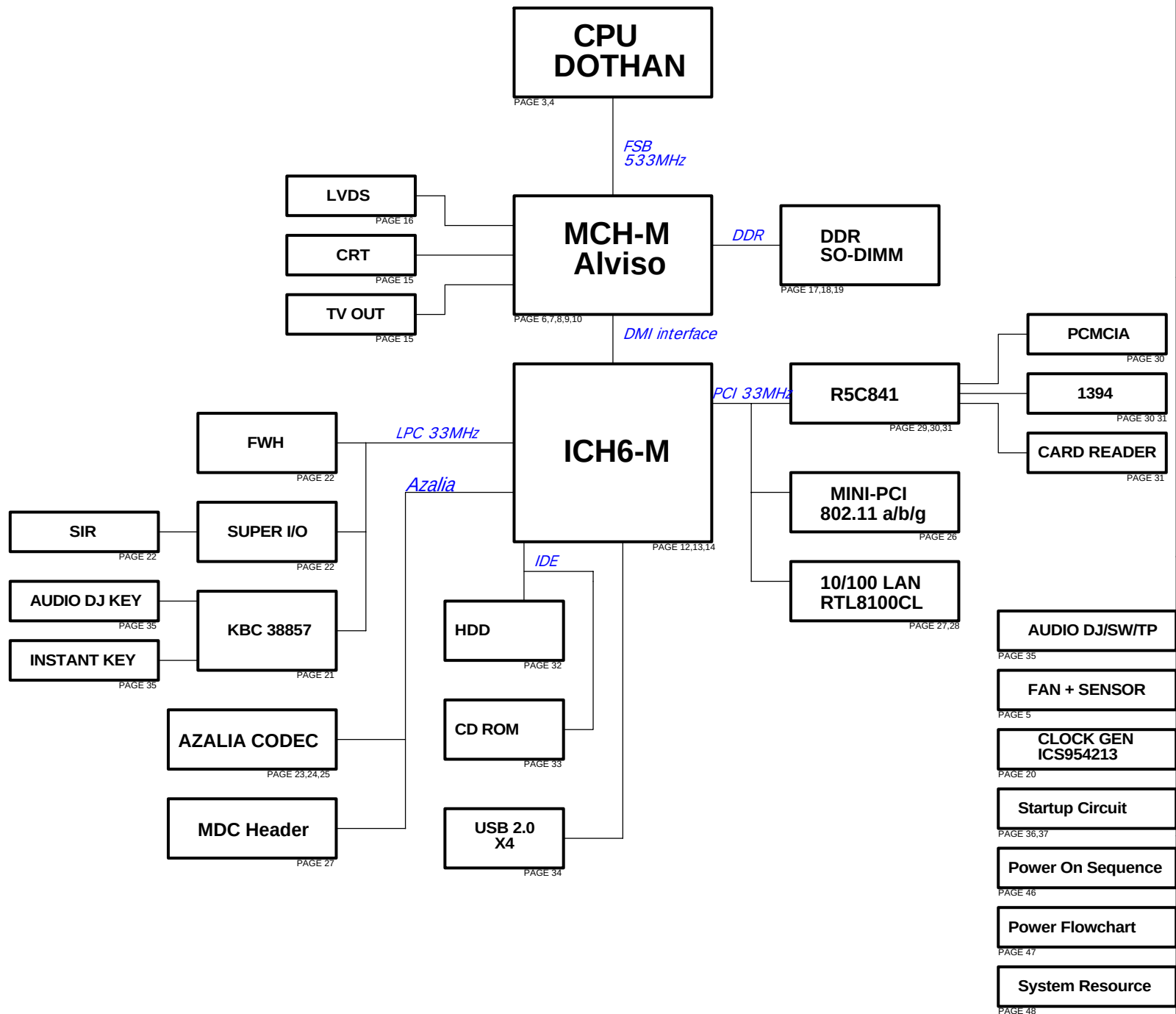


A3E CONTEXT

01_BLOCK DIAGRAM
02_REVISION LIST
03_DOYHAN CPU(1)
04_DOTHAN CPU(2)
05_THERMAL SENSOR,FAN
06_ALVISO GMCH(1)
07_ALVISO PCIE(2)
08_ALVISO DDR SLOT(3)
09_ALVISO POWER(4)
10_ALVISO GND(5)
11_GMCH STRAPPING/LVDS TRANS
12_ICH6M_SATA,LPC,IDE(1)
13_ICH6M_USB,PCI/E,PMIO(2)
14_ICH6M_PWR,GND(3)
15_CRT&TV OUT CONN
16_LVDS&INVERTER(CAMERA,WLAN)
17_DDR_SODIMM
18_DDR_DATA TERMINATION
19_DDR_ADDRESS TERMINATION
20_CLOCK GEN ICS954213
21_KBC M38857
22_FWH,SIO,SIR
23_AZALIA ALC880
24_AMPLIFIER 2 CHANNEL
25_MIC,LINE-IN JACK
26_MINI-PCI
27_LAN RTL8100CL
28_RJ11/45,MDC,PRN
29_PCI CARDBUS R5C841
30_PCI PCMCIA SOCKET A
31_PCI IEEE1394A,3IN1 CON
32_HDD CONNECTOR
33_Q/SW,CD-ROM CONNECTOR
34_USB CONNECTOR
35_DJ BOARD/SW/TP
36_STARTUP CIRCUIT(1)
37_STARTUP CIRCUIT(2)
38_VCORE
39_SYSTEM(3V,5V)
40_2.5V,1.5V,1.8V,1.05V
41_VCCA,DDR(1.25VS)
42_PIC/BAT CONN/PWOK/THERM PT
43_CHARGE
44_BATLOW/SD#
45_LOAD SWITCH
46_POWER ON SEQUENCE
47_SYSTEM RESOURCE
48_Power Flowchart
49_EE HISTORY
50_PWR HISTORY



REVISION LIST

R1.0 2005/01/10

POWER INTERFACE

SIGNALS	TYPE	POWER
PM_PSI#	O	+VCCP
VR_VID[5:0]	O	+VCCP
VRON	O	+3.3V
PM_DPRSPLVR	O	+3.3V
CPU_STP#	O	+3.3V
RST_BTN#	O	+3.3V
CLK_EN#	I	+3.3V
DELAY_VR_PWRGD	I	+3.3V
OTP_RESET#	I	+3.3V
SHUT_DOWN#	I	+3.3V
BAT_LEARN	I	+3.3V
BAT_LLOW#_OC	I	+3.3V
BAT_IN#_OC	I	+3.3V
CHG_EN#	I	+3.3V
CHG_FULL_OC	I	+3.3V
CHG_LED_UP	I	+3.3V
SMCLK_BAT1	IO	+3.3V
SMDATA_BAT1	IO	+3.3V
SUSB#	O	+3.3V
SUSC#	O	+3.3V
1.8V_PWRGD	I	+3.3V
1.5VS_PWRGD	I	+3.3V
VSUS_ON	O	+3.3V
ACIN_OC	I	+3.3V
ACIN#	I	AC_BAT_SYS
+3VA	PWR	+3.3V
+5VA	PWR	+5V
+5VLCM	PWR	+5VLCM
A/D_DOCK_IN	PWR	DC
AC_BAT_SYS	PWR	DC

