A8J/F SCHEMATIC

PAGE	Content
	SYSTEM PAGE REF.
4	YONAH CPU (1)
5	YONAH CPU (2)
6	CPU CAP/THERMAL SENSOR
7	CLOCK GEN.
8	Calistoga--CPU
9	Calistoga--PCIE
10	Calistoga--DDR2
11	Calistoga--POWER
12	Calistoga--GND
13	Calistoga--Strap
14	DDR2 SO-DIMM_0
15	DDR2 SO-DIMM_1
16	DDR2 ADDRESS TERMINATION
17	VGA CONN
18	LVDS & INVERTER CONN
19	CRT & TV_OUT
20	ICH7M--CPU,IDE,AUDIO
21	ICH7M--PCI,PCI-E,USB
22	ICH7M--GPIO
23	ICH7M--VCC,GND
24	HDD & CD-ROM CONN
25	USB PORTS
26	SUPER I/O LPC47N217
27	BIOS & FIR
28	KBC 38857
29	SM BUS & POWER PORT
30	PCI-E--GIGA_LAN RTL8111B
31	PCI-E--MINI CARD
32	PCI-E--NEW CARD
33	PCI--1394,CardReader R5C832
34	PCI--4 IN1 CON
35	PCI--Empty
36	AUDIO CODEC AD1986A
37	AUDIO AMP G1420
38	MDC,B/T,TPM & DISCHG,HOLE
39	DVI CONN
40	ACIN, BAT, FAN, I/O PORT
41	SW & LED & TP
42	POWER-ON SEQUENCE
43	HISTORY
44	I/O PORT

PAGE	Content
	POWER PAGE REF.
50	50_POWER_VCORE
51	51_POWER_SYSTEM
52	52_POWER_I/O_1.8V & 1.05VS
53	53_POWER_I/O_+1.5VS
54	54_POWER_I/O_VTT & +2.5VS
55	55_POWER_VGA_CORE(Empty)
56	56_POWER_VGA_RAM(Empty)
57	57_POWER_CHARGER
58	58_POWER_PIC
59	59_POWER_SELECTOR
60	60_POWER_PROTECT
61	61_POWER_LOAD SWITCH
62	62_POWER_FLOWCHART
63	63_POWER_SIGNAL

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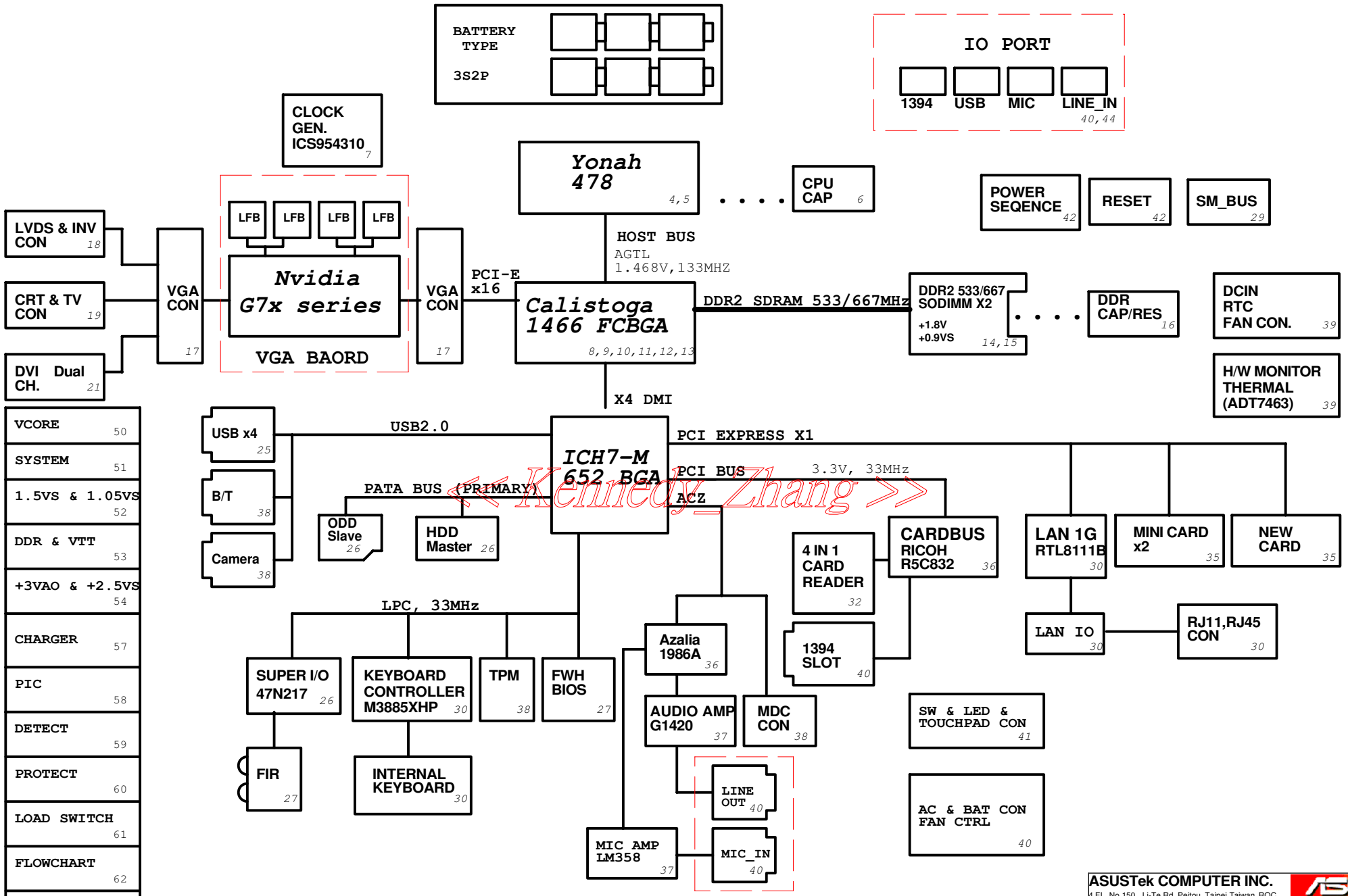
Title	PAGE REF.	
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 1 of 63	

A8J/F Yonah/Calistoga BLOCK DIAGRAM



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Title: BLOCK DAIGRAM		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 2 of 63	

PCI Device	IDSEL#	REQ/GNT#	Interrupts	PC/PCI
Chipset (Host to PCI)	(AD30 internal)	n/a		
Integrated LAN	AD24(NO USE)			
1394	AD16	0	A	
4 IN 1		0	B	

SM_BUS ADDRESS : Thermal MAX6657 = 1001100x (98h)
CLK GEN. = 1101001x (D2h)
DDR_SODIMM0 = 1010000x (A0h)
DDR_SODIMM1 = 1010010x (A4h)
VGA_Thermal IC = 1001100x (9Ah)

ICH7M_GPIO		Use As	Signal Name	Power
GPIO 00	i	GPI	PM_BMBUSY#	+3VS
GPIO 01	i	GPI	PCI_REQ#5	+3VS
GPIO [5:2]	i	GPI	PCI_INT[E:H]#	+3VS
GPIO 06	i	GPO	BACK_OFF#	+3VS
GPIO 07	i	GPI	RF_SW_OFF#	+3VS
GPIO 08	i	GPI	EXTSMI#_3A	+3VSUS
GPIO 09	i	GPI	PD_DET#	+3VSUS
GPIO 10	i	GPI	CHG_FULL_OC	+3VSUS
GPIO 11	i	Native	SMB_ALERT#	+3VSUS
GPIO 12	i	GPI	KB_SCI#	+3VSUS
GPIO 13	i	GPI	SIO_SMI#	+3VSUS
GPIO 14	i	GPI	PD_UnDock#(PWRLMT#)	+3VSUS
GPIO 15	i	GPO	802_LED_EN#	+3VSUS
GPIO 16	O	0 GPO	PM_DPRSLPVR	+3VS
GPIO 17	O	1 GPO	PCI_GNT#5	+3VS
GPIO 18	O	1 GPO	STP_PCI#	+3VS
GPIO 19	i	1 GPI	PD_RDY#	+3VS
GPIO 20	O	1 GPO	STP_CPU#	+3VS
GPIO 21	i	1 GPO	PD_SIO_RST#	+3VS
GPIO 22	i	1 Native	PCI_REQ#4	+3VS
GPIO 23	i	1 Native	LPC_DRQ#1	+3VS
GPIO 24	O	0 GPO	PD_EN#	+3VSUS
GPIO 25	O	1 GPO	CB_SD#	+3VSUS
GPIO 26	O	0 GPO	OP_SD#	+3VSUS
GPIO 27	O	0 GPO	WLAN_ON#	+3VSUS
GPIO 28	O	0 GPO	1Hz	+3VSUS
GPIO 29	i	0 Native	USB_OC#5	+3VSUS
GPIO 30	i	0 Native	USB_OC#6	+3VSUS
GPIO 31	i	0 Native	USB_OC#7	+3VSUS
GPIO 32	O	1 GPO	PM_CLKRUN#	+3VS
GPIO 33	O	1 GPO	BT_ON/OFF#	+3VS
GPIO 34	O	0 GPO	FWH_WP#	+3VS
GPIO 35	O	0 GPO	SATACLKREQ#	+3VS
GPIO 36	i	0 GPO	BT_LED_EN#	+3VS
GPIO 37	i	0 GPI	PCB_ID0	+3VS
GPIO 38	i	0 GPI	PCB_ID1	+3VS
GPIO 39	i	0 GPI	PCB_ID2	+3VS
GPIO [40:47]		NA	NA	NA
GPIO 48		Native	PCI_GNT#4	+3VS
GPIO 49		Native	H_PWRGD	+VCORE

M38857_GPIO	USE_AS	SIGNAL_NAME	Power
P23	GPO	MSK_INSTKEY#	+3V
P22	GPO	BAT_LEARN	+3V
P21	GPO		+3V
P20	GPO	KBCRSM	+3V
P42	GPO	WATCHDOG	+3V
P43	GPI	SWDJ_EN	+3V
P44	GPO	KBCPURST_3Q	+3V
P45	GPO	KBC_GA20	+3V
P46	GPO	KBSCI_3Q	+3V
P47	GPI	PM_CLKRUN#	+3V
P50	GPI	BAT_LLOW#_OC	+3V
P51	GPI	FAN1_TACH	+3V
P52	GPO	KBDDT0	+3V
P53	GPO	KBDDT1	+3V
P54	GPI	LID_KBC#	+3V
P55	GPI	BAT_IN_OC#	+3V
P56	GPO	FAN1_DC	+3V
P57	GPO	ADJ_BL	+3V
P67	GPI	NEWCARD_OFF#	+3V
P66	GPI	PANLOCK_#	+3V
P65	GPI	MARATHON_#	+3V
P64	GPI	ACIN_OC#	+3V
P63	GPI	NEWCARD_DET#	+3V
P62	GPI	WIRELESS_#	+3V
P61	GPI	INTERNET_#	+3V
P60	GPI	BLUETOOTH_#	+3V
P76	GPIO	SMD_BAT	+3V
P77	GPIO	SMC_BAT	+3V
P27	GPO	SCR_LED#	+3V
P26	GPO	NUM_LED#	+3V
P25	GPO	CAP_LED#	+3V
P24	GPO	SET_PCIRSTNS#	+3V
P40	GPO	KBC_EXTSMI	+3V
P41	GPO	PANLOCK_LED	+3V

47N217_GPIO	USE_AS	SIGNAL_NAME	Power
GPIO10	GPI	NONE	+3VS
GPIO11	GPO	NONE	+3VS
GPIO12	GPO	NONE	+3VS
GPIO13	GPI	NONE	+3VS
GPIO14	GPI	NONE	+3VS
GPIO23	GPO	ATI_RST#	+3VS
GPIO40	GPI		+3VS
GPIO41	GPI		+3VS
GPIO40	GPI		+3VS
GPIO43	GPI		+3VS
GPIO44	GPI		+3VS
GPIO45	GPI		+3VS
GPIO46	GPI	VGA_DETEC#	+3VS
GPIO47	GPI		+3VS

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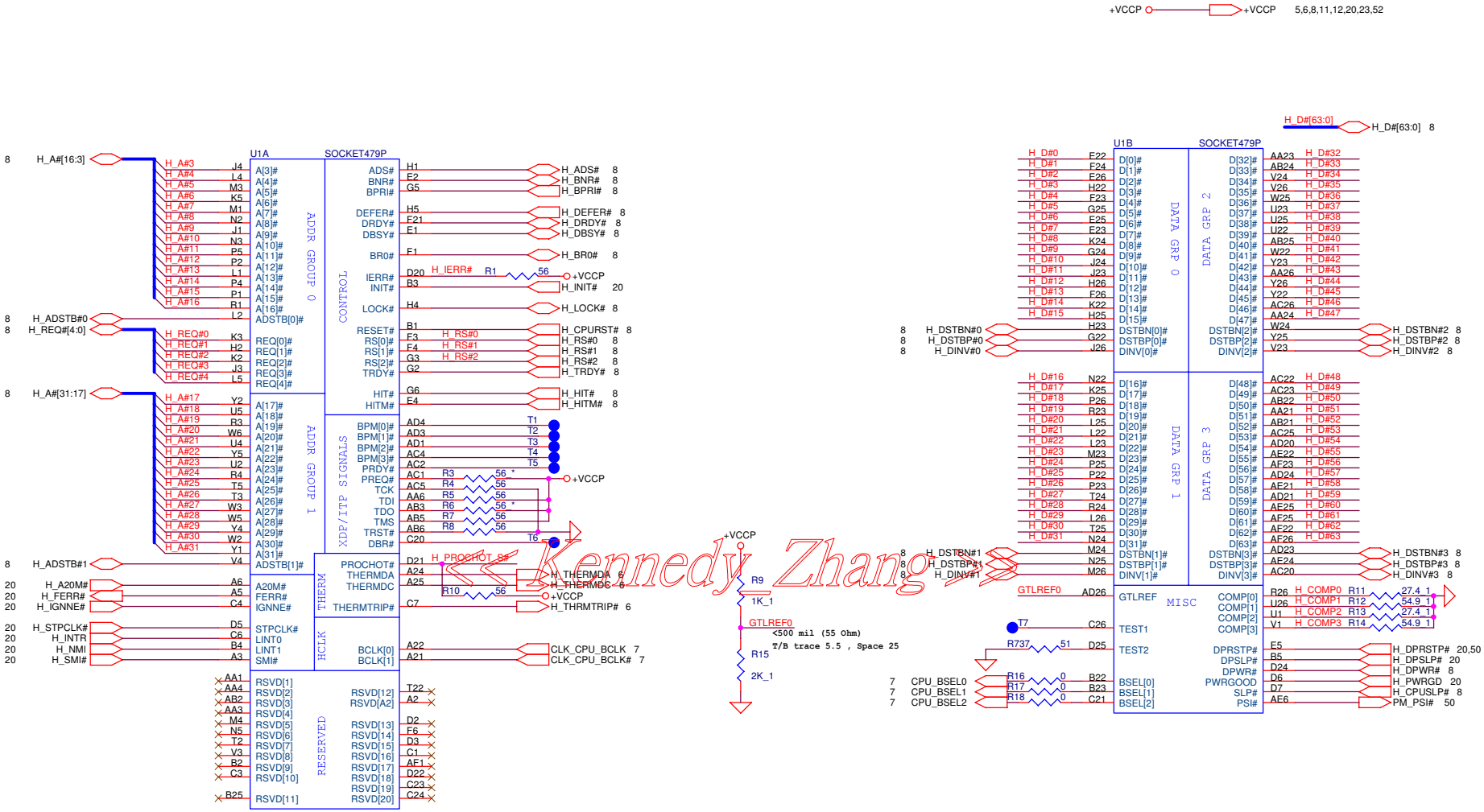
Size: Custom | Document Number: A8J/F | Rev: 2.0

Date: Wednesday, March 29, 2006 | Sheet 3 of 63



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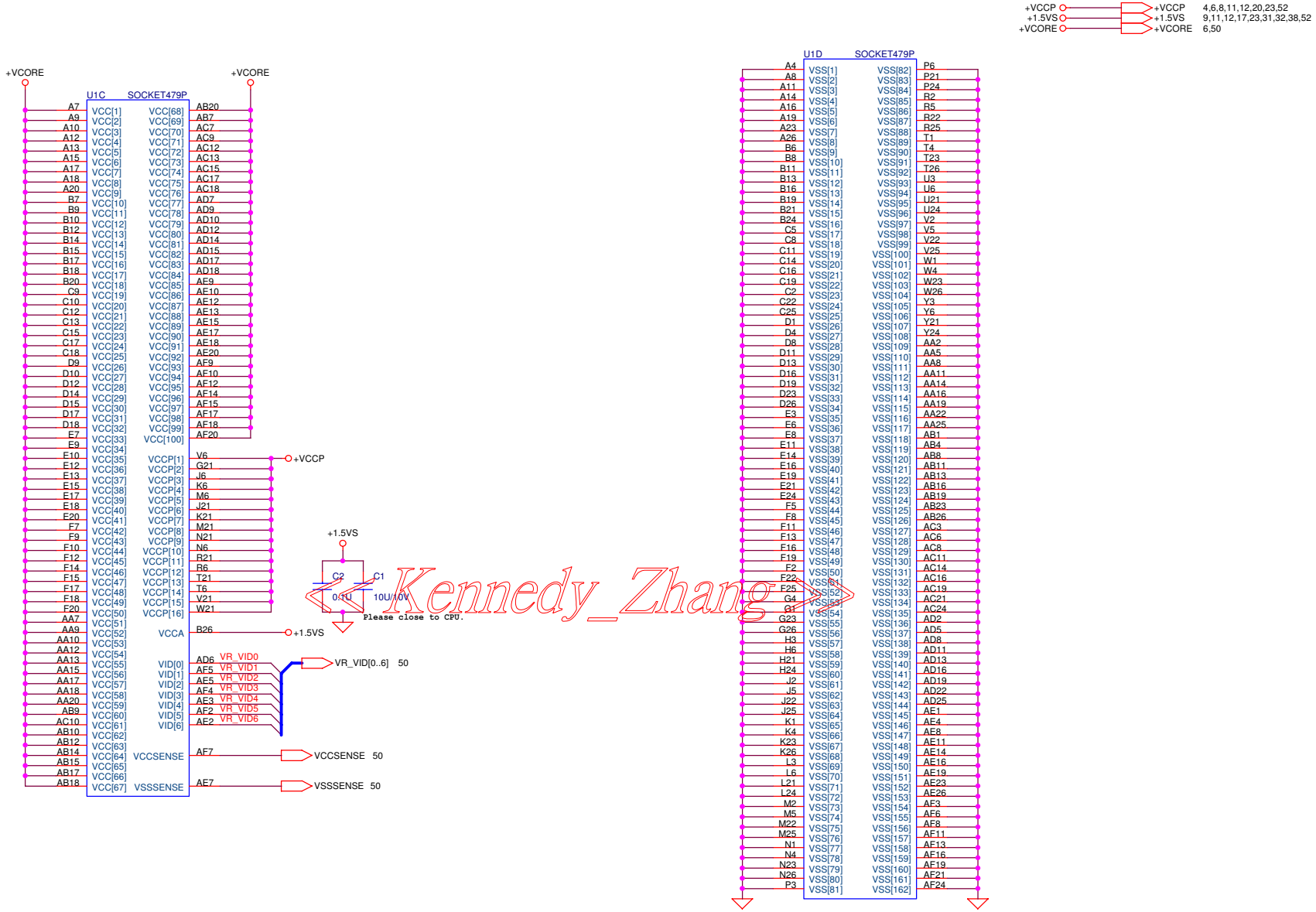
Title	**YONAH CPU1**
Size: Custom	Document Number: **A8J/F**
Rev	2.0
Date: Wednesday, March 29, 2006	Sheet 4 of 63



Title	YONAH CPU2
Size	Custom
Document Number	A8J/F
Rev	2.0
Date:	Wednesday, March 29, 2006
Sheet	5 of 63

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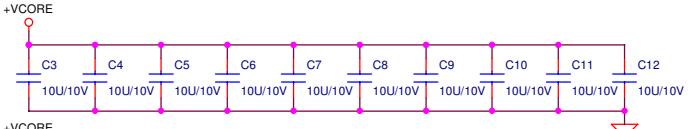

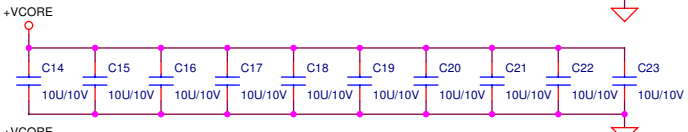

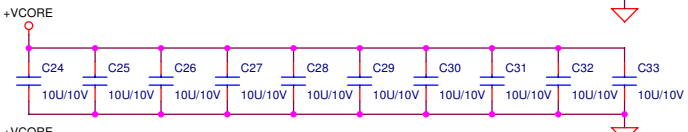

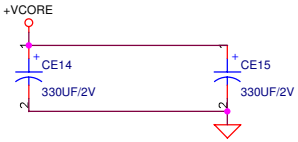

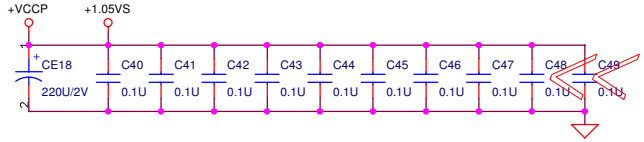

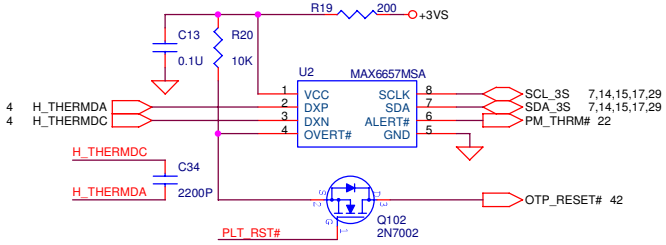

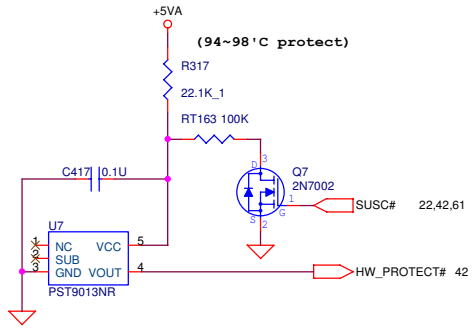

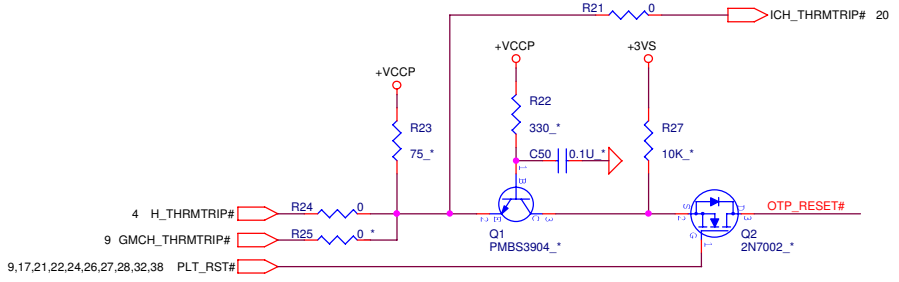

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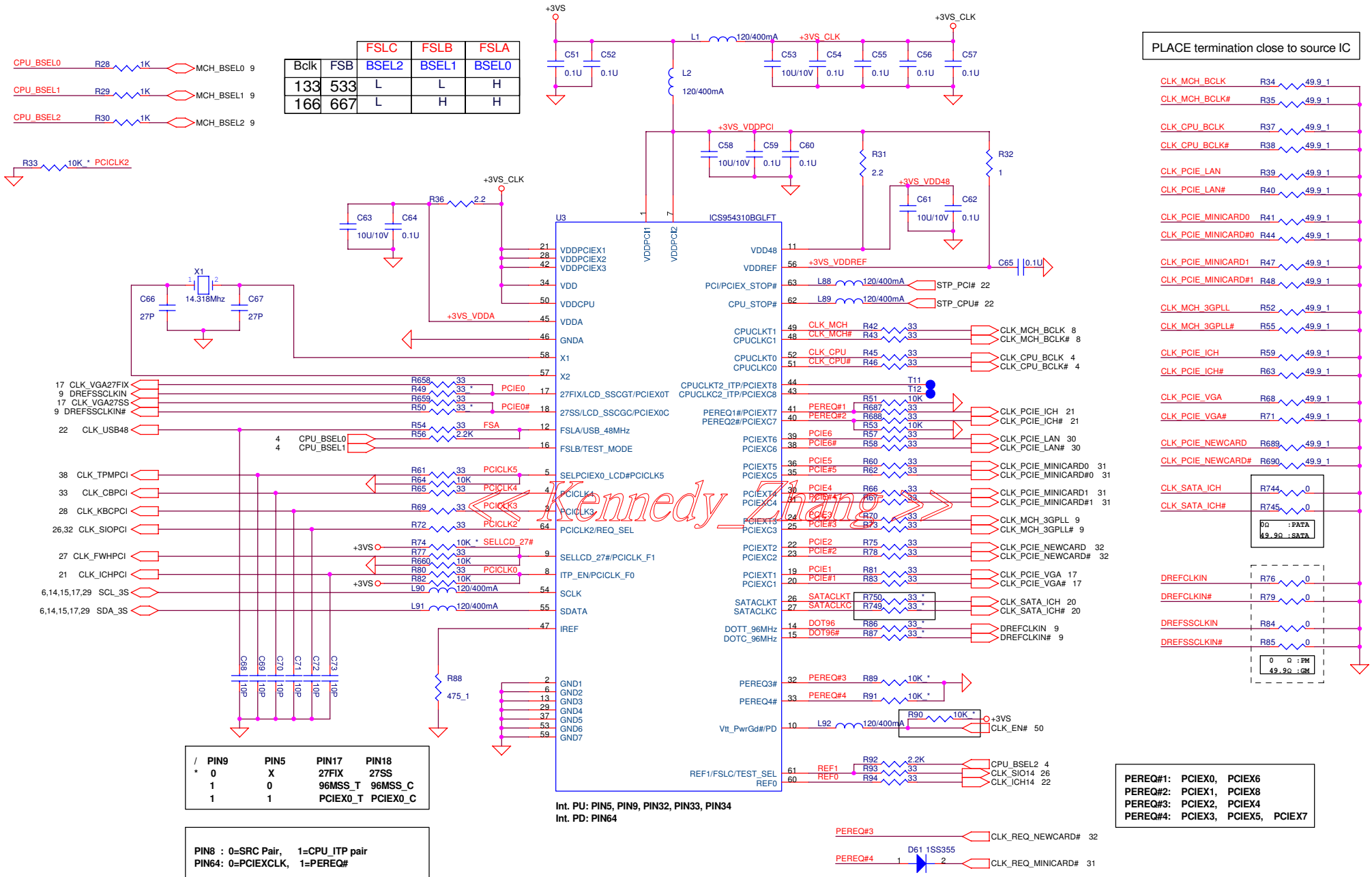
Title: CPU CAP,THERMAL SENSOR		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 6 of 63	



