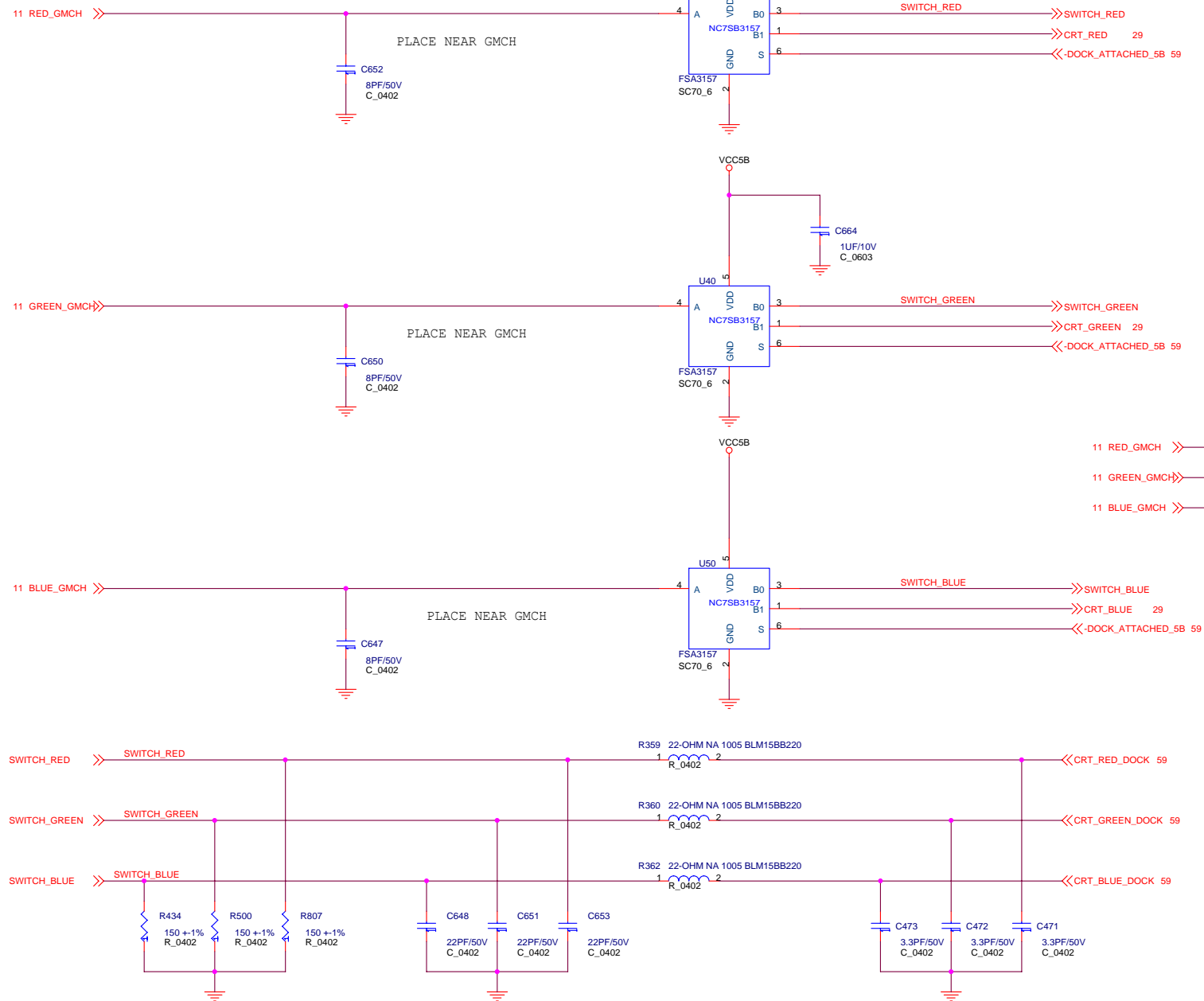


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FAN CONN			
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		LENOVO.PND NB system design section	
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EMC DECOUPLING			
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	DOCK	NO DOCK
C471	ASM	NO_ASM
C472	ASM	NO_ASM
C473	ASM	NO_ASM
C648	ASM	NO_ASM
C651	ASM	NO_ASM
C653	ASM	NO_ASM
C656	ASM	NO_ASM
C664	ASM	NO_ASM
R359	ASM	NO_ASM
R360	ASM	NO_ASM
R362	ASM	NO_ASM
R434	ASM	NO_ASM
R500	ASM	NO_ASM
R807	ASM	NO_ASM
U14	ASM	NO_ASM
U40	ASM	NO_ASM
U50	ASM	NO_ASM
R7087	NO_ASM	ASM
R7088	NO_ASM	ASM
R7089	NO_ASM	ASM



 LENOVO.PND
NB system design section

TitleRGB SWITCH

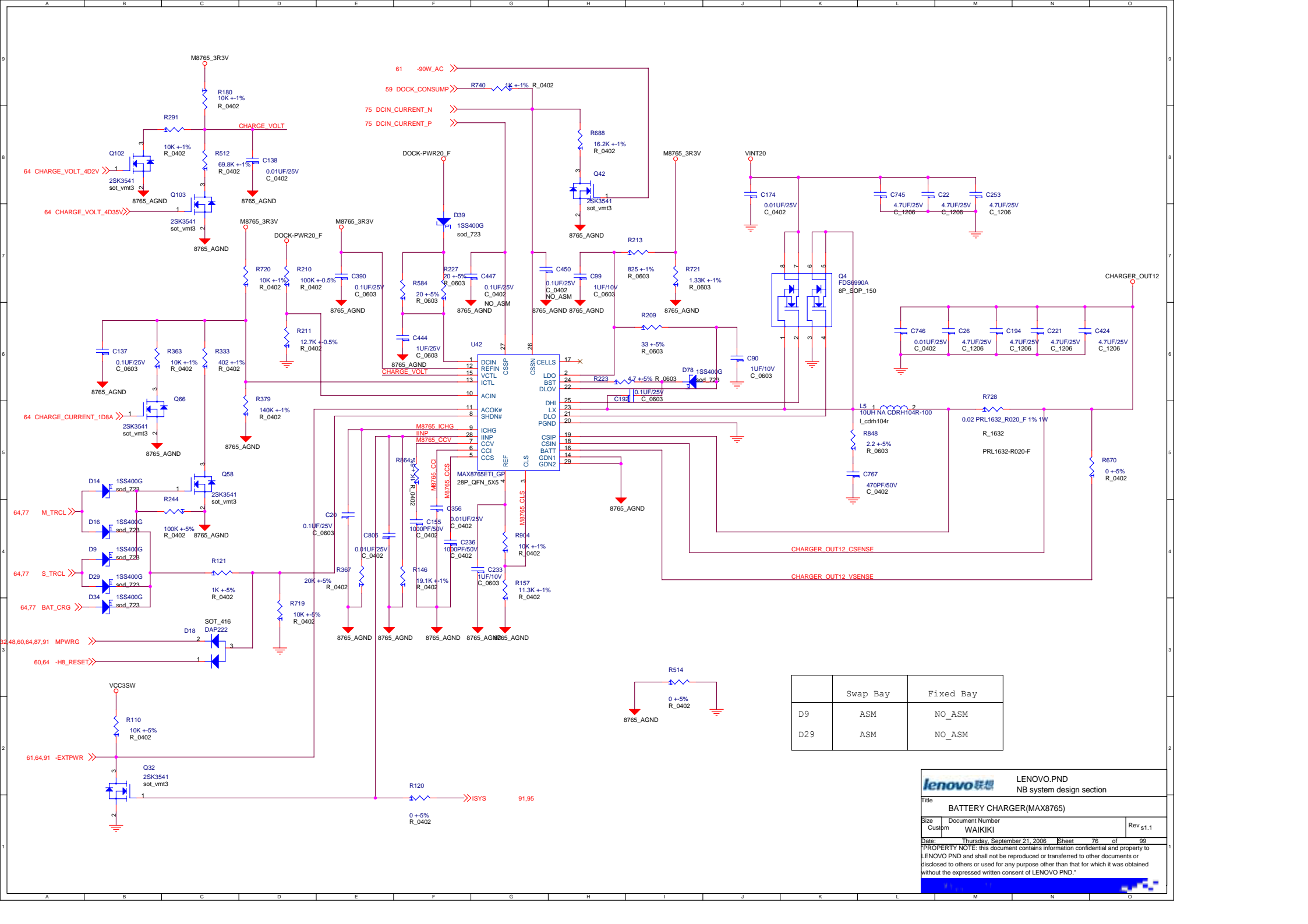
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	Swap Bay	Fixed Bay
D9	ASM	NO_ASM
D29	ASM	NO_ASM

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LENOVO.PND
NB system design section

Title

BATTERY CHARGER(MAX8765)

