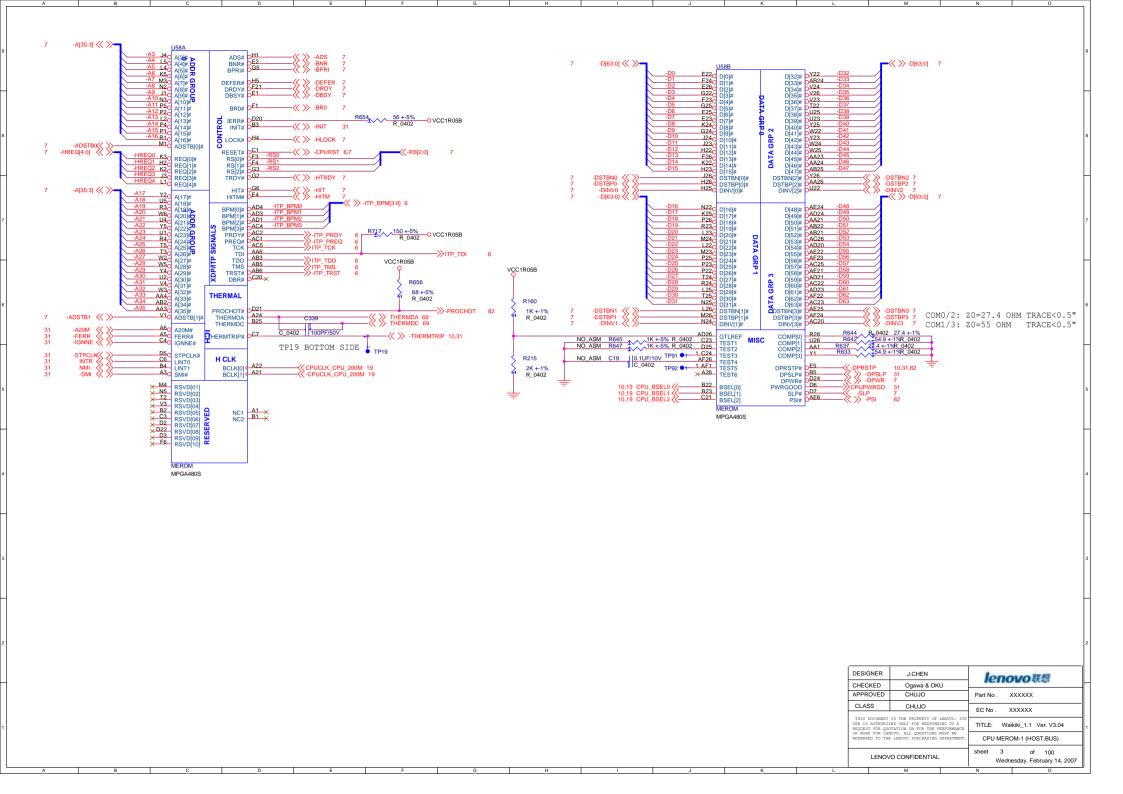
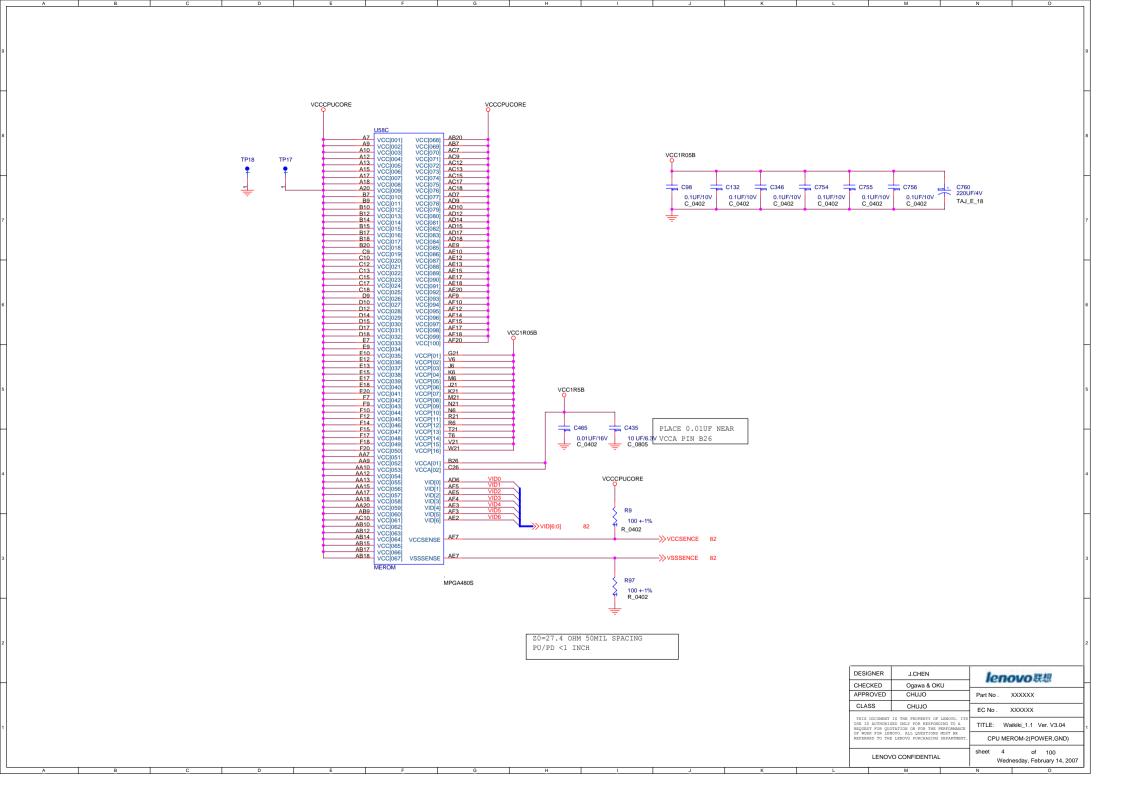
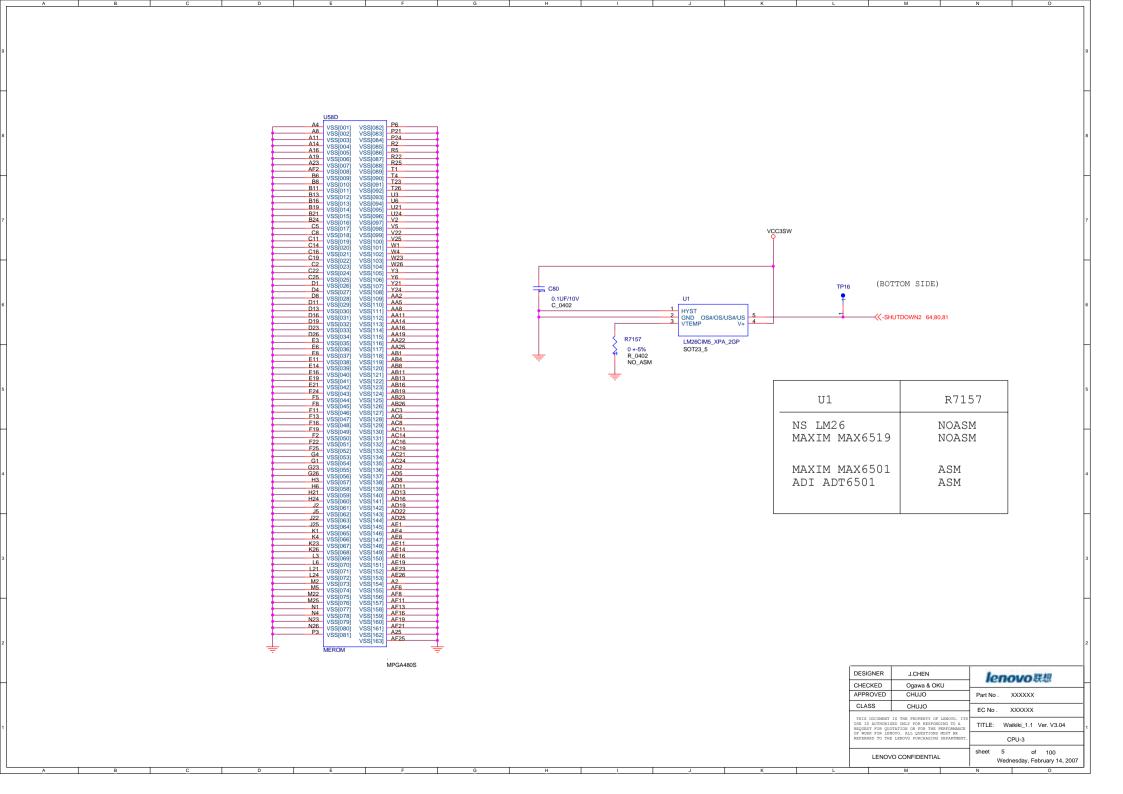
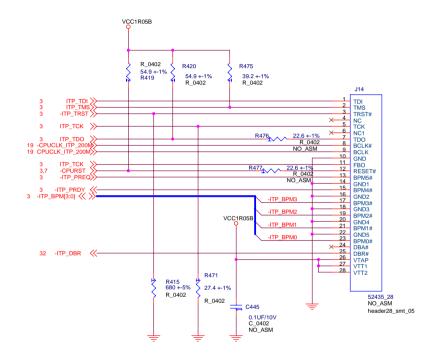


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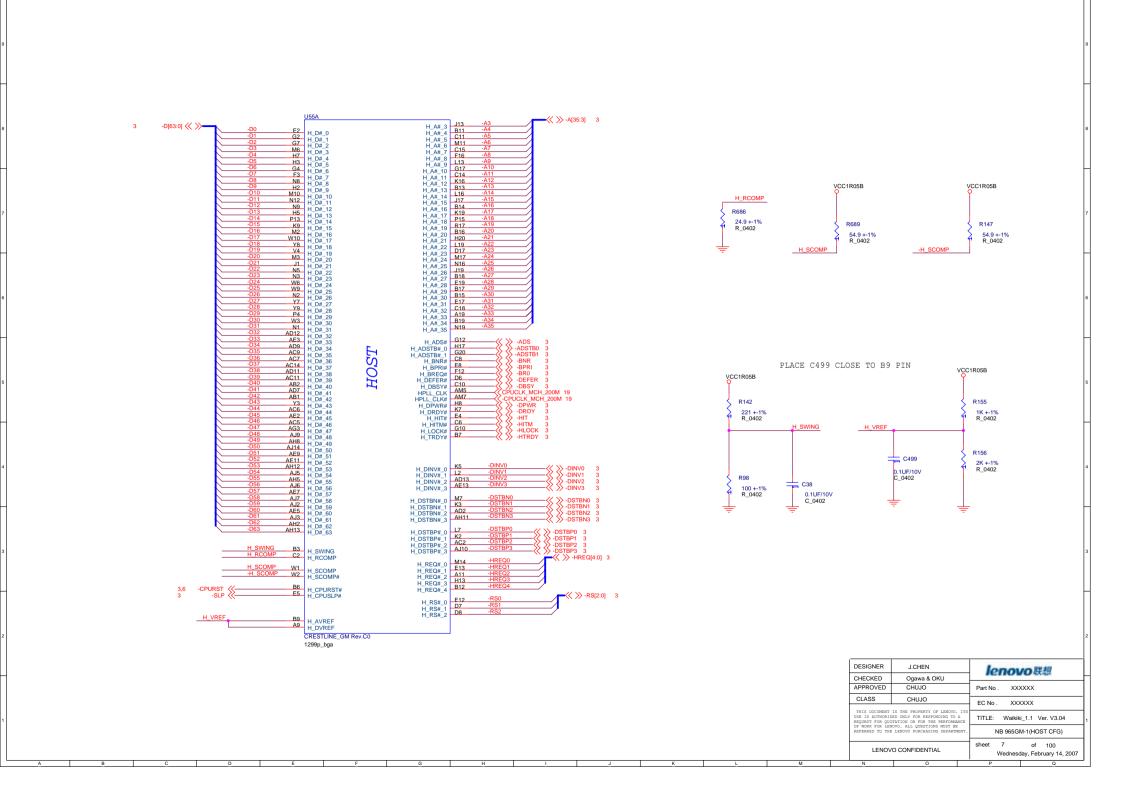


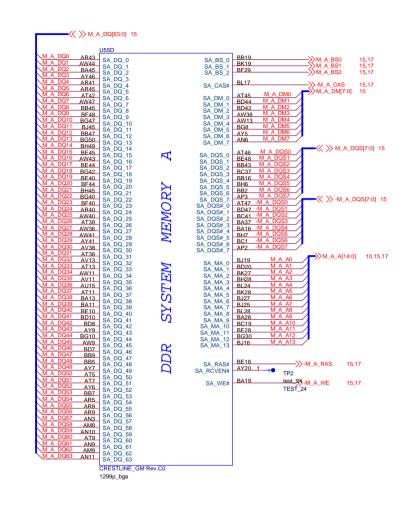
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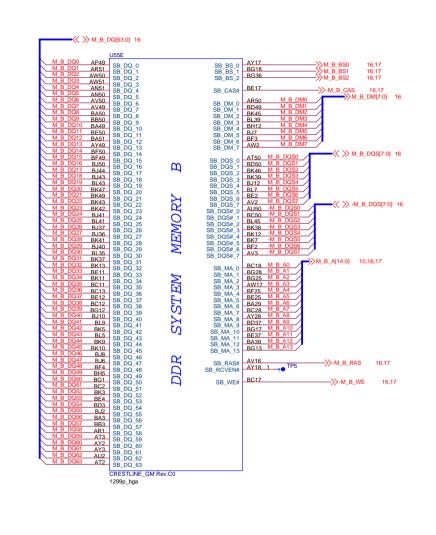
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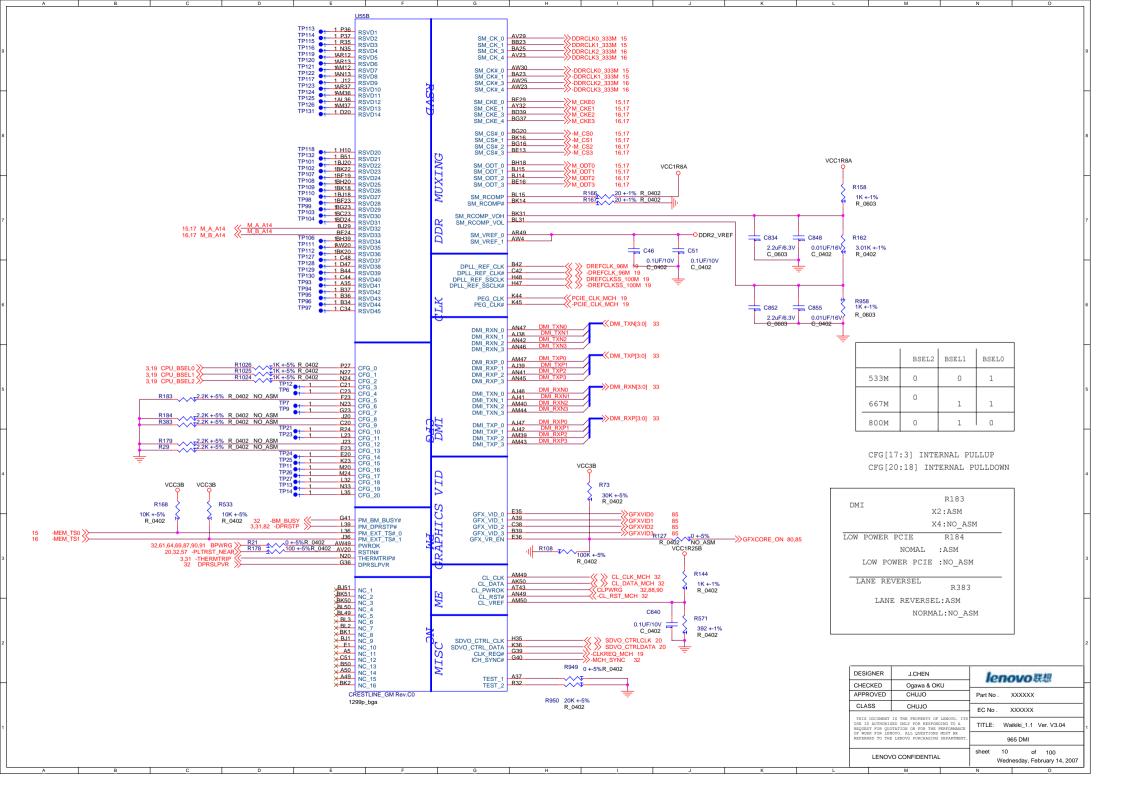


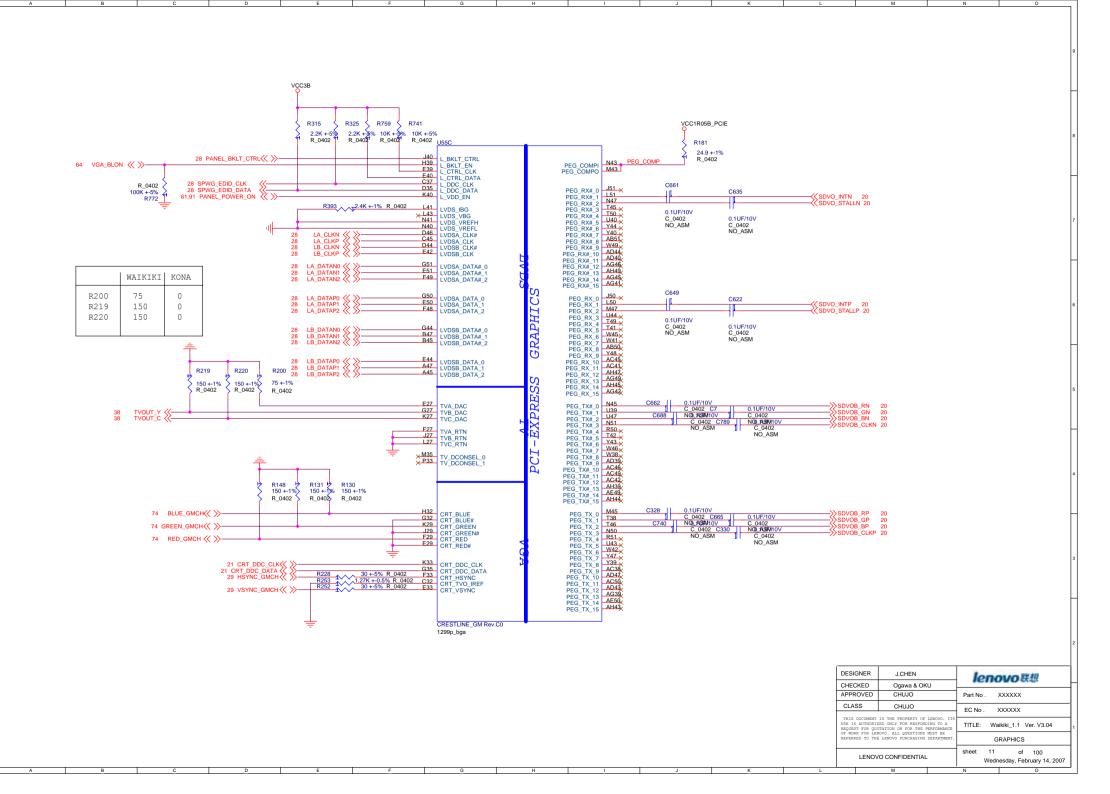


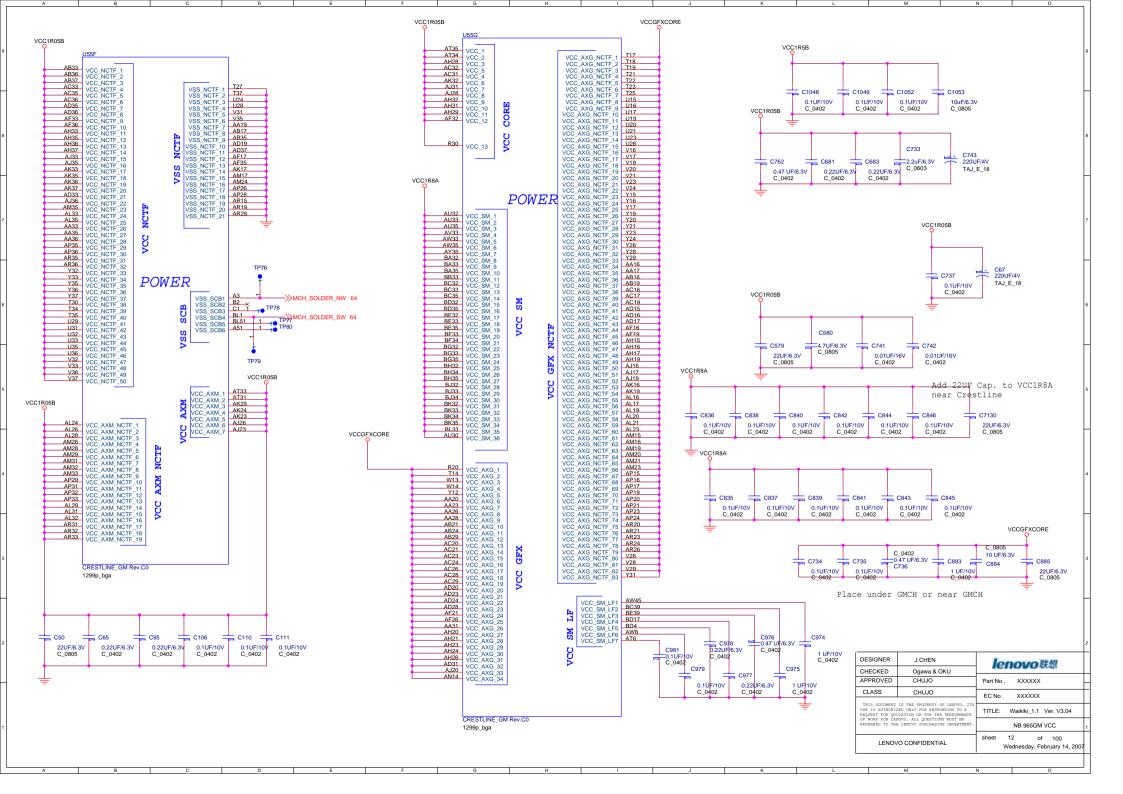
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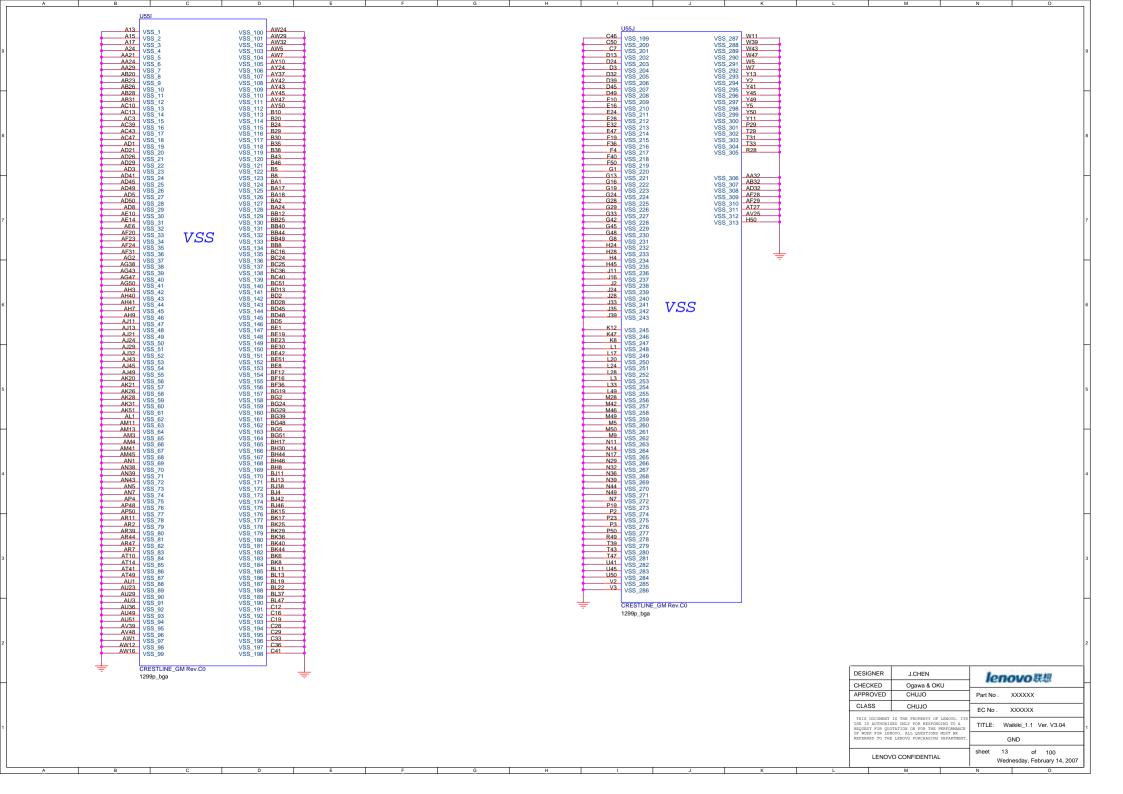


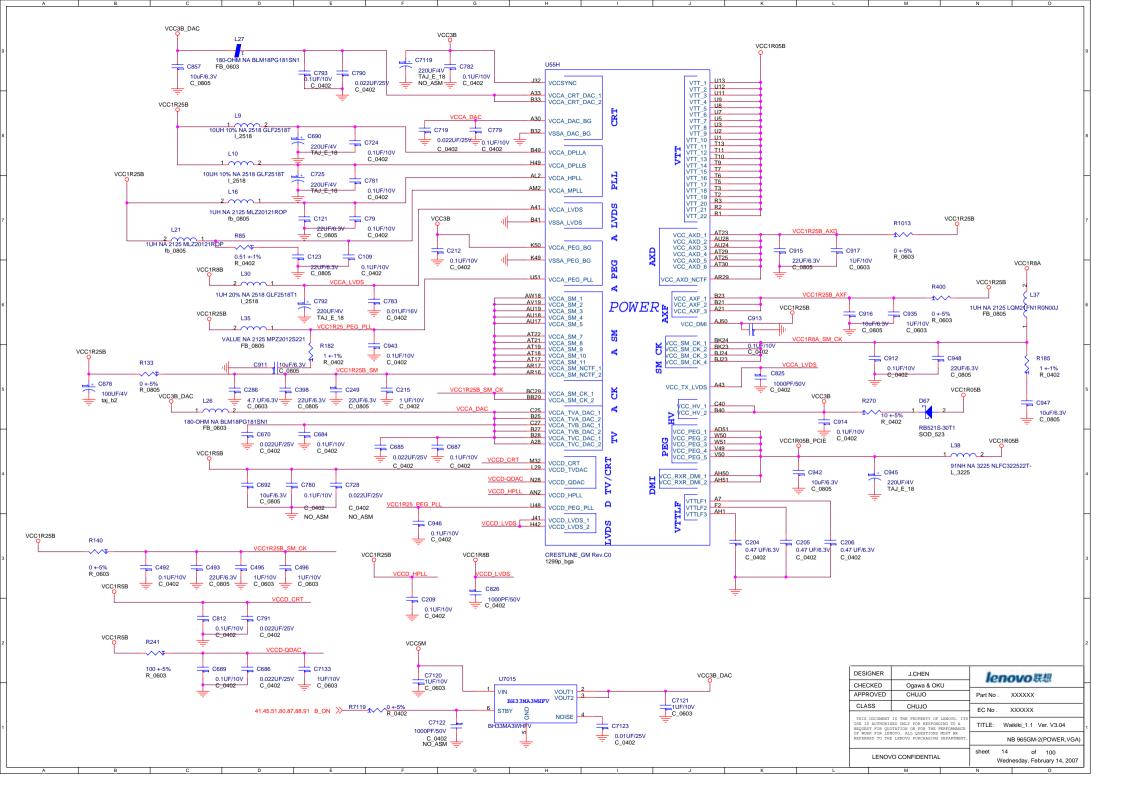
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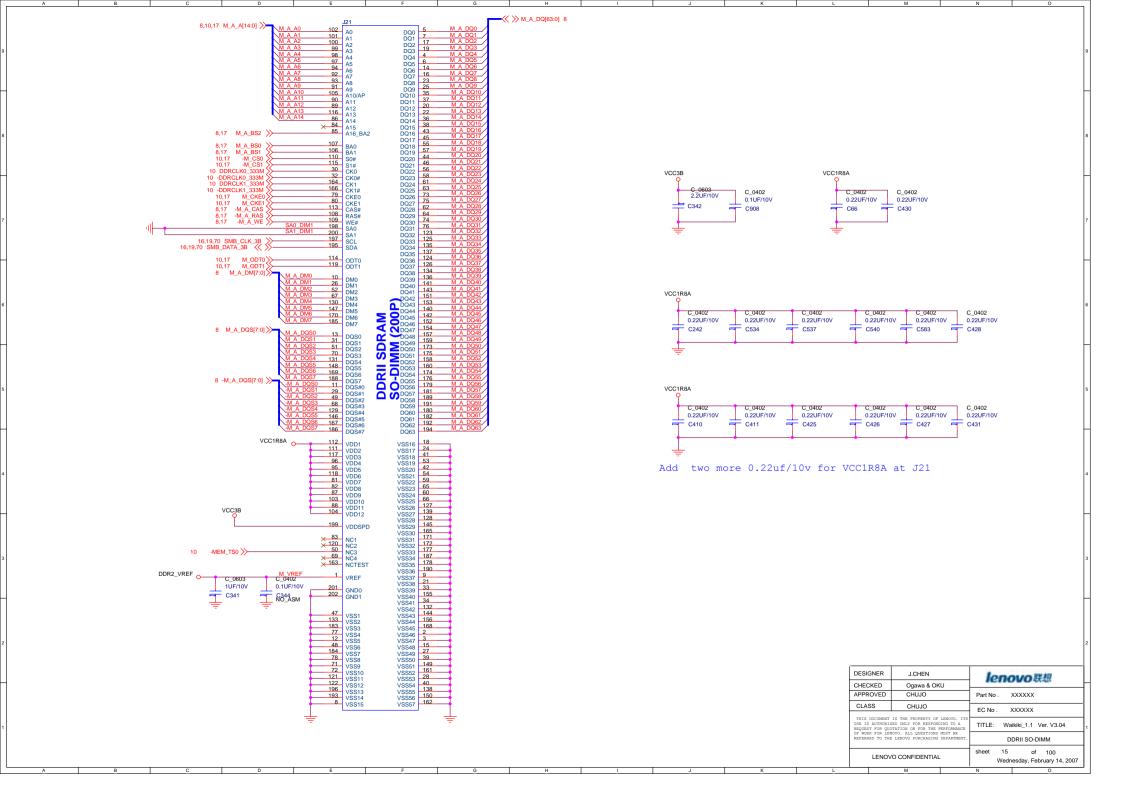