POWER PLANE

POWER	VOLTAGE	CURRENT
+VCORE	0.7 - 1.77V	27A
+VCCP	1.05 - 1.2V	3.95A
+VCC_GMCH	1.05V	4.12A
+0.9VS	1.25V	0.85A
+1.5VS	1.5V	4.33A
+1.5V	1.5V	300 mA
+1.5VSUS	1.5V	270 mA
+2.5V	2.5V	6.68A
+2.5VS	2.5V	0.3 A
+3VS	3.3V	1.732A
+3V	3.3V	1.515A
+3VSUS	3.3V	540 mA
+5VS	5V	4.1A
+5V	5V	0.5A
+5VSUS	5V	0.5A
+12V	12V	0.25A
+12VS	12V	0.25A

IMPEDENCE

Single-Ended

27.4 OHM WIDTH
TOP/BOT 18 mils

37.5 OHM WIDTH
TOP/BOT 11 mils
IN1/IN2 9.5 mils

50 OHM WIDTH
TOP/BOT 6 mils
IN1/IN2 5 mils

55 OHM WIDTH
TOP/BOT 5.5 mils
IN1/IN2 4.5 mils

75 OHM WIDTH
TOP/BOT 4 mils
IN1/IN3 3.5 mils

Differential

85 OHM WIDTH/SPACE
TOP/BOT 5.5 mils/ 4 mils
IN1/IN2 4.5 mils/ 4 mils

90 OHM WIDTH/SPACE
TOP/BOT 5.5 mils/ 5 mils
IN1/IN2 4.5 mils/ 5 mils

100 OHM WIDTH/SPACE
TOP/BOT 6 mils/ 11 mils
IN1/IN2 5 mils/ 12 mils

110 OHM WIDTH/SPACE
TOP/BOT 5 mils/ 13 mils
IN1/IN2 4 mils/ 12 mils

PCI INTERFACE

PCI_REQ#

MINIPCI PCI_REQ#3
10/100 PCI_REQ#2
CB&1394 PCI_REQ#1

IDSEL

MINIPCI PCI_AD19
10/100 PCI_AD16
CB&1394 PCI_AD17

PCB STACK-UP

PCB THICKNESS: 1.6 mm

- L1 TOP
- L2 GND
- L3 IN1
- L4 IN2
- L5 GND
- L6 BOT

PAGE 38

SIGNAL	IN:	VR_VID[0...5] PM_DPRSPLVR STP_CPU# PM_PSI# CPU_VRON MCH_OK
	OUT:	DELAY_VR_PWRGD CLK_PWR_GD#
POWER	IN:	AC_BAT_SYS +5V0 +3V0
	OUT:	+VCORE

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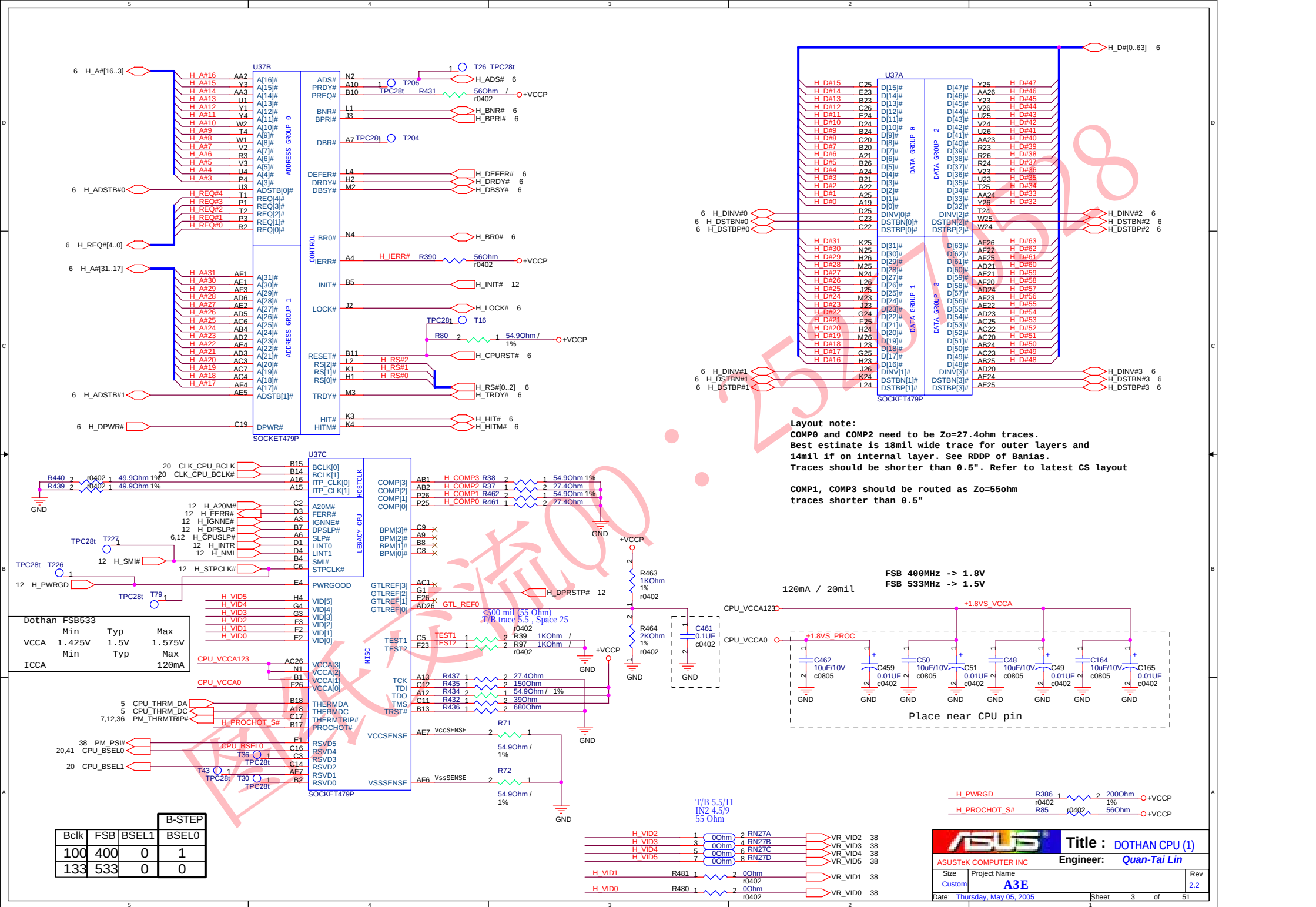
SIGNAL	IN:	SUSC#_PWR VSUS_ON
POWER	IN:	AC_BAT_SYS
	OUT:	+12V0 +3V0 +5V0