Size

Document Number

Custom

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Rev

s1.1

Date

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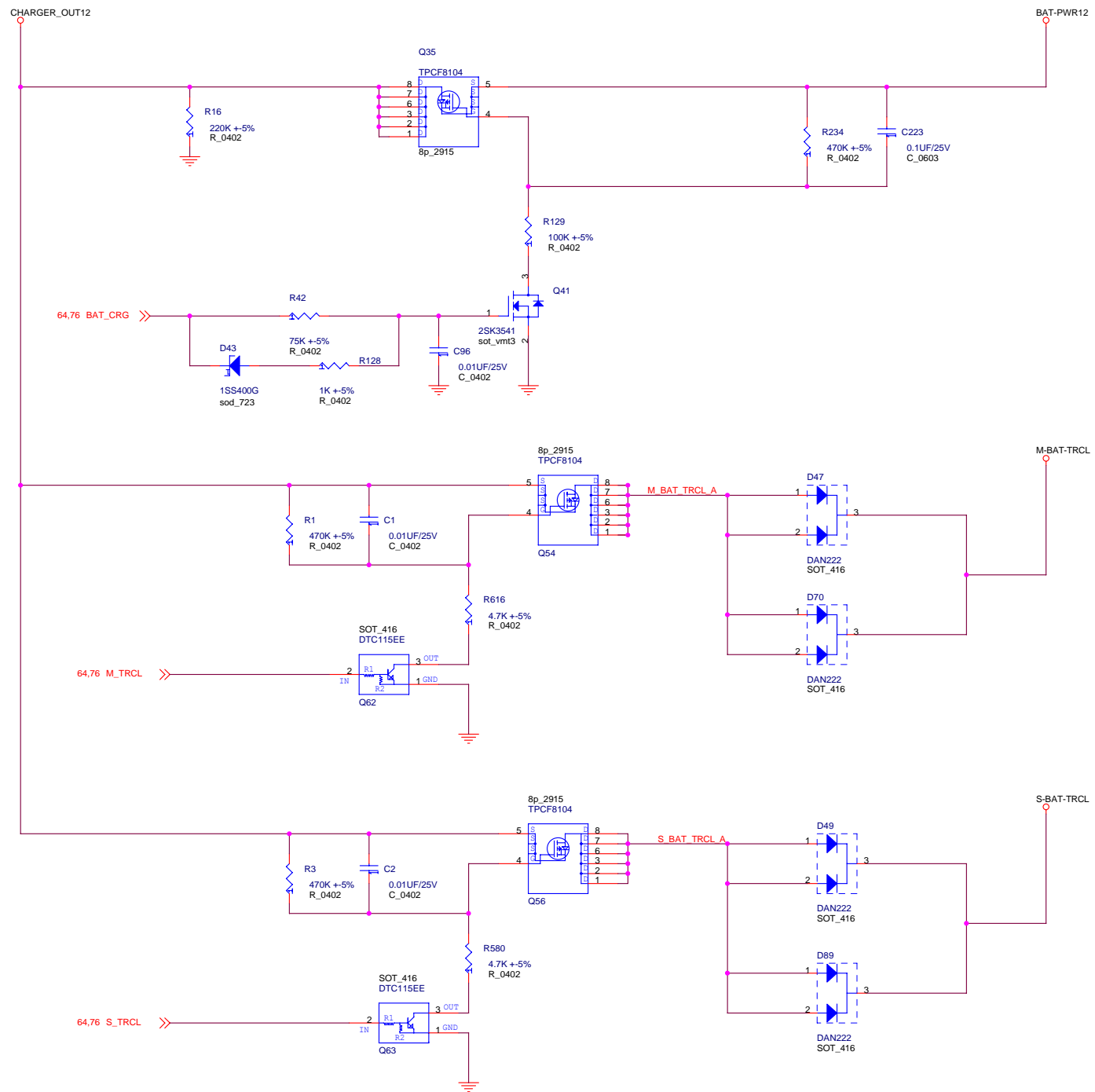
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	Swap Bay	Fixed Bay
R3	ASM	NO-ASM
C2	ASM	NO-ASM
Q56	ASM	NO-ASM
Q63	ASM	NO-ASM
R580	ASM	NO-ASM
D49	ASM	NO-ASM
D89	ASM	NO-ASM

 LENOVO.PND
NB system design section

Title

CHARGE SELECTOR

Size

Custom

Document Number

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Sheet

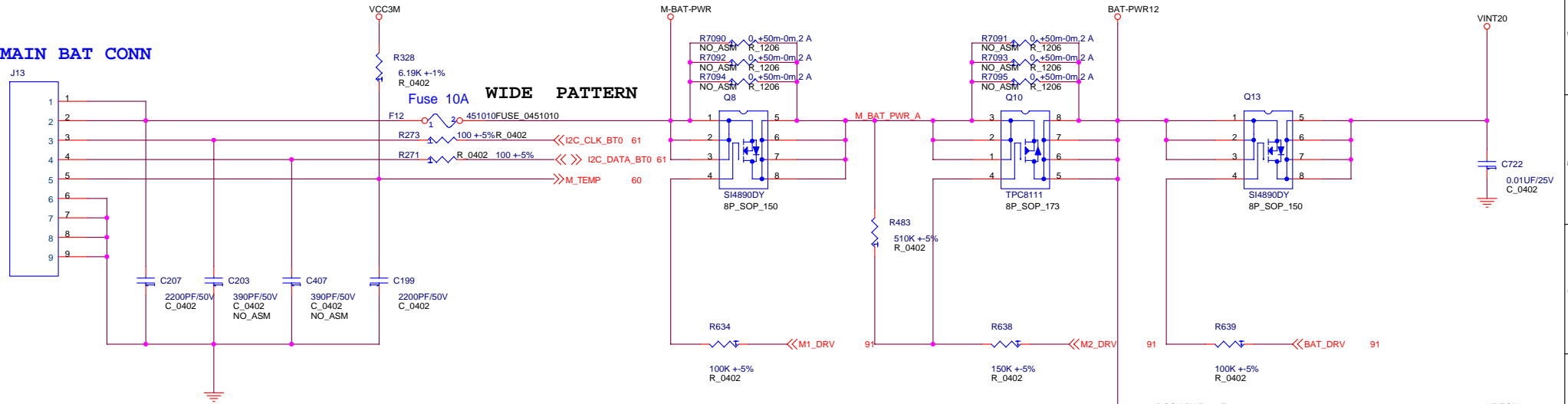
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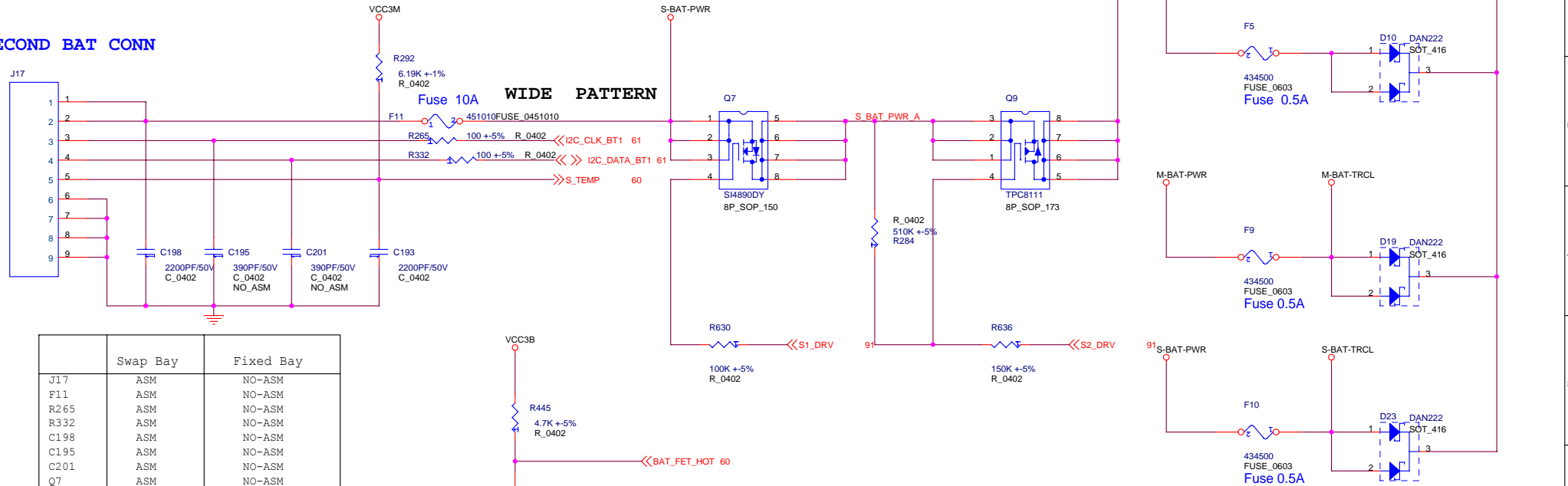
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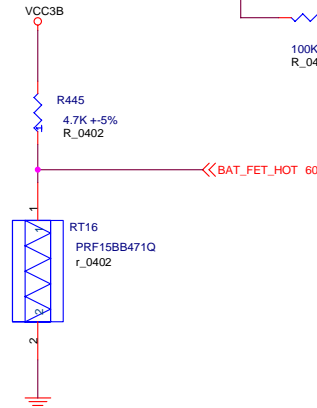
MAIN BAT CONN



