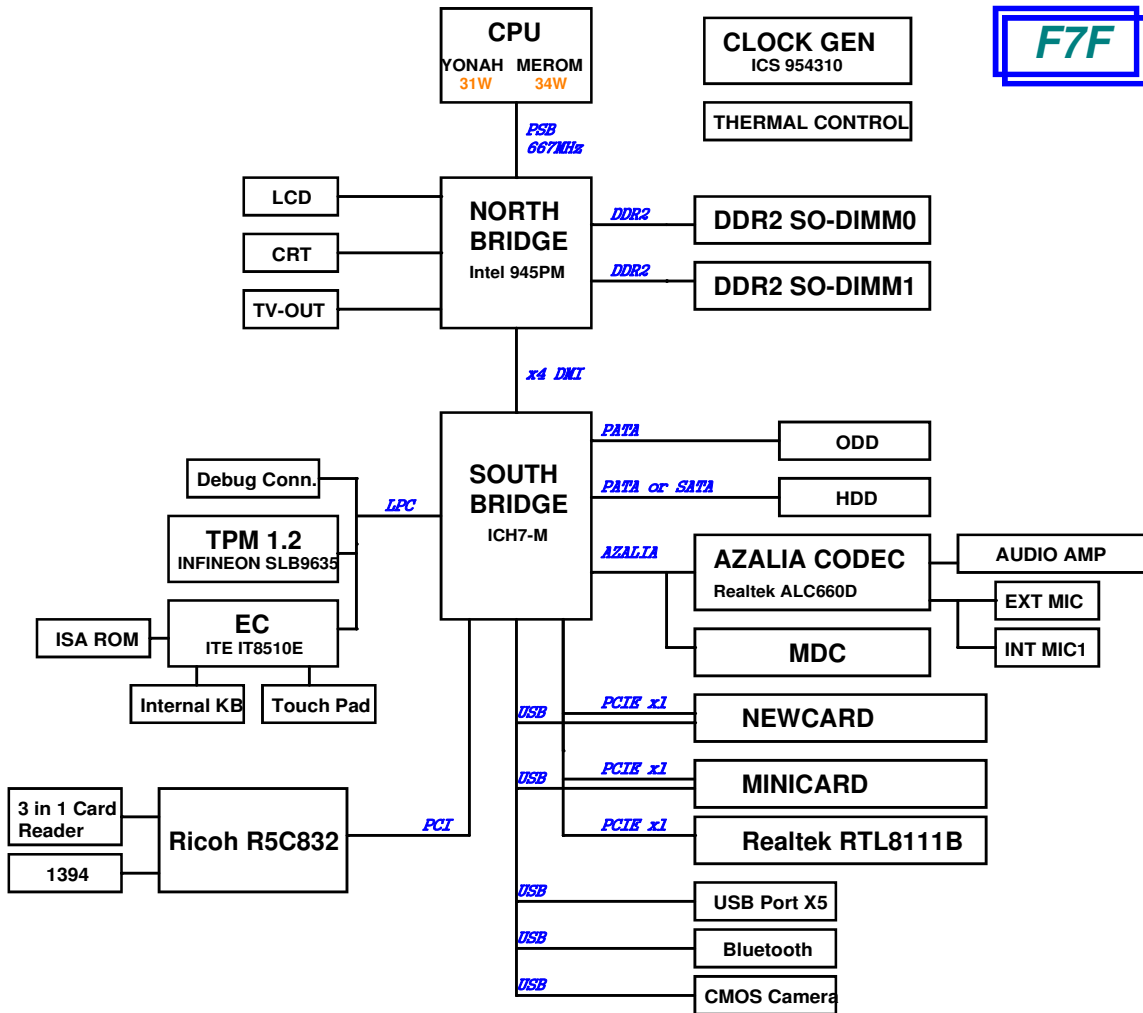


01_Block Diagram
02_System Setting
04_CPU-YONAH (HOST)
05_CPU-YONAH (PWR)
07_NB-945GM (HOST)
08_NB-945GM (DMI & CFG)
09_NB-945GM (GRAPHIC)
10_NB-945GM (DDR2)
11_NB-945GM (PWR)
12_NB-945GM (PWR2)
13_NB-945GM (GND)
15_SB-ICH7M (1)
16_SB-ICH7M (2)
17_SB-ICH7M (3)
18_SB-ICH7M (PWR)
20_DDR2 SO-DIMM0
21_DDR2 SO-DIMM1
22_DDR2 TERMINATION
24_MINI PCI CARD
28_CRT
29_LVDS & INVERTER CONNECTOR
31_TV OUT
33_THER SENSOR & FAN
35_CLOCK GEN-ICS954310
37_Power on & Reset Freq.
38_DISCHARGE
40_LAN-RTL8111B
41_MDC & RJ45+11
43_MINI CARD
45_CARD1394-R5C832 (1)
46_CARD1394-R5C832 (2)
47_4 in 1 CARD READER
48_NEWCARD
52_CODEC-ALC660
53_AUDIO AMP & JCAK
55_EC-IT8510E
56_Touch Pad & KB
58_USB CONN
60_ISA ROM
62_LED
64_DC & BAT IN
66_Debug CONN.
68_HDD & ODD
70_SREW HOLE
72_TPM
76_BT
78_POWER_VCORE
79_POWER_SYSTEM
80_POWER_I/O_1.5VS & 1.05VS
81_POWER_I/O_DDR & VTT
82_POWER_I/O_+3VAO & +2.5VS
83_POWER_CHARGER
84_POWER_DETECT
85_POWER_PROTECT
86_POWER_LOAD SWITCH
87_POWER_FLOWCHART
88_POWER_SIGNAL
89_History



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EC GPIO SETTING

Pin	Pin Name	Signal Name	Type
32	PWM0/GPA0	/	
33	PWM1/GPA1	FAN_PWM	O
36	PWM2/GPA2	/	
37	PWM3/GPA3	/	
38	PWM4/GPA4	CHG_LED_UP#	O
39	PWM5/GPA5	PWR_LED_UP#	O
40	PWM6/GPA6	/	
43	PWM7/GPA7	LCD_BACKOFF#	O
153	RXD/GPB0	NUM_LED	O
154	TXD/GPB1	CAP_LED	O
162	GPB2	SCRL_LED	O
163	SMCLK0/GPB3	SMB0_CLK	I/O
164	SMDAT0GPB4	SMB0_DAT	I/O
5	GA20/GPB5	A20GATE	O
6	KBRST#/GPB6	RC_IN#	O
165	GPB7	/	
47	CLKOUT/GPC0	/	
169	SMCLK1/GPC1	SMB1_CLK	I/O
170	SMDAT1/GPC2	SMB1_DAT	I/O
171	GPC3	/	
172	TMR10/WUI2/GPC4	ACIN_OC#	I
175	GPC5	/	O
176	TMR11/WUI3/GPC6	BAT_IN_OC#	I
1	CK32KOUT/GPC7	EC_IDE_RST#	O
26	RI1#/WUI0/GPD0	SUSB#	I
29	RI2#/WUI1/GPD1	SUSC#	I
30	LPCRST#/WUI4//GPD2	BUF_PLT_RST#	I
31	ECSC#//GPD3	EXT_SCI#	O
41	GPD4	RF_ON_SW#	I
42	GINT/GPD5	/	
62	TACH0/GPD6	FAN0_TACH	I
63	TACH1/GPD7	GAIN_AMPR#_K	O
87	ADC4/GPE0	COLOREN#	I
88	ADC5/GPE1	INTERNET#	I
89	ADC6/GPE2	MARATHON#	I
90	ADC7/GPE3	DISTP_SW#	I
2	PWRSW/GPE4	PWR_SW#	I
44	WUI5/GPE5	/	
24	LPCPD#//WUI6/GPE6	LID_EC#	I
25	CLKRUN#//WUI7/GPE7	BT_ON#	O
110	PS2CLK0/GPF0	/	
111	PS2DAT0/GPF1	/	
114	PS2CLK1/GPF2	/	
115	PS2DAT1/GPF3	/	
116	PS2CLK2/GPF4	TP_CLK	I/O
117	PS2DAT2/GPF5	TP_DAT	I/O
118	PS2CLK3/GPF6	/	
119	PS2DAT3/GPF7	INSTANTON#	I
113	FA16/GPG0	FA16_SWAP	O
112	FA17/GPG1	FA17	O
104	FA18/GPG2	FA18	O
103	FA19/GPG3	/	
3	FA20/GPG4	THRM_CPU#	I
4	FA21/GPG5	/	
27	LPC80HL/GPG6	PMTHERM#	O
28	LPC80LL/GPG7	AC_APR_UC#	I

Pin	Pin Name	Signal Name	Type
48	GPH0	VSUS_ON	O
54	GPH1	VSUS_GD#	O
55	GPH2	CPUPWR_GD#	O
69	GPH3	PM_PWRBTN#	O
70	GPH4	SUSC_ON	O
75	GPH5	SUSB_ON	O
76	GPH6	CPU_VRON	O
105	GPH7	PM_RSMRST#	O
148	GPI0	ICHT7_PWROK	O
149	GPI1	/	O
152	GPI2	/	
155	GPI3	CHG_EN#	O
156	GPI4	PRECHG	O
168	GPI5	BAT_LL#	O
174	GPI6	BAT_LEARN	O

ICHT-M GPIO SETTING

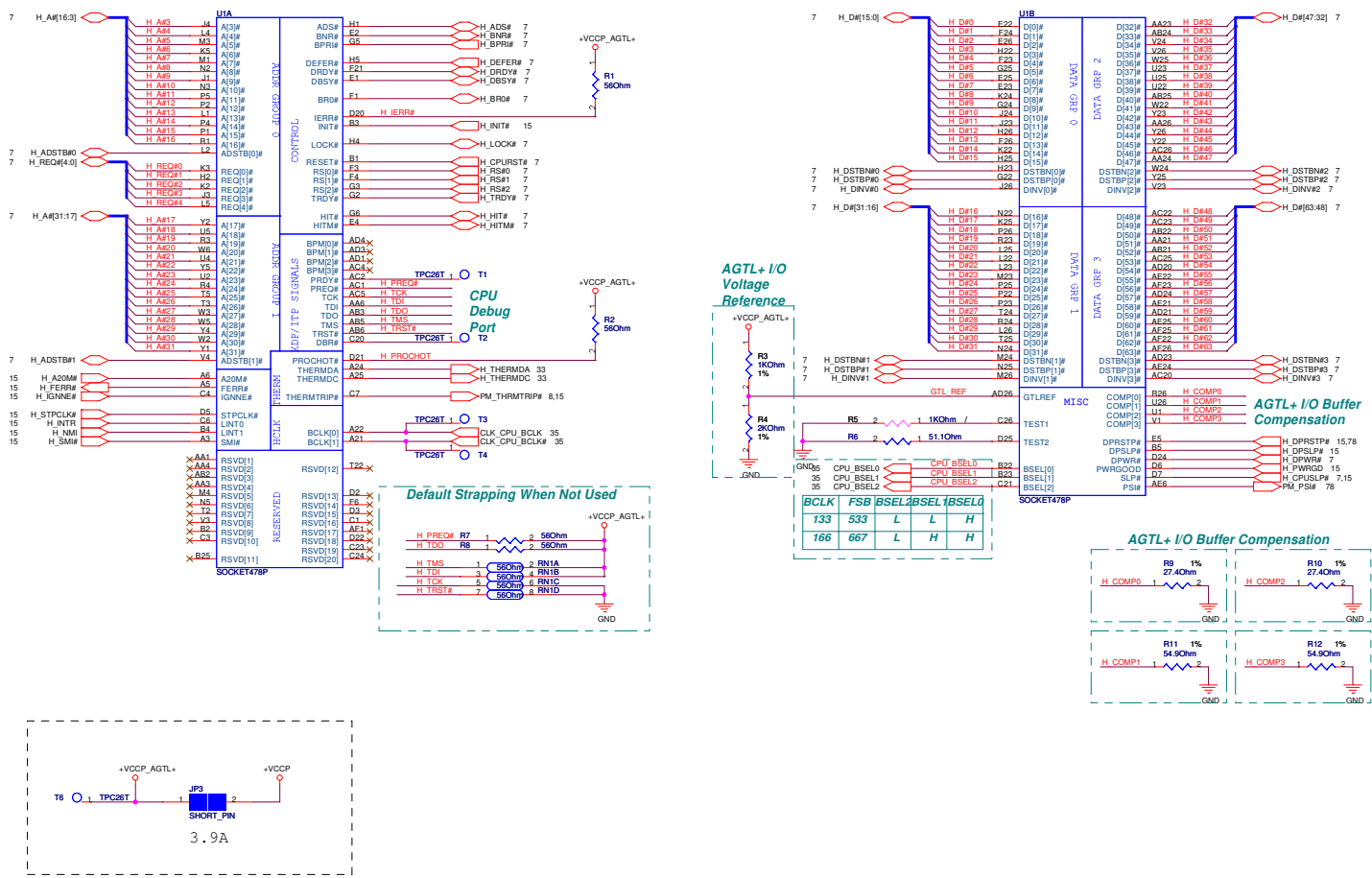
Pin	Pin Name	Signal Name	Type
AB18	GPI00/BM_BUSY#	PM_BMBUSY#	I
C8	GPI001/REQ5#	PCL_REQ#5	I
G8	GPI002/PIRQE#	PCL_INTE#	I
F7	GPI003/PIRQF#	PCL_INTF#	I
F8	GPI004/PIRQ#	PCL_INTG#	I
G7	GPI005/PIRQH#	PCL_INTH#	I
AC21	GPI006	BTLED_ON	O
AC18	GPI007	WLAN_LED_EN	O
E21	GPI008	EXTSM#	I
E20	GPI009	/	
A20	GPI010	WLAN_ON#	O
B23	SMBALERT#/GPI011	SMB_ALERT#	I
F19	GPI012	KBC_SCI#	I
E19	GPI013	/	
R4	GPI014	/	
E22	GPI015	CB_SD#	O
AC22	GPI016	PM_DPRSPLVR	O
D8	GPI017/GNT5#	PCL_GNT#5	O
AC20	GPI018/STP_PCI#	STP_PCI#	O
AH18	GPI019/SATA1GP	TP_LEDON	O
AF21	GPI020/STP_CPU#	STP_CPU#	O
AE19	GPI021/SATA0GP	CPU_SELECT	O
A13	GPI022/REQ4#	PCL_REQ#4	I
AA5	LDRQ1#/GPI023	/	
R3	GPI024	/	
D20	GPI025	/	
A21	GPI026/EL_RSVD	/	
B21	GPI027/EL_STATE0	BT_DET#	
E23	GPI028/EL_STATE1	/	
C3	GPI029/OC#5	USB_OC#5	I
A2	GPI030/OC#6	NEWCARD_OC#	I
B3	GPI031/OC#7	USB_OC#7	I
AG18	GPI032/CLKRUN#	PM_CLKRUN#	O
AC19	GPI033/AZ_DOCK_EN#	/	
U2	GPI034/AZ_DOCK_RST#	/	
AD21	GPI035	PANEL_ID0	I
AH19	GPI036/SATA2GP	PANEL_ID1	I
AE19	GPI037/SATA3GP	PCB_ID0	I
AD20	GPI038	PCB_ID1	I
AE20	GPI039	PCB_ID2	I
GNT4#/GPI048		PCL_GNT#4	O
A14	GPI048/CPUPWRGD	H_PWRGD	O
AG24			

PCI Device	IDSEL#	REQ/GNT#	Interrupts
10/100 RTL8100CL	AD16	2	C
R5C832 CARD READER	AD17	0	C
R5C832 1394	AD17	0	B
R5C841 CARD READER	AD18	1	C
R5C841 1394	AD18	1	B
Mini PCI Card	AD19	3	G,H

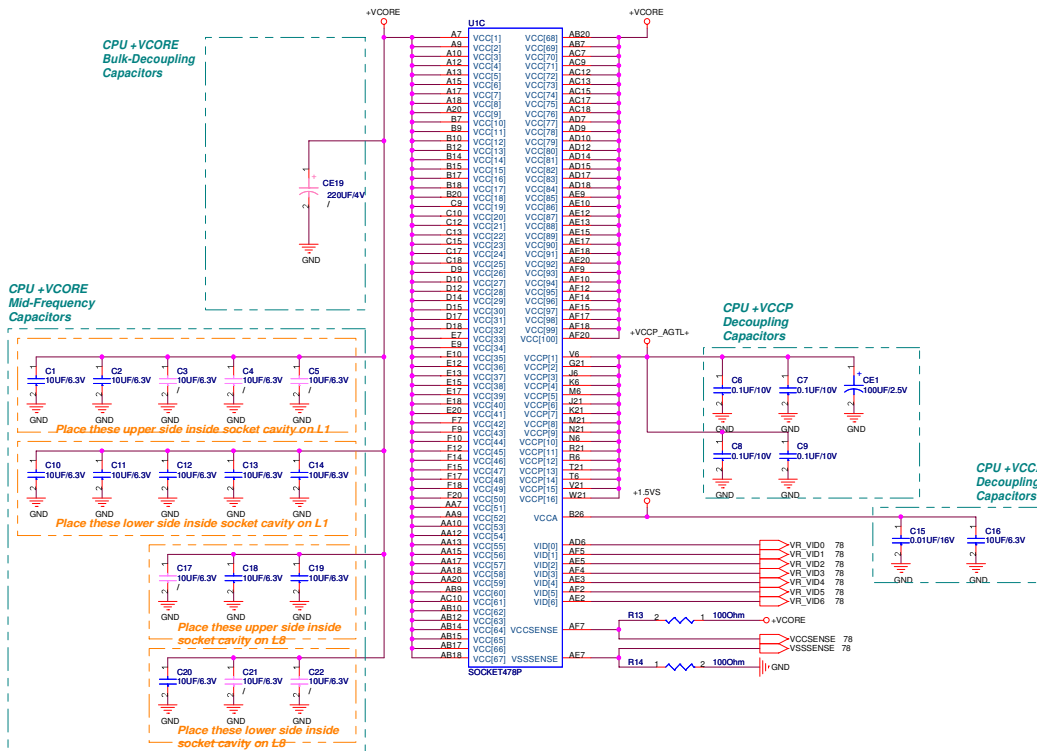
SM-Bus Device	SM-Bus Address
Clock Generator	1101001x (D2)
SO-DIMM 0	1010000x (A0)
SO-DIMM 1	1010001x (A2)
Thermal Sensor	0101110x (5C)

		Title : System Setting	
ASUSTek Computer INC. NB1		Engineer: Frank Wang	
Size	Project Name		Rev
Custom	FTF		2.0
Date: 8/8/2007		Sheet: 2	of 89