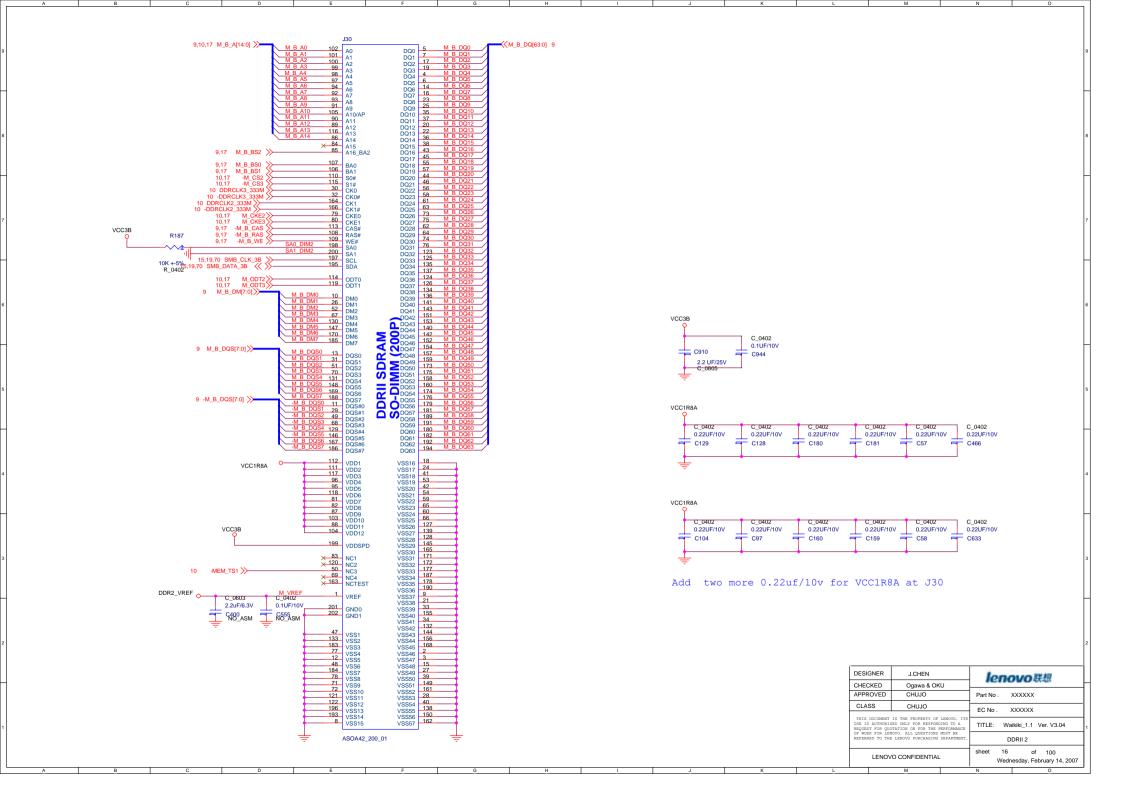


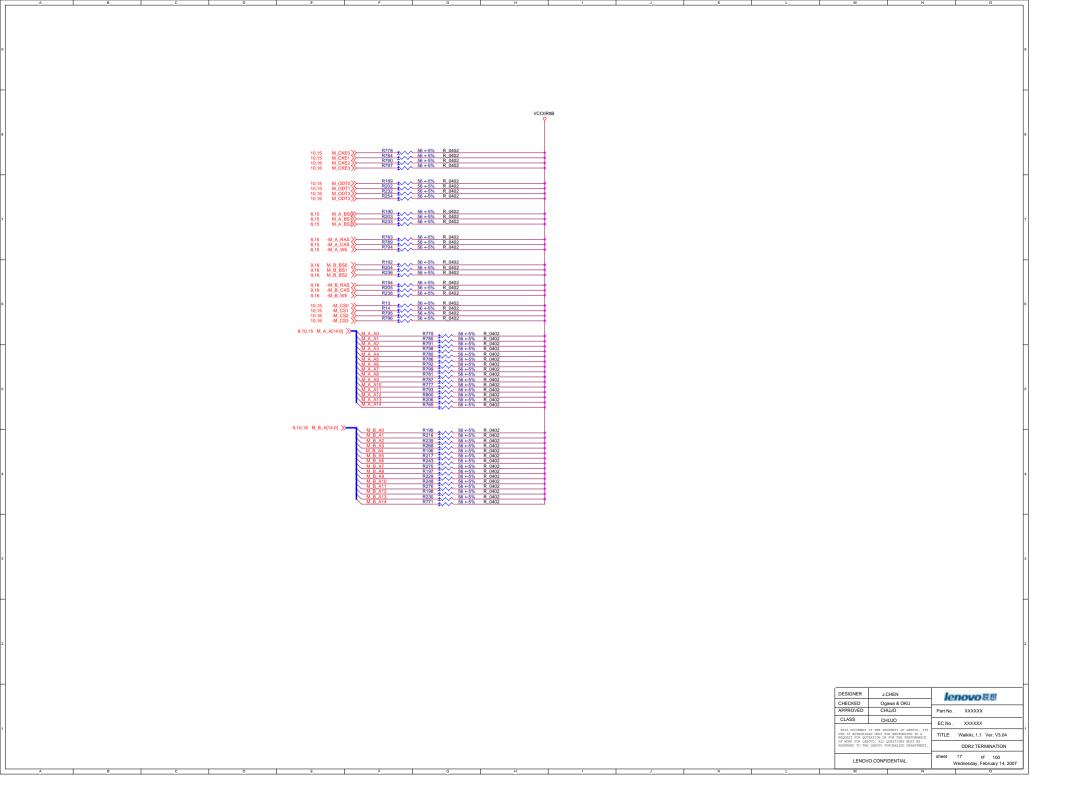


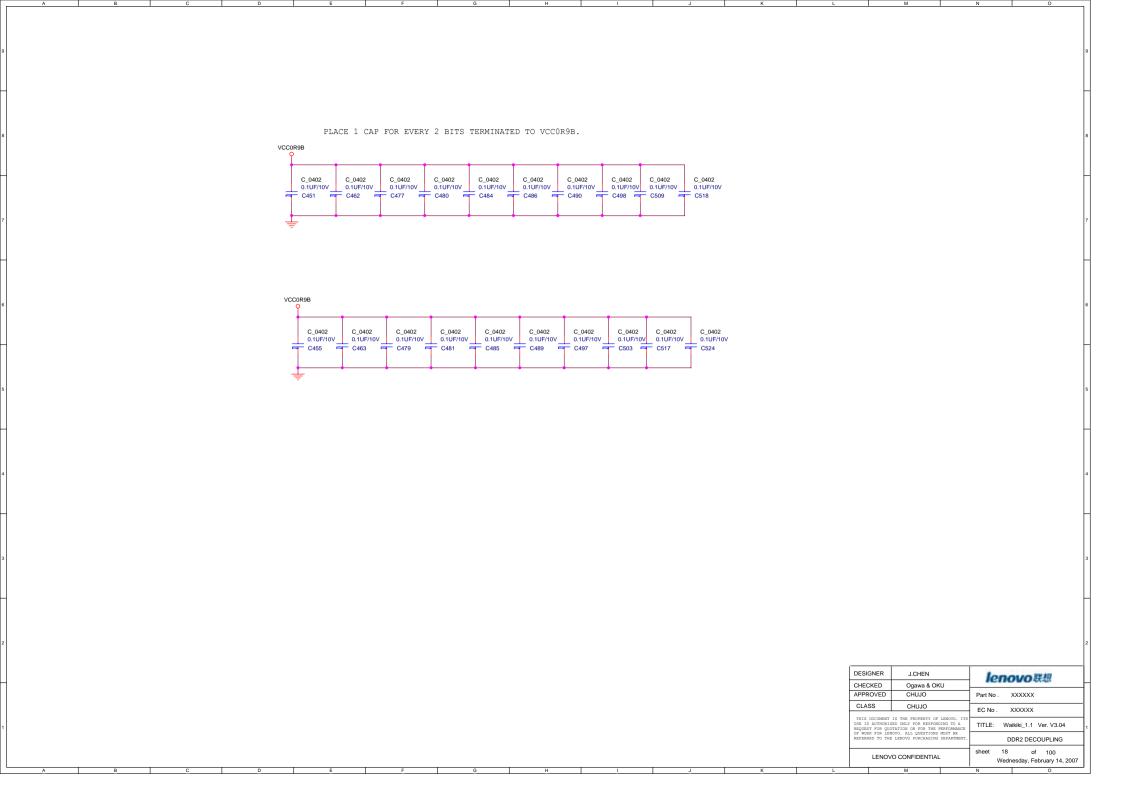


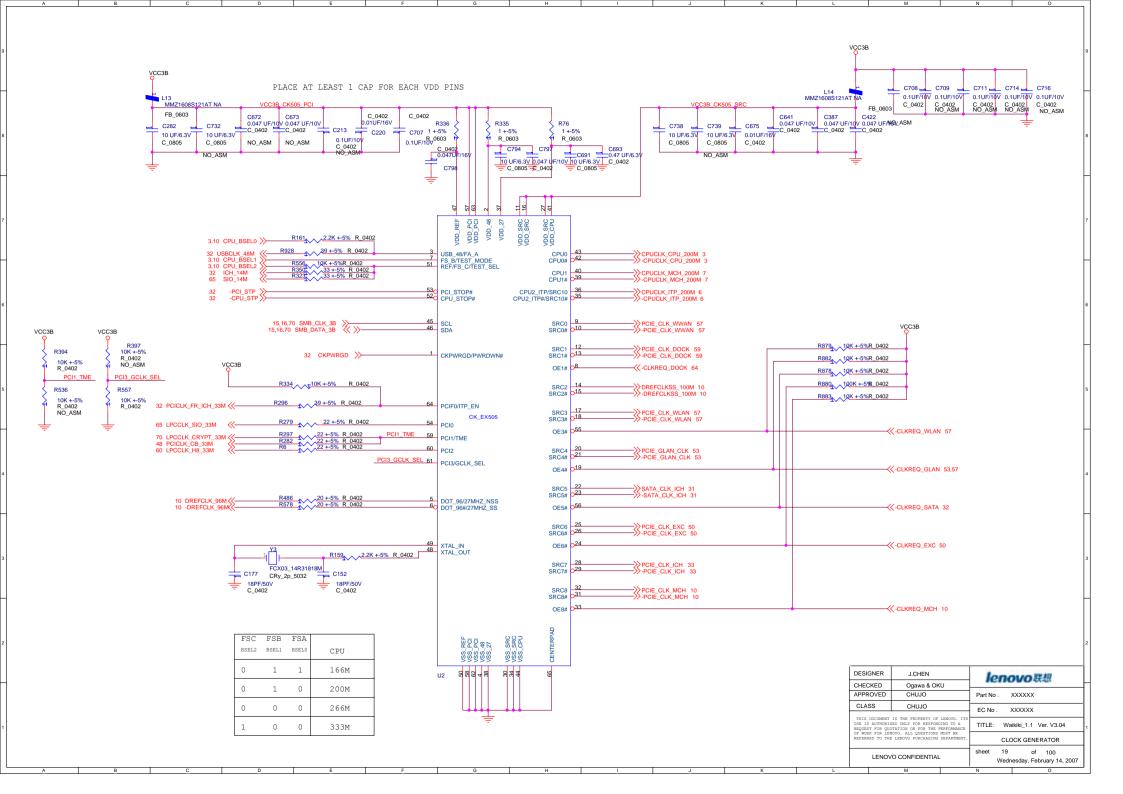


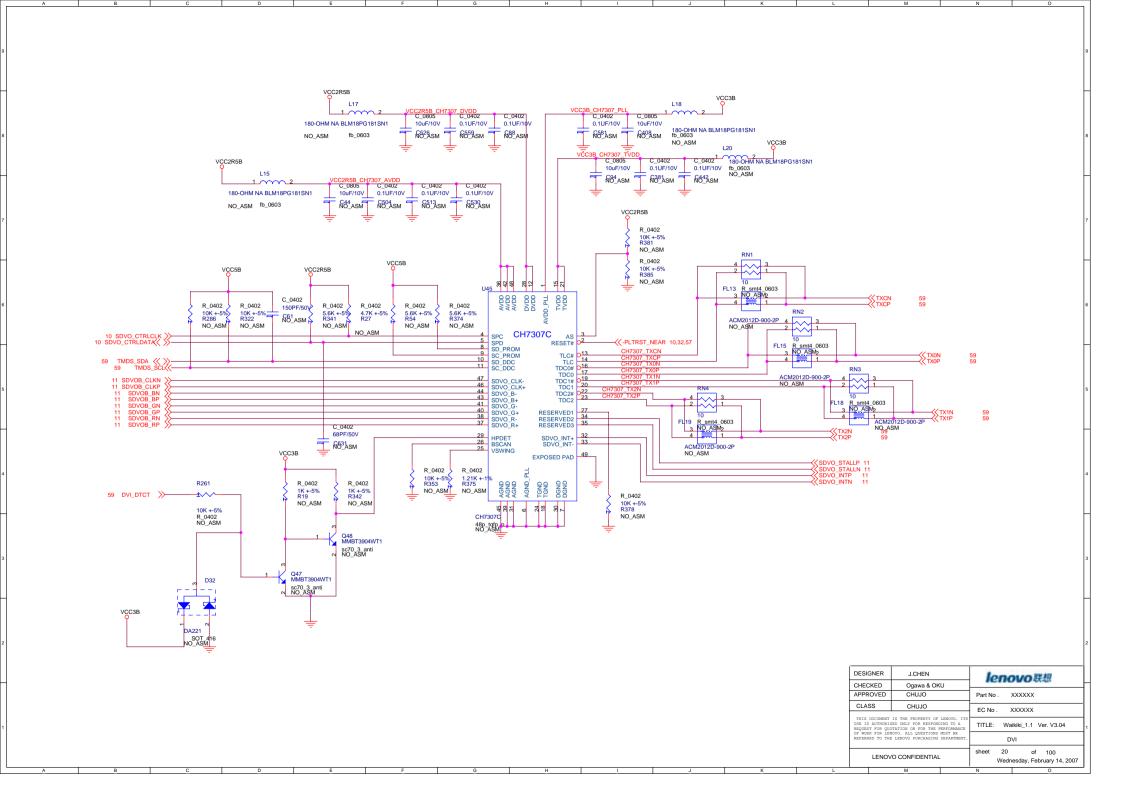


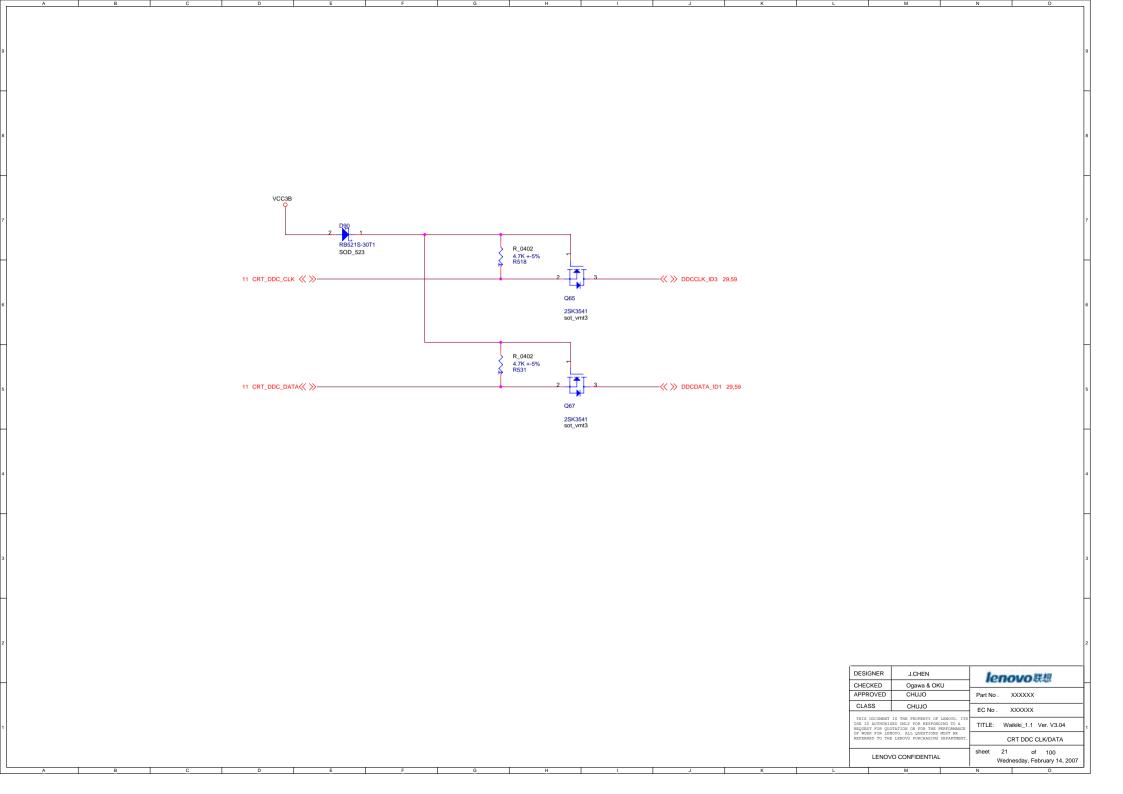


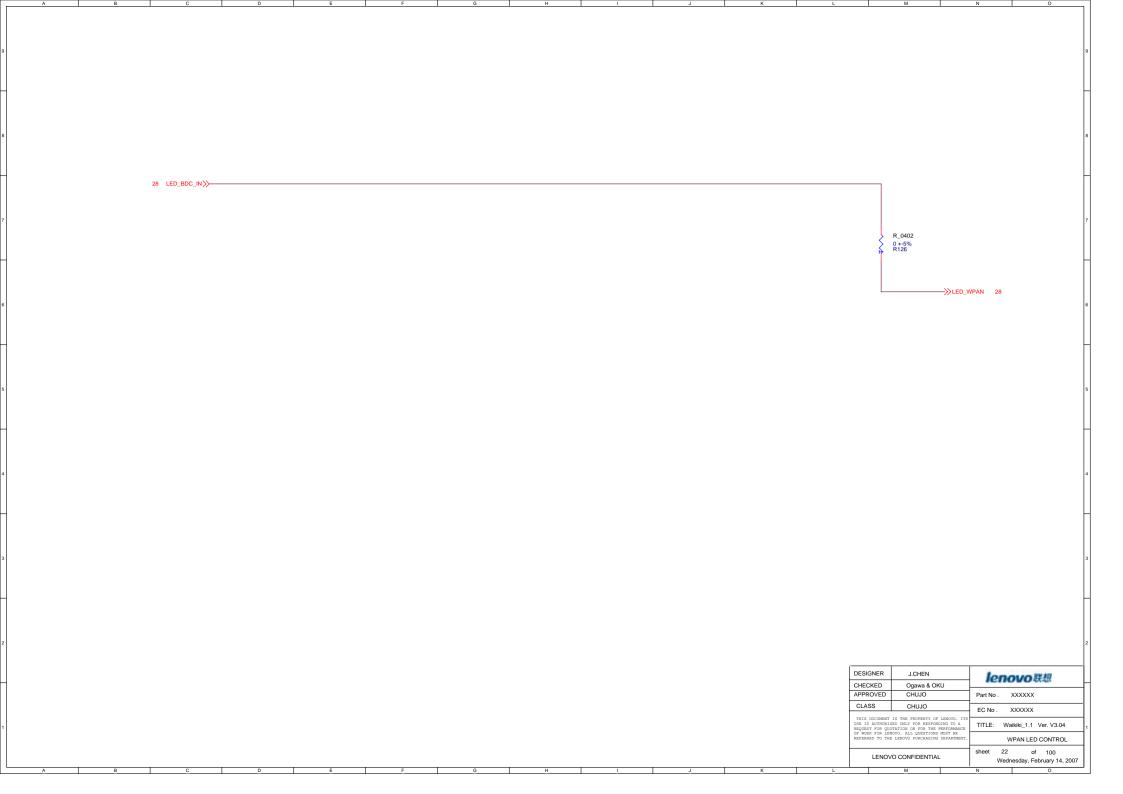


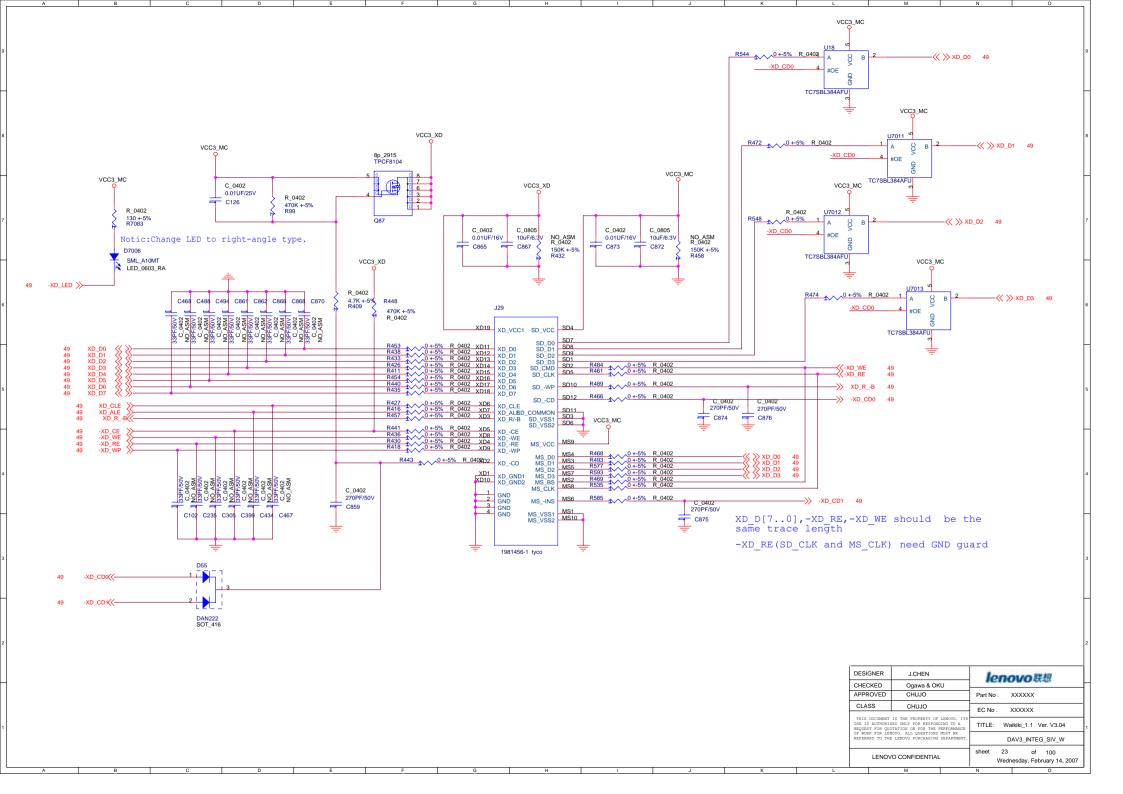










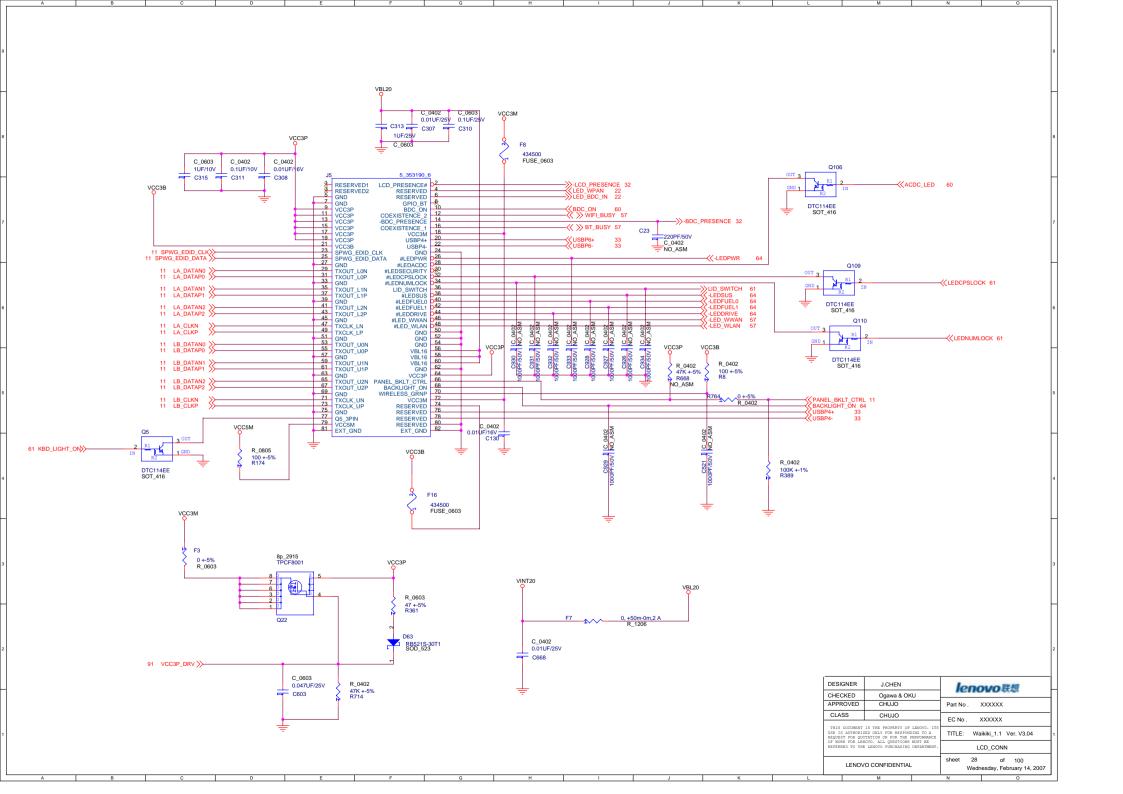


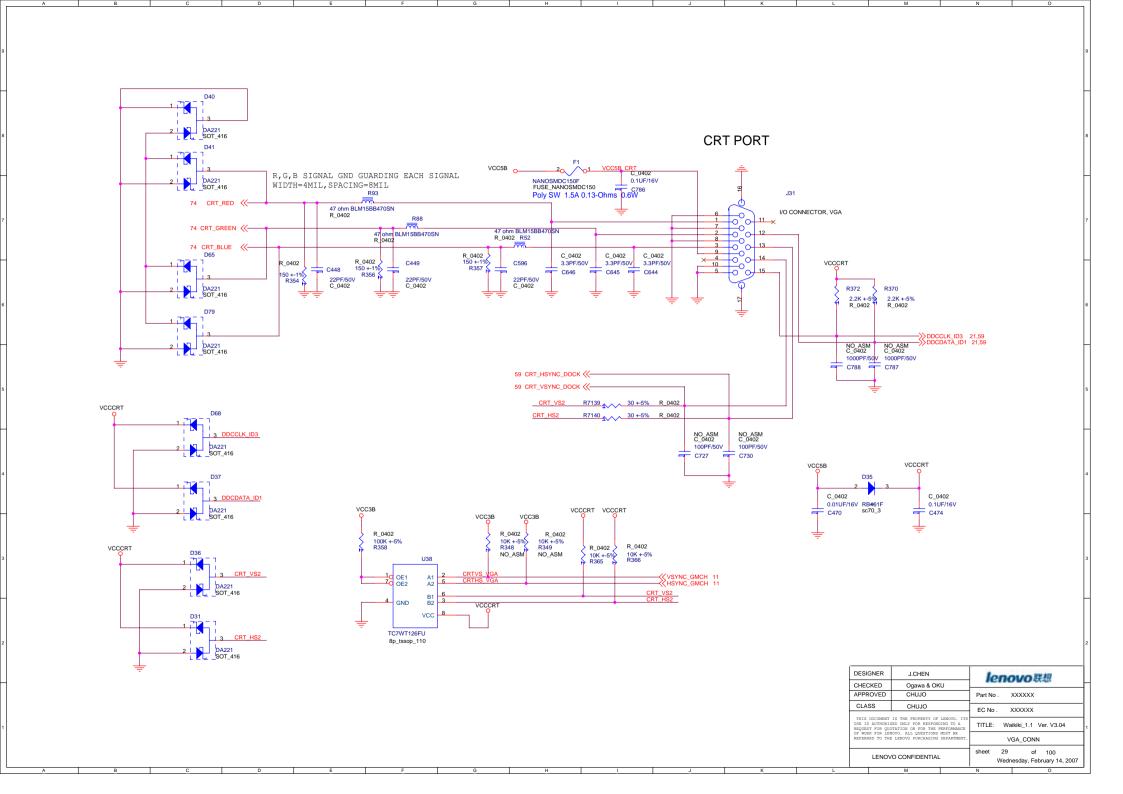
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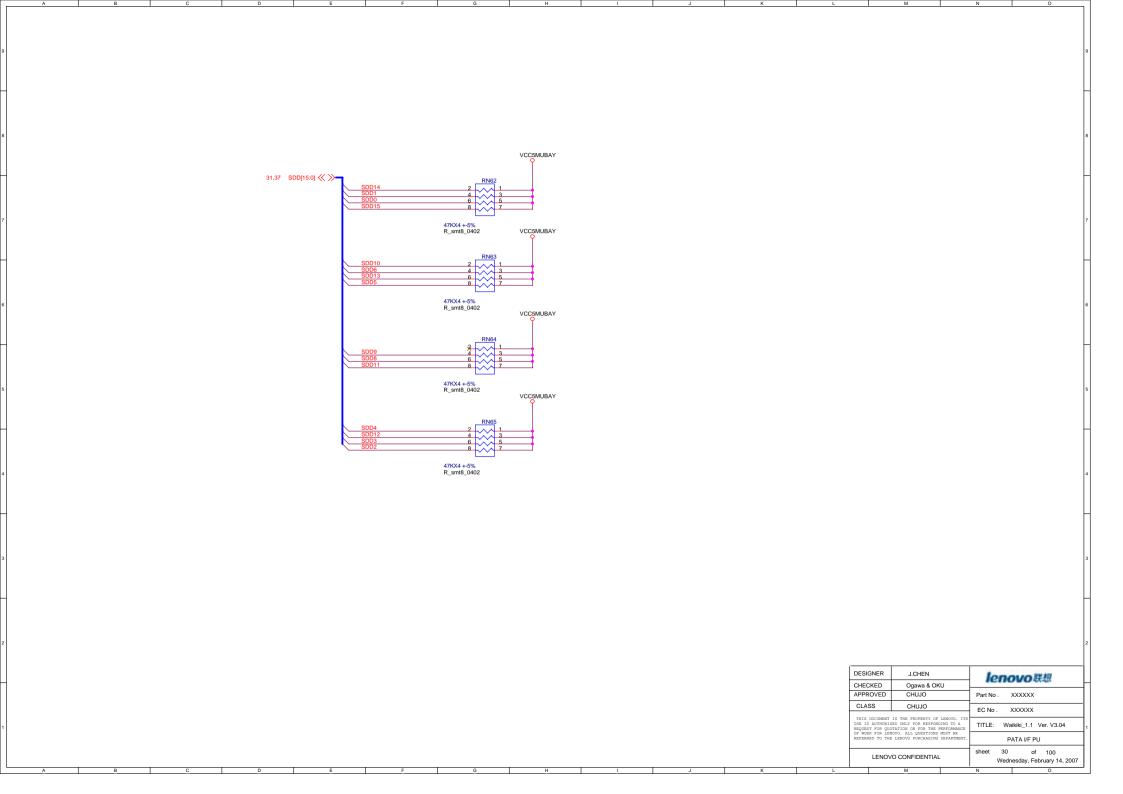
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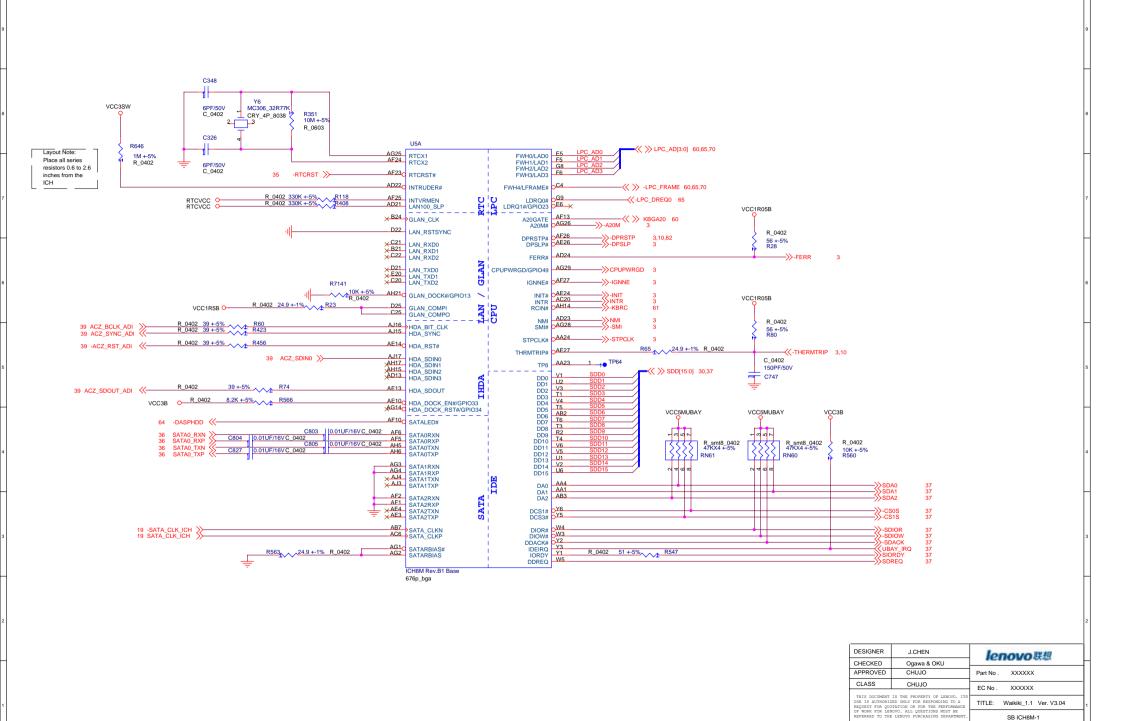
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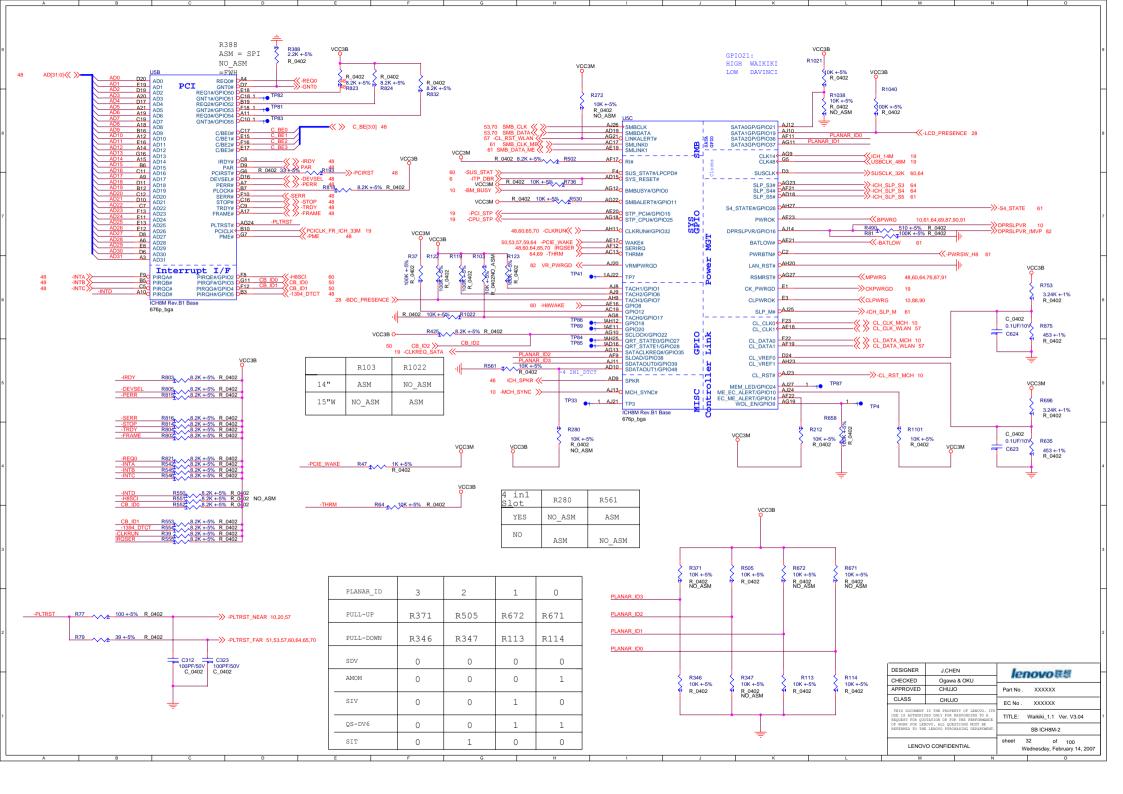


