

ICH6 GPIO SETTING

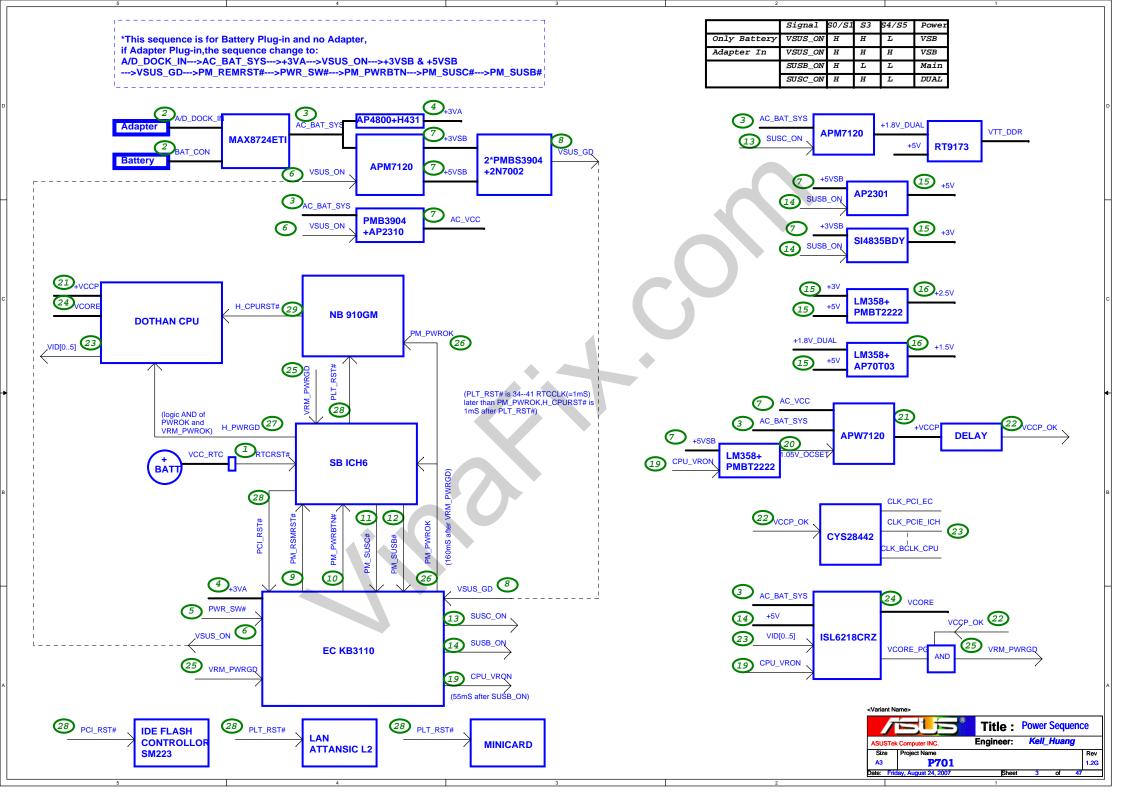
Pin	Pin Name	Connect to	Туре	Input/Output Set
B7	GPI0/REQ6#	10K Pull +3V	1	fixed as Input only
E8	GPI1 / REQ5#	10K Pull +3V	1	fixed as Input only
D9	GPI2 / PIRQE#	10K Pull +3V	1	fixed as Input only
C 7	GPI3 / PIRQF#	10K Pull +3V	1	fixed as Input only
C6	GPI4 / PIRQG#	10K Pull +3V	1	fixed as Input only
M3	GPI5 / PIRQH#	10K Pull +3V	1	fixed as Input only
AD19	GPI6 / BMBUSY#	NB BMBUSY#	1	Input
AE19	GPI7	NC	GPI	fixed as Input only
R1	GPI8	EC KBC_SCI#	GPI	fixed as Input only
C23	GPI9/OC4#	10K Pull +3V	1	Input
D23	GPI10/OC5#	10K Pull +3V	1	Input
W6	GPI11/SMBALERT#	10K Pull +3V	1	Input
M2	GPI12	NC	GPI	fixed as Input only
R6	GPI13	EC EXTSM#	GPI	fixed as Input only
C25	GPI14/OC6#	10K Pull +3V	1	Input
C24	GPI15 /OC7#	10K Pull +3V	1	Input
D8	GPO16/GTN6#	NC	0	Output
F6	GPO17 / GNT5#	NC	0	Output
AC21	GPO18 / STP_PCI#	Clock GEN STP_PCI#	0	Output
AB21	GPO19	WLAN_LED#	GPO	fixed as Output only
AD22	GPO20 / STP_CPU#	STP_CPU#	0	Output
AD20	GPO21	NC	GPO	fixed as Output only
NA	GPIO22	NA	NA	NA
AD21	GPO23	NC	GPO	fixed as Output only
V3	GPIO24	WLAN	1/0	Output
P5	GPIO25	NC	1/0	Output

Pin	Pin Name	Connect to	Туре	Input/Output Set
AF17	GPI26/SATA0GP	NC	GPI	(GPI)Input
R3	GPIO27	NC	1/0	Output
T3	GPIO28	NC	1/0	Output
AE18	GPI29 / SATA1GP	PCBVER0	GPI	(GPI)Input
AF18	GPI30 / SATA2GP	NC	GPI	(GPI)Input
AG18	GPI31 / SATA3GP	PCBVER1	GPI	(GPI)Input
AF19	GPIO32 / CLKRUN#	10K Pull +3V	1/0	Input
AF20	GPIO33	NC	1/0	Output
AC18	GPIO34	NC	1/0	Output
NA	GPIO35	NA	NA	NA
NA	GPIO36	NA	NA	NA
NA	GPIO37	NA	NA	NA
NA	GPIO38	NA	NA	NA
NA	GPIO39	NA	NA	NA
F7	GPI40 / REQ4#	10K Pull +3V	1	Input
P4	GPI41 / LDRQ1#	NC	1	Input
NA	GPIO42	NA	NA	NA
NA	GPIO43	NA	NA	NA
NA	GPIO44	NA	NA	NA
NA	GPIO45	NA	NA	NA
NA	GPIO46	NA	NA	NA
NA	GPIO47	NA	NA	NA
E7	GPO48 /GNT4#	NC	0	Output
AC25	GPO49 / CPUPWRGD	CPU Power Ok	0	Output

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EC KB3310 GPIO SETTING

Pin No.	Pin Name	Signal Name	Туре	NOTE
1	GA20	A20GATE	0	A20GATE
2	KBRST#	RC_IN#	0	KBRST#
6	GPIO04	EMAIL_SW#	1	EMAIL_SW#, *
13	PCIRST#	PCI_RST#	1	PCI Reset
14	GPIO07	N.C	0	Reserved
15	GPIO08	EXTSMI#	0	EXTSM#, 10K Pull +3VSUS
16	GPIO0A	LID_EC#	I	LID_EC#, *
17	GPIO0B	LCD_CSB	0	LCD chip select
18	GPIO0C	LCD_SDA	I/O	LCD Data
19	GPIO0D	DISTP_SW#	1	Touch Pad Disabled
20	SCI#	KBC_SCI#	0	KBC_SCI#, 10K Pull +3VSU
21	PWM1	BL_PWM_DA	0	LCD Light Switch
23	PWM2	LCD_SCL	0	LCD clock
25	GPIO11	PM_PWRBTN#	OD	Power Button to SB,
26	FANPWM1	FANO_PWM	0	CPU Fan(Unused)
27	FANPWM2	FAN1_PWM	0	VGA Fan(Unused)
28	FANFB1	FAN0_TACH	1	CPU FanTach(Unus
29	FANFB2	FAN1_TACH	1	VGA FanTach(Unus
30	GPIO16	E51_TX	0	RS232 debug port
31	GPIO17	N.C	0	Reserved
32	GPIO18	PWR SW#	1	power button, *
34	GPIO19	MAIL LED#	0	Mail LED(Unused)
36	GPIO1A	NUM_LED#	0	EC H/W controls(Unused
38	CLKRUN#	N.C	0	Reserved
39	KSO0	KSO0	0	For Keyboard interfa
40	KSO1	KSO1	0	For Keyboard interfe
41	KSO2	KSO2	0	For Keyboard interfe
42	KSO3	KSO3	0	For Keyboard interfa
43	KSO4	KSO4	0	For Keyboard interfe
44	KSO5	KSO5	0	For Keyboard interfe
45	KS06	KSO6	0	For Keyboard interfe
46	KS07	KS07	0	For Keyboard interfe
47	KS08	KSO8	0	For Keyboard interf
48	KS09	KSO9	0	For Keyboard interfe
49	KSO10	KSO10	0	•
50			0	For Keyboard interf
51	KS011	KS011		For Keyboard interfe
51 52	KS012	KSO12	0	For Keyboard interfe
	KS013	KSO13	0	For Keyboard interfa
53	KS014	KS014	0	For Keyboard interfe
54	KSO15	KSO15	0	For Keyboard interfe
55	KSI0	KSI0	I	For Keyboard interfa
56	KSI1	KSI1	I I	For Keyboard interfa
57	KSI2	KSI2	1	For Keyboard interfe
58	KSI3	KSI3	I	For Keyboard interfa
59	KSI4	KSI4	1	For Keyboard interfa
60	KSI5	KSI5	I	For Keyboard interfa
61	KSI6	KSI6	1	For Keyboard interfa
62	KSI7	KSI7	1	For Keyboard interfa
63	AD0	P_PMON_10	1	Sense Power Loadin
64	AD1	BAT_IN	I	sense Battery
65	AD2	N.C	I	Reserved
66	AD3	N.C	I	Reserved
68	GPO3C	DOC	0	Trigger Clock Gen

Pin No.	Pin Name	Signal Name	Туре	NOTE
70	GPO3D	LCD_BACKOFF#	0	LCD_BACKOFF#
71	GP03E	CLK_PWRSAVE#	0	Active when BAT_IN=1 and
72	GPO3F	BAT_LL#	0	AC_OK=0(Unused) Battery Low Low
73	GPIO40	AC_OK	1	AC Adaptor Plug in
74	GPIO41	PM_RSMRST#	0	10K Pull GND
75	GPIO42	N.C	0	Reserved
76	GPIO43	N.C	0	Reserved
77	SCL1	SMB0_CLK	I/OD	4.7K Pull +3VA_EC
78	SDA1	SMB0_DAT	I/OD	4.7K Pull +3VA_EC
79	SCL2	SMB1_CLK	I/OD	10K Pull +3VS
80	SDA2	SMB1_DAT	I/OD	10K Pull +3VS
81	KSO16	N.C	0	Reserved
82	KSO17	N.C	0	Reserved
83	PSCLK1	N.C	0	Reserved
84	PSDAT1	N.C	0	Reserved
85	PSCLK2	N.C	0	Reserved
86	PSDAT2	N.C	0	Reserved
87	PSCLK3	TP_CLK	I/OD	10K Pull +3VS
88	PSDAT3	TP_DAT	I/OD	10K Pull +3VS
89	GPIO50	BATSEL_3S	0	Battery series. Hi:3S, Lo:4S(Unused)
90	GPIO52	CHG_LED_UP#	0	charger LED
91	GPIO53	CAP_LED#	0	EC H/W controls
92	GPIO54	PWR_LED_UP	0	EC H/W blinking
93	GPIO55	SCRL_LED#	0	EC H/W controls
95	GPIO56	PWR4G_SW#	1	*
97	GPXOA00	SPI_MODE#	0	"HW Strap for SPI Flash de External
98	GPXOA01	SUSC_ON	0	Pull Down 100K ohm to GND"
99	GPXOA02	VSUS_ON	0	
100	GPXOA03	CPU_VRON	0	
101	GPXOA04	SUSB_ON	0	
102	GPXOA05	ICH8_PWROK	0	
103	GPXOA06	N.C	0	Reserved
104	GPXOA07	CHG_EN#	0	Battery charging enable
105	GPXOA08	PRECHG	0	
106	GPXOA09	SPI_WP#	0	
107	GPX0A10	OP_SD#	0	Audio OP
108	GPXOA11	BAT_LEARN	0	
109	GPXID0	BATSEL_2P#	0	Battery parallel. Hi:1P, Lo:2P~3P
110	GPXID1	N.C	0	Reserved
112	GPXID2	THRO_CPU	0	Active if Battery Temperature is
114	GPXID3	SUSB#	1	Pull Dewn 100K ohm to GN
115	GPXID4	SUSC#	1	Pull Down 100K ohm to GN
116	GPXID5	CPUPWR_GD	1	10K Pull +3VS
117	GPXID6	VSUS_GD	1	Disabled **
118	GPXID7	N.C	0	Reserved
121	GPIO57	INTERNET#	1	*
126	SPICLK	SPI_CLK	0	SPI Clock
127	GPIO59	N.C	0	Reserved

EC KB3310 Other Pin SETTING

Pin No.	Pin Name	Signal Name	Туре	NOTE
3	SERIRQ	INT_SERIRQ	I/OD	8.2K Pull +3VS
4	LFRAME#	LPC_FRAME#	1	
5	LAD3	LPC_AD3	1/0	
7	LAD2	LPC_AD2	1/0	
8	LAD1	LPC_AD1	1/0	
9	VCC	+3VA_EC	P	
10	LAD0	LPC_AD0	1/0	
11	GND	GND	P	
12	PCICLK	CLK_PCI_EC	1	
22	VCC	+3VA_EC	P	
24	GND	GND	P	
33	VCC	+3VA_EC	P	
35	GND	GND	P	
37	ECRST#	EC_RST#	1	Add 100K ohm to GN
67	AVCC	+3VACC	P	
69	AGND	AGND	P	
94	GND	GND	P	
96	VCC	+3VA_EC	P	
111	VCC	+3VA_EC	P	
113	GND	GND	P	
119	RD#	SPI_SO	1	
120	WR#	SPI_SI	0	
112	XCLKI	32KXCLKI	1	
123	XCLKO	32KXCLKO	0	
124	V18R	K_V18R		Reserved 1uF to GNL
125	VCC	+3VA_EC	P	
128	SPICS#	SPI CE#	0	