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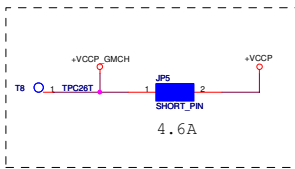


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J10		
A4	VSS[1]	VSS[82]
A8	VSS[2]	VSS[83]
A11	VSS[3]	VSS[84]
A14	VSS[4]	VSS[85]
A16	VSS[5]	VSS[86]
A18	VSS[6]	VSS[87]
A21	VSS[7]	VSS[88]
A23	VSS[8]	VSS[89]
A26	VSS[9]	VSS[90]
B1	VSS[10]	VSS[91]
B11	VSS[11]	VSS[92]
B13	VSS[12]	VSS[93]
B16	VSS[13]	VSS[94]
B19	VSS[14]	VSS[95]
B21	VSS[15]	VSS[96]
B24	VSS[16]	VSS[97]
C1	VSS[17]	VSS[98]
C11	VSS[18]	VSS[99]
C14	VSS[19]	VSS[100]
C16	VSS[20]	VSS[101]
C19	VSS[21]	VSS[102]
C2	VSS[22]	VSS[103]
C22	VSS[23]	VSS[104]
C25	VSS[24]	VSS[105]
C27	VSS[25]	VSS[106]
D1	VSS[26]	VSS[107]
D4	VSS[27]	VSS[108]
D11	VSS[28]	VSS[109]
D13	VSS[29]	VSS[110]
D16	VSS[30]	VSS[111]
D19	VSS[31]	VSS[112]
D23	VSS[32]	VSS[113]
D26	VSS[33]	VSS[114]
D28	VSS[34]	VSS[115]
E1	VSS[35]	VSS[116]
E11	VSS[36]	VSS[117]
E14	VSS[37]	VSS[118]
E16	VSS[38]	VSS[119]
E19	VSS[39]	VSS[120]
E21	VSS[40]	VSS[121]
E24	VSS[41]	VSS[122]
F1	VSS[42]	VSS[123]
F11	VSS[43]	VSS[124]
F13	VSS[44]	VSS[125]
F16	VSS[45]	VSS[126]
F19	VSS[46]	VSS[127]
F21	VSS[47]	VSS[128]
F24	VSS[48]	VSS[129]
G1	VSS[49]	VSS[130]
G11	VSS[50]	VSS[131]
G14	VSS[51]	VSS[132]
G16	VSS[52]	VSS[133]
G19	VSS[53]	VSS[134]
G21	VSS[54]	VSS[135]
G24	VSS[55]	VSS[136]
H1	VSS[56]	VSS[137]
H11	VSS[57]	VSS[138]
H14	VSS[58]	VSS[139]
H16	VSS[59]	VSS[140]
H19	VSS[60]	VSS[141]
J1	VSS[61]	VSS[142]
J11	VSS[62]	VSS[143]
J14	VSS[63]	VSS[144]
J16	VSS[64]	VSS[145]
J19	VSS[65]	VSS[146]
K1	VSS[66]	VSS[147]
K11	VSS[67]	VSS[148]
K14	VSS[68]	VSS[149]
K16	VSS[69]	VSS[150]
K19	VSS[70]	VSS[151]
L1	VSS[71]	VSS[152]
L11	VSS[72]	VSS[153]
L14	VSS[73]	VSS[154]
L16	VSS[74]	VSS[155]
L19	VSS[75]	VSS[156]
M1	VSS[76]	VSS[157]
M11	VSS[77]	VSS[158]
M14	VSS[78]	VSS[159]
M16	VSS[79]	VSS[160]
M19	VSS[80]	VSS[161]
N1	VSS[81]	VSS[162]

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RCOMP

For Calibrating the FSB I/O Buffer



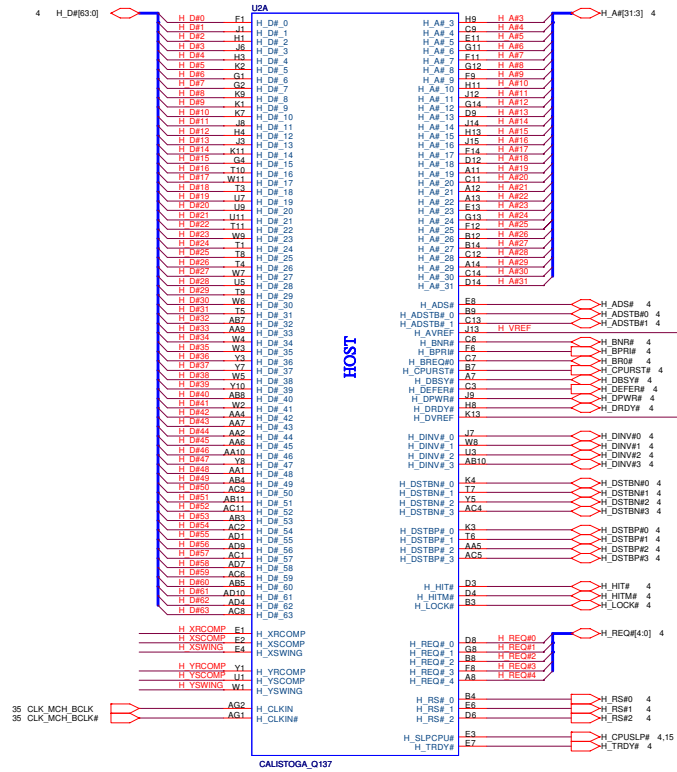
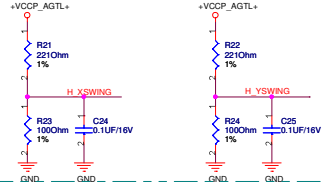
SCOMP

For Slow Rate Compensation on the FSB

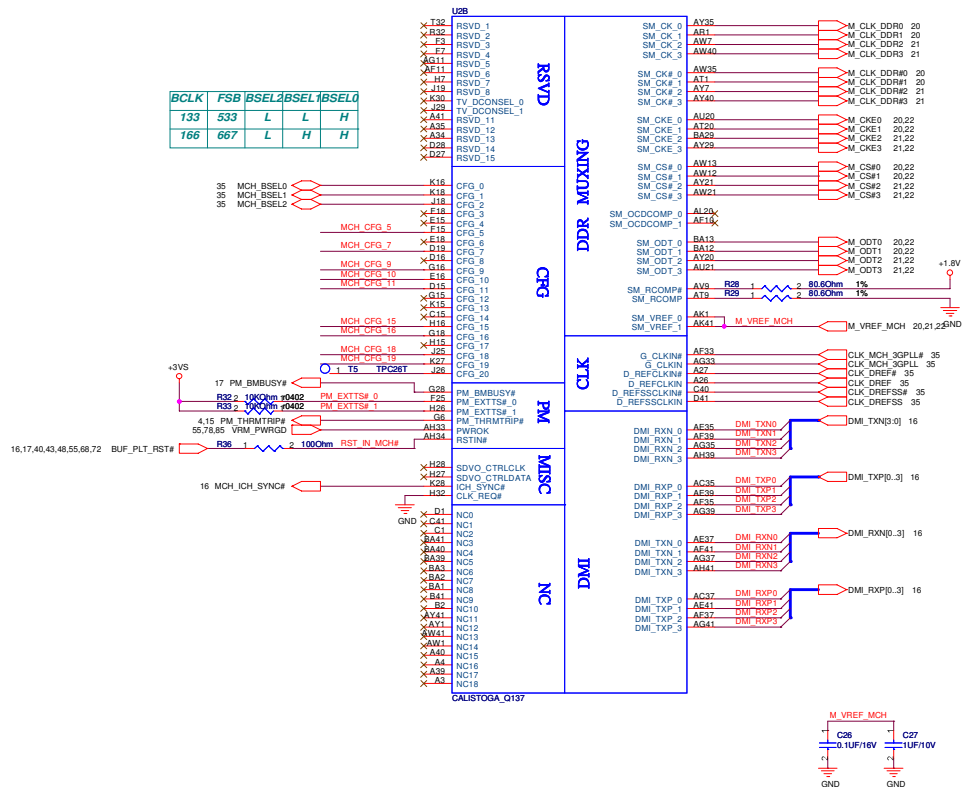
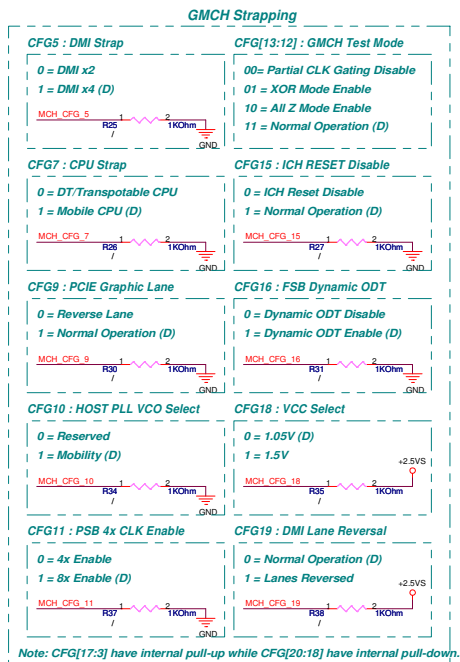


Voltage Swing

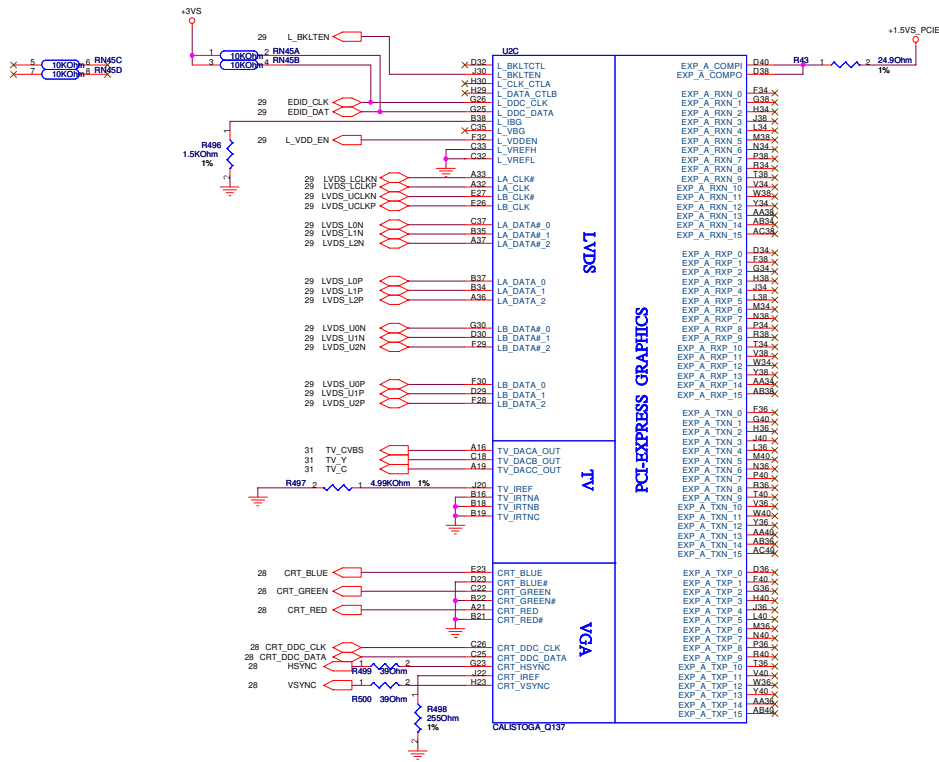
For Providing a Reference Voltage to The FSB RCOMP circuits



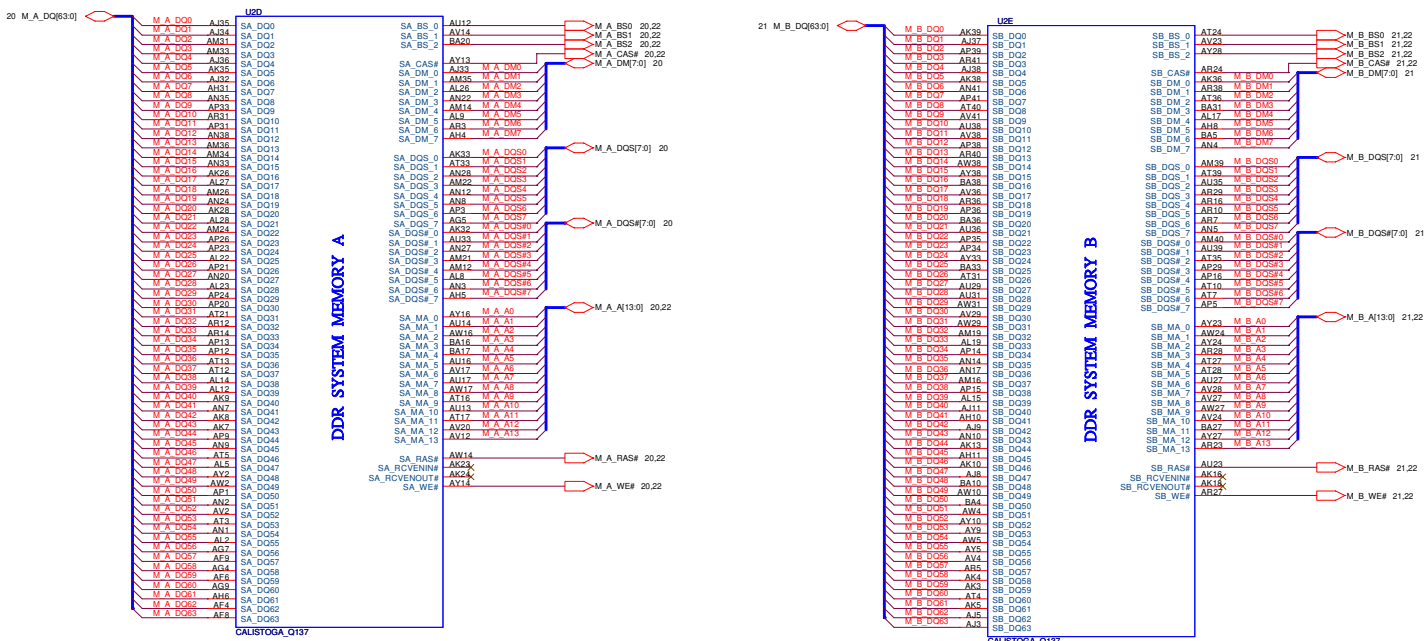
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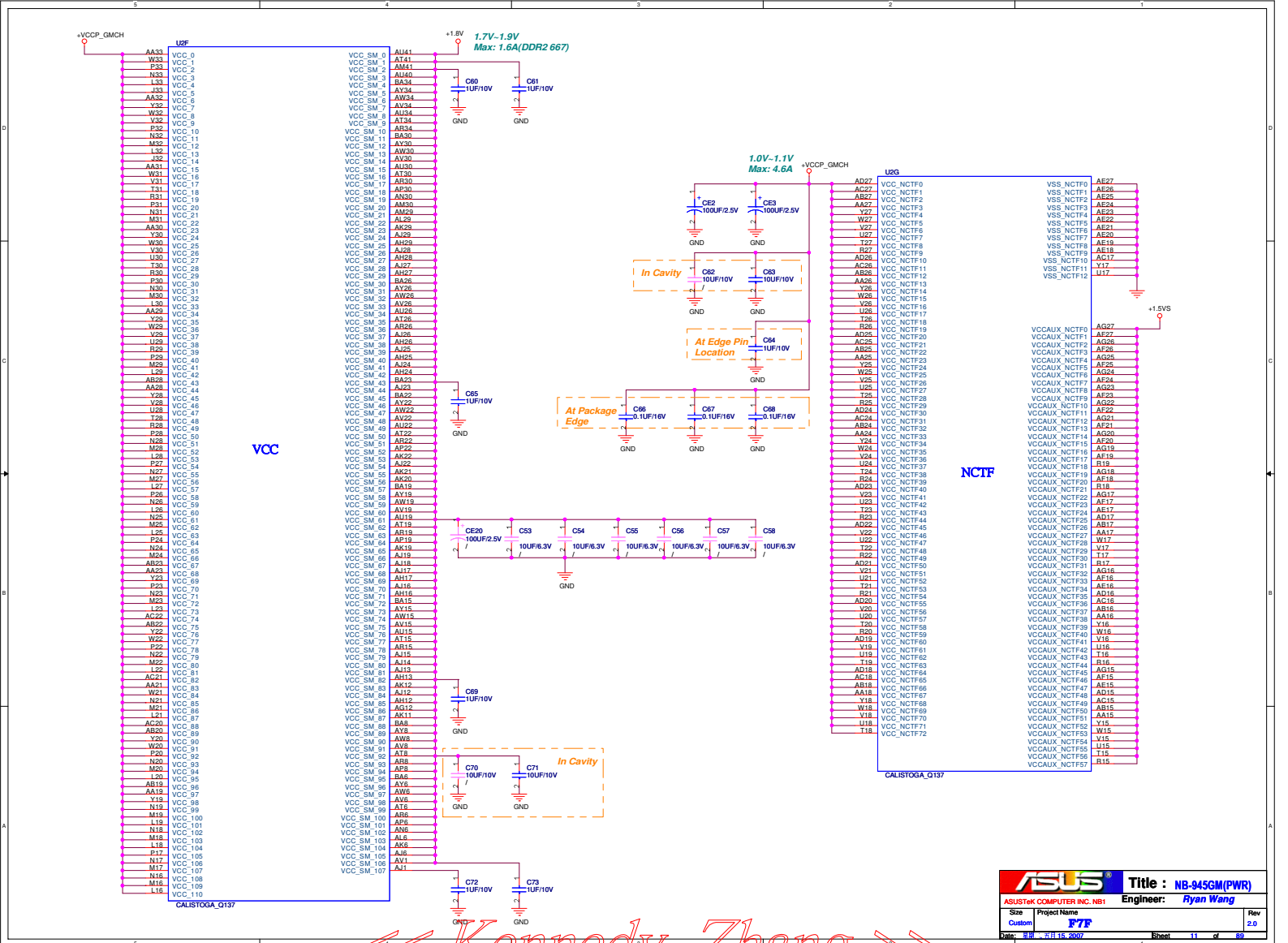
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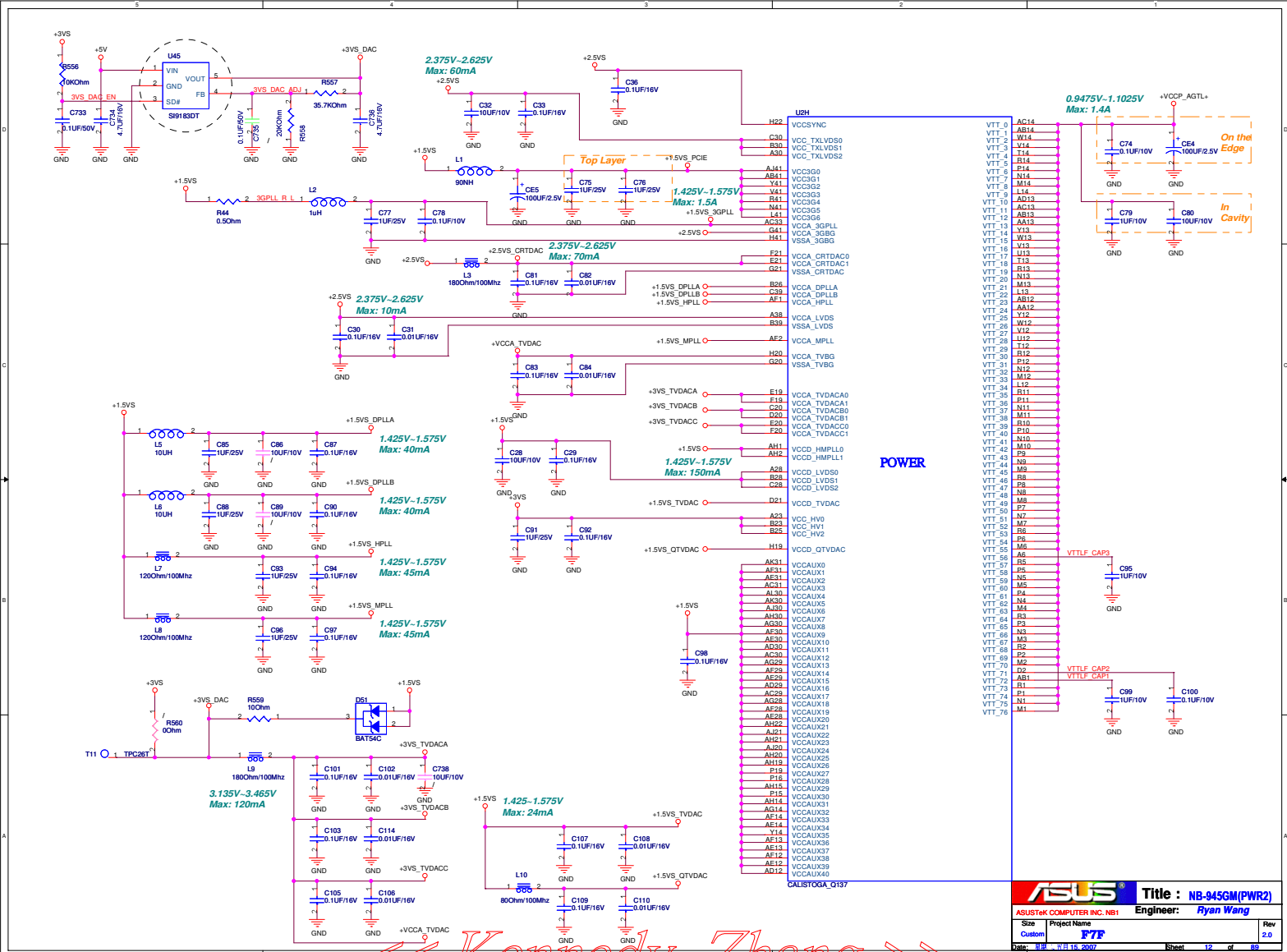