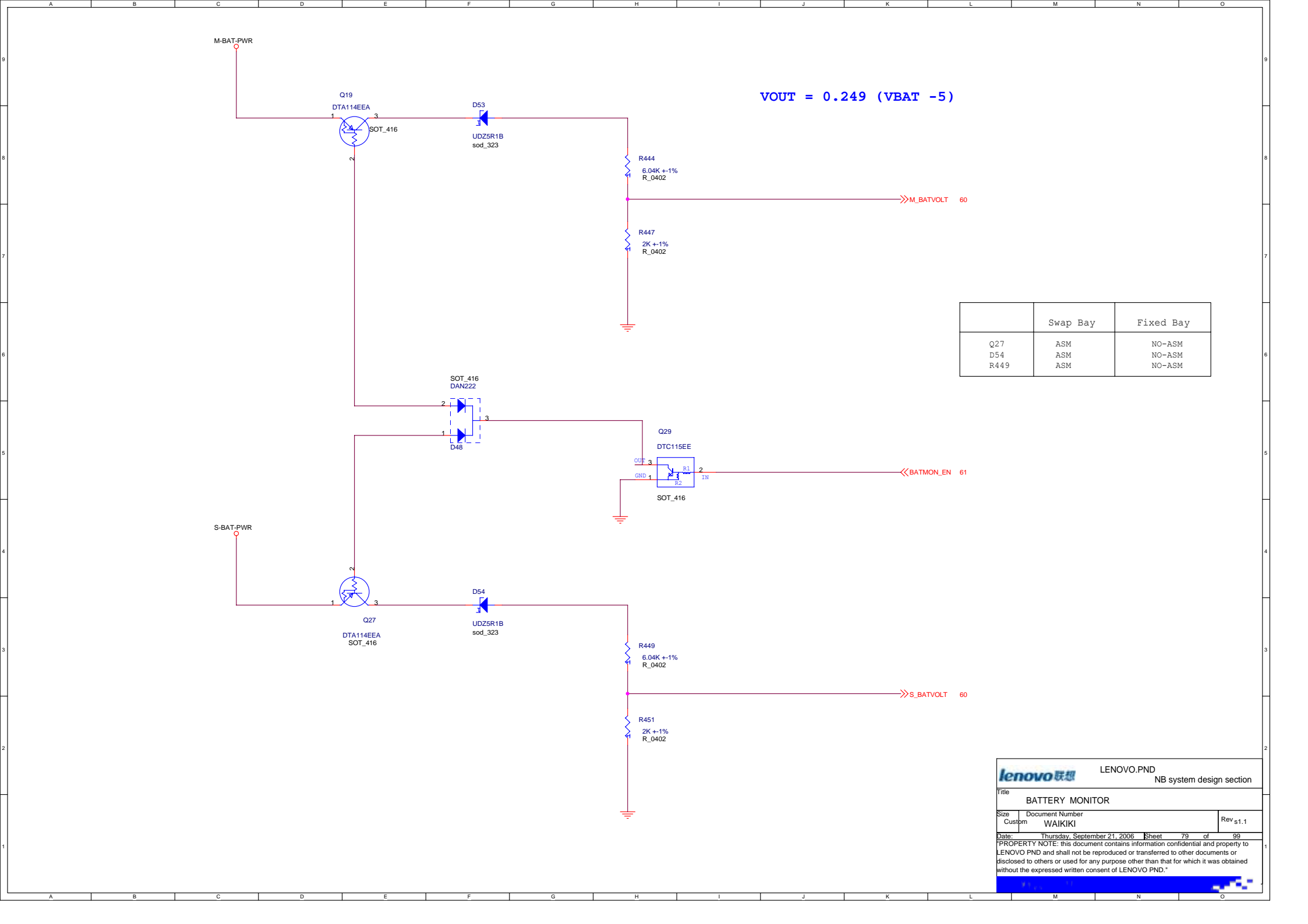
SECOND BAT CONN




	Swap Bay	Fixed Bay
J17	ASM	NO-ASM
F11	ASM	NO-ASM
R265	ASM	NO-ASM
R332	ASM	NO-ASM
C198	ASM	NO-ASM
C195	ASM	NO-ASM
C201	ASM	NO-ASM
Q7	ASM	NO-ASM
Q9	ASM	NO-ASM
Q8	ASM	NO-ASM
Q10	ASM	NO-ASM
R630	ASM	NO-ASM
R284	ASM	NO-ASM
R636	ASM	NO-ASM
R7090	NO-ASM	ASM
R7091	NO-ASM	ASM
R7092	NO-ASM	ASM
R7093	NO-ASM	ASM
R7094	NO-ASM	ASM
R7095	NO-ASM	ASM
F10	ASM	NO-ASM
D23	ASM	NO-ASM



lenovo 联想		LENOVO.PND	
NB system design section		Title	
BATTERY INPUT		Size	
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	Swap Bay	Fixed Bay
Q27	ASM	NO-ASM
D54	ASM	NO-ASM
R449	ASM	NO-ASM

 LENOVO.PND

NB system design section

Title

BATTERY MONITOR

Size

Document Number

Rev s1.1

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Thursday, September 21, 2006

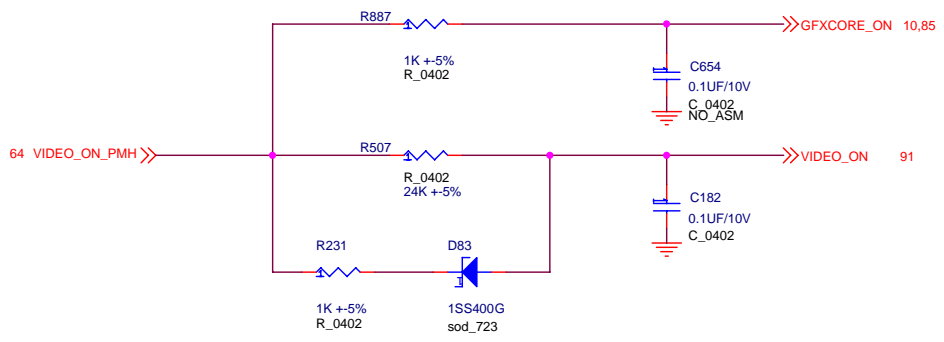
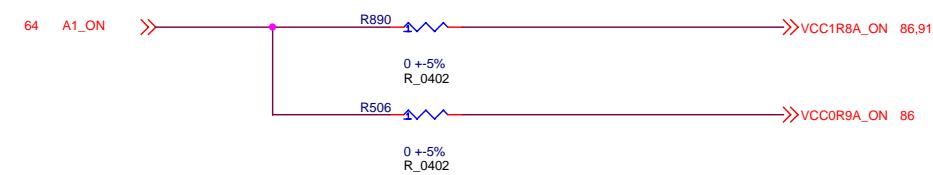
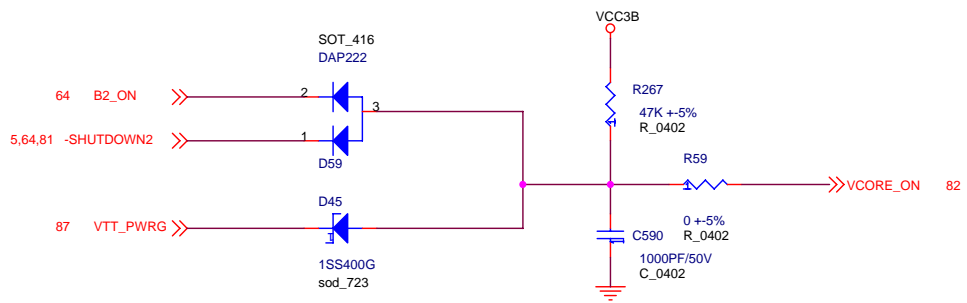
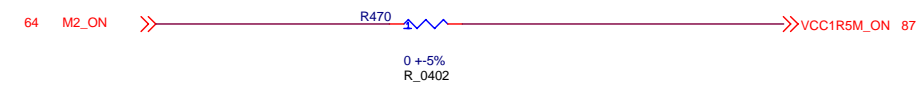
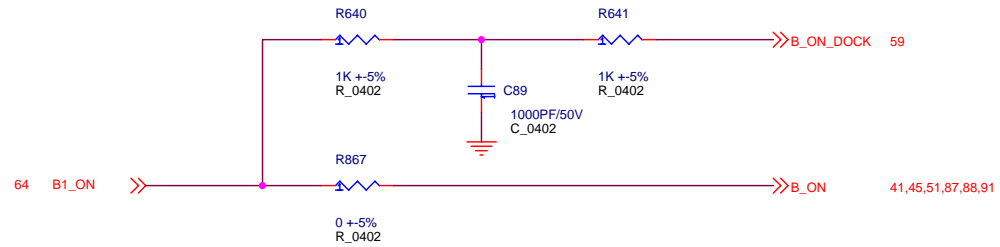
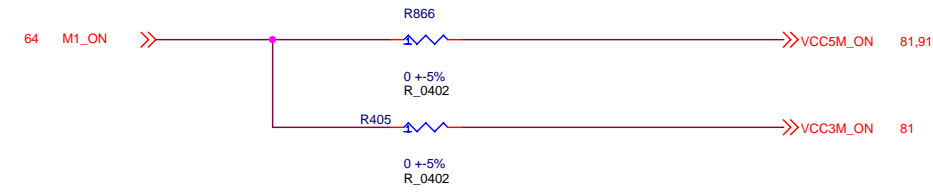
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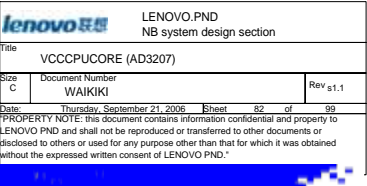
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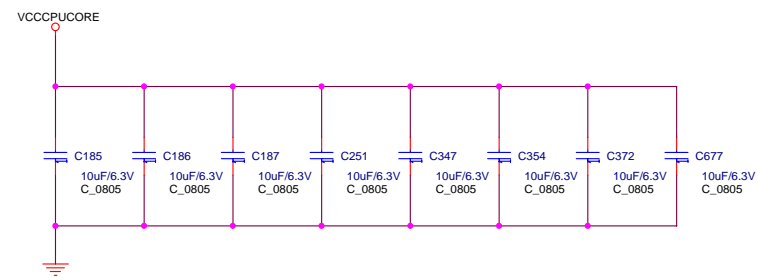
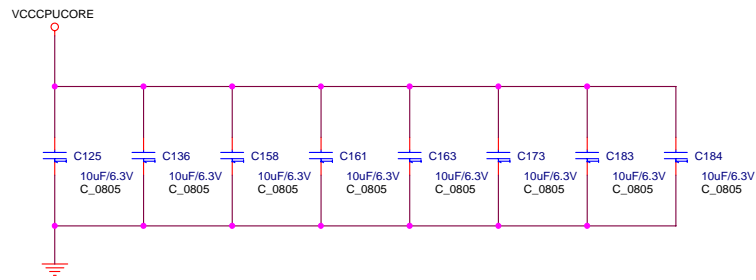
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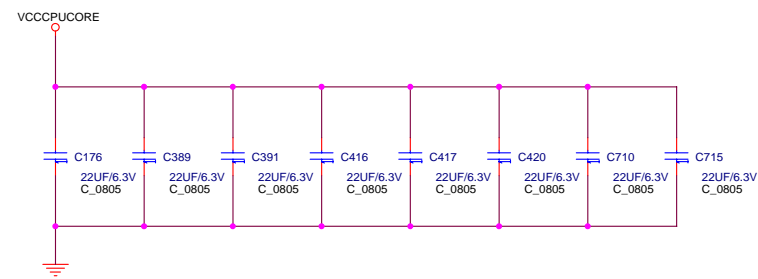
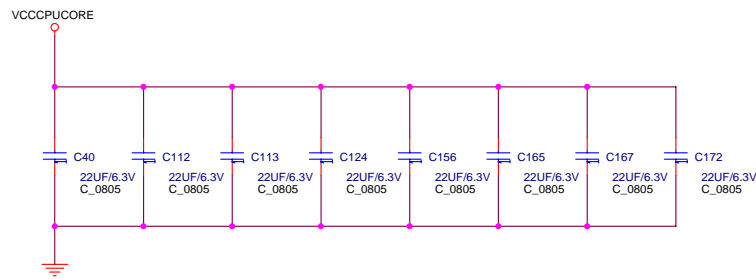