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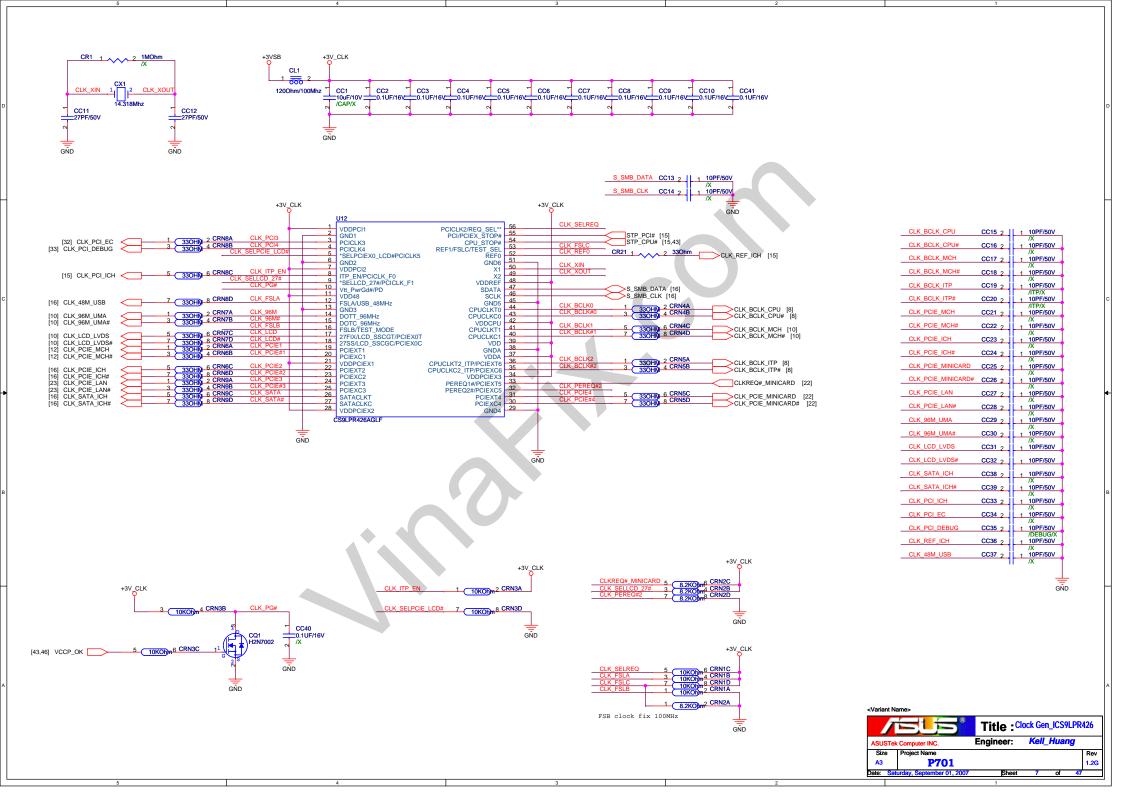
CIRCUIT UPDATED HISTORY

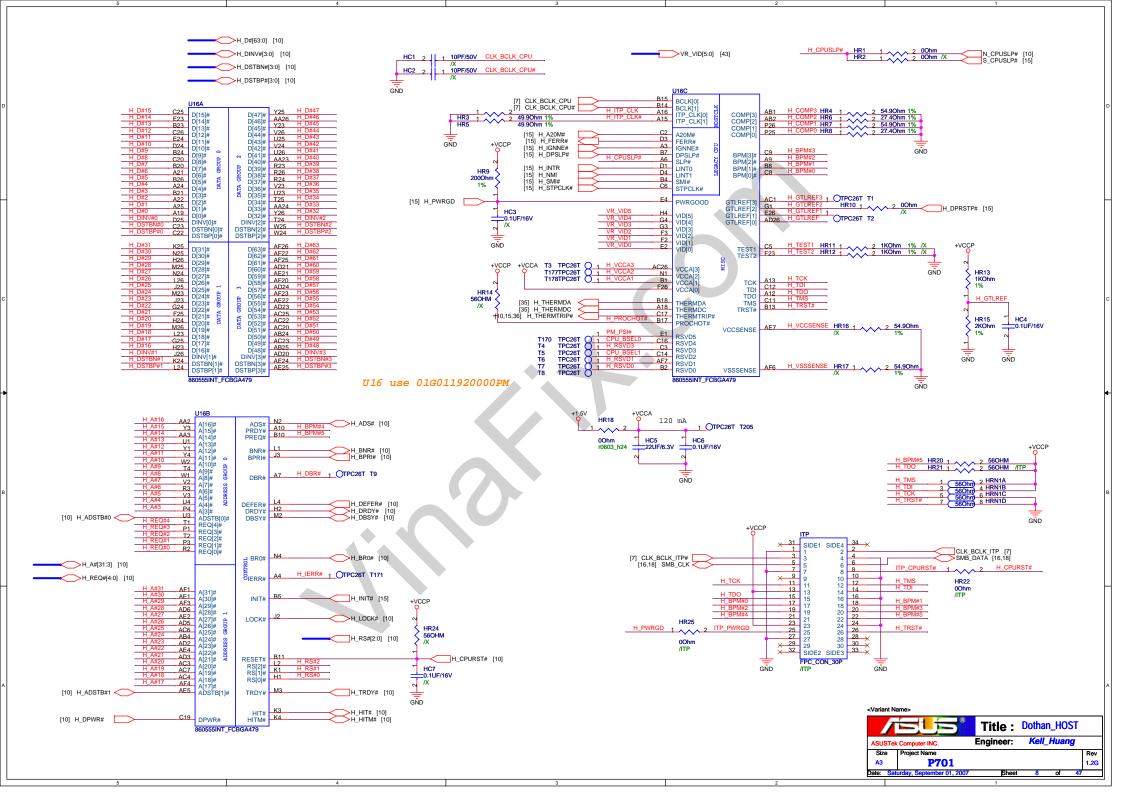
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1.0G	2007/02/26	S701L Schematic 1.0G Beginning
	2007/03/16	S701L 1.0G Gerber Out
1.1G	2007/03/24	S701L Schematic 1.1G Beginning
	{ 2007/04/19	S701L 1.1G Gerber Out
1.0G	2007/04/24	P701(S701L renamed) Schematic 1.0G Beginning 1. PC8054, PR6075 /X to N/A 2. Attansic L2 change to Atheros L2(pin to pin) 3. LC1, LC33 /CAP/X to N/A 4. C87 change to X5R to cost down 5. L1, L2, L3 change to 56 NH, R5, R6 change to 75 Ohm to pass CRT EA measure 6. PR48 change to 22K Ohm, PC35 change to 4700PF to fix no VCORE issue 7. PR6074 change to 4.7K Ohm to fix +3VSB OCP issue 8. Clock Gen CY28442-2 change to ICS9LPR367 9. Phase in Power Level Reduce solution, mark "Taipei0508" 10. Card Reader Socket change to SD Socket 12G25100091E 11. Add System FAN circuit 12. Camera change to USB port 7, Minicard change to USB port 5 13. Use SB GPIO27 to Enable/Disable Card Reader UB6225P 14. Use SB GPIO28 to Enable/Disable Modem 15. Card Reader UB6225P share 48M clock from CLock Gen with SB USB part 16. Add D29 to fix LCD_CSB leakage current issue 17. LC29, LC30 change to 27PF to pass EA crystal measure 18. Change vaule of PR73, PR74, PC56 and add PC60 to adjust the power sequence timing between Stand By power and RSMRST# 19. Remove USB port 1 20. Add +5V generate +3V_LCD circuit 21. Remove +5V_CHG generate circuit 22. Use SB GPIO33, GPIO34 to controll the level of VCORE 23. U31 use APL5315BI-TRL to replace MAX8863TEUK(pin to pin, but reference voltage leve different)
	2007/05/22	24. PR59 change to 130K Ohm for both 12V Adapter and 9.8V Adapter P701 1.0G Gerber Out
1.1G	2007/05/31	P701 Schematic 1.1G Beginning 1. Remove the 48M clock from CLock Gen to Card Reader UB6225P 2. Clock Gen ICS9LPR367 change to ICS9LPR426 3. Flash Connector increase SATA and USB interface 4. Add Onboard Flash(SM223 + NAND Flash x4) 5. BATT_CON pin 5 connect to GND 6. Q34 pin 1 connect to +3V to fix EC reset issue 7. Remove J1, J2 8. KB pin 28 connect to GND for P701-ISP_CARD 9. Use SB GPO23 to Enable/Disable Audio Amplifier 10. Use SB GPO21 to controll Camera Power 11. Use SB GPIO24 to controll Minicard Power 12. Use SB GPIO25 to Enable/Disable WLAN Ratio 13. Atheros L2 and Minicard SMBUS interface directly pull high 14. LCD_CON pin 20 connect to AC_BAT_SYS
	2007/06/07	P701 1.1G Gerber Out

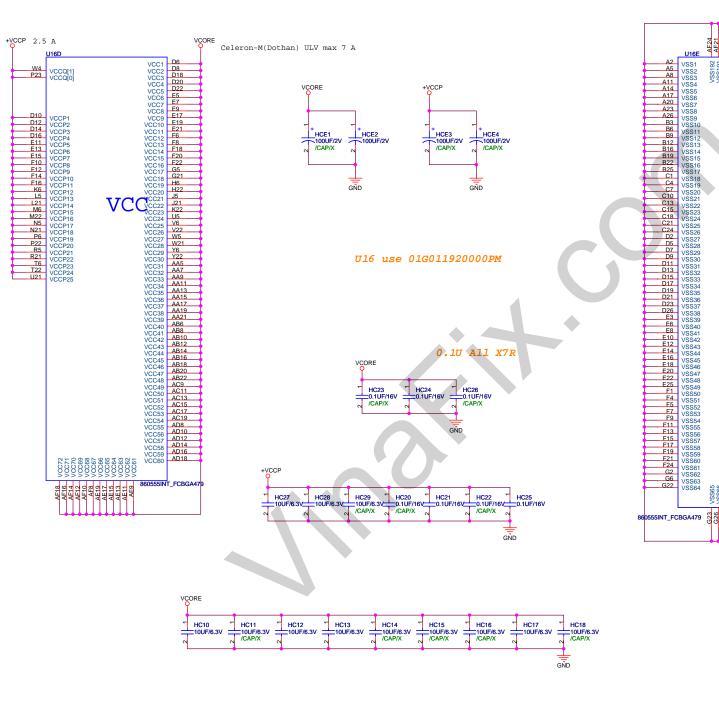
Rev	Date	Description
1.2G	2007/06/30	P701 Schematic 1.2G Beginning 1. Add R174 to short DASP pins of Master IDE device and SLave IDE device 2. Use SB GPIO27 to controll Card Reader UB6225P Power 3. PR606084.2 connect to +5V to fix LCD flash issue 4. Adjust SPEAKER pin define 5. Adjust CHARGE LED and WLAN LED lightness 6. Use SB GPI 26, 29, 30, 31 for PCB version 7. Change USB ESD diode for EMI request 8. Add Floating GND TP_GND and Spring TP1 & TP2 for EMI request 9. Change PM_VCOREL1, PM_VCOREL2 default level 10. Add PQ48 to controll +3V_PE to fix WLAN AW-GE780 can't detect issue 11. Power Charger part update circuit for new Adapter 12. Use SB GPI12 to detect LID signal level 13. Add H/W THERMTRIP circuit (page 36) 14. Add U40 to prevent system auto power on after clear CMOS 15. Use SB GPI7 for THRO_CPU 16. Power Charger part update circuit to prevent incorrect Adapter damage boards 17. Q1.1, Q2.1 change to +3V P701 1.2G Gerber Out
1.2G	2007/07/26	P701 Schematic 1.3G Beginning 1. Add R11 for 801