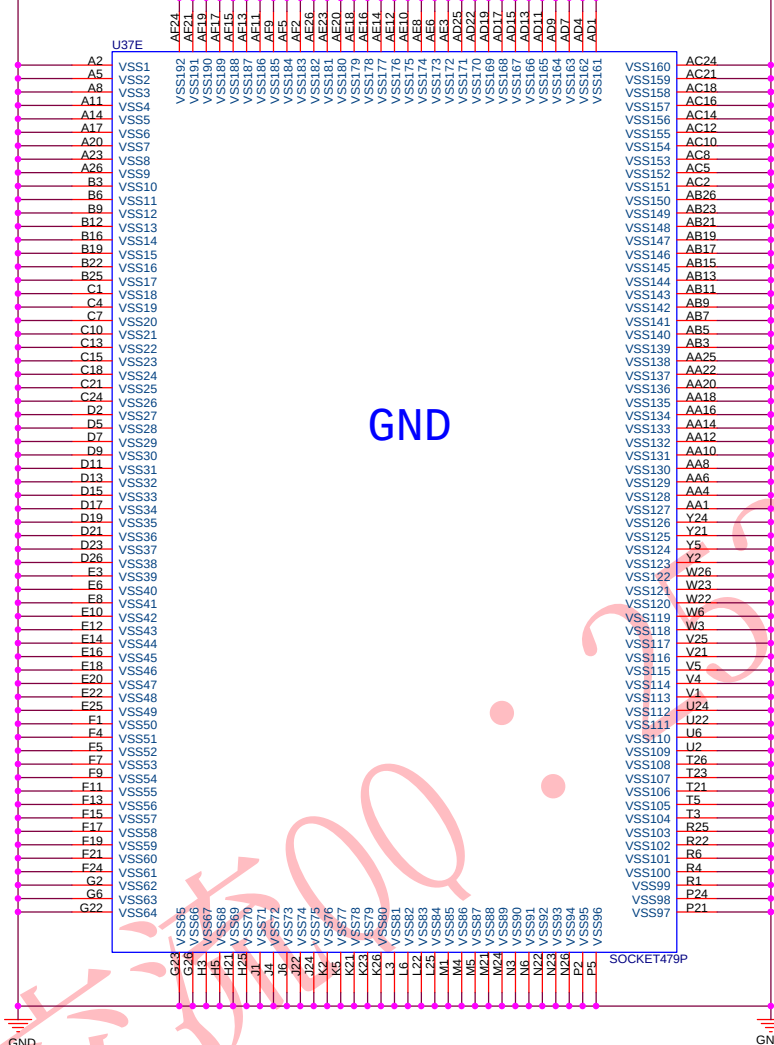
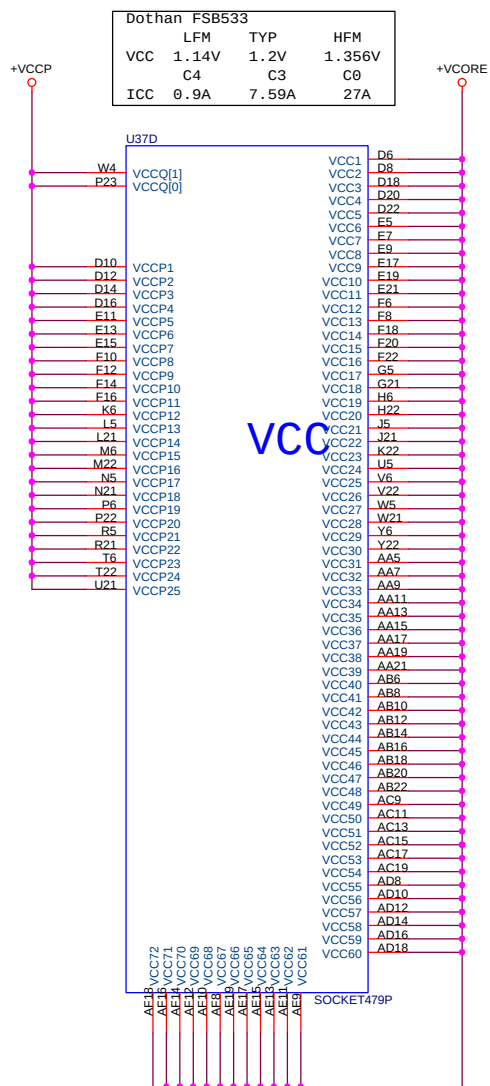
PAGE 40

SIGNAL	IN:	SUSB#_PWR SUSC#_PWR CPU_VRON
POWER	IN:	AC_BAT_SYS +5V0
	OUT:	+1.8V +1.5VS +2.5VS +VCC_GMCH_CORE +5VALWAYS +3VALWAYS +VCCP

PAGE 41

SIGNAL	IN:	SUSB#_PWR
POWER	IN:	+3V +1.8V
	OUT:	+0.9VS





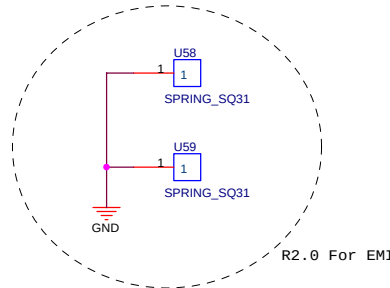
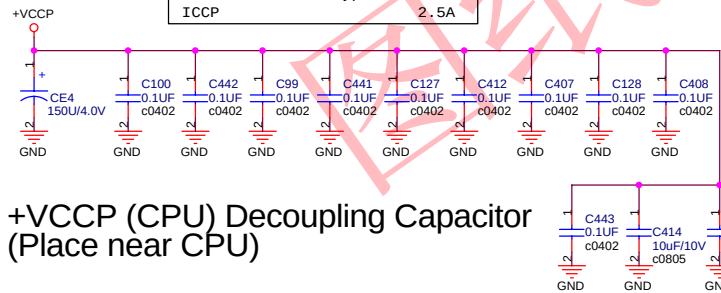
MOBILE DOTHAN VID TABLE