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AC11	VSS 0	AK34	VSS 97
AA41	VSS 1	AG34	VSS 98
WA11	VSS 2	AF34	VSS 99
TA11	VSS 3	AE34	VSS 100
PA11	VSS 4	AC34	VSS 101
MA11	VSS 5	CA	VSS 102
JA11	VSS 6	AW33	VSS 103
FA11	VSS 7	AV33	VSS 104
AW40	VSS 8	AR33	VSS 105
AP40	VSS 9	AE33	VSS 106
AM40	VSS 10	AB33	VSS 107
AK40	VSS 11	Y33	VSS 108
AL40	VSS 12	Y33	VSS 109
AL40	VSS 13	Y33	VSS 110
AF40	VSS 14	B33	VSS 111
AE40	VSS 15	H33	VSS 112
BA6	VSS 16	G33	VSS 113
AV38	VSS 17	F33	VSS 114
AW38	VSS 18	AV21	VSS 115
AV38	VSS 19	B33	VSS 116
AB38	VSS 20	Y33	VSS 117
AB38	VSS 21	Y33	VSS 118
AB38	VSS 22	AF32	VSS 119
AB38	VSS 23	VSS 120	VSS 120
AB38	VSS 24	VSS 121	VSS 121
AB38	VSS 25	AC32	VSS 122
AA38	VSS 26	AB32	VSS 123
W38	VSS 27	G32	VSS 124
Y38	VSS 28	B32	VSS 125
Y38	VSS 29	AY31	VSS 126
Y38	VSS 30	AY31	VSS 127
P38	VSS 31	AN31	VSS 128
N38	VSS 32	AG31	VSS 129
N38	VSS 33	AB31	VSS 130
N38	VSS 34	Y31	VSS 131
L38	VSS 35	Y31	VSS 132
J38	VSS 36	AB30	VSS 133
J38	VSS 37	E30	VSS 134
G38	VSS 38	AT29	VSS 135
F38	VSS 39	AN29	VSS 136
D38	VSS 40	AB29	VSS 137
AT38	VSS 41	T28	VSS 138
AM38	VSS 42	V38	VSS 139
AM38	VSS 43	K28	VSS 140
AF38	VSS 44	G28	VSS 141
AF38	VSS 45	E28	VSS 142
AE38	VSS 46	C28	VSS 143
C38	VSS 47	B28	VSS 144
AK37	VSS 48	A28	VSS 145
AK37	VSS 49	BA28	VSS 146
AK37	VSS 50	AW28	VSS 147
Y27	VSS 51	AU28	VSS 148
Y27	VSS 52	AP28	VSS 149
W27	VSS 53	AM28	VSS 150
W27	VSS 54	AD28	VSS 151
T27	VSS 55	AC28	VSS 152
T27	VSS 56	W28	VSS 153
P27	VSS 57	J28	VSS 154
N27	VSS 58	E28	VSS 155
M27	VSS 59	AM27	VSS 160
L27	VSS 60	AK27	VSS 161
J27	VSS 61	VSS 158	VSS 158
J27	VSS 62	VSS 159	VSS 159
G27	VSS 63	G27	VSS 160
F27	VSS 64	VSS 161	VSS 161
D27	VSS 65	C27	VSS 162
D27	VSS 66	B27	VSS 163
AW36	VSS 67	AM26	VSS 164
AW36	VSS 68	M26	VSS 165
AW36	VSS 69	K26	VSS 166
AC36	VSS 70	VSS 167	VSS 167
AC36	VSS 71	D26	VSS 168
AC36	VSS 72	AK25	VSS 169
AC36	VSS 73	P25	VSS 170
C36	VSS 74	K25	VSS 171
B36	VSS 75	J25	VSS 172
BA35	VSS 76	E25	VSS 173
AV35	VSS 77	D25	VSS 174
AV35	VSS 78	A25	VSS 175
AL35	VSS 79	BA24	VSS 176
AB35	VSS 80	AU24	VSS 177
AA35	VSS 81	AL24	VSS 178
Y25	VSS 82	AW24	VSS 179
W25	VSS 83		
W25	VSS 84		
T25	VSS 85		
T25	VSS 86		
B35	VSS 87		
F35	VSS 88		
M35	VSS 89		
L35	VSS 90		
J35	VSS 91		
J35	VSS 92		
G35	VSS 93		
F35	VSS 94		
D35	VSS 95		
AN34	VSS 96		

CA15T0GA_G137

GND

GND

AT29	VSS 180	VSS 273	J11
AM29	VSS 181	VSS 274	D11
AM29	VSS 182	VSS 275	B11
AC29	VSS 183	VSS 276	AV10
W29	VSS 184	VSS 277	AP10
W29	VSS 185	VSS 278	AL10
J29	VSS 186	VSS 279	AL10
J29	VSS 187	VSS 280	AG10
C29	VSS 188	VSS 281	W10
C29	VSS 189	VSS 282	AC10
VSS 190	VSS 190	VSS 283	BA9
VSS 191	VSS 191	VSS 284	BA9
VSS 192	VSS 192	VSS 285	AW9
VSS 193	VSS 193	VSS 286	AB9
VSS 194	VSS 194	VSS 287	AB9
VSS 195	VSS 195	VSS 288	Y9
VSS 196	VSS 196	VSS 289	Y9
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VSS 198	VSS 198	VSS 291	Y9
VSS 199	VSS 199	VSS 292	Y9
VSS 200	VSS 200	VSS 293	Y9
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VSS 242	VSS 242	VSS 335	Y9
VSS 243	VSS 243	VSS 336	Y9
VSS 244	VSS 244	VSS 337	Y9
VSS 245	VSS 245	VSS 338	Y9
VSS 246	VSS 246	VSS 339	Y9
VSS 247	VSS 247	VSS 340	Y9
VSS 248	VSS 248	VSS 341	Y9
VSS 249	VSS 249	VSS 342	Y9
VSS 250	VSS 250	VSS 343	Y9
VSS 251	VSS 251	VSS 344	Y9
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VSS 256	VSS 256	VSS 349	Y9
VSS 257	VSS 257	VSS 350	Y9
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VSS 265	VSS 265	VSS 358	Y9
VSS 266	VSS 266	VSS 359	Y9
VSS 267	VSS 267	VSS 360	Y9
VSS 268	VSS 268		
VSS 269	VSS 269		
VSS 270	VSS 270		
VSS 271	VSS 271		
VSS 272	VSS 272		

VSS

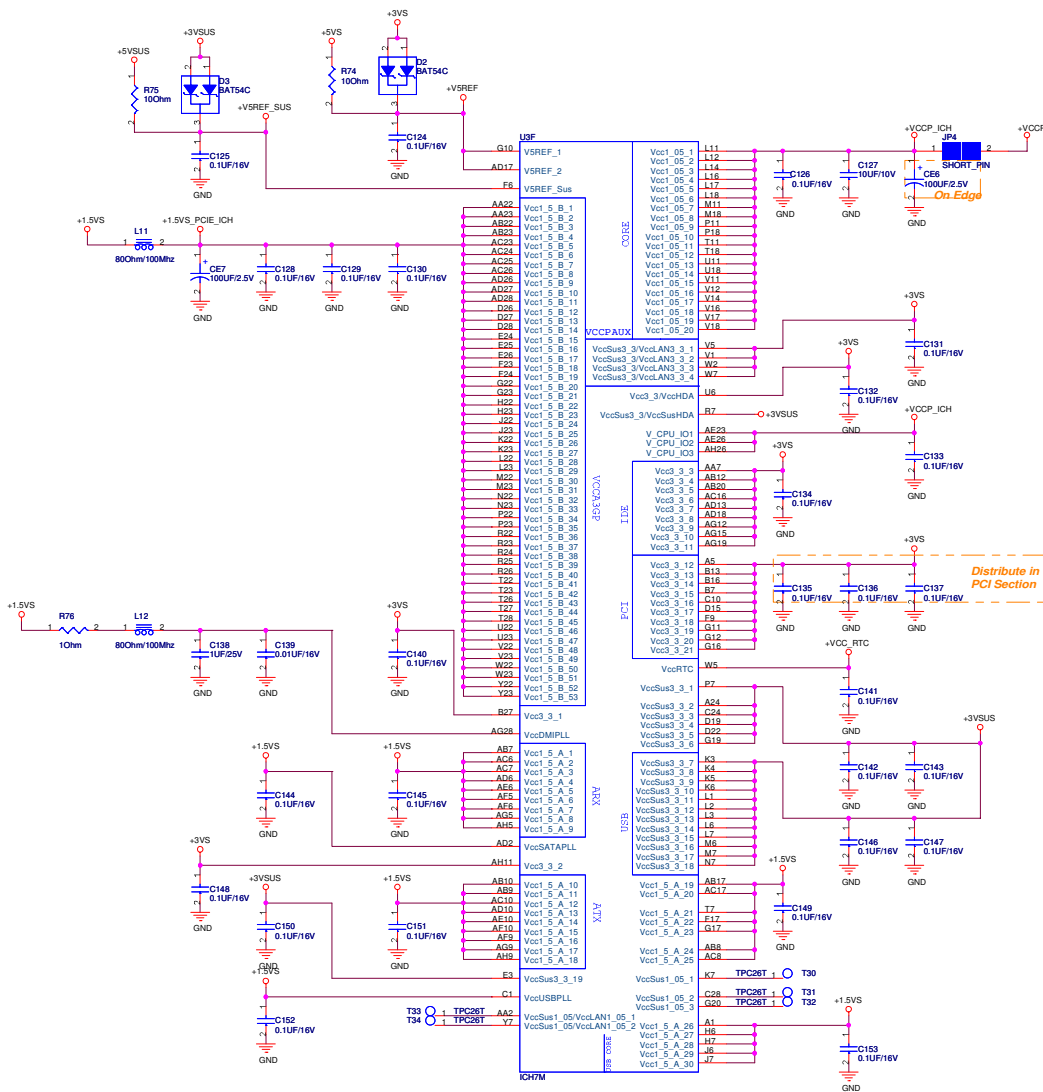
GND

CA15T0GA_G137

GND

ASUS		Title : NB-945GM(GND)	
ASUSTeK COMPUTER INC. NBI		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/8/2007	Sheet: 13	of	89

<< Kennedy_Zhang >>



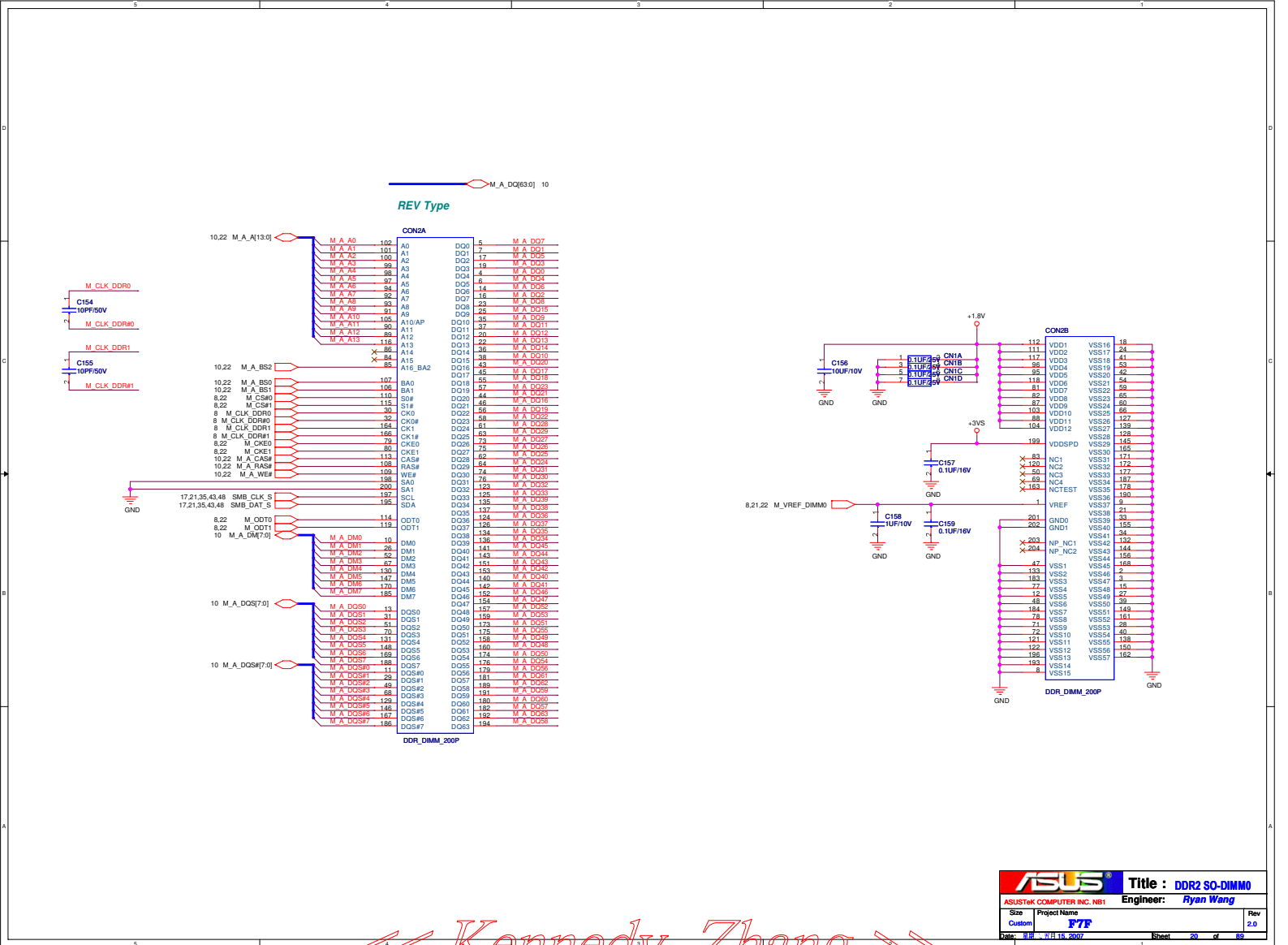
Pin	Pin	Pin
A1	Vss8	P28
A2	Vss9	R1
B1	Vss10	R11
B2	Vss11	R12
B3	Vss12	R13
B4	Vss13	R14
B5	Vss14	R15
B6	Vss15	R16
B7	Vss16	R17
B8	Vss17	R18
B9	Vss18	R19
B10	Vss19	R20
B11	Vss20	R21
B12	Vss21	R22
B13	Vss22	R23
B14	Vss23	R24
B15	Vss24	R25
B16	Vss25	R26
B17	Vss26	R27
B18	Vss27	R28
B19	Vss28	R29
B20	Vss29	R30
B21	Vss30	R31
B22	Vss31	R32
B23	Vss32	R33
B24	Vss33	R34
B25	Vss34	R35
B26	Vss35	R36
B27	Vss36	R37
B28	Vss37	R38
B29	Vss38	R39
B30	Vss39	R40
B31	Vss40	R41
B32	Vss41	R42
B33	Vss42	R43
B34	Vss43	R44
B35	Vss44	R45
B36	Vss45	R46
B37	Vss46	R47
B38	Vss47	R48
B39	Vss48	R49
B40	Vss49	R50
B41	Vss50	R51
B42	Vss51	R52
B43	Vss52	R53
B44	Vss53	R54
B45	Vss54	R55
B46	Vss55	R56
B47	Vss56	R57
B48	Vss57	R58
B49	Vss58	R59
B50	Vss59	R60
B51	Vss60	R61
B52	Vss61	R62
B53	Vss62	R63
B54	Vss63	R64
B55	Vss64	R65
B56	Vss65	R66
B57	Vss66	R67
B58	Vss67	R68
B59	Vss68	R69
B60	Vss69	R70
B61	Vss70	R71
B62	Vss71	R72
B63	Vss72	R73
B64	Vss73	R74
B65	Vss74	R75
B66	Vss75	R76
B67	Vss76	R77
B68	Vss77	R78
B69	Vss78	R79
B70	Vss79	R80
B71	Vss80	R81
B72	Vss81	R82
B73	Vss82	R83
B74	Vss83	R84
B75	Vss84	R85
B76	Vss85	R86
B77	Vss86	R87
B78	Vss87	R88
B79	Vss88	R89
B80	Vss89	R90
B81	Vss90	R91
B82	Vss91	R92
B83	Vss92	R93
B84	Vss93	R94
B85	Vss94	R95
B86	Vss95	R96
B87	Vss96	R97
B88	Vss97	R98
B89	Vss98	R99
B90	Vss99	R100