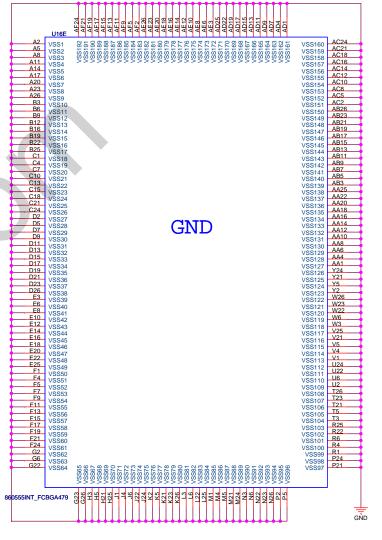


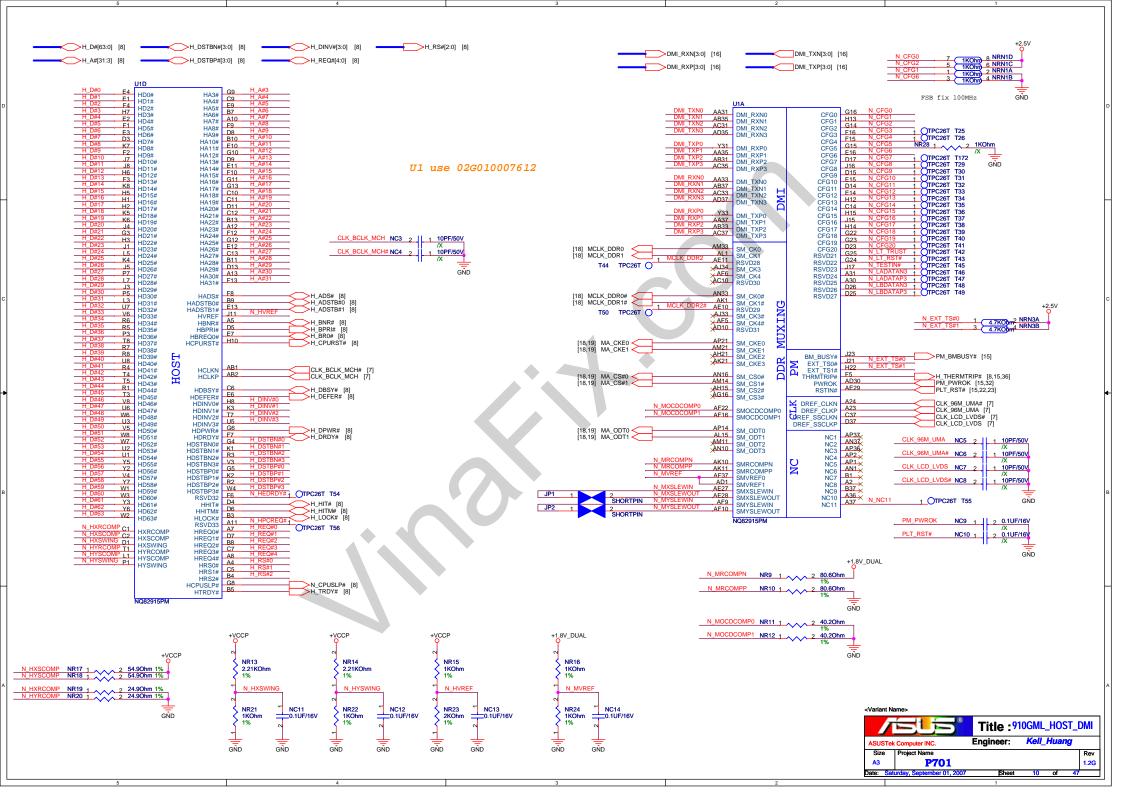


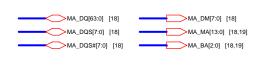




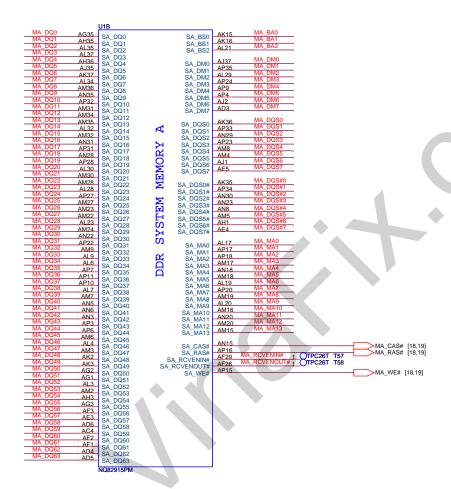






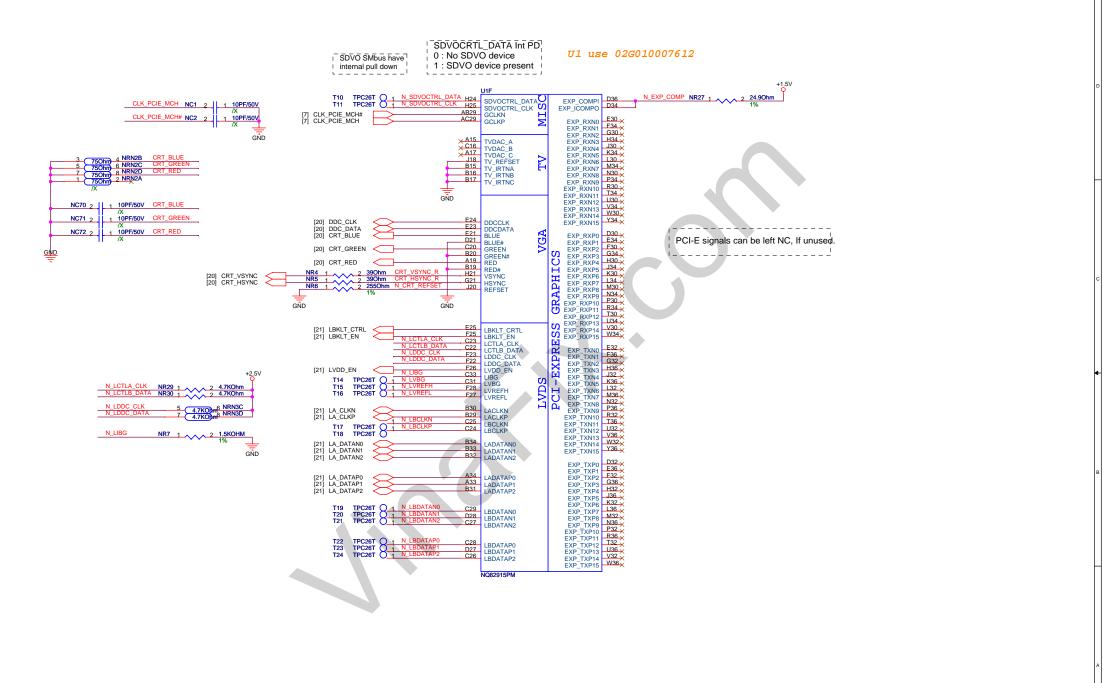


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AE31 SB_DQ0 SB_DQ1 SB_DQ2 SB_BS0 SB_BS1 AG17 AG36 AG21 AE34 AE33 AE31 SR DO3 SB_BS2 SB_DQ4 SB_DM0 SB_DM1 SB_DM2 SB_DM3 SB_DM4 SB_DM4 SB_DM5 SB_DM6 SB_DM6 SB_DM6 SB_DM7 AF32 SB_DQ5 SB_DQ6 AF30 AH33 AH32 AK31 SB_DQ7 SB_DQ8 SB_DQ9 SB_DQ10 AG30 AG34 AG33 AH31 AJ31 AK30 SB_DQ11 SB_DQ12 SB_DQ13 SB_DQS0 SB_DQS1 SB_DQS2 SB_DQS2 SB_DQS3 AK23 AK23 AK23 AM10 SB_DQ14 SB_DQ15 AK30 SB_D016
AJ30 SB_D017
AH29 SB_D017
AH28 SB_D018
AK29 SB_D021
AH27 SB_D022
AG28 SB_D023
AF24 SB_D023
AF24 SB_D024
AG28 SB_D025
AK29 SB_D026
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AK29 SB_D027 SB_DQ16 SB_DQ17 SB_DQS3 SB_DQS4 SB_DQS5 SB_DQS5 SB_DQS6 SB_DQS7 MEMORY SB_DQS0# AK33 SB_DQS1# AK28 SB_DQS2# AL23 SB_DQS4# AL23 SB_DQS2# AJ23 SB_DQS3# AJ23 SB_DQS5# AL10 SB_DQS5# AH7 SB_DQS6# SB_DQS7# AB5 SB_DQ25 SB_DQ26 SB_DQ27 SB_DQ28 SB_DQ29 SB_DQ30 SB_DQ31 SB_DQ33 SB_DQ33 SB_DQ34 SB_DQ35 SB_DQ35 SB_DQ35 AH24 AH23 AG22 AJ21 AG10 SYSTEM SB_D057#

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SB_MA1
SB_MA2
SB_MA2
SB_MA3
SB_MA4
SB_MA5
SB_MA6
SB_MA6
SB_MA6
SB_MA7
AJ20,
AJ20,
AJ40,
AJ4 *AG9 *AG8 *AH8 *AH11 *AH10 *AJ9 *AK9 DDR SB_DQ37 SB_DQ38 SB_DQ39 SB_DQ40 × AJ7 × AK6 SB_DQ41 SB_DQ42 AJ4 AH5 AK8 AJ8 AJ5 AK4 AG5 AG4 AD8 AD9 AH4 SB_DQ43 SB_DQ43 SB_DQ44 SB_DQ45 SB_DQ46 SB_DQ47 SB_CAS# SB_RAS# SB_RCVENIN# SB_RCVENOUT# SB_WE# SB_DQ48 SB_DQ49 SB_DQ50 SB_DQ51 SB_DQ52 SB_DQ53 *A14 SB_DQ52
*A66 SB_DQ53
*AE8 SB_DQ53
*AC8 SB_DQ56
*AC5 SB_DQ56
*AA68 SB_DQ56
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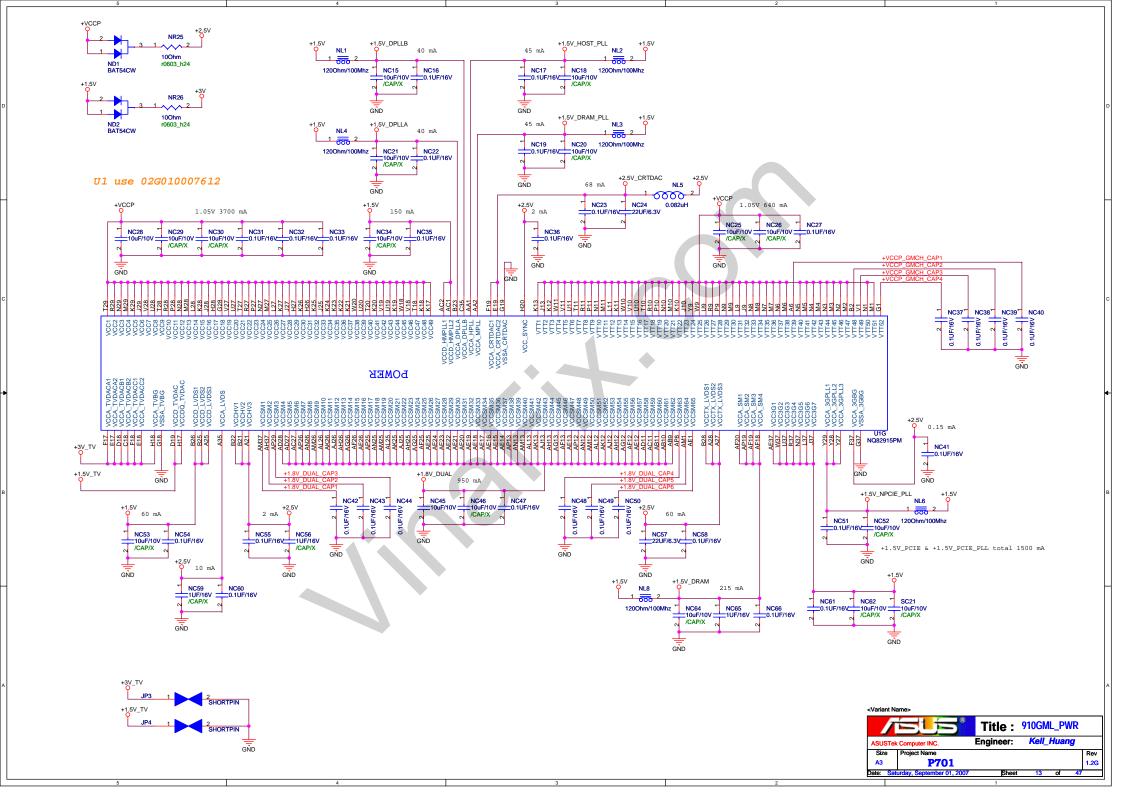


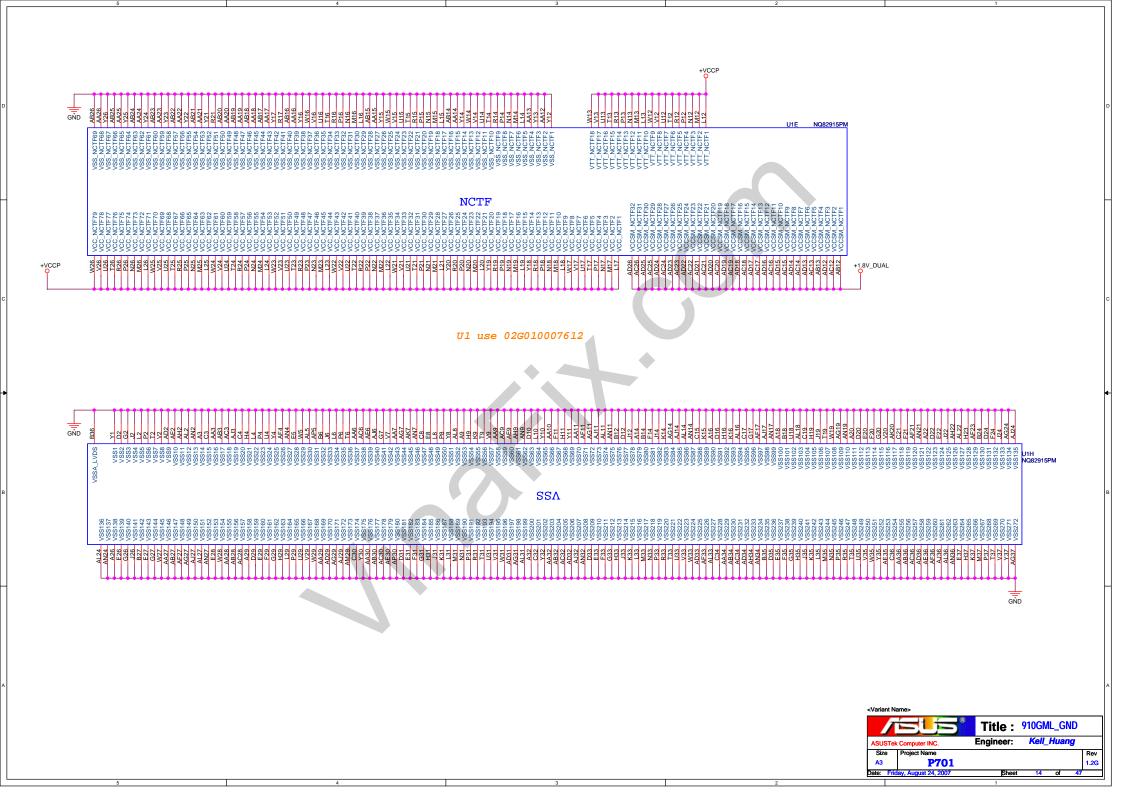
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 Engineer:
 Kell_Huang