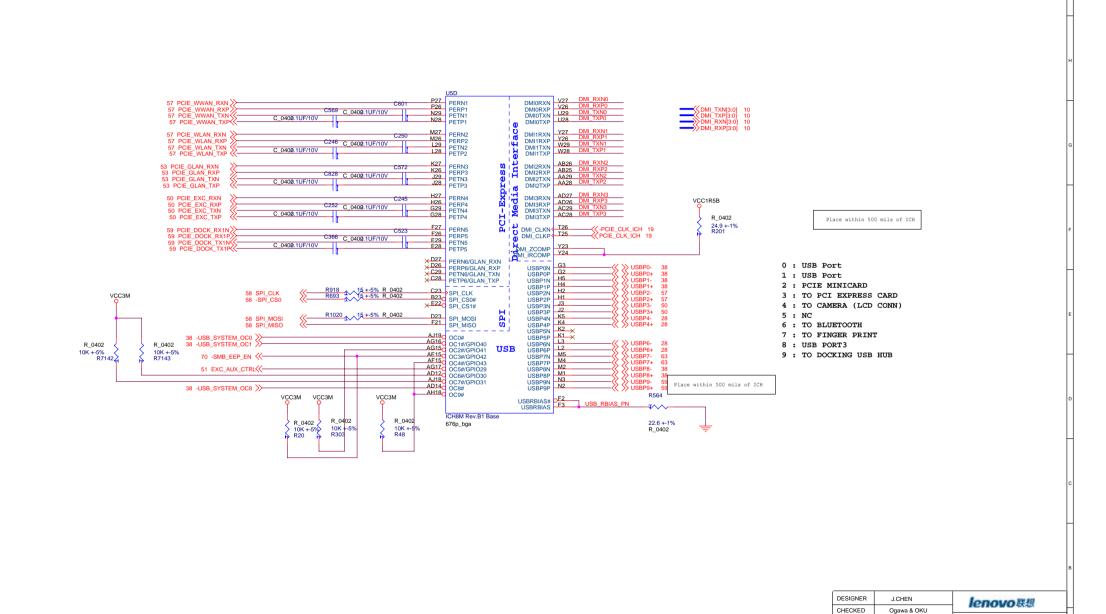
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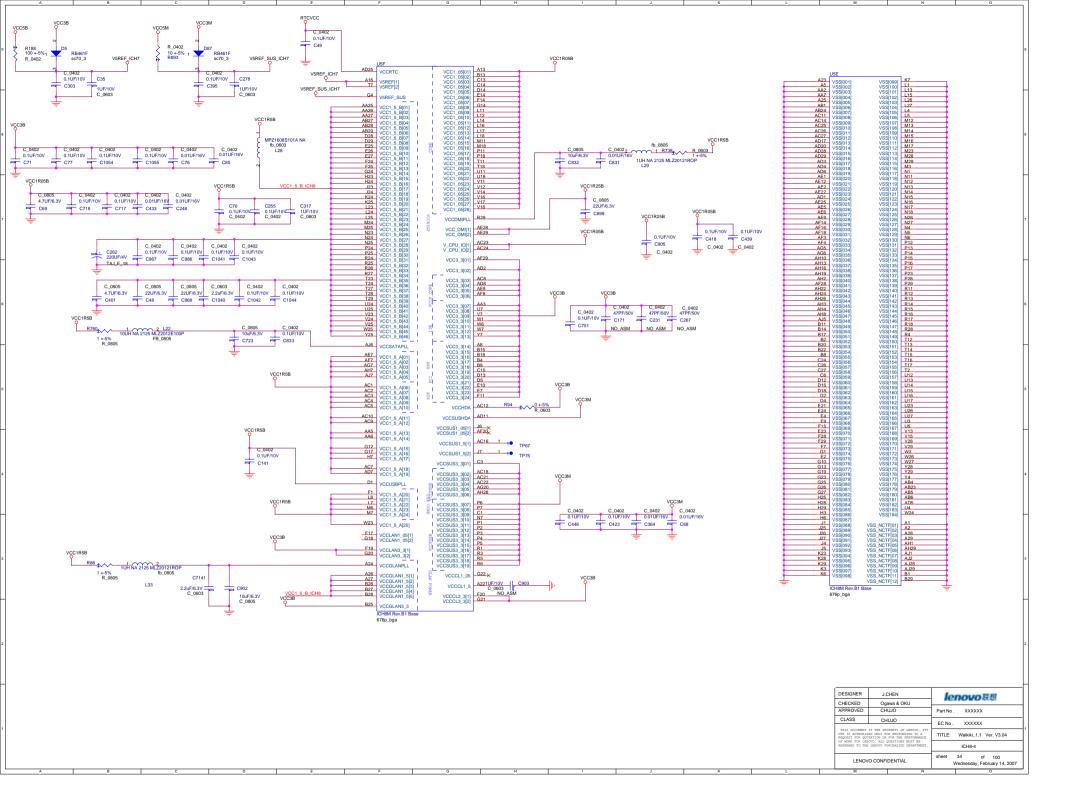
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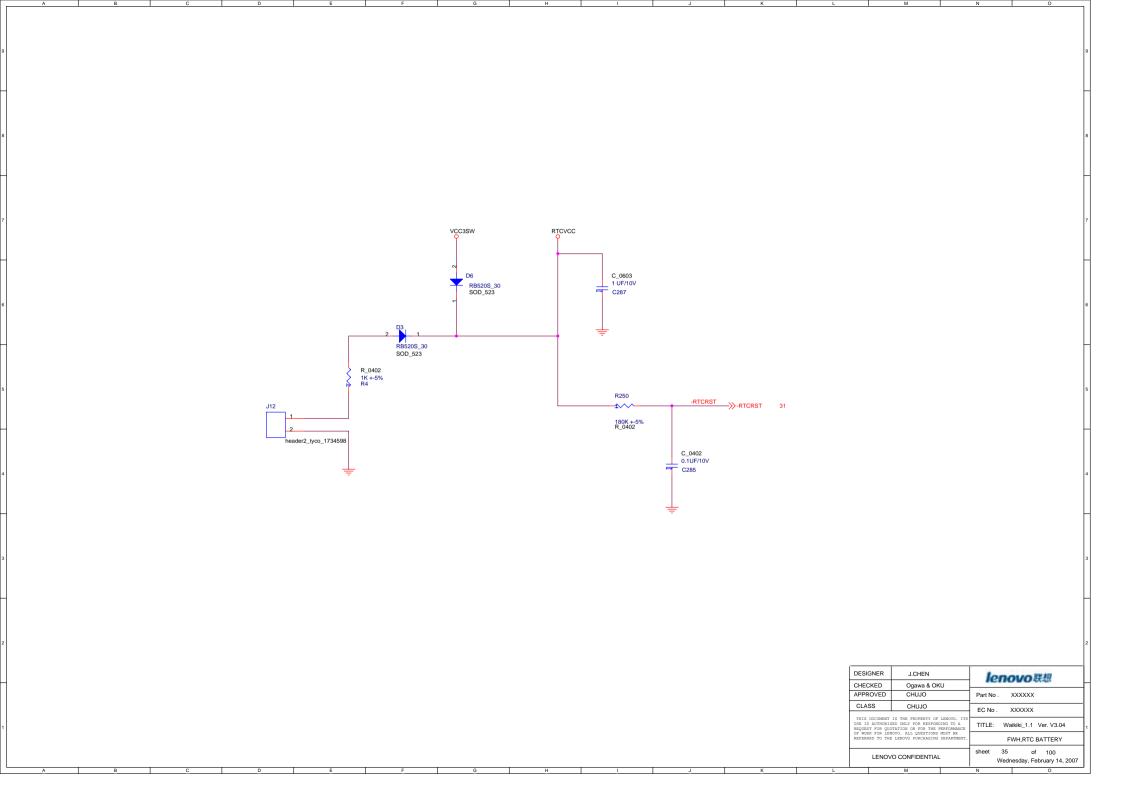
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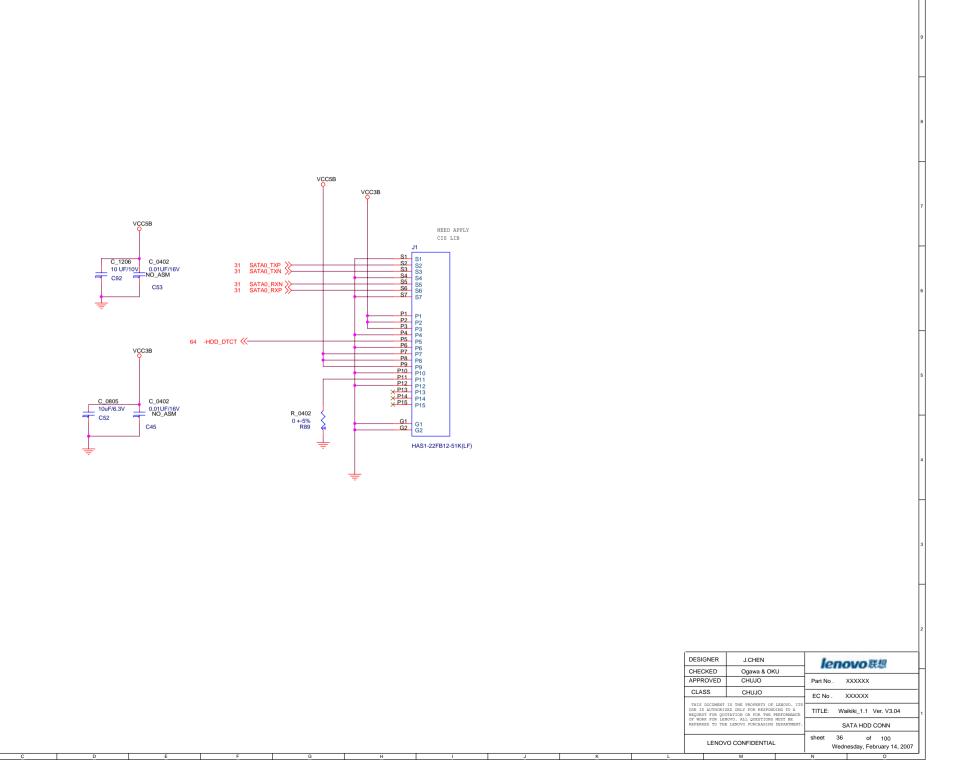
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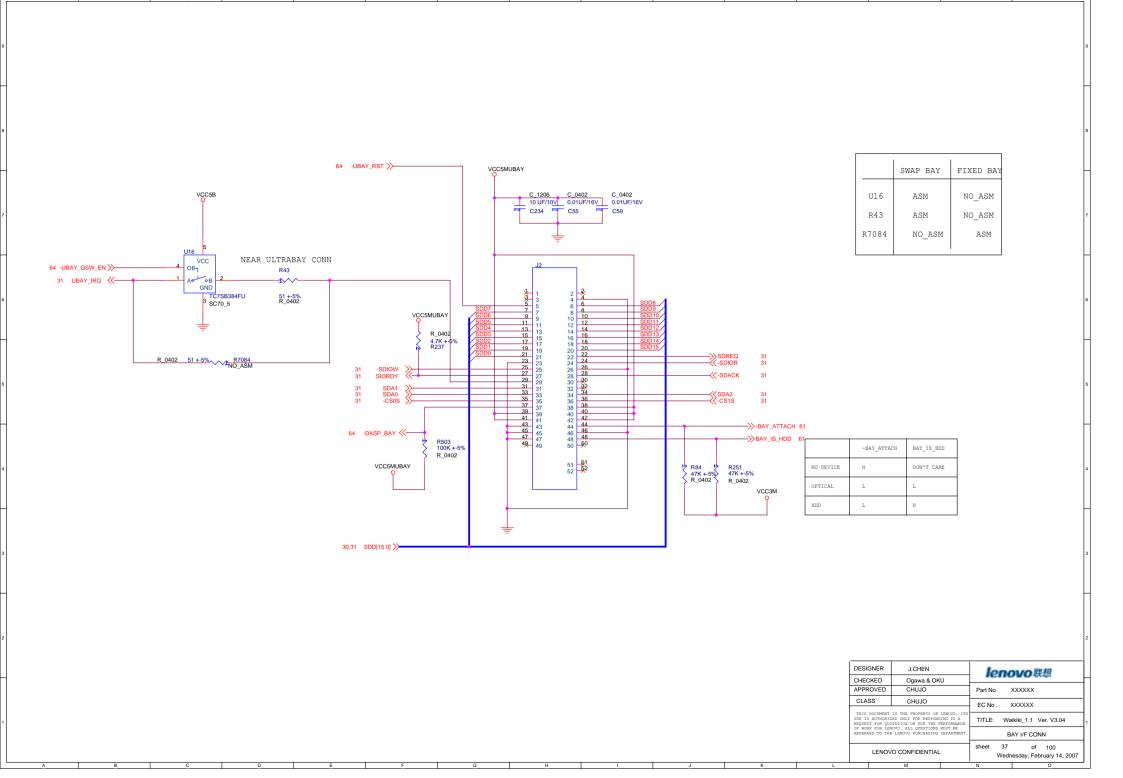
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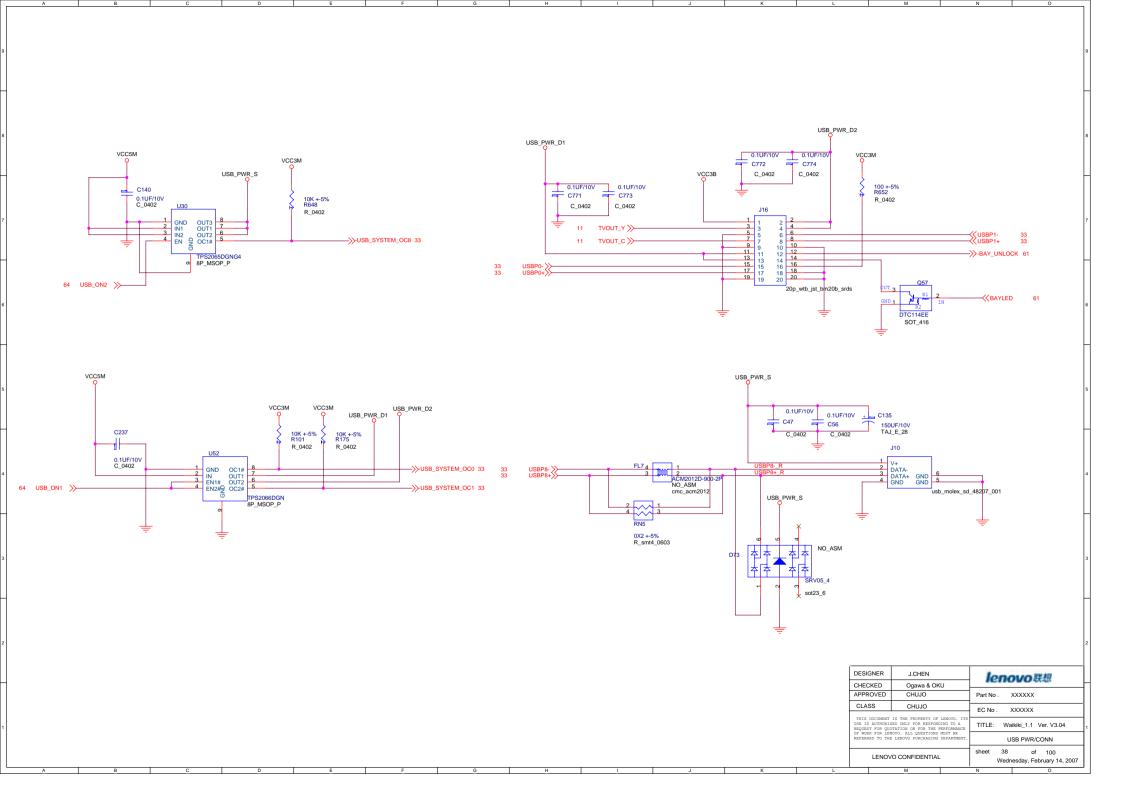
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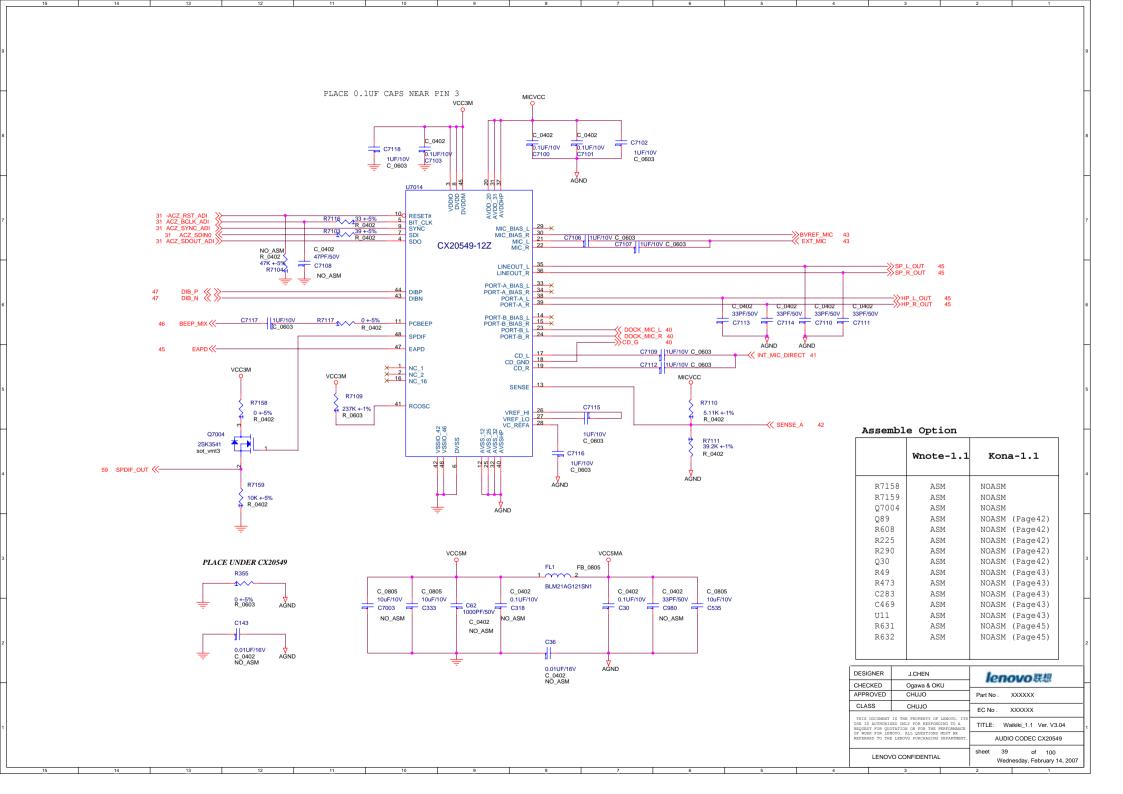