VID[5..0]	Voltage	VID[5..0]	Voltage
000000	1.708V	100000	1.196V
000001	1.692V	100001	1.180V
000010	1.676V	100010	1.164V
000011	1.660V	100011	1.148V
000100	1.644V	100100	1.132V
000101	1.628V	100101	1.116V
000110	1.612V	100110	1.100V
000111	1.596V	100111	1.084V
001000	1.580V	101000	1.068V
001001	1.564V	101001	1.052V
001010	1.548V	101010	1.036V
001011	1.532V	101011	1.020V
001100	1.516V	101100	1.004V
001101	1.500V	101101	0.988V
001110	1.484V	101110	0.972V
001111	1.468V	101111	0.956V
010000	1.452V	110000	0.940V
010001	1.436V	110001	0.924V
010010	1.420V	110010	0.908V
010011	1.404V	110011	0.892V
010100	1.388V	110100	0.876V
010101	1.372V	110101	0.860V
010110	1.356V	110110	0.844V
010111	1.340V	110111	0.828V
011000	1.324V	111000	0.812V
011001	1.308V	111001	0.796V
011010	1.292V	111010	0.780V
011011	1.276V	111011	0.764V
011100	1.260V	111100	0.748V
011101	1.244V	111101	0.732V
011110	1.228V	111110	0.716V
011111	1.212V	111111	0.700V

1.0V - 1.2V(+/- 5%)
S0-S1M: 2.5
A(CPU,MCH,ICH)

Dothan FSB533

Min	Typ	Max
VCCP 0.997V	1.05V	1.102V
ICC		Max 2.5A



When fan speed is very slow, after RC integrator the level of FANSP1 will be very low that may make south bridge do the wrong detection.

Route H_THERMDA and H_THERMDC on the same layer

-----OTHER SIGNALS

12 mils
=====GND

```
10 mils
=====H_THERMDA(10 mils)
```

```
=====H_THERMDA(10 mils)
10 mils
=====H_THERMDC(10 mils)
```

10 mils
=====GND

12 mils
-----OTHER SIGNALS

Avoid BPSB,Power

IM Standby Mode: 3uA(Max. 10uA)
Full Active: 0.5 mA(Max. 1mA)

Close to Pin A18 & B18 of CPU

Pin 13	Pin 14	SMB Add
1	X	5C **
0	1	5A
0	0	58

Four 200 uF are located in IMVP4

		Title : THER-SENSOR,FAN	
ASUSTek COMPUTER INC		Engineer: <u>Quan-Tai Lin</u>	
Size Custom	Project Name A3E	Rev 2.2	
Date: <u>Thursday, May 05, 2005</u>		Sheet 5 of 51	

**P/N change to
06-010112010
for cost down**

U6 output maximum will be 10.5V ($V_{CC}-1.5V$) which will damage south bridge. Add a MOS to transfer it to +3V level.

CPU FAN will be forced on:

- 1) Thermal Sensor Over-temperature
- 2) PROCHOT asserted(CPU)
- 3) WATCHDOG asserted(KBC)

CPU VCORE Decoupling Capacitor

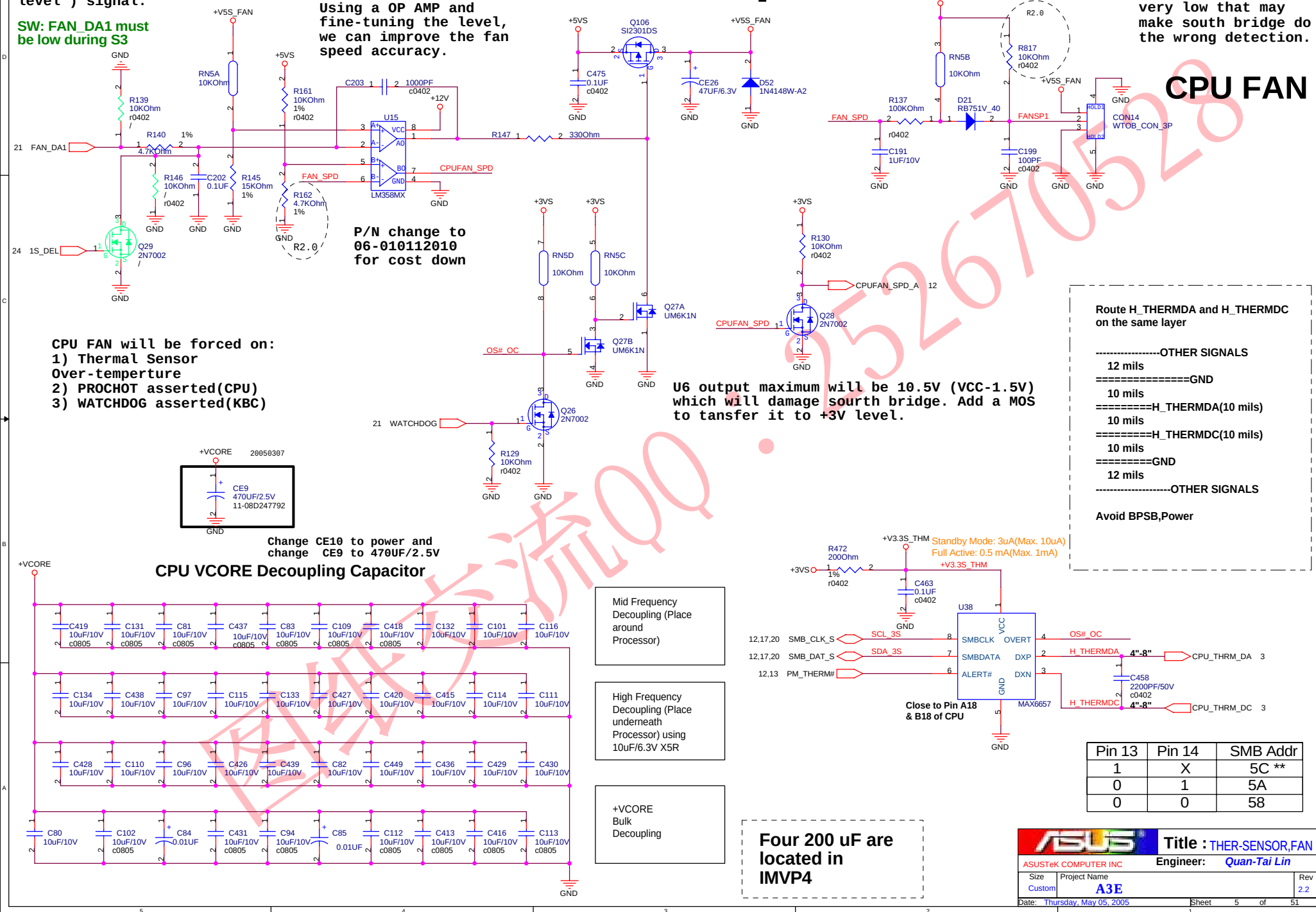
Mid Frequency
Decoupling (Place
around
Processor)