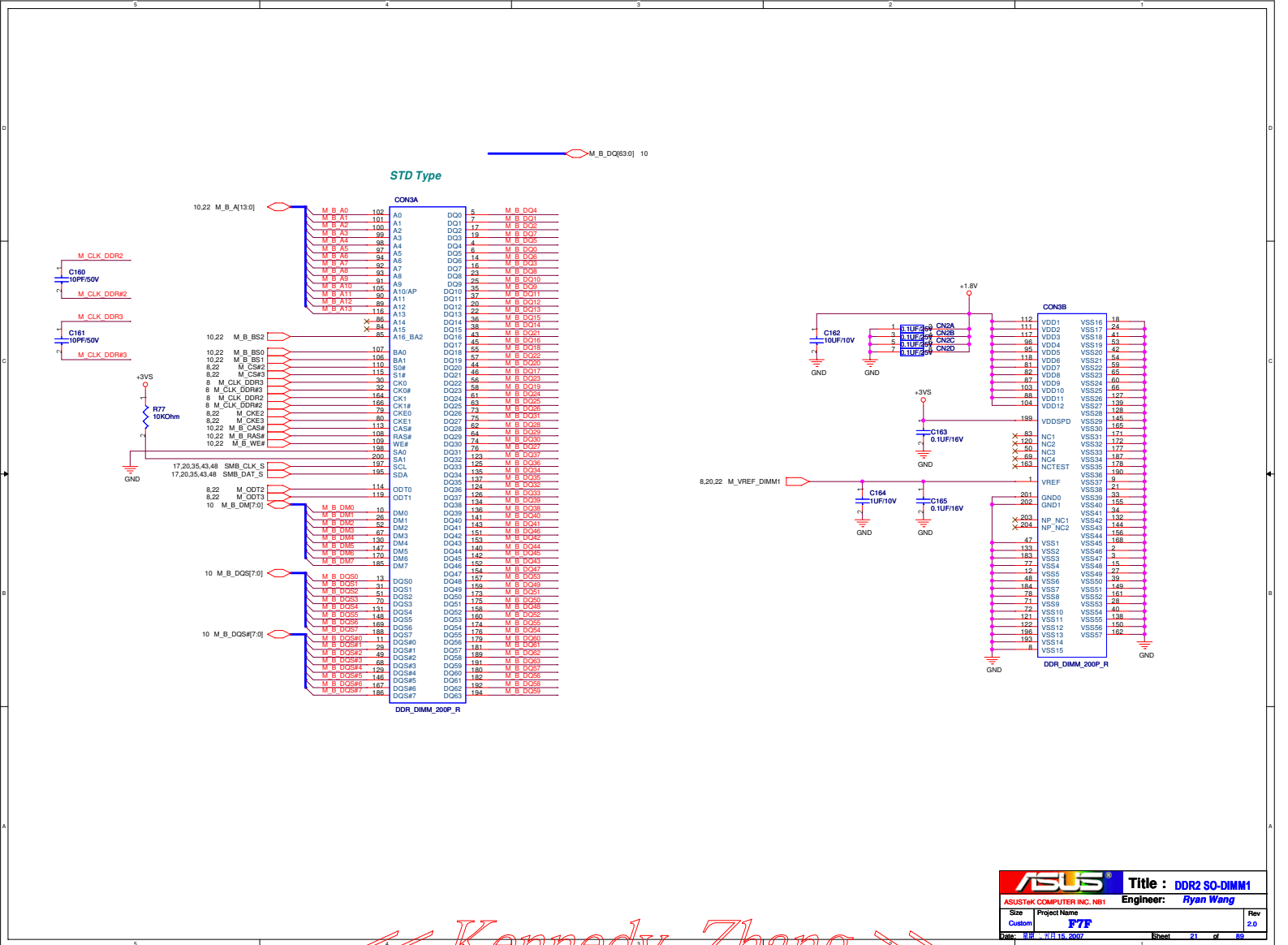
« Kennedy_Zhang »

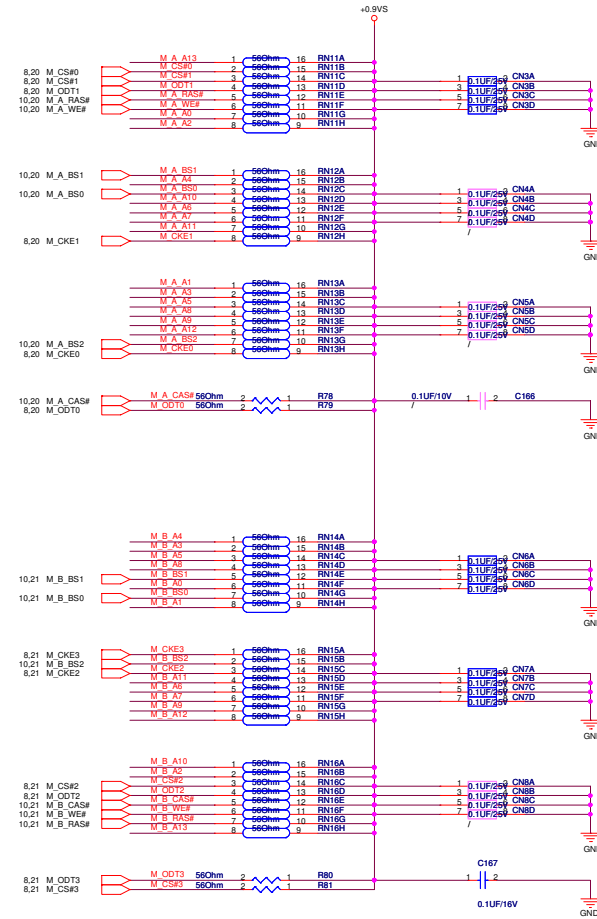
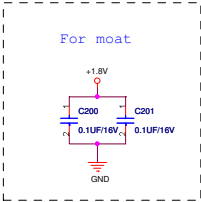
S		4		3		2		1	
D									
C									
B									
A									
S									

<< Kennedy_Zhang >>

		Title : Schematic page name	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	PTF		2.0
Date: 8/8/2007	Sheet 19 of 89		







<< Kennedy_Zhang >>

S		4		3		2		1	
D									
C									
B									
A									
S									

<

<< Kennedy_Zhang >>

		Title : Schematic page name	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	PTF		2.0
Date: 8/8/2007	Sheet 23 of 89		

E	D	C	B	A
D				
C				
B				
A				
E				

<< Kennedy_Zhang >>

		Title: Schematic page name	
ASUSTek COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	PTF		2.0
Date: 8/8/2007	Sheet 25 of 89		

		Title :	
ASUSTek COMPUTER INC.		Engineer: <i>Ryan Wang</i>	
Size	Project Name		Rev
Custom	FTF		2.0
Date: 星期二, 五月 15, 2007	Sheet 26 of 89		

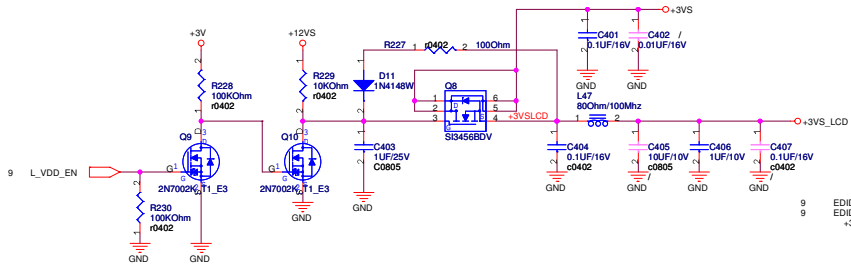
«« Kennedy_Zhang »»

<< Kennedy_Zhang >>

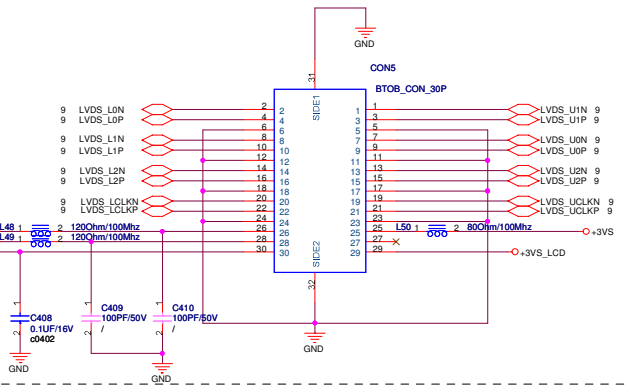
		Title :Schematic page name	
HUSTIA COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
C	F7F		2A
Date	10-14-15-2007	Sheet	21 of 25

LCD Backlight Control

LCD Power



LCD LVDS Interface

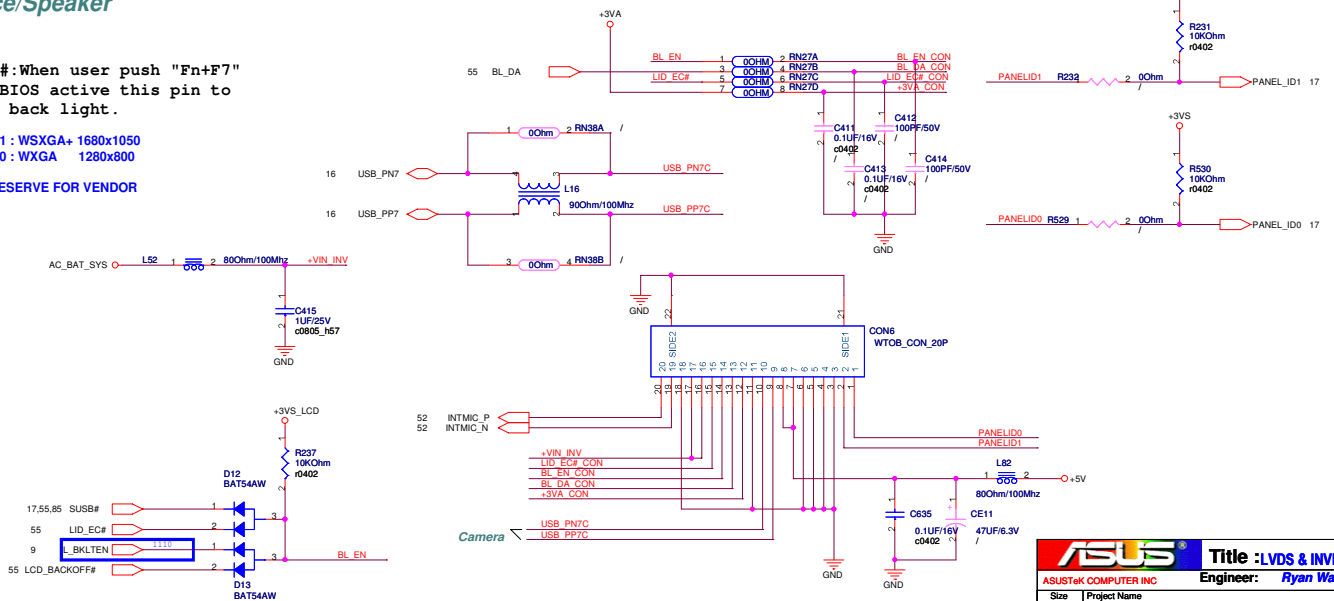


INVERTER
Interface/Speaker
CONN.

BIOS
BACK_OFF#:When user push "Fn+F7"
button, BIOS active this pin to
turn off back light.

PANEL ID1 = 1 : WSXGA+ 1680x1050
PANEL ID1 = 0 : WXGA 1280x800

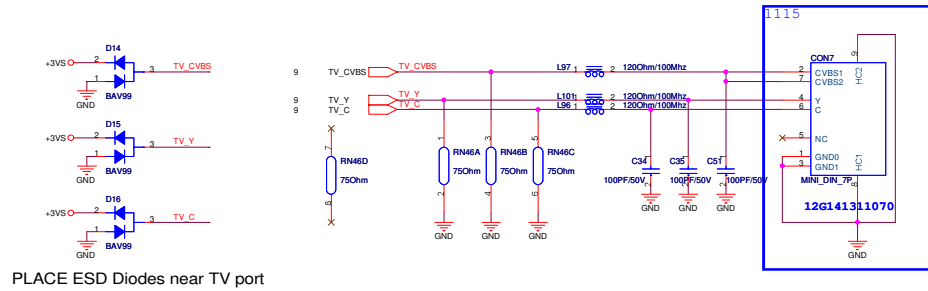
PANEL ID0 RESERVE FOR VENDOR



<< Kennedy_Zhang >>



TV OUT



ASUS		Title : TV OUT & AV_IN	
ASUSTeK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	PTF	2.0	
Date: 8/8/2007	8/8/15/2007	Sheet	31 of 89

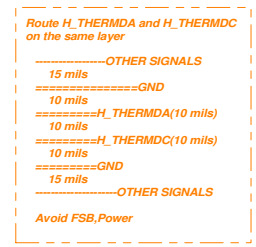
« Kennedy_Zhang »

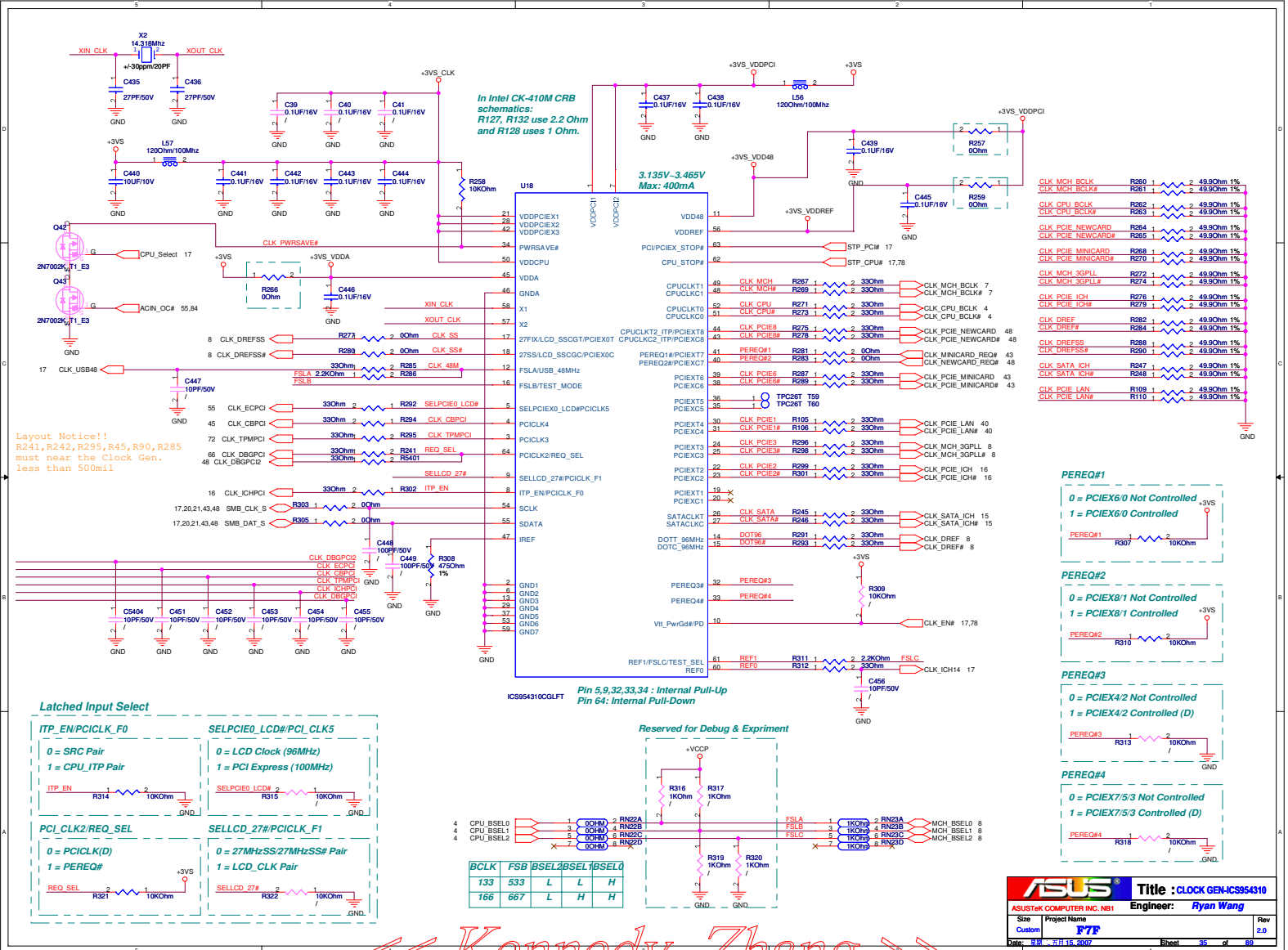
S		4		3		2		1	
D									
C									
B									
A									
S									

<< Kennedy_Zhang >>

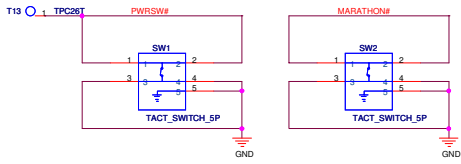
		Title : Schematic page name	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	PTF		2.0
Date: 8/8/2007	Sheet 32 of 89		