Bclk	FSB	FSLC BSEL2	FSLB BSEL1	FSLA BSEL0
133	533	L	L	H
166	667	L	H	H

/	PIN9	PIN5	PIN17	PIN18
*	0	X	27FIX	27SS
	1	0	96MSS_T	96MSS_C
	1	1	PCIEX0_T	PCIEX0_C

PIN8 : 0=SRC Pair, 1=CPU_ITP pair
PIN64: 0=PCIEXCLK, 1=PEREQ#

Int. PU: PIN5, PIN9, PIN32, PIN33, PIN34
Int. PD: PIN64

PEREQ#1: PCIEX0, PCIEX6
PEREQ#2: PCIEX1, PCIEX8
PEREQ#3: PCIEX2, PCIEX4
PEREQ#4: PCIEX3, PCIEX5, PCIEX7

+3VS +3VS 6,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61

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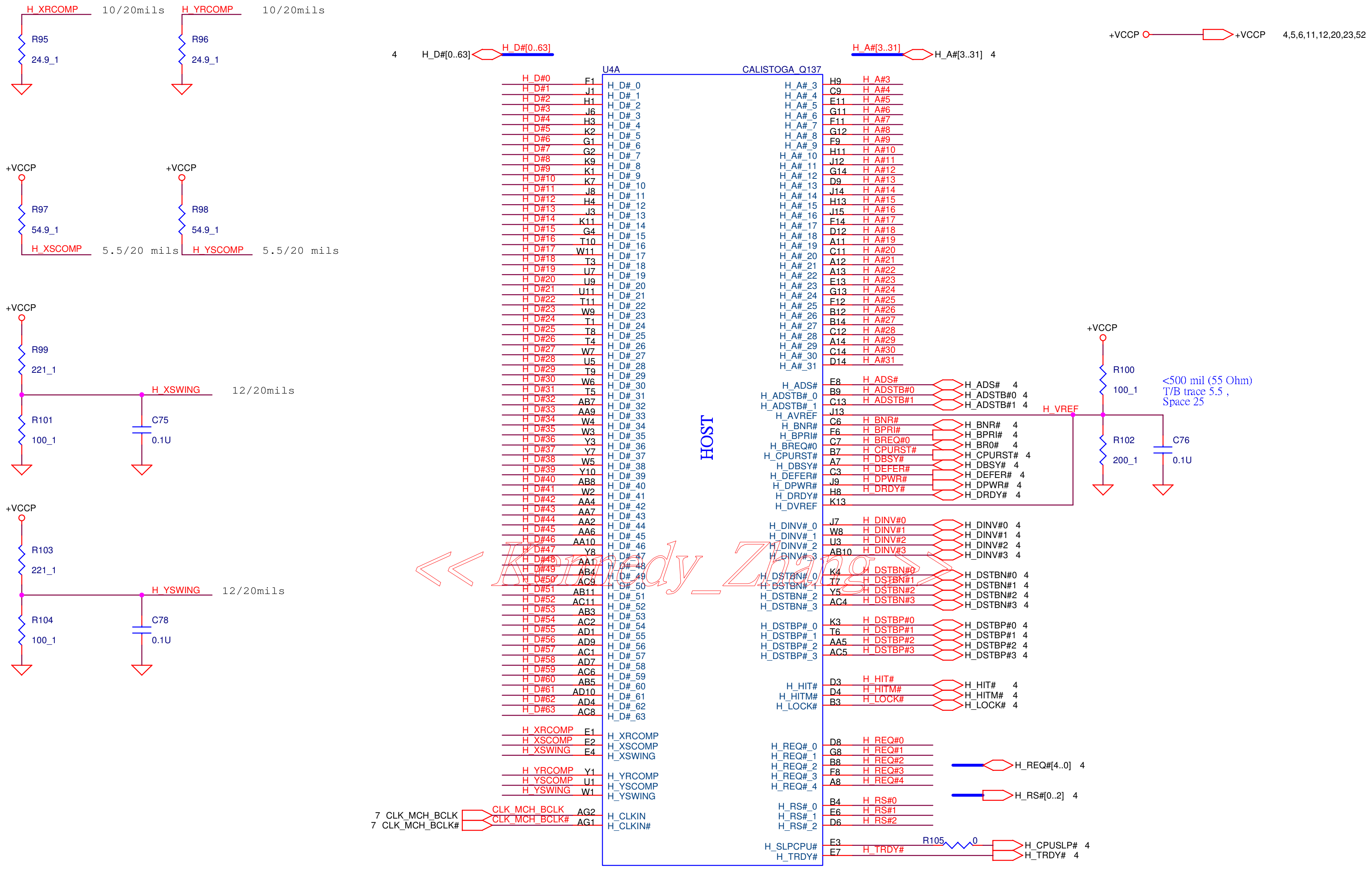
Title: CLK ICS954310AGLF

Size: Custom | Document Number: A8J/F | Rev: 2.0

Date: Wednesday, March 29, 2006 | Sheet 7 of 63



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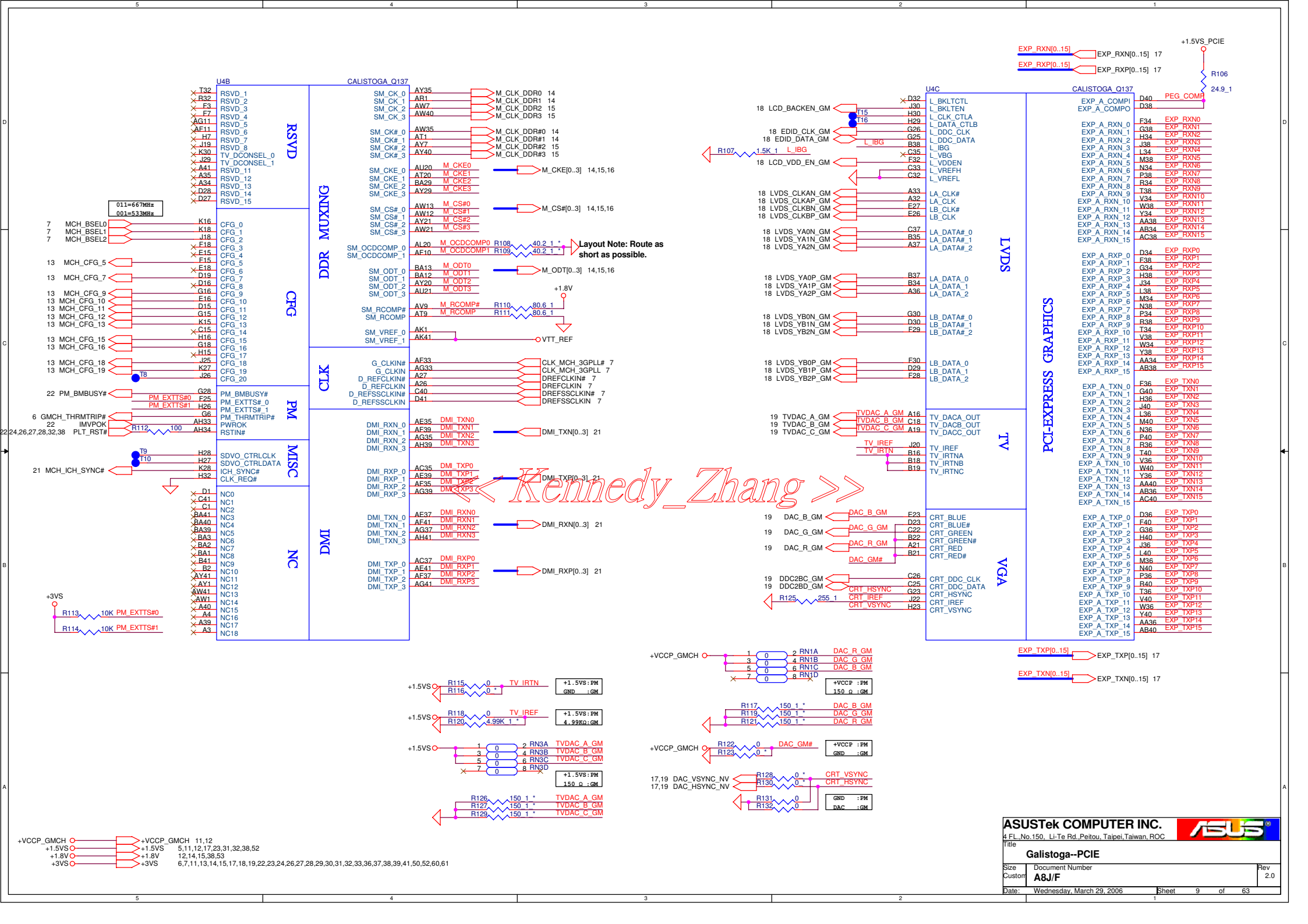
Title	Galistoga--CPU	
Size Custom	Document Number A8J/F	Rev 2.0
Date: Wednesday, March 29, 2006	Sheet 8 of 63	



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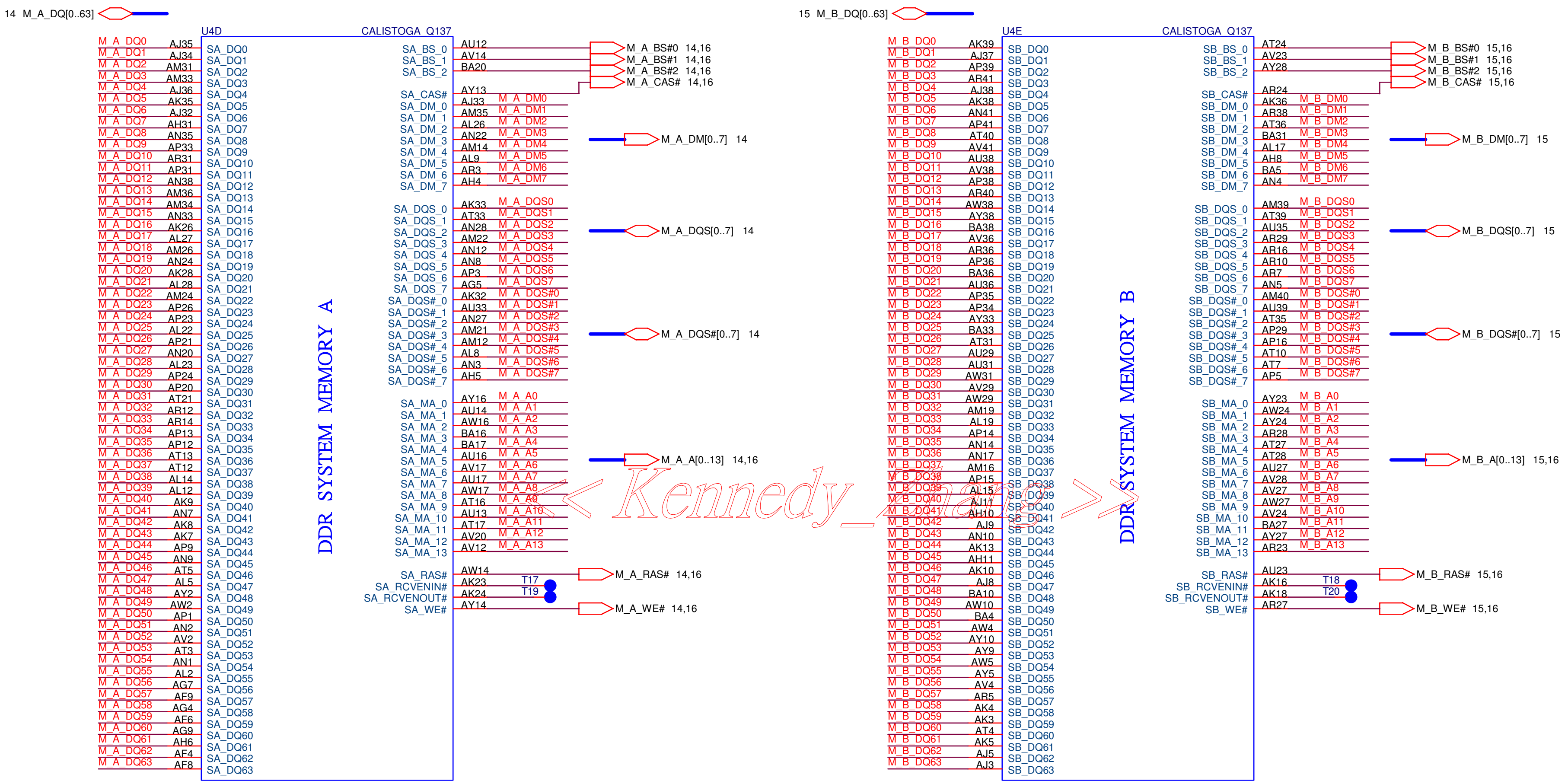
Address	4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC
Title	Galistoga--PCIE
Size	Custom
Document Number	A8J/F
Rev	2.0
Date	Wednesday, March 29, 2006
Sheet	9 of 63



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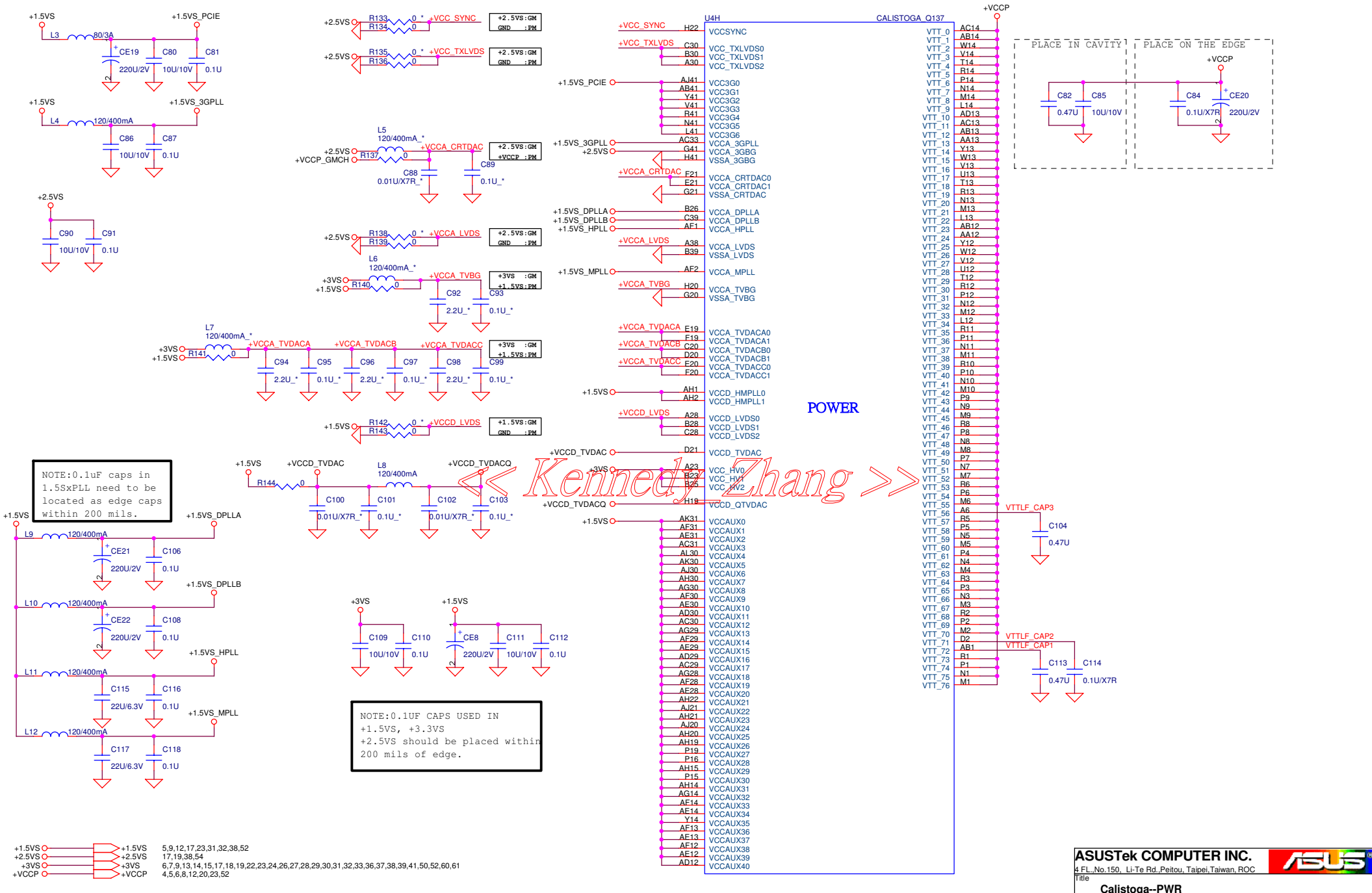
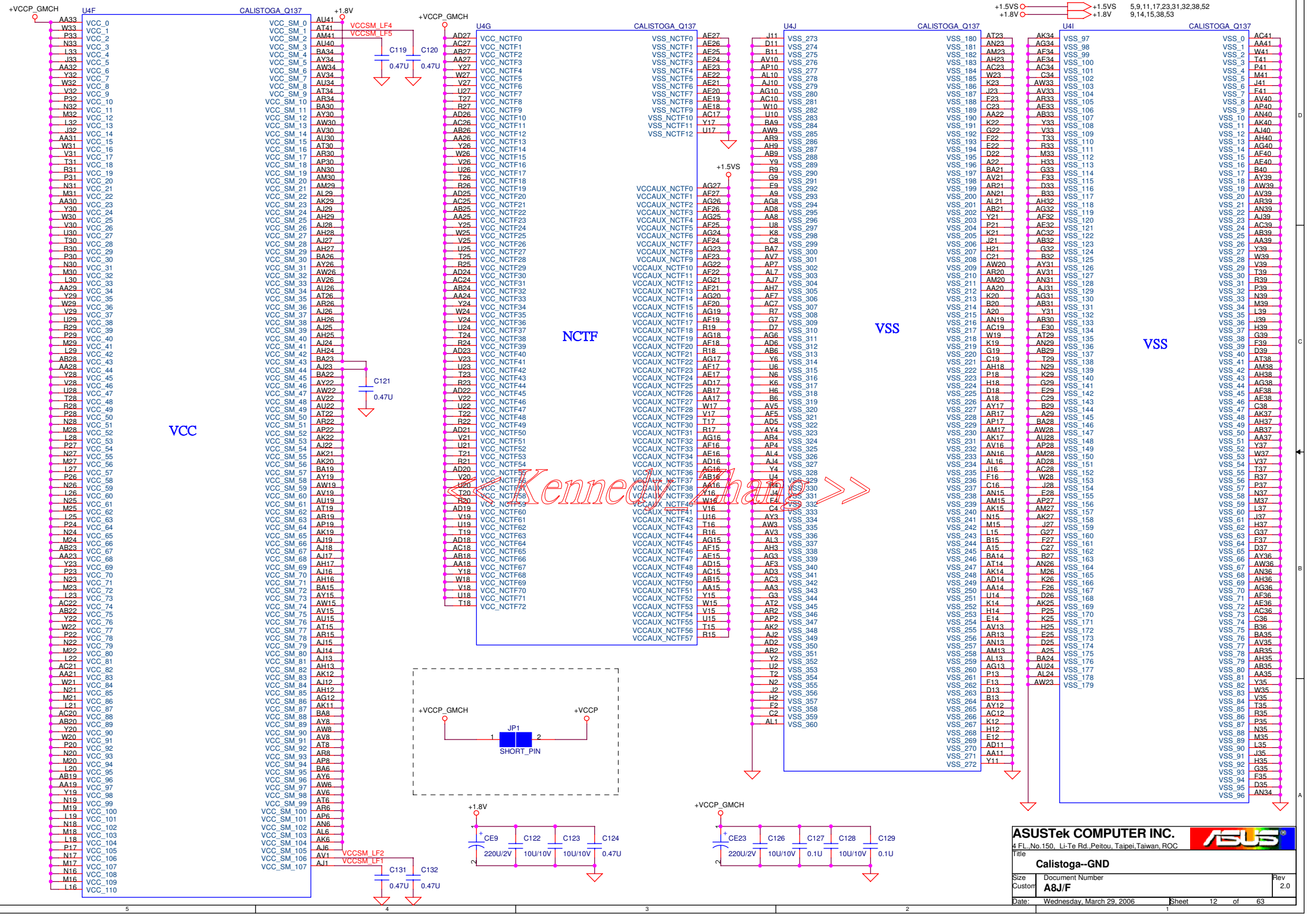
Title: **Calistoga--DDR2**

Size	Document Number	Rev
Custom	A8J/F	2.0

Date: Wednesday, March 29, 2006 Sheet 10 of 63




+VCCP_GMCH
U4F
CALISTOGA_Q137
VCC
+1.8V
VCCSM_LF4
VCCSM_LF5
C119
C120
0.47U
0.47U
C121
0.47U
VCCSM_LF2
VCCSM_LF1
C131
C132
0.47U
0.47U
U4G
NCTF
VSS_NCTF
VCCAUX_NCTF
+1.5VS
U4J
VSS
+1.5VS
+1.8V
5,9,11,17,23,31,32,38,52
9,14,15,38,53
U4I
JP1
SHORT_PIN
+VCCP
CE9
CE23
C122
C123
C124
C126
C127
C128
C129
220U/2V
10U/10V
0.1U
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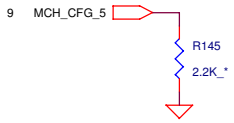
Title
Calistoga--GND
Size
Custom
Document Number
A8J/F
Rev
2.0
Date:
Wednesday, March 29, 2006
Sheet
12
of
63

+3VS +3VS 6,7,9,11,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61

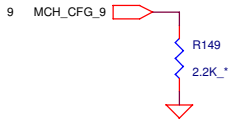


CFG5 : DMI STRAP

LOW = DMI X 2
HIGH = DMI X 4 (Default)

CFG7 : CPU STRAP

LOW = RESERVED
HIGH = Mobile Yonah CPU (Default)



CFG9 : PCIE GRAPHIC LANE

LOW = REVERSE LANE
HIGH = NORMAL OPERATION (Default)

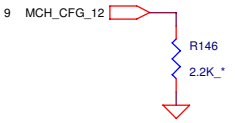
CFG10 : HOST PLL VCO SELECT

LOW = RESERVED
HIGH = MOBILITY (Default)

CFG11 : PSB 4x CLK ENABLE

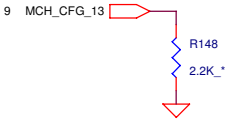
LOW = 4X ENABLED
HIGH = 8X ENABLED (Default)

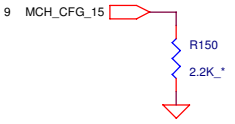
CFG[17..3] have internal pullup resistors.
CFG[19..18] have internal pulldown resistors.
SDVOCRTL_DATA has internal pulldown resistors.



CFG[13:12] : GMCH TEST MODE SELECT

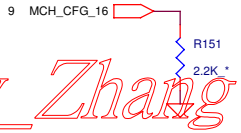
00 = Partial CLK gating disable
01 = XOR Mode Enable
10 = ALL Z Mode Enable
11 = NORMAL OPERATION (Default)





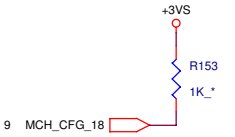
CFG15 : ICH RESET Disable

LOW = ICH RESET Disabled
HIGH = Normal Operation (Default)



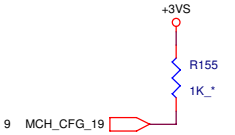
CFG16 : FSB Dynamic ODT

LOW = Dynamic ODT Disabled
HIGH = Dynamic ODT Enabled (Default)



CFG18 : GMCH Core Voltage Level

LOW = 1.05V (Default)
HIGH = 1.5V



CFG19 : DMI LANE REVERSAL

LOW = NORMAL (Default)
HIGH = LANES REVERSED

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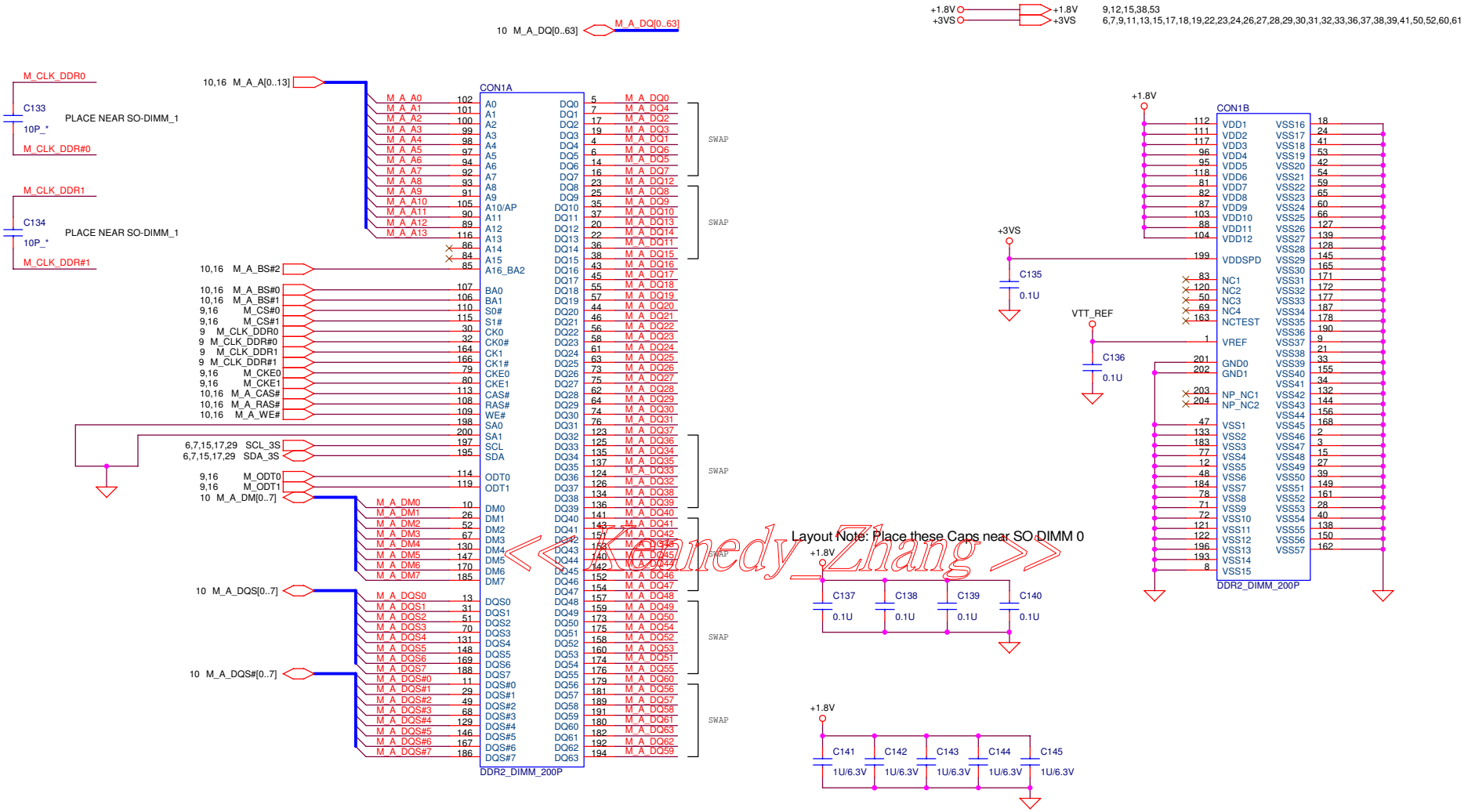
Title: Galistoga--straps		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 13 of 63	