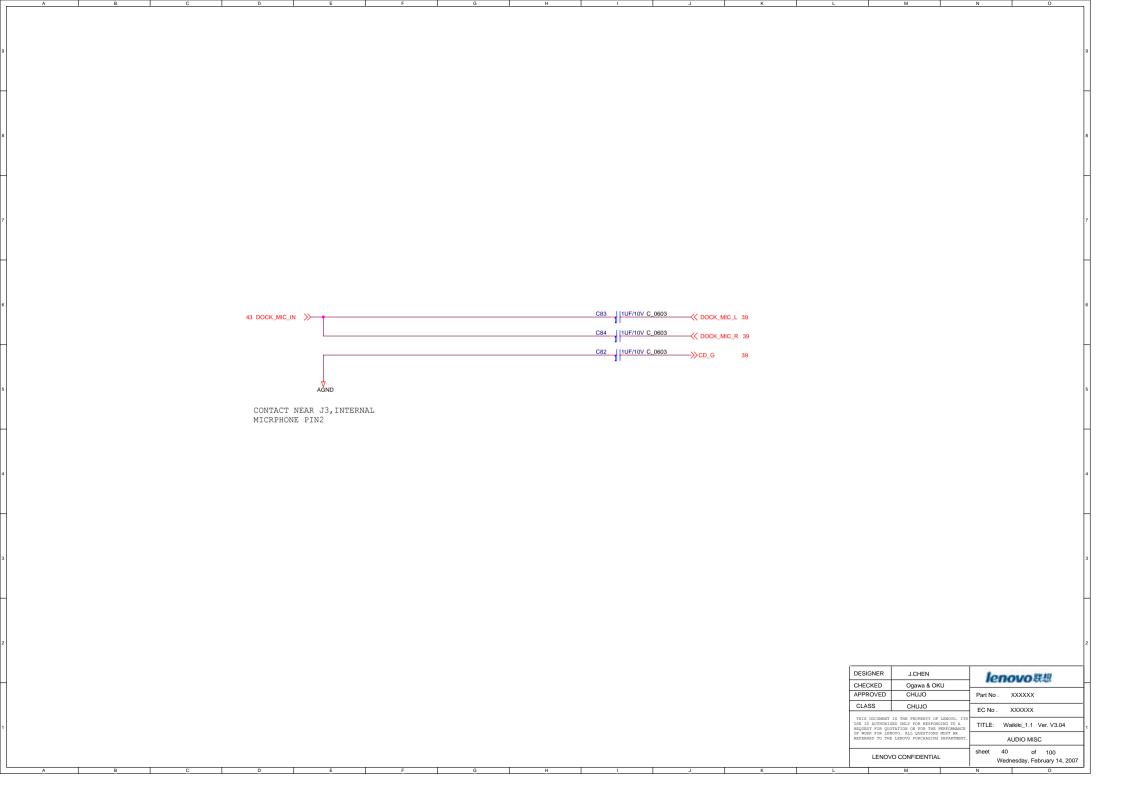


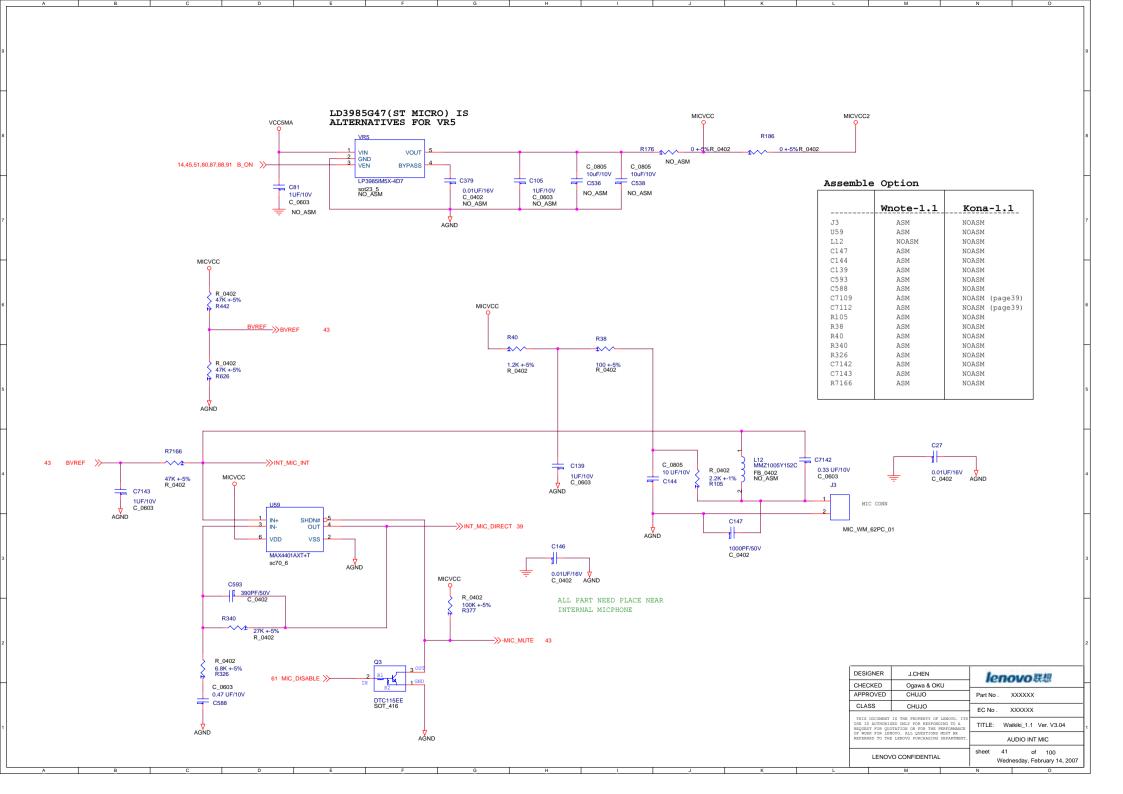


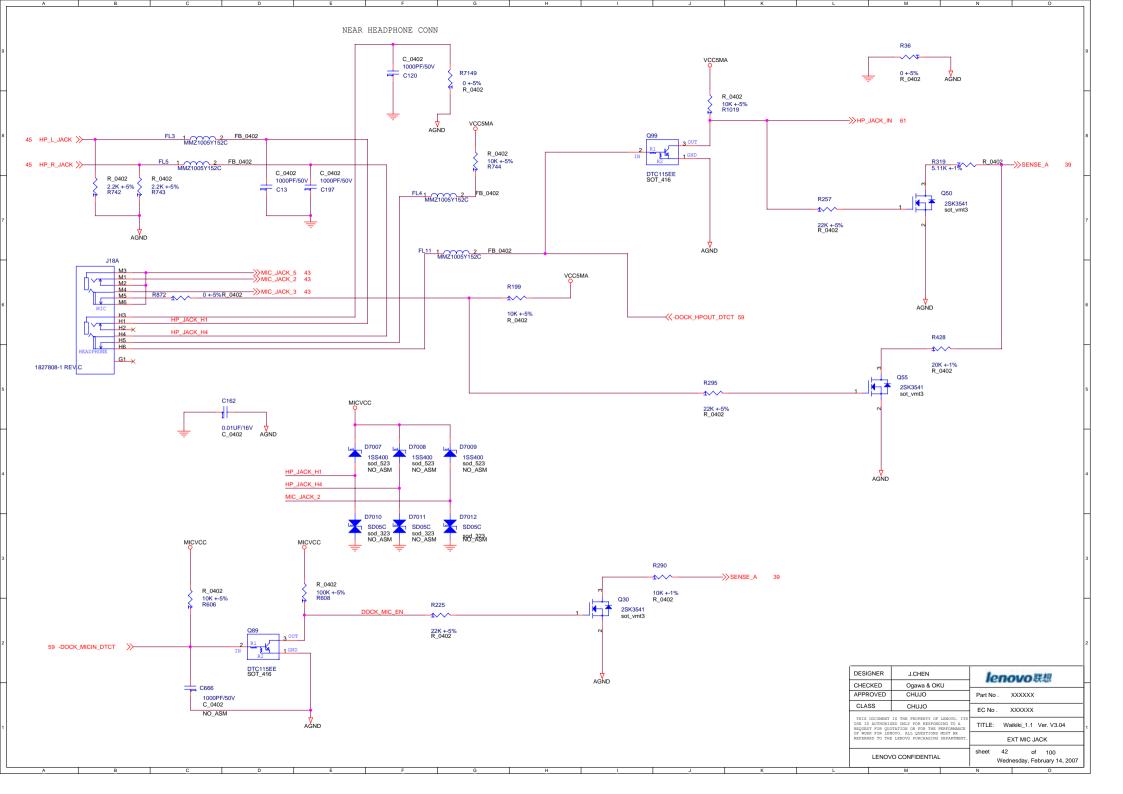


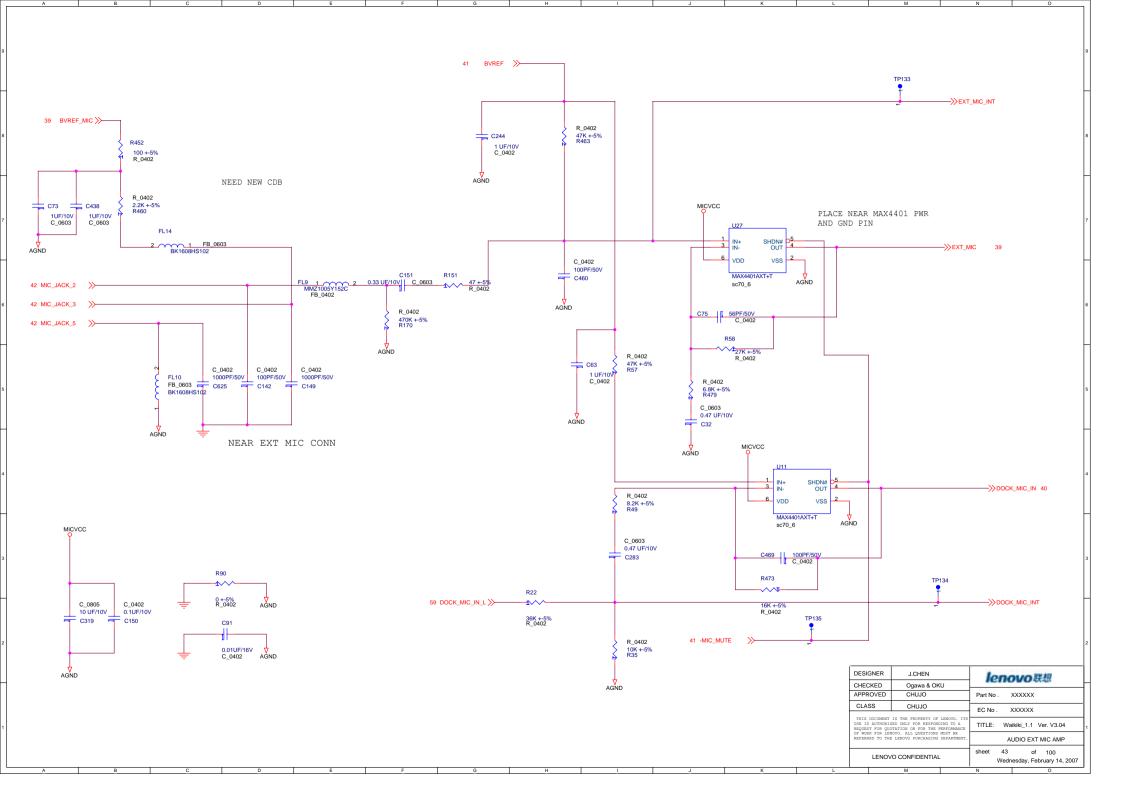


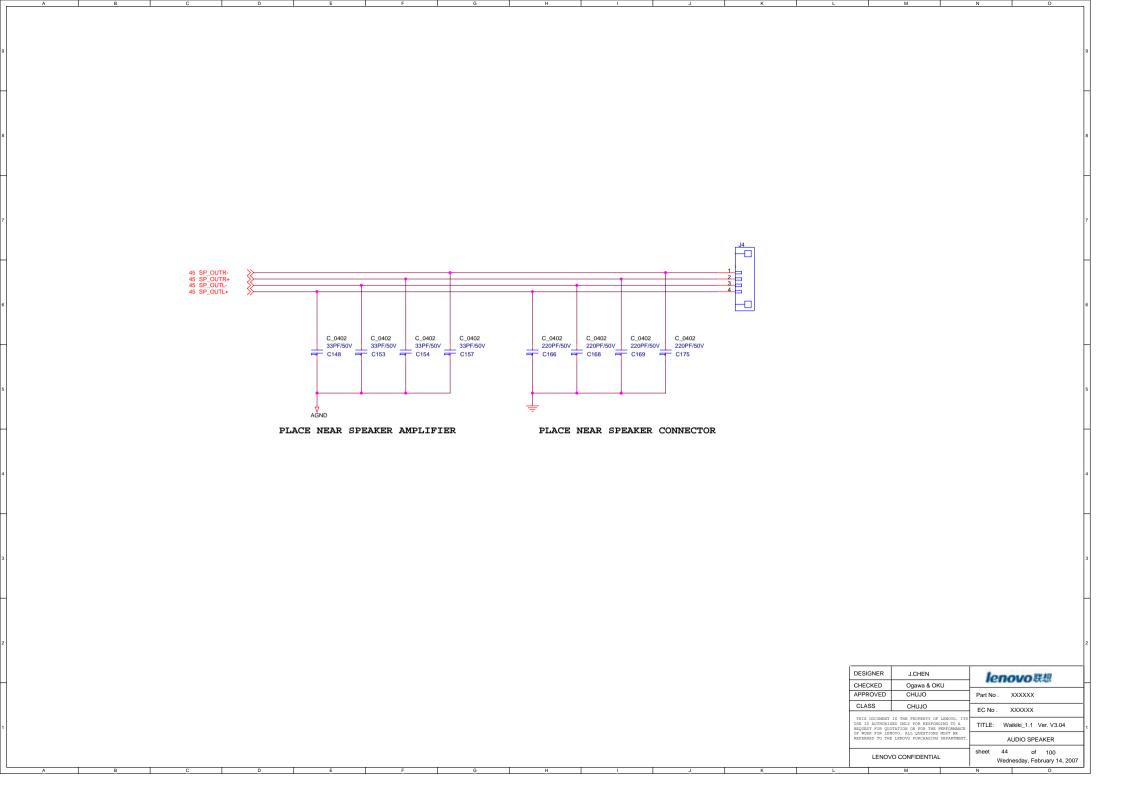


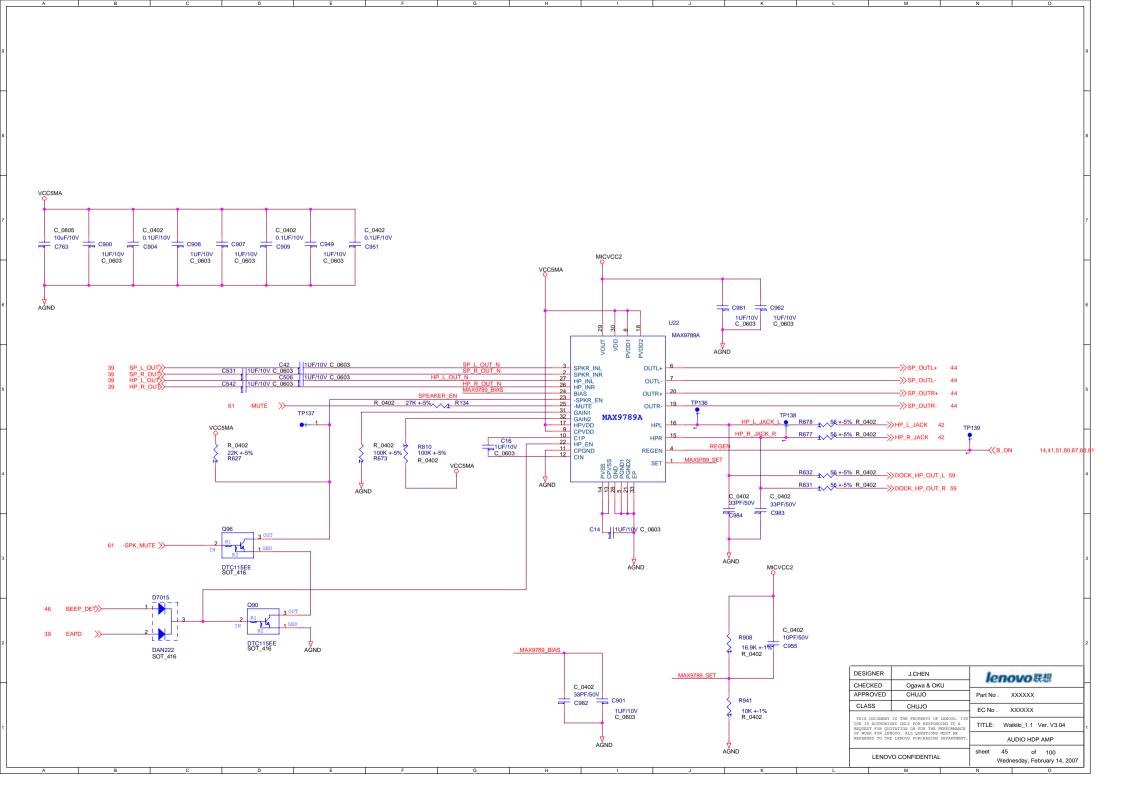


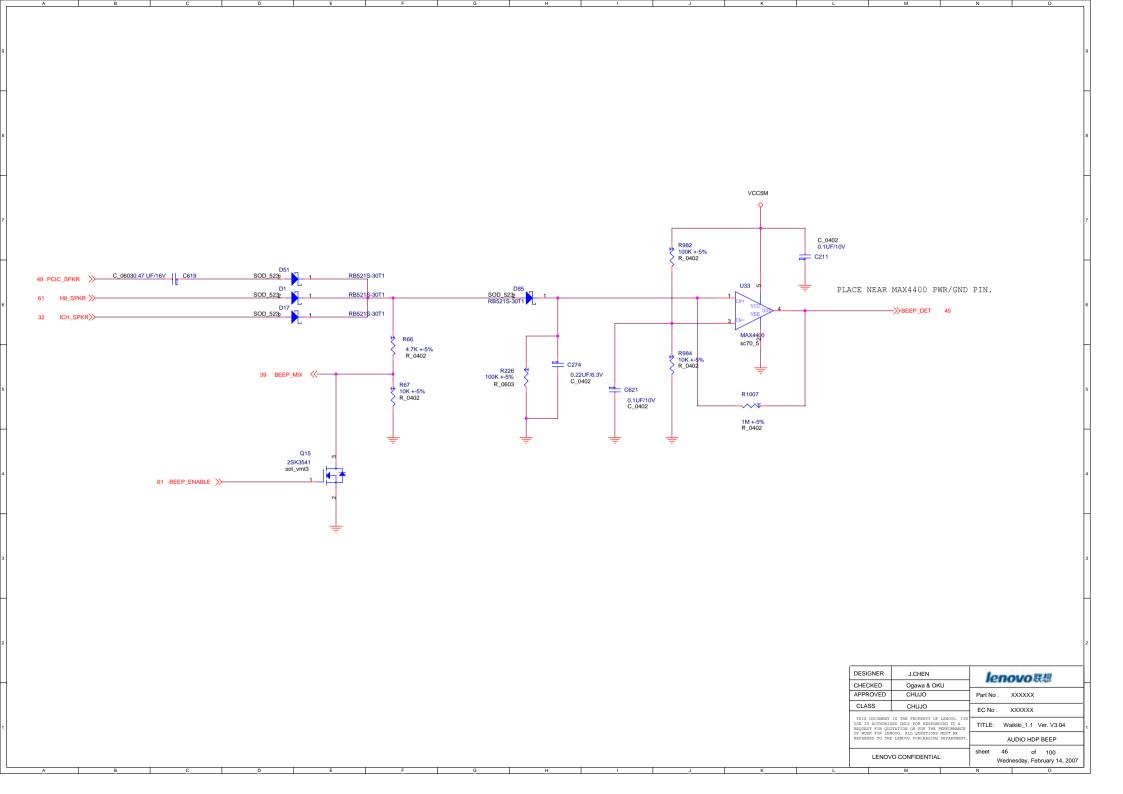


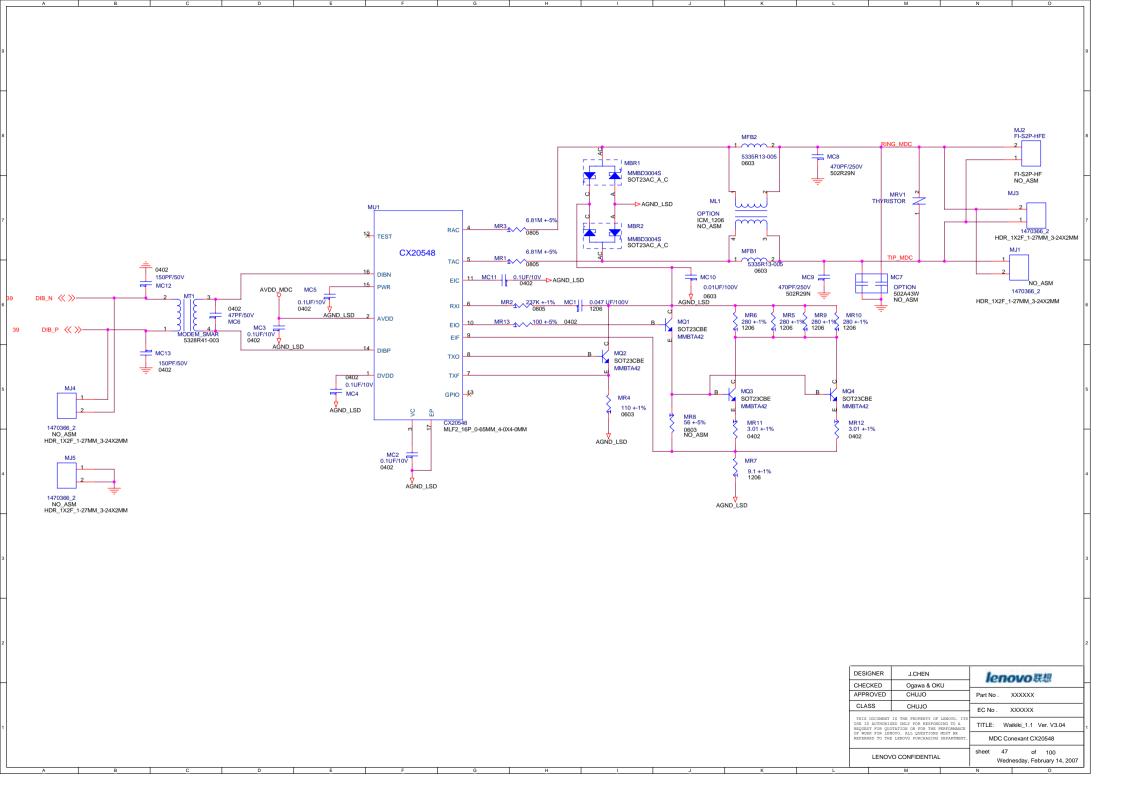


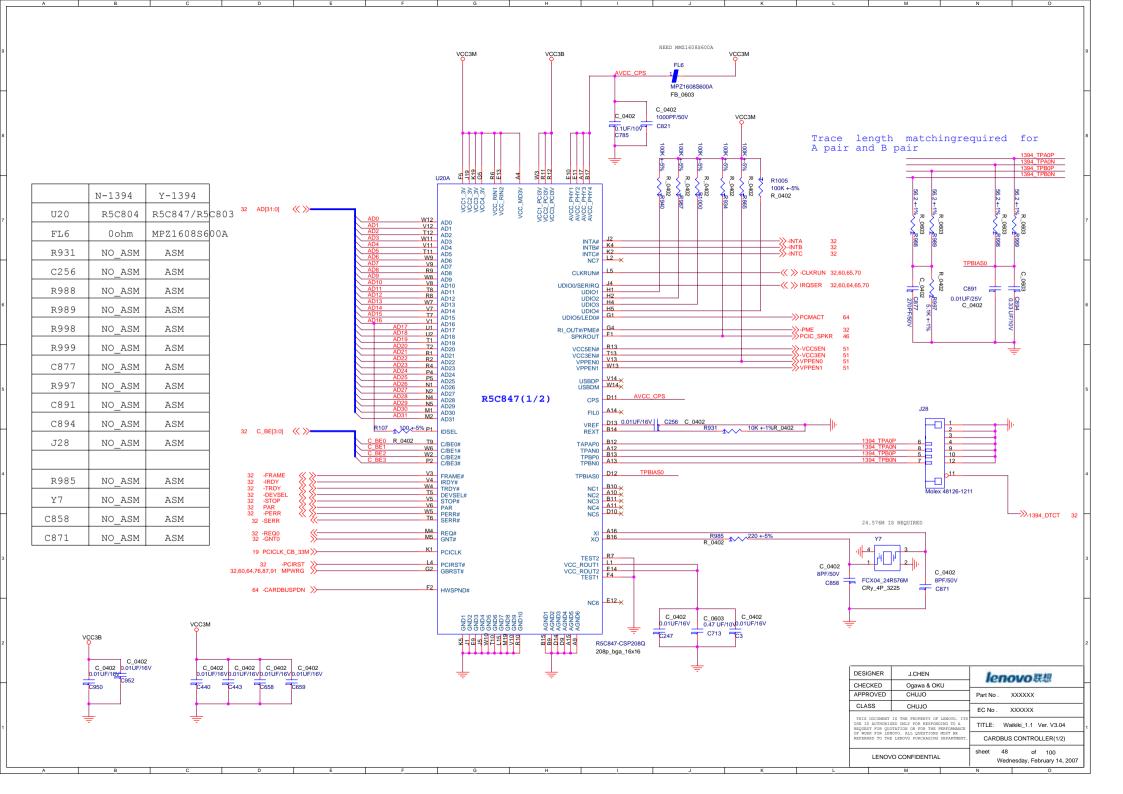


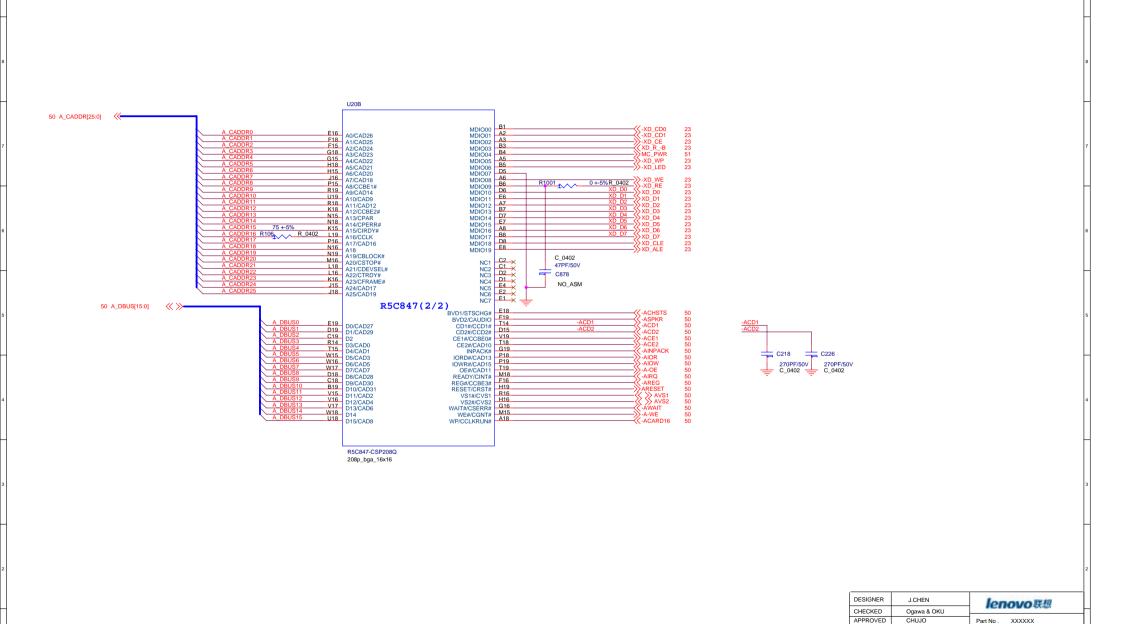












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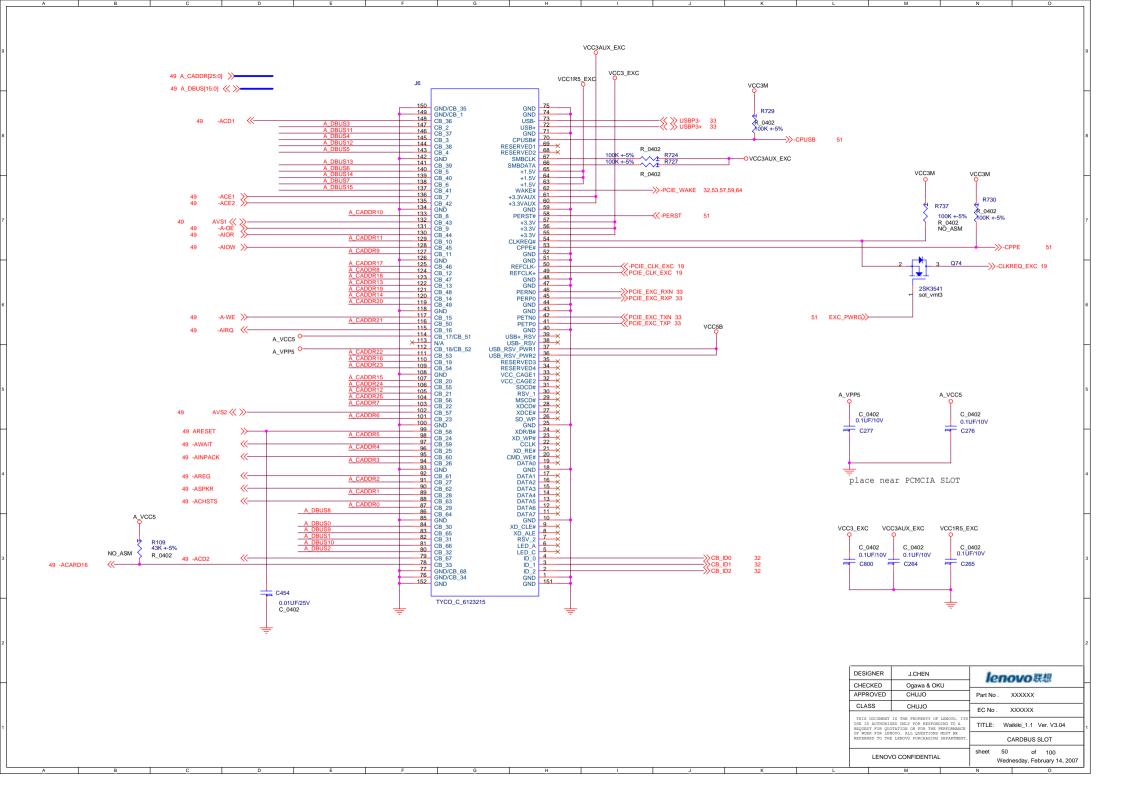
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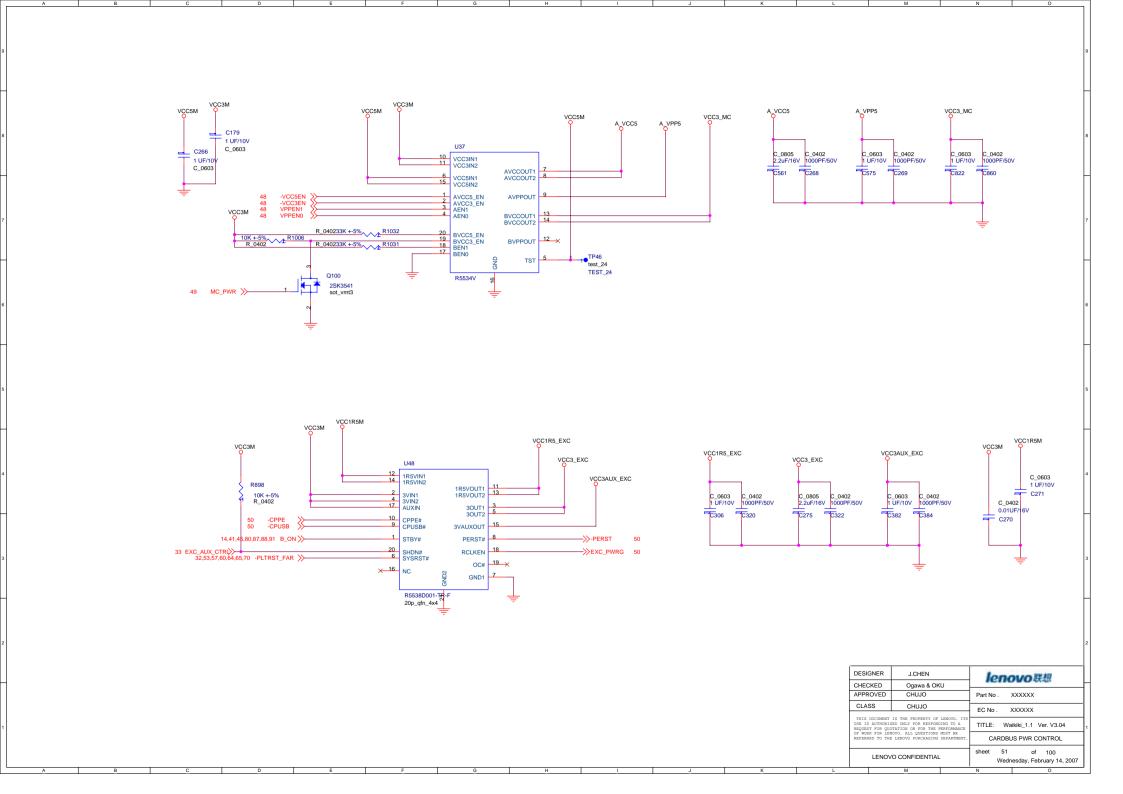
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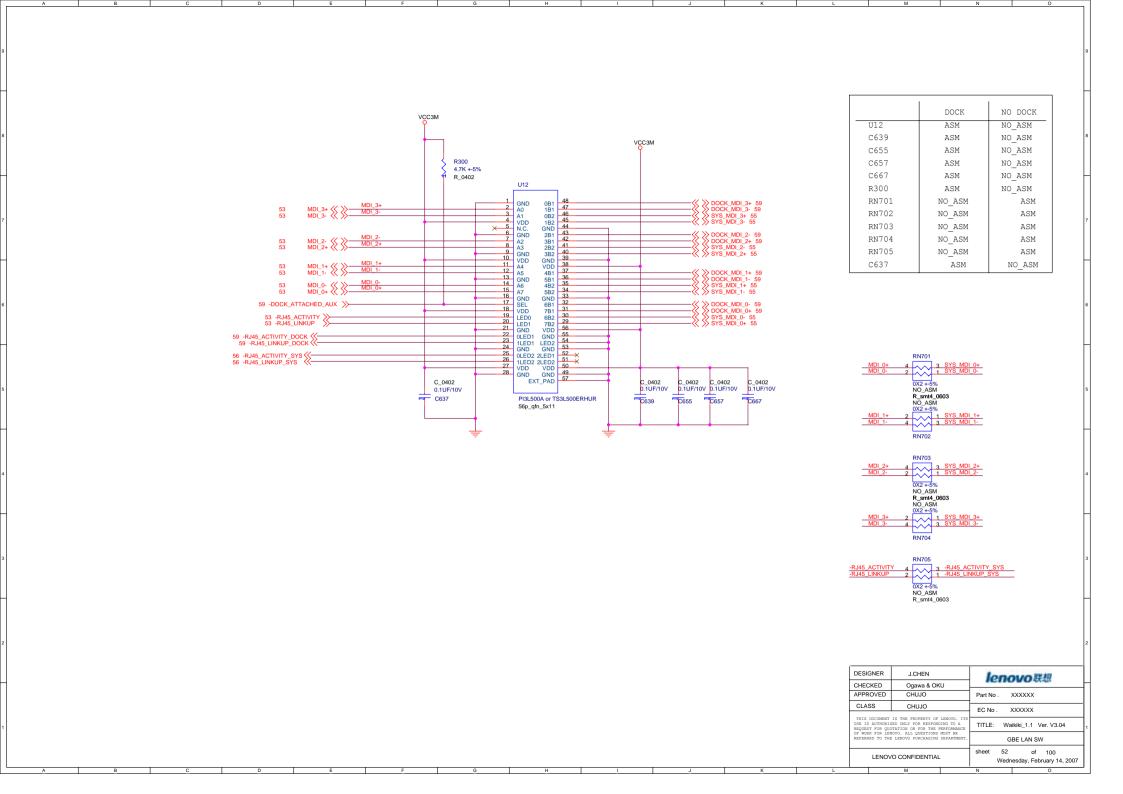
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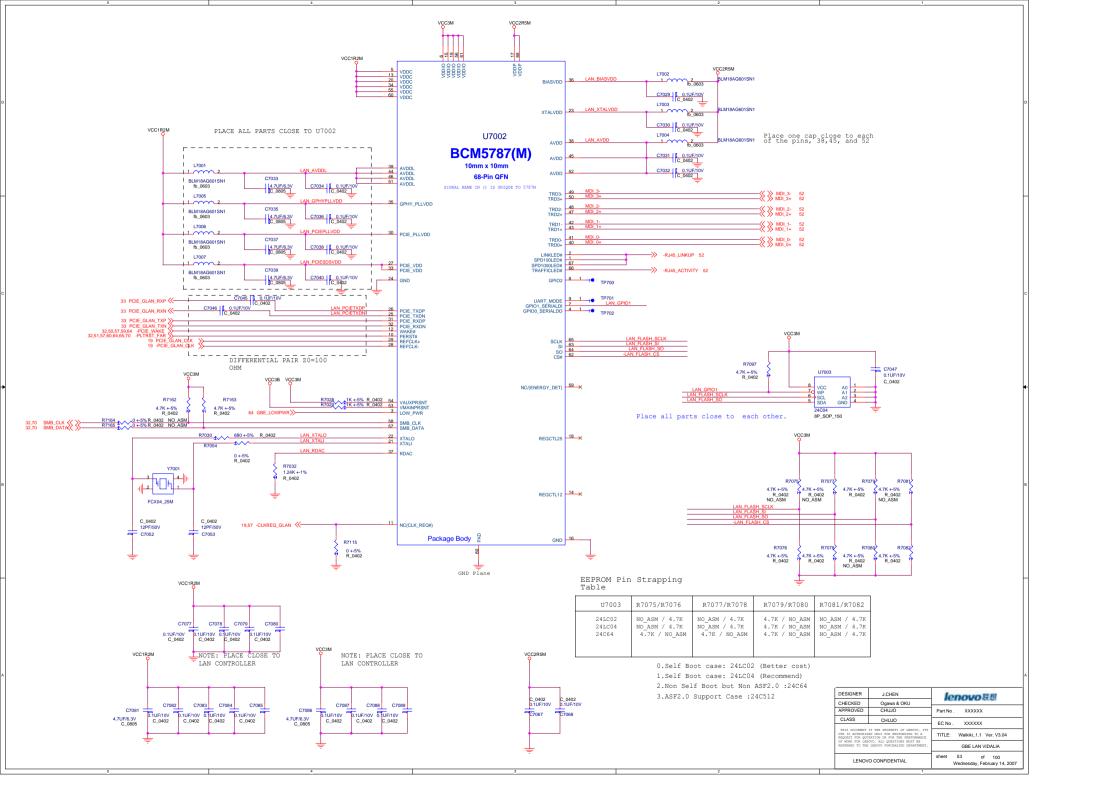
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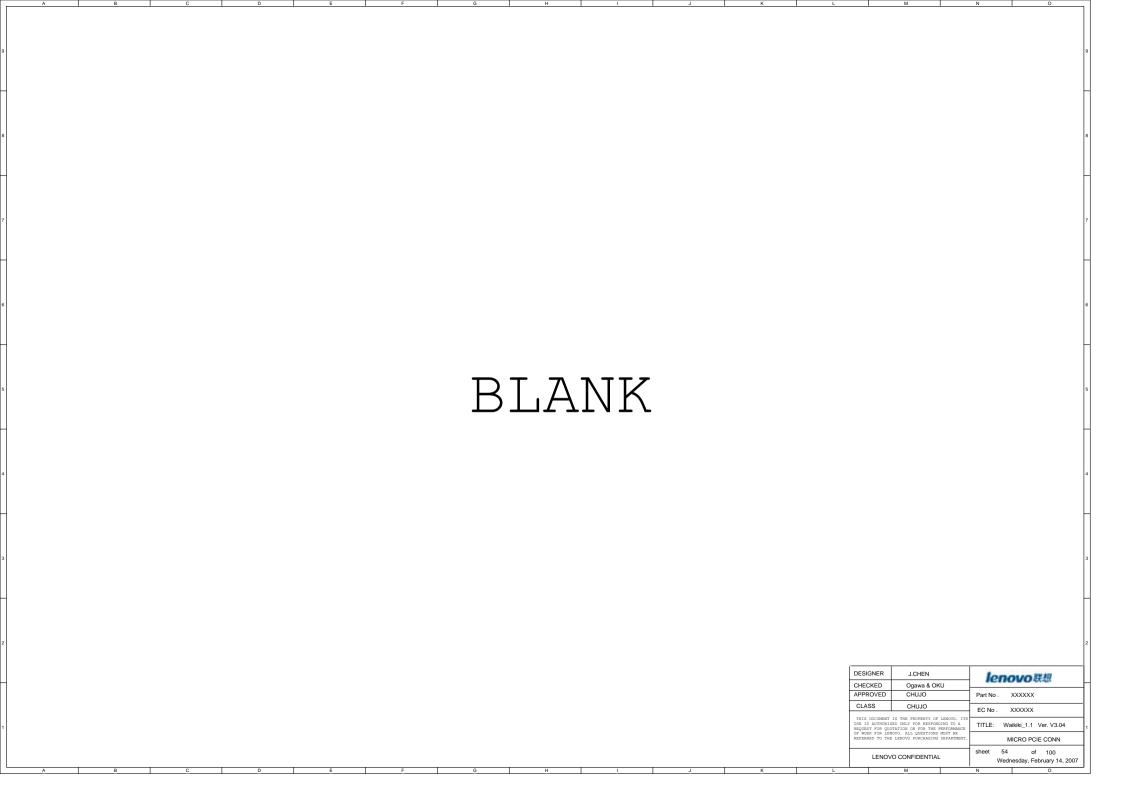
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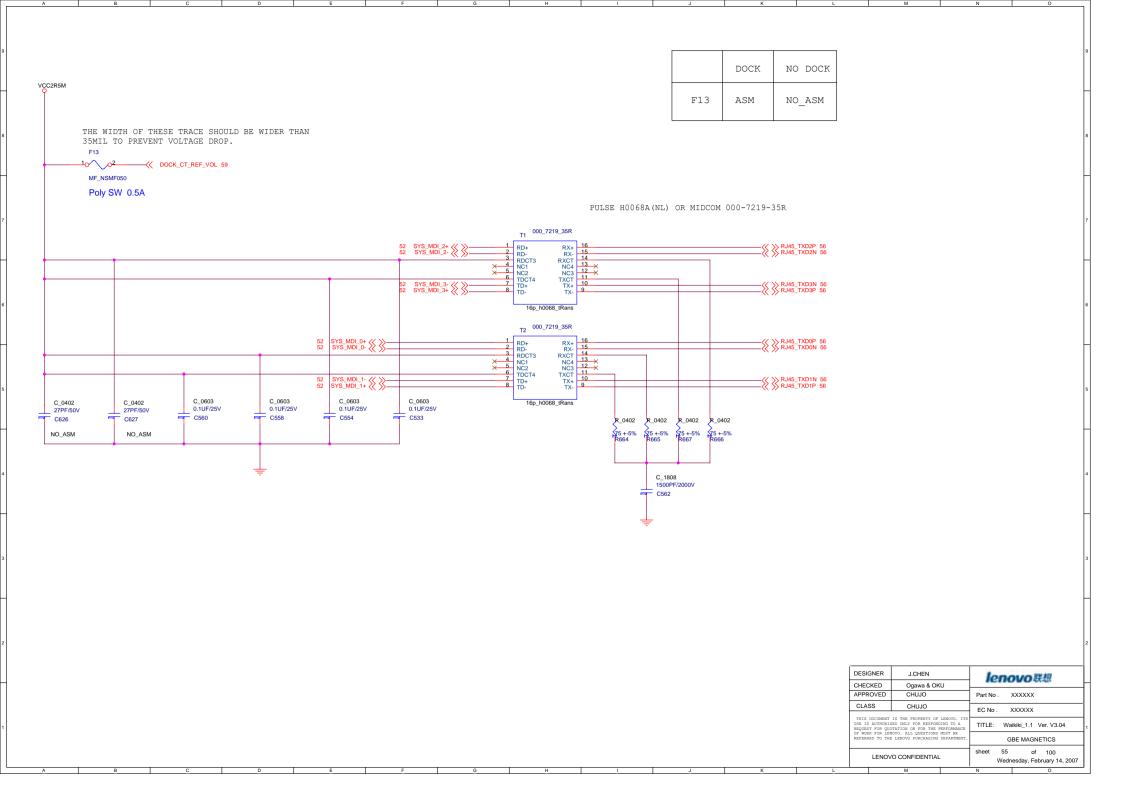