<< Kennedy_Zhang >>

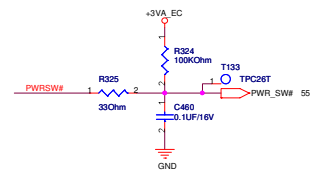
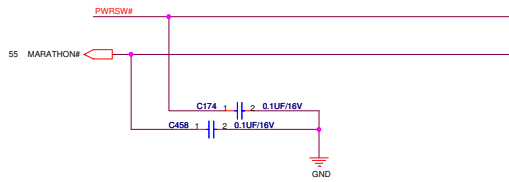
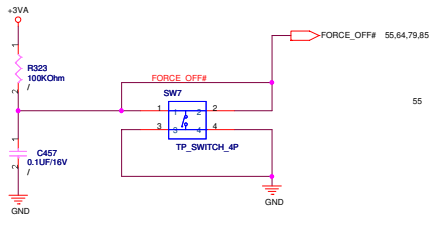




« Kennedy_Zhang »

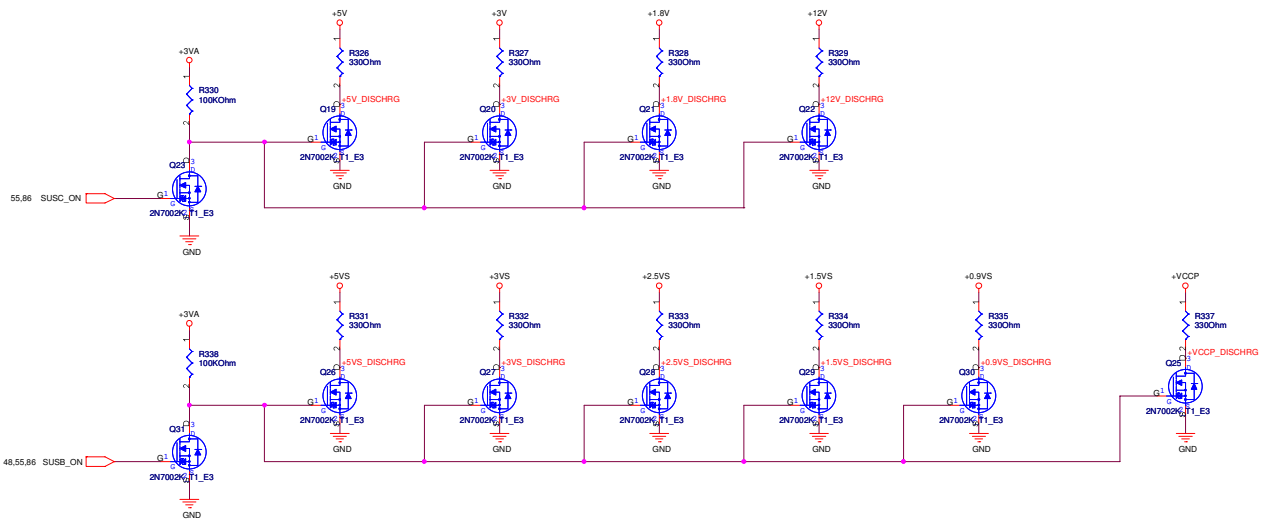


SHUT_DOWN#



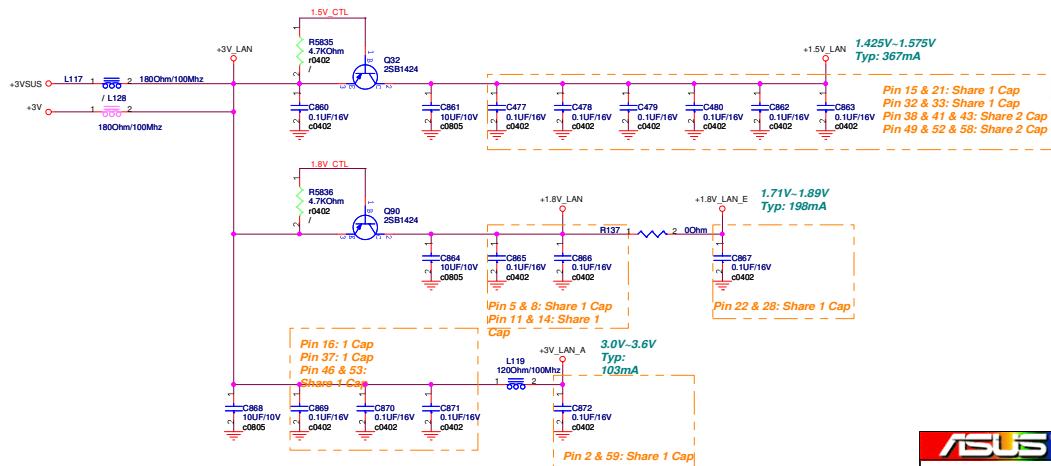
ASUS		Title : Power on & Res Freq	
ASUSTeK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	PTF		2.0
Date: 8/8/2007	8/8/15/2007	Sheet 37 of 89	

<< Kennedy_Zhang >>

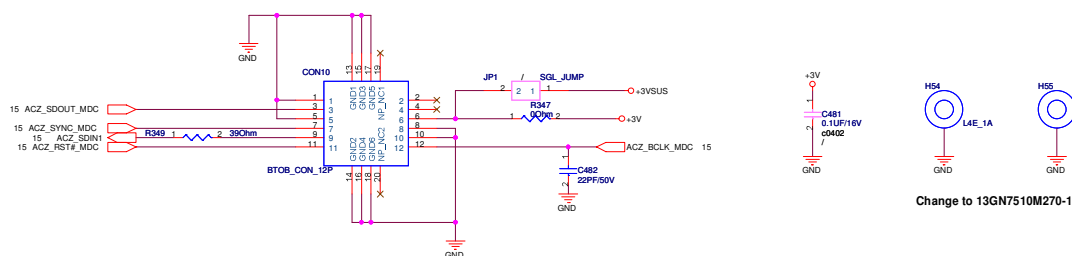


<< Kennedy_Zhang >>

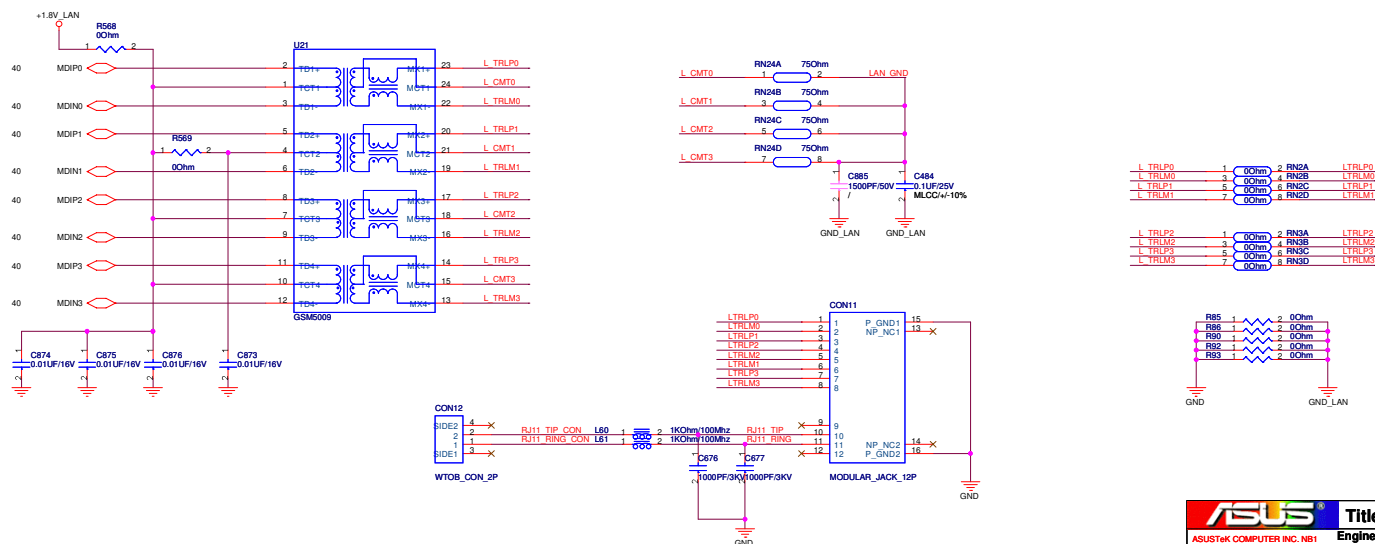
ASUS		Title : DISCHARGE & EMI CAP	
ASUSTeK COMPUTER INC. NE1		Engineer: Ryan Wang	
Size	Project Name		Rev
Custom	FTF		2.0
Date: 8/15/2007		Sheet: 38	of 89



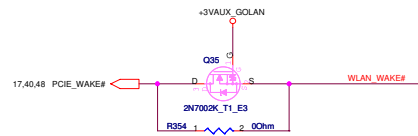
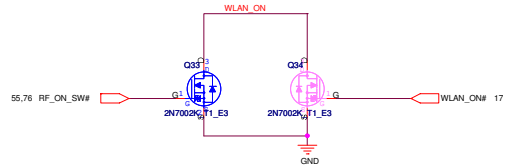
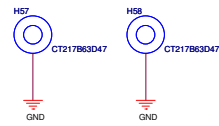
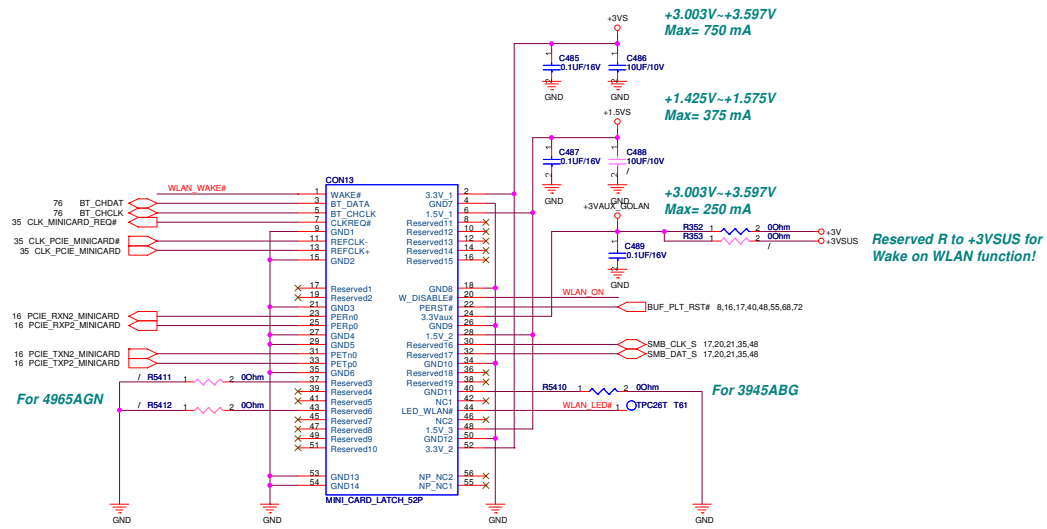
MDC CONN.



LAN CONN.



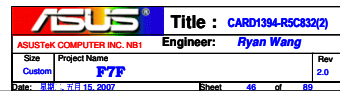
<< Kennedy_Zhang >>



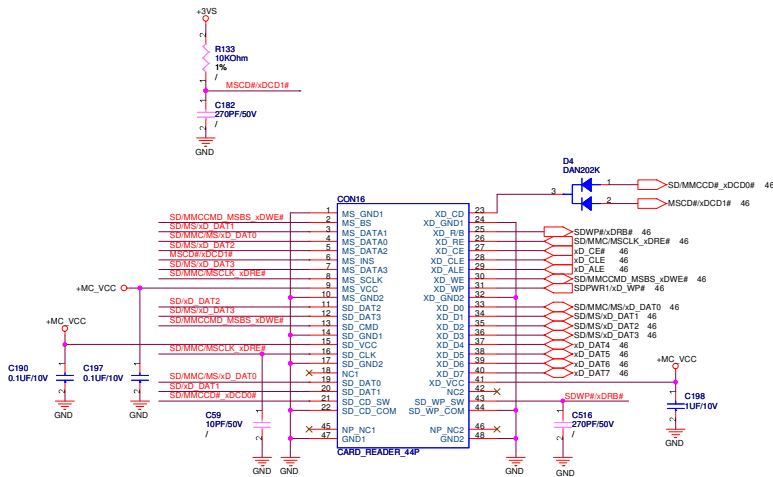
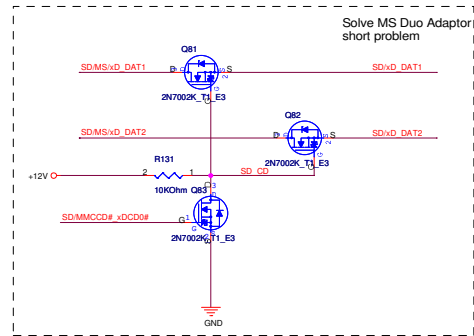
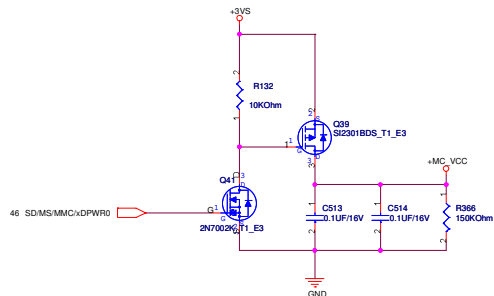
ASUS		Title : MINICARD	
ASUSTek COMPUTER INC. NE1		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/8/2007	8/8/15/2007	Sheet 43 of 89	

<< Kennedy_Zhang >>

		Title :	
ASUSTeK COMPUTER INC		Engineer: <i>Ryan Wang</i>	
Size Custom	Project Name <i>FTF</i>		Rev 2.0
Date: 星期日, 五月 15, 2007		Sheet	44 of 69

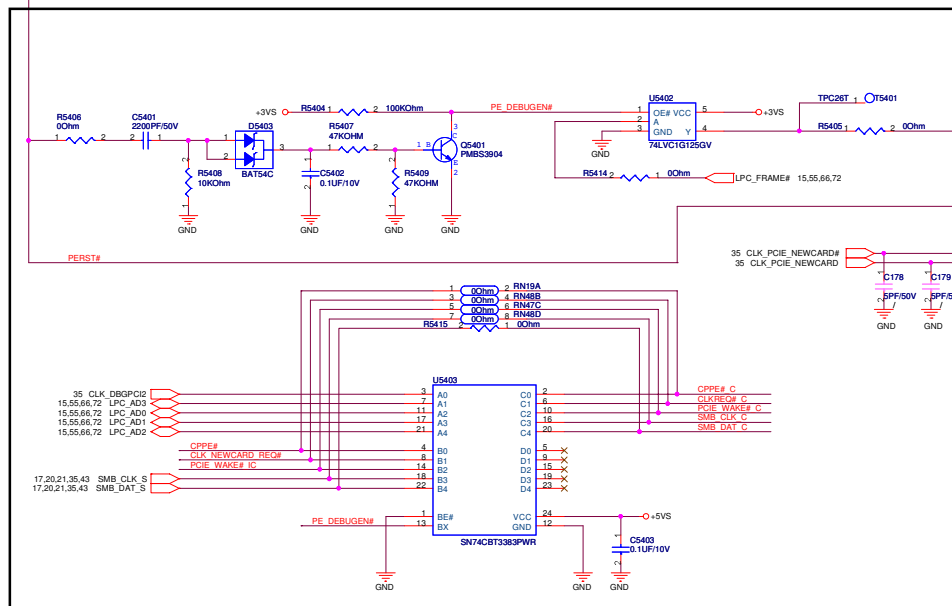
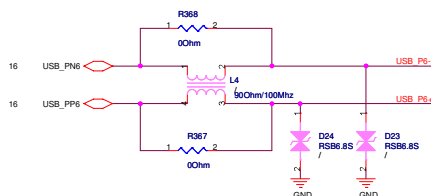
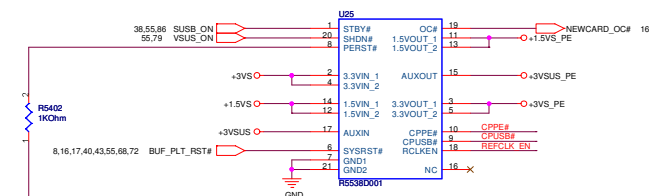


<< Kennedy_Zhang >>



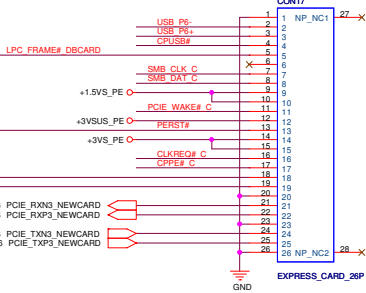
ASUS		Title 4 in 1 CARD READER	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/15/2007	Sheet 47 of 89		

<< Kennedy_Zhang >>

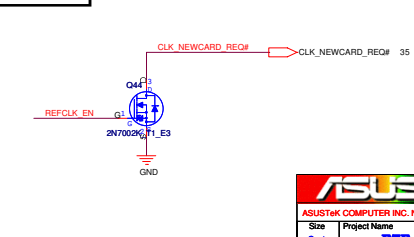
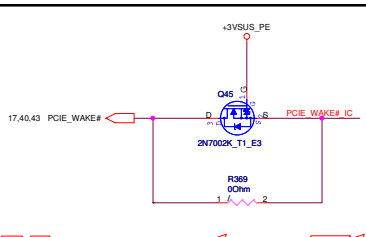
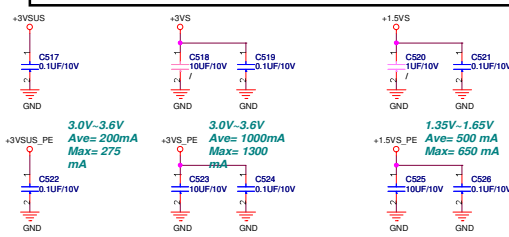
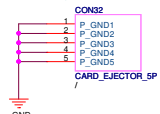


!! ExpressCard Standard 1.0:
Change Pin7 from RESERVED to SMBCLK
Change Pin8 from SMBCLK to SMBDATA
Change Pin9 from SMBDATA to +1.5V

NewCard Header



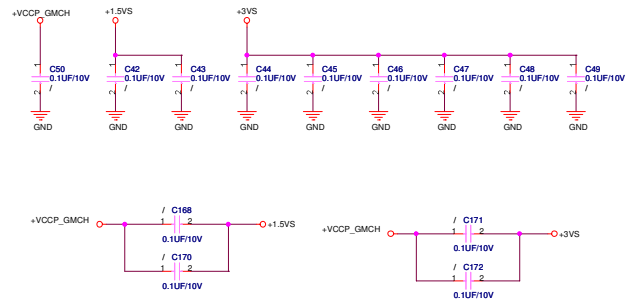
NewCard Ejector



ASUS		Title : NEWCARD	
ASUSTEK COMPUTER INC. NBI		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	F7F	2.0	
Date: 8/8/2007	Sheet: 48	of	89