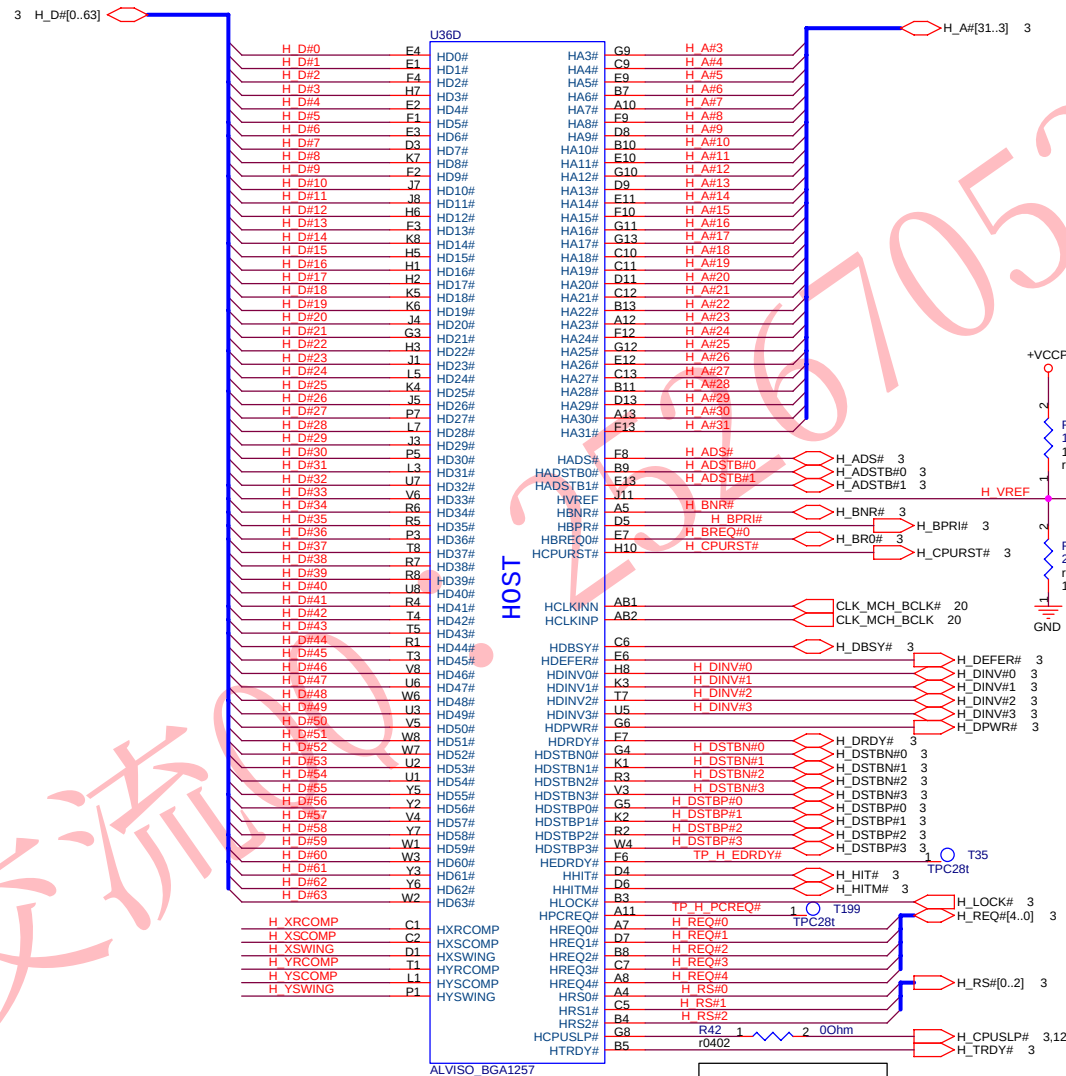
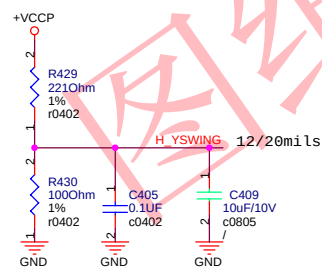
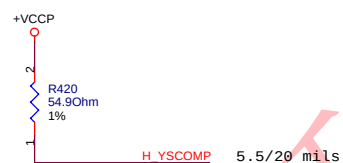
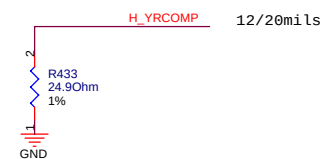
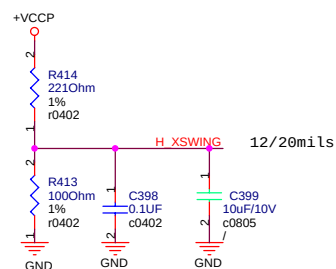
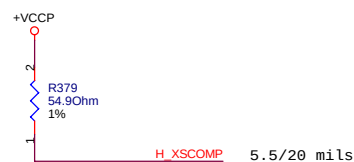
High Frequency
Decoupling (Place
underneath
Processor) using
10uF/6.3V X5R

+VCORE
Bulk
Decoupling

KBC will issue a
analog (a voltage
level) signal.