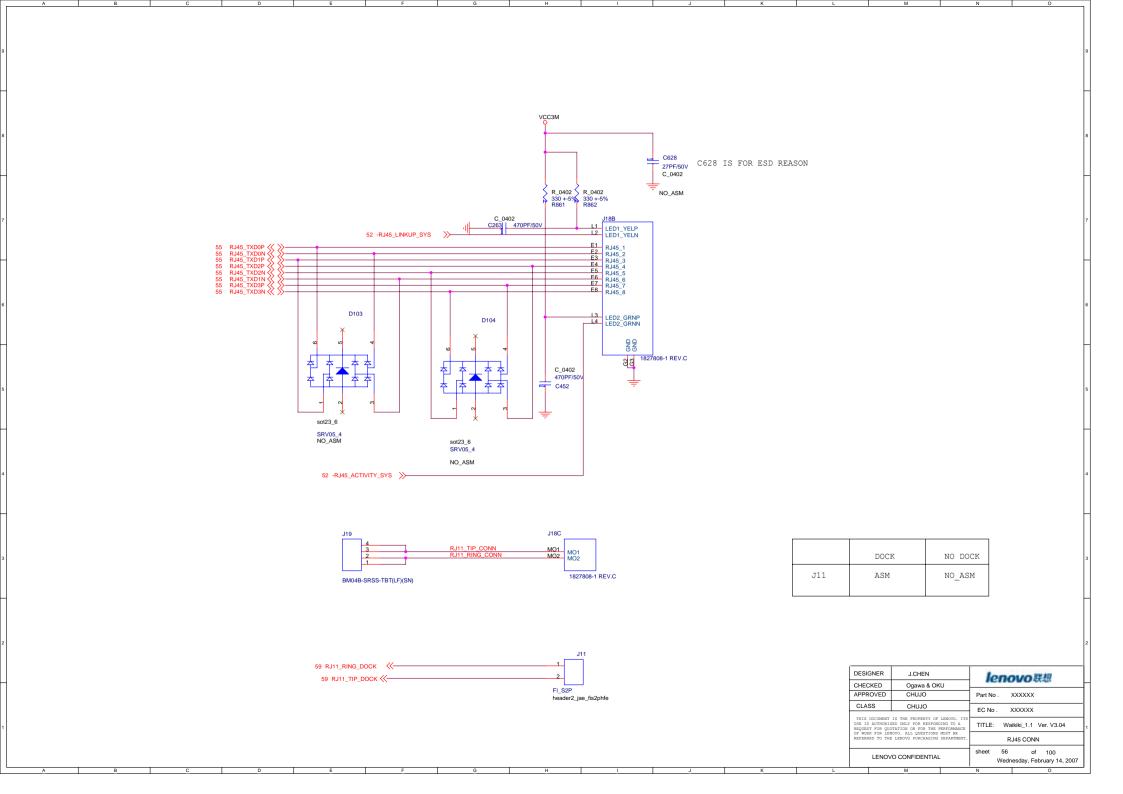


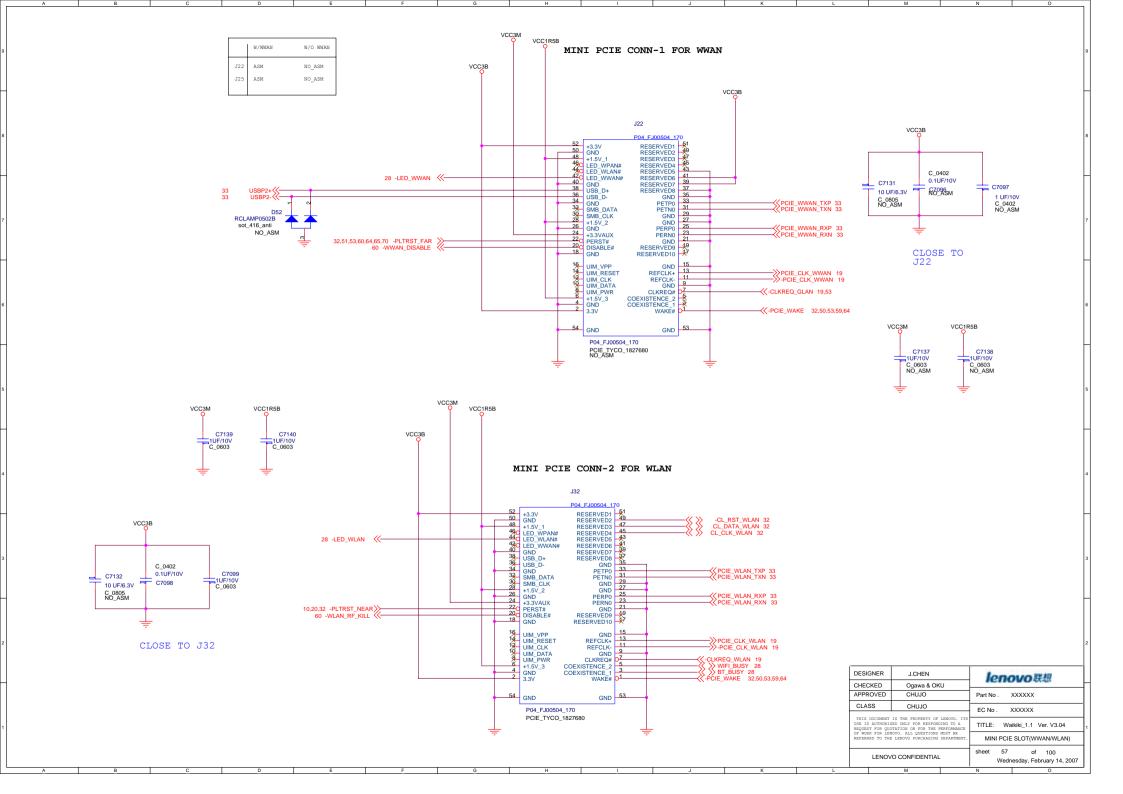


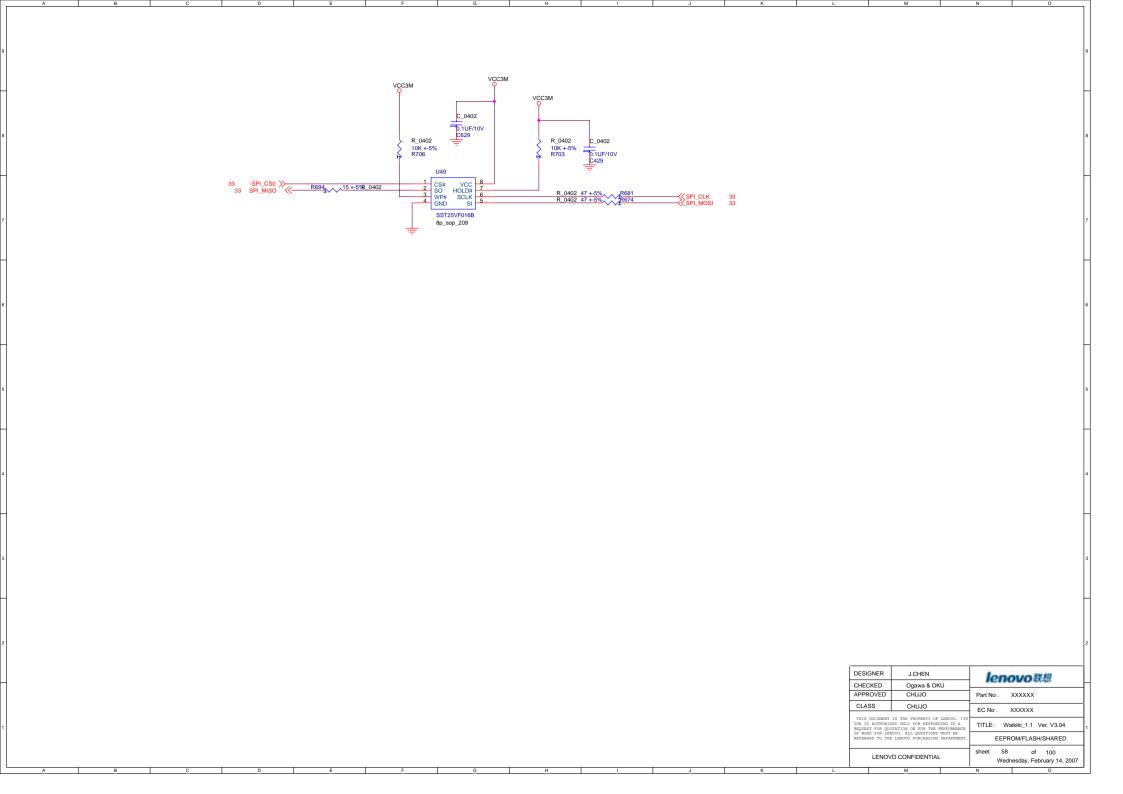


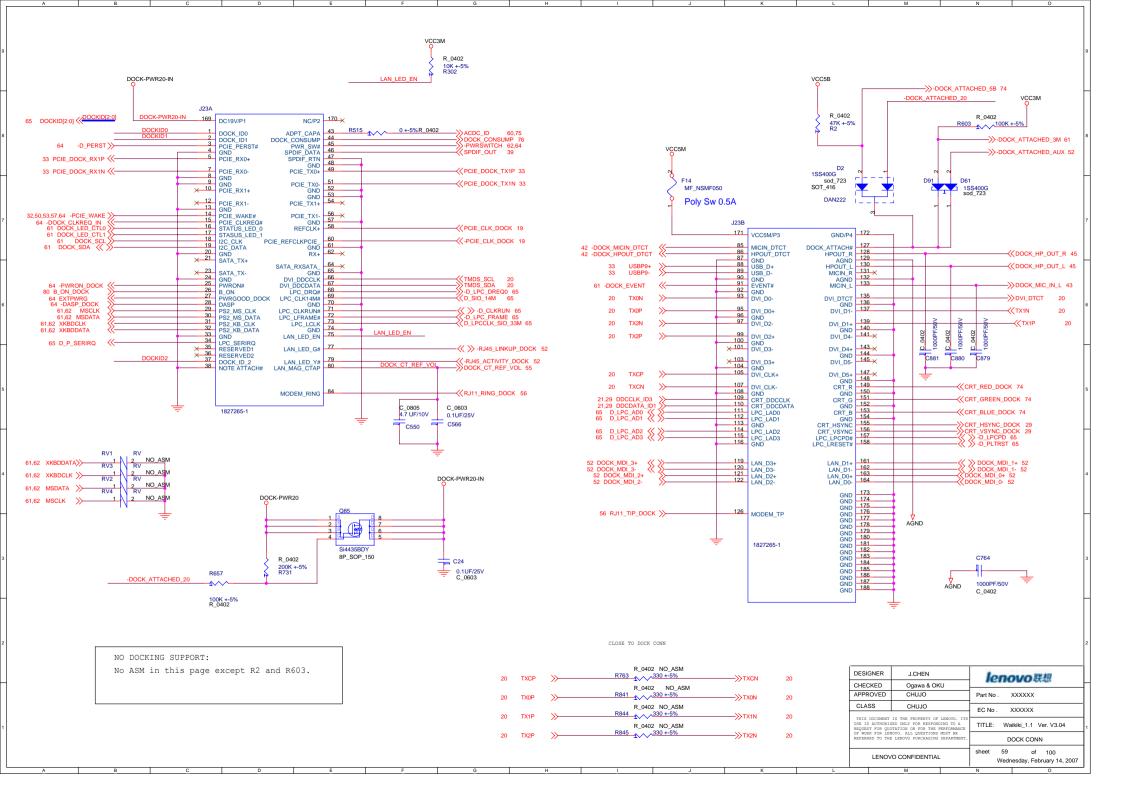


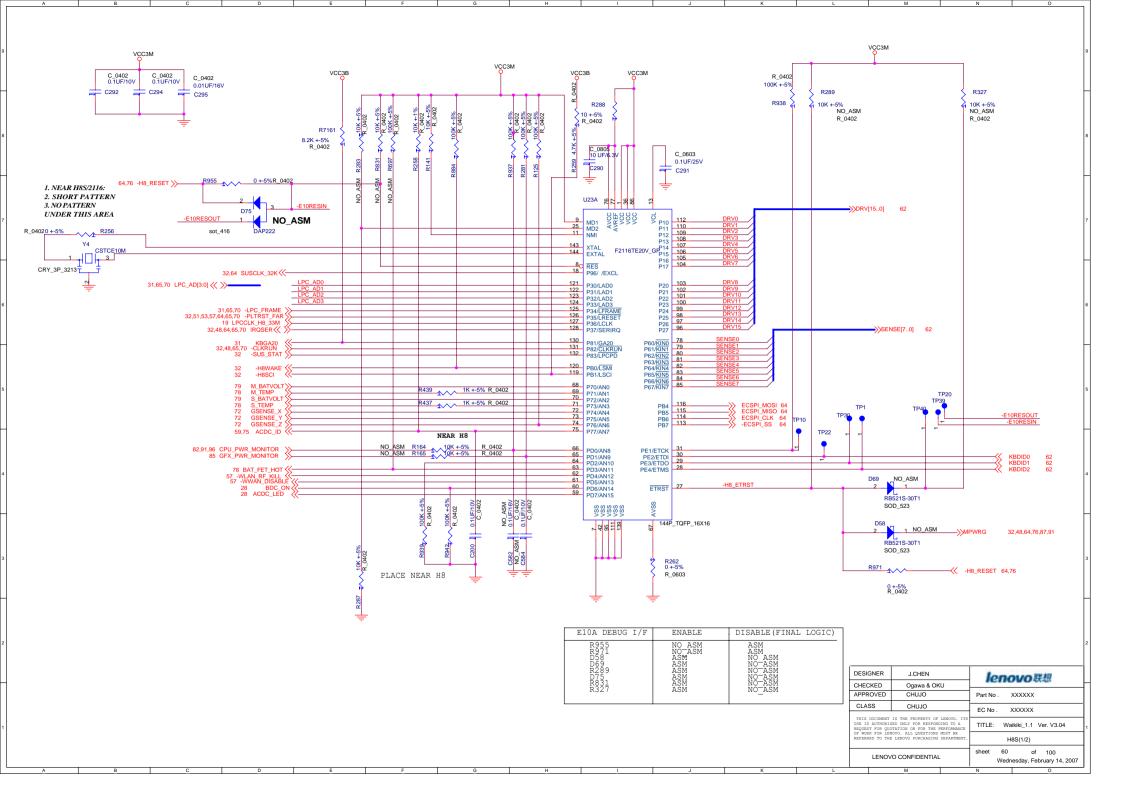


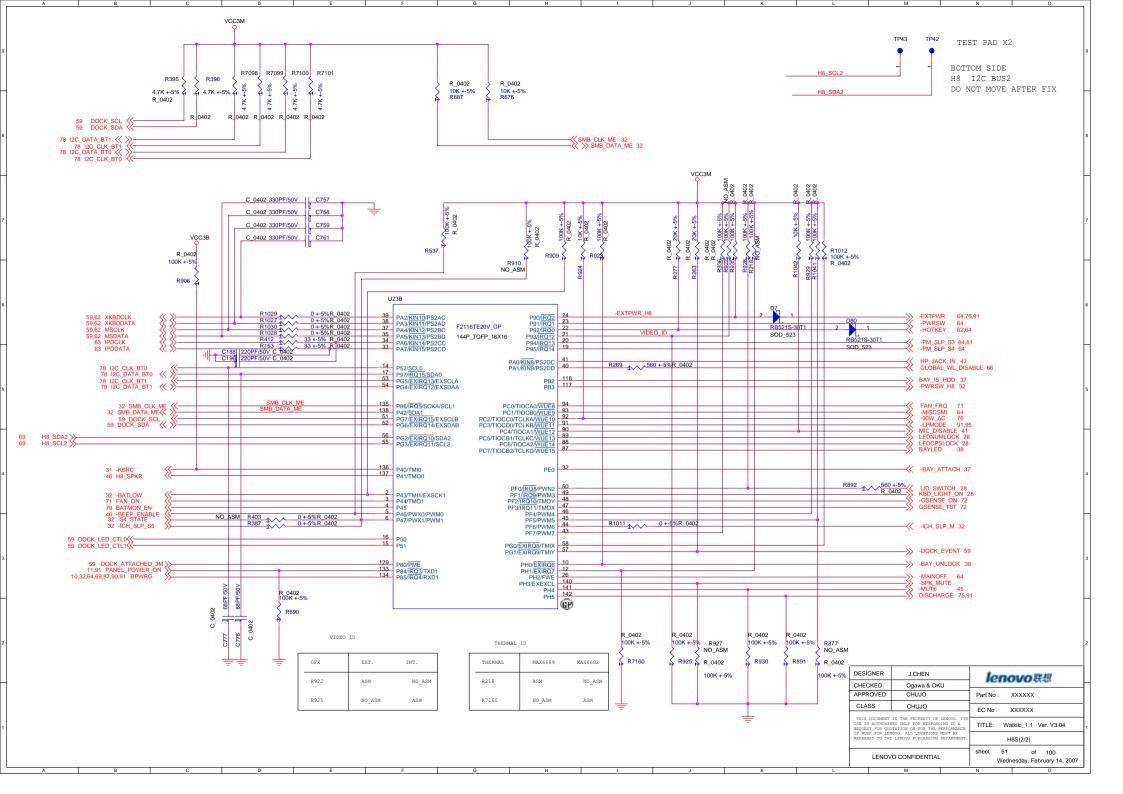


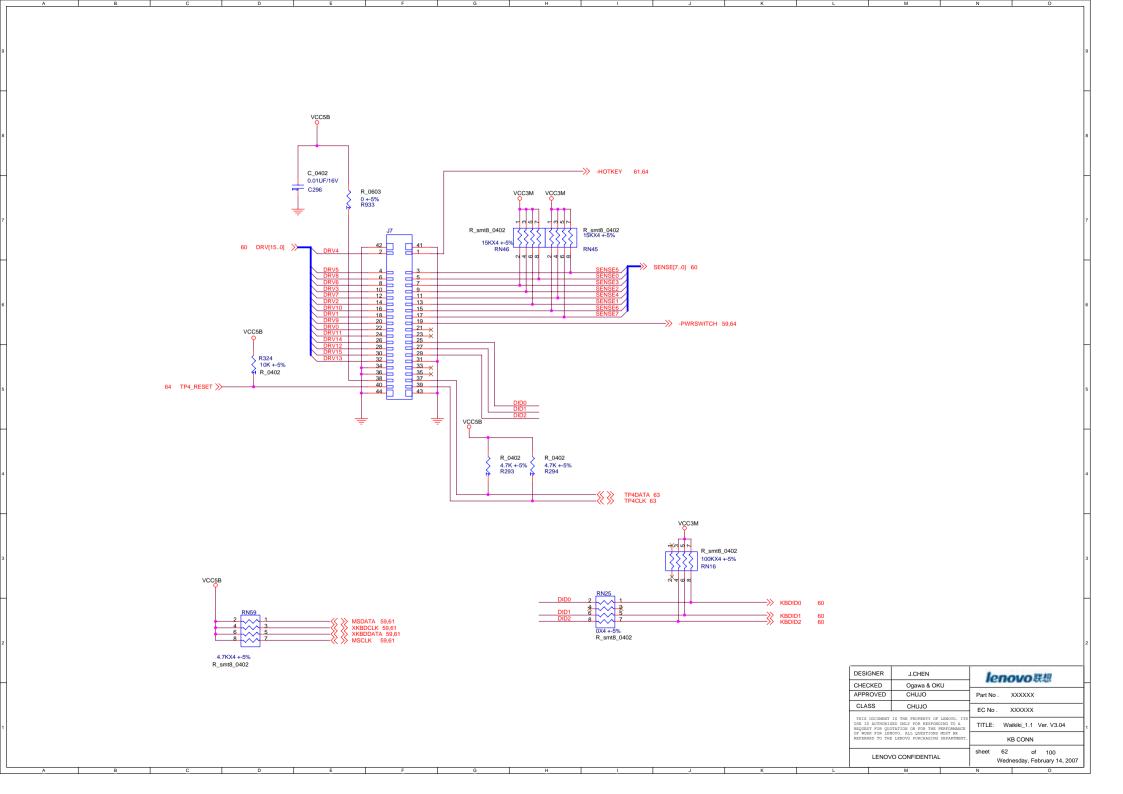


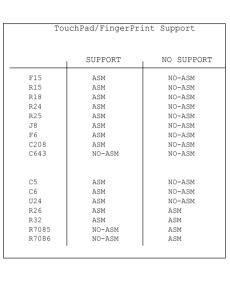


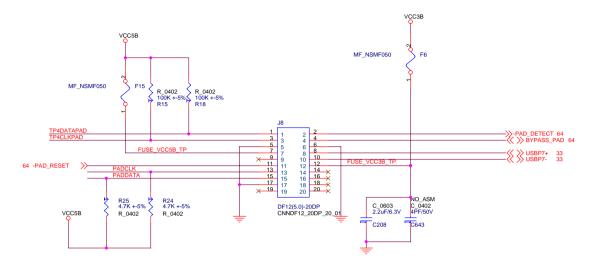


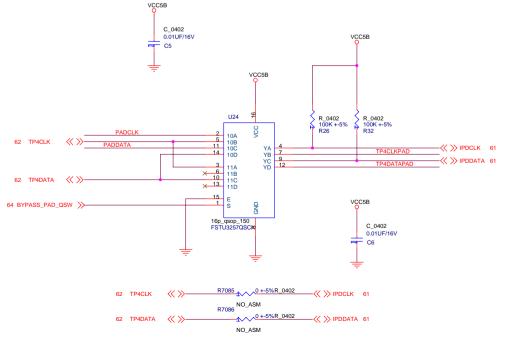




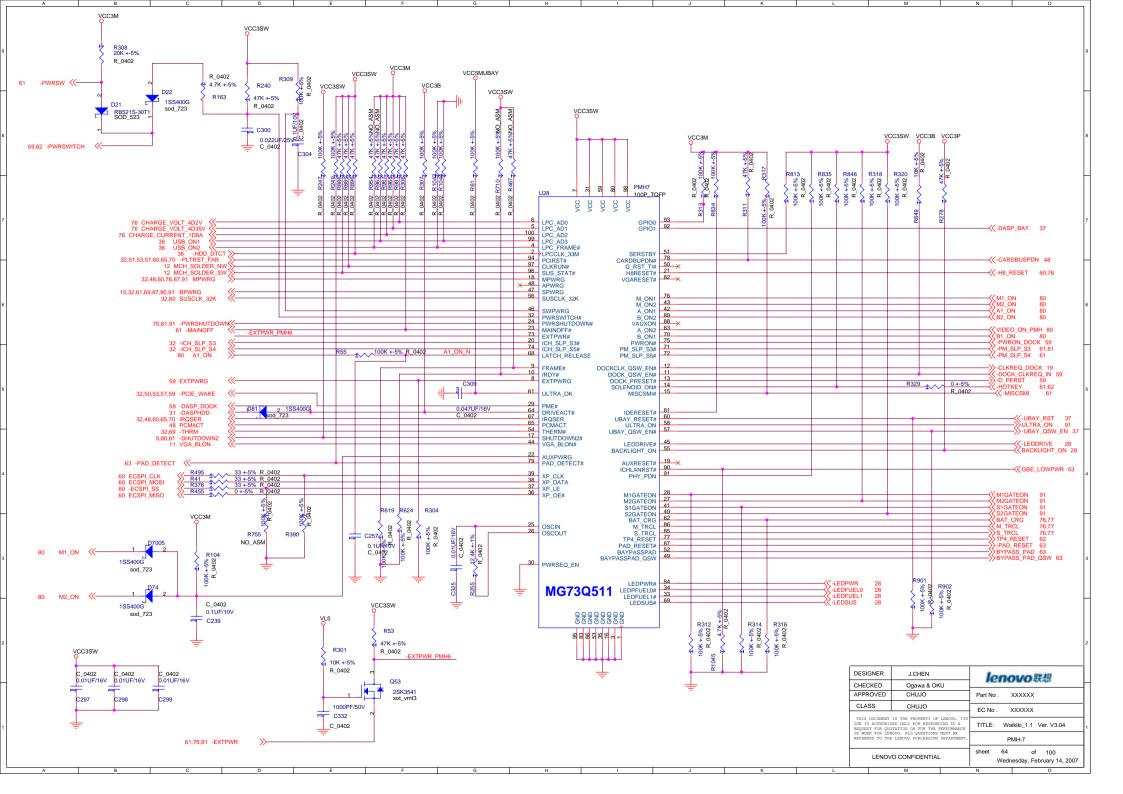


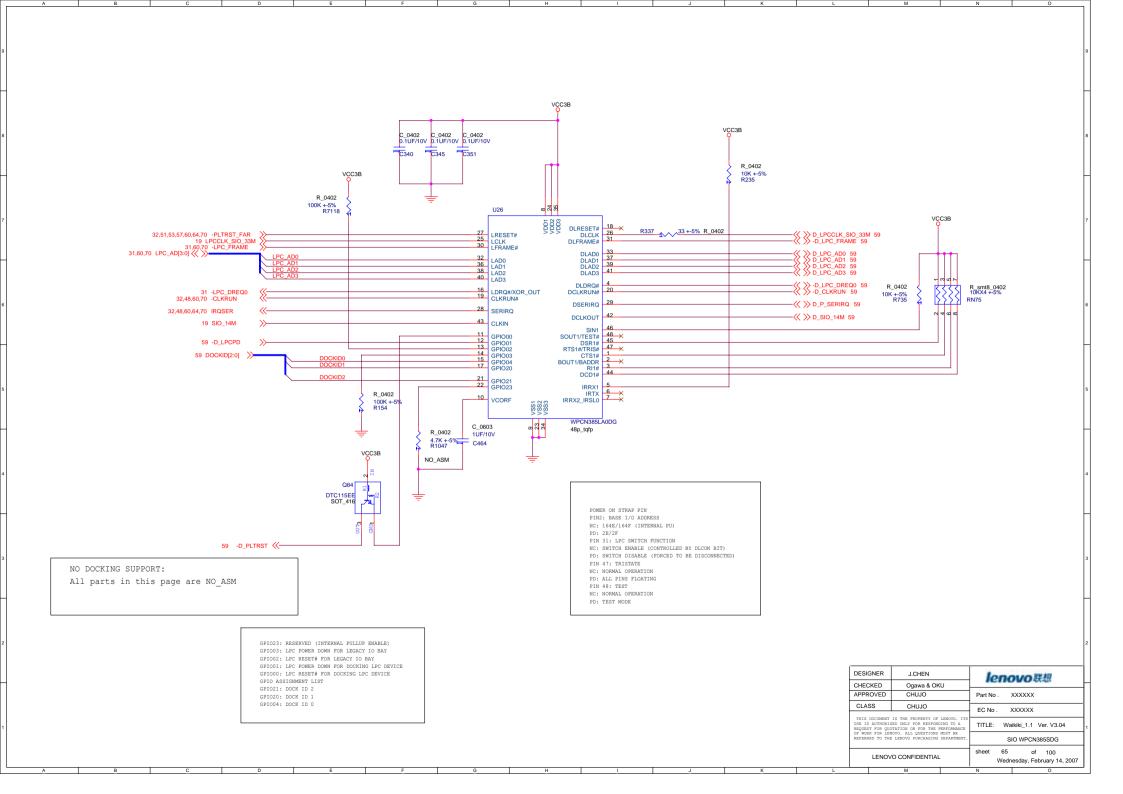


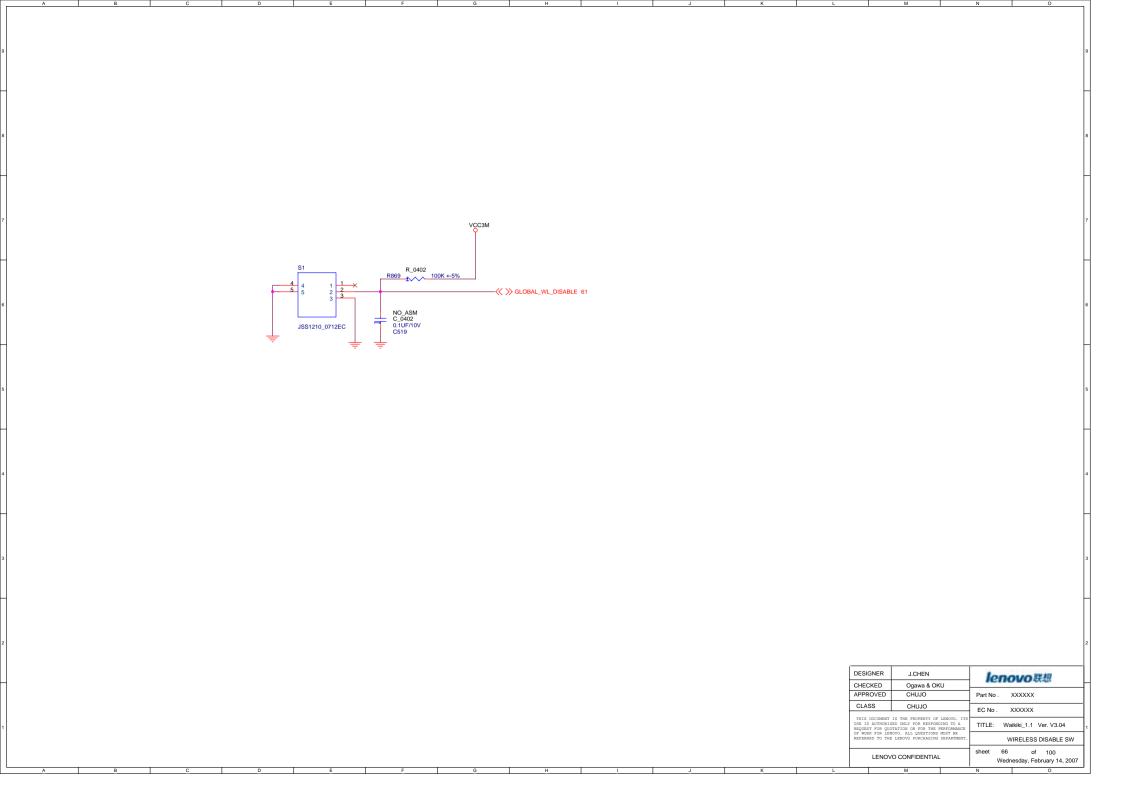




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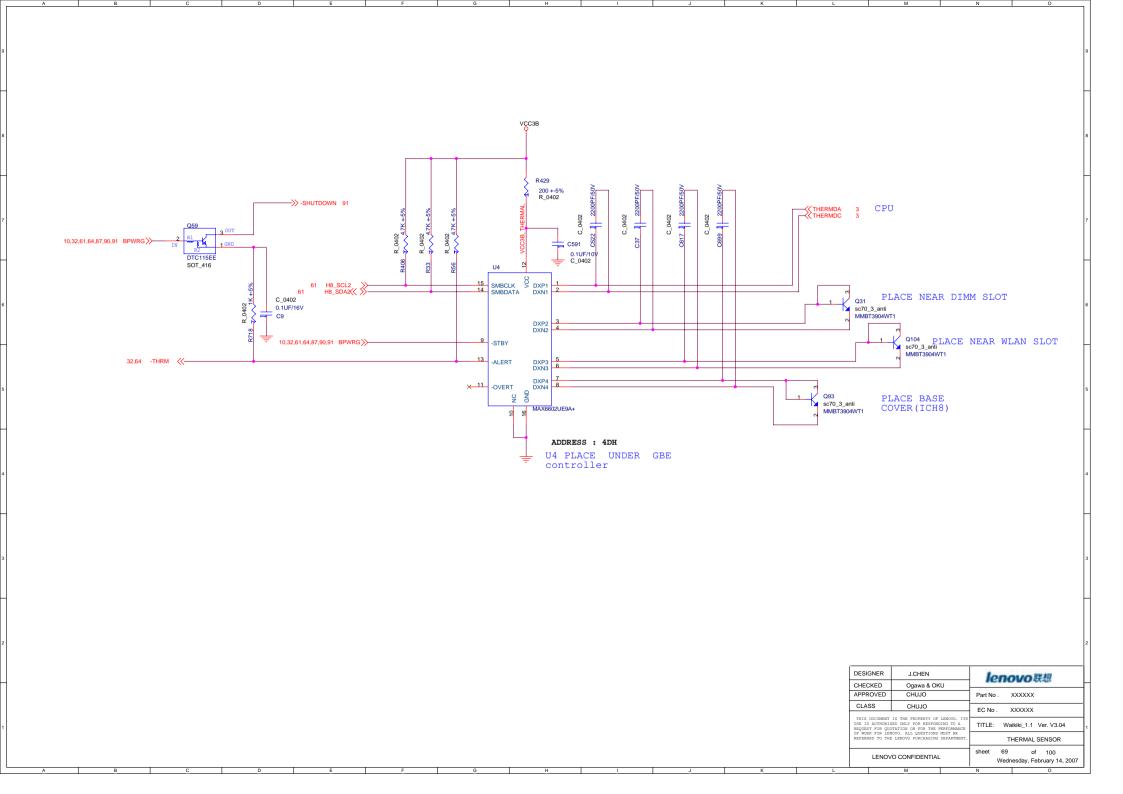