<< Kennedy_Zhang >>

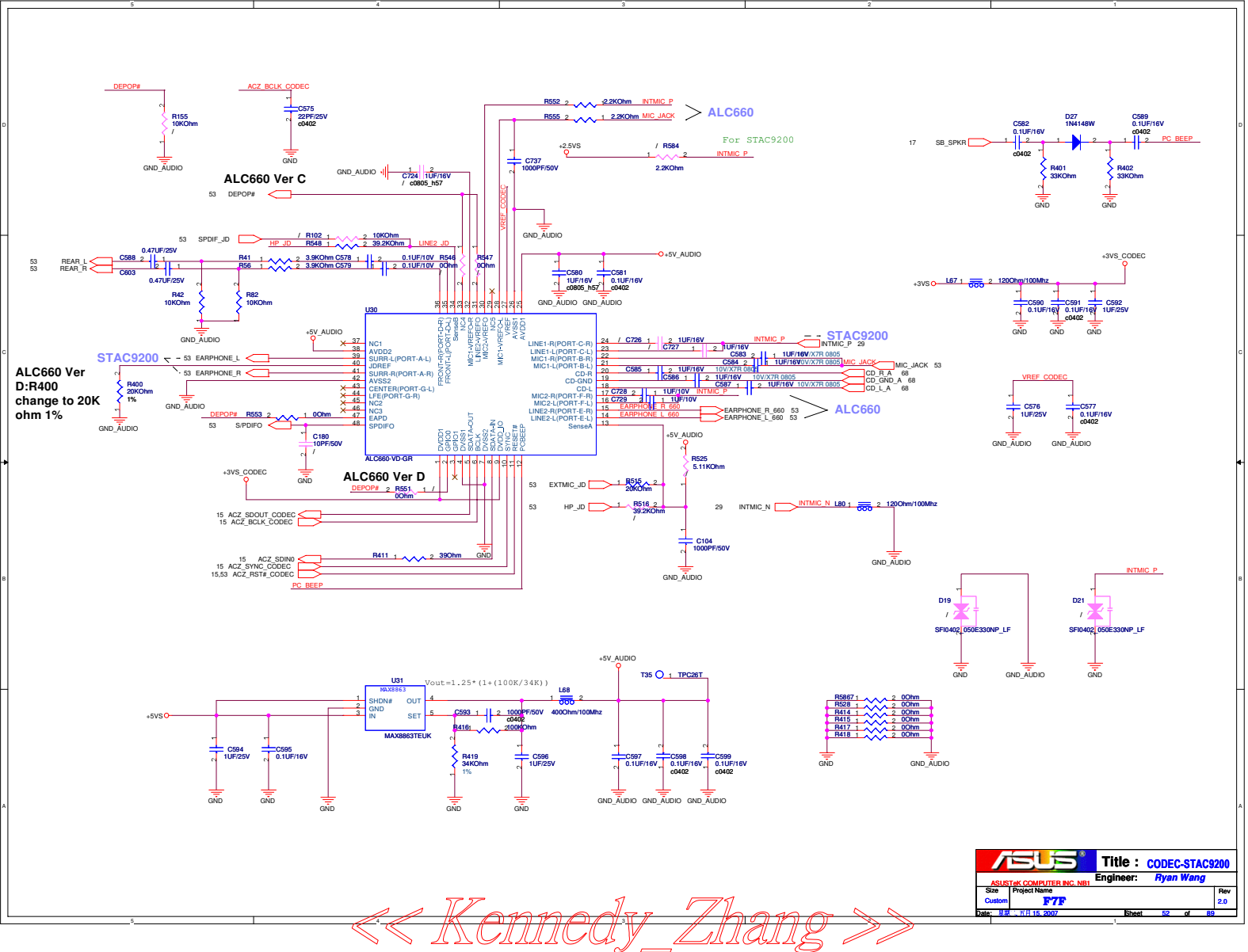
		Title :	
ASUSTeK COMPUTER INC		Engineer: <i>Ryan Wang</i>	
Size Custom	Project Name FTF	Rev 2.0	
Date: 星期五, 五月 15, 2007		Sheet 49 of 89	

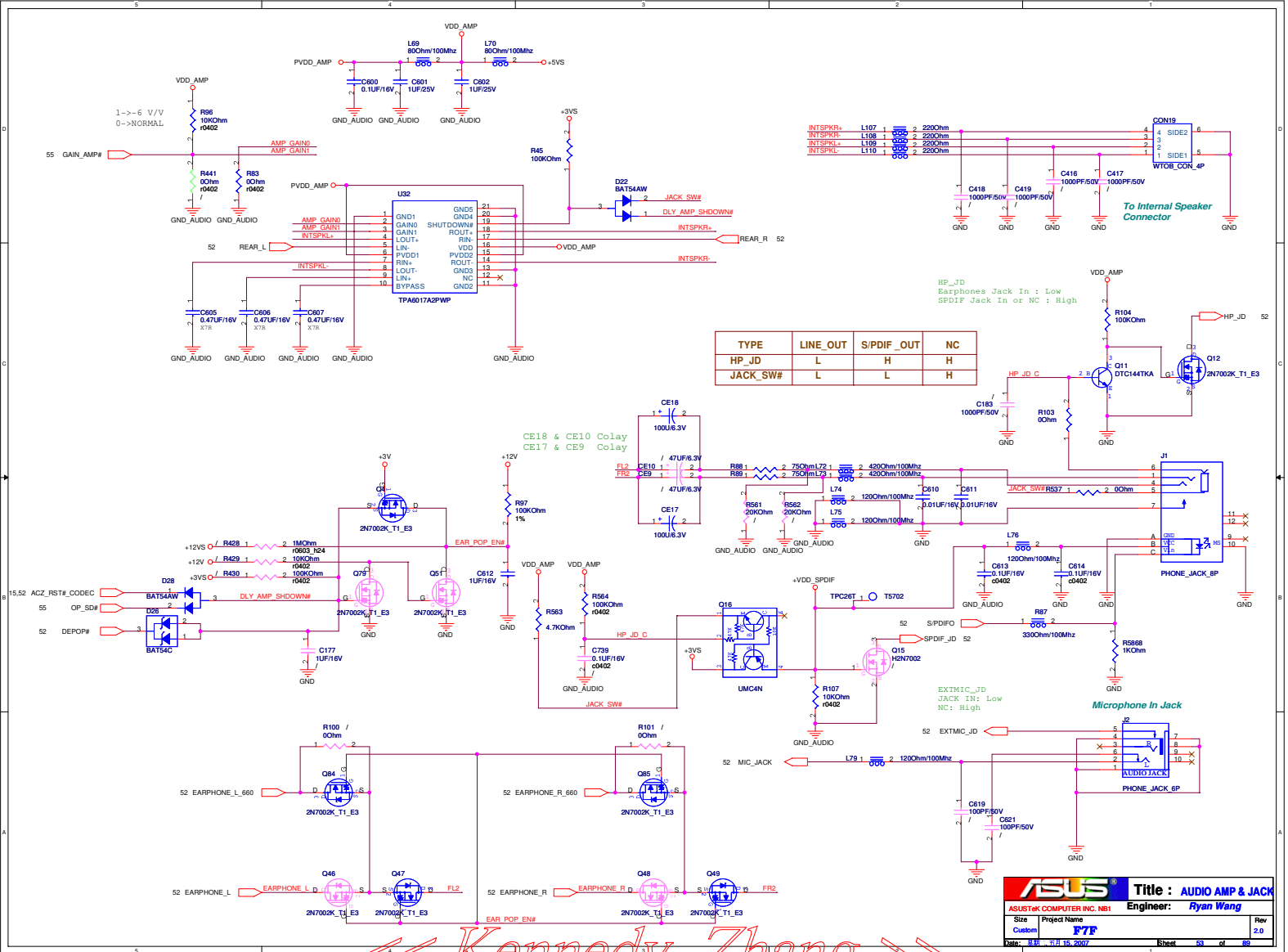


		Title : PCMCIA SOCKET A	
ASUSTeK COMPUTER INC		Engineer: <i>Ryan Wang</i>	
Size	Project Name	Rev	
Custom	F7E	2.0	
Date: 2007. 5. 15		Sheet 50 of 89	

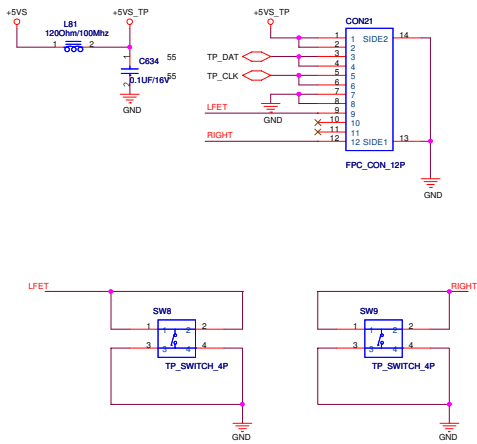
<< Kennedy_Zhang >>

		Title : F3J	
ASUSTeK COMPUTER INC		Engineer: Ryan Wang	
Size Custom	Project Name FTF		Rev 2.0
Date: 星期日, 五月 15, 2007		Sheet	51 of 89

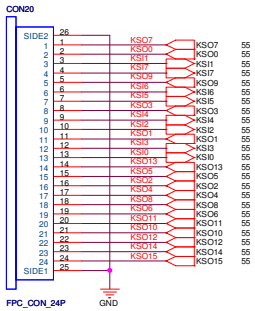




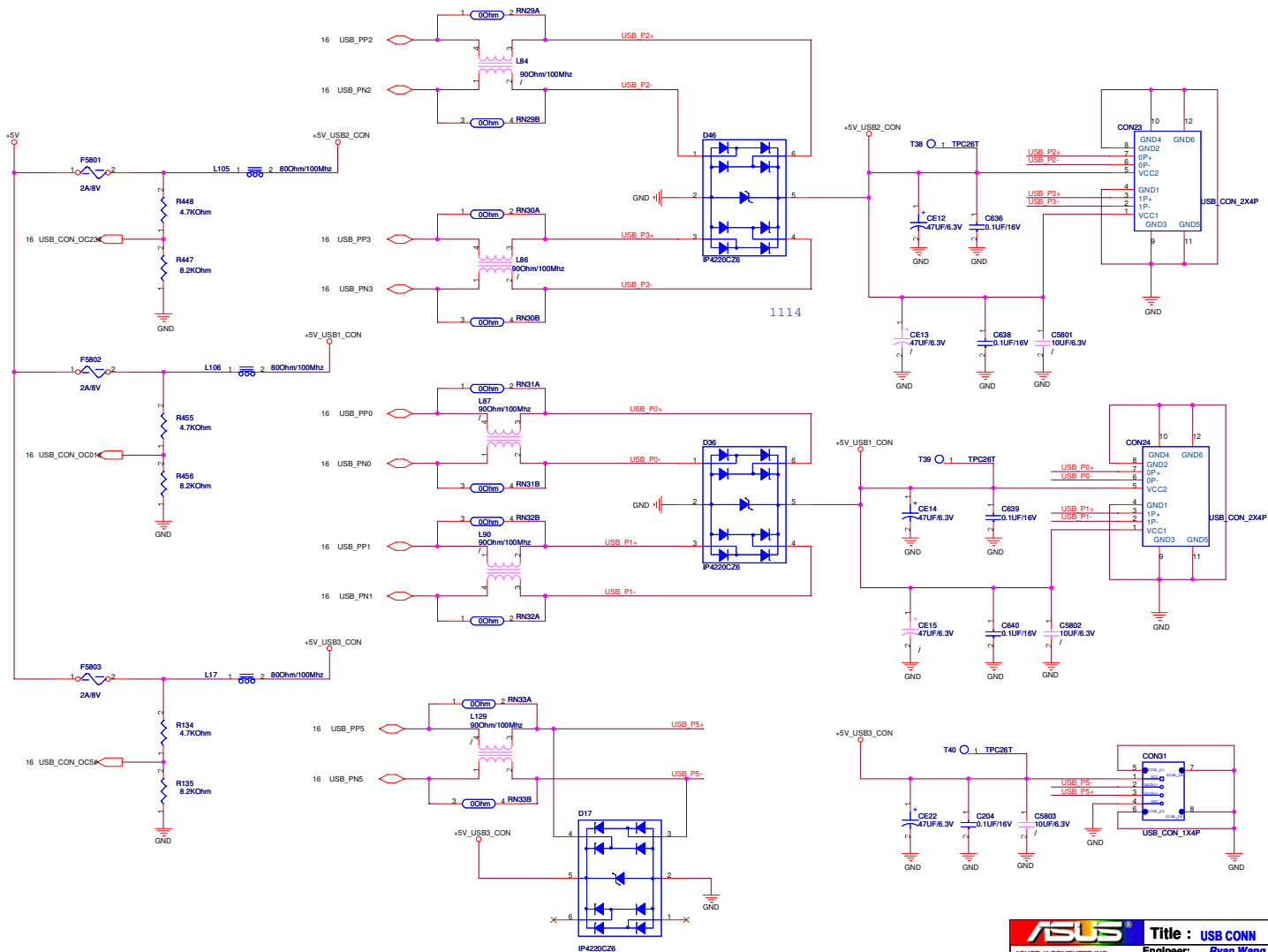
For Touch-Pad



For Keyboard(24Pin) None KID



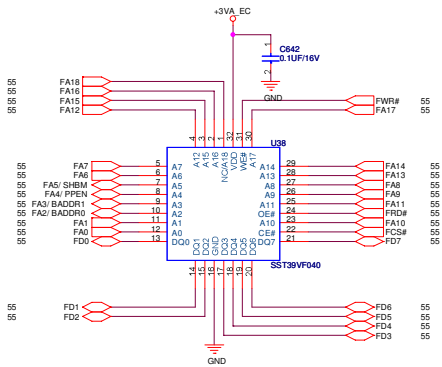
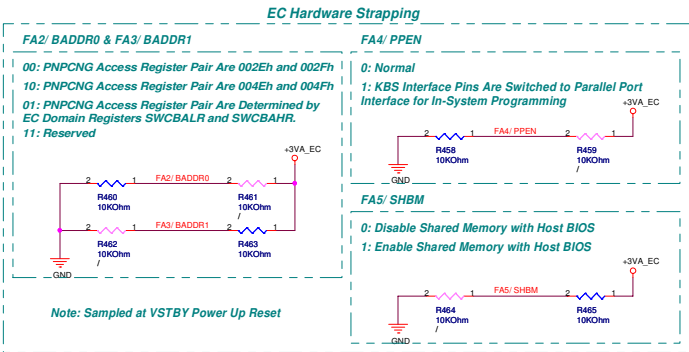
<< Kennedy_Zhang >>



« Kennedy_Zhang »

ASUS		Title : USB CONN	
ASUSTek COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/15/2007	Sheet: 58	of 89	

ISA ROM

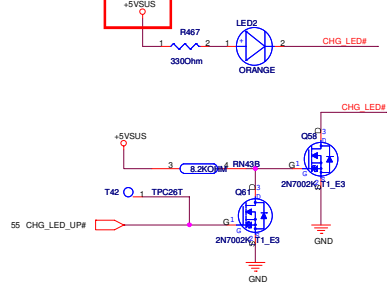


<< Kennedy_Zhang >>

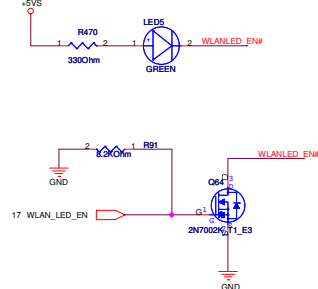
		Title : ISA ROM	
ASUSTEK COMPUTER INC. NE1		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/8/2002	8/8/15/2002	Sheet: 80	of 89

For BATTERY LED

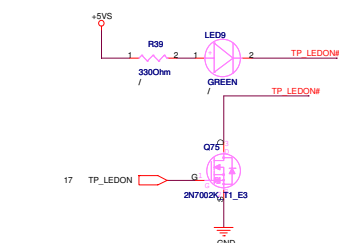
2/13 change



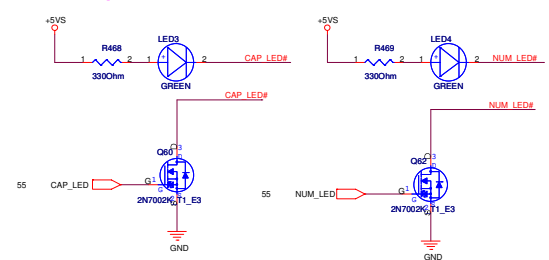
For WireLess LED



for Touch Pad



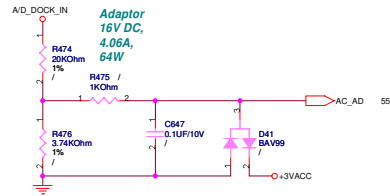
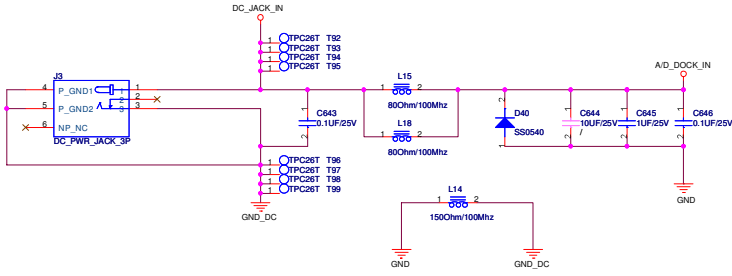
for Num Lock



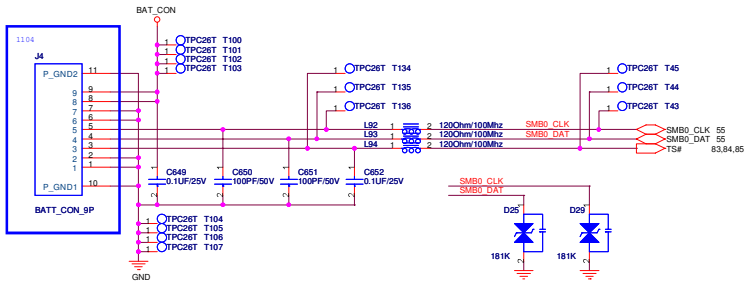
		Title : LED	
ASUSTeK COMPUTER INC		Engineer: Ryan Wang	
Size Custom	Project Name F7F		Rev 2.0
Date: 四月 15 2007		Sheet	62 of 89