SW: FAN_DA1 must be low during S3



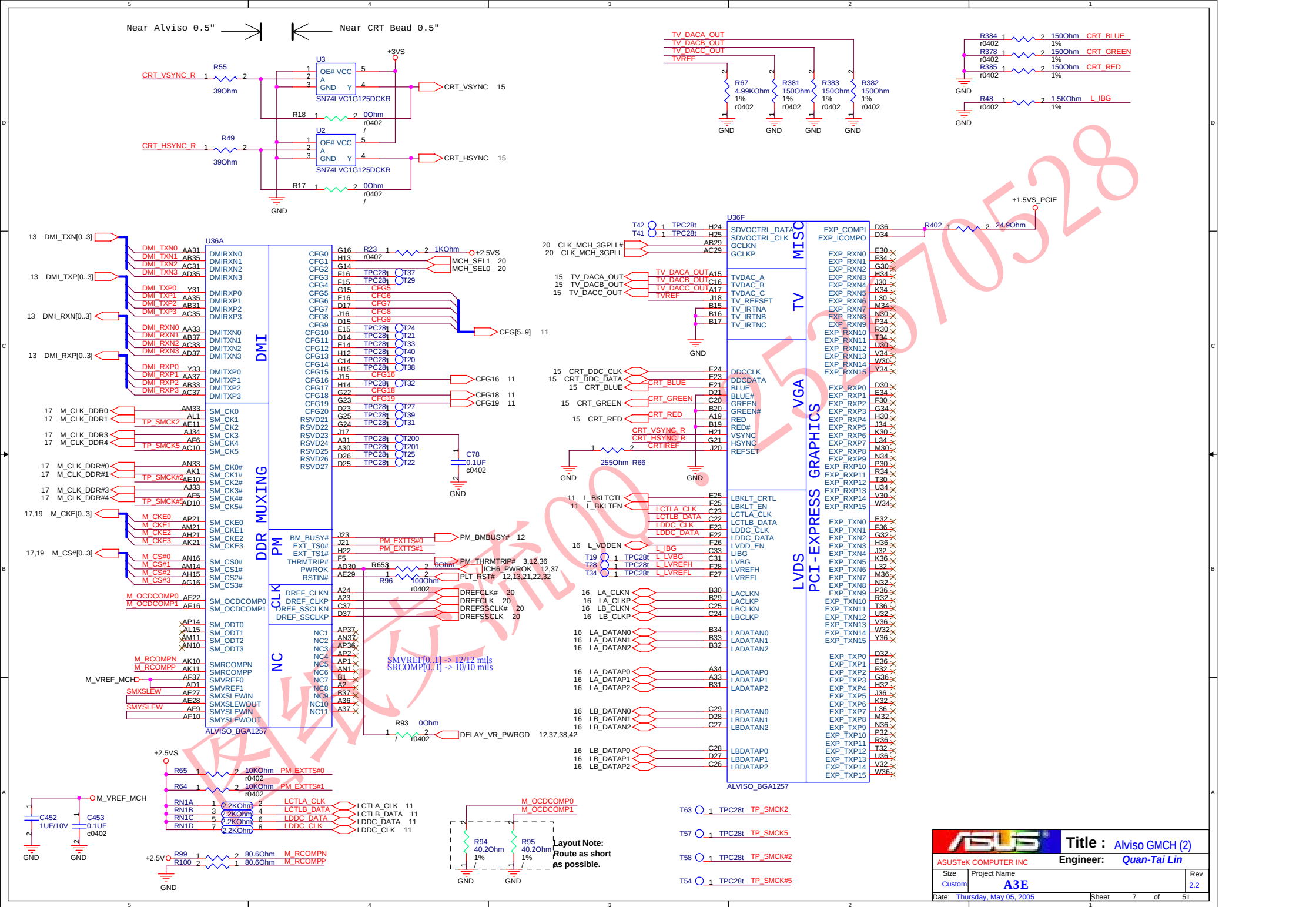


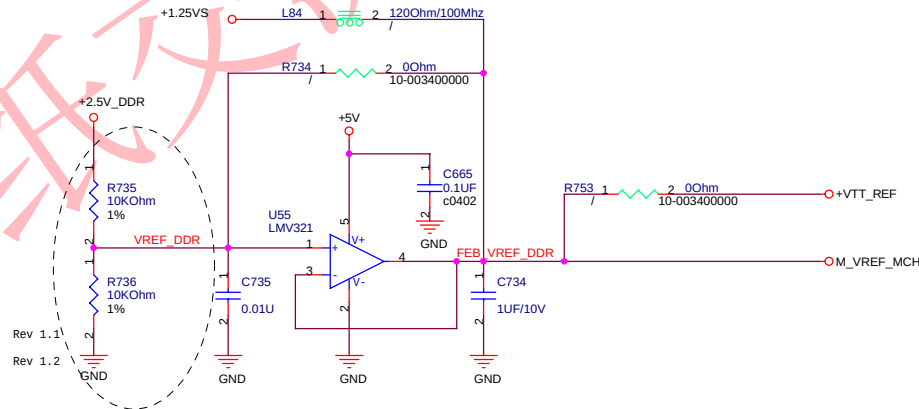
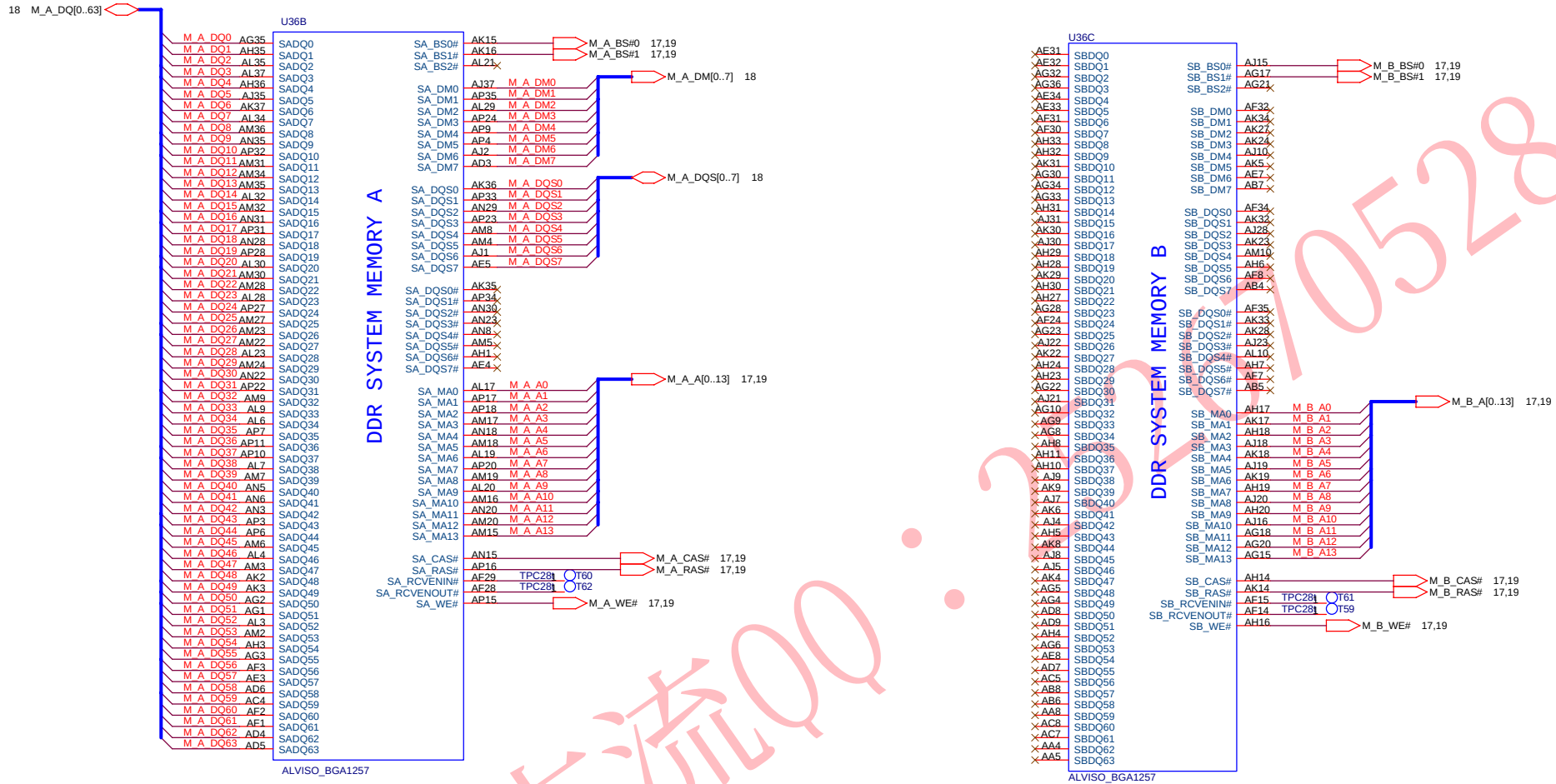
HOST