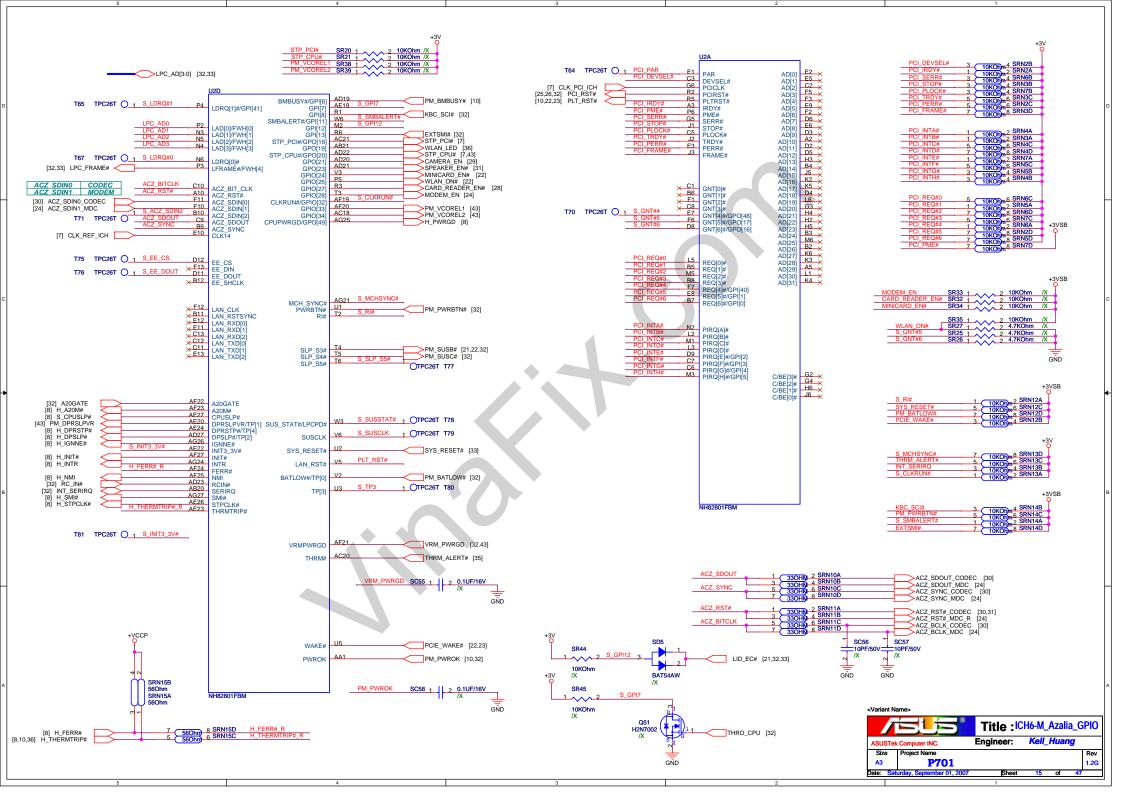
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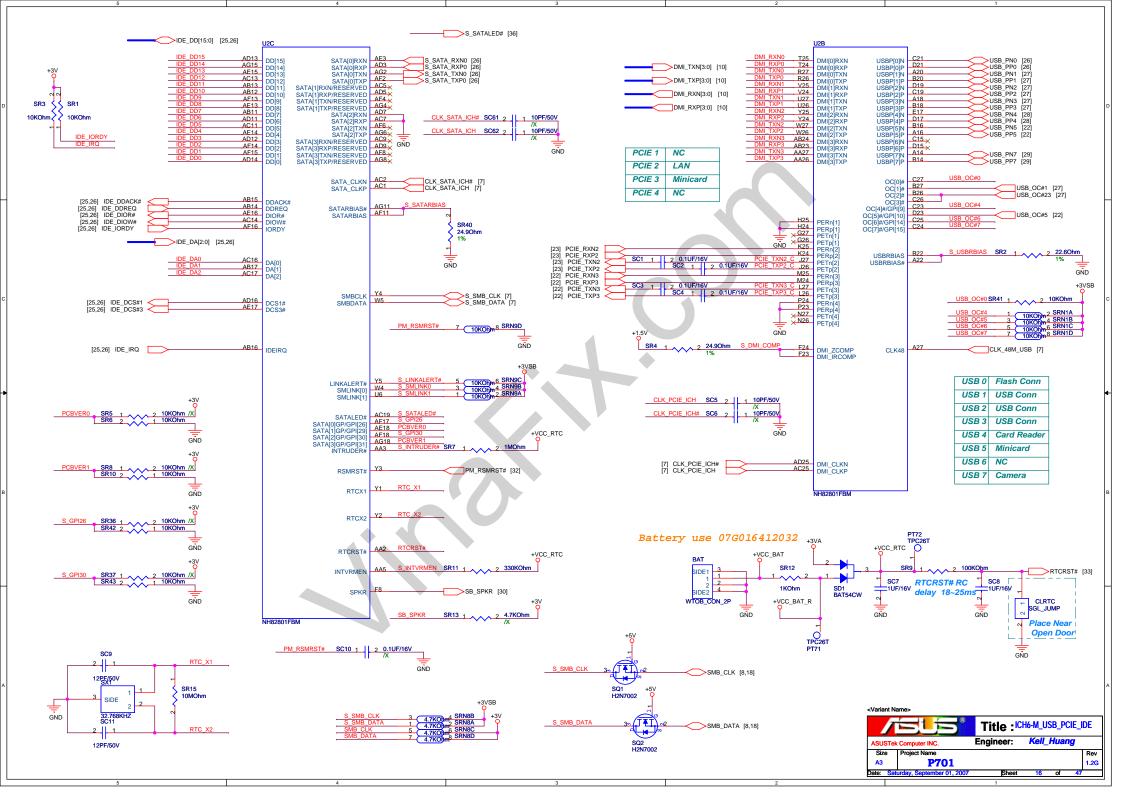
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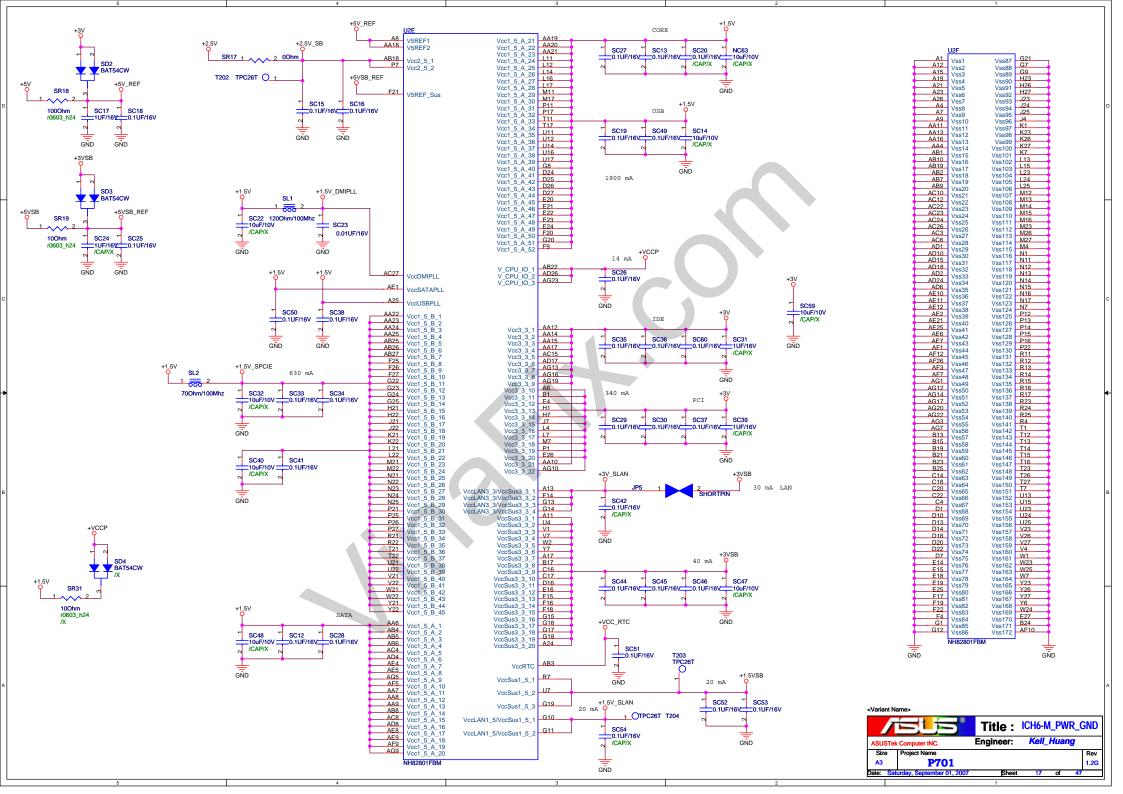
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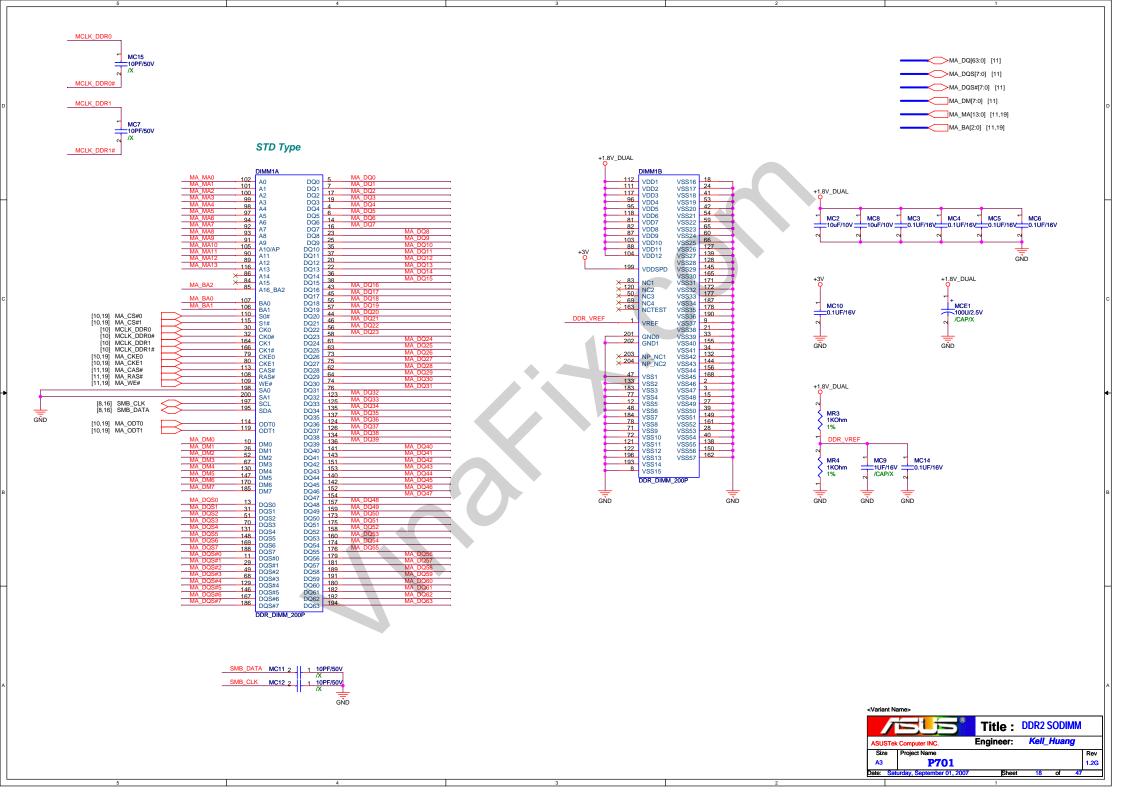