<< Kennedy_Zhang >>

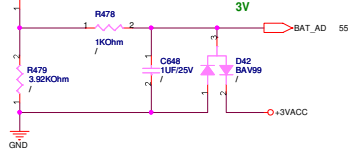
DC IN



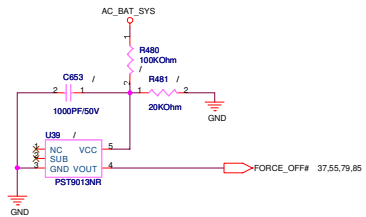
BAT IN



16.8V



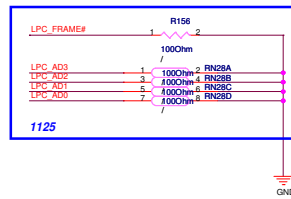
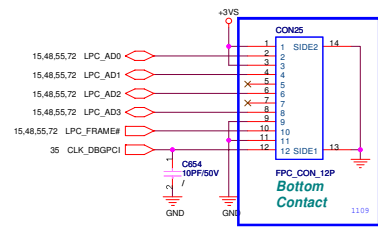
Without Battery & Pull out Adapter



<< Kennedy_Zhang >>

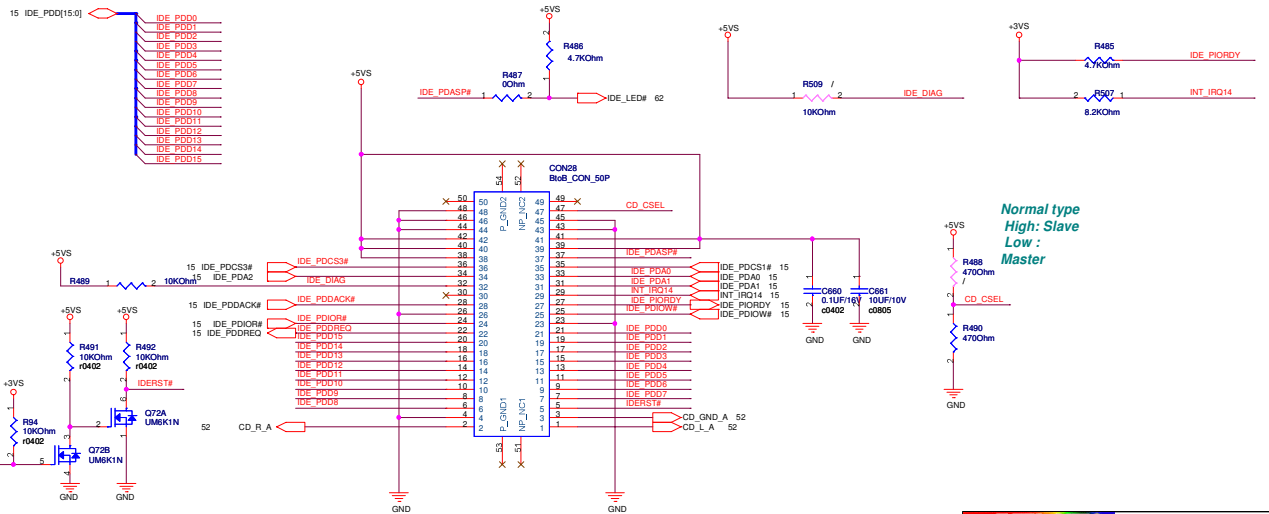
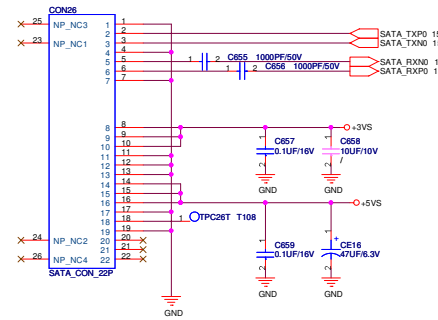
ASUS		Title : DC & BAT IN	
ASUSTeK COMPUTER INC. NE1		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	2.0	
Date: 8/15/2007	Sheet: 84	of	89

For Debug



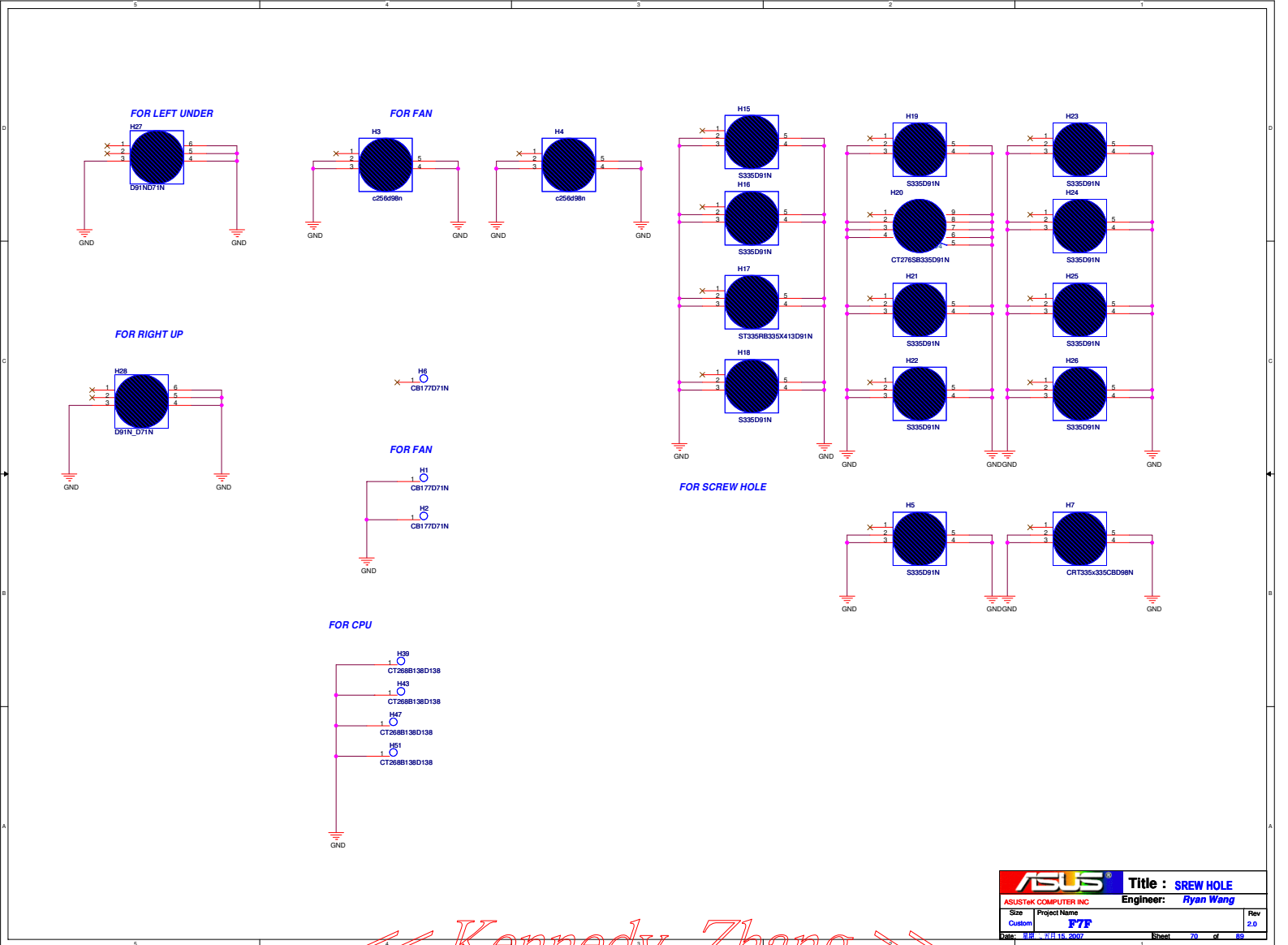
<< Kennedy_Zhang >>

ODD



Normal type
High: Slave
Low :
Master

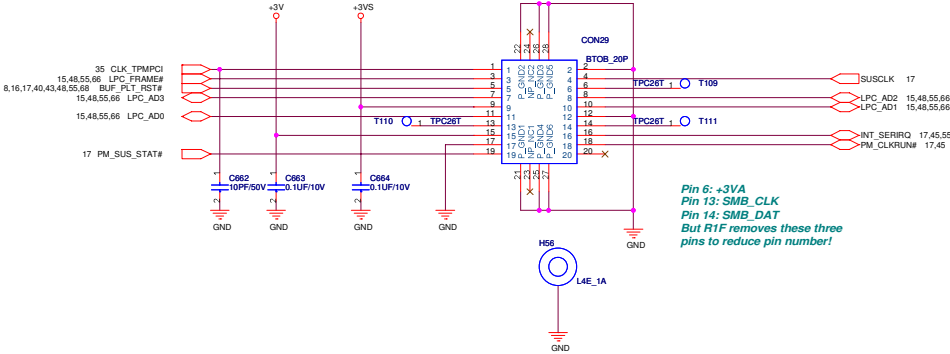
<< Kennedy_Zhang >>



<< Kennedy_Zhang >>

		Title : SREW HOLE	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name:	Rev	
Custom	FTF	2.0	
Date: 8/8/2007		Sheet	70 of 89

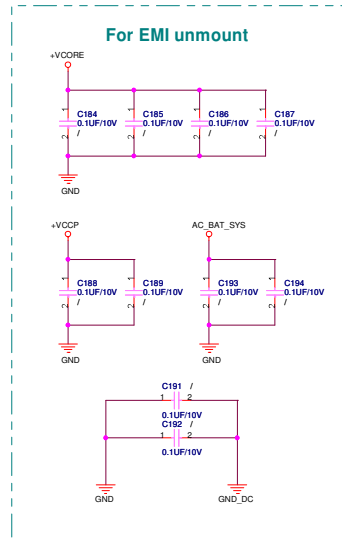
For TPM Module



Pin 6: +3VA
Pin 13: SMB_CLK
Pin 14: SMB_DAT
But R1F removes these three pins to reduce pin number!

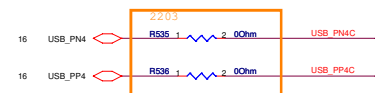
<< Kennedy_Zhang >>

ASUS		Title : TPM	
ASUSTeK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	PTF	2.0	
Date: 8/15/2007	Sheet: 72	of 89	



<< Kennedy_Zhang >>

ASUS		Title : EMI	
ASUSTEK COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	PTF	2.0	
Date: 8/8/2007	8/8/15/2007	Sheet 74	of 89

[illegible]

For Side SW

3V_{A_EC}

R493 10KOhm

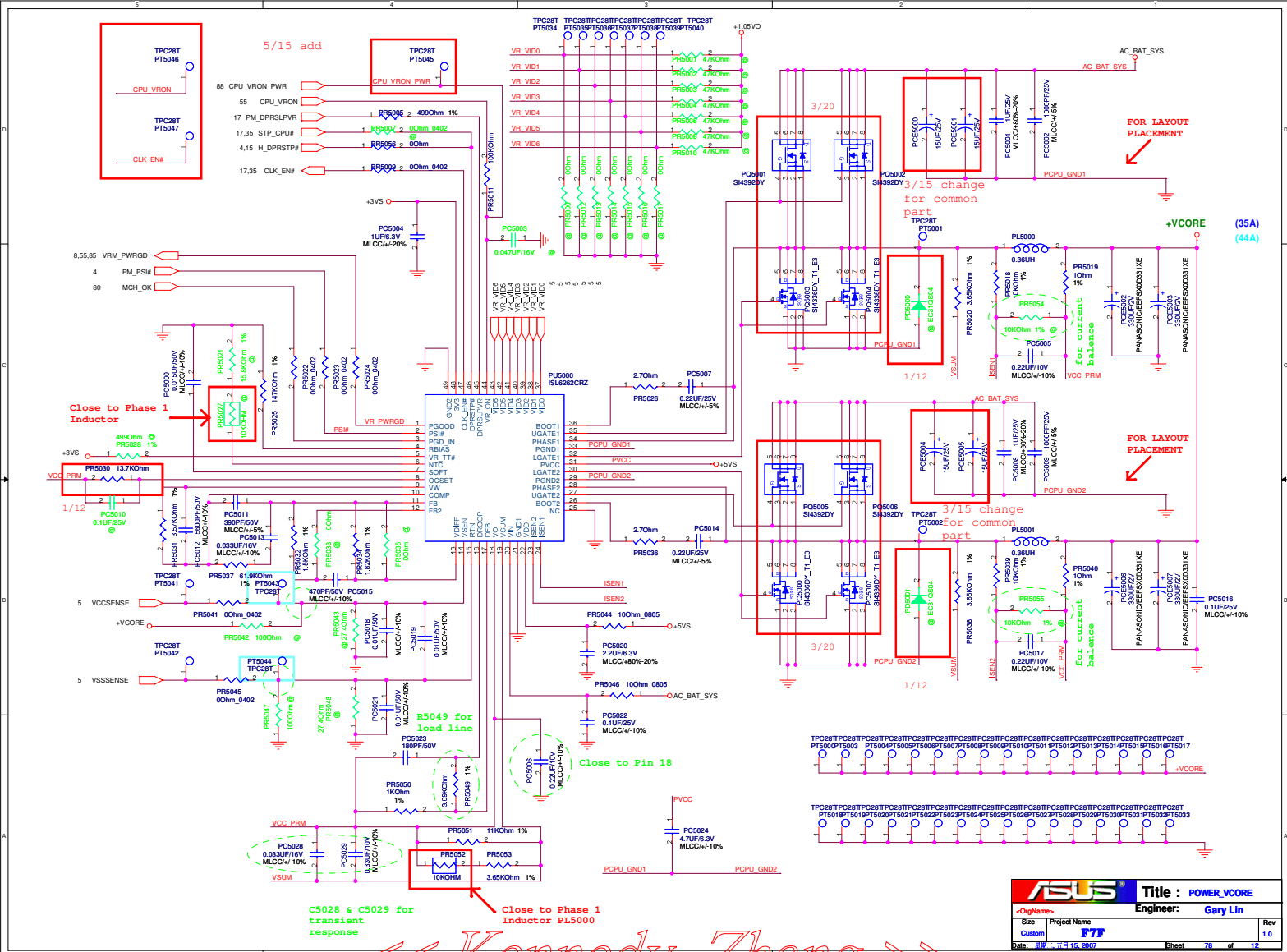
R494 330Ohm

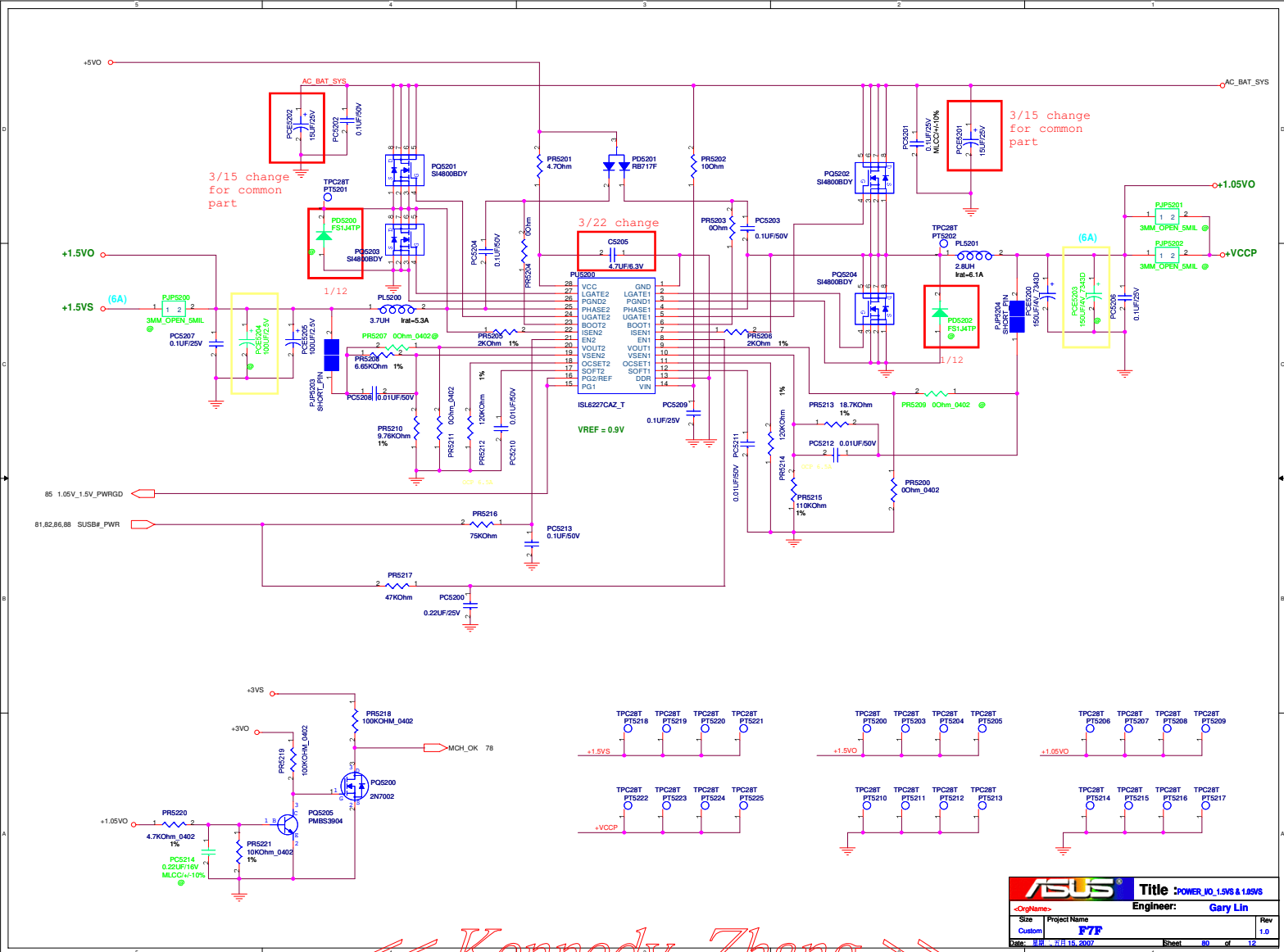
C495 1uF16V

43.55 RF_ON_SW

SW10 SLIDE_SWITCH_6

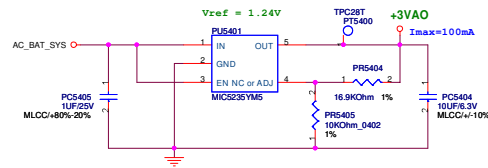
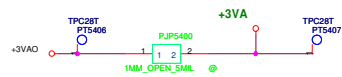
GND