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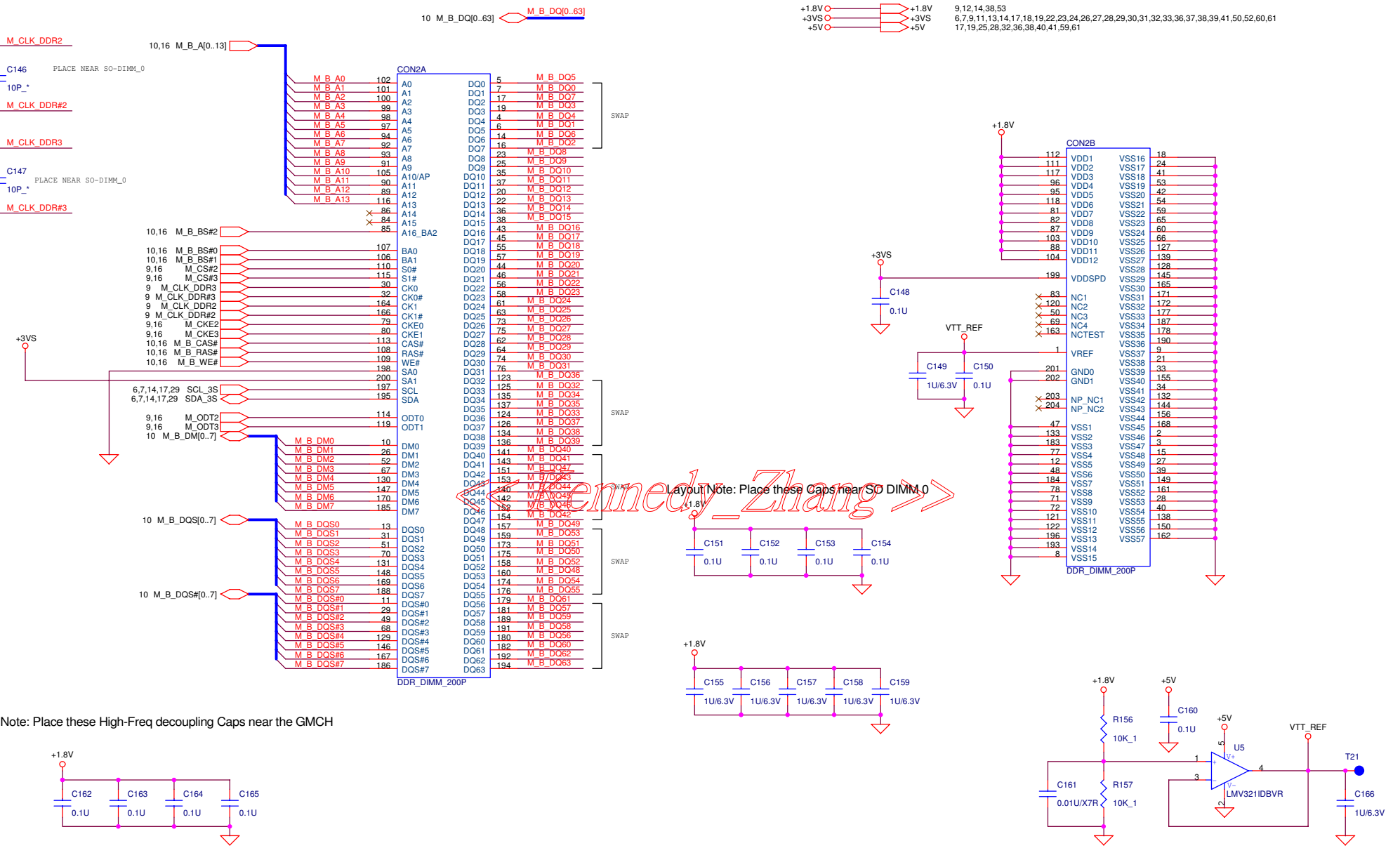
Title: DDR2 SO-DIMM0		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 14 of 63	



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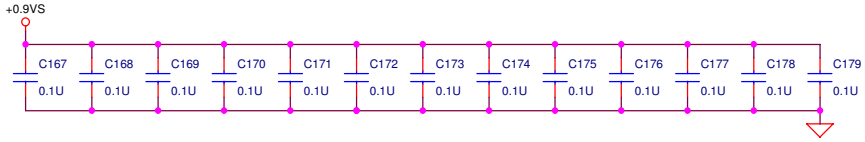
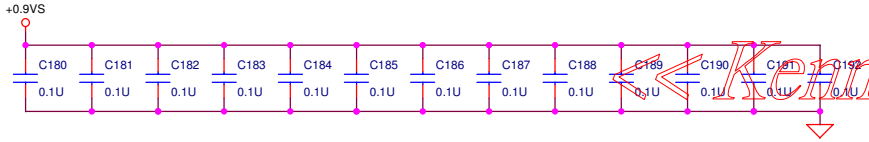
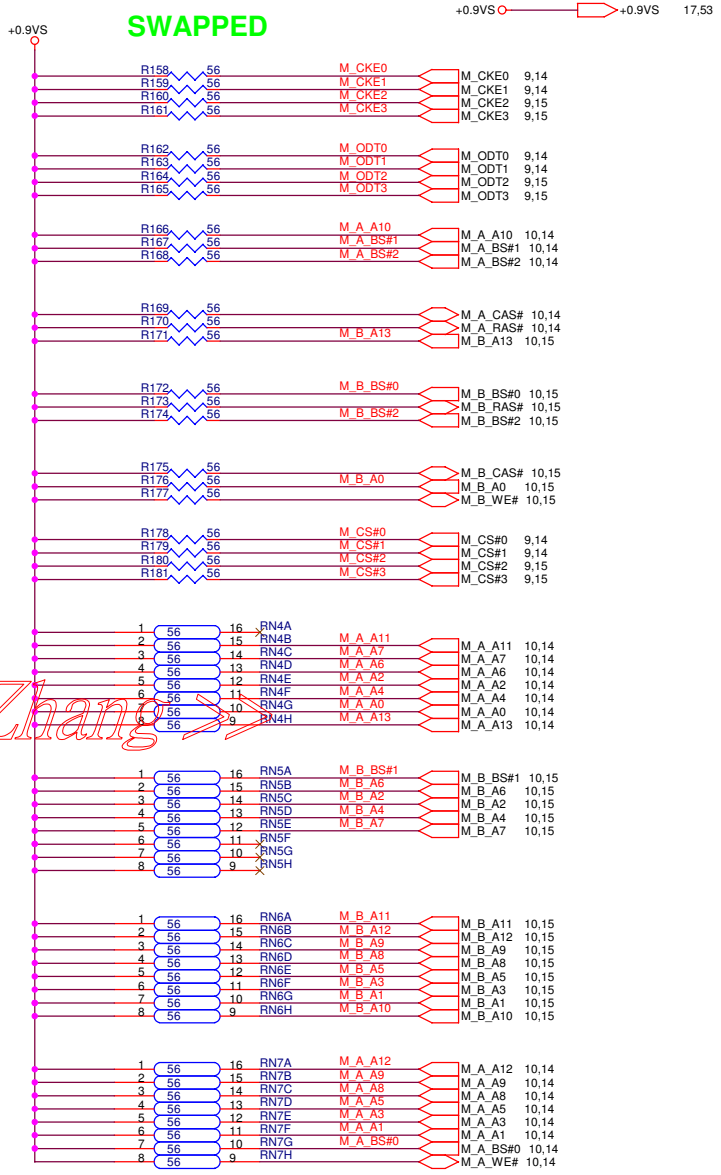
Title: DDR2 SO-DIMM1			
Size: Custom	Document Number: A8J/F		Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 15 of 63		

SWAPPED



Layout note: Place one cap close to every 2 pullup resistors terminated to +0.9VS



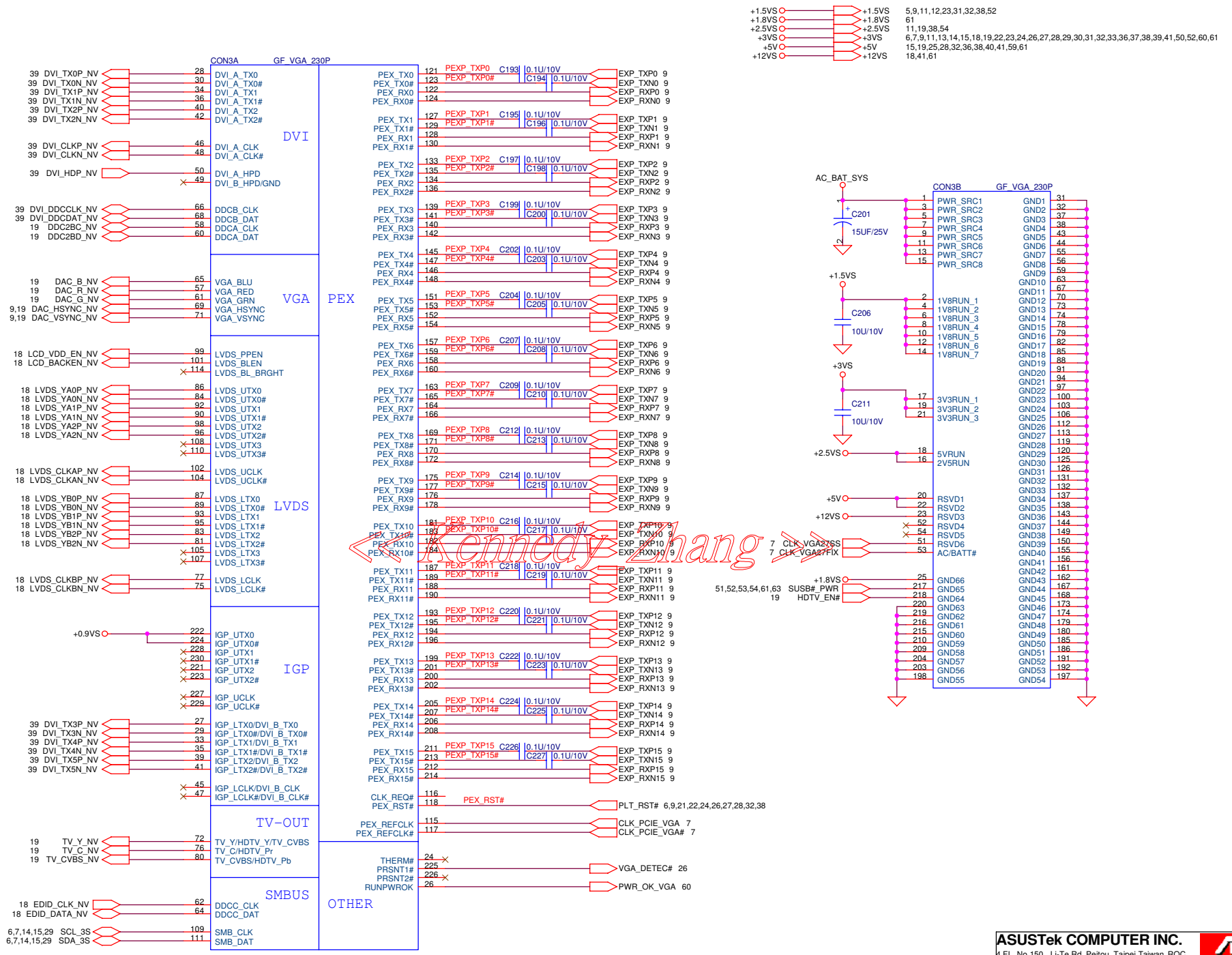


ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

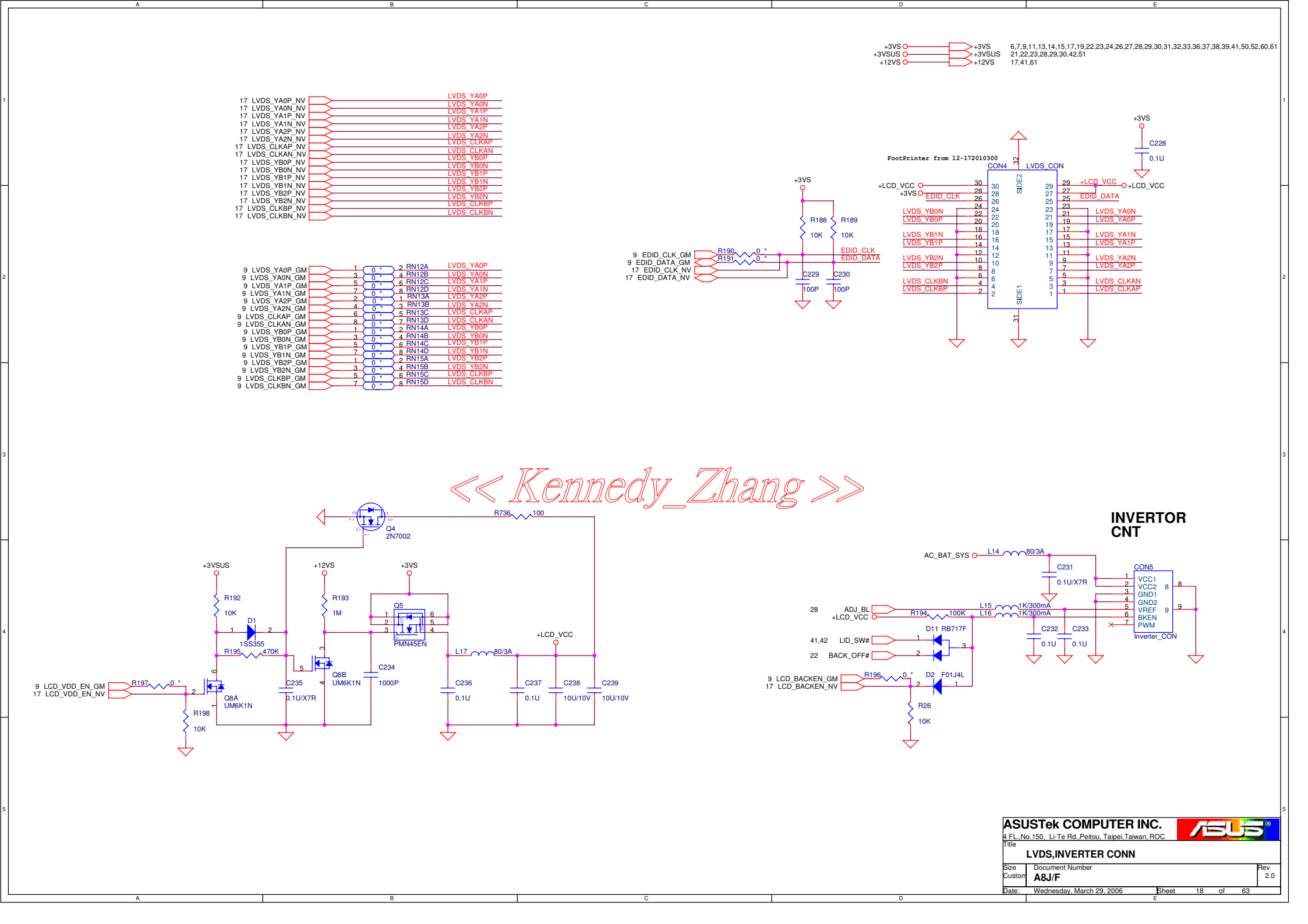
Title: DDR2 ADDRESS TERMINATION

Size: Custom | Document Number: A8J/F | Rev: 2.0

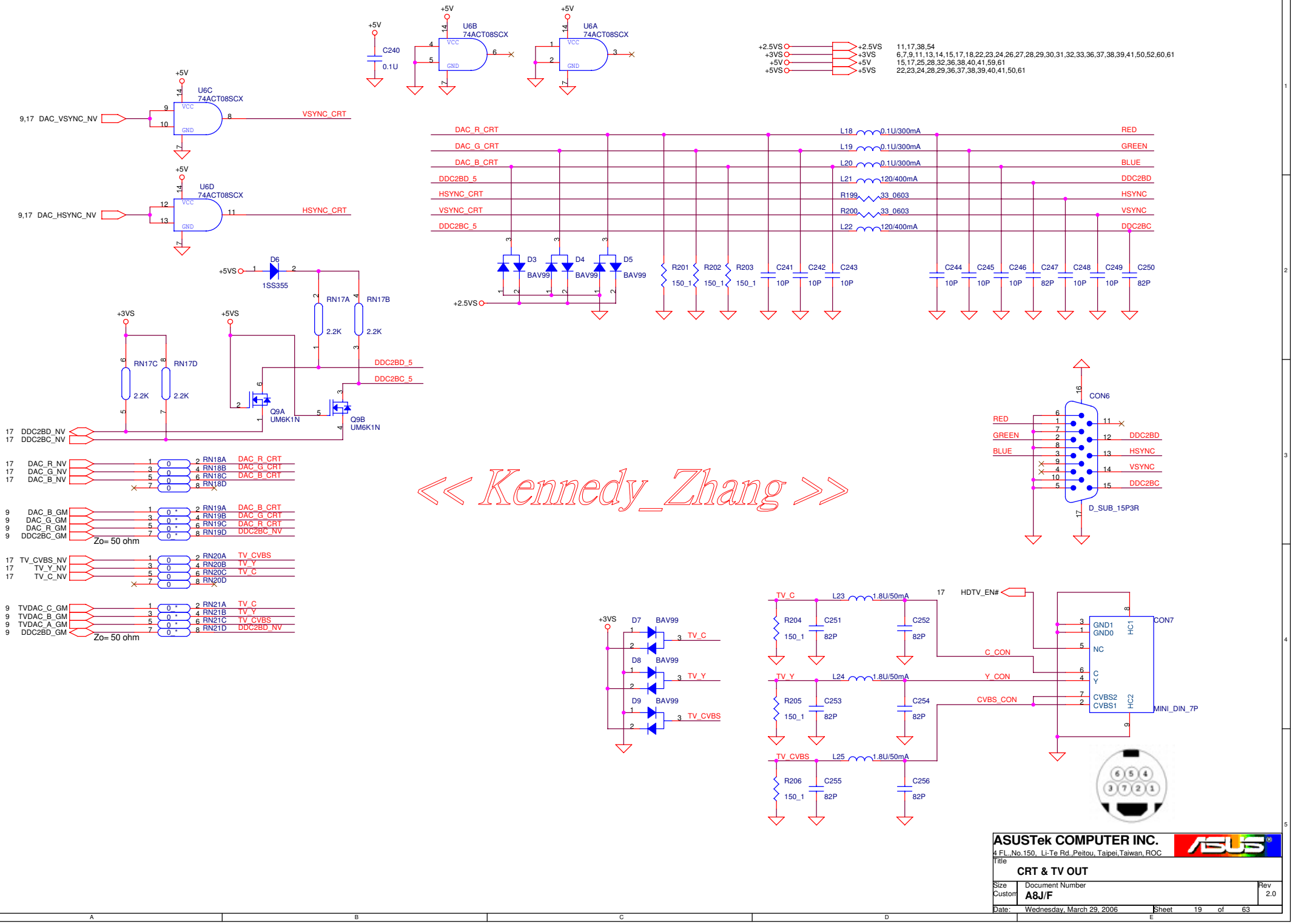
Date: Wednesday, March 29, 2006 | Sheet 16 of 63



Company	ASUSTek COMPUTER INC.
Address	4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC
Title	VGA CONN
Size	Custom
Document Number	A8J/F
Rev	2.0
Date	Wednesday, March 29, 2006
Sheet	17 of 63



ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: LVDS,INVERTER CONN		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 18 of 63	

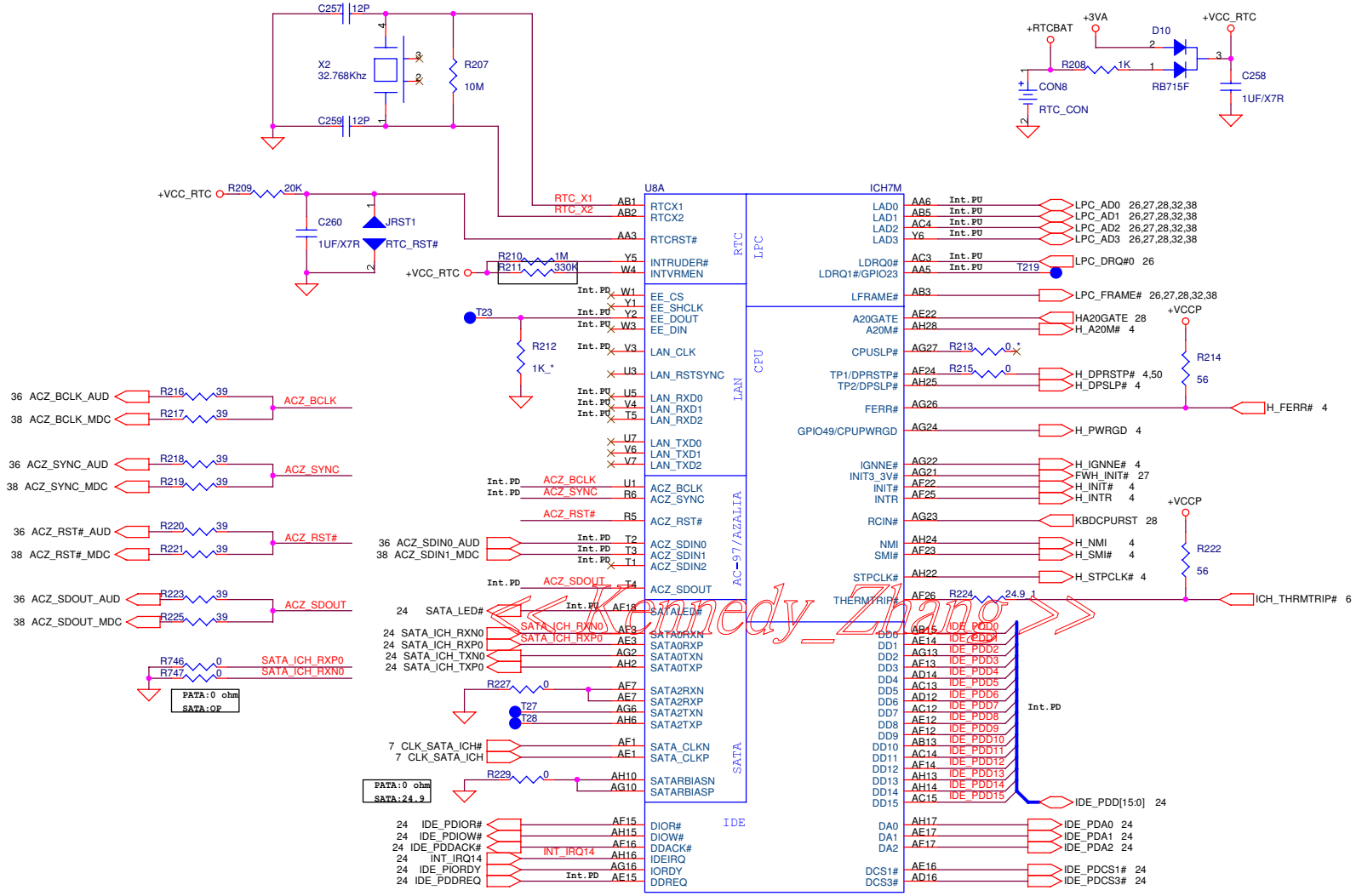


ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

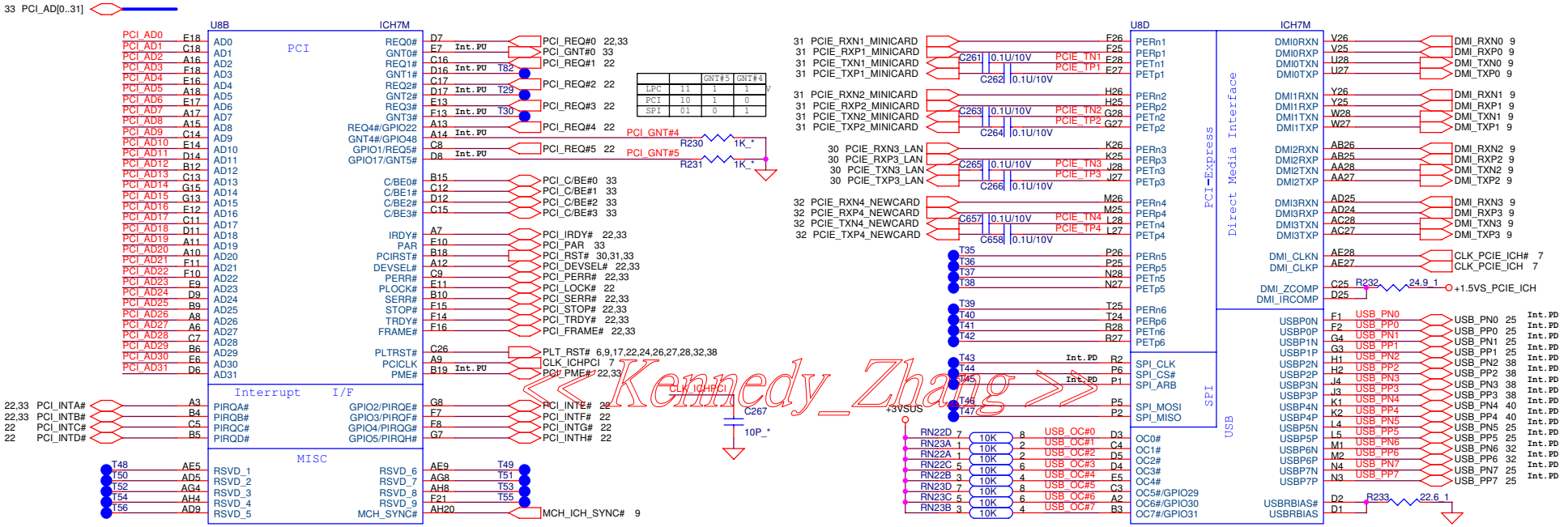
Title: **CRT & TV OUT**

Size	Document Number	Rev
Custom	A8J/F	2.0

Date: Wednesday, March 29, 2006 Sheet 19 of 63



ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title	ICH7M--CPU,IDE,AUDIO	
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 20 of 63	



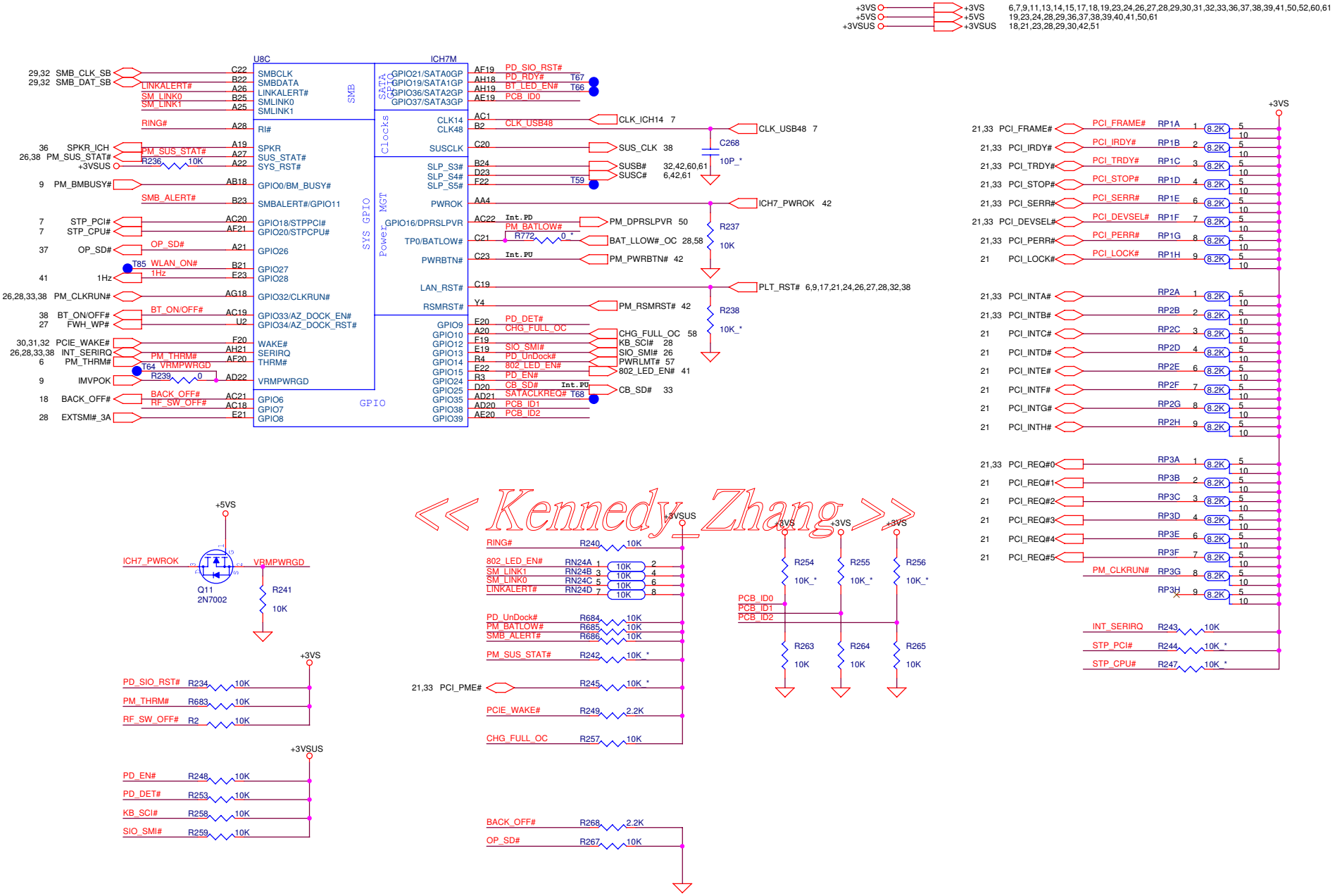
+3VSUS +3VSUS 18,22,23,28,29,30,42,51

ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

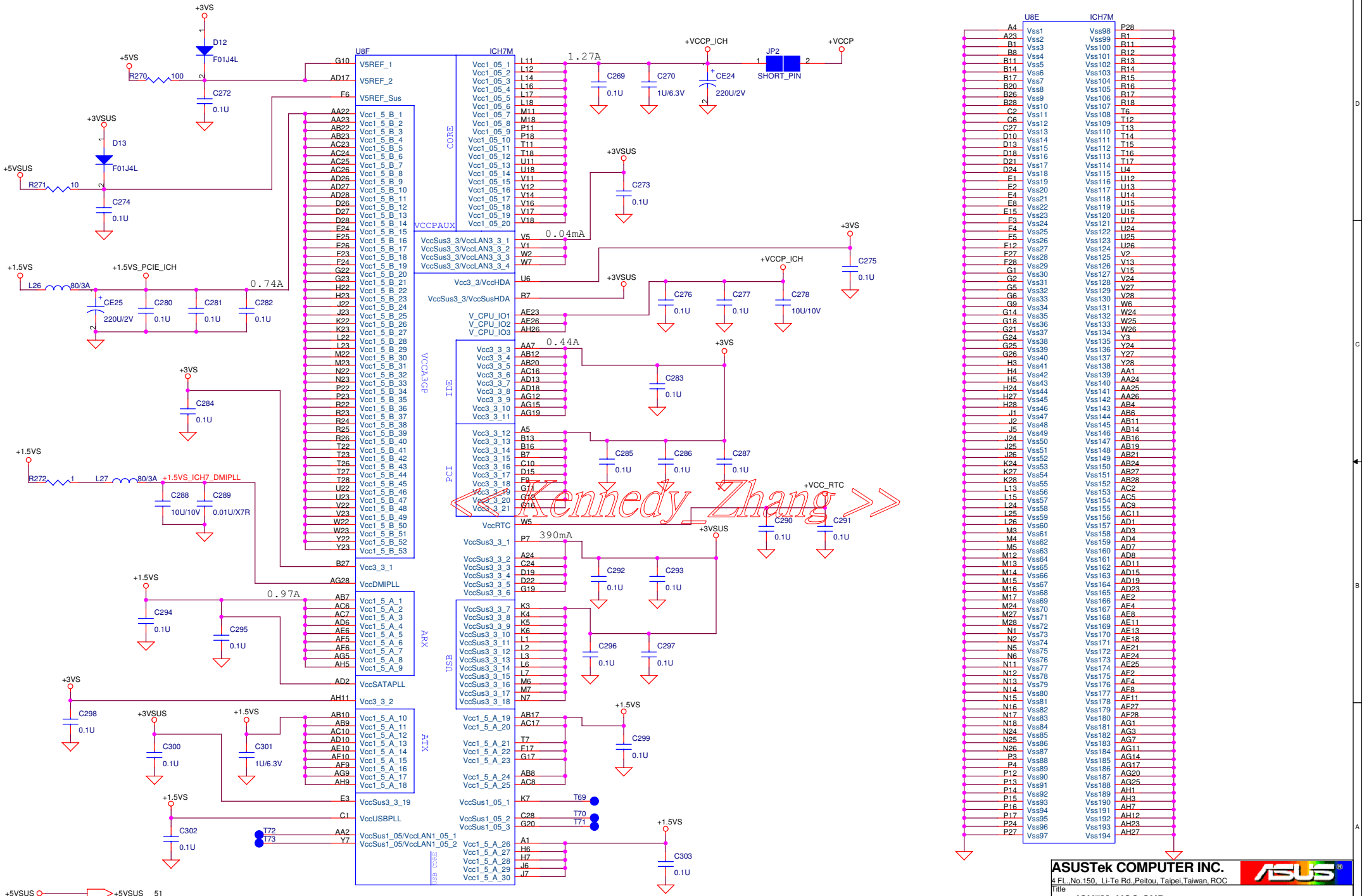
Title: **ICH7M--PCI,PCI-E,USB**

Size	Document Number	Rev
Custom	A8J/F	2.0

Date: Wednesday, March 29, 2006 Sheet 21 of 63



ASUSTek COMPUTER INC.	
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC	
Title	ICH7M--GPIO
Size: Custom	Document Number: A8J/F
Rev	2.0
Date: Wednesday, March 29, 2006	Sheet 22 of 63