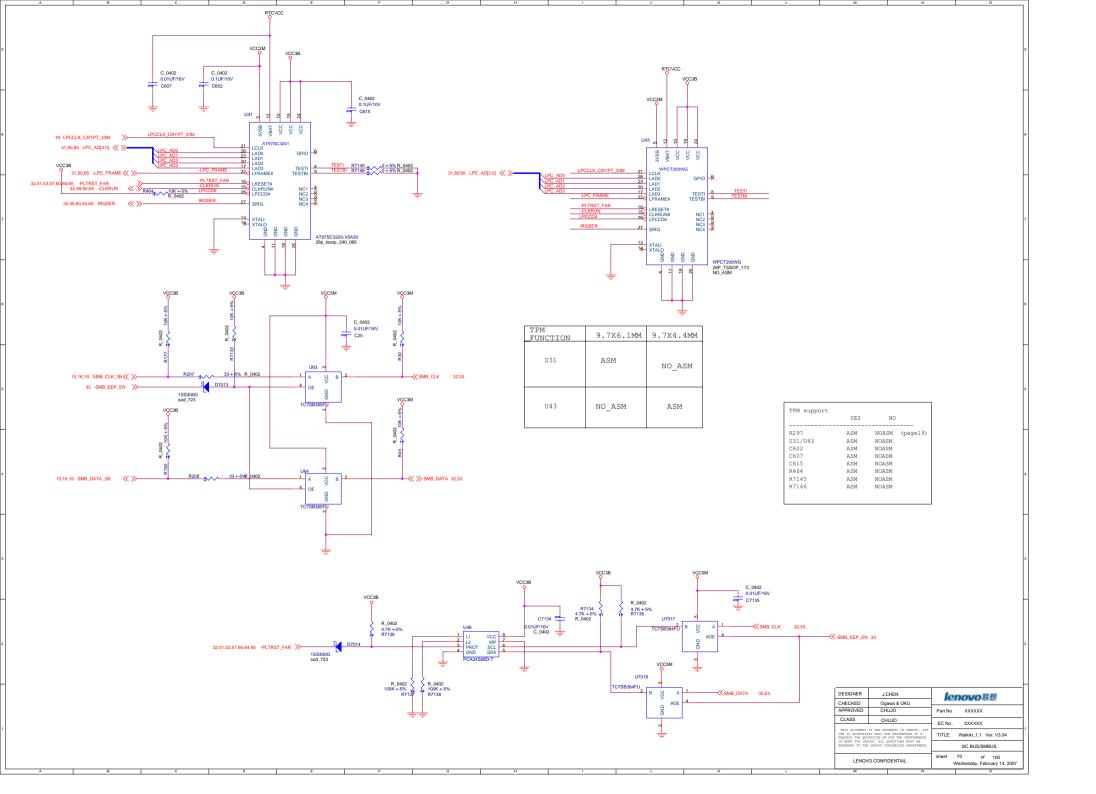
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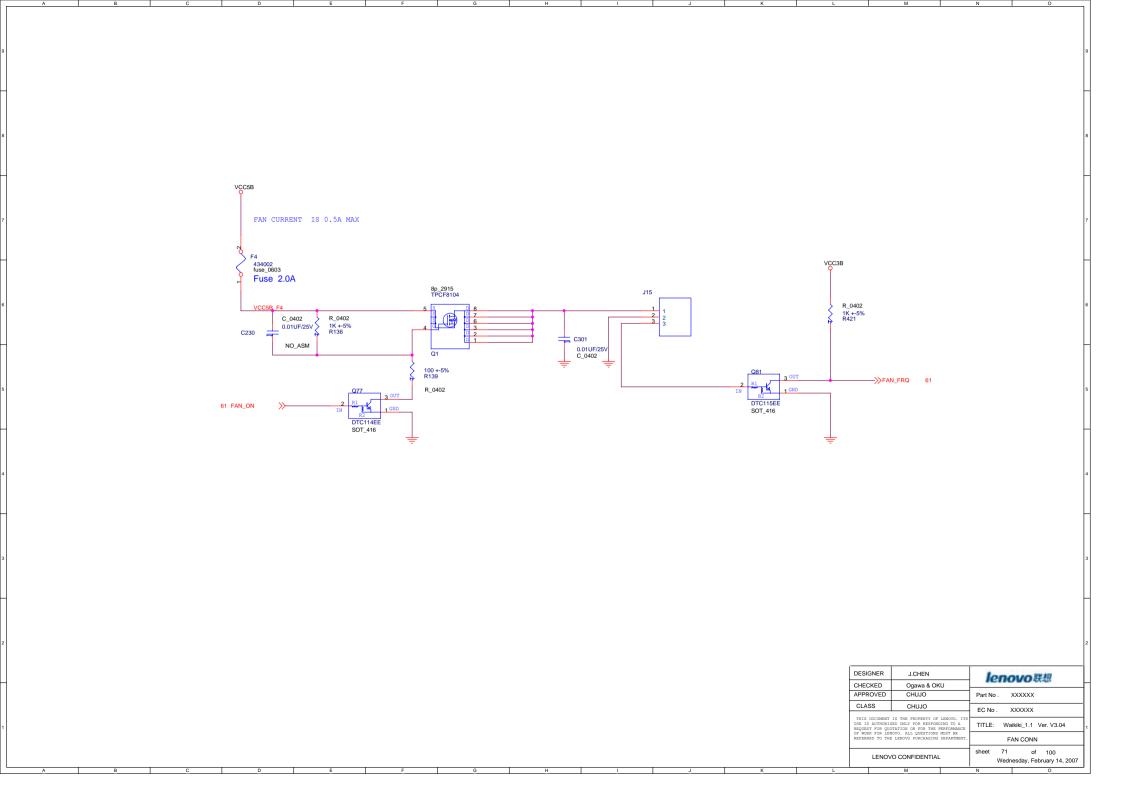
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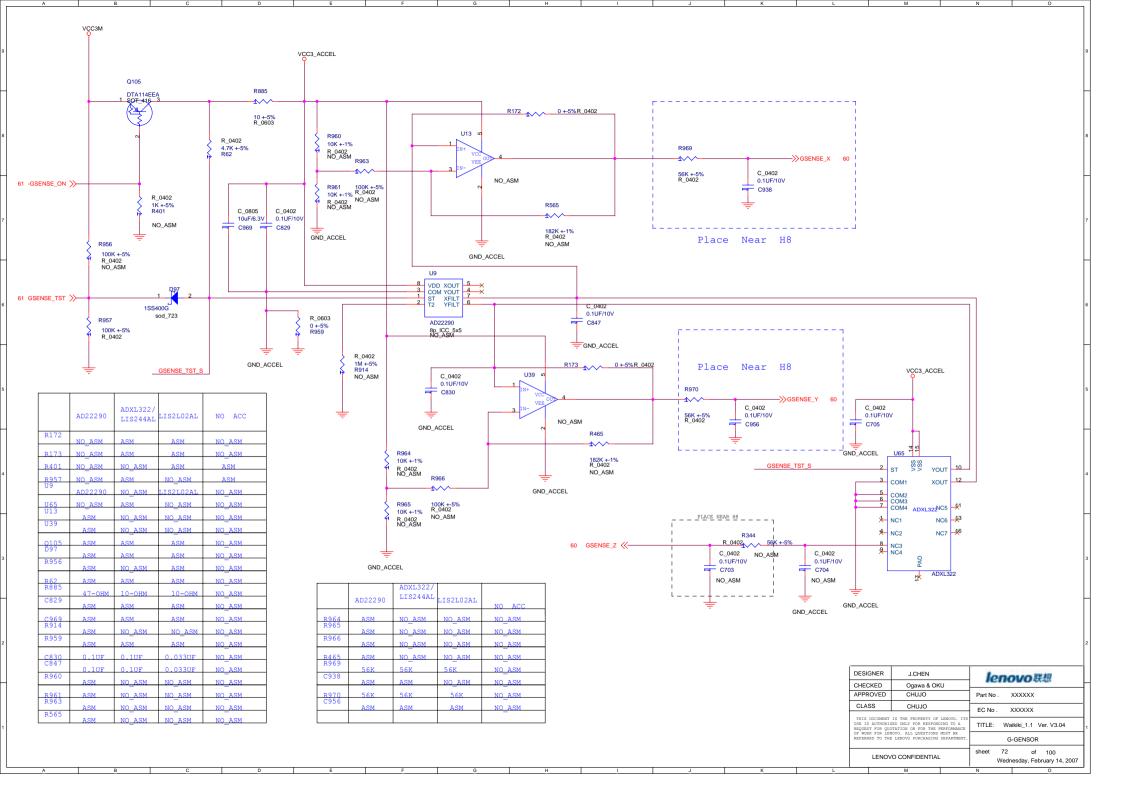
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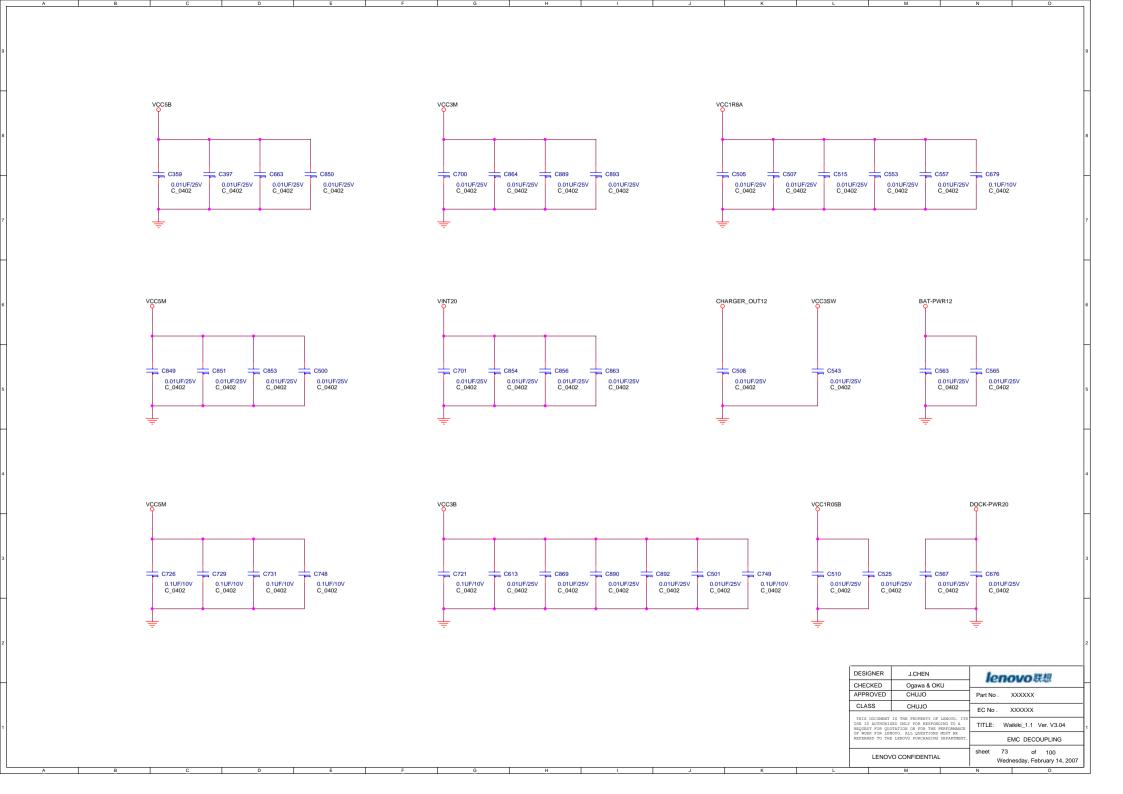
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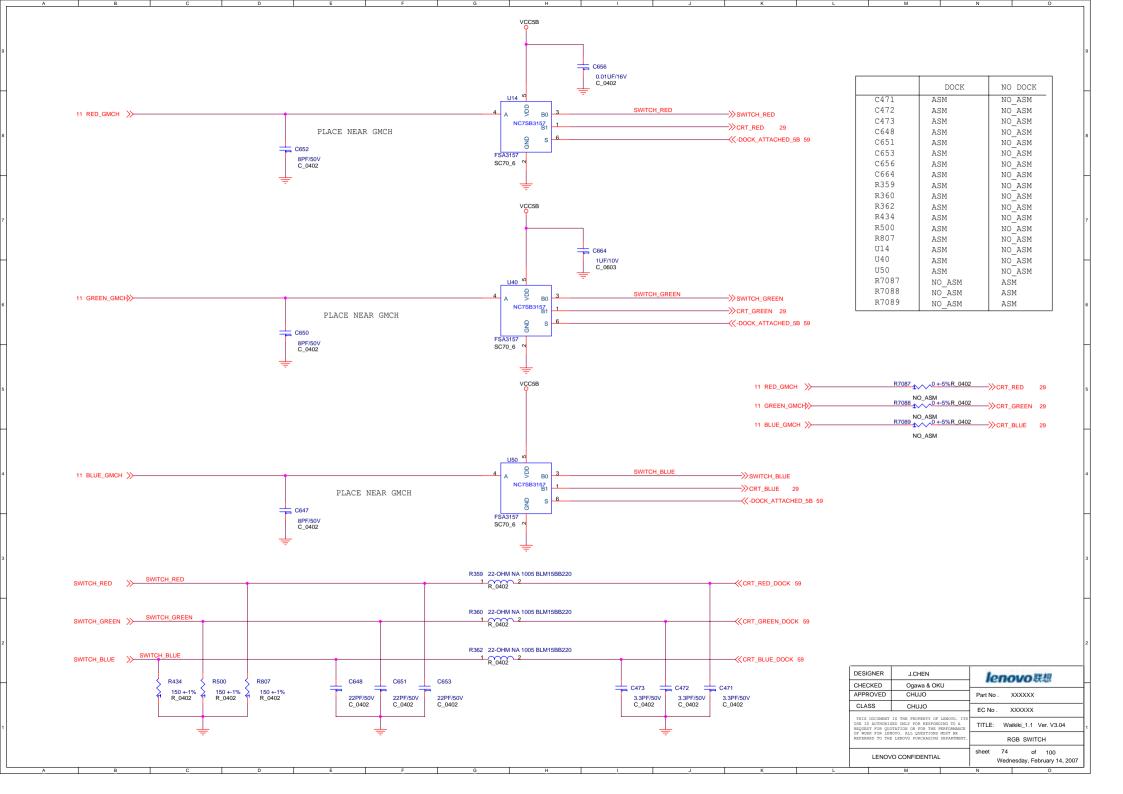