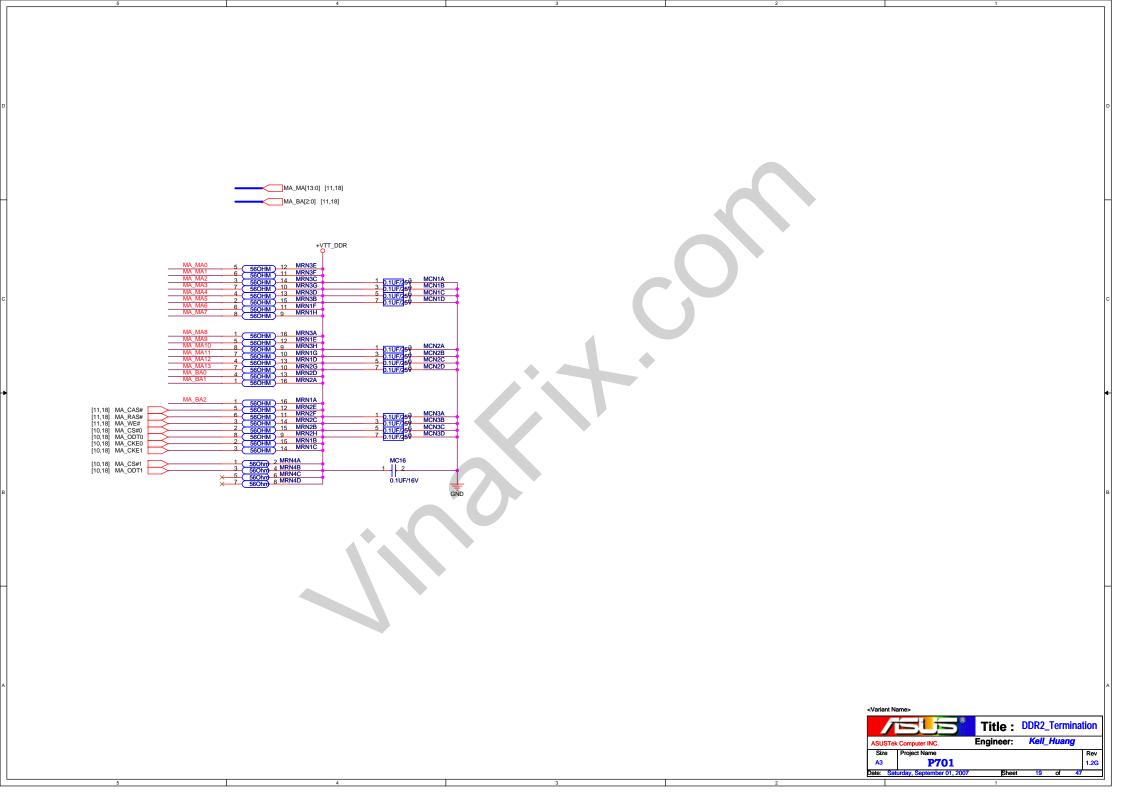


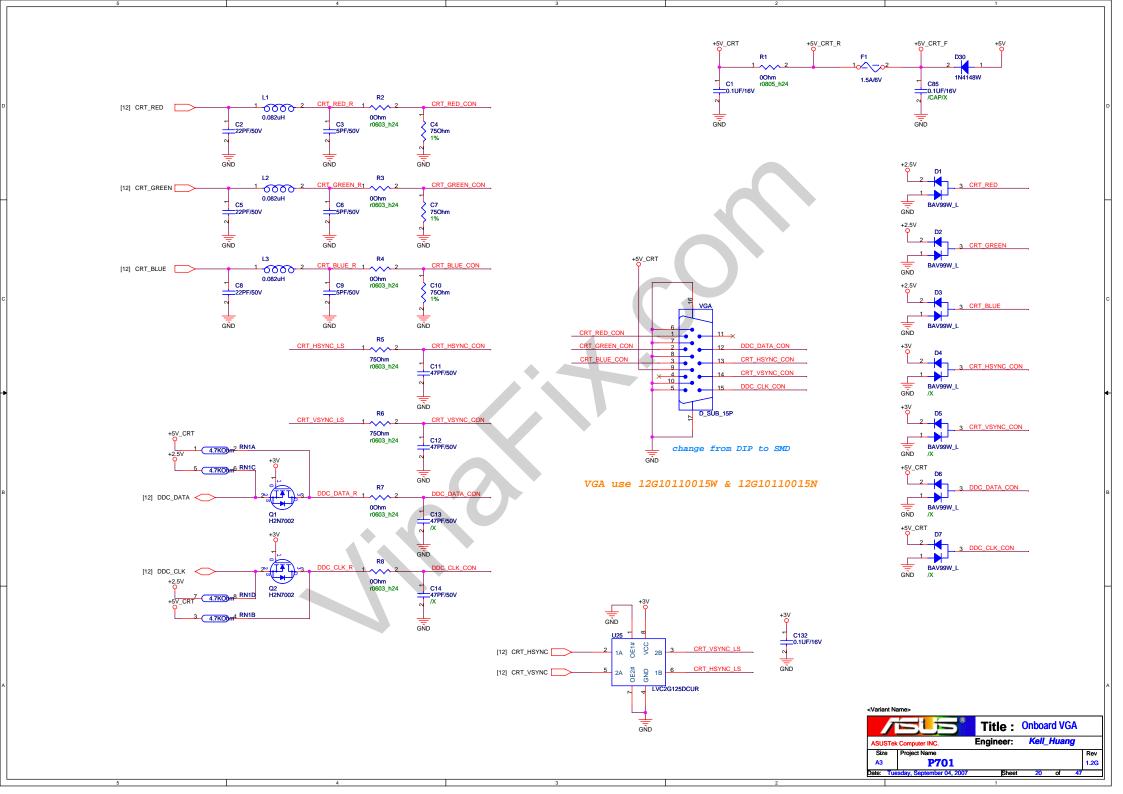


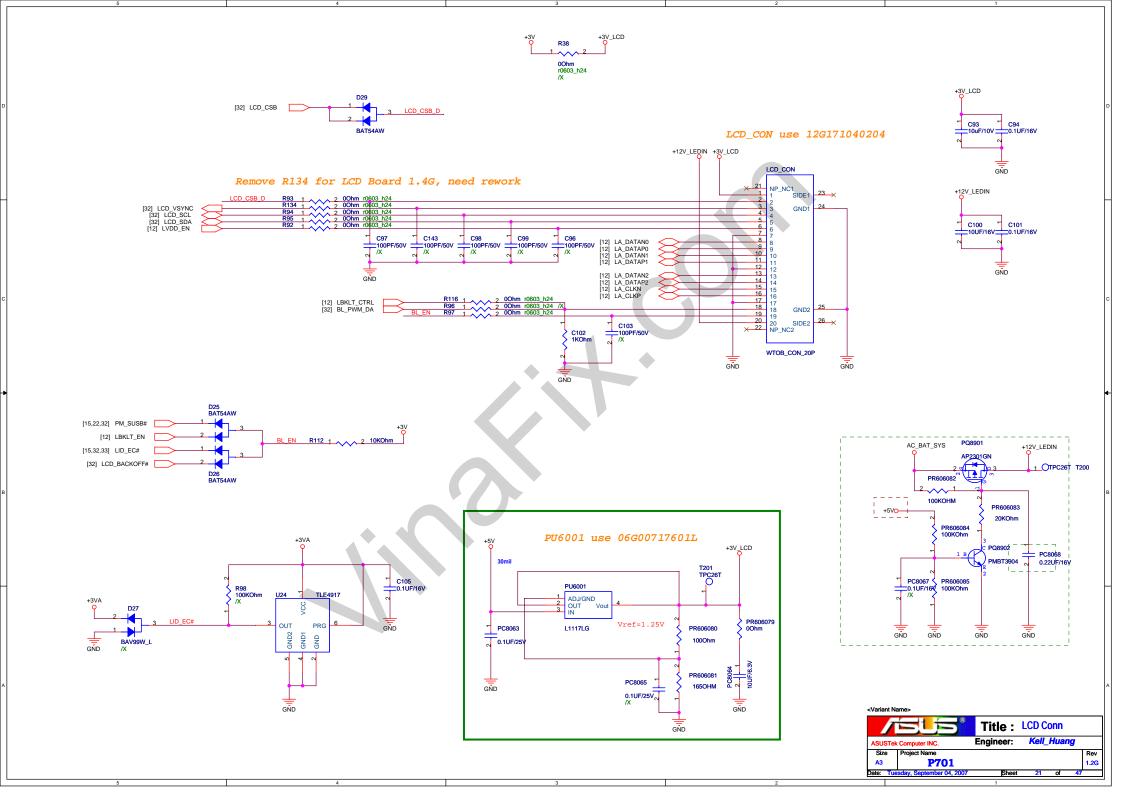


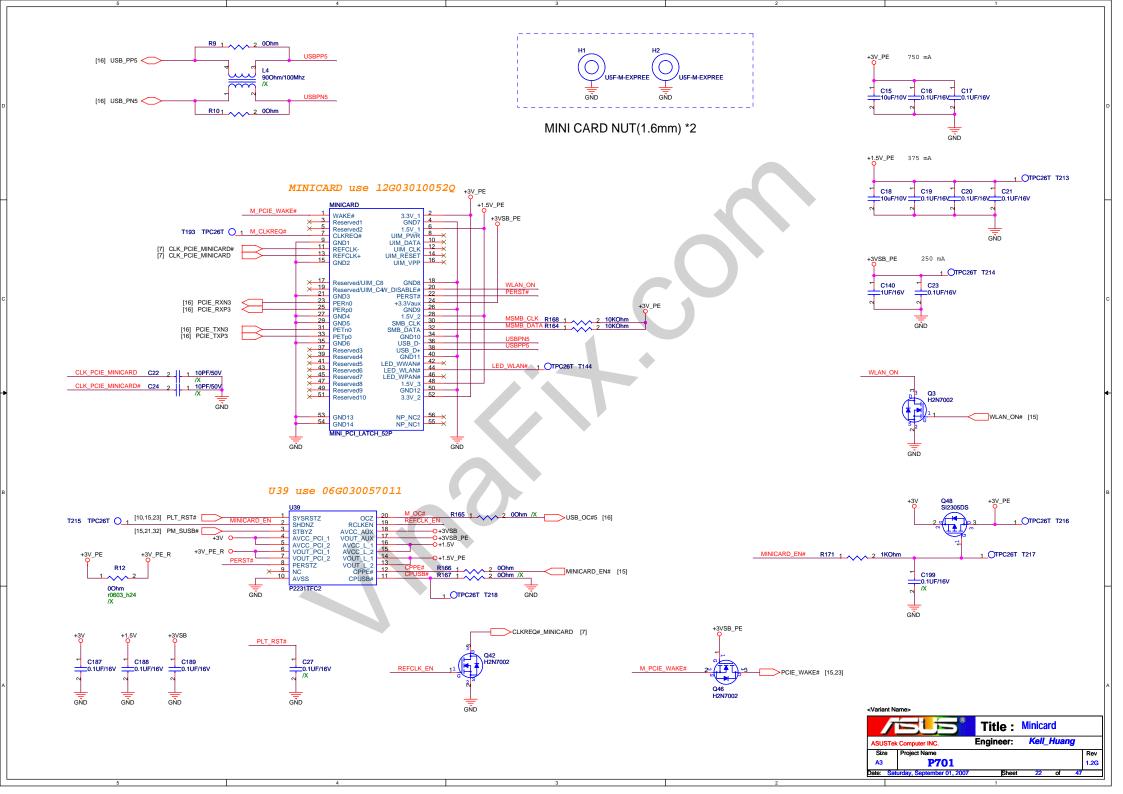


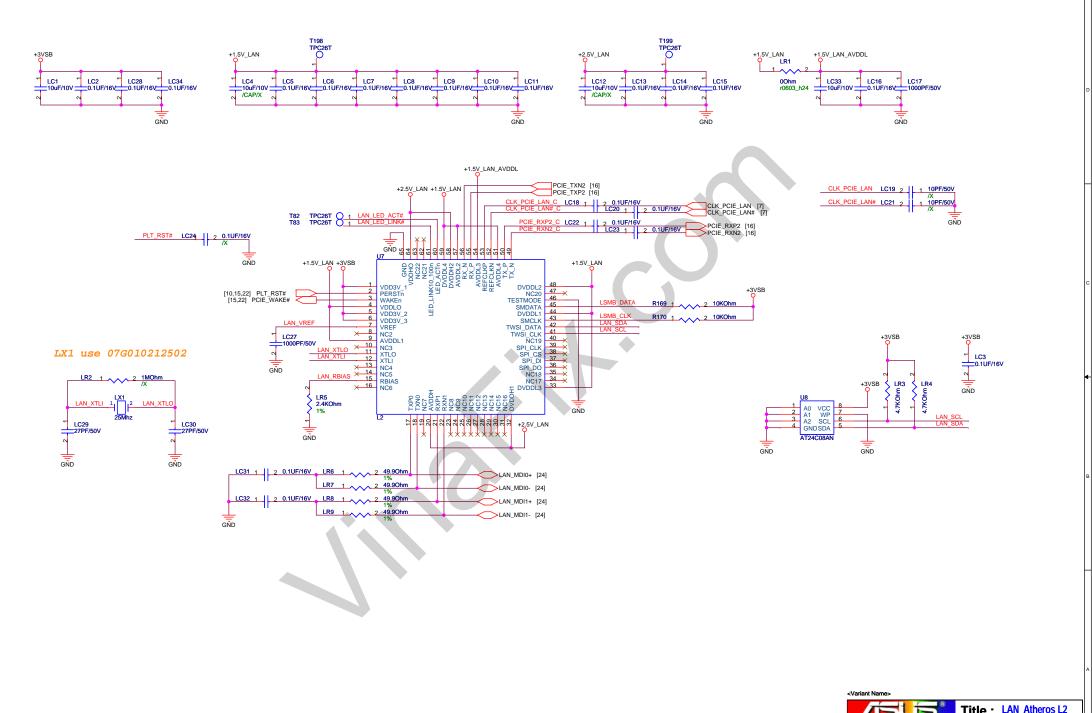




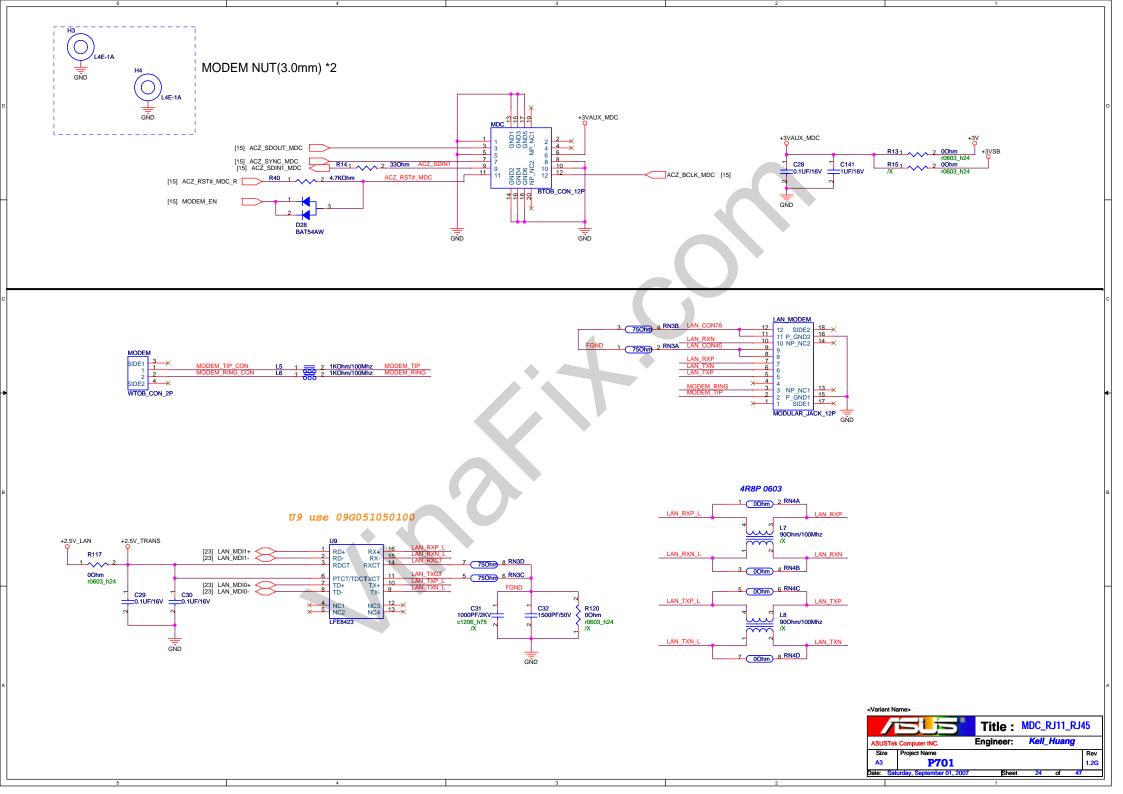