+5VSUS 51
+3VSUS 18,21,22,28,29,30,42,51
+5VS 19,22,24,28,29,36,37,38,39,40,41,50,61
+3VS 6,7,9,11,13,14,15,17,18,19,22,24,26,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61
+1.5VS 5,9,11,12,17,31,32,38,52
+VCCP 4,5,6,8,11,12,20,52

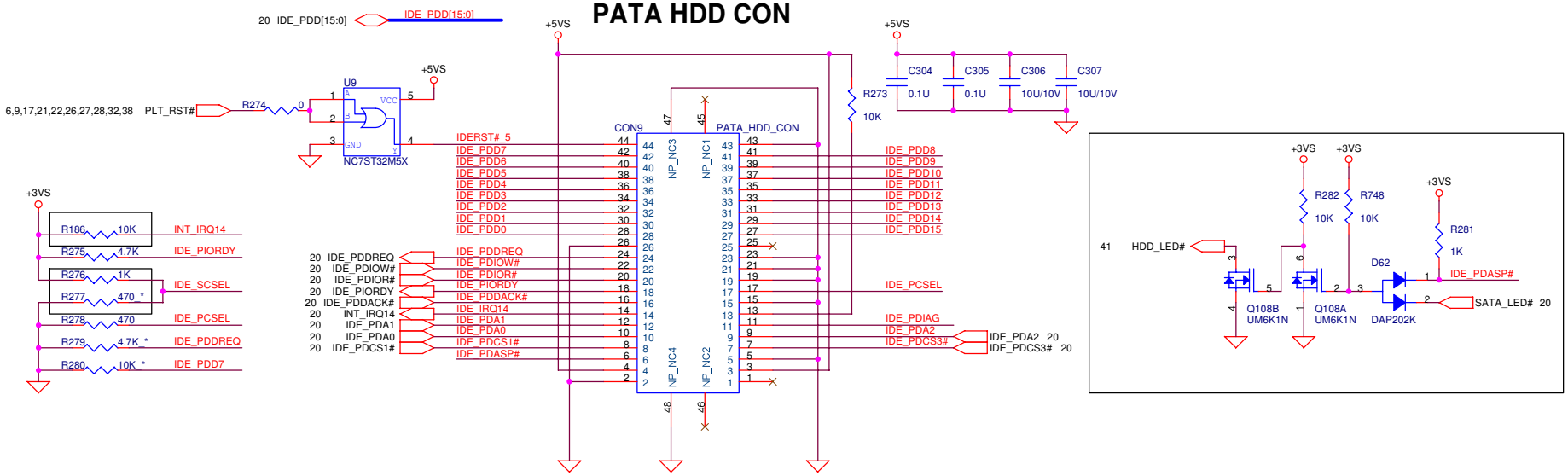
ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

Title: **ICH7M--VCC,GND**

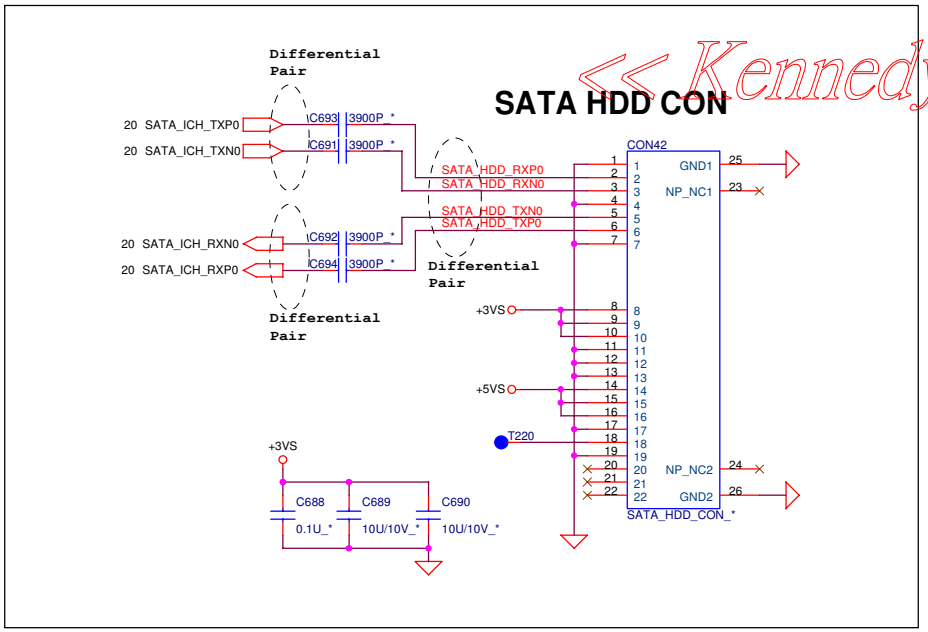
Size	Document Number	Rev
Custom	**A8J/F**	2.0

Date: Wednesday, March 29, 2006 Sheet 23 of 63

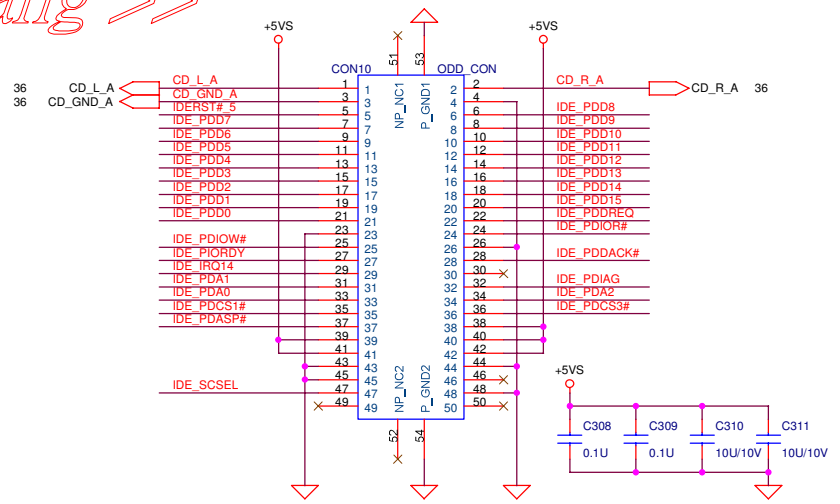
PATA HDD CON



SATA HDD CON

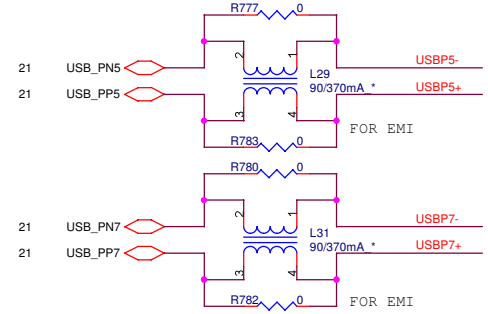


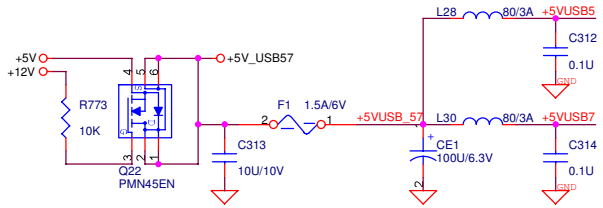
PATA CD-ROM CON

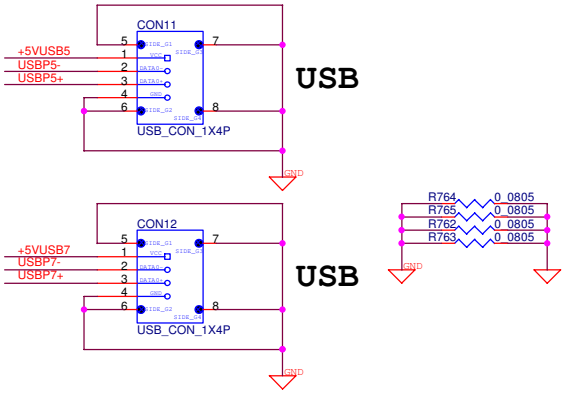


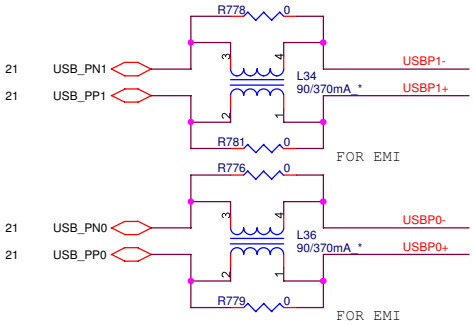
+3VS 6,7,9,11,13,14,15,17,18,19,22,23,26,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61
+5VS 19,22,23,28,29,36,37,38,39,40,41,50,61
+5V 15,17,19,25,28,32,36,38,40,41,59,61

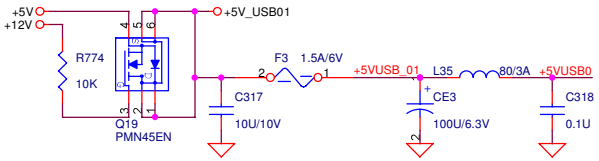
ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: HDD & CD-ROM CONN		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 24 of 63	

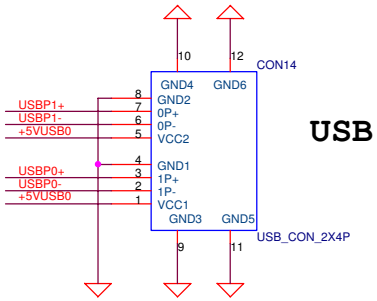




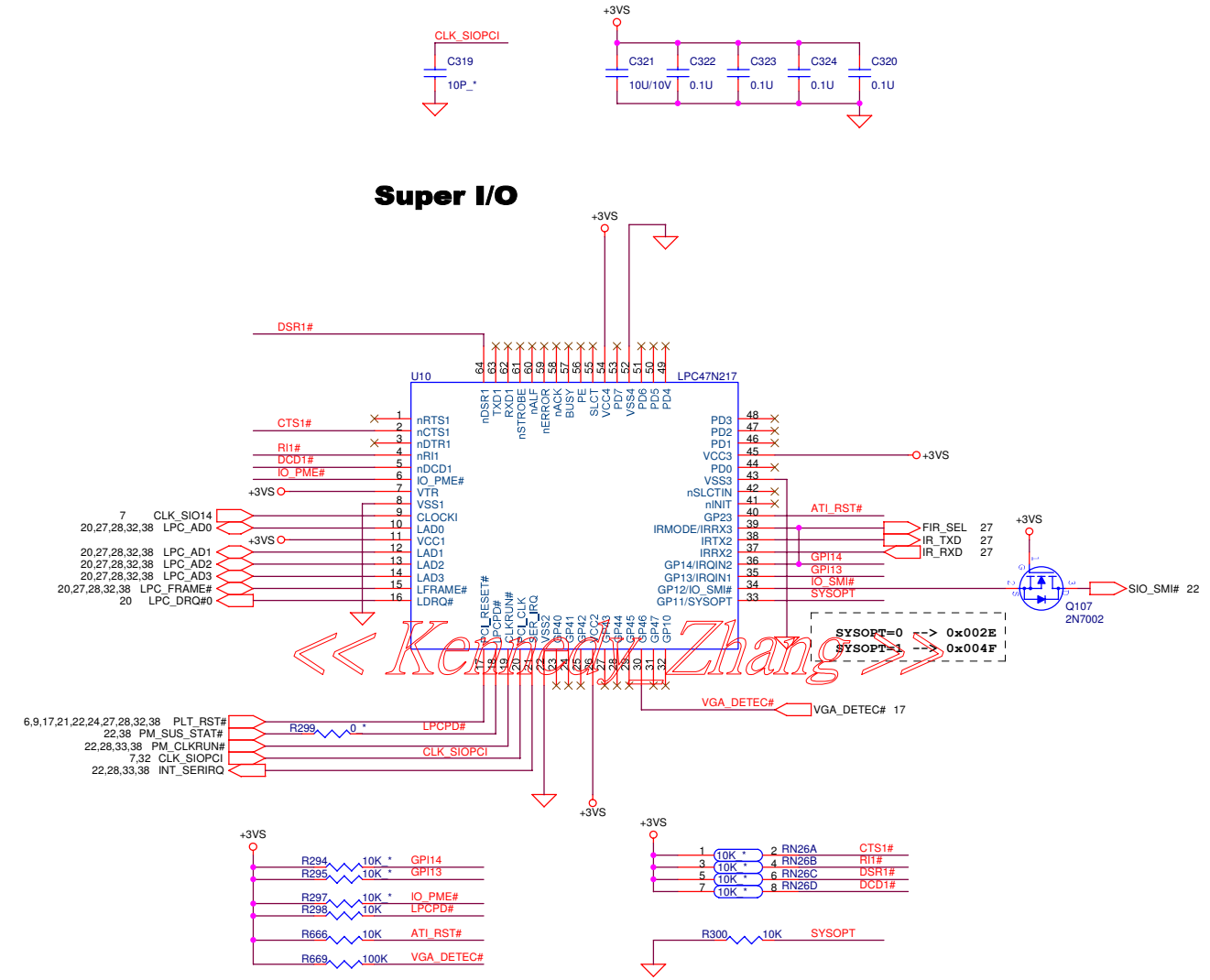






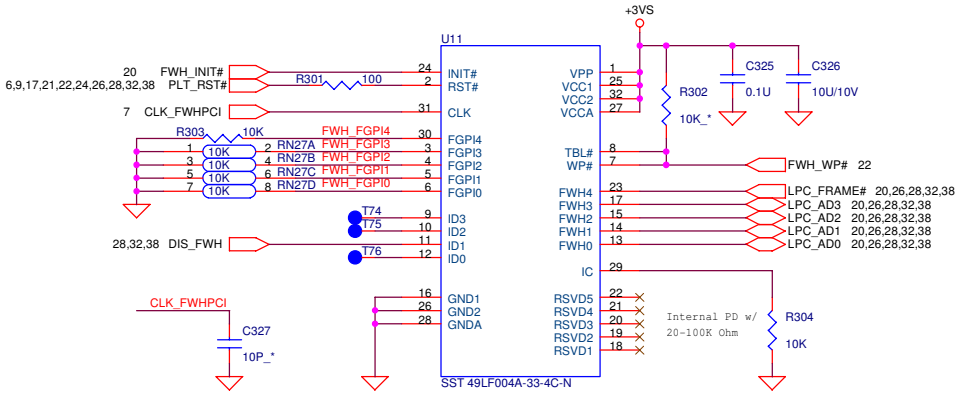


ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: USB PORTS		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 25 of 63	

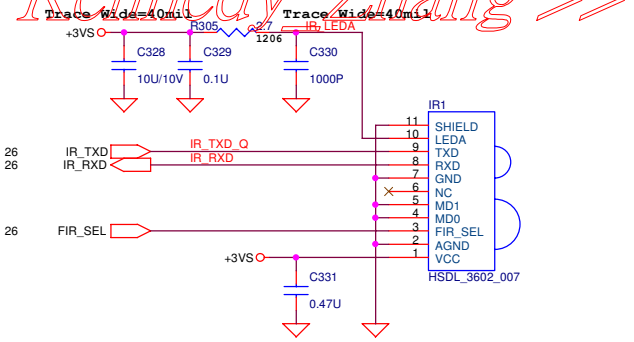


+3VS +3VS 6,7,9,11,13,14,15,17,18,19,22,23,24,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61

ASUSTek COMPUTER INC.			
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC			
Title: SUPER IO LPC47N217			
Size: Custom	Document Number: A8J/F		Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 26 of 63		



PLCC32 Socket Part Number :
12G043400324
Graphics from:
05-001005111



+3VS +3VS 6,7,9,11,13,14,15,17,18,19,22,23,24,26,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61

ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: BIOS , IR		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 27 of 63	

P2.1 Low : Power Button Override disable

Input Event only at P54, P55, P60 - P67

P50, P43, P54, P55 are wake-up event inputs when KBC in standby mode

EC should set OP_SD low in S3, keep from leakage.

CON43 DEBUG_CON

SIDE2	12	LPC_AD0
	11	LPC_AD1
	10	LPC_AD2
	9	DIS_FWH
	8	LPC_AD3
	7	LPC_FRAME#
	6	CLK_KBCPCI
SIDE1	5	

DIS_FWH 27,32,38

KBDDT1	KBDDT0	Matrix
1	1	US
1	0	UK
0	1	JP

CON16 Internal_KB_CON

SIDE2	30	
	28	KSI1
	27	KSO7
	26	KSI7
	25	KSO0
	24	KSI6
	23	KSO9
	22	KSI5
	21	KSO3
	20	KSI4
	19	KSO1
	18	KSI2
	17	KSI3
	16	KSO5
	15	KSO13
	14	KSI0
	13	KSO2
	12	KSO4
	11	KSO8
	10	KSO6
	9	KSO11
	8	KSO10
	7	KSO12
	6	KSO14
	5	KSO15
	4	
	3	KBDDT0
	2	KBDDT1
SIDE1	1	
	29	

KSI0 RP4A 10K
KSI1 RP4B 10K
KSI2 RP4C 10K
KSI3 RP4D 10K
KSI4 RP4E 10K
KSI5 RP4F 10K
KSI6 RP4G 10K
KSI7 RP4H 10K

+3V

RP29A RP29B RP29C RP29D RP5A RP5B RP5C RP5D RP5E RP5F RP5G RP5H 10K

CLK_KBCPCI C337 10P_*

U13 M38857

22,26,33,38	INT_SERIRQ	P87/SERIRQ
7	CLK_KBCPCI	P86/LCLK
6,9,17,21,22,24,26,27,32,38	PLT_RST#	P85/LRESET#
20,26,27,32,38	LPC_FRAME#	P84/LFRAME#
20,26,27,32,38	LPC_AD3	P83/LAD3
20,26,27,32,38	LPC_AD2	P82/LAD2
20,26,27,32,38	LPC_AD1	P81/LAD1
20,26,27,32,38	LPC_AD0	P80/LAD0
41	MSK_INSTKEY#	
57	BAT_LEARN	P23 (BAT_LEARN R321 100K)
42	KBCRSM	P22
		P21
		P20
40	WATCHDOG	P42/INT0
41	SWDJ_EN	P43/INT1*
	KBCPURST_3Q	P44/RXD
	KBC_GA20	P45/TXD
	KBSCI_3Q	P46/SCLK1
22,26,33,38	PM_CLKRUN#	P47/SRDY1#/CLKRUN#
22,58	BAT_LLOW#_OC	P50/INT5*
40	FAN1_TACH	P51/INT20
	KBDDT0	P52/INT30/1-WIRE1
	KBDDT1	P53/INT40/1-WIRE2
42	LID_KBC#	P54/CNTR0*
59	BAT_IN_OC#	P55/CNTR1*
40	FAN1_DC	P56/DA1/PWM01
18	ADJ_BL	P57/DA2/PWM11
32	NEWCARD_OFF#	P67/AN7
41	PANLOCK_#	P66/AN6
41	MARATHON_#	P65/AN5
59	ACIN_OC#	P64/AN4
32	NEWCARD_DET#	P63/AN3
41	WIRELESS_#	P62/AN2
41	INTERNET_#	P61/AN1
41	BLUETOOTH_#	P60/AN0
		P75/INT41
		P74/INT31
		P73/INT21
		P72
		P71
		P70
		P77/SCL
		P76/SDA
		VCC
		VREF
		P27 (SCR_LED#)
		P26 (NUM_LED# 41)
		P25 (CAP_LED# 41)
		P24 (SET_PCIRSTNS#)
		P17/KSO15
		P16/KOS14
		P15/KSO13
		P14/KSO12
		P13/KSO11
		P12/KSO10
		P11/KSO9
		P10/KSO8
		P07/KSO7
		P06/KSO6
		P05/KSO5
		P04/KSO4
		P03/KSO3
		P02/KSO2
		P01/KSO1
		P00/KSO0
		P37/KSI8
		P36/KSI7
		P35/KSI6
		P34/KSI5
		P33/KSI4
		P32/KSI3
		P31/PWM10/KSI2
		P30/PWM00/KSI0
		XIN (X1_KBC)
		XOUT (X2_KBC)
		P40/XCOUT
		P41/XCIN (KBC_EXTSMI)
		RESET# (PCI_RSTNS#)
		CNVSS
		VSS
		AVSS

80mA

P54,P55,P43,P50 are wake-up event inputs when KBC in standby mode

C338 0.1U C339 0.1U

D32 1SS355 D14 1SS355

RN30A RN30B RN30C RN30D 10K

ACIN_OC# C701 0.1U

INTCLK_5S INTDATA_5S

PANLOCK_LED 41

X1_KBC X2_KBC C340 10P C341 10P X3 8MHZ R324 1M

Q109 2N7002 Q110 2N7002 Q13 2N7002

R322 10K R323 10K R319 10K R320 10K

KBC_GA20 HA20GATE 20 KBCPURST_3Q KBDCPURST 20 KBSCI_3Q KB_SCI# 22

R326 4.7K R327 4.7K Q14A UM6K1N Q14B UM6K1N

40,58 SMC_BAT 40,58 SMD_BAT

RN33A RN33B RN33C RN33D 10K

BAT_LLOW# FAN1_TACH BAT_LEARN R734 100K_*

R331 4.7K R332 4.7K

41 INTCLK_5S 41 INTDATA_5S

R325 10K EXTSMI#_3A 22 KBC_EXTSMI Q15 2N7002 R333 10K

PLT_RST# SET_PCIRSTNS# R330 47K U14 74LVC1G32GV C342 0.1U PCI_RSTNS# PCI_RSTNS# 30

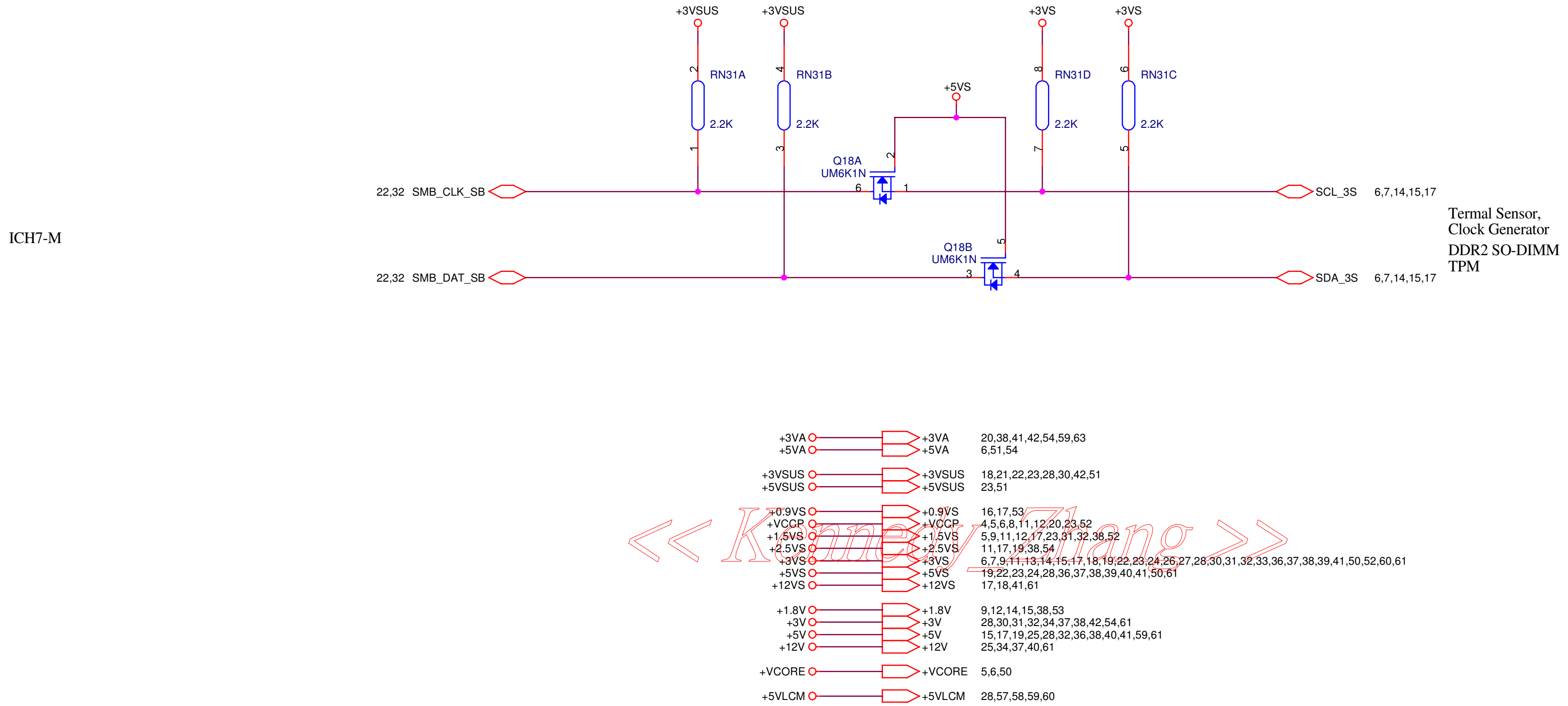
+3V	+3V	30,31,32,34,37,38,42,54,61
+3VS	+3VS	6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,29,30,31,32,33,36,37,38,39,41,50,52,60,61
+3VSUS	+3VSUS	18,21,22,23,29,30,42,51
+5V	+5V	15,17,19,25,32,36,38,40,41,59,61
+5VS	+5VS	19,22,23,24,29,36,37,38,39,40,41,50,61
+5VLCM	+5VLCM	57,58,59,60

ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

Title: KBC 38857

Size: Custom | Document Number: A8J/F | Rev: 2.0

Date: Wednesday, March 29, 2006 | Sheet 28 of 63



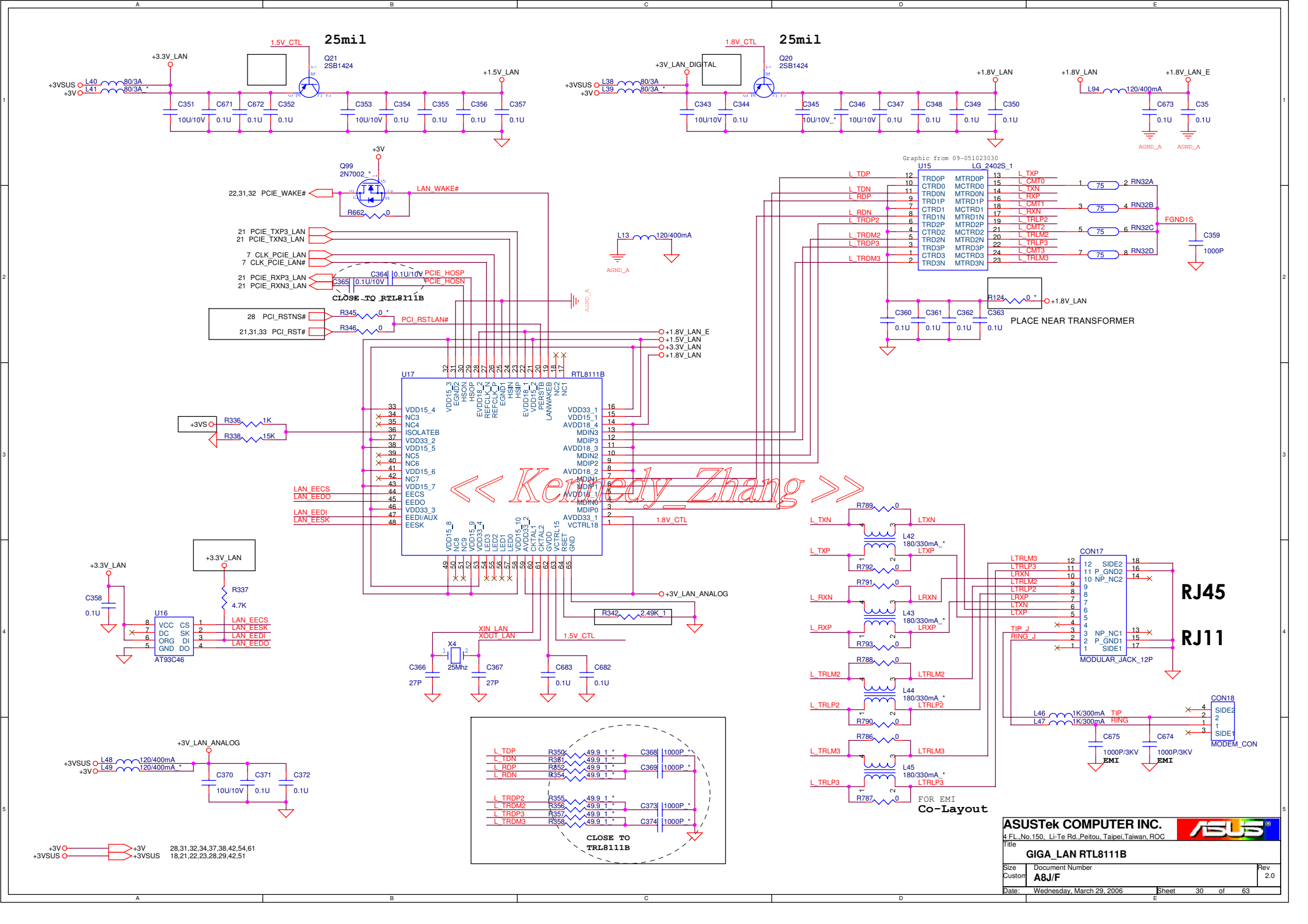
ASUSTek COMPUTER INC.

4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

Title: **SM BUS & POWER PORT**

Size	Document Number	Rev
Custom	A8J/F	2.0

Date: Wednesday, March 29, 2006 Sheet 29 of 63

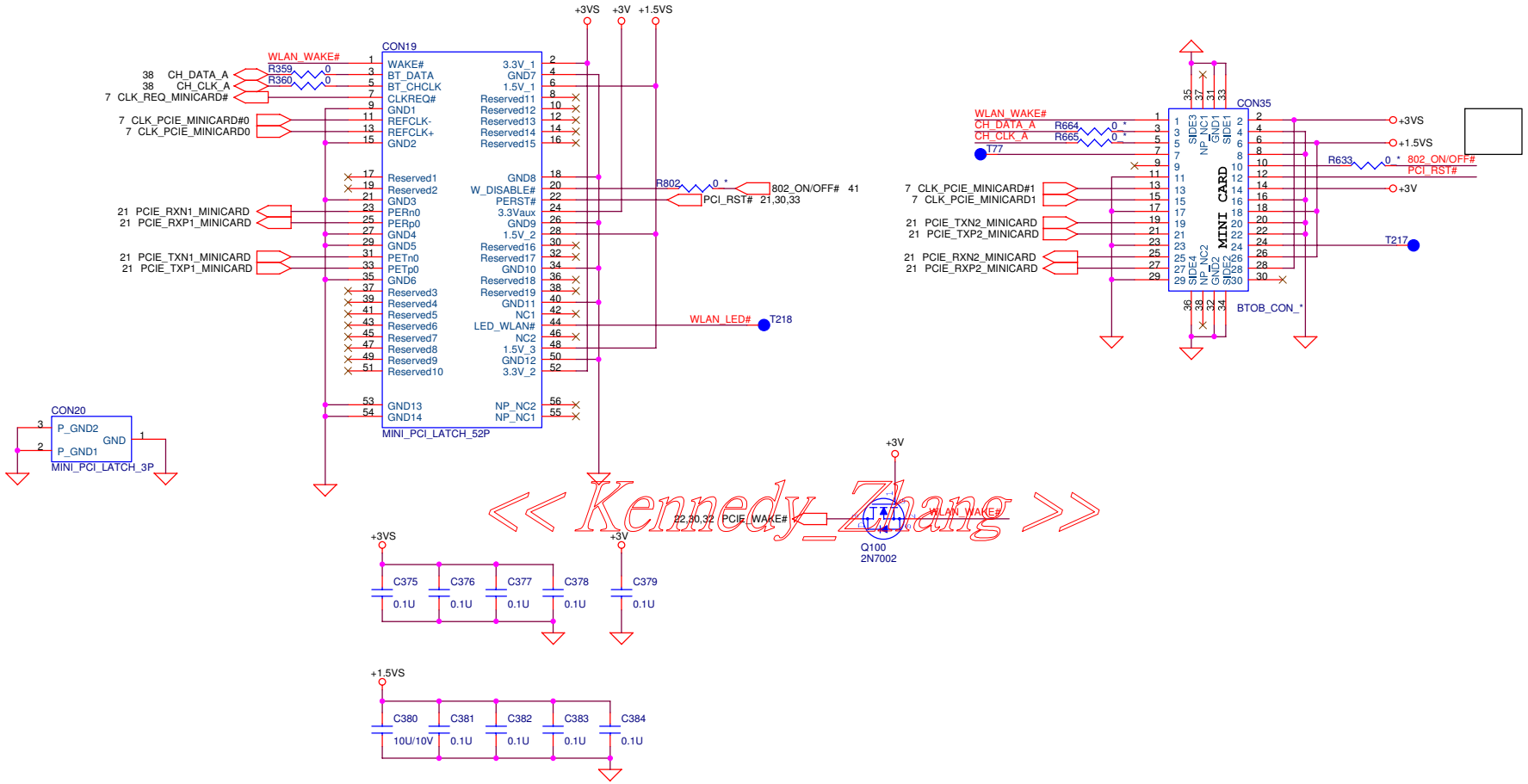


ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

Title: GIGA_LAN RTL8111B

Size: Custom | Document Number: A8J/F | Rev: 2.0

Date: Wednesday, March 29, 2006 | Sheet 30 of 63



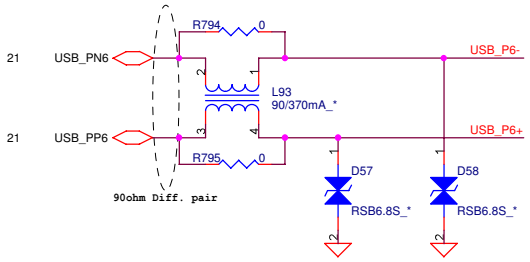
+1.5VS	+1.5VS	5,9,11,12,17,23,32,38,52
+3V	+3V	28,30,32,34,37,38,42,54,61
+3VS	+3VS	6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,32,33,36,37,38,39,41,50,52,60,61

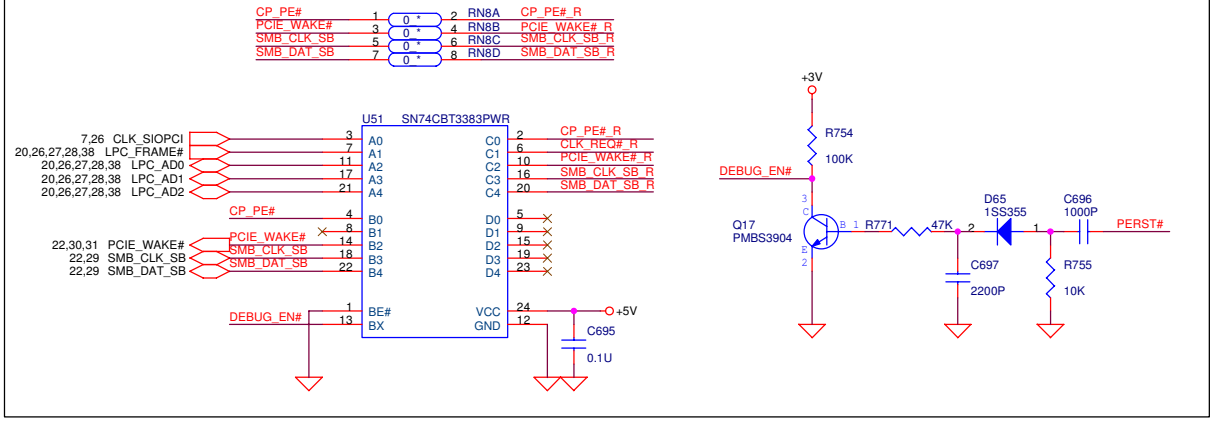
ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

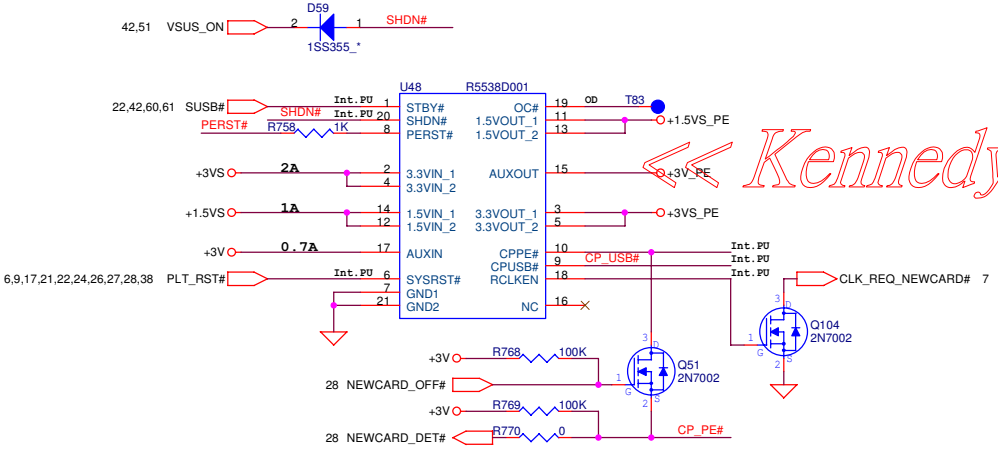
Title: MINI CARD

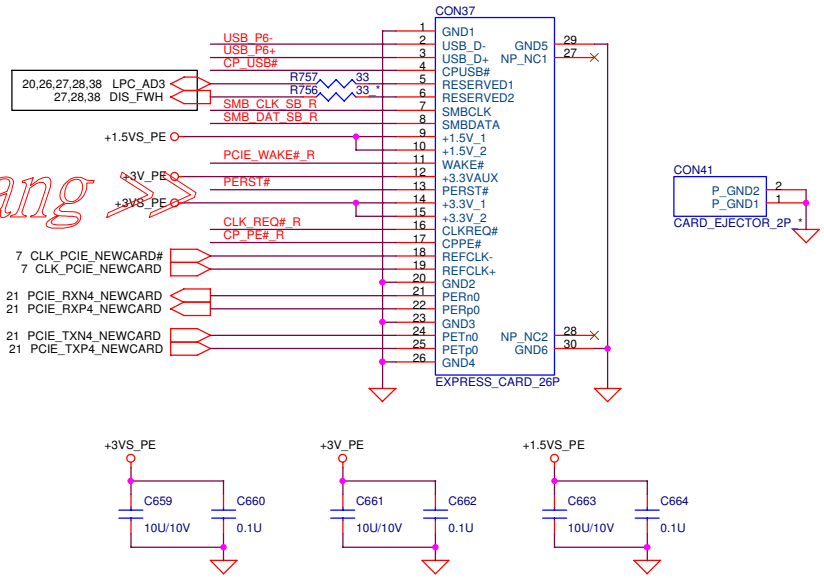
Size: Custom | Document Number: A8J/F | Rev: 2.0

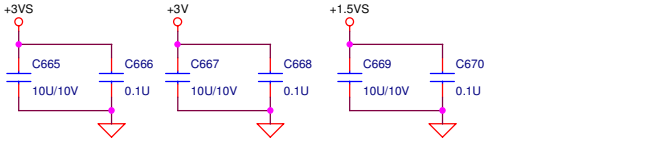
Date: Wednesday, March 29, 2006 | Sheet 31 of 63

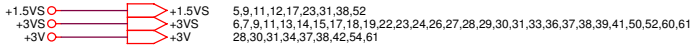










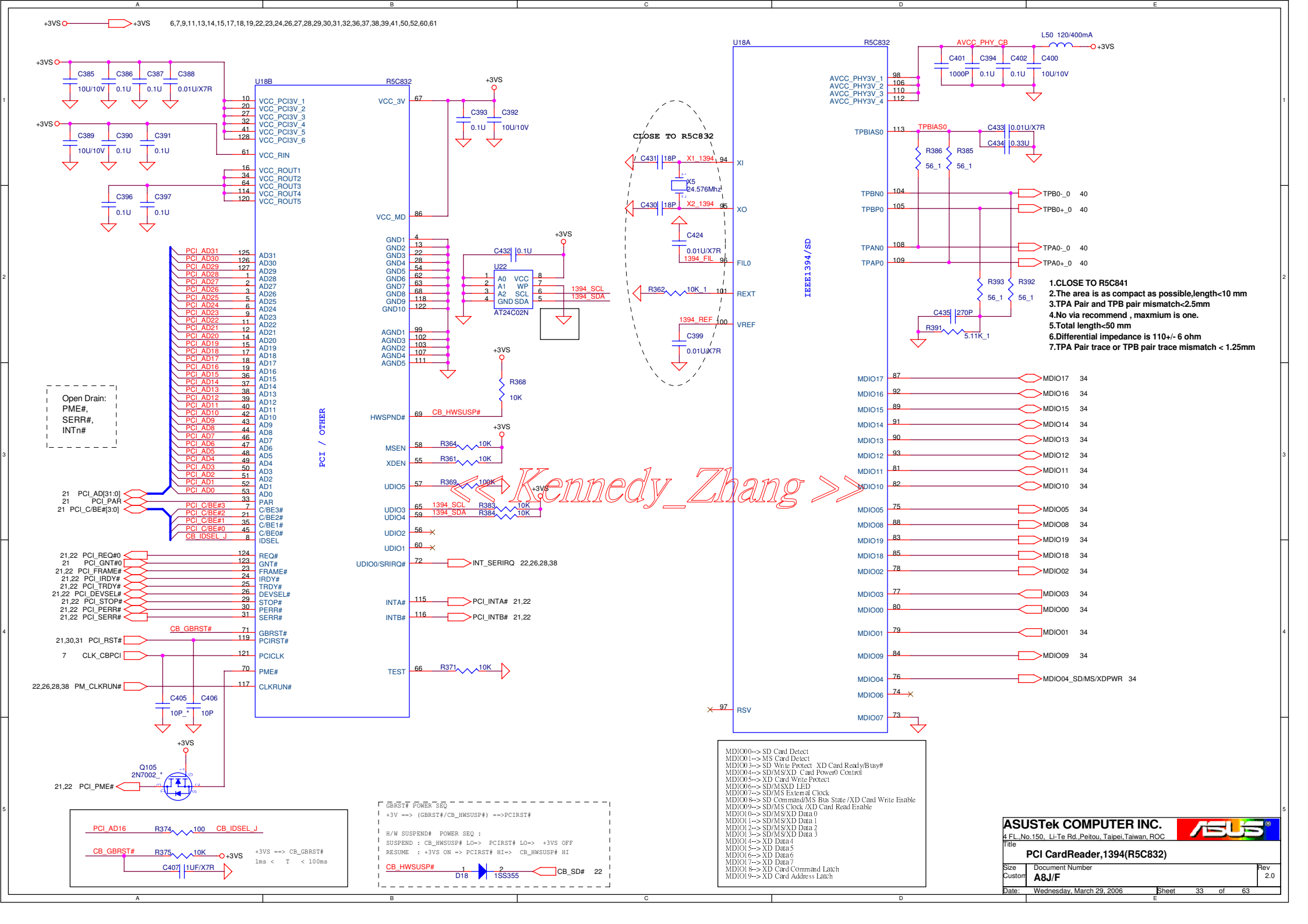


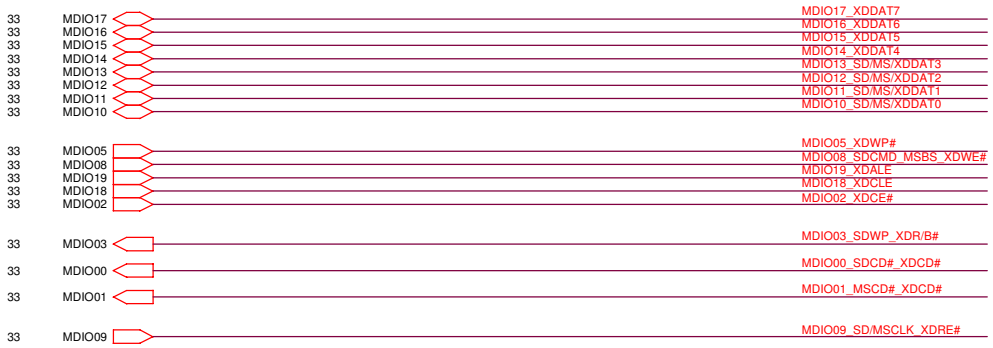
ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

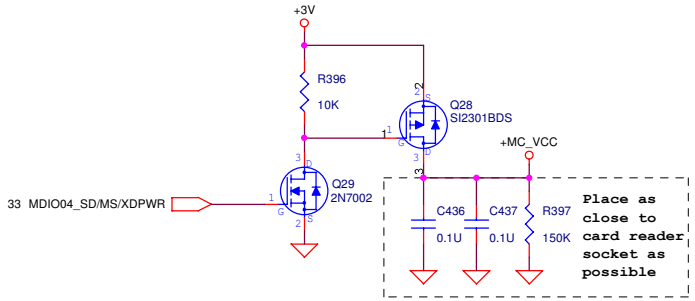
Title: **NEW CARD**

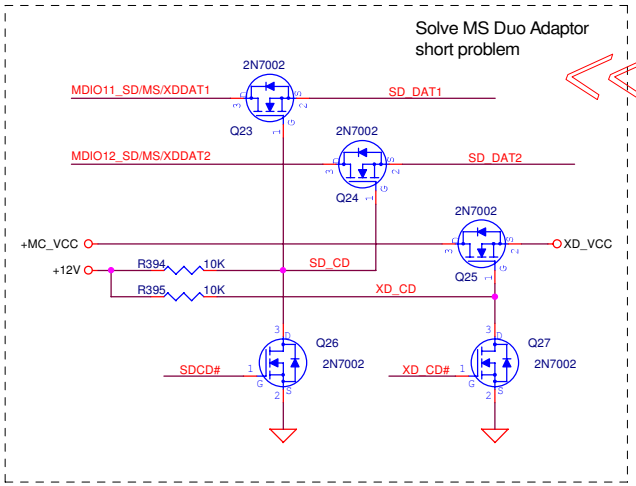
Size	Document Number	Rev
Custom	A8J/F	2.0

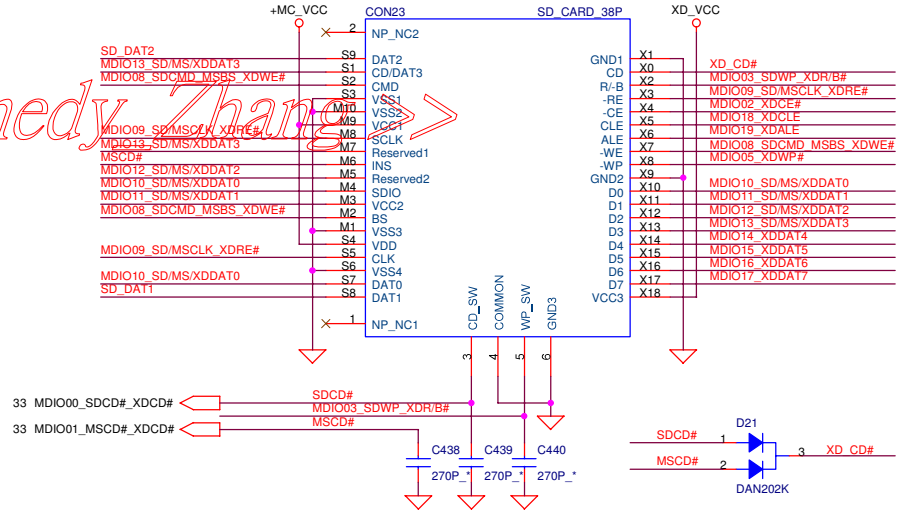
Date: Wednesday, March 29, 2006 Sheet 32 of 63

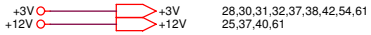

+3VS +3VS 6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,36,37,38,39,41,50,52,60,61
C385 10U/10V C386 0.1U C387 0.1U C388 0.01U/X7R
C389 10U/10V C390 0.1U C391 0.1U
C396 0.1U C397 0.1U
U18B R5C832
VCC_PCI3V_1 VCC_PCI3V_2 VCC_PCI3V_3 VCC_PCI3V_4 VCC_PCI3V_5 VCC_PCI3V_6
VCC_RIN
VCC_ROUT1 VCC_ROUT2 VCC_ROUT3 VCC_ROUT4 VCC_ROUT5
VCC_3V VCC_MD
C393 0.1U C392 10U/10V
GND1 GND2 GND3 GND4 GND5 GND6 GND7 GND8 GND9 GND10
AGND1 AGND2 AGND3 AGND4 AGND5
C432 0.1U
U22 A0 A1 A2 GND VCC WP SCL SDA
AT24C02N
1394_SCL 1394_SDA
PCI_AD31 PCI_AD30 PCI_AD29 PCI_AD28 PCI_AD27 PCI_AD26 PCI_AD25 PCI_AD24 PCI_AD23 PCI_AD22 PCI_AD21 PCI_AD20 PCI_AD19 PCI_AD18 PCI_AD17 PCI_AD16 PCI_AD15 PCI_AD14 PCI_AD13 PCI_AD12 PCI_AD11 PCI_AD10 PCI_AD9 PCI_AD8 PCI_AD7 PCI_AD6 PCI_AD5 PCI_AD4 PCI_AD3 PCI_AD2 PCI_AD1 PCI_AD0
AD31 AD30 AD29 AD28 AD27 AD26 AD25 AD24 AD23 AD22 AD21 AD20 AD19 AD18 AD17 AD16 AD15 AD14 AD13 AD12 AD11 AD10 AD9 AD8 AD7 AD6 AD5 AD4 AD3 AD2 AD1 AD0
PCI / OTHER
Open Drain: PME#, SERR#, INTn#
21 PCI_AD[31:0]
21 PCI_PAR
21 PCI_C/BE#[3:0]
PCI_C/BE#3 PCI_C/BE#2 PCI_C/BE#1 PCI_C/BE#0 CB_IDSEL_J
C/BE3# C/BE2# C/BE1# C/BE0# IDSEL PAR
21,22 PCI_REQ#0
21 PCI_GNT#0
21,22 PCI_FRAME#
21,22 PCI_IRDY#
21,22 PCI_TRDY#
21,22 PCI_DEVSEL#
21,22 PCI_STOP#
21,22 PCI_PERR#
21,22 PCI_SERR#
REQ# GNT# FRAME# IRDY# TRDY# DEVSEL# STOP# PERR# SERR#
CB_GBRST#
21,30,31 PCI_RST#
7 CLK_CBPCI
22,26,28,38 PM_CLKRUN#
GBRST# PCIRST# PCICLK PME# CLKRUN#
C405 10P_* C406 10P
Q105 2N7002_*
21,22 PCI_PME#
HWSPND# CB_HWSUSP#
R368 10K
MSEN R364 10K
XDEN R361 10K
UDIO5 R369 100K
UDIO3 1394_SCL R383 10K
UDIO4 1394_SDA R384 10K
UDIO2
UDIO1
UDIO0/SRIRQ# INT_SERIRQ 22,26,28,38
INTA# PCI_INTA# 21,22
INTB# PCI_INTB# 21,22
TEST R371 10K
CLOSE TO R5C832
C431 18P X1_1394 X5 24.576Mhz X2_1394 C430 18P
C424 0.01U/X7R
1394_FIL
R362 10K_1
1394_REF C399 0.01U/X7R
XI XO FIL0 REXT VREF
IEEE1394/SD
U18A R5C832
RSV
AVCC_PHY3V_1 AVCC_PHY3V_2 AVCC_PHY3V_3 AVCC_PHY3V_4
AVCC_PHY_CB L50 120/400mA
C401 1000P C394 0.1U C402 0.1U C400 10U/10V
TPBIAS0 C433 0.01U/X7R C434 0.33U
R386 56_1 R385 56_1
TPBN0 TPBP0 TPAN0 TPAP0
TPB0-_0 TPB0+_0 TPA0-_0 TPA0+_0
R393 56_1 R392 56_1
C435 270P R391 5.11K_1
1.CLOSE TO R5C841
2.The area is as compact as possible,length<10 mm
3.TPA Pair and TPB pair mismatch<2.5mm
4.No via recommend , maxmium is one.
5.Total length<50 mm
6.Differential impedance is 110+/- 6 ohm
7.TPA Pair trace or TPB pair trace mismatch < 1.25mm
MDIO17 MDIO16 MDIO15 MDIO14 MDIO13 MDIO12 MDIO11 MDIO10 MDIO05 MDIO08 MDIO19 MDIO18 MDIO02 MDIO03 MDIO00 MDIO01 MDIO09 MDIO04_SD/MS/XDPWR MDIO06 MDIO07
MDIO000--> SD Card Detect
MDIO001--> MS Card Detect
MDIO002--> SD Write Protect XD Card Ready/Busy#
MDIO004--> SD/MS/XD Card Power0 Control
MDIO005--> XD Card Write Protect
MDIO006--> SD/MSXD LED
MDIO007--> SD/MS External Clock
MDIO008--> SD Command/MS Bus State /XD Card Write Enable
MDIO009--> SD/MS Clock /XD Card Read Enable
MDIO010--> SD/MS/XD Data 0
MDIO011--> SD/MS/XD Data 1
MDIO012--> SD/MS/XD Data 2
MDIO013--> SD/MS/XD Data 3
MDIO014--> XD Data 4
MDIO015--> XD Data 5
MDIO016--> XD Data 6
MDIO017--> XD Data 7
MDIO018--> XD Card Command Latch
MDIO019--> XD Card Address Latch
PCI_AD16 R374 100 CB_IDSEL_J
CB_GBRST# R375 10K +3VS
C407 1UF/X7R
+3VS ==> CB_GBRST#
1ms < T < 100ms
GBRST# POWER SEQ
+3V ==> (GBRST#/CB_HWSUSP#) ==>PCIRST#
H/W SUSPEND# POWER SEQ :
SUSPEND : CB_HWSUSP# LO=> PCIRST# LO=> +3VS OFF
RESUME : +3VS ON => PCIRST# HI=> CB_HWSUSP# HI
CB_HWSUSP# D18 1SS355 CB_SD# 22
<Kennedy_Zhang>
ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC
Title
PCI CardReader,1394(R5C832)
Size Custom
Document Number A8J/F
Rev 2.0
Date: Wednesday, March 29, 2006
Sheet 33 of 63