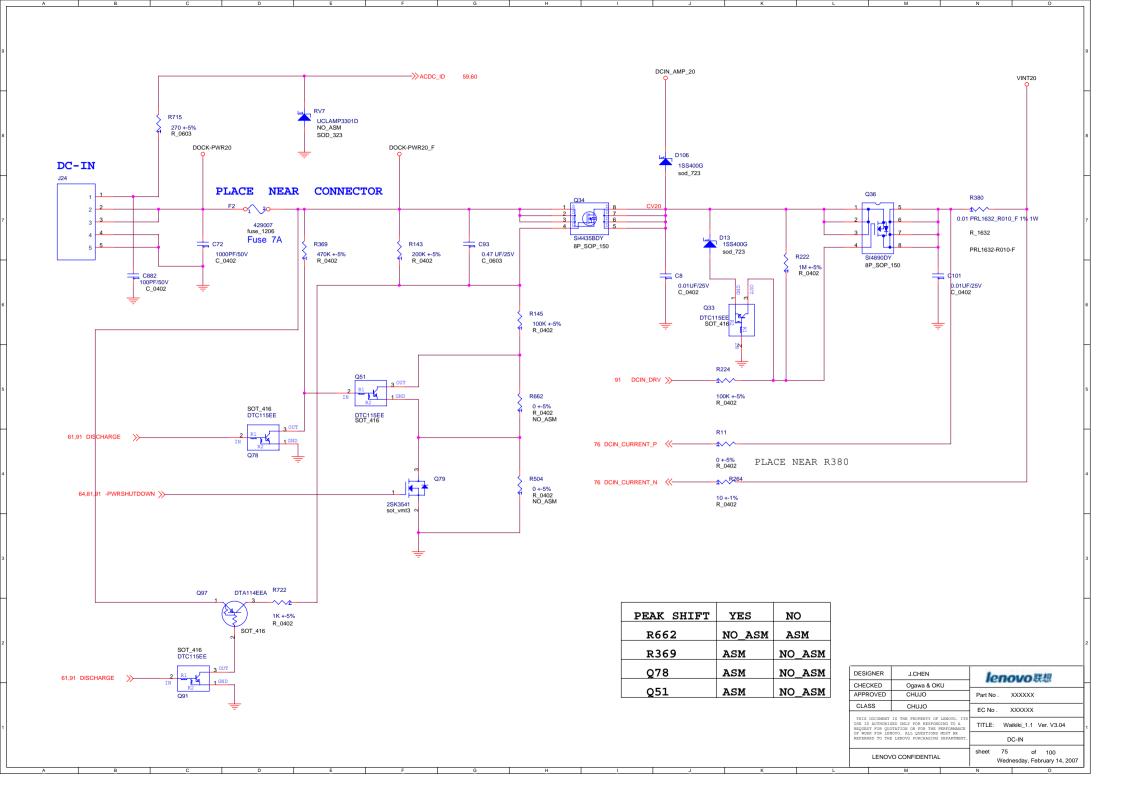


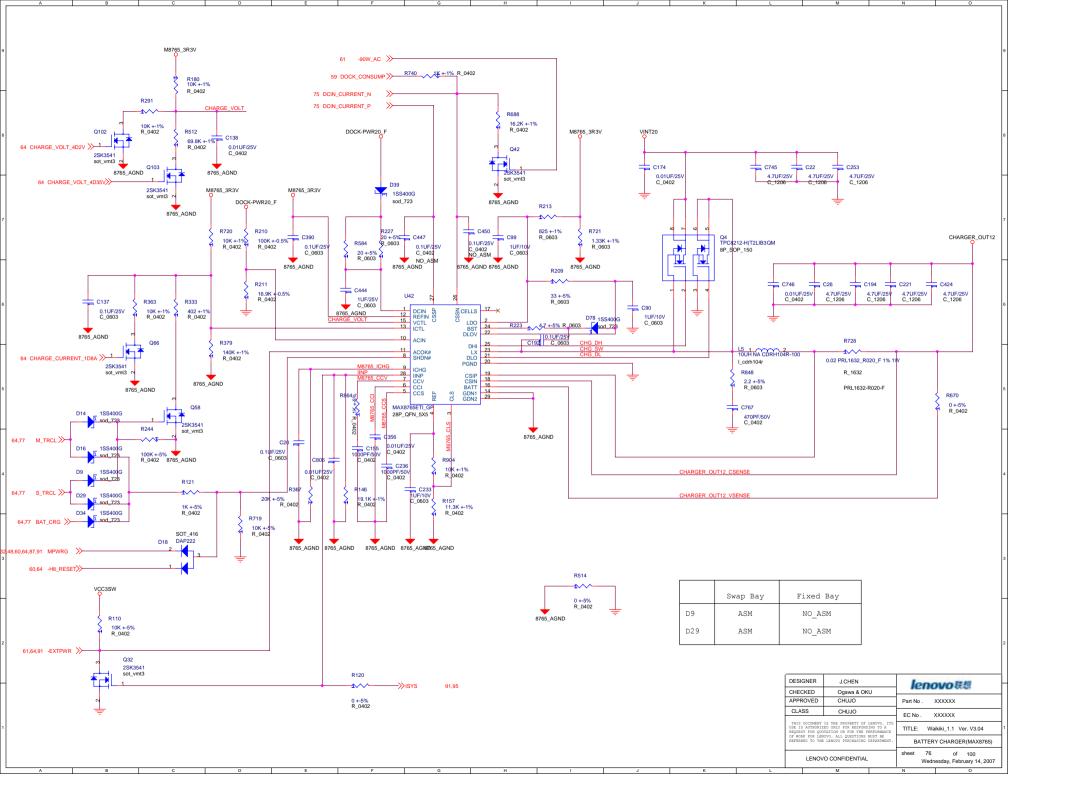


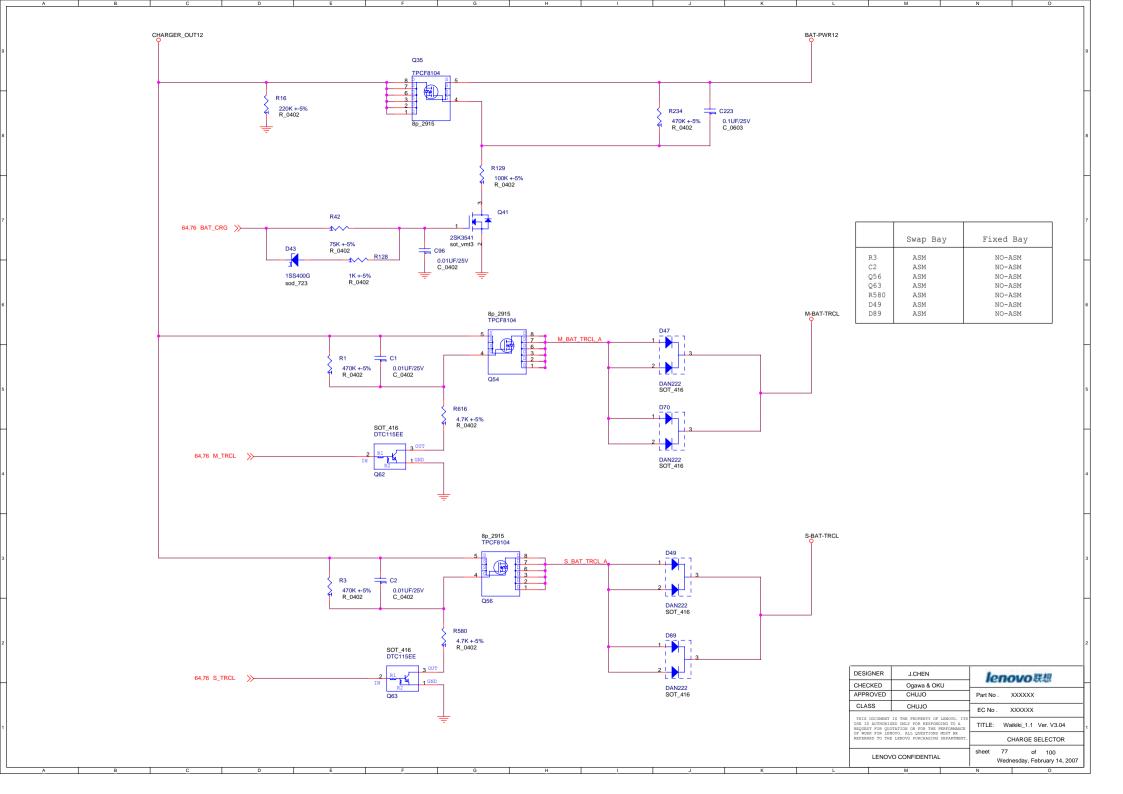


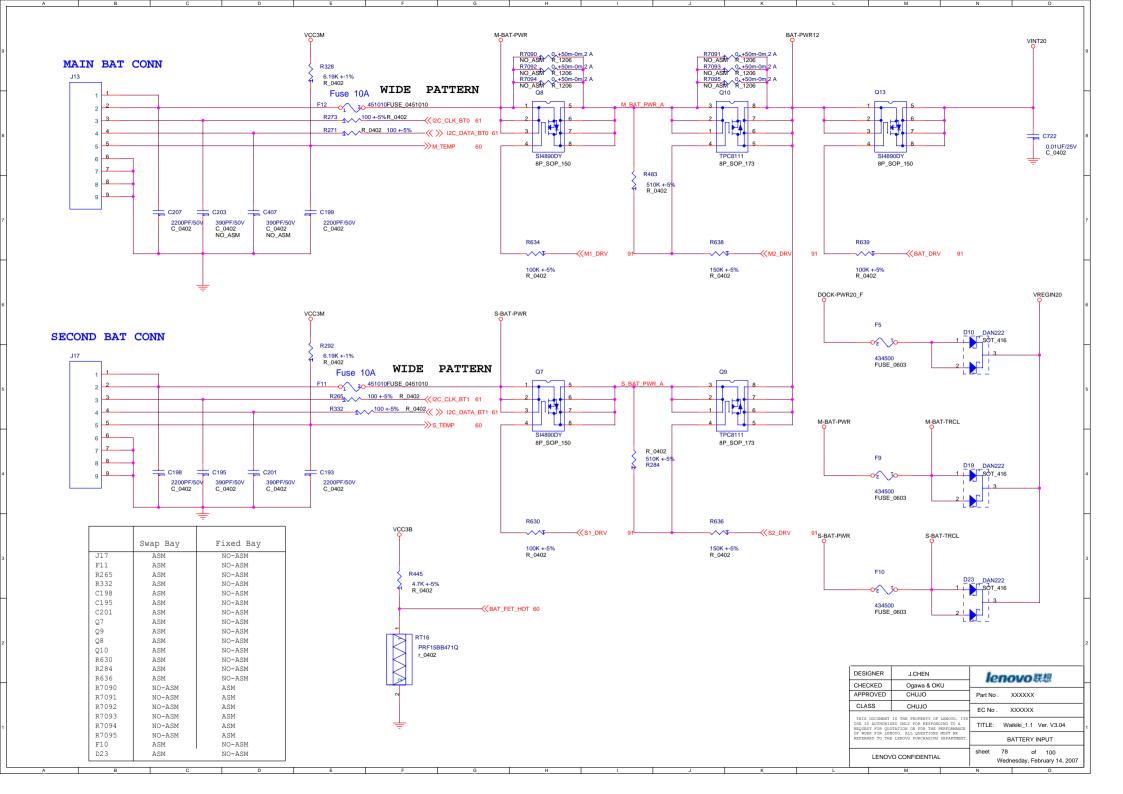


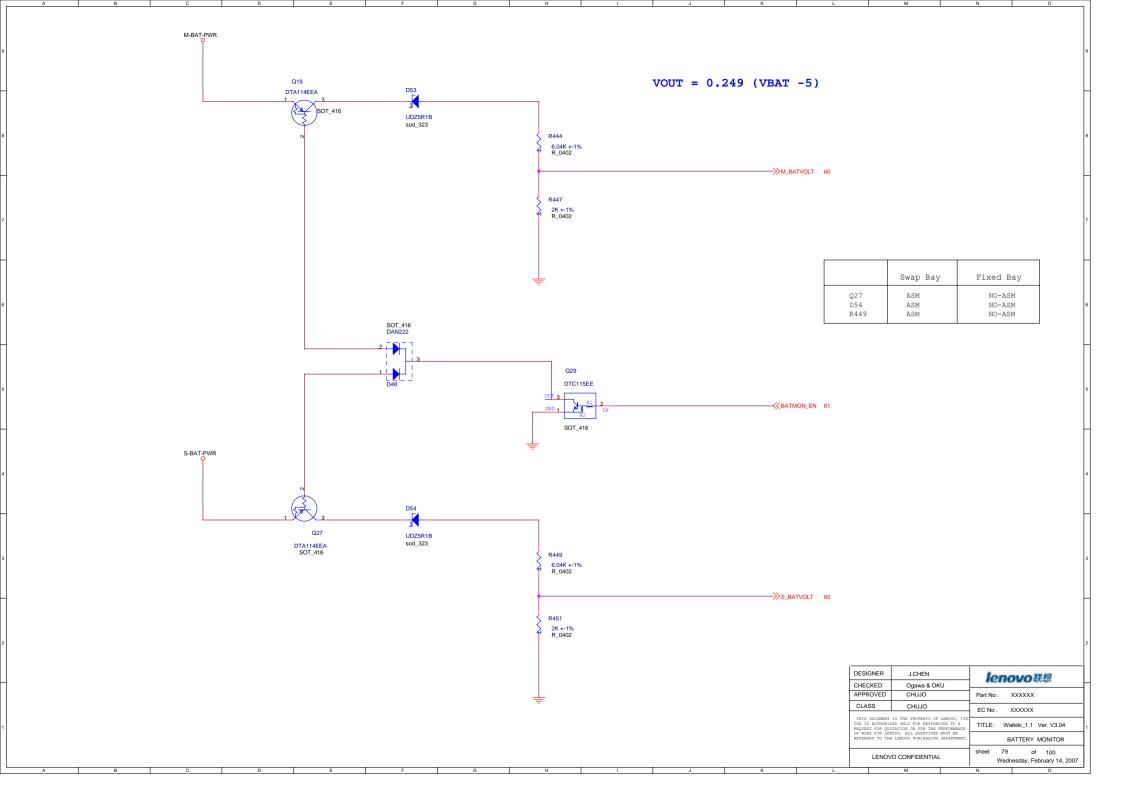


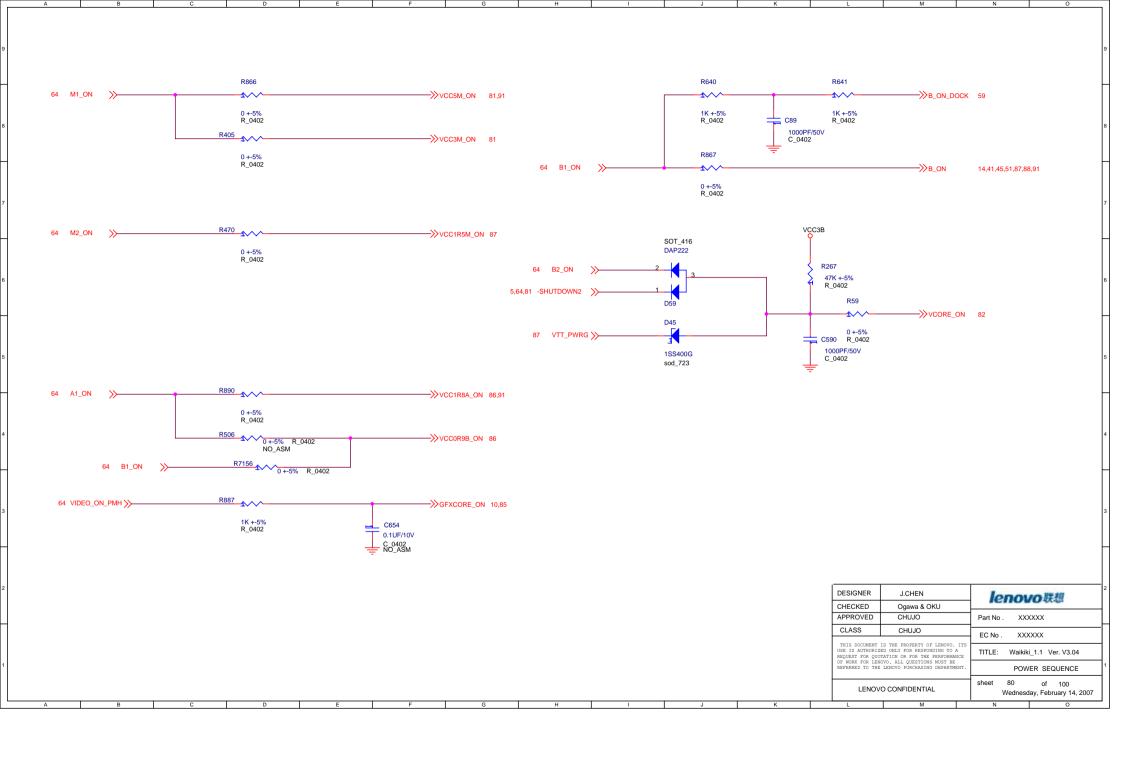


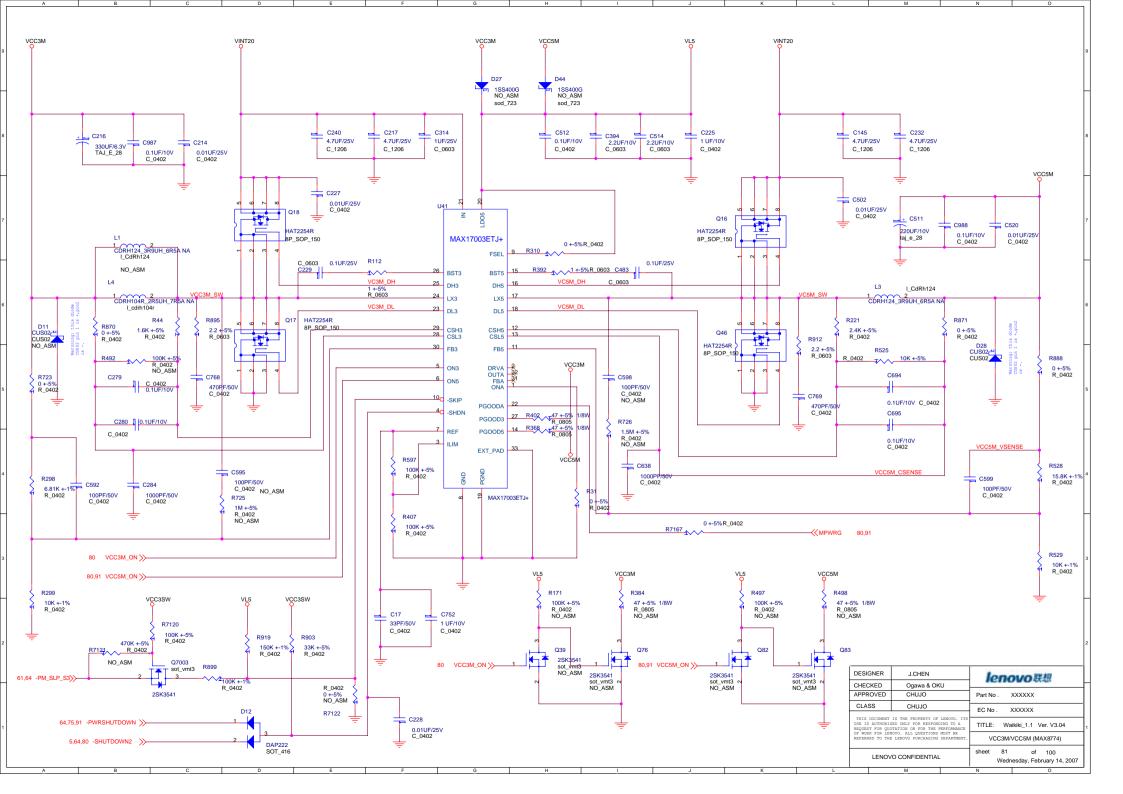


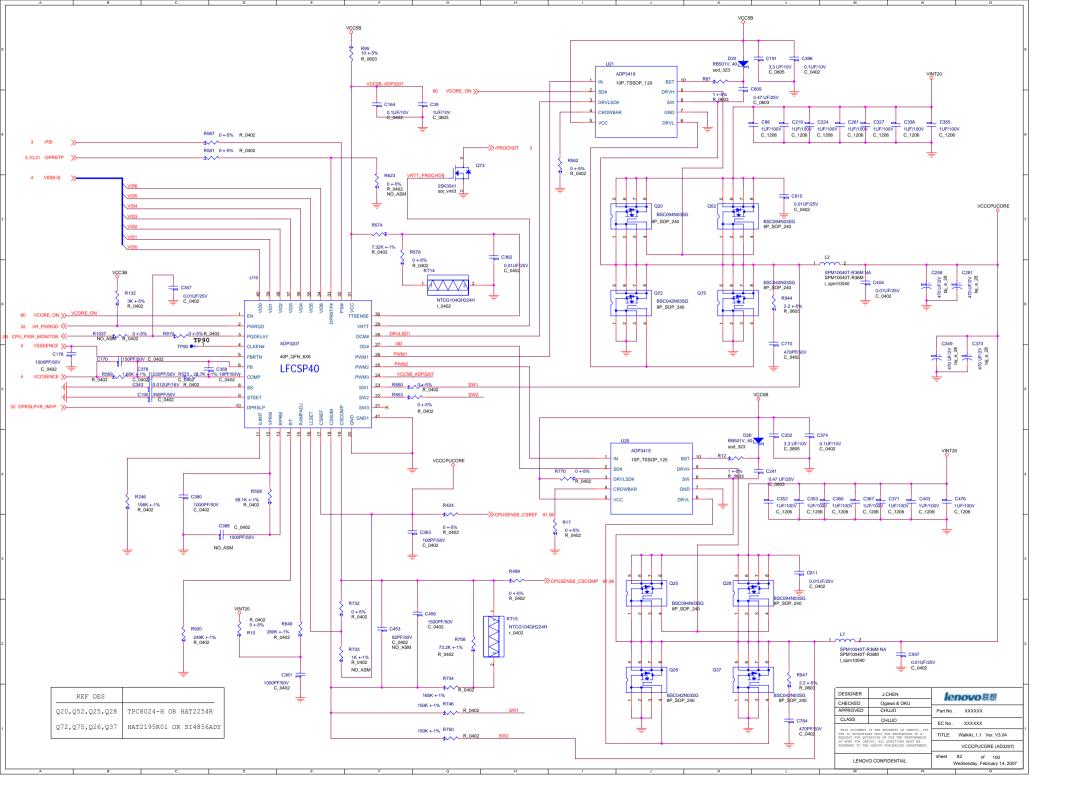


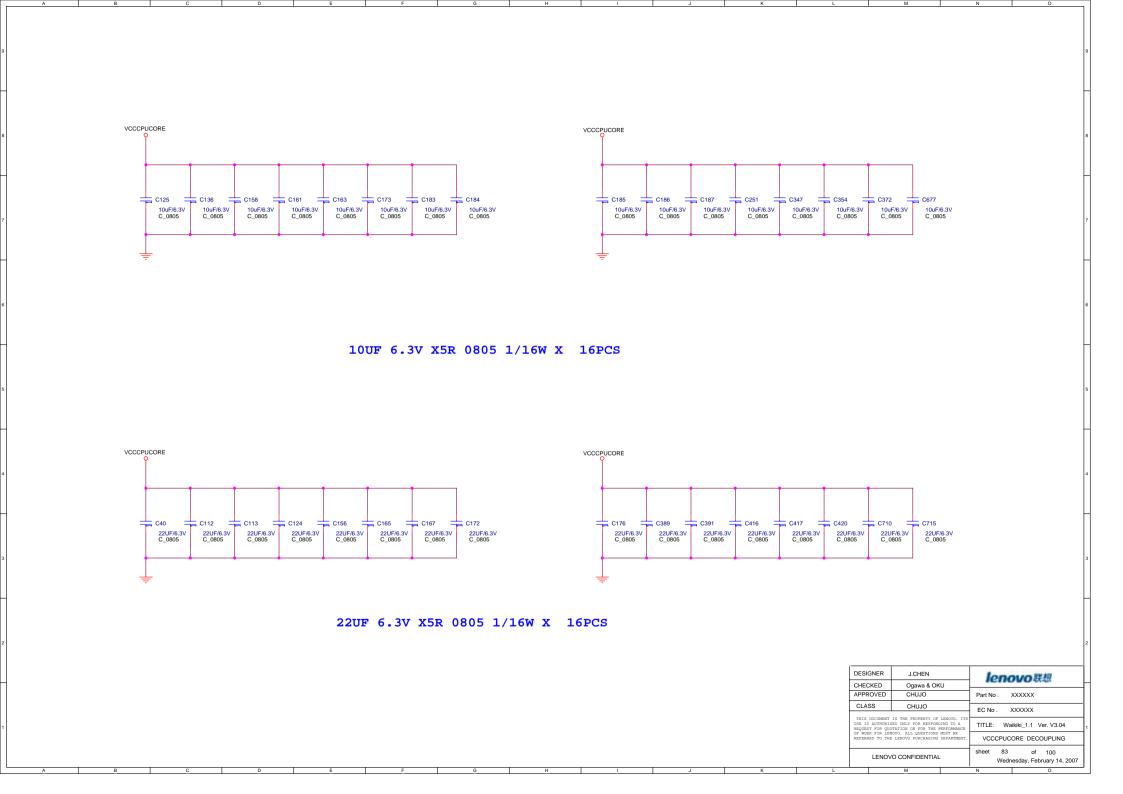






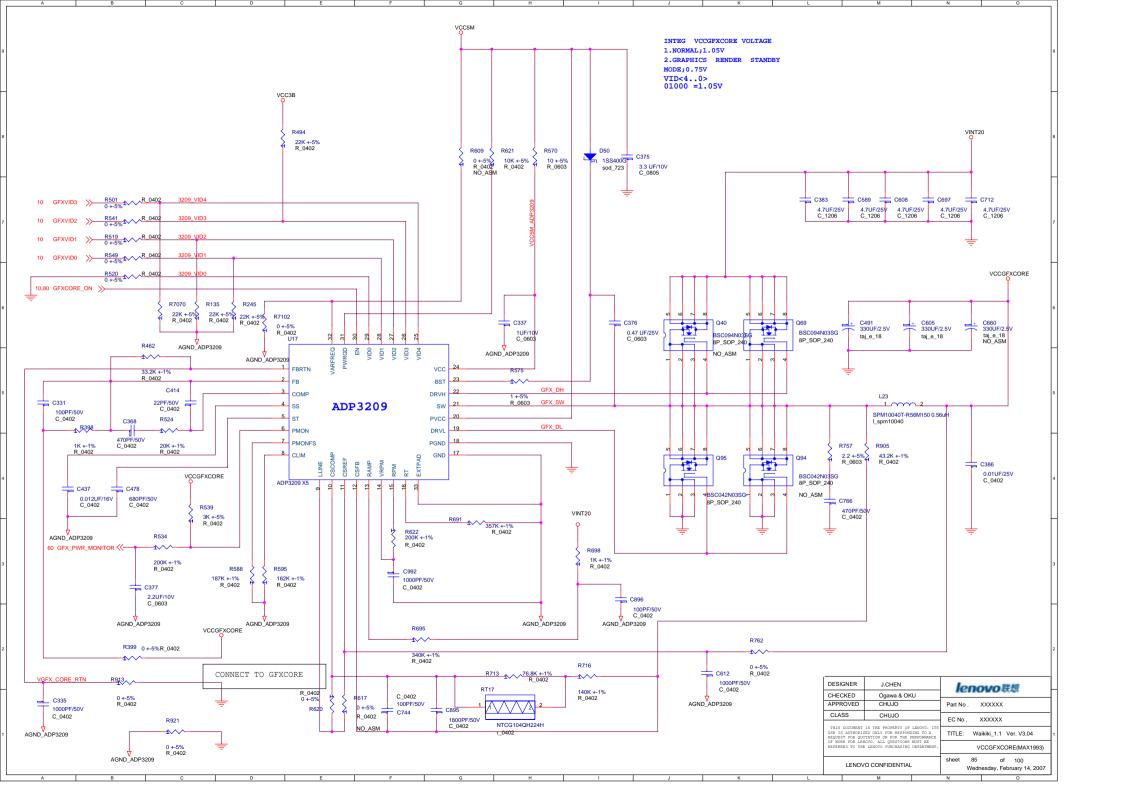


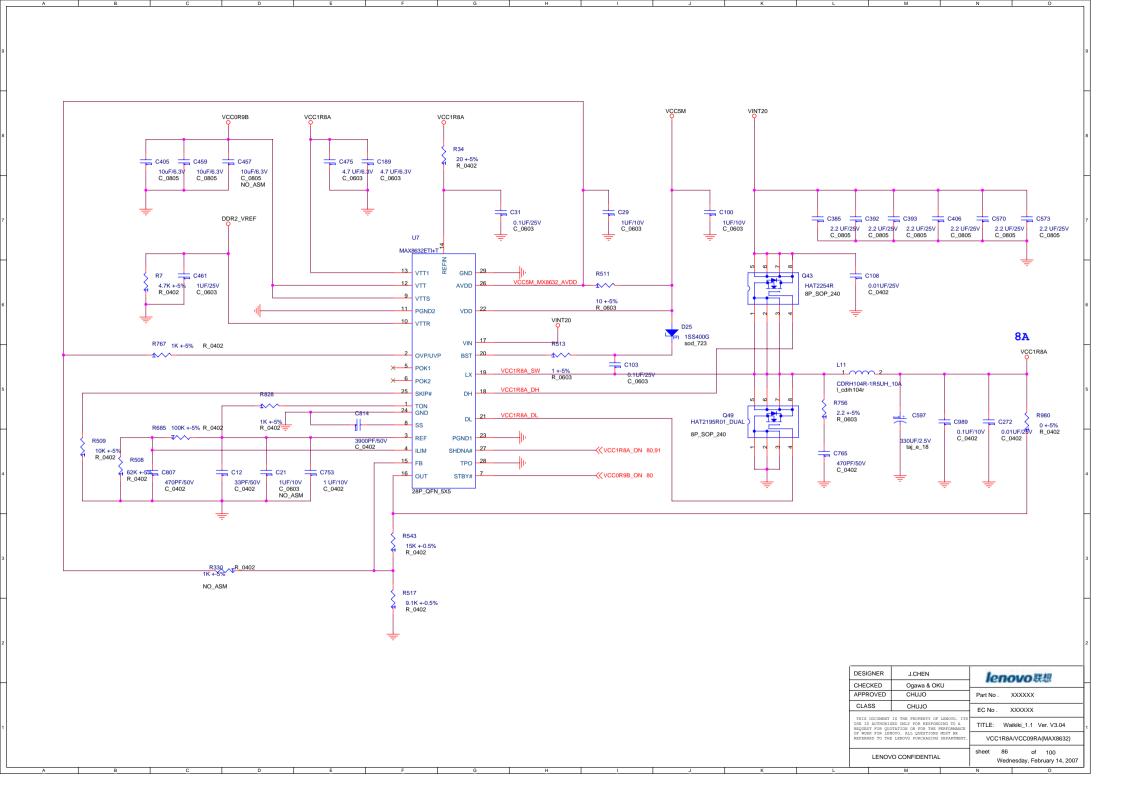


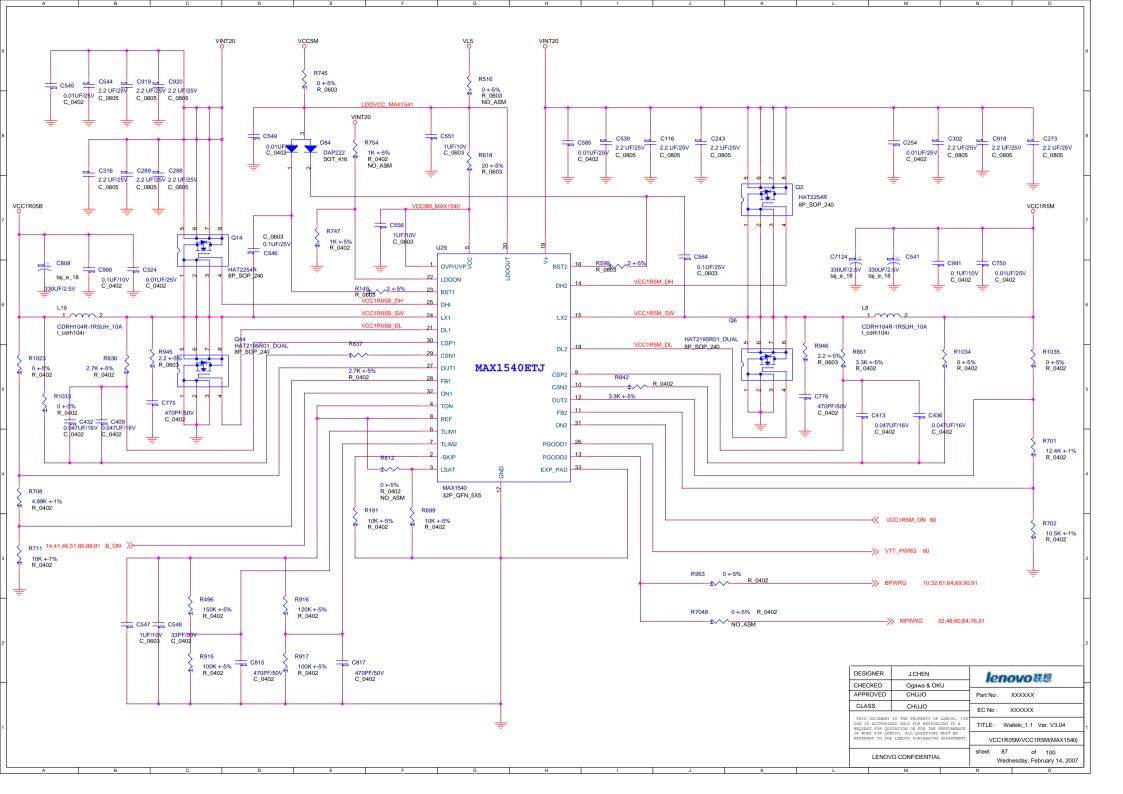


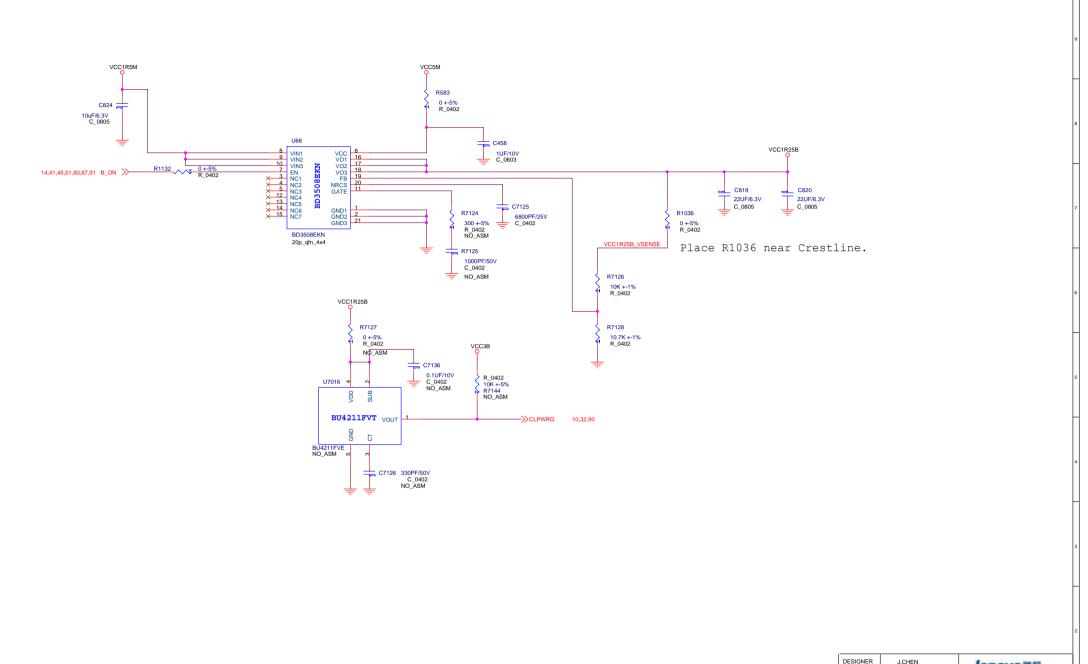
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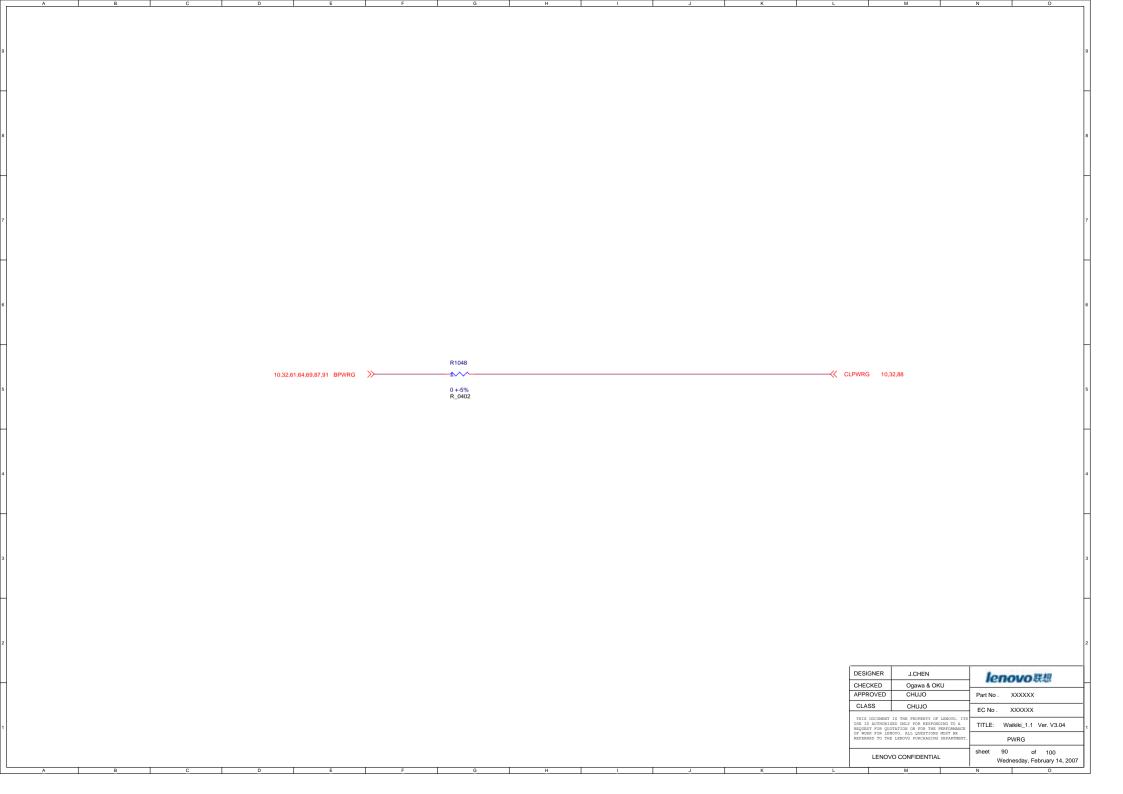
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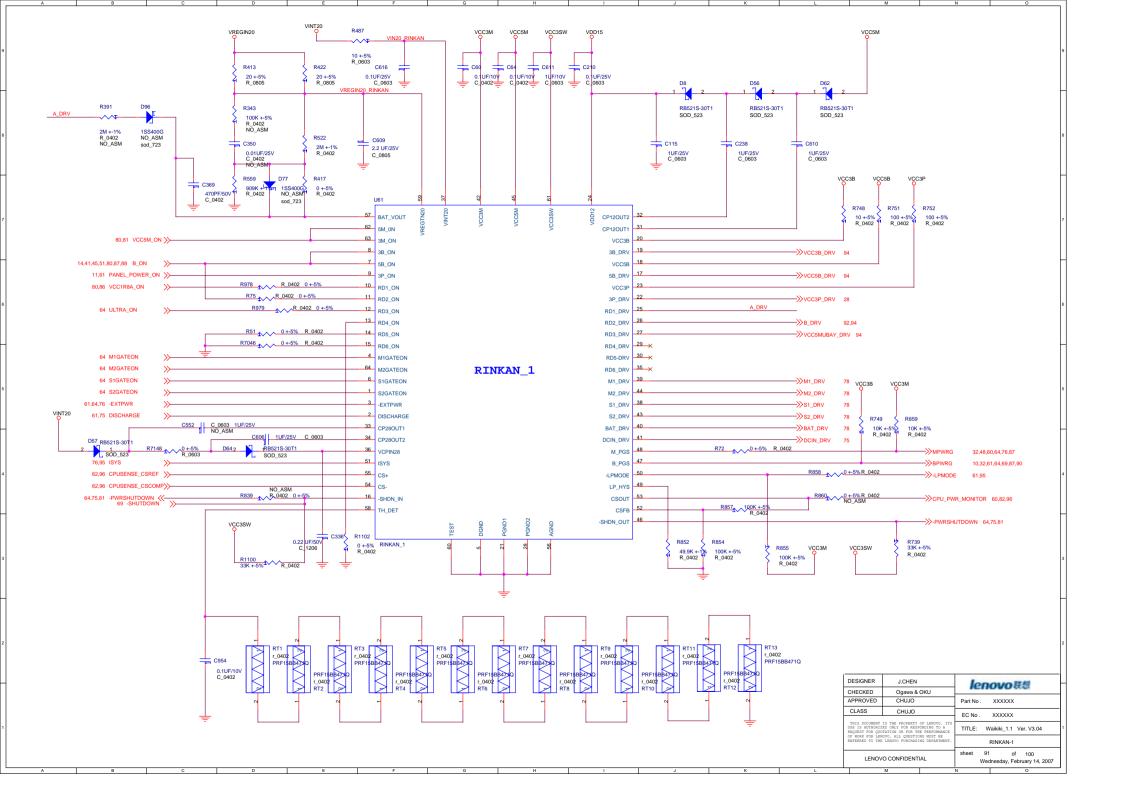
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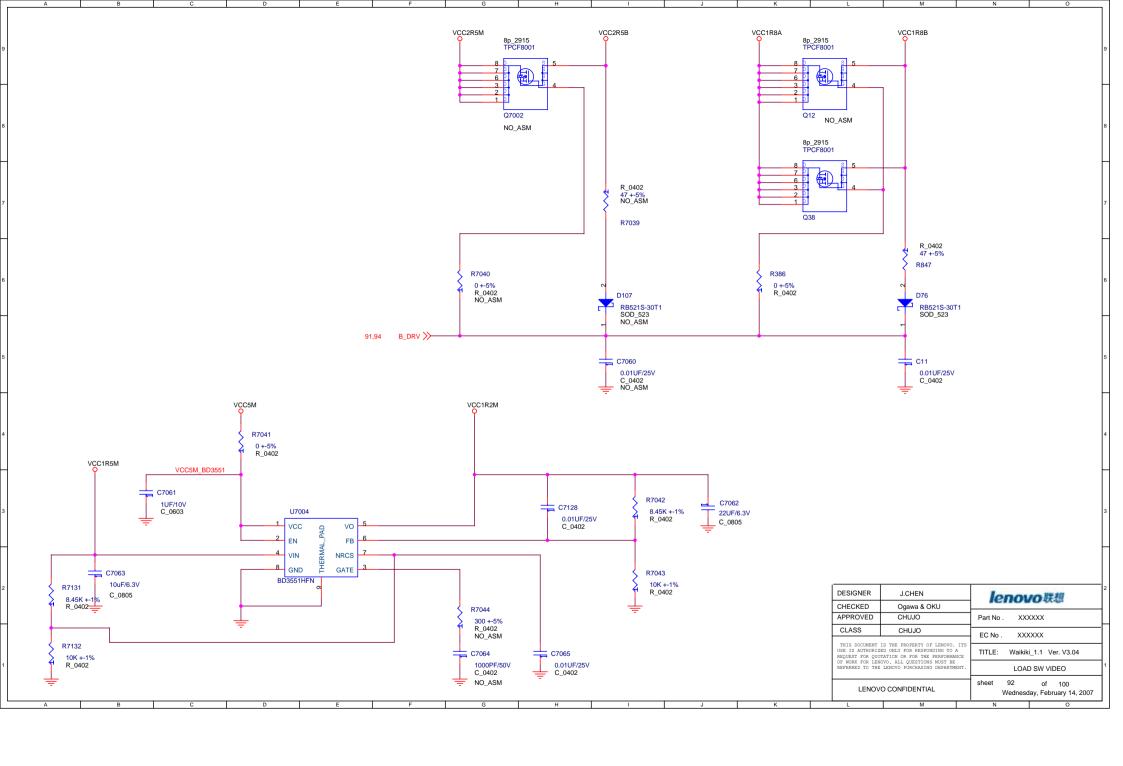
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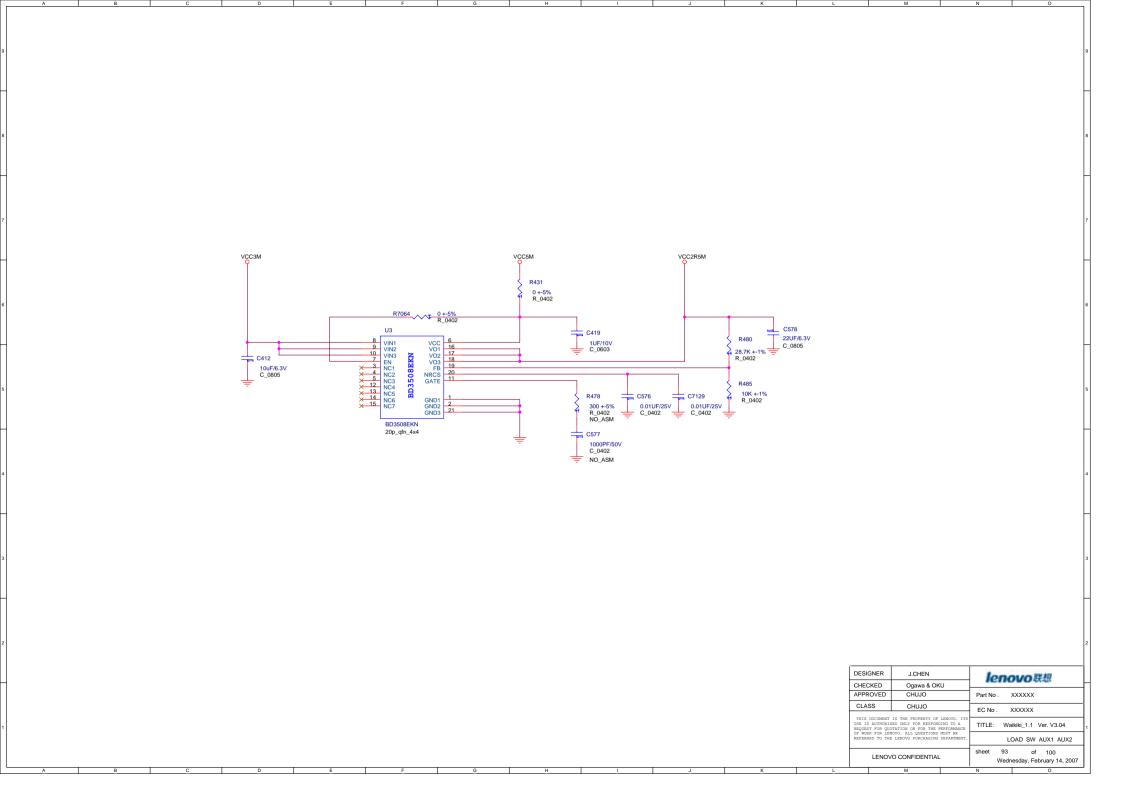
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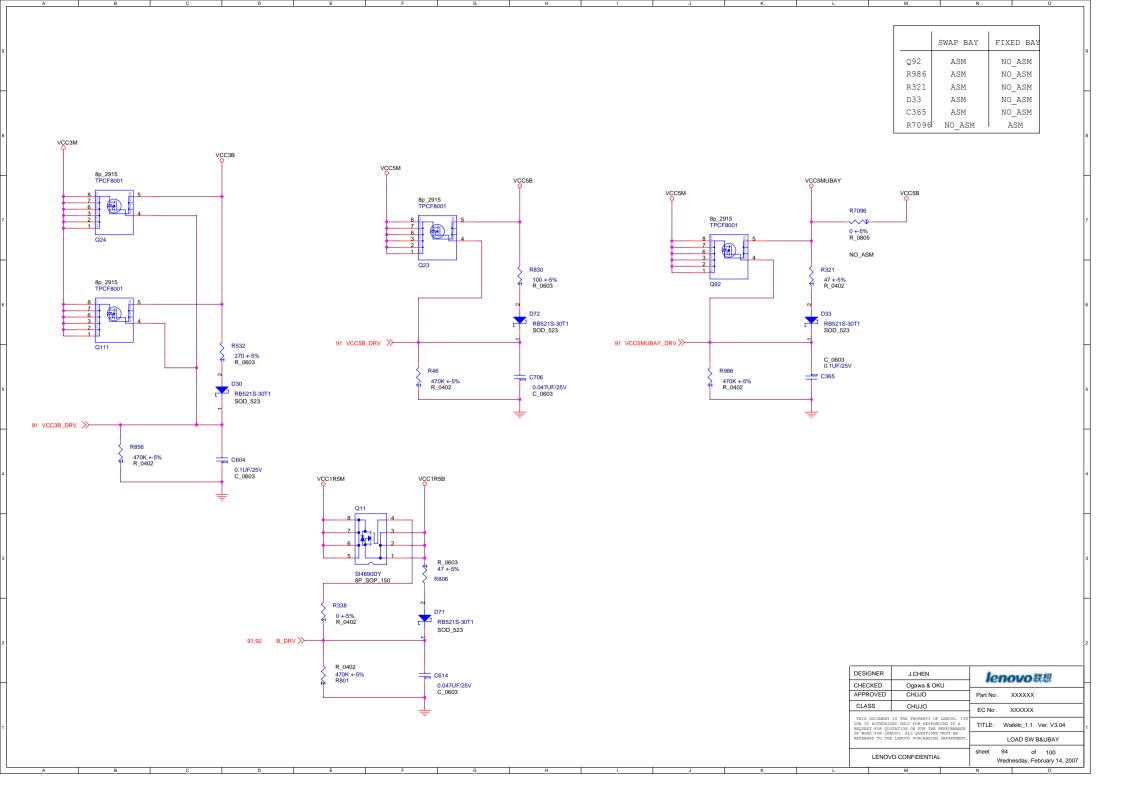
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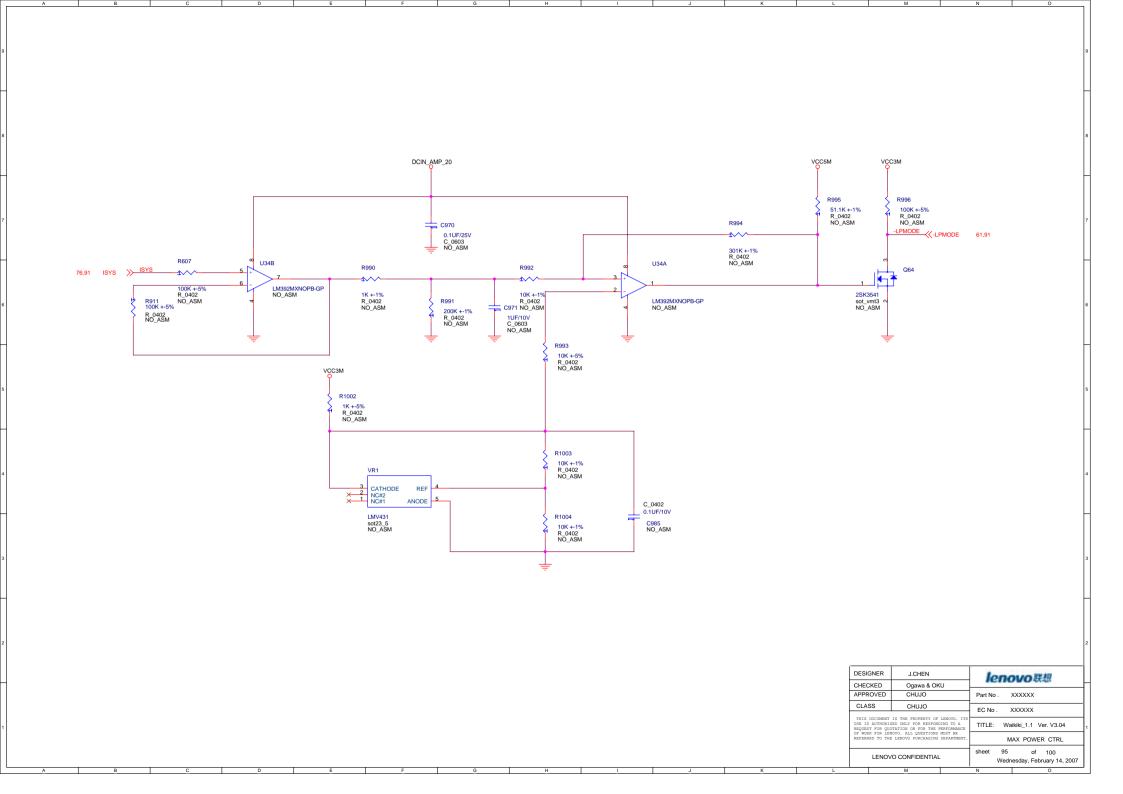