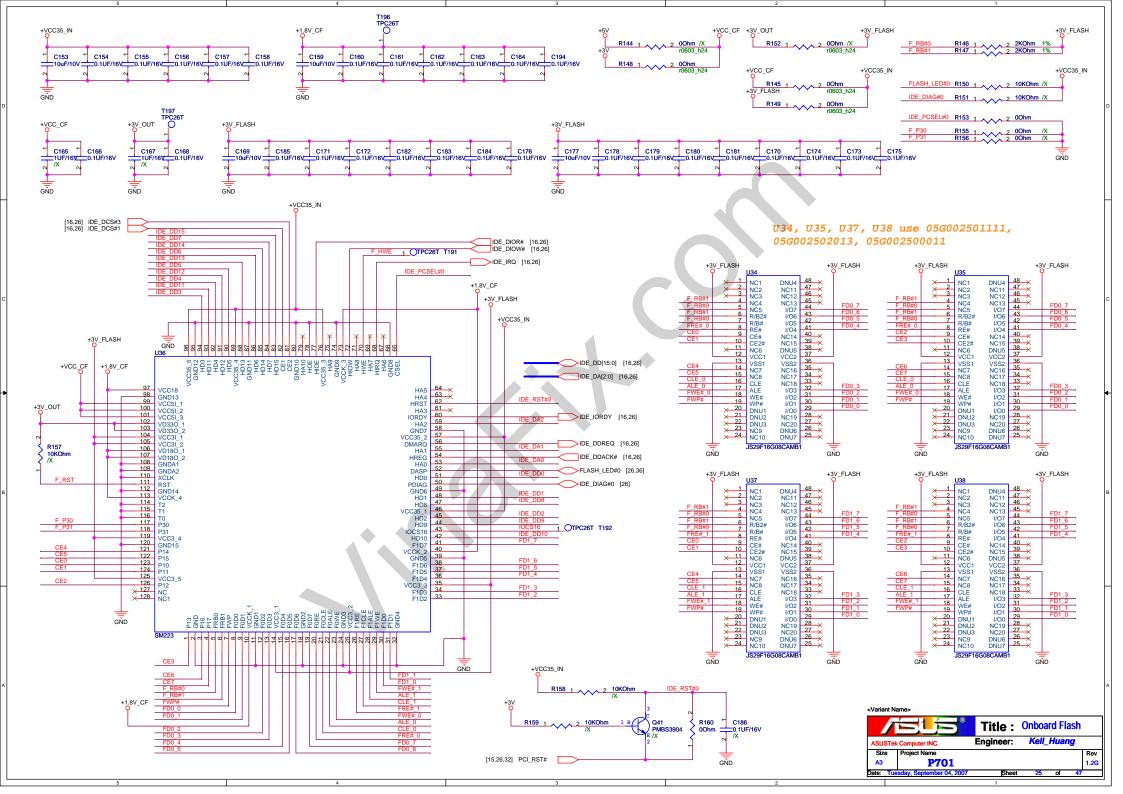


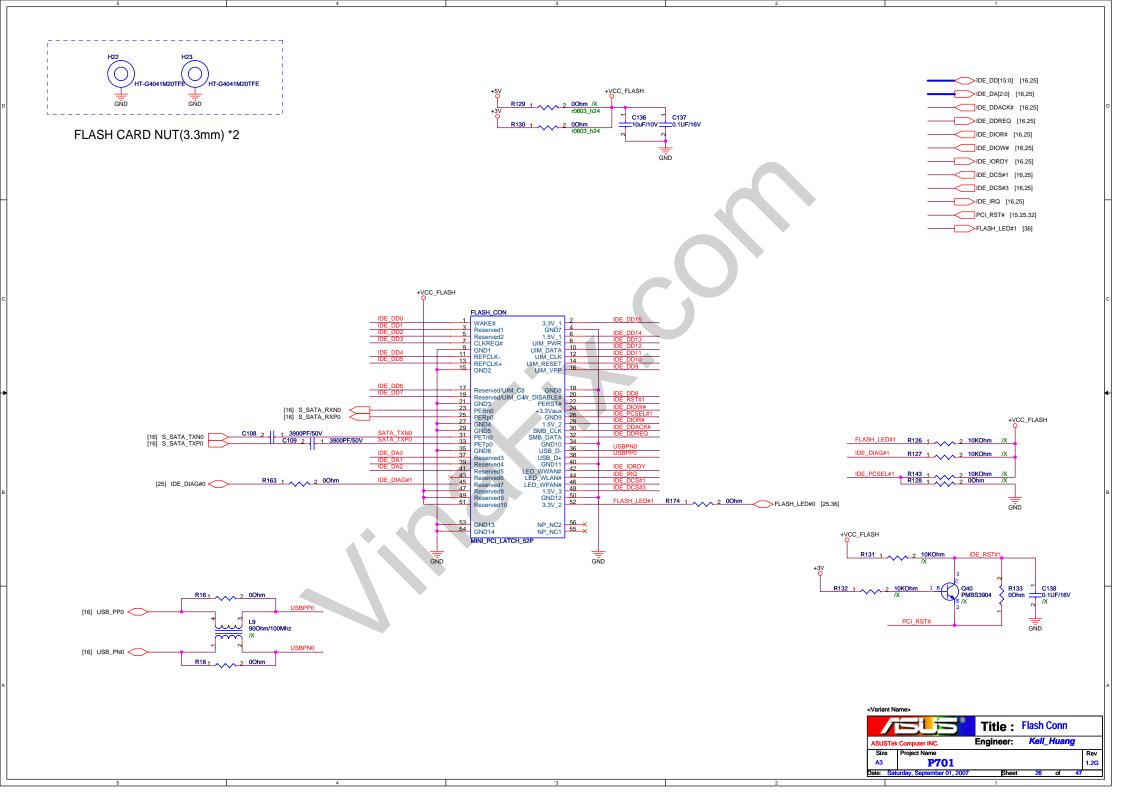


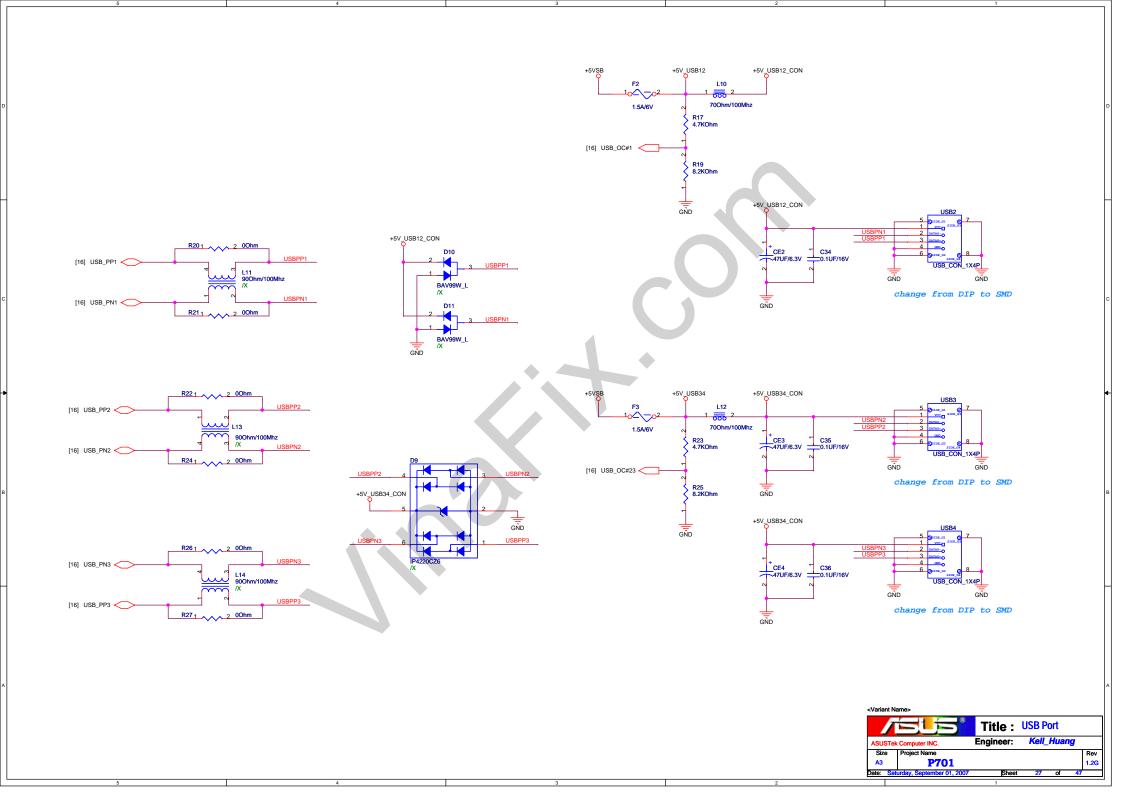


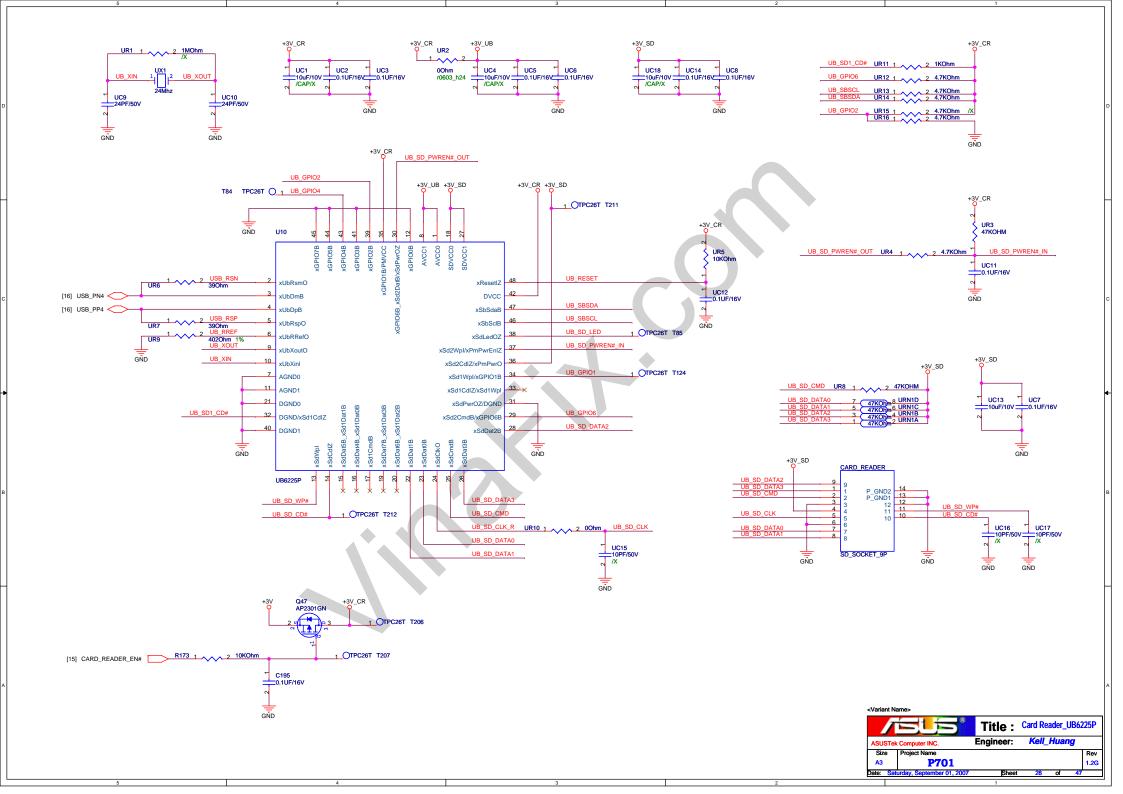
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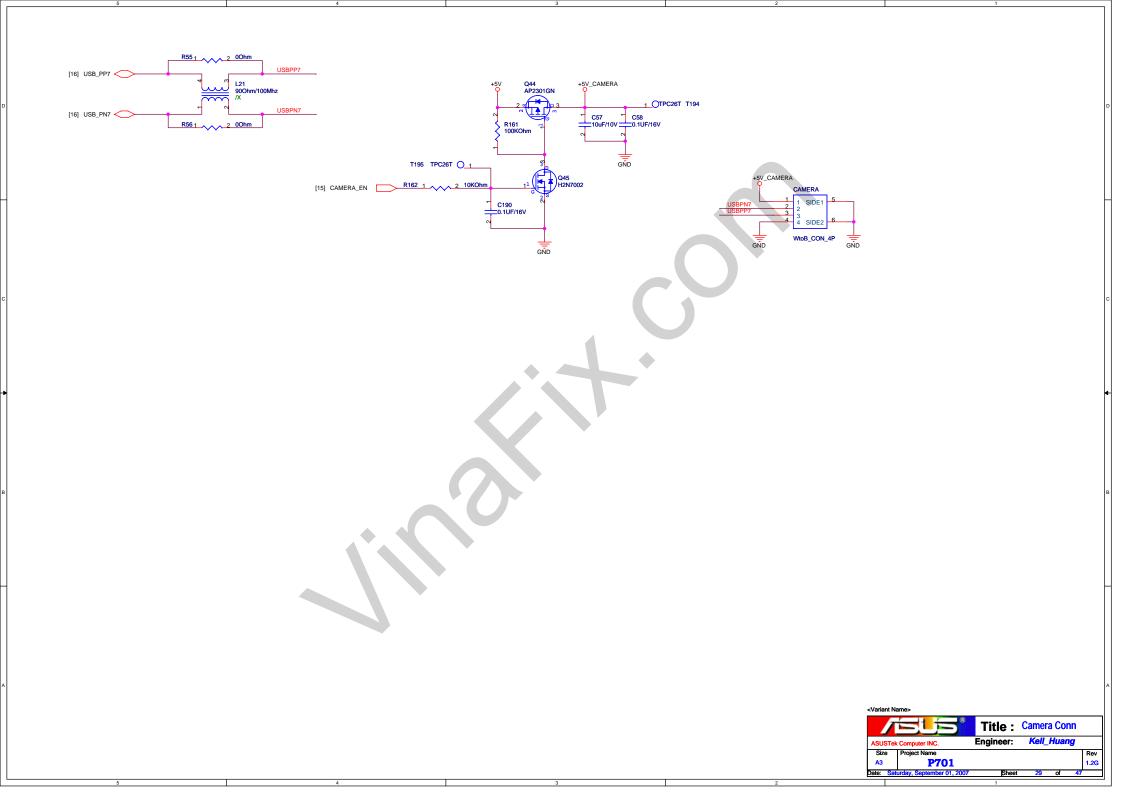