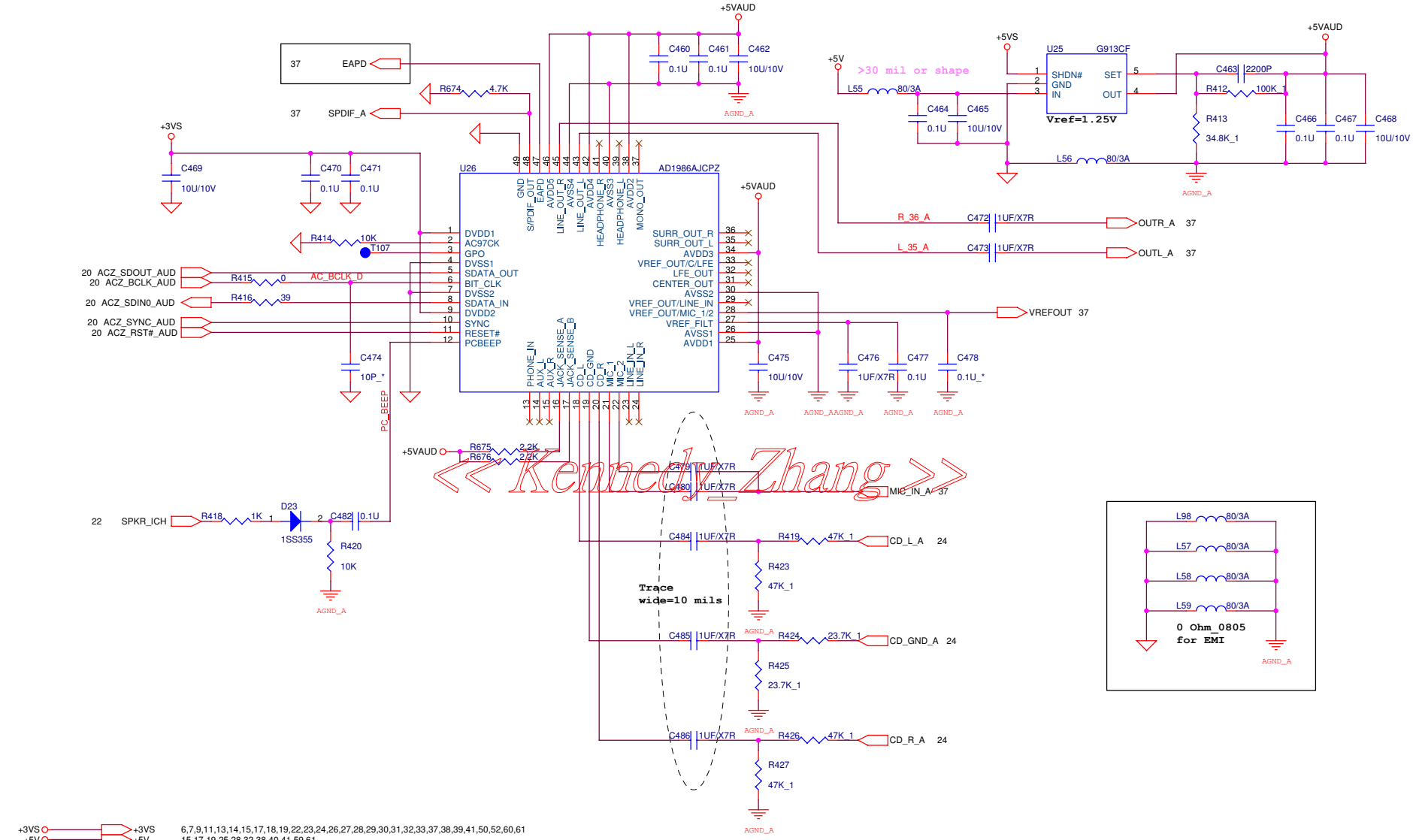




ASUSTek COMPUTER INC.			
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC			
Title: 4 IN 1 CONN			
Size: Custom	Document Number: A8J/F		Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 34 of 63		

<< Kennedy_Zhang >>

ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title	Empty	
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 35 of 63	



ASUSTek COMPUTER INC.	
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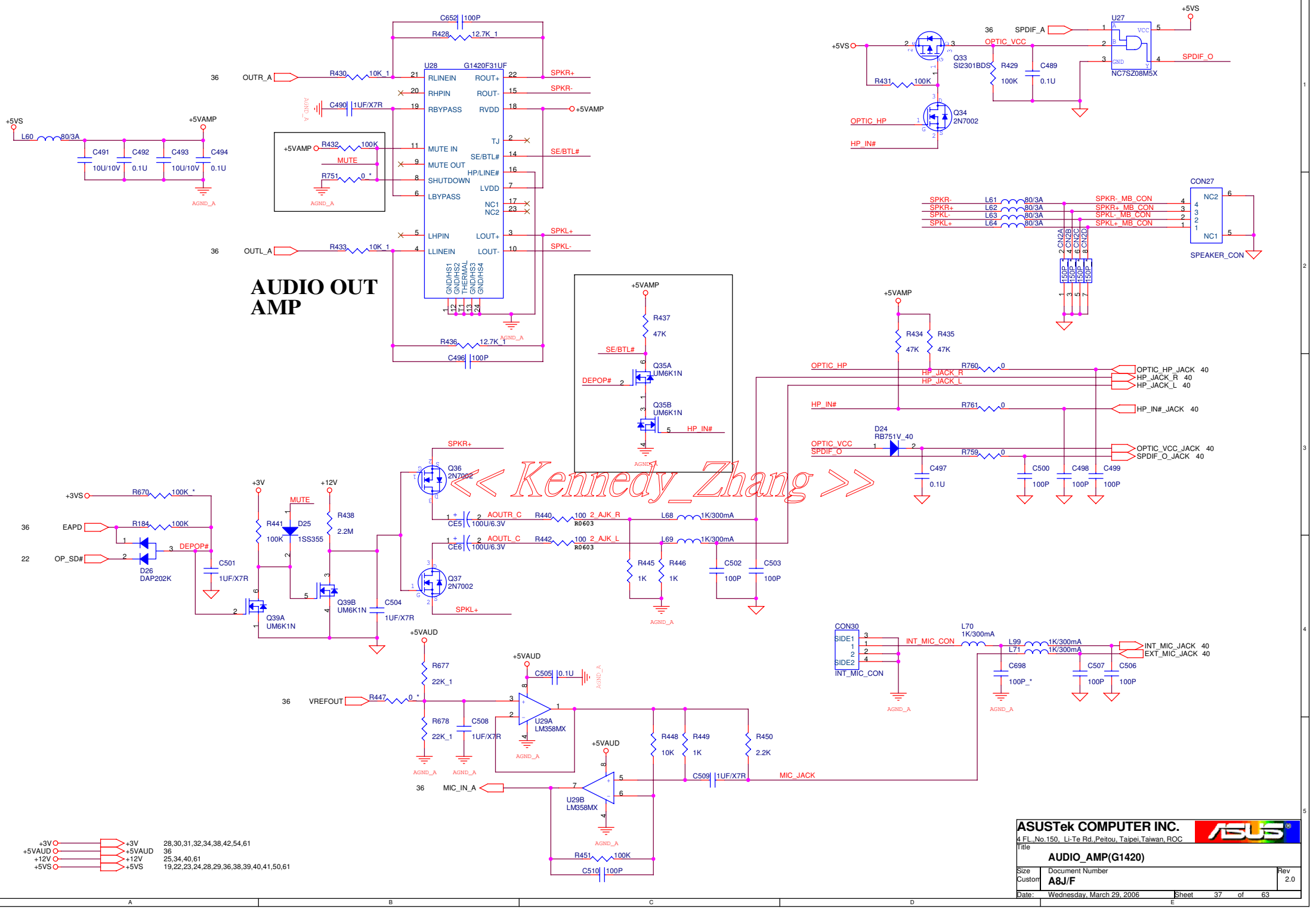
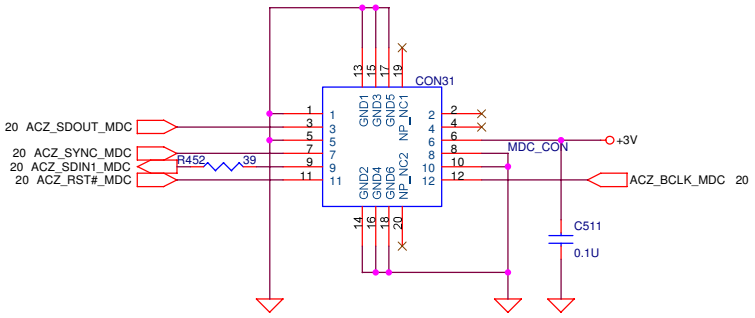
Title	ADI1986A
Size: Custom	Document Number: A8J/F
Rev	2.0
Date: Wednesday, March 29, 2006	Sheet 36 of 63

AUDIO OUT AMP

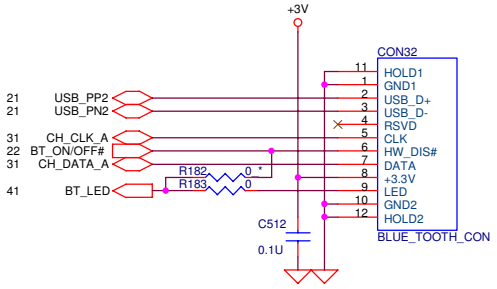


ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

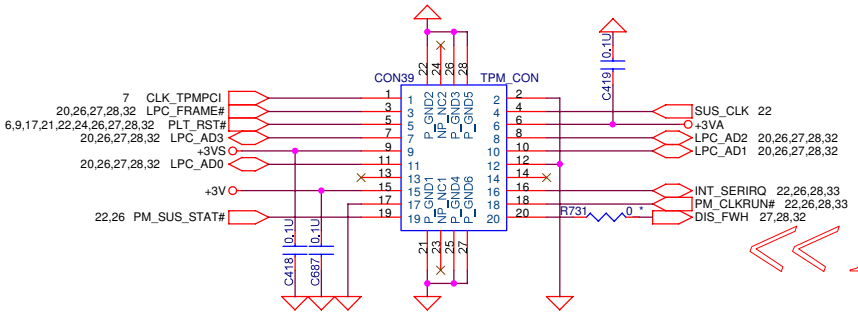
Title	AUDIO_AMP(G1420)	
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 37 of 63	



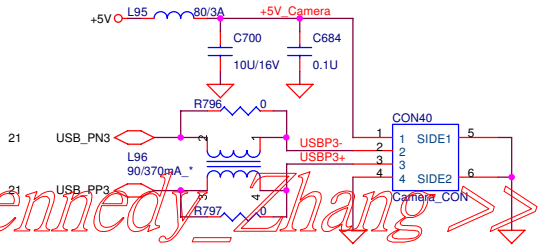
Azalia MDC MODEM CON



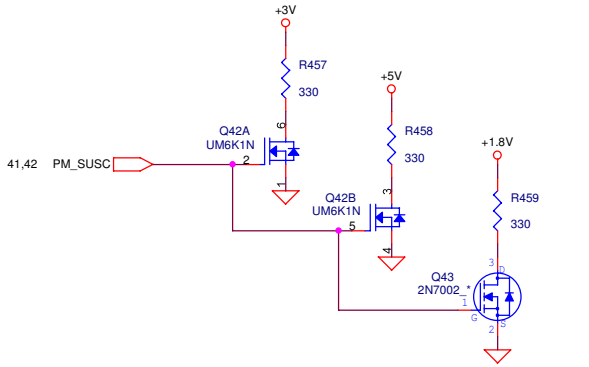
Bluetooth Module CON

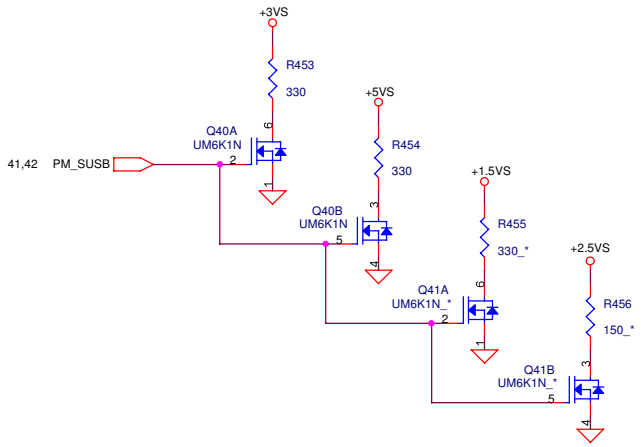


TPM Module CON

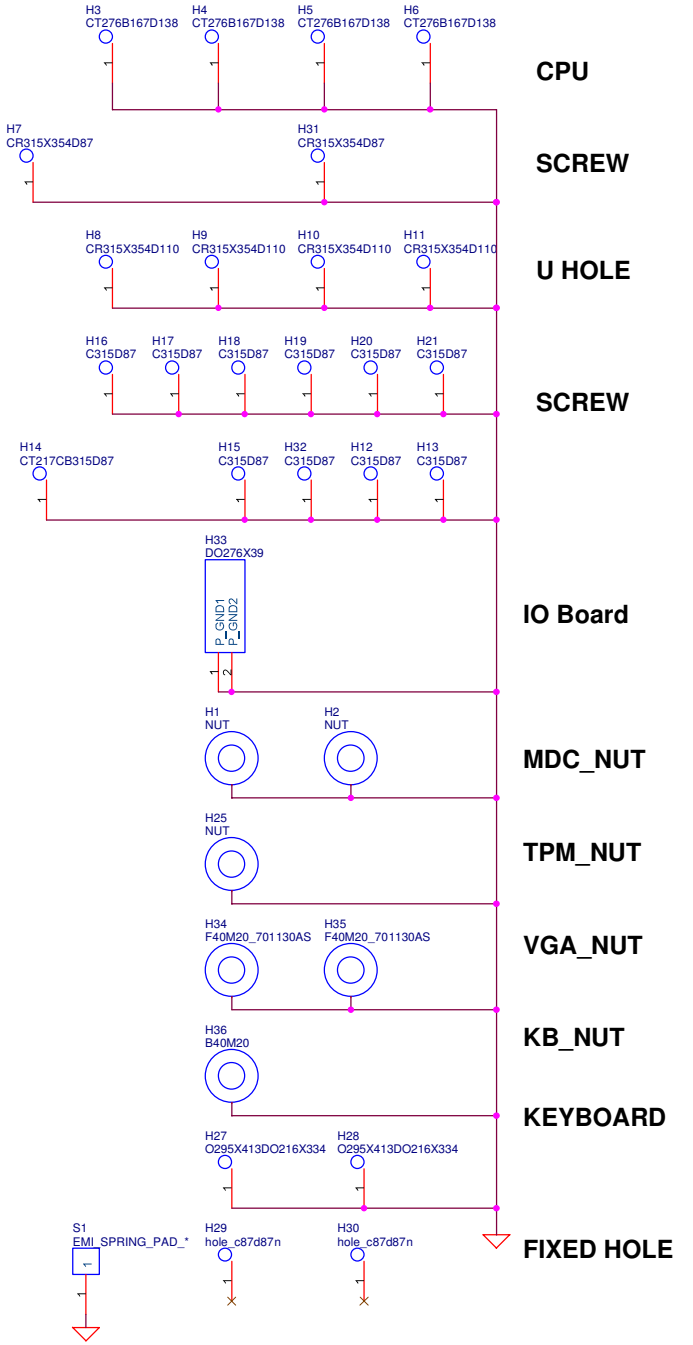


Camera Module CON





+1.5VS	+1.5VS	5,9,11,12,17,23,31,32,52
+1.8V	+1.8V	9,12,14,15,53
+2.5VS	+2.5VS	11,17,19,54
+3V	+3V	28,30,31,32,34,37,42,54,61
+3VS	+3VS	6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,33,36,37,39,41,50,52,60,61
+5V	+5V	15,17,19,25,28,32,36,40,41,59,61
+5VS	+5VS	19,22,23,24,28,29,36,37,39,40,41,50,61

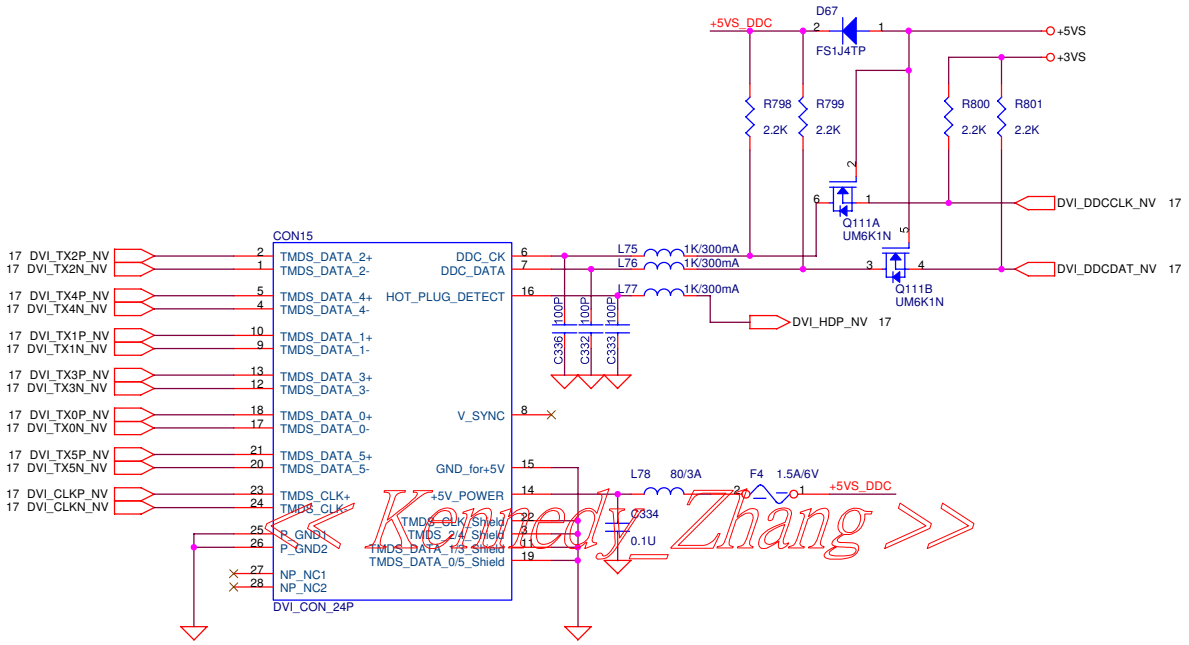


ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC

Title: MDC,B/T,TPM,Camera & DISCHG,HOLE

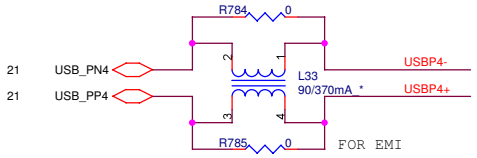
Size	Document Number	Rev
Custom	A8J/F	2.0

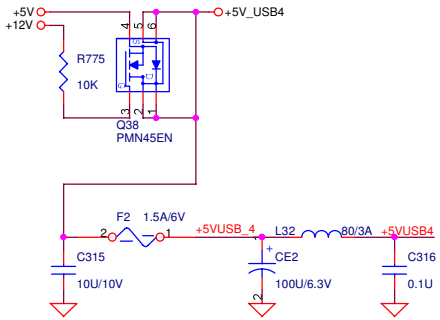
Date: Wednesday, March 29, 2006 Sheet 38 of 63

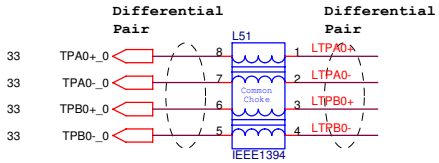


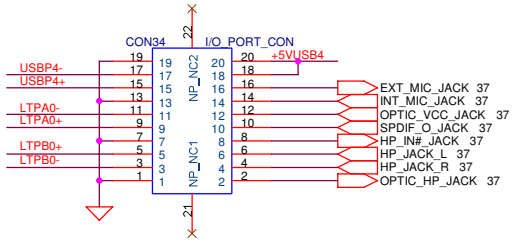
+5VS +5VS 19,22,23,24,28,29,36,37,38,40,41,50,61

ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: DVI CONN		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 39 of 63	