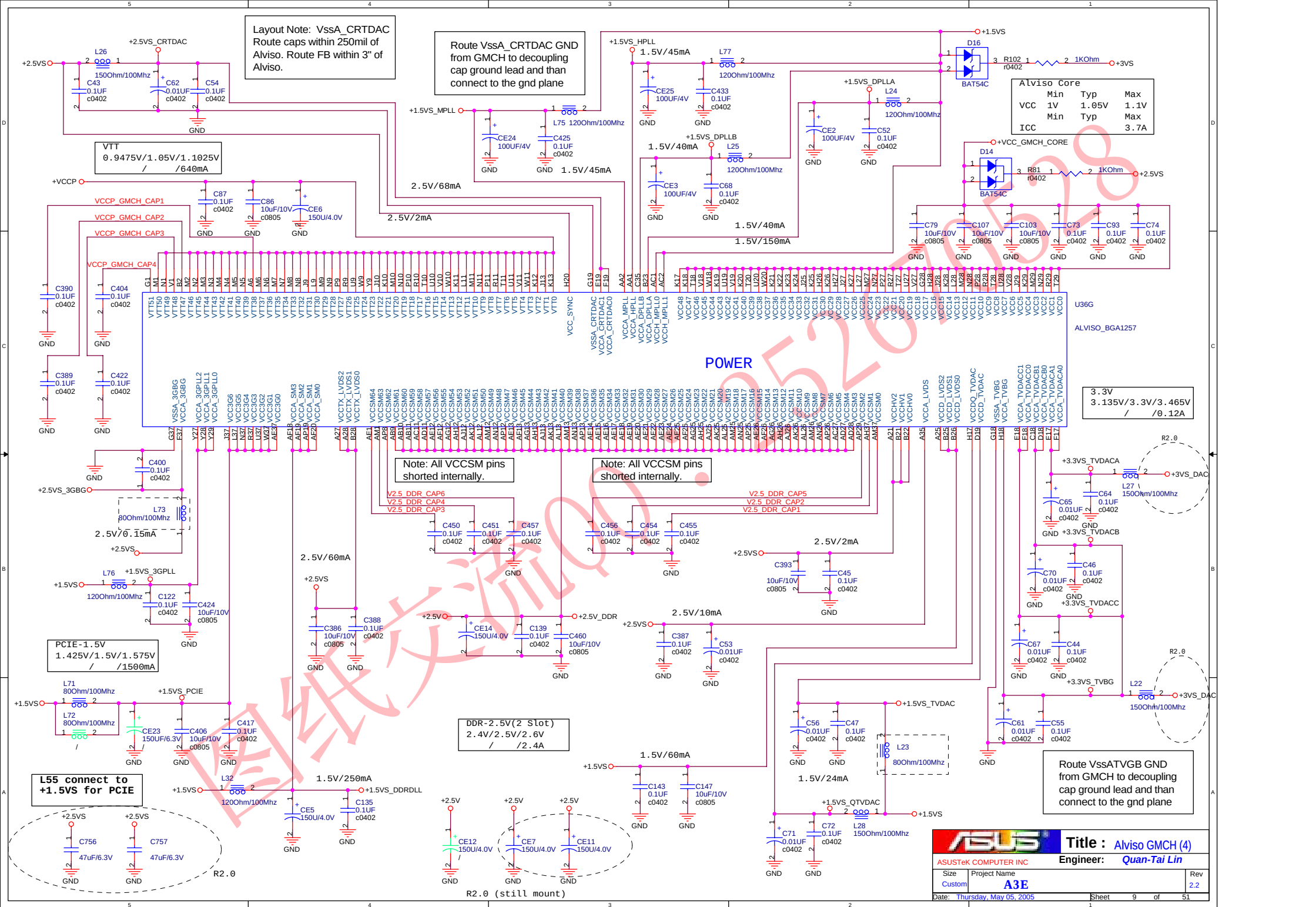
ALVISO BGA1257

Dothan A : R282
NO STUFF

In OrCAD circuit,ALVISO PM P/N :02-010002600
But we have to use ALVISO GM P/N : 02-010002610 in BOM list





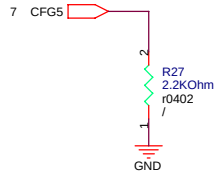




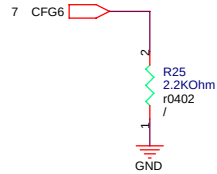
CFG[2:0] are HVCMOS (+2.5VS)
CFG[17..3] have internal pullup resistors. /AGTL+(VCCP)/
CFG[19..18] have internal pulldown resistors./HVCMOS(+2.5VS)/
SDVOCRTL_DATA has internal pulldown resistors.

SDVOCRTL_DATA :
LOW = No SDVO device present (Default)

CFG5 : LOW = DMI X 2
HIGH = DMI X 4 (Default)

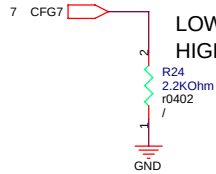


CFG6 : LOW = DDR2 SDRAM
HIGH = DDR SDRAM (Default)



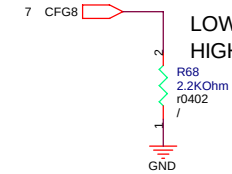
CFG7 : CPU STRAP

LOW = Mobile Prescott
HIGH = Dothan CPU (Default)

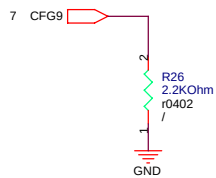


CFG8 : PCI-X POWER Saving

LOW = PCI-X POWER Saving
HIGH (Default)

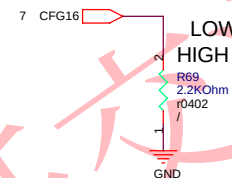


CFG9 : PCIE GRAPHIC LANE
LOW = REVERSE LANE
HIGH = NORMAL OPERATION (Default)