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10UF 6.3V X5R 0805 1/16W X 16PCS

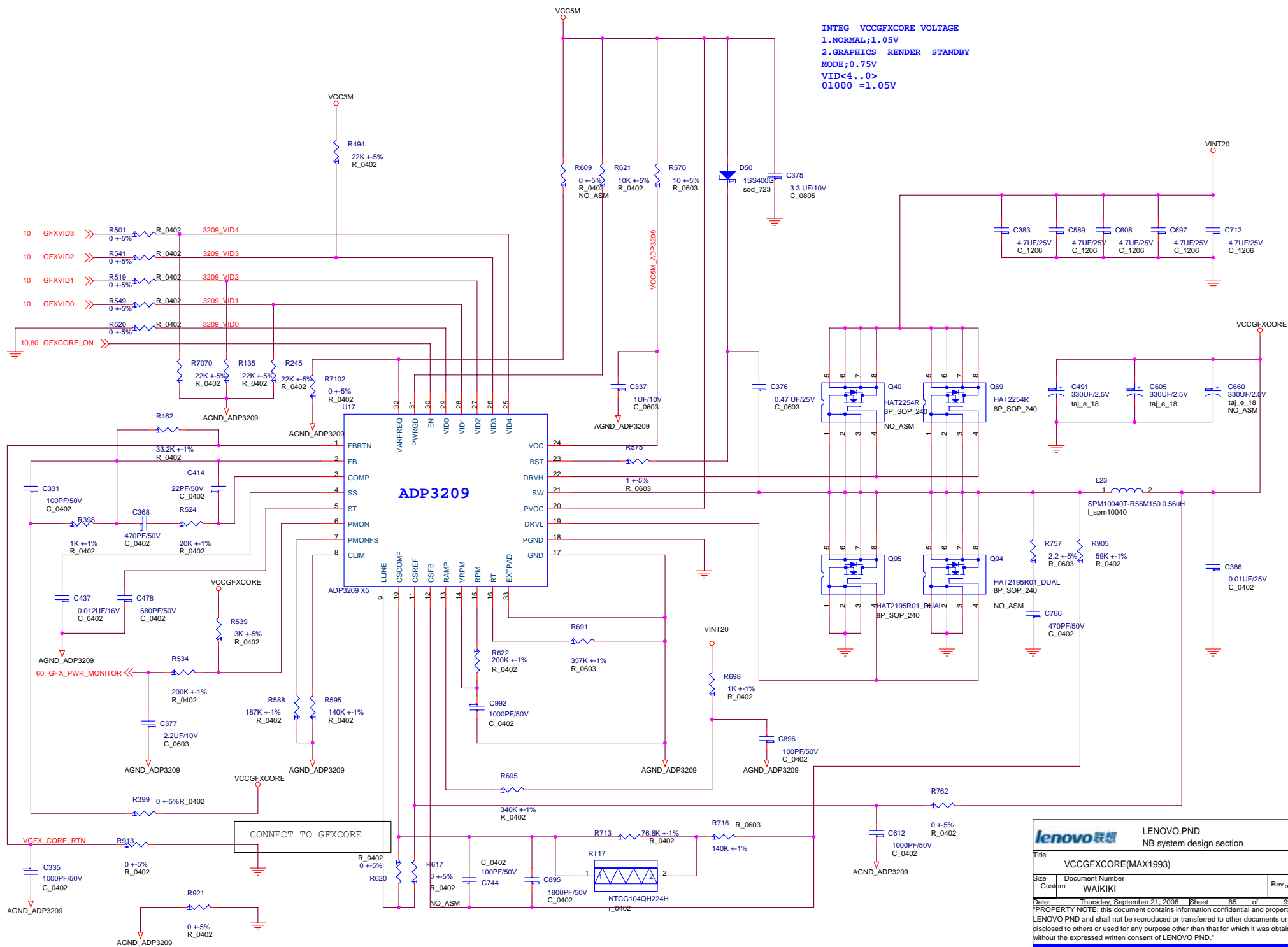


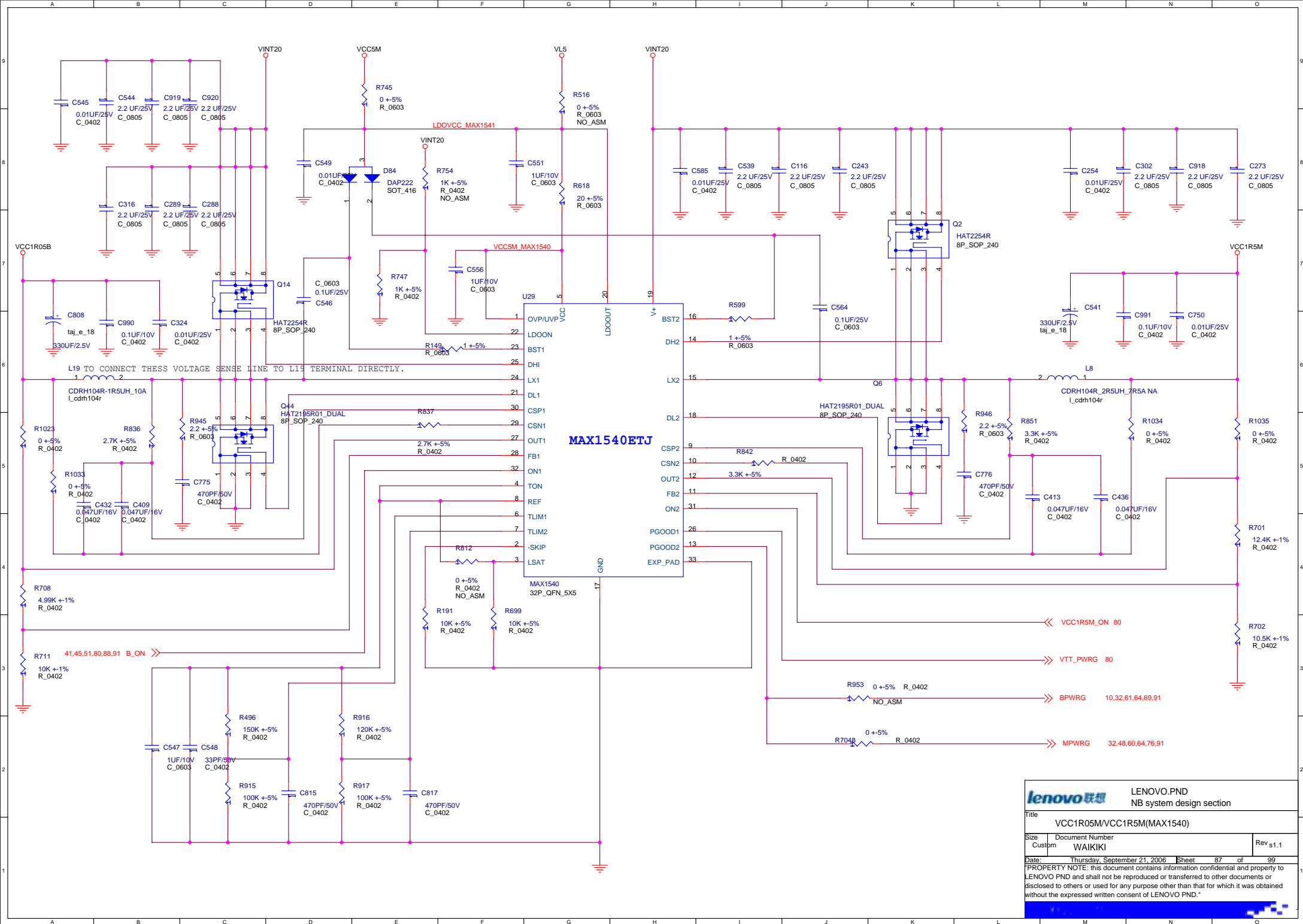
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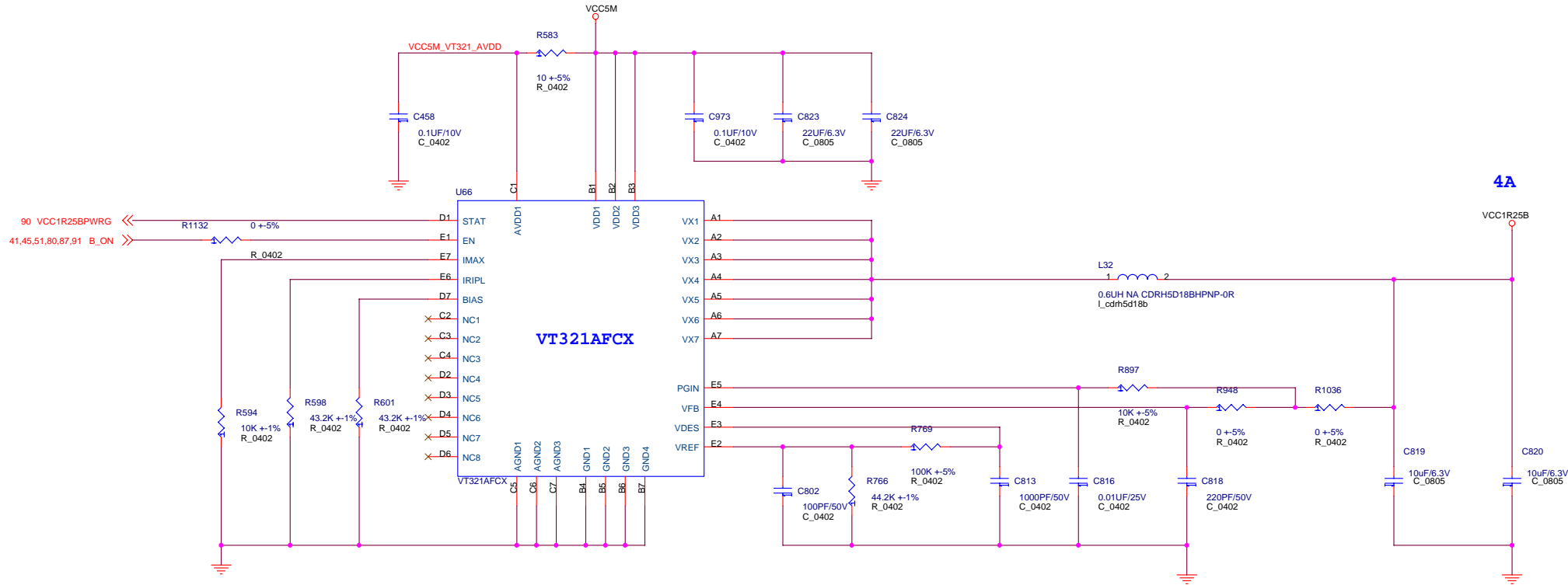
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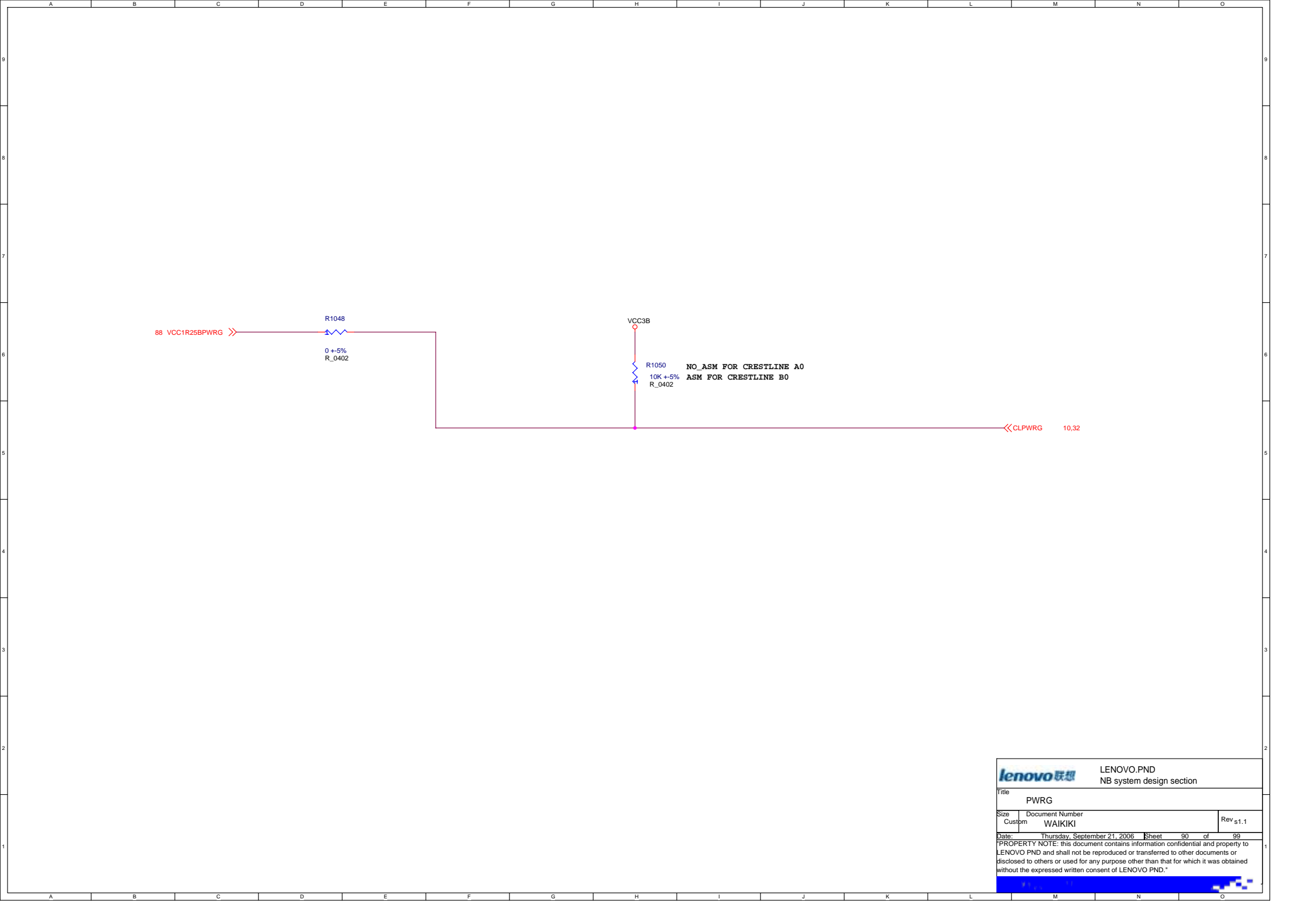