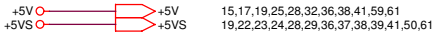


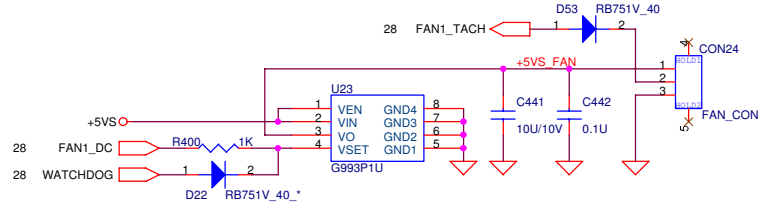




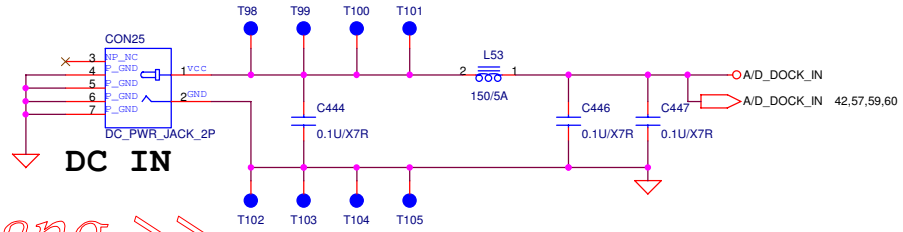


I/O PORT



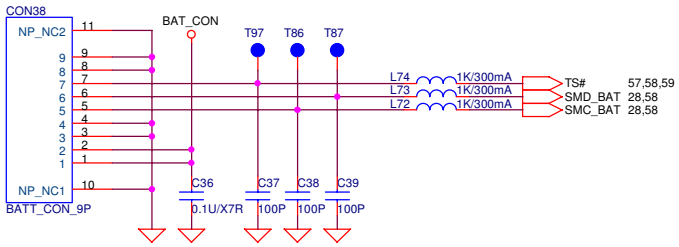


FAN CONTROL



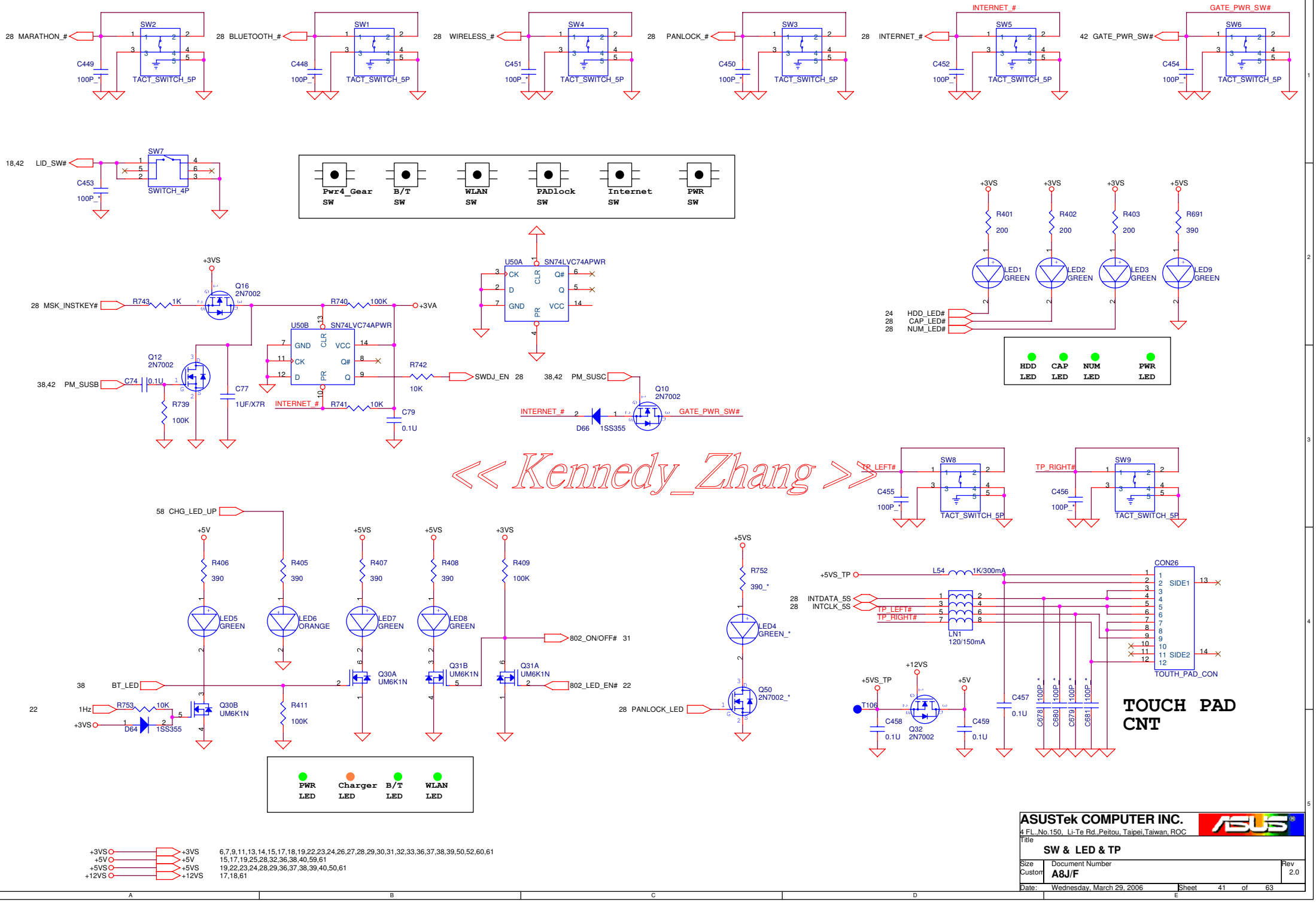
DC IN

ACIN_CONN



BAT_CONN

ASUSTek COMPUTER INC.	
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC	
Title	FAN_CTRL & ACIN & BAT & I/O PORT
Size: Custom	Document Number: A8J/F
Rev	2.0
Date: Wednesday, March 29, 2006	Sheet 40 of 63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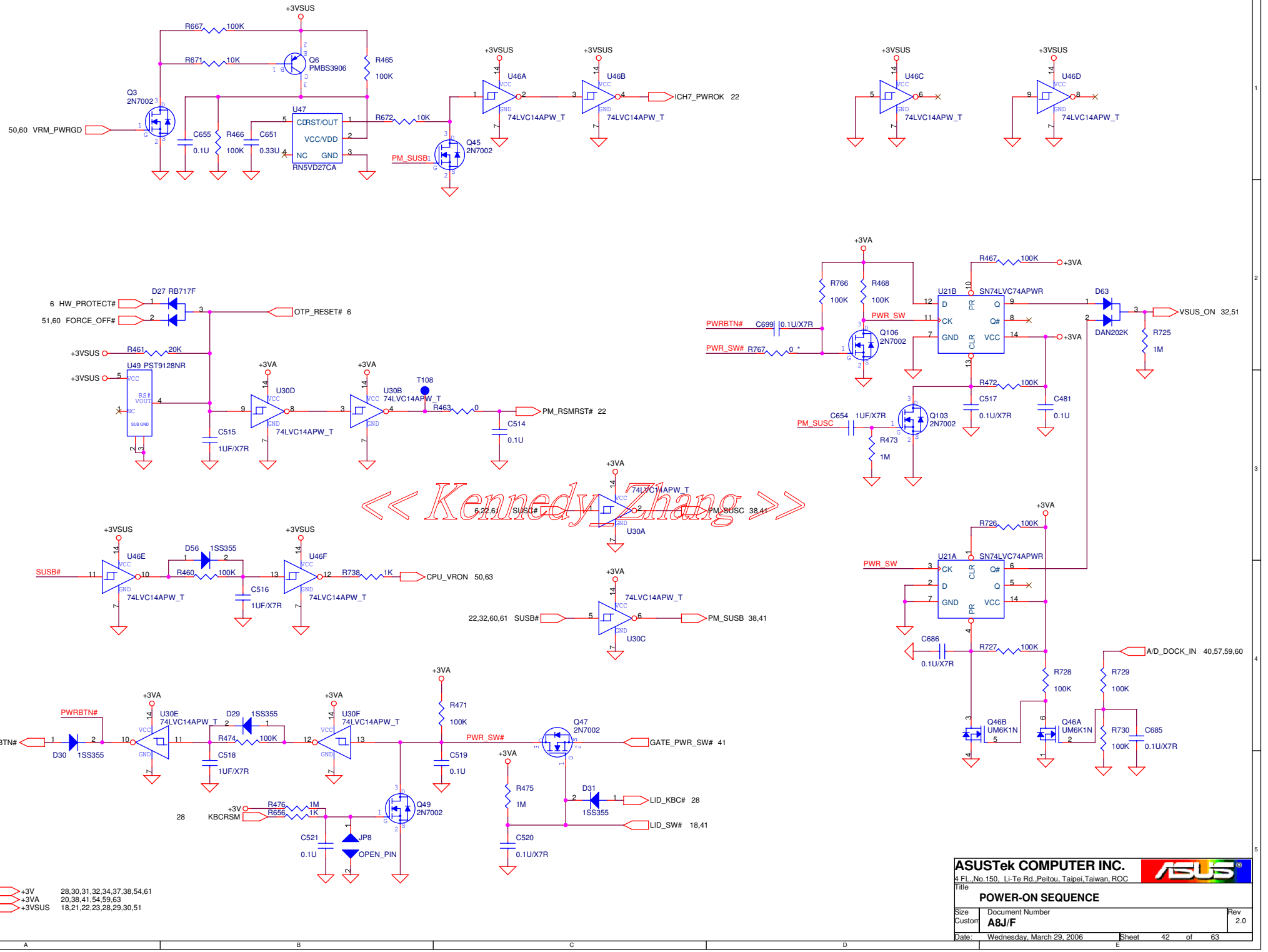
SW2
C449
100P_*
TACT_SWITCH_5P
28 BLUETOOTH_#
SW1
C448
28 WIRELESS_#
SW4
C451
28 PANLOCK_#
SW3
C450
28 INTERNET_#
INTERNET_#
SW5
C452
42 GATE_PWR_SW#
GATE_PWR_SW#
SW6
C454
18,42 LID_SW#
SW7
C453
SWITCH_4P
Pwr4_Gear SW
B/T SW
WLAN SW
PADlock SW
Internet SW
PWR SW
+3VS
R401
200
LED1 GREEN
R402
LED2 GREEN
R403
LED3 GREEN
+5VS
R691
390
LED9 GREEN
24 HDD_LED#
28 CAP_LED#
28 NUM_LED#
HDD LED
CAP LED
NUM LED
PWR LED
28 MSK_INSTKEY#
R743
1K
Q16
2N7002
R740
100K
+3VA
U50A
SN74LVC74APWR
CK
D
GND
CLR
PR
Q#
Q
VCC
U50B
Q12
2N7002
38,42 PM_SUSB
C74
0.1U
C77
1UF/X7R
R739
100K
INTERNET_#
R741
10K
C79
0.1U
R742
10K
SWDJ_EN 28
38,42 PM_SUSC
Q10
2N7002
INTERNET_#
D66
1SS355
GATE_PWR_SW#
<< Kennedy_Zhang >>
TP_LEFT#
SW8
C455
100P_*
TACT_SWITCH_5P
TP_RIGHT#
SW9
C456
58 CHG_LED_UP
+5V
R406
390
LED5 GREEN
R405
LED6 ORANGE
+5VS
R407
LED7 GREEN
R408
LED8 GREEN
+3VS
R409
100K
802_ON/OFF# 31
38 BT_LED
22
1Hz
R753
10K
+3VS
D64
1SS355
Q30B
UM6K1N
Q30A
UM6K1N
R411
100K
Q31B
UM6K1N
Q31A
UM6K1N
802_LED_EN# 22
R752
390_*
LED4 GREEN_*
28 PANLOCK_LED
Q50
2N7002_*
+5VS_TP
L54
1K/300mA
28 INTDATA_5S
28 INTCLK_5S
TP_LEFT#
TP_RIGHT#
LN1
120/150mA
CON26
SIDE1
SIDE2
TOUTH_PAD_CON
+12VS
T106
C458
0.1U
Q32
2N7002
C459
0.1U
C457
0.1U
100P_*
C678
C680
C679
C681
TOUCH PAD CNT
PWR LED
Charger LED
B/T LED
WLAN LED
+3VS +3VS 6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,33,36,37,38,39,50,52,60,61
+5V +5V 15,17,19,25,28,32,36,38,40,59,61
+5VS +5VS 19,22,23,24,28,29,36,37,38,39,40,50,61
+12VS +12VS 17,18,61
ASUSTek COMPUTER INC.
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC
Title
SW & LED & TP
Size Custom
Document Number A8J/F
Rev 2.0
Date: Wednesday, March 29, 2006
Sheet 41 of 63



ASUSTek COMPUTER INC.	
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC	
Title	**POWER-ON SEQUENCE**
Size: Custom	Document Number: **A8J/F**
Rev	2.0
Date: Wednesday, March 29, 2006	Sheet 42 of 63

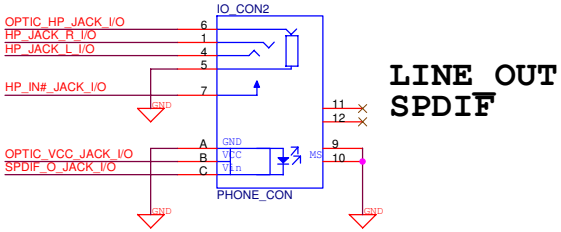
Revision History

Power:

System:

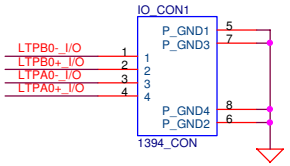
<< Kennedy_Zhang >>

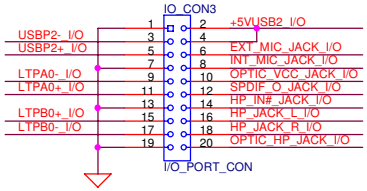
ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: HISTORY		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 43 of 63	

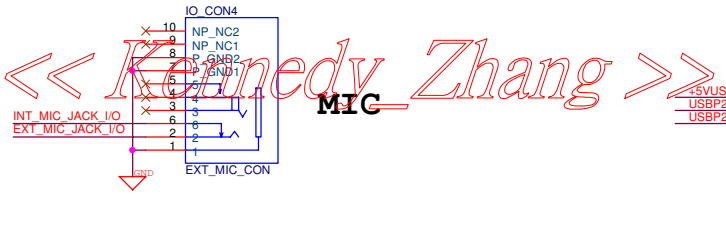


LINE OUT
SPDIF

1394A

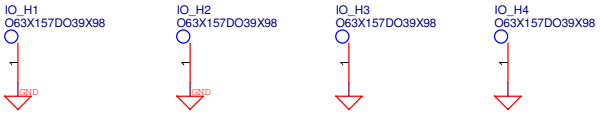


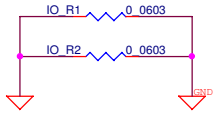




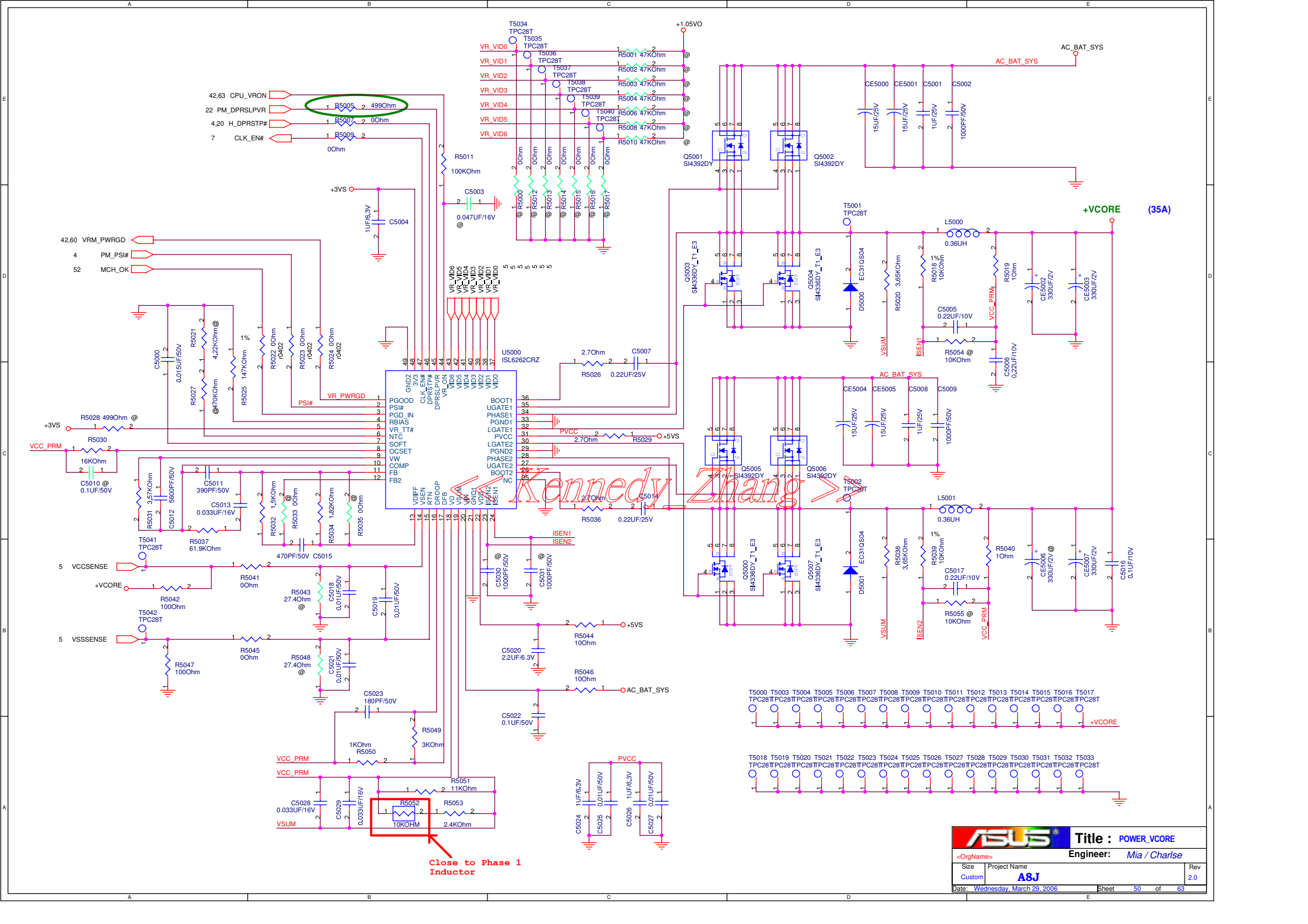
MIC

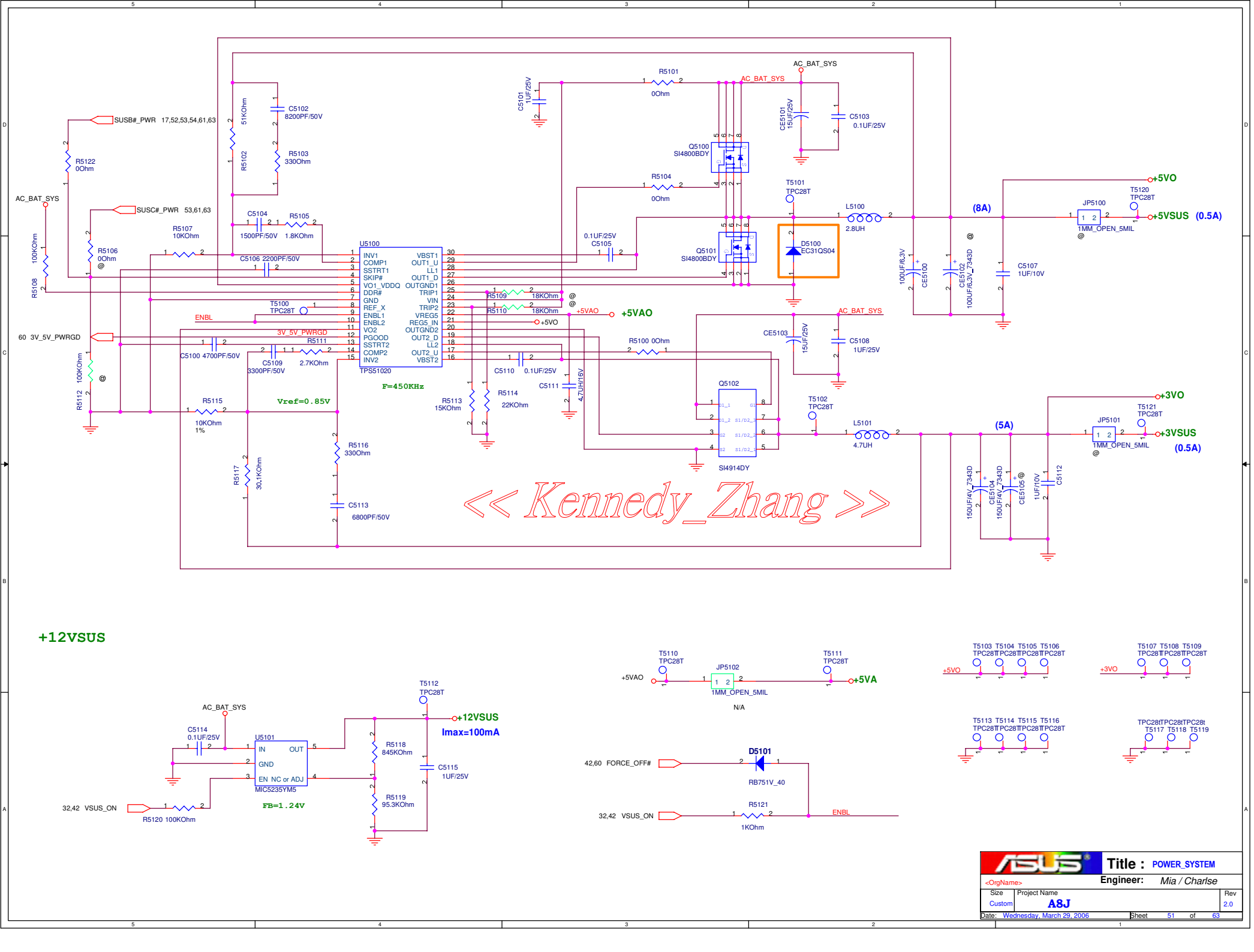
USB





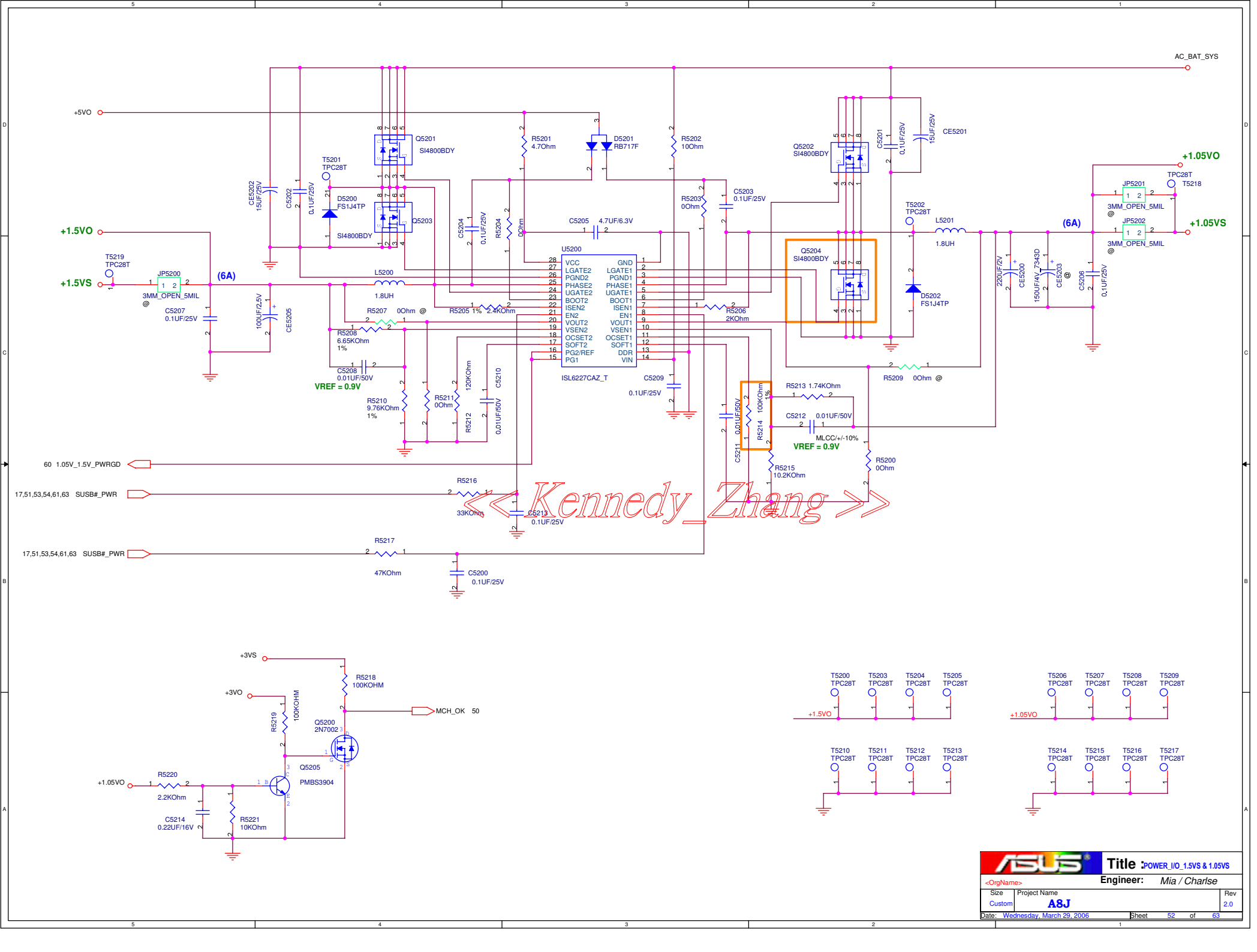
ASUSTek COMPUTER INC.		
4 FL.,No.150, Li-Te Rd.,Peitou, Taipei,Taiwan, ROC		
Title: I/O PORT		
Size: Custom	Document Number: A8J/F	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 44 of 63	

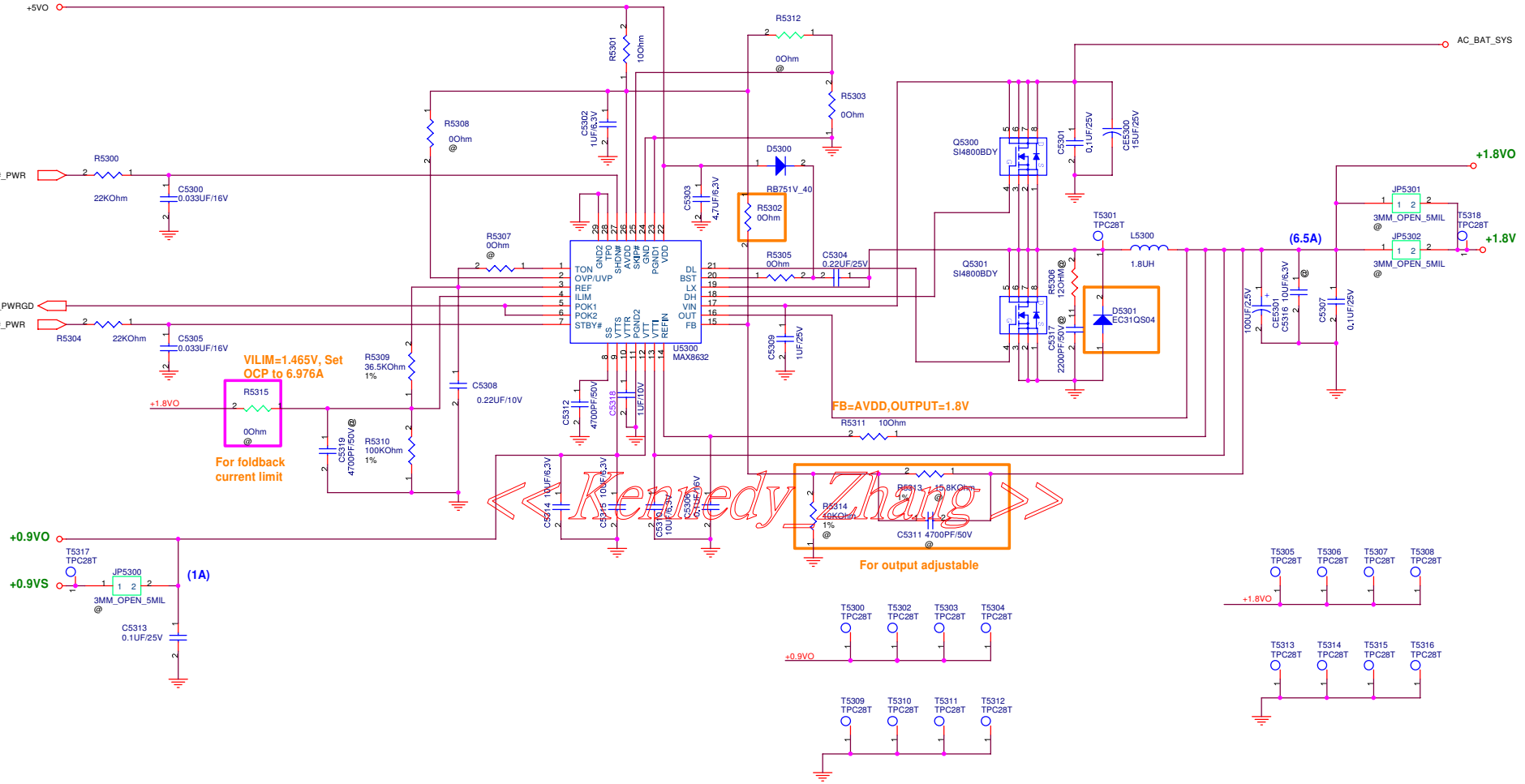

+VCORE (35A)
AC_BAT_SYS
+1.05VO
U5000 ISL6262CRZ
Q5001 SI4392DY
Q5002 SI4392DY
Q5003 SI4336DY_T1_E3
Q5004 SI4336DY_T1_E3
Q5005 SI4392DY
Q5006 SI4392DY
Q5000 SI4336DY_T1_E3
Q5007 SI4336DY_T1_E3
D5000 EC31QS04
D5001 EC31QS04
L5000 0.36UH
L5001 0.36UH
VR_PWRGD
PSI#
PVCC
VCC_PRM
VSUM
ISEN1
ISEN2
Close to Phase 1 Inductor
Kennedy Zhang
Title : POWER_VCORE
Engineer: Mia / Charlse
Project Name A8J
Size Custom
Rev 2.0
Date: Wednesday, March 29, 2006
Sheet 50 of 63



+12VSUS

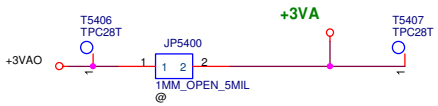
ASUS	Title : POWER_SYSTEM	
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 51 of 63	

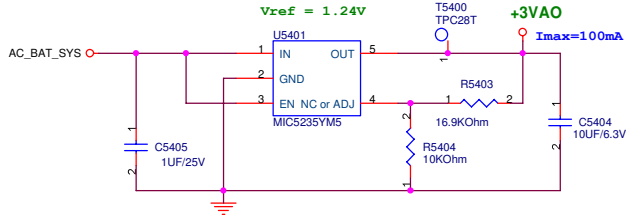

AC_BAT_SYS
+5VO
+1.5VO
+1.5VS
+1.05VO
+1.05VS
(6A)
U5200
ISL6227CAZ_T
VCC
LGATE2
PGND2
PHASE2
UGATE2
BOOT2
ISEN2
EN2
VOUT2
VSEN2
OCSET2
SOFT2
PG2/REF
PG1
GND
LGATE1
PGND1
PHASE1
UGATE1
BOOT1
ISEN1
EN1
VOUT1
VSEN1
OCSET1
SOFT1
DDR
VIN
Q5201 SI4800BDY
Q5203 SI4800BDY
Q5202 SI4800BDY
Q5204 SI4800BDY
D5200 FS1J4TP
D5201 RB717F
D5202 FS1J4TP
L5200 1.8UH
L5201 1.8UH
R5201 4.7Ohm
R5202 10Ohm
R5203 0Ohm
R5204 0Ohm
R5205 1% 2.4KOhm
R5206 2KOhm
R5207 0Ohm @
R5208 6.65KOhm 1%
R5209 0Ohm @
R5210 9.76KOhm 1%
R5211 0Ohm
R5212 120KOhm
R5213 1.74KOhm
R5214 100KOhm 1%
R5215 10.2KOhm
R5216 33KOhm
R5217 47KOhm
R5200 0Ohm
C5200 0.1UF/25V
C5201 0.1UF/25V
C5202 0.1UF/25V
C5203 0.1UF/25V
C5204 0.1UF/25V
C5205 4.7UF/6.3V
C5206 0.1UF/25V
C5207 0.1UF/25V
C5208 0.01UF/50V
C5209 0.1UF/25V
C5210 0.01UF/50V
C5211 0.01UF/50V
C5212 0.01UF/50V
C5213 0.1UF/25V
CE5201 15UF/25V
CE5202 15UF/25V
CE5203 150UF/4V_7343D
CE5205 100UF/2.5V
CE5200 220UF/2V
JP5200 3MM_OPEN_5MIL @
JP5201 3MM_OPEN_5MIL @
JP5202 3MM_OPEN_5MIL @
T5201 TPC28T
T5202 TPC28T
T5218 TPC28T
T5219 TPC28T
VREF = 0.9V
MLCC/+/-10%
60 1.05V_1.5V_PWRGD
17,51,53,54,61,63 SUSB#_PWR
17,51,53,54,61,63 SUSB#_PWR
+3VS
+3VO
+1.05VO
R5218 100KOHM
R5219 100KOHM
R5220 2.2KOhm
R5221 10KOhm
C5214 0.22UF/16V
Q5200 2N7002
Q5205 PMBS3904
MCH_OK 50
T5200 TPC28T
T5203 TPC28T
T5204 TPC28T
T5205 TPC28T
T5206 TPC28T
T5207 TPC28T
T5208 TPC28T
T5209 TPC28T
T5210 TPC28T
T5211 TPC28T
T5212 TPC28T
T5213 TPC28T
T5214 TPC28T
T5215 TPC28T
T5216 TPC28T
T5217 TPC28T
<< Kennedy_Zhang >>
Title : POWER_I/O_1.5VS & 1.05VS
<OrgName>
Engineer: Mia / Charlse
Size Custom
Project Name A8J
Rev 2.0
Date: Wednesday, March 29, 2006
Sheet 52 of 63