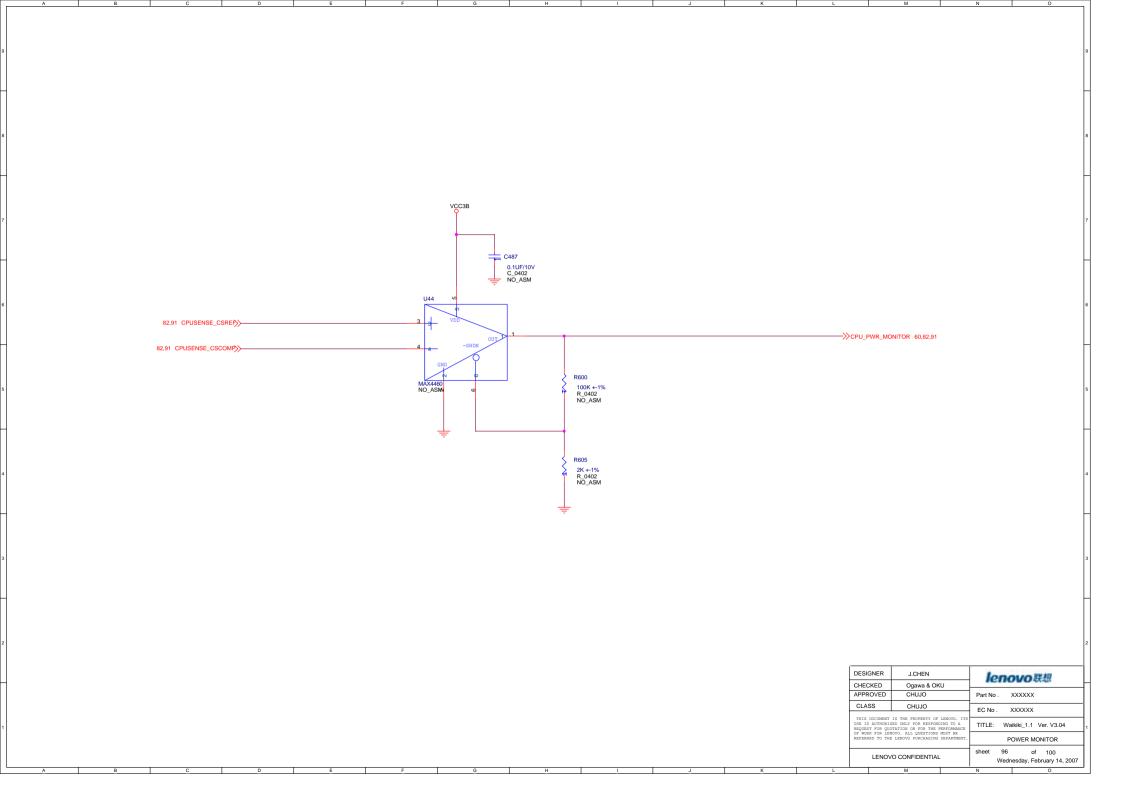


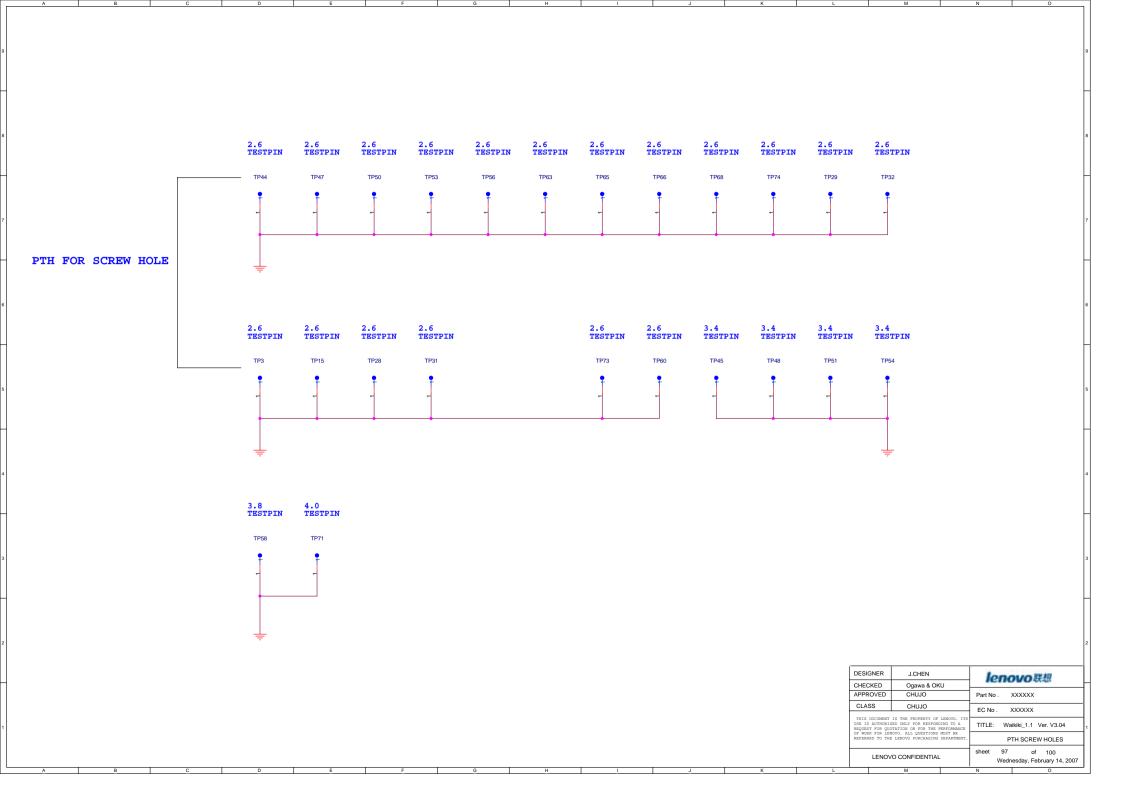












EC Histor	ry List	EC# PAGE Description
		WK_SDV_EC058 46 Change system speaker function with BEEP.
SDV Phase	>	WK_SDV_EC059 Add comments for rating of power components.
EC#	PAGE Description	WK_SDV_EC060 42 C7002 : should be 4.7uF 10V X5R,Q99 : 2SK3541 -> DTC115 WK SDV EC061 61,32 Delete Oohm jumpers and connect directly of H8,and Delete NETDETECT signal.
WK SDV EC001	20 R341 & R27 : 2.2K => 4.7K for DVI ID read fail W /A EC; SDVO CTRL DATA/CLK Pullup value	WK_SDV_EC061 61,32 Delete Oohm jumpers and connect directly of H8,and Delete NETDETECT signal. WK SDV EC062 70 Change from D1 to R7052 Oohm and Delete R212.
change.	20 Rota W. R. 2. 2.2. 2. 4.7 W. For By T. B. Fedd Tull W. / A. 20, Obvo_Cittl_Data/CER Tulling Value	WK SDV EC063 48 To remove hook for R5C584, and circuit for 2nd port of IEEE1394 termination and
WK_SDV_EC002 1R25AMT	88 R598 : 47K 5% => 43.2K 1%,C819 & C820 : 22UF => 10UF/6.3V/10%/2125,to correct value of VCC	non-internal regulator WK_SDV_EC064 48 To update ASM option for IEEE1394 support case (R5C847, R5C803) and non support case
WK_SDV_EC003 -1-Integ/Disc, Da	10 R184 : ASM=>NO ASM, to set default to LOW POWER PCIE (same as DaV	(R5C804) WK SDV EC065 32 Pull-up R272 for CL RST WLAN# -> NO ASM : Intel's recommendation
WK SDV EC004	12 C762 : 0.1UF => 0.47UF/6.3V/10%/1005, C681, C683 : 0.1UF => 0.22UF/6.3V/10%/1005, C733 :	WK SDV EC066 31 Add 4inl Slot Presence Detection ID.
	5.3V/10%/1608, C579: 10UF +>2.2UF/6.3V/20%/2125, C580: 10UF +> 4.7UF/6.3V/10%/2125, to meet Intel	WK SDV EC067 48 To implement feedback of Circuit review by Ricoh
Design Review res		WK_SDV_EC068 60 ADD RC circuit for fix G-sensor noise problem
WK_SDV_EC005	84 R829 : 6.19K 1% 1005 to adjust voltage of VCC 1R05M	
WK_SDV_EC006 WK SDV EC007	Change R1005 from pull down to pull up in order to support MS card R939 ASM($100k\Omega$) -> No ASM	WK_SDV_EC069 70 DEL C41 to remove stub of LPCCLK for TATER WK SDV EC070 81 ADD R7051 R7052 in order to support MAX17003 for Discharge function of VCC3M and
WK SDV EC008	63 R690: NOASM => 100K ASM, Add 100Kohm pulldown to PANEL POWER ON (to meet Intel D.G)	WAS_SDV_ECOTO OF ADD RTOST RTOSZ IN Order to Support MARITOUS for Discharge function of vecsm and VCCSM
WK SDV EC009	45 R908: 27K => 16.2K/1%/1005,to change MICVCC from 4.7V to 3.3V for AD1984	WK SDV EC071 91 ADD R7045 DEL R868,R820,R876,R900 for change RINKAN-1 circuit for correction.
WK_SDV_EC010	32 R345 ASM -> NO_ASM (0ohm),R1009 NO_ASM -> ASM (0ohm, 83G3823) to enable GbE Disabling from	WK_SDV_EC072 70 Change TC7WB125FK to TC7SB384FU,TC7WB126FK to TC7SB385FU due to cost reduction
BIOS Setup Menu		WK_SDV_EC073 55 Change C626,C627 to 0402.
WE ODY ECO12	29 Persona 0100 and note to remove Copyrity JED Completely	WK_SDV_EC074 59,61 Change F14: ASM -> NOASM, 07073, 07074, 07075, 07076 from 470pf to 330pf.
WK_SDV_EC012 WK SDV EC013	Romove Q108 and nets to remove Security LED Completely Carrier Security LED Completely Carrier Security LED Completely Carrier Security LED Completely	<pre>WK_SDV_EC075 76 Change C99,C90,C233 from luF/16V -> luF/10V in order to reflect cap.</pre> WK SDV EC076 86 U7.5 add MPWRG signal workaround for backup
WK SDV EC014	11 Add R772 100K/1% pulldown resistor to VGA BLON (to meet Intel D.G)	WK SDV EC077 55 Remove MDI DETECT circuit and Change the power source of Magnetics from VCC1R8AUX to
WK_SDV_EC015	59 Add C764,C879,C880,C881,(1000pF x 4) at audio lines near the Dock connector.	vcc2r5m.
WK_SDV_EC016	75 Add C882 100pF at ACDC_ID near the DC connector(J24)	WK_SDV_EC078 53 Modify NVRAM strapping and Connect ENERGY_DET to MDI_DETECT.
WK_SDV_EC017	75 Add Q91,Q97,R773 to prevent inrush current from AC adapter to Battery	WK_SDV_EC079 53 Change BCM power source and add some decoupling Cap.
WK_SDV_EC018 WK SDV EC019	75 Change placement note of R11 and R264 in order to prevent connection with VINT 20 85 Remove Q15,R403,R425,R429,R521,R537,R538,R540,R579,R586,R587,R590,R602,r73 change R494 to	WK SDV_ECO80 53 VMAINPRSNT connects VCC3B through R7029,LOW_PWR connects -GBE_DISABLE,Add 0ohm on
	ange R501, R541, R519, R549, R520 from No ASM to ASM, for GFX VID PULLUP W/A until BIOS start for	LAN_XTALI. WK SDV EC081 92 Add VCC1R2M Logic for Broadcom BCM5787M support
	SS2 (Parmanent EC)	WK SDV EC082 93 Add VCC2R5M Logic for Broadcom BCM5787M support
WK_SDV_EC020	Delete R1014,R1015, R1017, R1018, This resiser prevent to on these FET due to low voltage	WK_SDV_EC083 86,87,91,93 Delete VCC1R8AUX and VCC1R8M,ADD VCC1R8A.
level.		WK_SDV_EC084 72 Make device option for G-SENSOR.
WK_SDV_EC022	61 Add R943 100K 5% pullup	WK_SDV_EC085 32 Follow EC043 correct some singnal.
WK_SDV_EC023 WK SDV EC024	14 Change Cap. Parameter C204,C205,C205 from 10V 10% TO 6.3V, 10% 12 ADD C883,C884,C885,C886,C887,C888, AND Remove C734,C735,C736, FOR Add de-cap to VCCGFXCORE	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 EC025	12 Abb C003, C003, C003, C003, C003, ABb Remove C134, C135, C136, FOR Add de-Cap to VecGracons 19 Change C732, C672, C673, C213, C739, C708, C716 to NO ASM, and change R335, R336, R76 to 1 Ohm to	WK SDV EC088 7 Del RIS, RSB7.
	's recommendation	WK SDV EC089 64 Change SPI interface signal jumper resistor from 0 ohm to 33 ohm.
WK_SDV_EC026	28 Change R668 to NO_ASM and R764 to ASM, because GMCH PWM problem was fixed by BIOS	WK_SDV_EC090 85 Add pull-down resistor on Gfx_VID signal.
correction		WK_SDV_EC091 11 change R772 to 100k +-5%, change R7071/R7072 to 33 +-5% for cost reduce.
WK_SDV_EC027	88 add five O ohm resistors: R1053,R1054,R403,R425,R429 in order to follow AMT NON Support	WK_SDV_EC092 38 change FL7 to ACM2012-900-2P,R650/651 to 0 ohm 0603.
WK_SDV_EC028 WK SDV EC029	26,27 Insert two blank pages between Page 26 and Page27. 52,56,59,74 Add Docking BOM Option Tables	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 EC030	63 Add R540,R579, 0 Ohm NO ASM for no Touch Pad support	WK SDV EC095 80,93 Change Q12.1 to VCC1R8M ON Detween U3.7 to U3.6,del R373 and VCC1R8M ON
WK_SDV_EC031	65,67 Change R305,C293,J26 to NO_ASM for no legacy IO	朝於988学-EC096 53 Correct the broadcom lan circuit, like change Ferrite bead to bigger type.
WK_SDV_EC032	37,94 Add R586,R587, and add FixedBay or SwapBay BOM Option tables	WK SDV EC097 31,32,64 Terminate opened pin and unused pin on ICH8M, and del -GBE DISABLE net.
WK_SDV_EC033	73 Change Q97 from DTC115EE to DTC114EE.	WK_SDV_EC098 84 Delete of VCC1R05M power rail.
WK_SDV_EC034 WK SDV EC035	19 Change C672 C213 to NO_ASM 69,91 Change Q59.3PIN from PWRSHUTDOWN to -SHUTDOWN, add net -SHUTDOWN on U61.16PIN for to	WK_SDV_EC099 84 Change assignment of PC card slot connector.
	down signal into IN and OUT	WK_SDV_EC0100 19,33,54 Modify PCIE interface of BCM5787M,remove Robson interface. WK_SDV_EC0101 63 Del C631 and C636 on the FPR USB lines.
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_EC0102 54,57 Add bypass capacitors for VCC3B at miniPCIe slots.
WK_SDV_EC037	94 Change Q11 from HAT2195R01 to Si4890DY for cost reduction	WK_SDV_EC0103 32 Change R7006 from NO_ASM to ASM.
WK_SDV_EC038	29,74 Change RGB signal CAP C448, C449, C596,C648, C651, C653 from 10pF to 22pF.	WK_SDV_EC0104 52,53,54,57 Change MID* netname to MDI* ,correct PCIE slot connect,add Lan eeprom table.
WK_SDV_EC039	32 Change R79 from 100ohm 5% to 39ohm 5% to improve waveform of -PLTRST_FAR	WK_SDV_EC0105 37 Del CD_IN function on ODD. WK SDV EC0106 23 Change R7083 to 130 ohm,D7006 to SML A10MT.TC7WB125AFK to TC7SBL384AFU.
WK_SDV_EC040 =>NO ASM.L23 0.88	85 Change R462 =>ASM,R595 100K=>200K,C744=>ASM,C895 2200PF=>1800PF,R905 59K=>43.2K,C660 18uh=>0.56uh for meet INTEL GMCH SPEC.	WK_SDV_EC0106 23 Change R7083 to 130 ohm,D7006 to SML_A10MT.TC7WB125AFK to TC7SBL384AFU.
WK SDV EC041	78,81 CHANGE C722 0.01uF 25V 1005 10%,C214 C520 C386 C272 C324 C549 C750: 0.01uF 25V 1005 10%	WK SDV EC0108 32 Correct 4 in 1 slot ID.
in order to refle		WK_SDV_EC0109 91 Enable Rinkan_1 -LPMORE function.
WK_SDV_EC042	86 Change R330 =>NO_ASM,R685 150K=>100K,Q43,Q49 =>HAT2195R01_DUAL in order to raise OCP point	WK_SDV_EC0110 53 Follow WK_SDV_EC096. Add strap option for Broadcom.
	age of VCC 1R8M for DDR2	WK_SDV_EC0111 50 Delete VCC3_MC at PC card slot.
WK_SDV_EC043	Delete AMT support circuit, Include change AMT power rail to B power rail, modify AMT	WK_SDV_EC0112 23 Add comments for xd function route.
WK SDV EC044	formation please see EC_FOR_AMT_DISABLE_2.PDF 63 ADD TouchPad/FingerPrint Support information.	WK_SDV_EC0113 Location ID to be consistent to DaVinci-3.Only change Location IDs . NO CHANGE in connection in schematics.
WK SDV EC045	78,79,80 ADD SWAP BAY/FIXED BAY BATTERY option information when built bom	WK SDV EC0114 86 Change L11 to CDRH104R 1R5UH 10A follow DV3.
WK_SDV_EC046	11,14 Add ASM/NOASM table for S -Video support when built bom.	WK_SDV_EC0115 31,53 Connect LAN_RSTSYNC on ICH8 to GND, and modify LAN strapping table.
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	DESIGNER J.CHEN
WK_SDV_EC049 WK SDV EC050	91 R855 change to NO_ASM, R852 chang to 49.9K 1%, change R855 to R9036 32 Add Cardbus ID	IENOVO联想
WK_SDV_ECUSU WK SDV EC051	32 Add Cardous 1D 53,71 Add R7034, 200ohm, chang C591(C7051) to 0.1UF, 1V, 10%, change C301(C7059) to 0.01UF,	CHECKED Ogawa & OKU APPROVED CHUJO Part No . XXXXXXX
25V, 10%	11, 12 11, 1001, 2000mm, Chang 6551(0.001, 10 0.101, 17, 100, Change 6501(0.005, 10 0.0101,	CLASS CHUID
WK_SDV_EC052	61 Change H8 pin assign of S4_STATE#	EC NO. XXXXX
WK_SDV_EC053	72 Change default APS logic for ADXL322.	THIS DOCUMENT IS THE PROPERTY OF LEMOND, ITS USE IS AUTHORIZED ONLY FOR RESPONDING TO A REQUEST FOR QUOTATION OR FOR THE PERCONAMANE TITLE: Waikiki_1.1 Ver. V3.04
WK_SDV_EC054	Change to Wailiki ID from Davinci ID, R1021 NO ASM to ASM, and R1038 ASM to NO ASM	SECURITY OF THE PROPERTY OF TH
WK_SDV_EC055 WK SDV EC056	32 Planar ID 0000b for SDV, R113 NO_ASM to ASM, and R672 ASM to NO_ASM 45 Co-Layout Headphone amplifier AN12946A	
WK_SDV_EC057	45 Replace Ethernet from Nineveh to BCM 5787M (U7002).	LENOVO CONFIDENTIAL sheet 98 of 100 Wednesday, February 14, 2007
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EC Histor	ry List 2	SIV Phase>
EC#	PAGE Description	EC# PAGE Description
	,46,61 Add beep enable circuit and correct connection.	V2.100 CC00(2006/11/16) D : 0001b → 0010b□
WK_SDV_EC0110 43		MK_SIV_EC002 48,49 Change R5C847 to revised part (Ricoh P/N : R5C847-CSP208Q, Lenovo P/N : #DV3209)
WK_SDV_EC0118 23		WK_SIV_EC003 93 Add Cap C7129 0.01uF to NRCS pin of BD3508 for no overshoot of VCC 2R5M.□□
WK_SDV_EC0119 85 WK SDV EC0120 85		WK_SIV_EC004 92 Add tracking circuit to BD 3551HFN for no overshoot of VCC 1R2M.□□ "WK SIV EC005 81 Add level shift circuit (3.3V -> 5V) to ""-PM SLP S3""(High Level 3.3V) in order to meet Skip
WK_SDV_EC0120 85		Mn_siv_scot of MAX 8744 IC." C
WK_SDV_EC0122 23		WK_SIV_EC006 32 To change VCC1R25B DC-DC Swtiching -> LDO for Cost reduction
WK_SDV_EC0123 38		WK_SIV_EC007 81 No_asm MAX8744 discharge circuit□□
WK_SDV_EC0124 52 WK SDV EC0125 61	,53,55 Change pin definition of T1/T2/U12. Change RN54 to discrete resistor .	WK_SIV_EC008 90 Add c7127 0.033uF 1005 to CLPWRG circuit in order to terminate an unexpected pulse,and change digital-transistor to 2SC4617.□
WK SDV EC0126	Parameter change and Error Correction.	WK SIV EC009 88 - to correct "DAV3 SIT EC057".□
WK_SDV_EC0127		WK_SIV_EC010 14 VCCA_CRT_DAC, VCCA_TV_DAC Power is changed to Linear Regulator (3.3V, 300mA)□□
WK_SDV_EC0128 WK SDV EC0129		WK_SIV_EC011 32 in order to improve efficiency of VCC5M and VCC3M during Power-on low power mode□□ WK_SIV_EC012 85 to change R691,R716 resistor size for downsizing.□□
WK_SDV_EC0129 WK SDV EC0130		MK_SIV_EC013 20 Add C631 on net SDV0_CTRLDATA for reduce noice.□□
WK_SDV_EC0131	45 Move Panasonicamplifier from planar layout to dummy subcard.	WK_SIV_EC014 49,50 Follow RICOH review to change C218,C226,C415.
WK_SDV_EC0132		WK_SIV_EC015 To add Drive signal name on each DC-DC
WK_SDV_EC0133 WK SDV EC0134		WK_SIV_EC016 57 To add 10uF cap. for VCC3B of PCIe Cards .(No-ASM)□□ WK_SIV_EC017 70 Add D7013,R7133 to fix voltage leakage from VCC3M to VCC3AMT, and add eeprom for asset ID option
WK_SDV_EC0134		circuit.
WK_SDV_EC0136	91 Change C609 1U 0603 to 2.2U 0805 for prevent power shutdown when AC Adapter attached.	WK_SIV_EC018 to change maker P/N because of EOL Page76 Q4 : FDS6990A -> FDS8978 (Fairchild) Page59 Q85, Page75
WK_SDV_EC0137		Q34 :Si4435ADY -> Si4435BDY. WK SIV EC019 32,62 To add SLP S5# to H8 for AMT function
WK_SDV_EC0138 WK SDV EC0139		WK_SIV_ECU19 32,02 To add EFFCD0221MX (2V 220uF 15m2) Panasonic on BOM as an alternative of C67# C262# C743C760
C527, C529 -> NO_	ASM	C945# (77P1928)."
WK_SDV_EC0140		WK_SIV_ECO21 28 Add capacitor C23 between -BDC_PRESENCE and GND.
WK_SDV_EC0141	53 Change U7003 to 24C64 for the evaluation on DV4.After the evaluation without any issue, we for Volume production to reduce the cost.stuff R7075 R7077,no asm R7076 R7078.	WK_SIV_EC022 14 1)MOW WW39 VCCD_QDAC Design change.2)GMCH-H/VSINC 33=>30 R change.3)Intel Review decap change to 0.001uF
WK SDV EC0142		WK SIV EC023 29 H/VSYNC to CRT L25,L24 change to 30ohm risistor.
WK_SDV_EC0143	85 Change ADP3209 X5 P/N to #DV3190.	WK_SIV_EC024 10 GFXCORE_ON Pullup R73 change to 30K ohm
WK_SDV_EC0144		WK_SIV_EC025 85 GFXVID2 Pullup R494.2 change to VCC3B WK_SIV_EC026 34 to change AMT power architecture for power reduction
WK_SDV_EC0145 WK SDV EC0146		MK SIV ECO27 12 Add 22UF Cap.C7130 to VCCIR8A near Crestine (Intel Recommendation)
WK_SDV_EC0140	Update #DV3123 description to CHIP 0.6UH +-20% 8.2A SMT 2PIN .	WK_SIV_EC028 82 to change C190= 390PF 10% 1005 in order to meet the requirement of GCM
WK_SDV_EC0148	Just correct/update description of schematic.	WK_SIV_EC029 14 to change C690, C725 from 470uF to 220uF.
WK_SDV_EC0149 WK SDV EC0150	23 Change J29 P/N to 42W3121.	WK_SIV_EC030 42 To add ESD protection on audio jack for new ESD standard as NO ASM. WK SIV EC031 97 Change J20(OG 363040) to NO ASM.
WK_SDV_EC0150 WK SDV EC0151	BOM correction /update BOM correction /update	WK SIV EC032 30,31 Change pull-up RN on PATA bus
WK_SDV_EC0152	Correction of Schematics description	"WK_SIV_EC033 20 to change C631 from 56pF to 68pF and change R341 from 4.7K to 5.6K for W/A for DVI detection
WK_SDV_EC0153	Change C11 from 0.01uF to 0.022uF for Capacitance of B DRV being 0.05uF	fail withROM 18, 19, 20WW."
WK_SDV_EC0154 WK SDV EC0155 9	to change Integ GFXCORE DC-DC in order to meet Intel GMCH spec. Change R72 to NO ASM to prevent power shutdown problem when AC is attached.	V2.01 (2006/11/21)
WK_SDV_EC0156 4		WK_SIV_ECO34 70 belete TATER chip (AT8356908),Add new TPM chip WPCT200WG,U46 and nearby parts : NOASM -> ASM WK_SIV_ECO35 81 to change from MAX8744 to MAX17003
WK_SDV_EC0157 8	5 Change R905 from 59k to 43.2k for shortstage of factory.	WK_SIV_ECO36 31 to change from MAAA/44 to MAAI/003 WK_SIV_ECO36 31 Add pull down R7141 to un-used GPIO pin
WK_SDV_EC0158 5	9 F14 NO_ASM to ASM,41A9437	WK_SIV_EC037 97 Delete Hole (TP34 & TP35) and GND Pad
		WK_SIV_ECO38 81 Correction for WK_SIV_ECO05
		WK_SIV_EC039 88 Correction for WK_SIV_EC006 WK_SIV_EC040 85 Correction for WK_SIV_EC015
AMOM Phase	>	WK SIV EC041 29 follow up for WK SIV EC023
EC#	PAGE Description	WK_SIV_EC042 6 Change C445, R476 and R477 on ITP interface to NO ASM.
WK_AMOM_EC001	32 Planar ID : 0000b -> 0001b.R671 : NOASM -> ASM,R114 : ASM -> NOASM	WK SIV ECO43 91 Change CLEWRG connection
	Correction design symbol of 4-in-1 slot, MemoryStick signal assignments were reversed.	WK_SIV_EC044 57 Delete SIM Socket, NOASM WWAN Socket WK_SIV_EC045 20 NOASM DVI I/F chip CH7307C.
WK_AMOM_EC003 with Coronado-3.	70 Add logic to fix 187 error.Use location ID Q113 for 2SK3541and Q114 for DTA114EEA for consistecy	WK_SIV_EC046 31 Disconnect "-CPUSB" & "-CPPE" from ICH
WK_AMOM_EC004	Correction Layout design error in SDV	WK_SIV_EC047 57 To add luF cap. for VCC3M and VCC1R5B of PCIe Cards
WK_AMOM_EC005	Correct design error as symbol of MMBT3904WT1 in SDV	W2 512 ECO 48 81 to change R221 2.4K, R44 1.6K in order to adjust OCP point.
WK_AMOM_EC006 WK AMOM EC007		WK SIV ECO48 81 to thange R221 2.4K, R44 1.6K in order to adjust OCP point. WK SIV ECO49 95 to make all parts of Max power control(LPMODE) circuit NO ASM because RINKAN-1 has this
WK_AMOM_EC007 WK AMOM EC008	EC for Modem,include Add modem DAA logic, delete UWB slot, delete WPAN LED logic, delete MDC	WK_SIV_ECU49 95 to make all parts or Max power control(LPMODE) circuit NO_ASM pecause KINKAN-1 has this function inside.
Connector		WK_SIV_EC050 20 R27 : 4.7Kohm -> 3.9Kohm (NOASM)
	28 Change power source F16 for USB camera from VCC 5B to VCC3B.	WK SIV_EC051 70 U31: Change to Lenovo P/N 41R0763 (Atmel AT978C3203-X5A30) Revision 1.2.D.05 from Lenovo
	32,65,67 DEL Legacy I/O support. Del R305,Q86,R214,J26,and add R7118. ,40,41,42,43,45,46 EC for Audio portion of AMOM.	P/N 41A1090 WK SIV EC052 47 Change AMoM components to Lenovo P/N
WK_AMOM_EC012	39 Pull up U7014 pin RCOSC to VCC3M for wake up event.	MK_SIV_EC053 91 in order to prevent to be applied over stress to input N-channel MOSFET Gate
WK_AMOM_EC013 4	7 Modem connector change to same as RTC battery connector.	WK_SIV_EC054 92 to no_asm VCC2R5B cirucit and change C614 and <u>C11 for DVI no asm</u>
		WK_SIV_EC055 80 to elete VCC3VIDEO circuit for not use. WK_SIV_EC056 70 to Correction for WK_SIV_EC034 DESIGNER J.CHEN LENOVORUM
V1.50 (20		WK 31V ECOSO 70 CO COTTECCTOR TOT WK 31V ECOSO CHECKED Ogawa & OKU
	9 Add R7111 39.2k for enable speaker channel. 7 Add modem connector to follow Conexant design.	WK_SIV_ECOS8 57 Correction for WK_SIV_ECO47,asm C7139 C7140.
WK_AMOM_EC015 4	Silkscreen: "KONA-A">"KONA-B".	WK_SIV_ECU59 Change Audio AMP from MAX9/89 to AN12946A.
WK_AMOM_EC017	ADD insulation sheet to BOM.	THIS DOCUMENT IS THE PROPERTY OF LENOVO. ITS USE IS AUTUSED ONLY FOR RESPONDING TO A REQUEST FOR QUOLATION OF FOR THE PERFORMANCE TITLE: Waikiki_1.1 Ver. V3.04
WK_AMOM_EC018 4	5 DEL Panasonic amplifier circuit.	BEGINST FOR GOVERNMENT OF FOR THE PERFORMANCE OF MORE FOR LEMMON. ALL GUESTIONS MENT BE RETERRED TO THE LEMMON FURCHASING DEPARTMENT. EC History 2
		sheet 99 of 100
		LENOVO CONFIDENTIAL Wednesday, February 14, 2007
	5 4 3	2 1

EC History List 3 EC# PAGE Description V2.03 (2006/11/27) WK SIV EC060 45 Audio AMP schematics Review Comment by Panasonic WK SIV EC061 81 Correction for WK SIV EC048 WK SIV EC062 94 Correction for WK SIV EC054 WK SIV EC063 Change VCCOR9A to VCCOR9B to reduce suspend power consumption WK SIV EC064 47 MBR1, MBR2: Update Lenovo PN TMP-51 -> 41U5466 WK SIV EC065 70 2 TPM solution dual lav. WK SIV EC066 27 Add check ponit card circuit. V2.04 (2006/12/04) WK SIV EC067 5 Add R7157 to support alternate source of Ul. WK SIV EC068 19 Change some resistor fr each clk signal base on signal test. WK SIV EC069 97 Del J20(EMI finger) WK SIV EC070 39 ADD driver ability circuit for SPDIF WK SIV EC071 47 Follow Conexant advice add MJ4, MJ5. V2.05 (2006/12/07) WK SIV EC072 20 R72 change bigger to increase SPD High Voltage and decrese SPD Low Voltag at SPC setup timing WK SIV EC073 30 Change pull-up on PATA bus and change to ASM. DD WK SIV EC074 19 BOM update : Clock Gen new revision (2 sources, alternate) on U2DDD WK SIV EC075 61 Change signal name to correct the polarity. WK SIV EC076 46 Q15 ASM <- NO ASMOOD WK SIV EC077 65 Change P/N of NS SuperI/O to Winbond P/NDDD WK SIV EC078 91 Rinkan-1 Revision update (U61): Lenovo P/N may be changed . WK SIV EC079 56 BOM change J19: 42W3188 (JST, BM04B-SRSS-TBT (LF)(SN)) from 91P9290 (tyco, 1734595-4) WK SIV EC080 76 to change R211: 12.7K -> 16.9K 0.5% in order to make -EXTPWR signal Low when 16V Adapter is attached. WK SIV EC081 Add ASM/NOASM table for TPM and integrated mic V2.06 (2006/12/13) WK SIV EC082 75 change R715 -> 270 5% 0603 WK SIV EC083 56 BM04B-SRSS-TBT (LF)(SN) <- BM04B-SRSS-TBT (LFXSN) WK SIV EC084 Insulation Sheet, Bottom CPU: 42W2759 from 42R9976 WK STV EC085 Lenovo P/N update:TMP-93 -> #DV3107 : R5C804,TMP-90 -> 38L5170 : PCA24S08D-T Rev:LATEST.TMP-98 -> #DV3254 : MAX17003EJT+ WK SIV EC086 55 Add ASM/NO_ASM table to page 55. WK SIV EC087 46 R66: 4.7k ohm 5% <- 47K 5% WK SIV EC088 53 tuning parameter for Y 7001 V2.07 (2006/12/15) WK SIV EC089 Insulation Sheet 42W2759 from 42R9976 WK SIV EC090 Add Dock/Audio asm table. OS-DV6 Phase ----> EC# PAGE Description V2.50 (2007/01/05) WK OS EC001 32 Planar ID: 0011b <- 0010b WK QS EC002 48 J28 : Change to Molex higher one. WK QS EC003 69 U4: MAX6602UE9A+ <- MAX6689, Delete C33/Q21/R404 WK OS EC004 75 To change C72 -> 1000pF to reduce ringing voltage of DC-IN WK QS EC005 85 To change R595 from140K to 162K for VCCGFXCORE OCP adjustment. WK QS EC006 82 to change R746, R750 from 165K to 150K for VCCCPUCORE loadline adjusting .to change R246 from 215k to 195k for VCCCPUCORE OCP adjusting. WK OS EC007 32 Correct Pull-up of R37 : VCC3M <- VCC3B WK QS EC008 34 To add 2.2uF Capacitor C7141 between VCCGLANPLL and GND. This is Intel's strong recommendation. WK QS EC009 23 J29 (4-in-1 slot) changes to improved one Lenovo P/N 42W3192 (tyco 1981456-1) from 42W3121 WK QS EC010 61 Change R218, R7160 to indicate Thermal sensor ID. V2.51 (2007/01/10) WK QS EC011 BOM change to QS samples of Intel Chipset WK_QS_EC012 53 Broadcom EEPROM size change for Self -boot code WK QS EC013 61 Add pull-up R7161 for KBGA20# from Intel AMT workshop feedback WK_QS_EC014 48 Follow WK_QS_EC002: Apply to change 1394 connector to Molex 48126-1211 WK OS EC015 69 Apply WK OS EC003 assessment WK QS EC016 32 Follow WK QS EC001 Update BOM: R114 -> NOASM, R671 -> ASM WK QS EC017 23 J29: #DV3283 (tyco 1989456-1) <- 42W3121 WK QS EC018 86 To change R508 to 62K 5% 1/16W 1005 for VCC1R8A OCP adjusting. WK QS EC019 87 To change R149 from 10hm to 20hm for VCC1R05B ringing fail.to change R599 from 10hm to 20hm for VCC1R5M ringing fail. WK QS EC020 27 Del small debug card circuit.

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V2.52 ( 2007/01/12 )
WK OS EC021 48.49 U20: #DV3293 (Ricoh R5C847-CSP2080(Lotcode 7Ax0FO or later)) <- #DV3209
WK OS EC022 82
                   to change R246 to 196K 1% for VCCCPUCORE OCP adjusting.
WK QS EC023 23
                  J29: #DV3283 (tyco 1981456-1) <- tyco 1989456-1
WK QS EC024 32
                  C7122 : 41A9849 1000pF 10% X7R 50V <- 04P9749 1000pF 10% X7R 25V
WK OS EC025 65
                  U26: 41R0755 (Winbond WPCN385LAODG) <- #DV3104 (Winbond WPCN385CDG) 41R0755 doesn't
support CIR.
 V2.53 ( 2007/01/25 )
WK OS EC026 87 To connect PGOOD2 to BPWRG to reduce the affection of VCC1R5M's undershoot.
STT Phase ---->
EC#
                  PAGE
                                 Description
 V3.00 ( 2007/01/29 )
WK SIT EC001 32 Planar ID chagne 0010b-->0100b
WK_SIT_EC002 87 To connect "PGOOD2" to "BPWRG" to reduce the affection of VCC1R5M's undershoot.
WK SIT EC003 31 Del comments.
WK SIT EC004 29 To change RGB line's Beads value in order o minimize undershoot voltage.
WK SIT EC005 53 Cut the SM BUS to Broadcom.
WK SIT EC006 53 To support low pwr mode of BCM5787M.
WK SIT EC007 41 To separate bias voltage of mic amp from int mic.
WK SIT EC008
                For cost, change Lan EEPOM to 24C04.
WK SIT EC010 43,45 To adjust sound quality om microphone, to optimize Mute circuit
WK SIT EC011 81 To connect U41-22PIN to MPWRG for workaround of Toshiba Rinkan MPWRG problem.
WK SIT EC012 5 To add second source of U1.
 V3.01 ( 2007/01/30 )
WK SIT EC013 52 Remove the temination for Ethernet.
 V3.02 ( 2007/02/01 )
WK SIT EC014 94 To change C706 to 0.047uf for quick ramp-up of VCC5B in order to delete a little of VR PWRGD
for CPU CORE.
WK SIT ECO15 41 Add ASM/NOASM table for KONA config.
WK SIT EC015 28 Change C313 to 41A1111 1UF/25V 0603.
WK SIT EC016
                  Update ASM option table for waikiki 1.1 low and Kona-1.1.
 V3.03 ( 2007/02/07 )
WK SIT EC018 41 Follow WK SIT EC015, correct typo in description
WK SIT EC019 86 To change comment of U7 to MAX8632.
WK SIT EC020 51 U7003 : Lenovo P/N 41R0777
                  ADD revised R5C804 in Kona-1.1 BOM
WK SIT EC021
WK SIT EC022
                  ADD Crestline-GL in USI KONA BOM
WK SIT EC023
                  Additional insulation sheet.
WK_SIT EC024
                  To drop ISL88550A (Intersil) as U7 alternate component because it has some issues
 V3.04 ( 2007/02/13 )
WK SIT EC025 1 To modify title Page.
                 To drop RJK) #!^DSP from all bom at SIT phase.
WK SIT EC026
WK SIT EC027
                 F3 change to 0 ohm 0603, F7 change to 0 ohm 1206
WK SIT EC029
                 U61 Toshiba Rinkan version change to 1.5.
WK SIT EC030
                 D103, D104 change to NO ASM, U12 use TS3L500ERHUR or PI13L500A.
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DESIGNER	J.CHEN	lenovo联想			
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CLASS	CHUJO	EC No . XXXXXX			
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