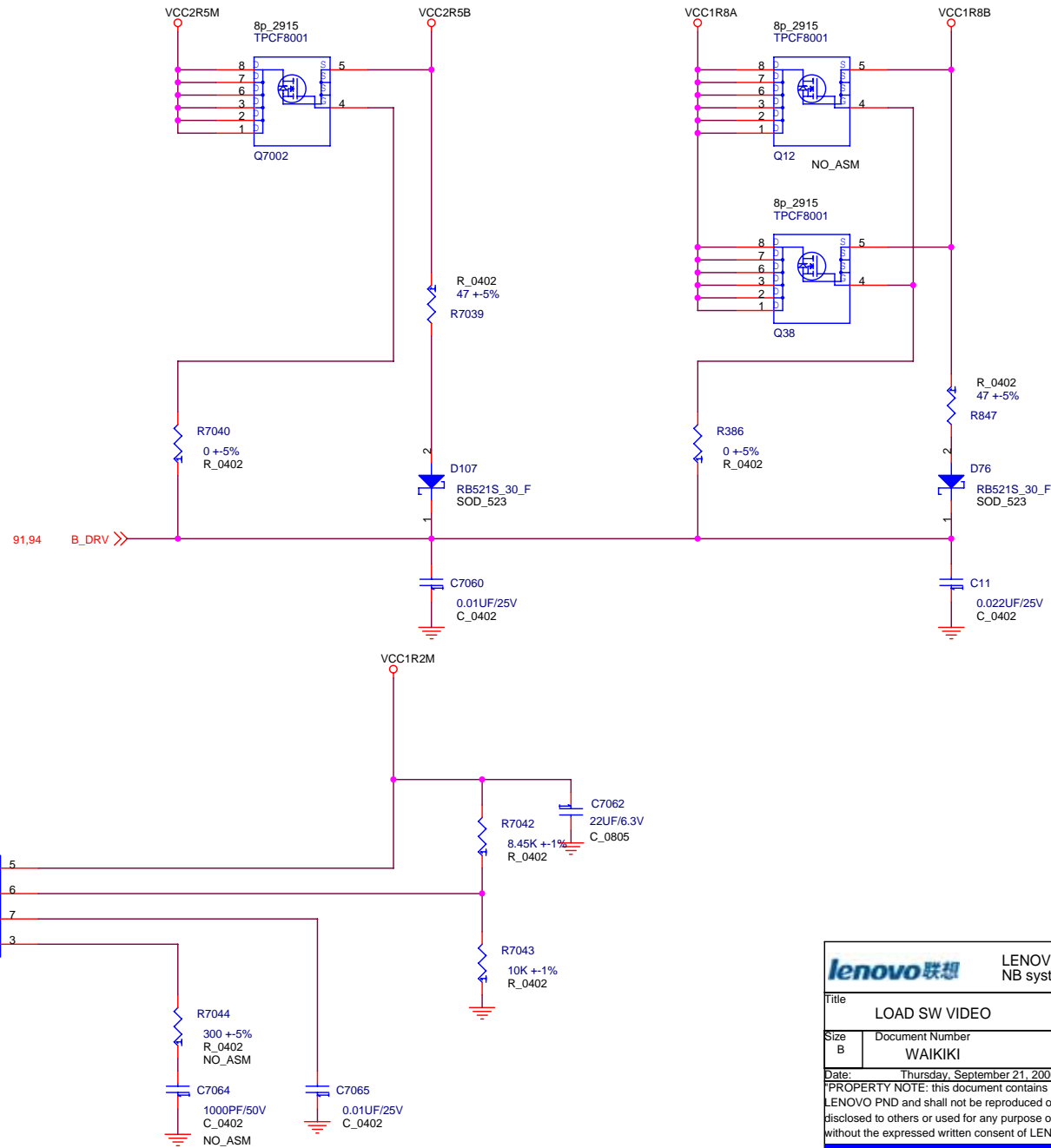
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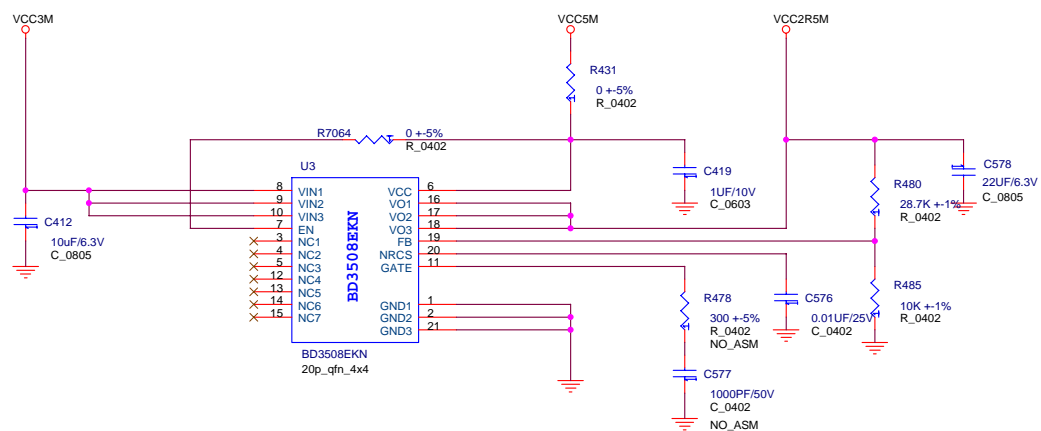
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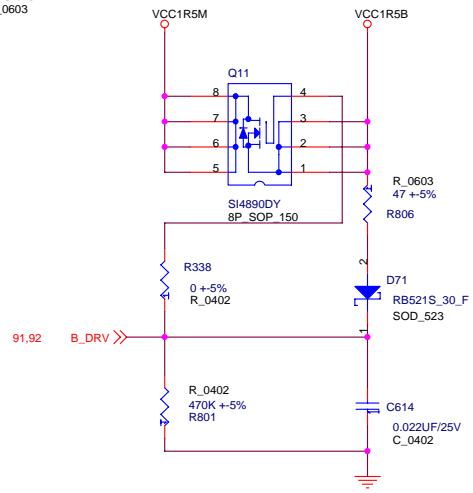
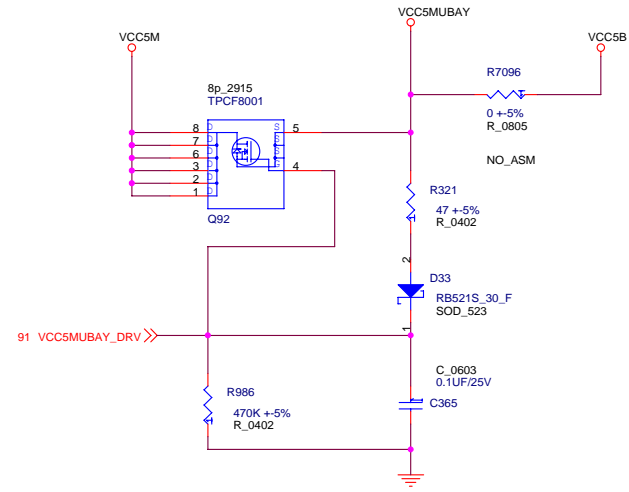
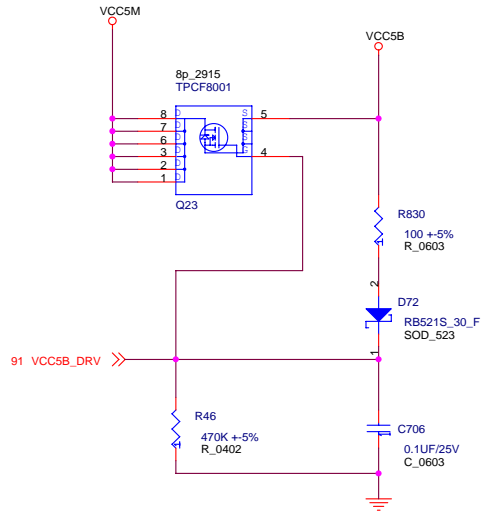
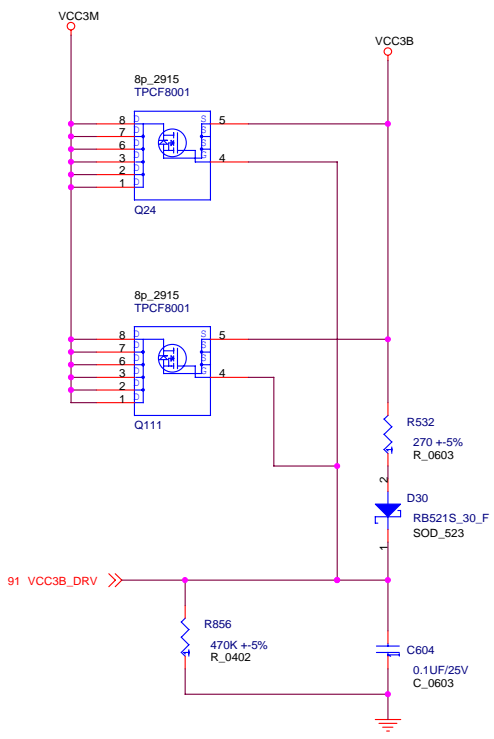



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LOAD SW AUX1 AUX2			