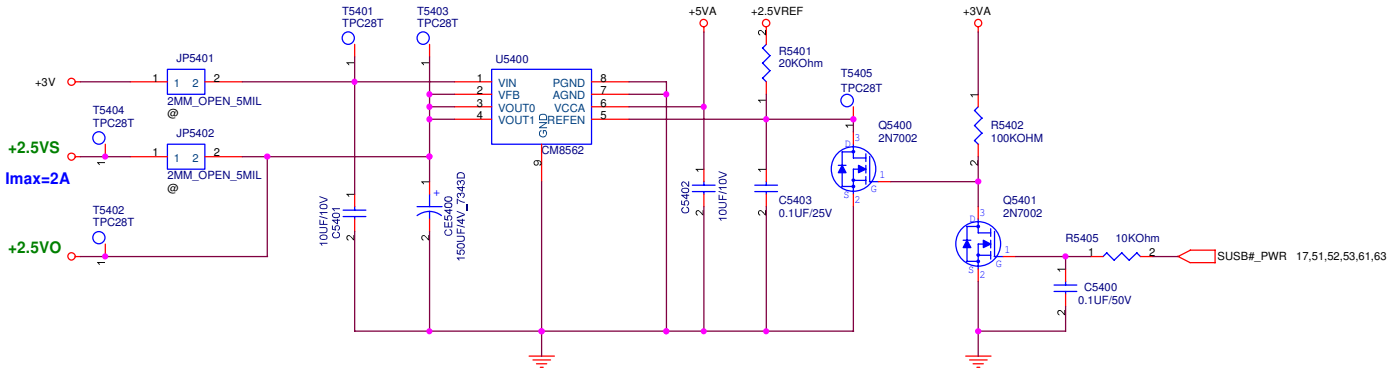
Title :	POWER_I/O_DDR & VTT	
<OrgName>	Engineer:	Mia / Charlse
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 53 of 63	

+3VAO



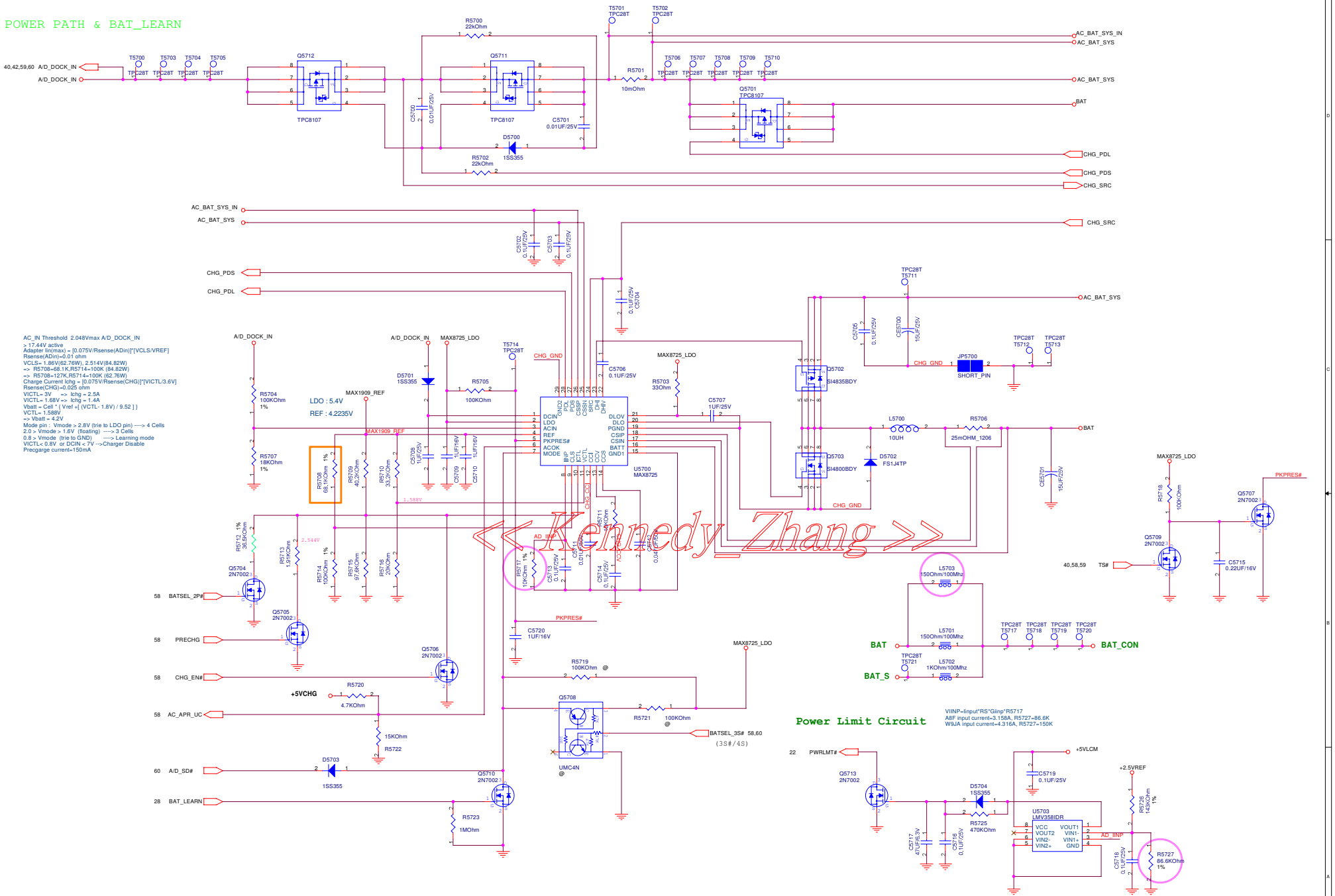


+2.5VS



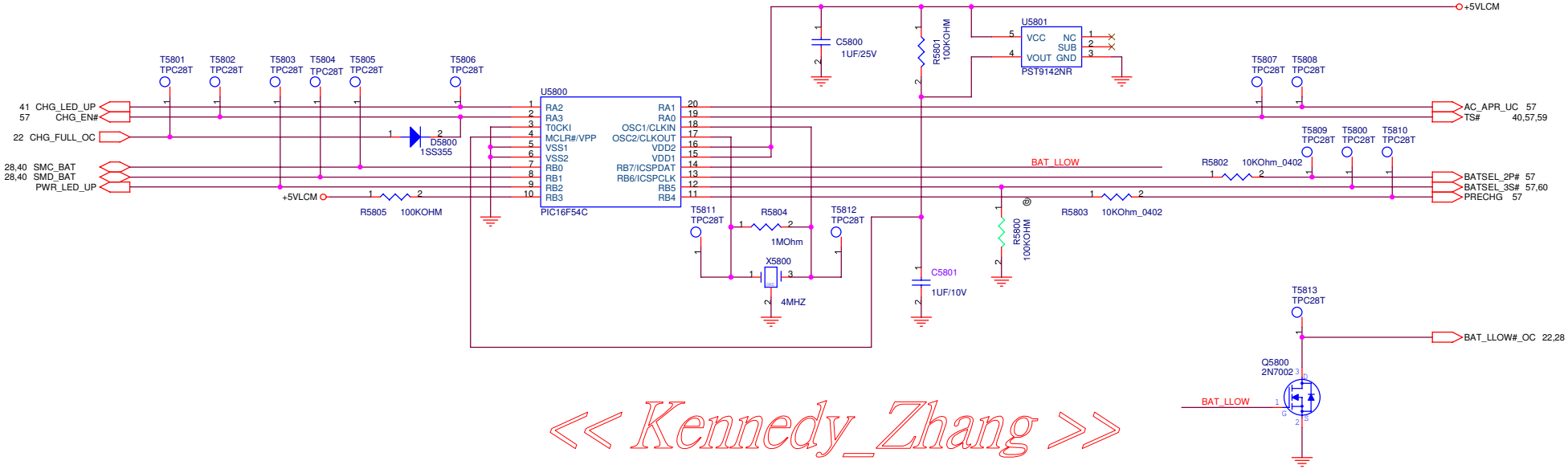
ASUS	Title : POWER_I/O_+3VA & +2.5V	
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 54 of 63	

POWER PATH & BAT_LEARN



Title :	POWER_VGA_RAM
<OrgName>	Engineer: Mia / Charlse
Size: Custom	Project Name: A8J
Rev: 2.0	
Date: Wednesday, March 29, 2006	Sheet 57 of 57

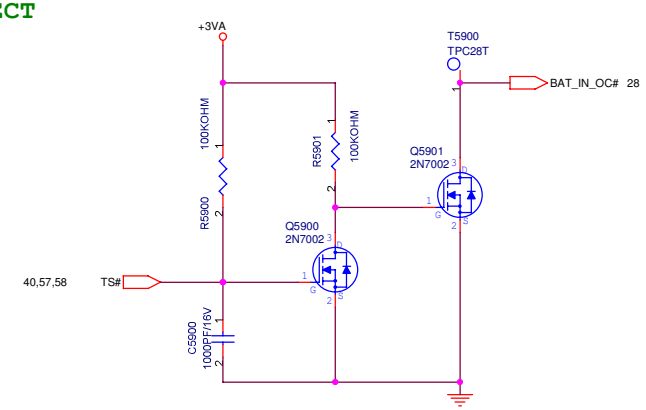
PIC16F54C



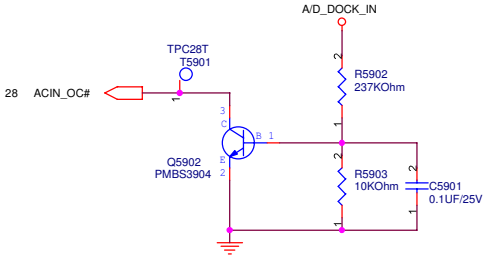
<< Kennedy_Zhang >>

ASUS	Title : POWER_PIC	
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 58 of 63	

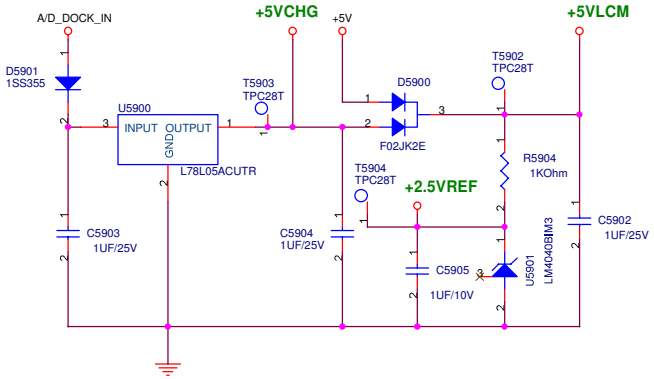
BATTERY IN DETECT



ADAPTER IN DETECT

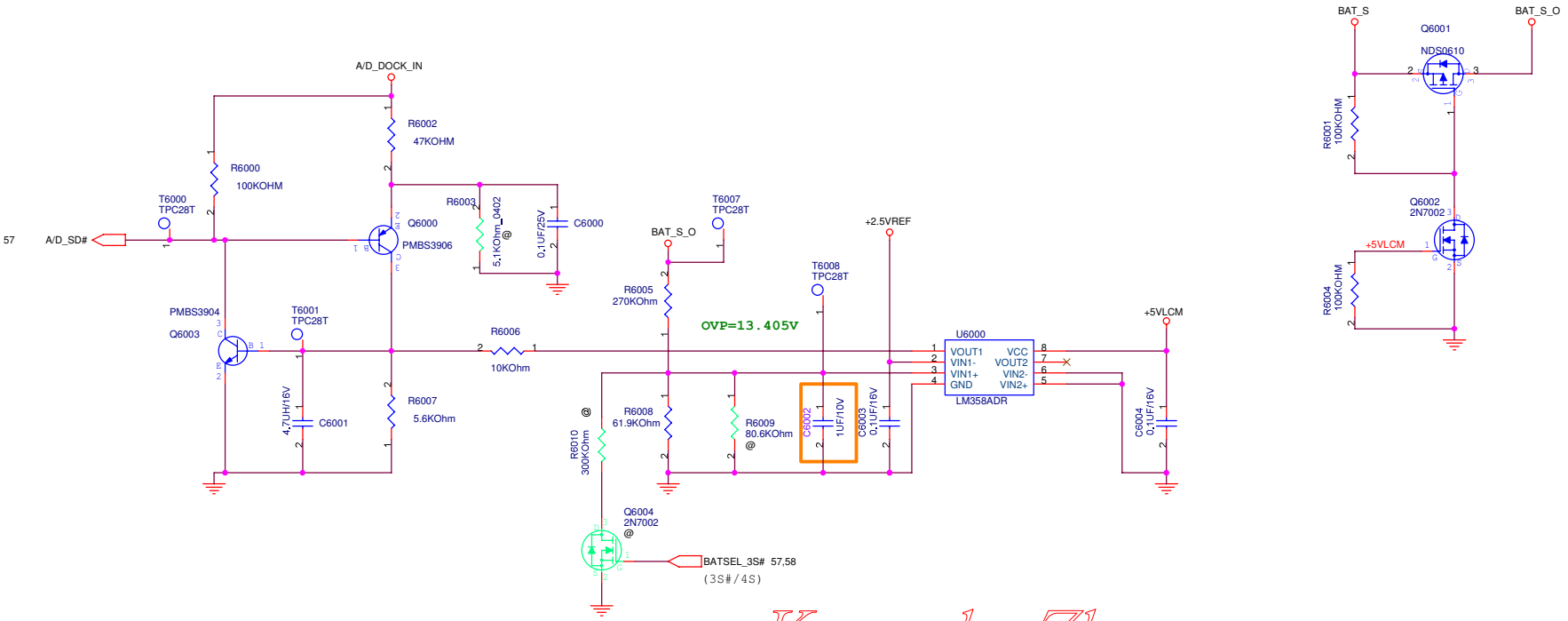


+5VLCM, +5VCHG & +2.5VREF

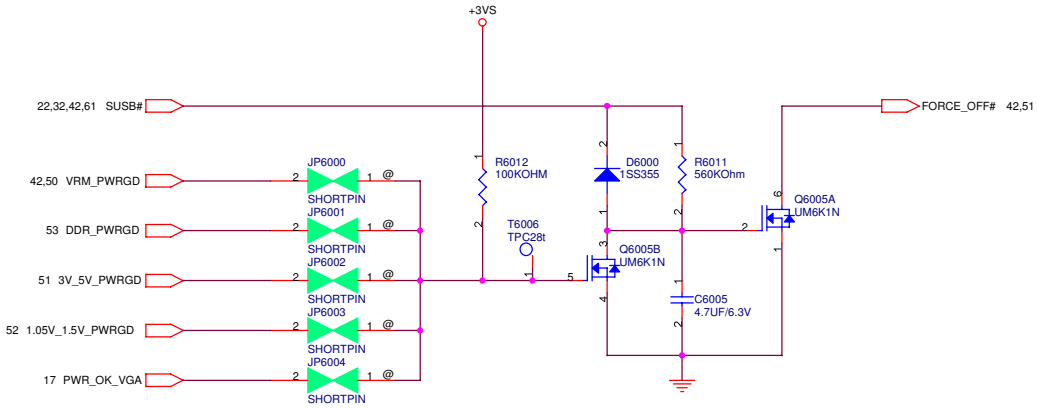


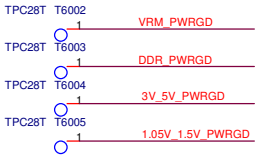
Title : POWER_DETECT		
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 59 of 63	

BATTERY A/D_SD# (OVP)



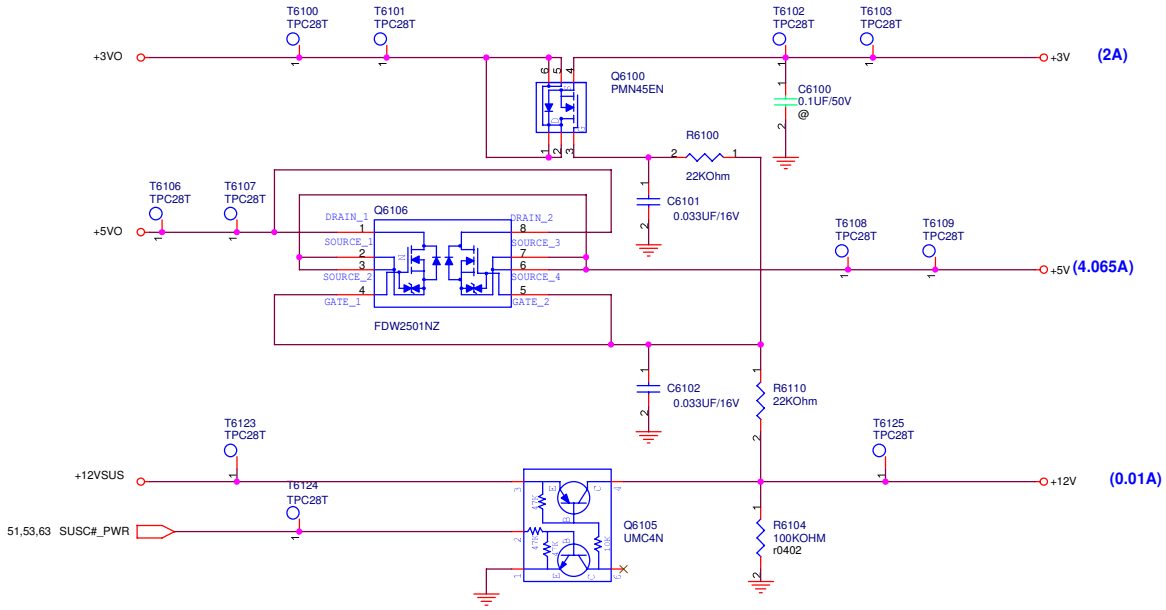
POWER GOOD DETECTER

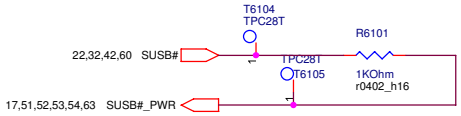




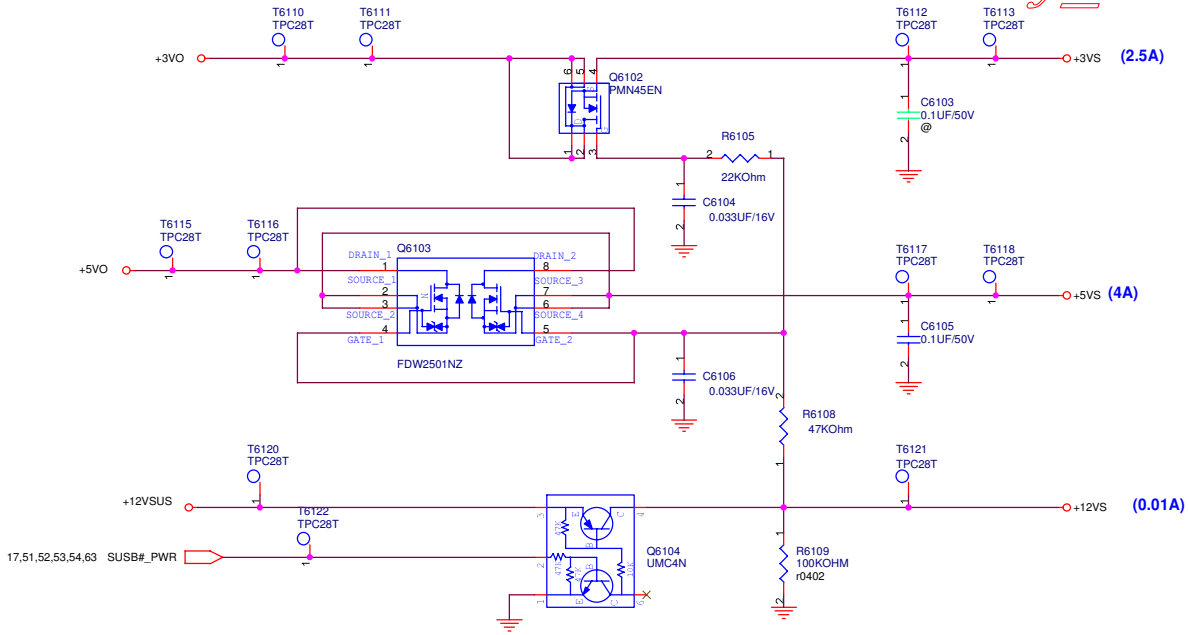
ASUS	Title : POWER_PROTECT	
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 60 of 63	

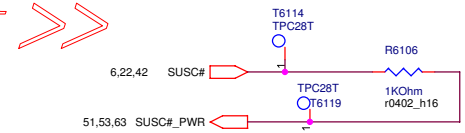
SUSC#_PWR POWER

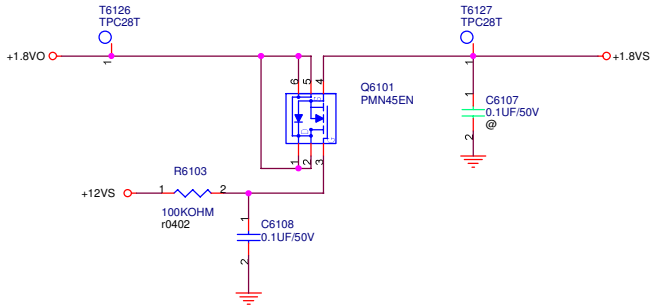




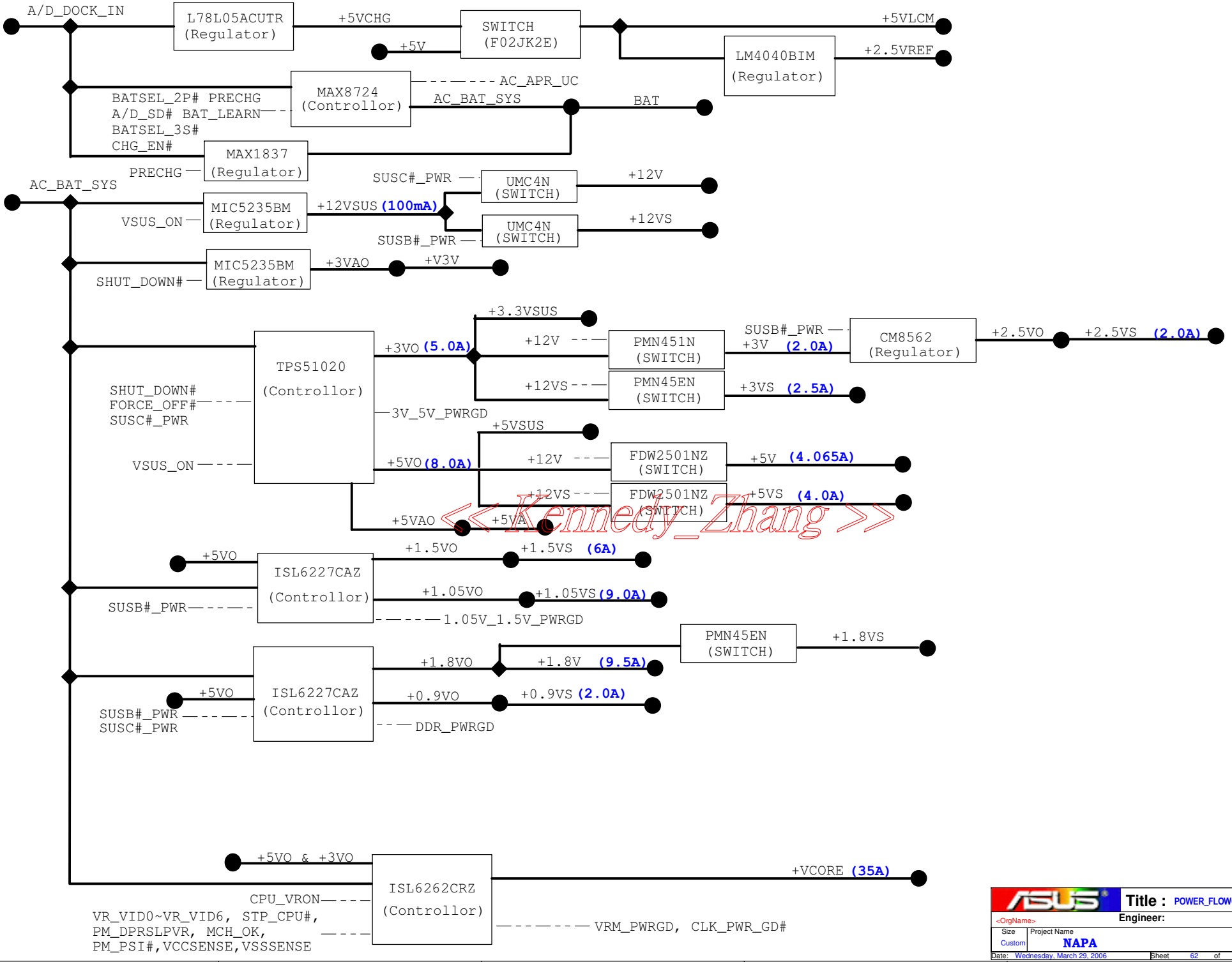
SUSB#_PWR POWER







ASUS	Title : POWER_LOAD SWITCH	
<OrgName>	Engineer: Mia / Charlse	
Size: Custom	Project Name: A8J	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 61 of 63	



Title : POWER_FLOWCHART		
<OrgName>	Engineer:	
Size: Custom	Project Name: NAPA	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 62 of 63	

AC_BAT_SYS → AC_BAT_SYS 17,18,50,51,52,53,54,57

+3VA → +3VA 20,38,41,42,54,59

+5VA → +5VA 6,51,54

+5VO → +5VO 51,52,53,61

+3VO → +3VO 51,52,61

+3V → +3V 28,30,31,32,34,37,38,42,54,61

+3VS → +3VS 6,7,9,11,13,14,15,17,18,19,22,23,24,26,27,28,29,30,31,32,33,36,37,38,39,41,50,52,60,61

+12VSUS → +12VSUS 51,61

+12V → +12V 25,34,37,40,61

+12VS → +12VS 17,18,41,61

+5V → +5V 15,17,19,25,28,32,36,38,40,41,59,61

+5VS → +5VS 19,22,23,24,28,29,36,37,38,39,40,41,50,61

+2.5VO → +2.5VO 54

+2.5VS → +2.5VS 11,17,19,38,54

+1.8VO → +1.8VO 53,61

+1.8V → +1.8V 9,12,14,15,38,53

+1.8VS → +1.8VS 17,61

+0.9VS → +0.9VS 16,17,53

BAT → BAT 57

+5VCHG → +5VCHG 57,59

+5VLCM → +5VLCM 28,57,58,59,60

+2.5VREF → +2.5VREF 54,57,59,60

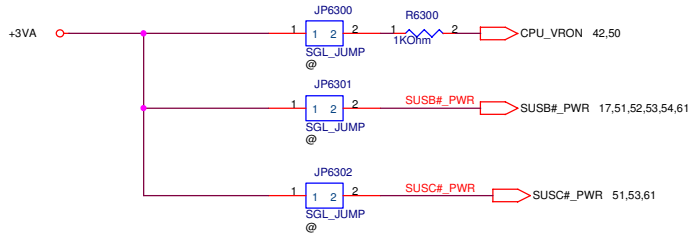
+VCORE → +VCORE 5,6,50

+VGA_VCORE → +VGA_VCORE

+VRAM → +VRAM

+1.2VSP → +1.2VSP

FOR POWER TEST



ASUS	Title : POWER_SIGNAL	
<OrgName>	Engineer:	
Size: Custom	Project Name: NAPA	Rev: 2.0
Date: Wednesday, March 29, 2006	Sheet 63 of 63	