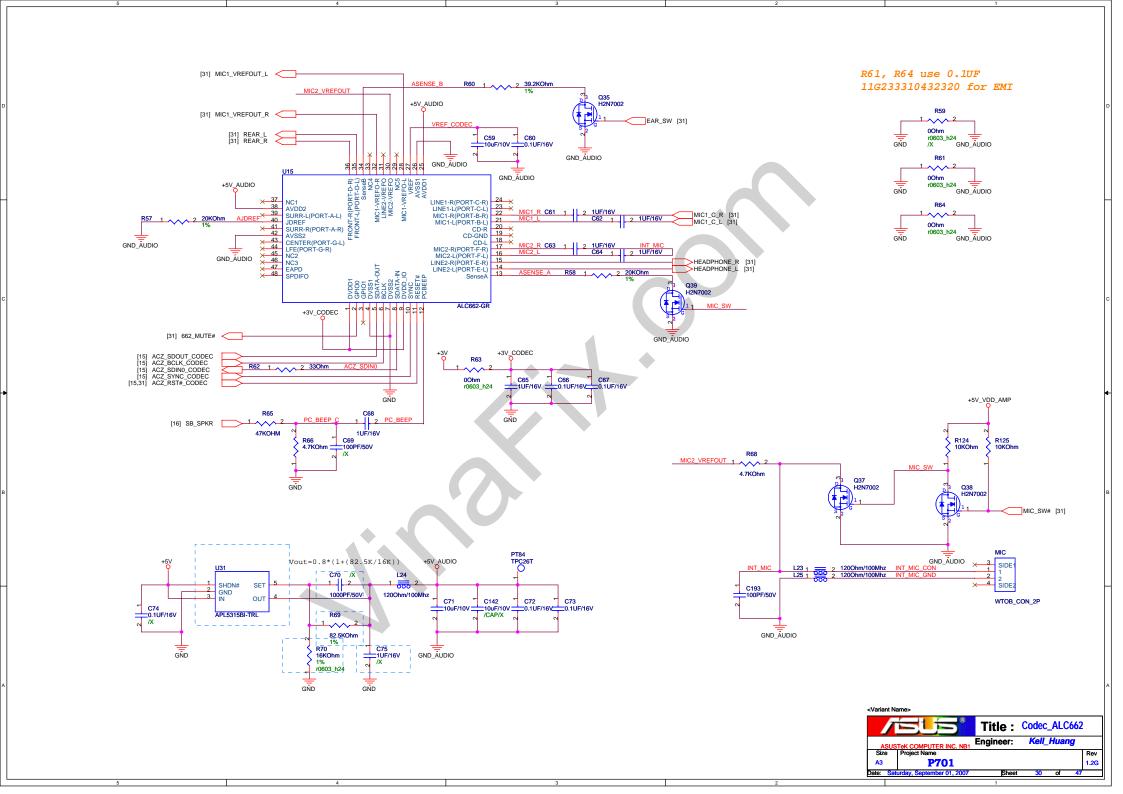


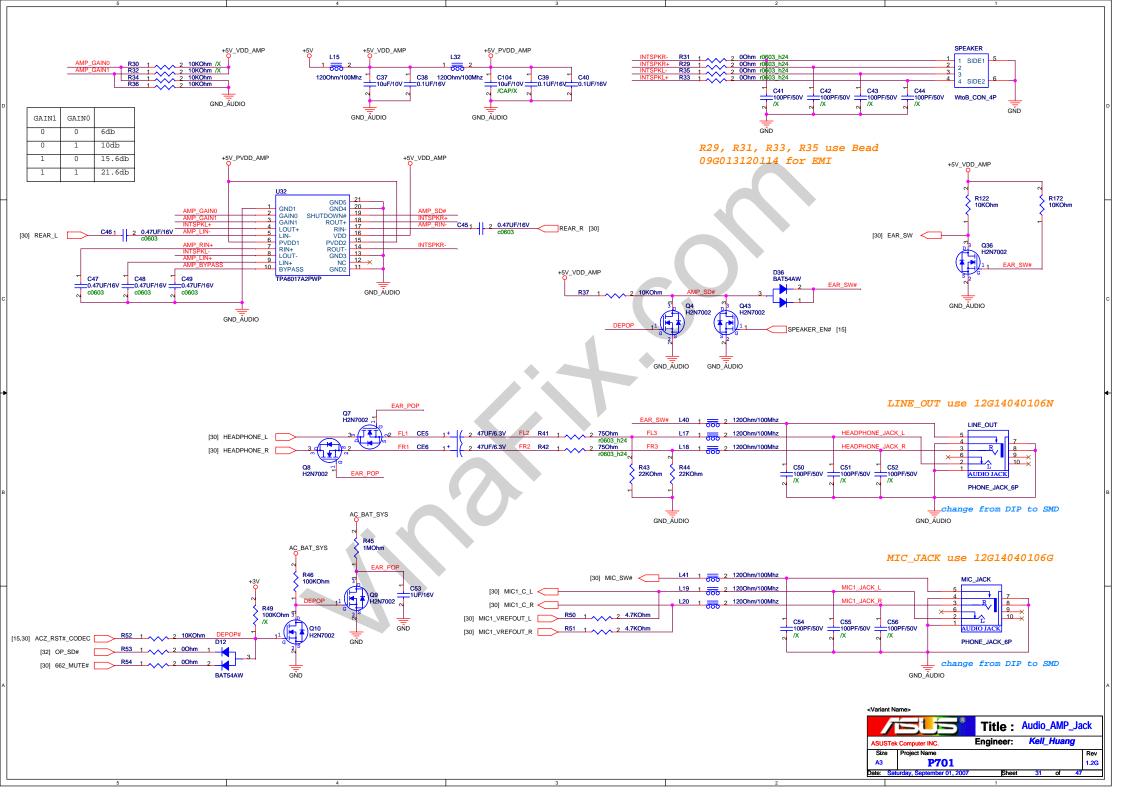


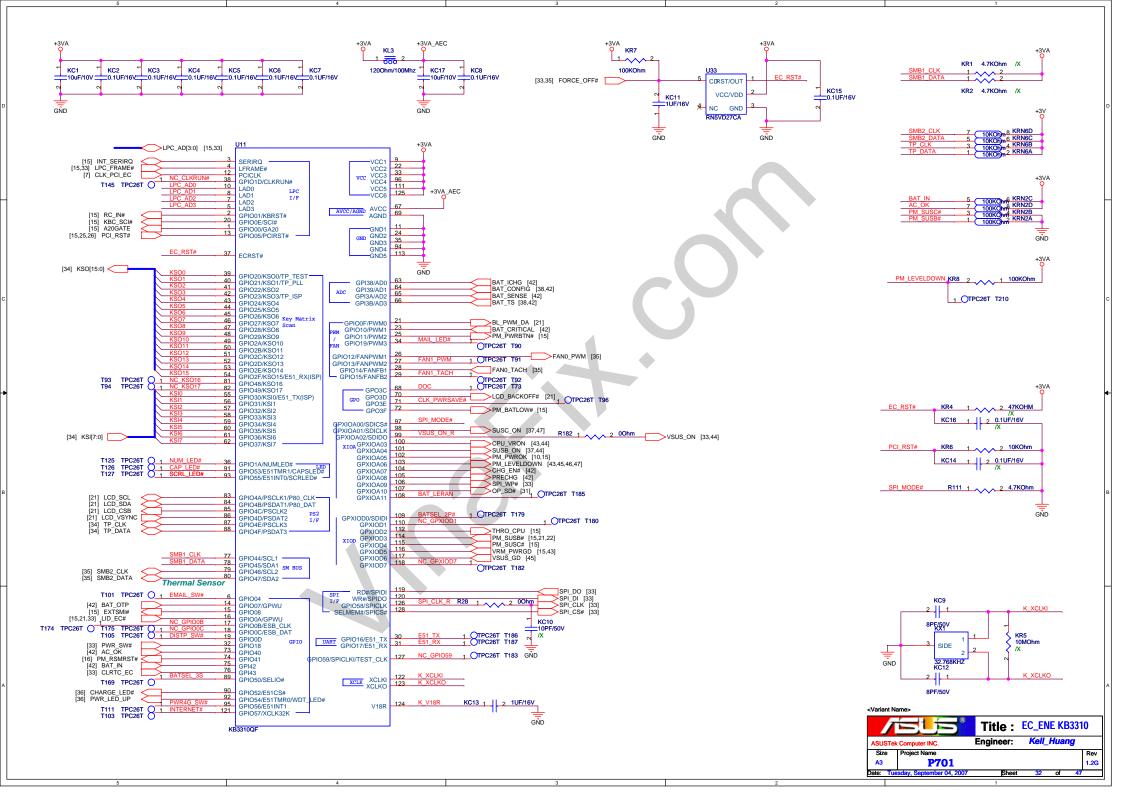


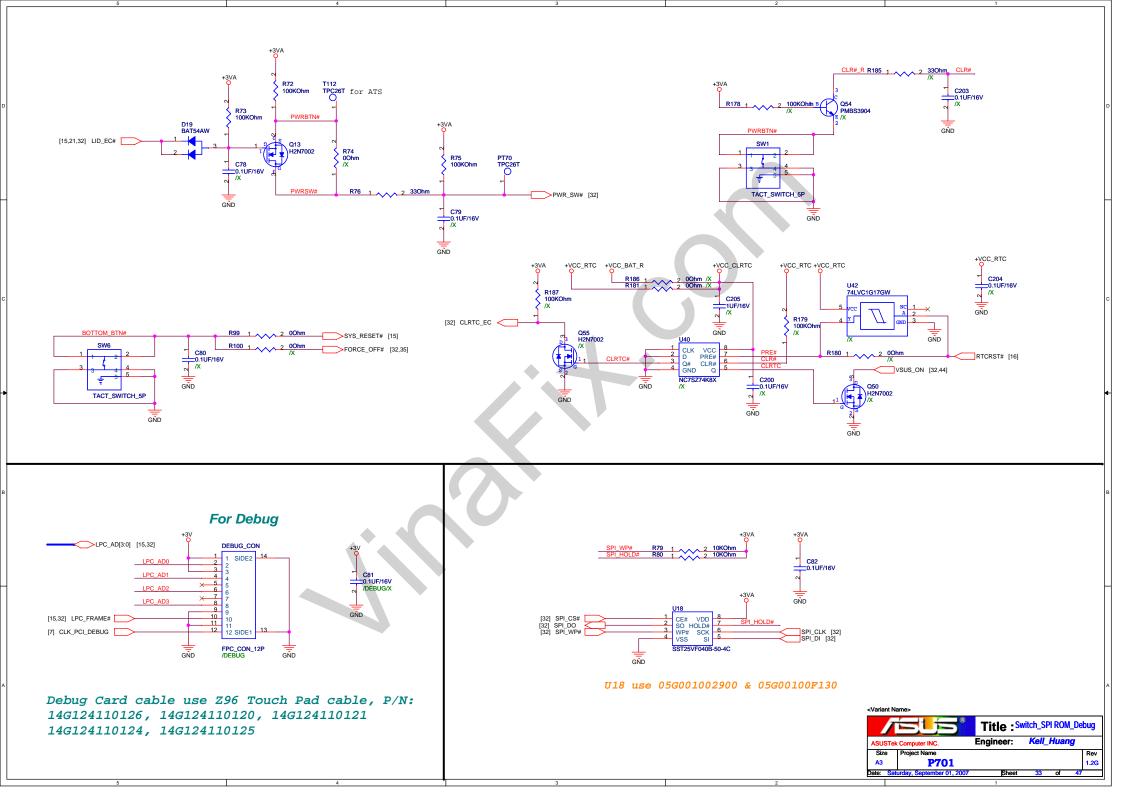




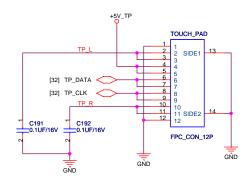




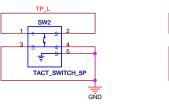


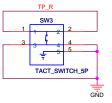


For Touch-Pad



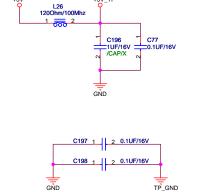
SW2, SW3 use 12G09103305N



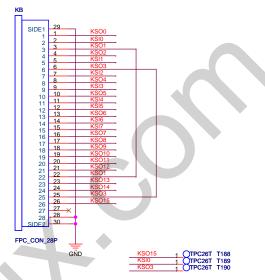


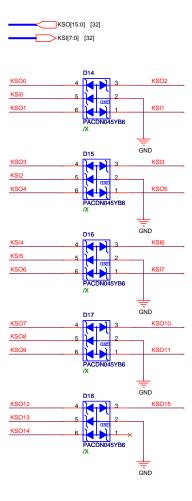