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	SWAP BAY	FIXED BAY
Q92	ASM	NO_ASM
R986	ASM	NO_ASM
R321	ASM	NO_ASM
D33	ASM	NO_ASM
C365	ASM	NO_ASM
R7096	NO_ASM	ASM



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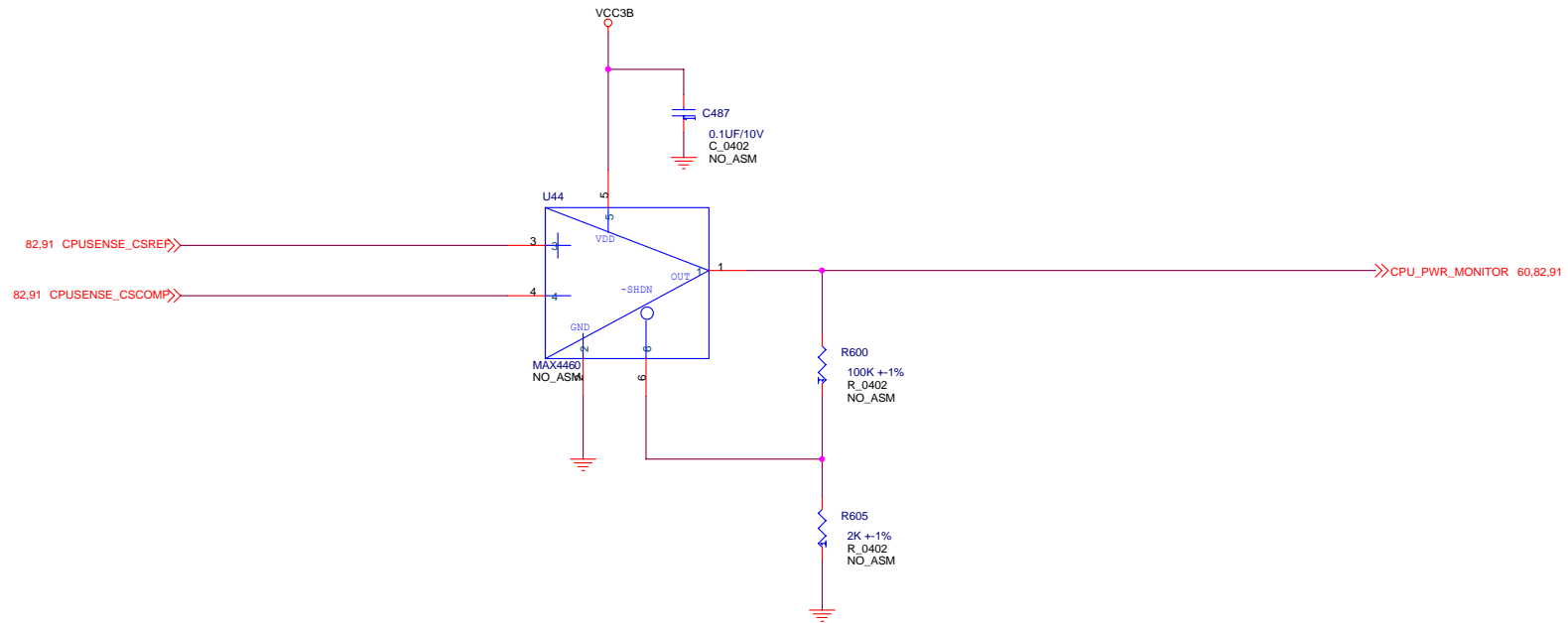
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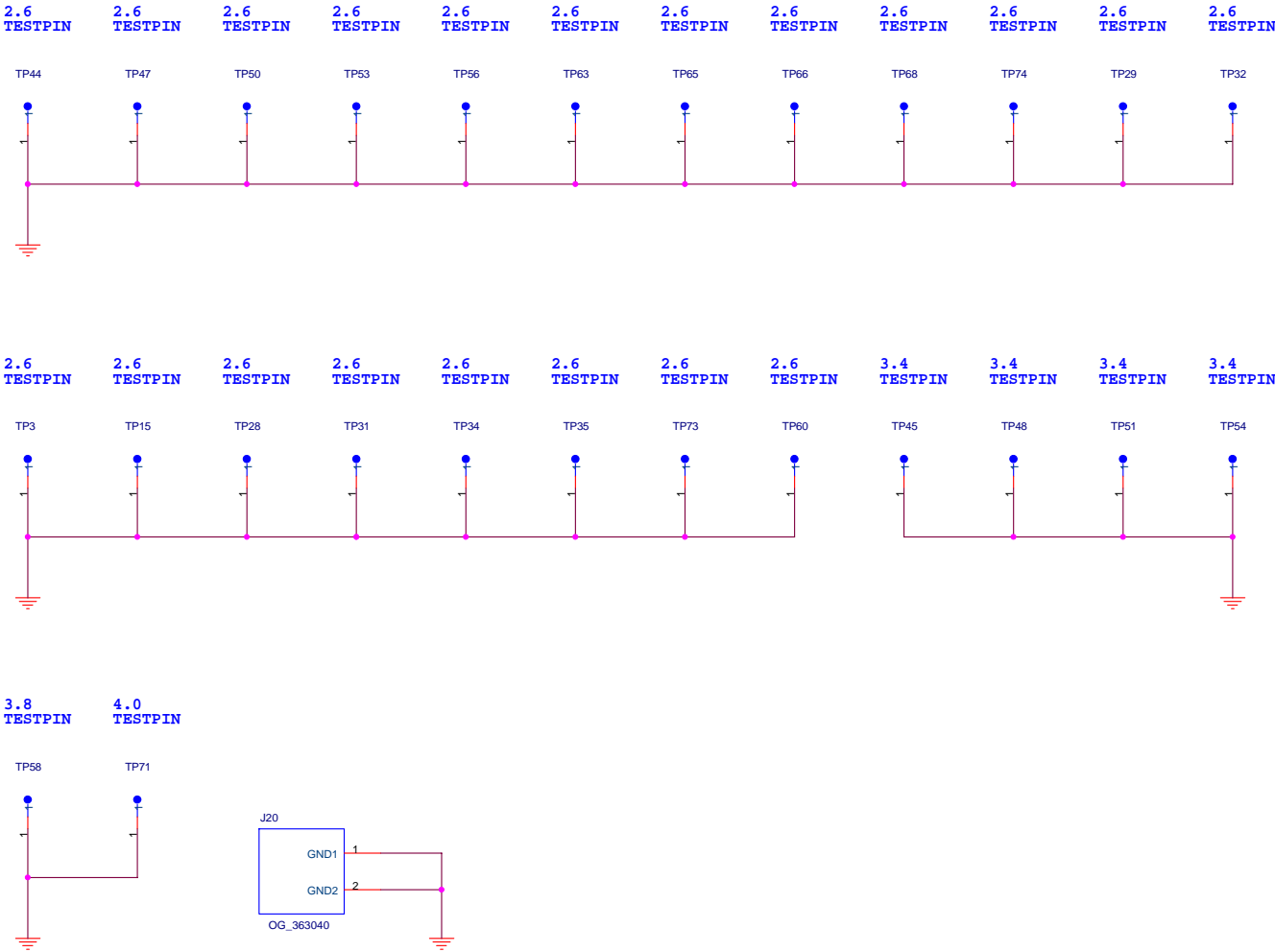
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PTH FOR SCREW HOLE