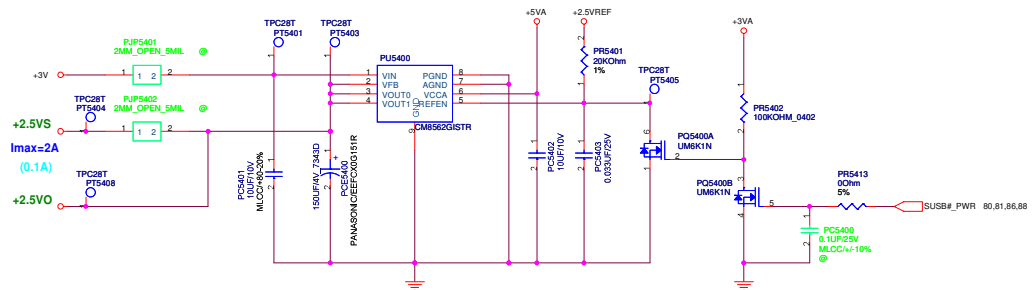


<< Kennedy_Zhang >>

+3VAO



+2.5VS

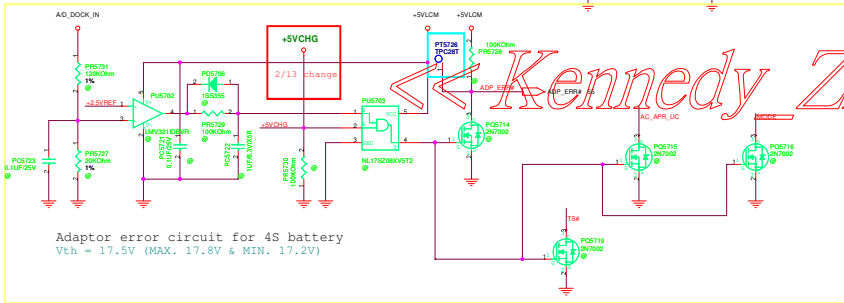


ASUS		Title : POWER_IO_+3VA & +2.5V	
Engineer: Gary Lin		Rev	
Size	Project Name	Rev	1.0
Custom	PTF	Date: 8/15/2002	
Sheet 82 of 12			

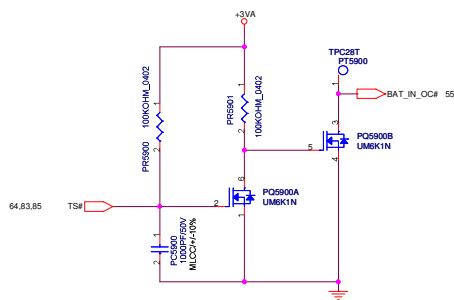
<< Kennedy_Zhang >>

POWER PATH & BAT_LEARN

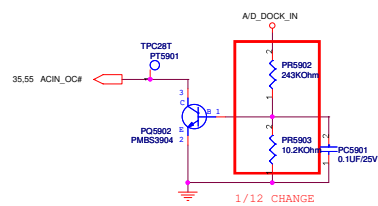
- AC_IN Threshold 2.54Vmax AD_DOCK_IN
=> 17.44V active
Adaptor (Vmax) = (0.075V/Resistor(ADH)(VCL5/VREF)
Resistor(ADH) = 20 ohm
VCL5 = 3.65V
=> Resistor(ADH) = 20 ohm
=> Constant Power = 19.13.27 = 62.13W
=> RDS(on) = 0.00174 ohm
=> RDS(on) = 0.00174 ohm
- Charge Current Ichg = (0.075V/Resistor(CHO)(VCL5.8V)
Resistor(CHO) = 0.05 ohm
VCL5 = 3.65V
=> Ichg = 2.51A
VCL5 = 1.88V => Ichg = 1.4A
- Vbat = Cell * (Vref - 1.9V) / 0.52
VCL5 = 1.88V
=> Vbat = 4.2V (4.2018V)
- Mode pin : Vmode = 2.5V (pin 1) LDO pin 1 => 4 Cuts
2.5 - Vmode = 1.6V (Shading) => 3 Cuts
2.5 - Vmode (pin to GND) => Learning mode
- VICTL = 0.8V or DCIN = 7V => Charger Disable
- Precharge current = 150mA
VICTL_pre2p = 0.188V => Ichg = 157mA
VICTL_pre1p = 0.179V => Ichg = 149mA



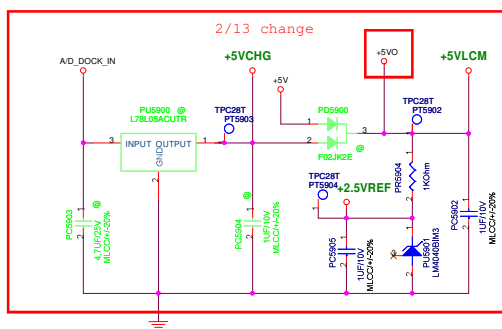
BATTERY IN DETECT



ADAPTER IN DETECT



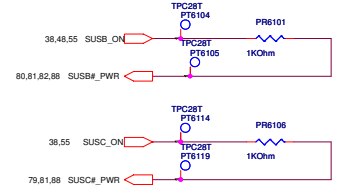
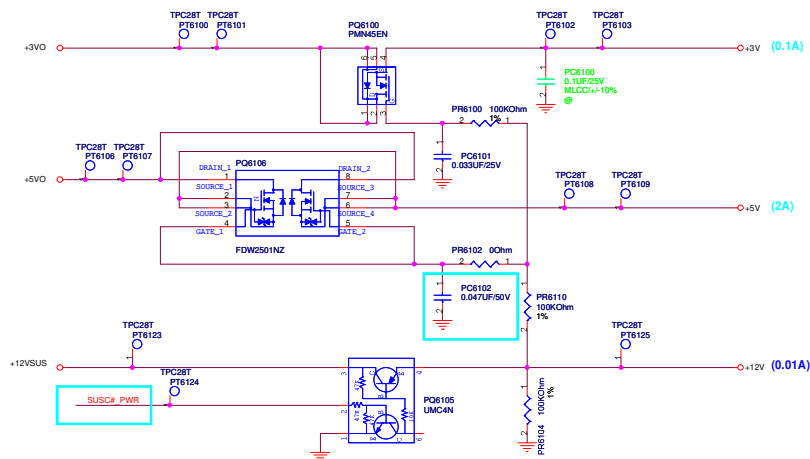
+5VLCM, +5VCHG & +2.5VREF



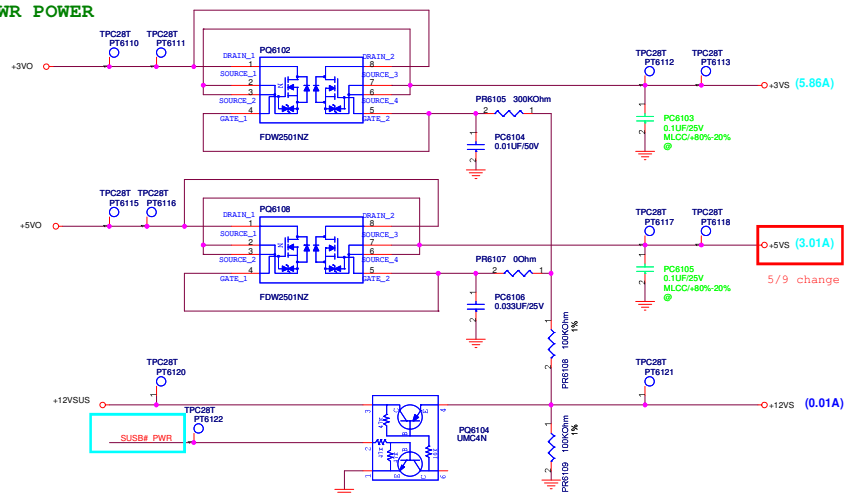
ASUS		Title : POWER_DETECT	
<OrigName>		Engineer: Gary Lin	
Size	Project Name	Rev	
Custom	PTF	1.0	
Date: 8/15/2002	Sheet 84	of 12	

<< Kennedy_Zhang >>

SUSC#_PWR POWER

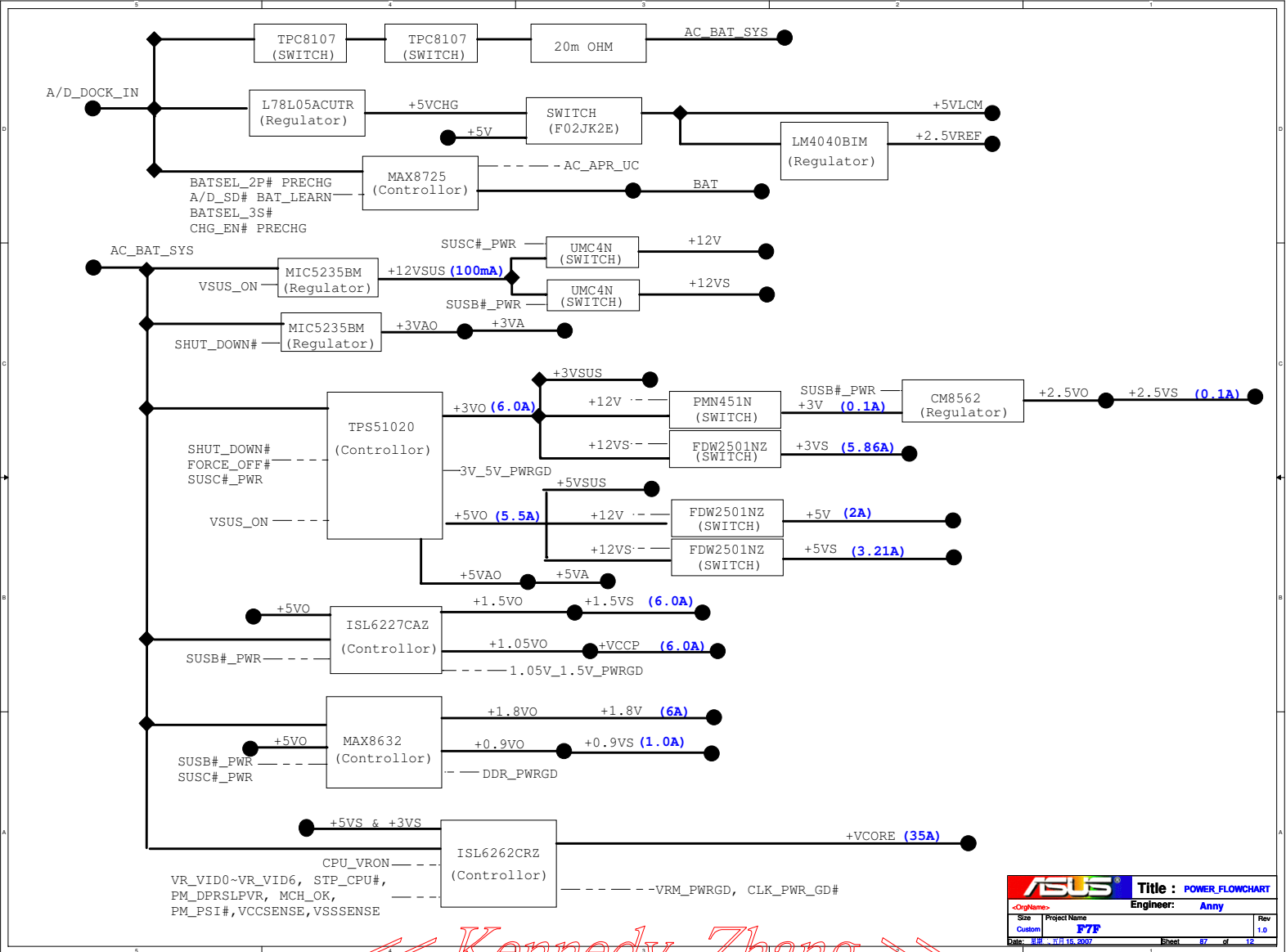


SUSB#_PWR POWER



ASUS		Title : POWER_LOAD_SWITCH	
SUSC#_PWR POWER		Engineer: Gary Lin	
Size	Project Name	Rev	
Custom	FTF	1.0	
Date: 8/15/2007	Sheet 86 of 12		

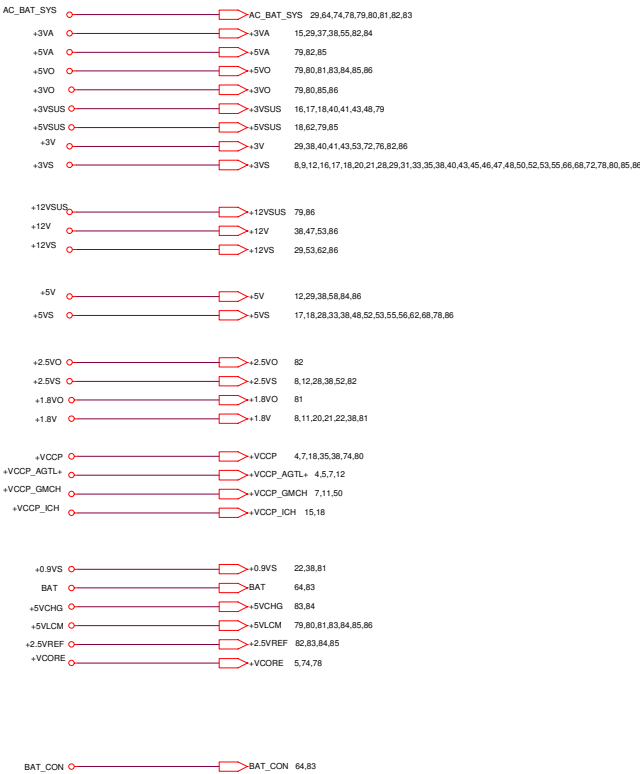
<< Kennedy_Zhang >>



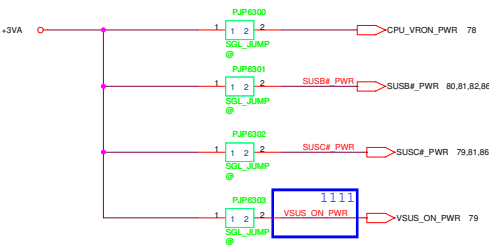
<< Kennedy_Zhang >>

**Title : POWER_FLOWCHART**

Engineer: Anny		Rev
Size	Project Name	1.0
Custom	FTF	
Date: 8/18/2007	Sheet 87 of 12	



FOR POWER TEST



<< Kennedy_Zhang >>

Rev	Date	Description
1.0	11/28/2005	1. Initial release.
1.1	01/13/2006	1. For RF Switch disable, BT can't detect by Wireless console issue, add BT detect pin. Page 17,74. 2. Change C676,C677 Package size. Page 41. 3. Fix 1394 connector pin reverse issue. Page 46. 4. Fix Battery connector ping reverse issue. Page 64. 5. Add Capacity CE20, C53, C54, C55, C56, C57, C58, for 3DMark screen become to one color and hang issue. Page 11. 6. Change L51 Package size. Page 29. 7. Change X1 & X6 for cost down. Page 15,55. 8. Remove Fan 3 pin design circuit. Page 33,55. 9. Fix debug connector pin reverse issue. Page 66. 10. Fix LID Switch can't disable backlight issue, change NB BL_EN net name to BKLTEN. Page 9,29. 11. Fix VSUS_ON_PWR and SUSCPWR Net connect issue. Page 88. 12. Remove Cardbus PME signal for R5C832. Page 45. 13. Add AC Adaptor Voltage Error Signal to EC, and EC will show the abnormal by LED. Page 55. 14. Remove L107,D37,CE17,CE18 for cost down. Page 58. 15. Change Connector CON15,J2,CON11,CON17,CON27,CON22&CON7&CON8,J3&J4. Page 28,53,41,48,68,31,22,64. 16. Modify Audio schematic Change C578,C579 to 0.47UF and remove R403,R404,R405,R398,R399,R408,R409,R410,C603,C604. Page 52,53. 17. Change R351 to 22 ohm. Page 15. 18. Add C59 for EMI. Page 47. 19. Charger circuit add component. Page 83. 20. Change TPLED_ON GPIO pin from GPIO19 to GPIO14 and R55 10K ohm pull low. Page 17. 21. Depop circuit remove OP_SD# control function. Page 53,55. 22. Add Mic. Preamplifier circuit. Page 52. 23. Change CE9,CE10 position for pop noise. Page 53. 24. Add buffer U5 for HSYNC and VSYNC of CRT signal. Page 9,28. 25. Add RN28,R156 near debug connector to be LPC terminal resistor. Page 66. 26. Change R233,R234,R235,R236 to L107,L108,L109,L110 for EMI. Page 53.
2.0		1. Colay Audio circuit for STAC9200 and ALC660. Remove Mic. Pre-Amplifier circuit. Page 52,53. 2. Modify minicard latch connector to nut.(H57,H58) Page 43. 3. Change SATA Connector. Page 68. 4. Add +3V LDO circuit for TV_DAC Power. Page 12.

Rev	Date	Description
		5. Remove R96,R97,R524 for Fan circuit. Page 33. 6.Add some test point for factory request. 7.Change BT_ON# from SB GPIO to EC GPIOE7. Page 17,55. 8.Add MOS for EC leakage of electricity issue.Page 55. 9.Change BT logic power from +3VS to +3V for WHQL S3 test .Page 76. 10.For Lan -ve test issue,add terminal resistor near the transformer .Page 41. 11.For ACZ RST will let Sigmatel codec GPIO0 high issue, add C177 to deplay depop time to avoid pop from speaker .Page 53.
2.1	04/24/2006	1.Change internal Mic. bias voltage from +5V_AUDIO to +2.5VS. Page 52. 2.Add D52,D53 to protect EC. Page 55. 3.Add C178,C179 for new card clock. Page 48. 4.Add H1,H2 for Fan. Page 70. 5.Remove RN2,RN3 for Vcore VID. ESD Request. Page 5. 6.Add R87 for moat issue. Page 53.
2.2	05/25/2006	1.Change CarBus R5C841 1394 Pull High from TPB to TPA. Page 50. 2.Add U46,C742,C743,R572,R573,R574 LDO circuit for internal Mic. Pull high +2VS. Add R575,C745 for 3.Remove L17,L64,L84,L86,L87,L90 Co-Lay circuit. Page 76,48,58.
2.3	07/24/2006	1.Change DDR2 VREF Voltage from 0.9VS to 0.9V. Add L53,PR5317 from Power IC and R753,R754,C202,C203 from 1.8V. Page 22,81. 2.Change C59 connect from MS_DAT0 to MSCLK. Page 47. 3.Add R88,R89 for VISTA cost down with 100uF. Page 53. 4.For EMI Request, add C180 to SPDIF signal and near the codec. Page 52.

		Title : History	
ASUSTek COMPUTER INC		Engineer: Ryan Wang	
Size	Project Name	Rev	
Custom	FTF	1.0	
Date: 8/8/2007	8/8/15/2007	Sheet 89	of 12

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