SPRING_PAD

TP_GND

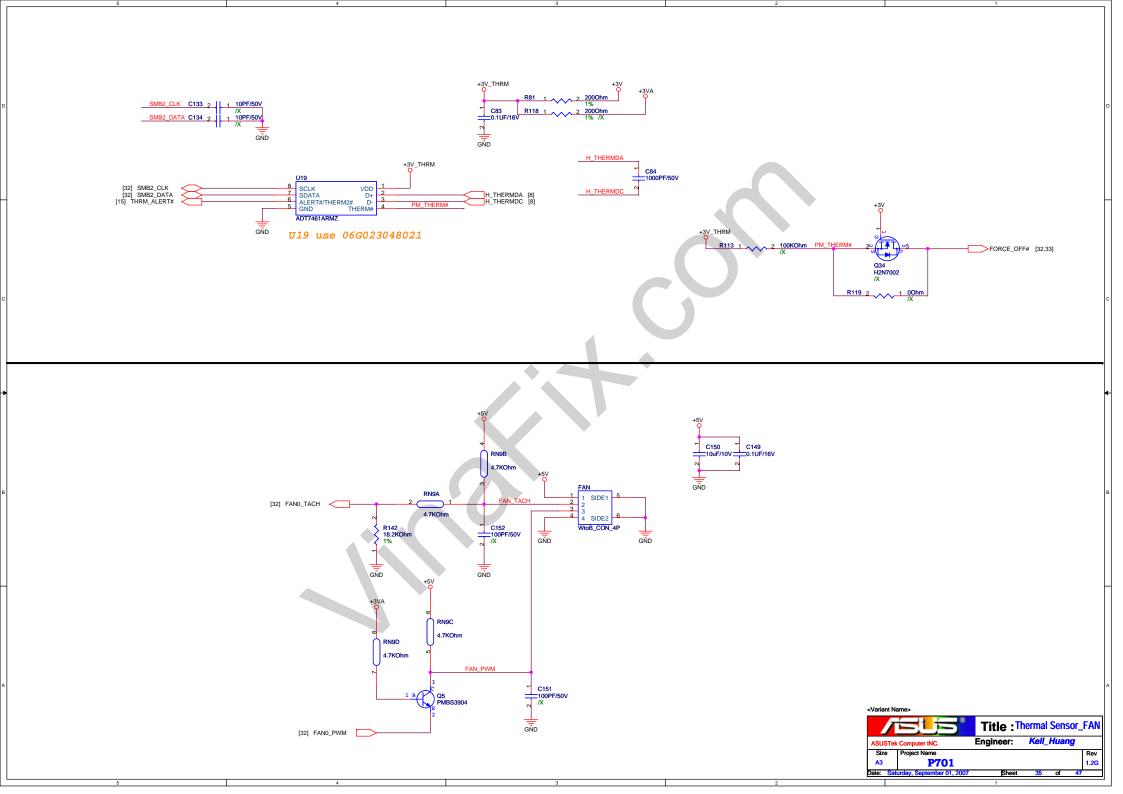


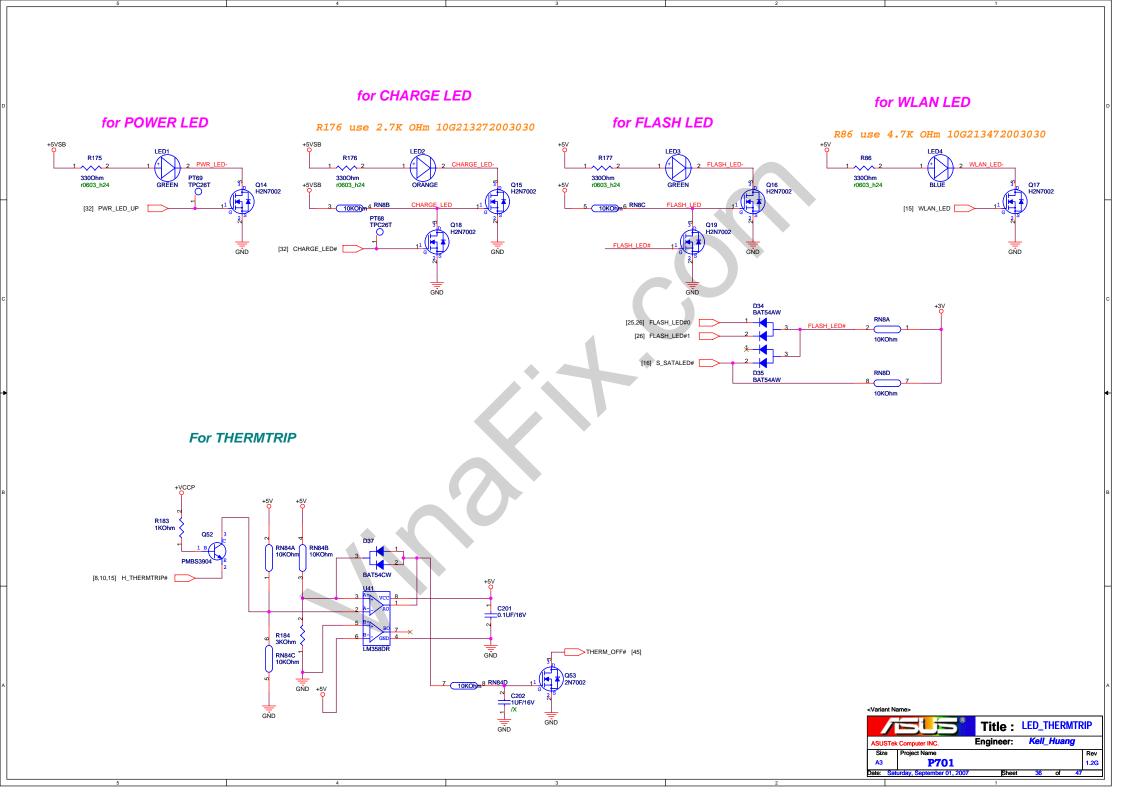
For Keyboard

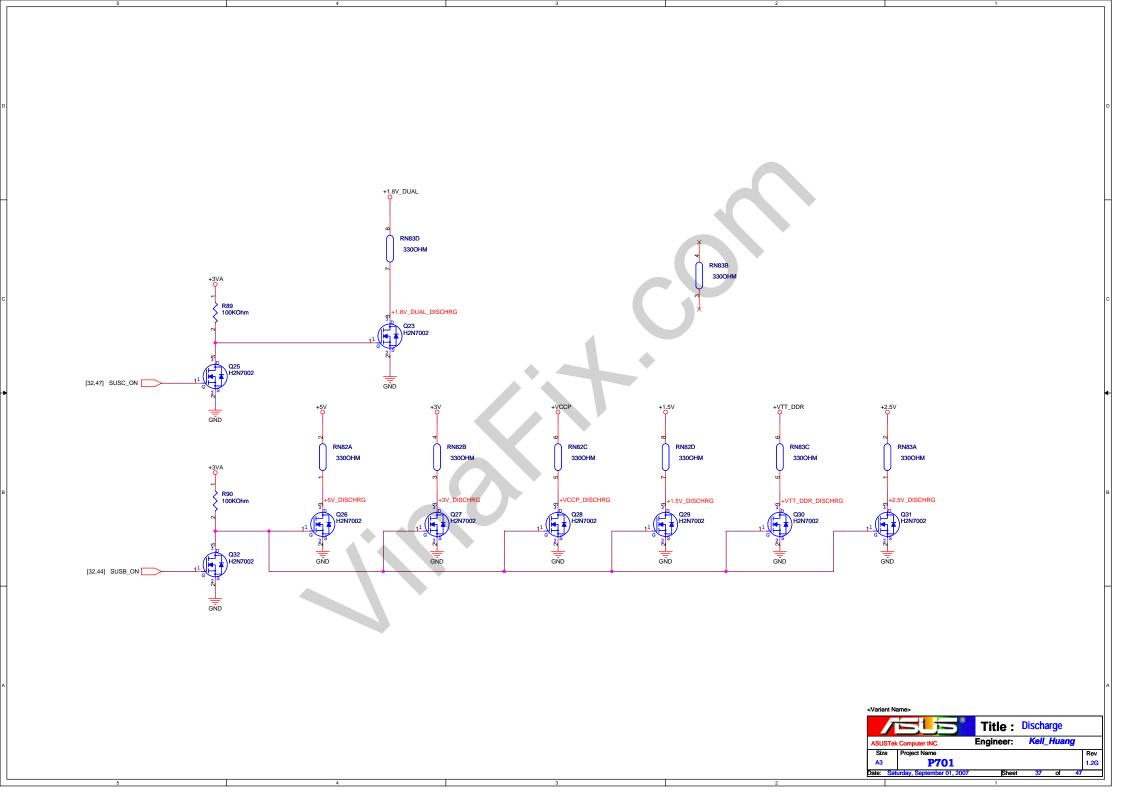


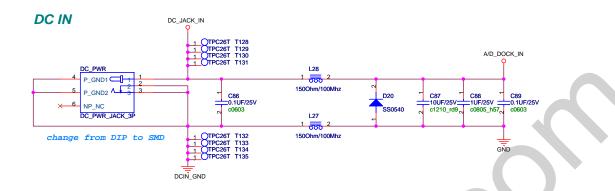




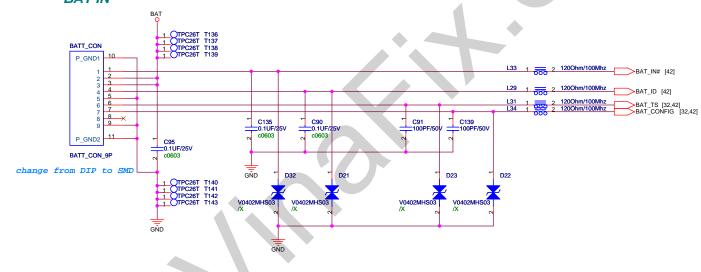








BAT IN



<Variant Name>

		Title :	PWR Jack	
ASUS	STek Computer INC.	Engineer:	Kell_Huang	
Size	e Project Name			Rev
A3	P701			1.2G
Date:	Saturday, September 01, 2007	Sheet	38 of -	47
		4		