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EC History List

EC#	PAGE	Description
WK_SDV_EC001	20	R341 & R27 : 2.2K => 4.7K for DVI ID read fail W /A EC; SDVO_CTRL_DATA/CLK Pullup value change,
WK_SDV_EC002	88	R598 : 47K 5% => 43.2K 1%,C819 & C820 : 22UF => 10UF/6.3V/10%/2125,to correct value of VCC 1R25AMT
WK_SDV_EC003	10	R184 : ASM=>NO ASM,to set default to LOW POWER PCIE (same as DaV -1-Integ/Disc、DaV-3-Disc)
WK_SDV_EC004	12	C762 : 0.1UF => 0.47UF/6.3V/10%/1005,C681, C683 : 0.1UF => 0.22UF/6.3V/10%/1005, C733 : 0.1UF => 2.2UF/6.3V/10%/1608, C579 : 10UF +> 22UF/6.3V/20%/2125, C580 : 10UF +> 4.7UF/6.3V/10%/2125, to meet Intel Design Review results
WK_SDV_EC005	84	R829 : 6.19K 1% 1005 to adjust voltage of VCC 1R05M
WK_SDV_EC006	48	Change R1005 from pull down to pull up in order to support MS card
WK_SDV_EC007	60	R939 ASM(100kQ) -> No ASM
WK_SDV_EC008	63	R690 : NOASM => 100K ASM,Add 100Kohm pulldown to PANEL_POWER_ON (to meet Intel D.G)
WK_SDV_EC009	45	R908 : 27K => 16.2K/1%/1005,to change MICVCC from 4.7V to 3.3V for AD1984
WK_SDV_EC010	32	R345 ASM -> NO_ASM (0ohm),R1009 NO_ASM -> ASM (0ohm, 83G3823) to enable GbE Disabling from BIOS Setup Menu
WK_SDV_EC012	28	Romove Q108 and nets to remove Security LED Completely
WK_SDV_EC013	22	Q45 : Change NchMOSFET from 2SK3019 to 2SK3541
WK_SDV_EC014	11	Add R772 100K/1% pulldown resistor to VGA_BLON (to meet Intel D.G)
WK_SDV_EC015	59	Add C764,C879,C880,C881,(1000pF x 4) at audio lines near the Dock connector.
WK_SDV_EC016	75	Add C882 100pF at ACDC_ID near the DC connector(J24)
WK_SDV_EC017	75	Add Q91,Q97,R773 to prevent inrush current from AC adapter to Battery
WK_SDV_EC018	75	Change placement note of R11 and R264 in order to prevent connection with VINT 20
WK_SDV_EC019	85	Remove Q15,R403,R425,R429,R521,R537,R538,R540,R579,R586,R587,R590,R602,r73 change R494 to 22K 5%, ASM, Change R501,R541,R519,R549,R520 from No_ASM to ASM, for GFX_VID PULLUP W/A until BIOS start for Crestline ES1, ES2(Parmanent EC)
WK_SDV_EC020	44	Delete R1014,R1015, R1017, R1018, This resiser prevent to on these FET due to low voltage level
WK_SDV_EC022	61	Add R943 100K 5% pullup
WK_SDV_EC023	14	Change Cap. Parameter C204,C205,C205 from 10V 10% TO 6.3V, 10%
WK_SDV_EC024	12	ADD C883,C884,C885,C886,C887,C888, AND Remove C734,C735,C736, FOR Add de-cap to VCCGFXCORE
WK_SDV_EC025	19	Change C732,C672,C673,C213,C739,C708,C716 to NO_ASM, and change R335,R336,R76 to 1 Ohm to follow supplier 's recommendation
WK_SDV_EC026	28	Change R668 to NO_ASM and R764 to ASM, because GMCH PWM problem was fixed by BIOS correction
WK_SDV_EC027	88	add five 0 ohm resistors: R1053,R1054,R403,R425,R429 in order to follow AMT NON Support
WK_SDV_EC028	26,27	Insert two blank pages between Page 26 and Page27.
WK_SDV_EC029	52,56,59,74	Add Docking BOM Option Tables
WK_SDV_EC030	63	Add R540,R579, 0 Ohm NO_ASM for no Touch Pad support
WK_SDV_EC031	65,67	Change R305,C293,J26 to NO_ASM for no legacy IO
WK_SDV_EC032	37,94	Add R586,R587, and add FixedBay or SwapBay BOM Option tables
WK_SDV_EC033	73	Change Q97 from DTC115EE to DTC114EE.
WK_SDV_EC034	19	Change C672 C213 to NO_ASM
WK_SDV_EC035	69,91	Change Q59.3PIN from PWRSHUTDOWN to -SHUTDOWN,add net -SHUTDOWN on U61.16PIN for to divide -pwrshutdown signal into IN and OUT
WK_SDV_EC036	28,32,61	Del GPIO_BT signal and add -S4_STATE signal between H8 and ICH8 for detect S4 state.
WK_SDV_EC037	94	Change Q11 from HAT2195R01 to S14890DY for cost reduction
WK_SDV_EC038	29,74	Change RGB signal CAP C448, C449, C596,C648, C651, C653 from 10pF to 22pF.
WK_SDV_EC039	32	Change R79 from 100ohm 5% to 39ohm 5% to improve waveform of -PLTRST_FAR
WK_SDV_EC040	85	Change R462 =>ASM,R595 100K=>200K,C744=>ASM,C895 2200PF=>1800PF,R905 59K=>43.2K,C660 =>NO_ASM,L23 0.88uh=>0.56uh for meet INTEL GMCH SPEC.
WK_SDV_EC041	78,81	CHANGE C722 0.01uF 25V 1005 10%,C214 C520 C386 C272 C324 C549 C750: 0.01uF 25V 1005 10% in order to reflect cap.
WK_SDV_EC042	86	Change R330 =>NO_ASM,R685 150K=>100K,Q43,Q49 =>HAT2195R01_DUAL in order to raise OCP point and output voltage of VCC 1R8M for DDR2
WK_SDV_EC043		Delete AMT support circuit,include change AMT power rail to B power rail,modify AMT signal,detail information please see EC_FOR_AMT_DISABLE_2.PDF
WK_SDV_EC044	63	ADD TouchPad/FingerPrint Support information.
WK_SDV_EC045	78,79,80	ADD SWAP BAY/FIXED BAY BATTERY option information when built bom
WK_SDV_EC046	11,14	Add ASM/NOASM table for S -Video support when built bom.
WK_SDV_EC047	11	change R253 from 1.3K to 1.27K, 0.5%
WK_SDV_EC048	80	change R507 from 12K to 24K,and change R507 to R7035
WK_SDV_EC049	91	R855 change to NO_ASM, R852 chang to 49.9K 1%, change R855 to R9036
WK_SDV_EC050	32	Add Cardbus ID
WK_SDV_EC051	53,71	Add R7034, 200ohm, chang C591(C7051) to 0.1UF, 1V, 10%, change C301(C7059) to 0.01UF, 25V, 10%
WK_SDV_EC052	61	Change H8 pin assign of S4_STATE#
WK_SDV_EC053	72	Change default APS logic for ADXL322.
WK_SDV_EC054	32	Change to Waiiki ID from Davinci ID, R1021 NO_ASM to ASM, and R1038 ASM to NO_ASM
WK_SDV_EC055	32	Planar ID 0000b for SDV, R113 NO_ASM to ASM, and R672 ASM to NO_ASM
WK_SDV_EC056	45	Co-Layout Headphone amplifier AN12946A
WK_SDV_EC057	45	Replace Ethernet from Nineveh to BCM 5787M (U7002)
WK_SDV_EC058	46	Change system speaker function with BEEP.
WK_SDV_EC059		Add comments for rating of power components.
WK_SDV_EC060	42	C7002 : should be 4.7uF 10V X5R,Q99 : 2SK3541 -> DTC115
WK_SDV_EC061	61,32	Delete 0ohm jumpers and connect directly of H8,and Delete NETDETECT signal.
WK_SDV_EC062	70	Change from D1 to R7052 0ohm and Delete R212.
WK_SDV_EC063	48	To remove hook for R5C584,and circuit for 2nd port of IEEE1394 termination and non-internal regulator
WK_SDV_EC064	48	To update ASM option for IEEE1394 support case(R5C847, R5C803) and non support case (R5C804)
WK_SDV_EC065	32	Pull-up R272 for CL_RST_WLAN# -> NO_ASM : Intel's recommendation
WK_SDV_EC066	31	Add 4in1 Slot Presence Detection ID.
WK_SDV_EC067	48	To implement feedback of Circuit review by Ricoh
WK_SDV_EC068	60	ADD RC circuit for fix G-sensor noise problem

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EC History List 2

EC#	PAGE	Description	EC#	PAGE	Description
WK_SDV_EC069	70	DEL C41 to remove stub of LPCCCLK for TATER	WK_SDV_EC0144	72	Update logic table to support new G_sensor ST Micro LIS244AL.
WK_SDV_EC070	81	ADD R7051 R7052 in order to support MAX17003 for Discharge function of VCC3M and VCC5M	WK_SDV_EC0145	85	Update L23 to #DV3127 SPM10040T-R56M150
WK_SDV_EC071	91	ADD R7045 DEL R868,R820,R876,R900 for change RINKAN-1 circuit for correction.	WK_SDV_EC0146	85	Update L11 to #DV3014
WK_SDV_EC072	70	Change TC7WB125FK to TC7SB384FU,TC7WB126FK to TC7SB385FU due to cost reduction	WK_SDV_EC0147		Update #DV3123 description to CHIP 0.6UH +-20% 8.2A SMT 2PIN .
WK_SDV_EC073	55	Change C626,C627 to 0402.	WK_SDV_EC0148		Just correct/update description of schematic.
WK_SDV_EC074	59,61	Change F14 : ASM -> NOASM,C7073,C7074,C7075,C7076 from 470pf to 330pf.	WK_SDV_EC0149	23	Change J29 P/N to 42W3121.
WK_SDV_EC075	76	Change C99,C90,C233 from 1uF/16V -> 1uF/10V in order to reflect cap.	WK_SDV_EC0150		BOM correction /update
WK_SDV_EC076	86	U7.5 add MPWRG signal workaround for backup	WK_SDV_EC0151		BOM correction /update
WK_SDV_EC077	55	Remove MDI_DETECT circuit and Change the power source of Magnetics from VCC1R8AUX to VCC2R5M.	WK_SDV_EC0152		Correction of Schematics description
WK_SDV_EC078	53	Modify NVRAM strapping and Connect ENERGY_DET to MDI_DETECT.	WK_SDV_EC0153		Change C11 from 0.01uF to 0.022uF for Capacitance of B_DRV being 0.05uF
WK_SDV_EC079	53	Change BCM power source and add some decoupling Cap.	WK_SDV_EC0154		to change Integ GFXCORE DC-DC in order to meet Intel GMCH spec.
WK_SDV_EC080	53	VMAINPRSNT connects VCC3B through R7029,LOW_PWR connects -GBE_DISABLE,Add 0ohm on LAN_XTALI.	WK_SDV_EC0155	91	Change R72 to NO_ASM to prevent power shutdown problem when AC is attached.
WK_SDV_EC081	92	Add VCC1R2M Logic for Broadcom BCM5787M support	WK_SDV_EC0156	46	Change R984 to 10k 5%.
WK_SDV_EC082	93	Add VCC2R5M Logic for Broadcom BCM5787M support			
WK_SDV_EC083	86,87,91,93	Delete VCC1R8AUX and VCC1R8M,ADD VCC1R8A.			
WK_SDV_EC084	72	Make device option for G-SENSOR.			
WK_SDV_EC085	32	Follow EC043 correct some singnal.			
WK_SDV_EC086	92	Del Q86 for del VCC3VIDEO power.			
WK_SDV_EC087	32,64	ADD -PHY_PD_ICH signal then use it and -GBE_DISABLE to generate AUX_ON.			
WK_SDV_EC088	7	Del R135,R387.			
WK_SDV_EC089	64	Change SPI interface signal jumper resistor from 0 ohm to 33 ohm.			
WK_SDV_EC090	85	Add pull-down resistor on Gfx_VID signal.			
WK_SDV_EC091	11	change R772 to 100k +-5%,change R7071/R7072 to 33 +-5% for cost reduce.			
WK_SDV_EC092	38	change FL7 to ACM2012-900-2P,R650/651 to 0 ohm 0603.			
WK_SDV_EC093	10	Add R7073/R7074 on GFXCORE_ON signal for INTEL comment.			
WK_SDV_EC094	50	Change PCMCIA Slot to new one.			
WK_SDV_EC095	80,93	Change Q12.1 to VCC1R8A,add R7064 0ohm between U3.7 to U3.6,del R373 and VCC1R8M_ON signal.			
WK_SDV_EC096	53	Correct the broadcom lan circuit,like change Ferrite bead to bigger type.			
WK_SDV_EC097	31,32,64	Terminate opened pin and unused pin on ICH8M, and del -GBE_DISABLE net.			
WK_SDV_EC098	84	Delete of VCC1R05M power rail.			
WK_SDV_EC099	84	Change assignment of PC card slot connector.			
WK_SDV_EC100	19,33,54	Modify PCIE interface of BCM5787M,remove Robson interface.			
WK_SDV_EC101	63	Del C631 and C636 on the FPR USB lines.			
WK_SDV_EC102	54,57	Add bypass capacitors for VCC3B at miniPCIE slots.			
WK_SDV_EC103	32	Change R7006 from NO_ASM to ASM.			
WK_SDV_EC104	52,53,54,57	Change MID* netname to MDI* ,correct PCIE slot connect,add Lan eeprom table.			
WK_SDV_EC105	37	Del CD_IN function on ODD.			
WK_SDV_EC106	23	Change R7083 to 130 ohm,D7006 to SML_A10MT.TC7WB125AFK to TC7SBL384AFU.			
WK_SDV_EC108	32	Correct 4_in_1 slot ID.			
WK_SDV_EC109	91	Enable Rinkan_1 -LPMORE function.			
WK_SDV_EC110	53	Follow WK_SDV_EC096. Add strap option for Broadcom.			
WK_SDV_EC111	50	Delete VCC3_MC at PC card slot.			
WK_SDV_EC112	23	Add comments for xd function route.			
WK_SDV_EC113		Location ID to be consistent to DaVinci-3.Only change Location IDs . NO CHANGE in connection in schematics.			
WK_SDV_EC114	86	Change L11 to CDRH104R_IR5UH_10A follow DV3.			
WK_SDV_EC115	31,53	Connect LAN_RSTSYNC on ICH8 to GND,and modify LAN strapping table.			
WK_SDV_EC116	45,46,61	Add beep enable circuit and correct connection.			
WK_SDV_EC117	53	Add pull-up resistor R7097 for EEPROM WP signal.			
WK_SDV_EC118	23	Change J29 to Tyco from FOXCONN.			
WK_SDV_EC119	85	Correct discription.			
WK_SDV_EC120	85	Change R7062 rename to R212.			
WK_SDV_EC121	86	Del R17 and not connect MPWRG on U7.5 PIN			
WK_SDV_EC122	23	Correct slot pin.			
WK_SDV_EC123	38	R650/R651 marge to 1 network resistor RN5.			
WK_SDV_EC124	52,53,55	Change pin definition of T1/T2/U12.			
WK_SDV_EC125	61	Change RN54 to discrete resistor .			
WK_SDV_EC126		Parameter change and Error Correction.			
WK_SDV_EC127	84	R598,R601,C819,C820 Part value change.			
WK_SDV_EC128	58	DEL U53,U6 function for Live SPI rom one chip only.			
WK_SDV_EC129	95	No asm R996,Q64 change LPMODE EC.			
WK_SDV_EC130	52	ADD C637 ASSEMBLE STATION ON TABLE.			
WK_SDV_EC131	45	Move Panasonicamplifier from planar layout to dummy subcard.			
WK_SDV_EC132	36	BOM change,J1 change to HAS1-2DFB12-51K.			
WK_SDV_EC133	81	BOM change,ADP3209 update to X5 version.			
WK_SDV_EC134	81	Change C482 to R1072 for use ADP3209 X5.			
WK_SDV_EC135	61	Change R1042 to 10K 5%.			
WK_SDV_EC136	91	Change C609 1U 0603 to 2.2U 0805 for prevent power shutdown when AC Adapter attached.			
WK_SDV_EC137	41	Disconnect U8 centerpad from AGND.			
WK_SDV_EC138	53	Add test point to U8 pin4,8,9.			
WK_SDV_EC139	52	RC termination should be NO_ASM.R611, R613, R615, R661, R610, R612, R660, R614, C528, C532, C527, C529 -> NO_ASM			
WK_SDV_EC140	56	Please stuff the TVS diode D103,D104 of Ethernet.			
WK_SDV_EC141	53	Change U7003 to 24C64 for the evaluation on DV4.After the evaluation without any issue, we plan to use 24L01 for Volume production			
WK_SDV_EC142	45	Change R655,R833,R700,R66 to 47K 5%,R67 No_asm.			
WK_SDV_EC143	85	Change ADP3209 X5 P/N to #DV3190.			

		LENOVO.PND NB system design section	
Title PTH SCREW HOLES			
Size Custom	Document Number WAIKIKI		Rev s1.1
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