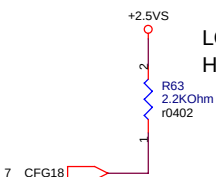
CFG16 : FSB DYNAMIC ODT

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



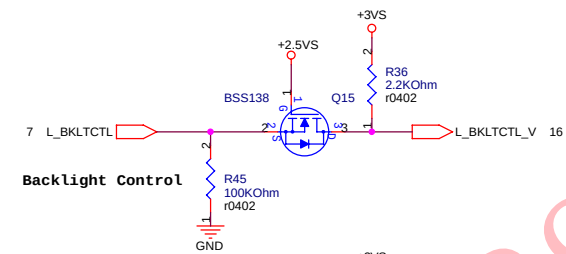
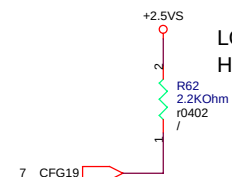
CFG18 : VCC SELECT

LOW = 1.05V (Default)
HIGH = 1.5V

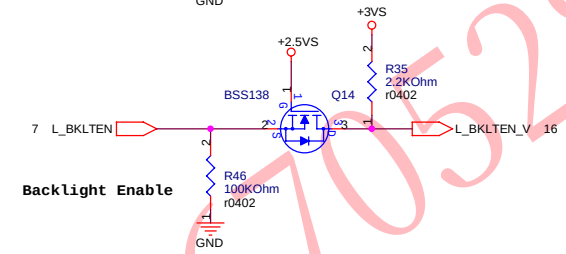


CFG19 : VTT SELECT

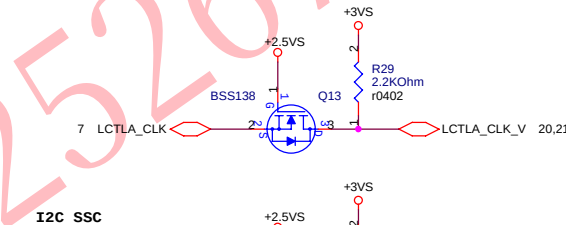
LOW = 1.05V (Default)
HIGH = 1.2V



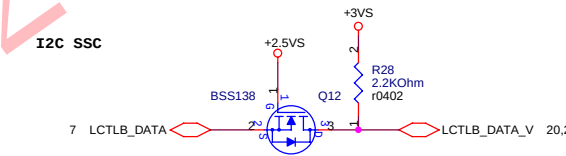
Backlight Control



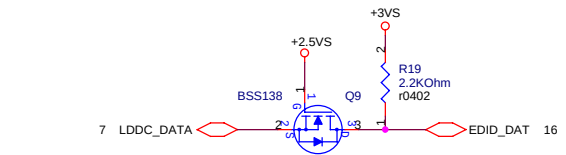
Backlight Enable



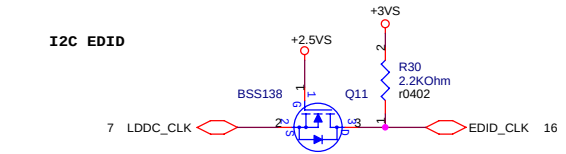
I2C SSC



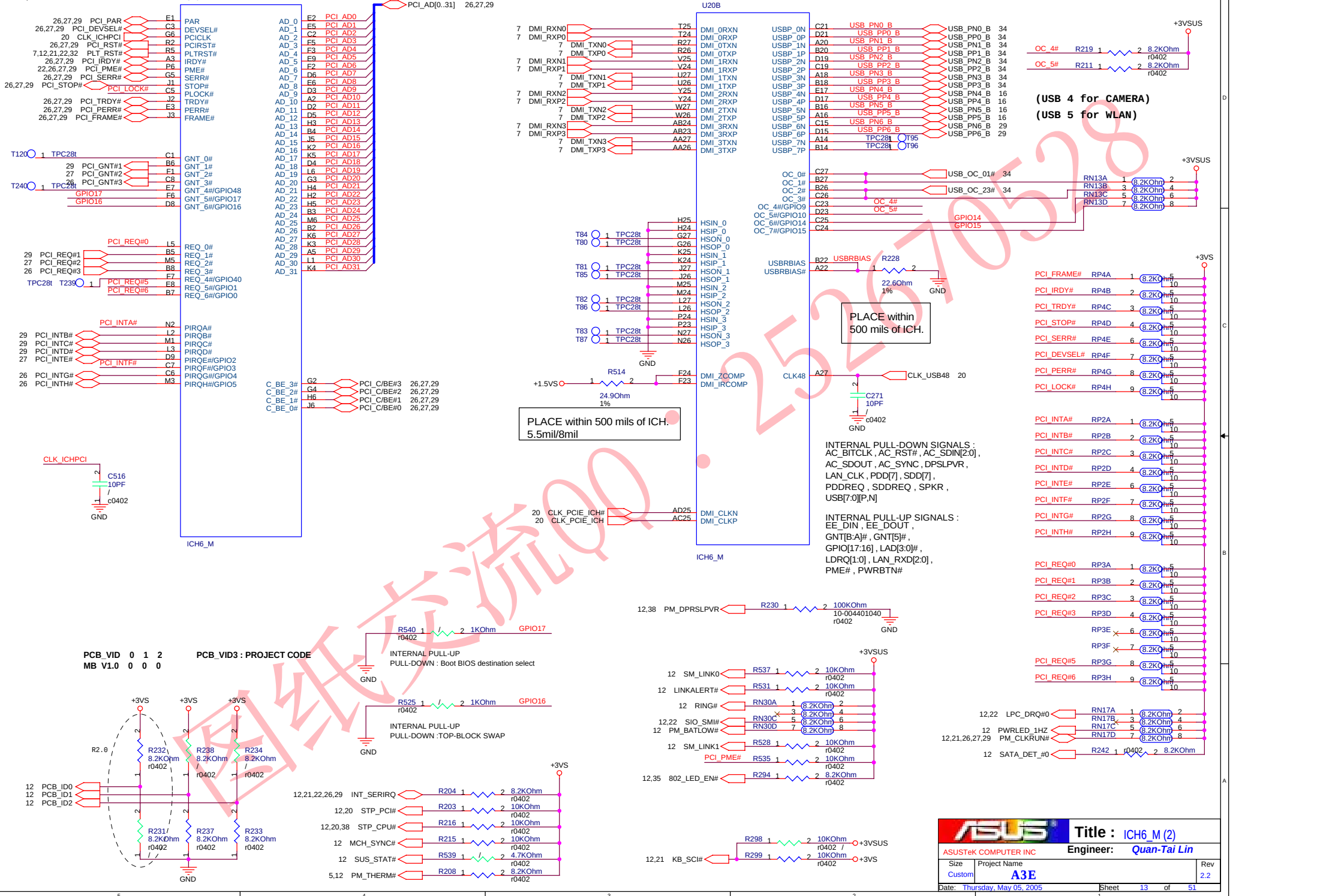
I2C SSC



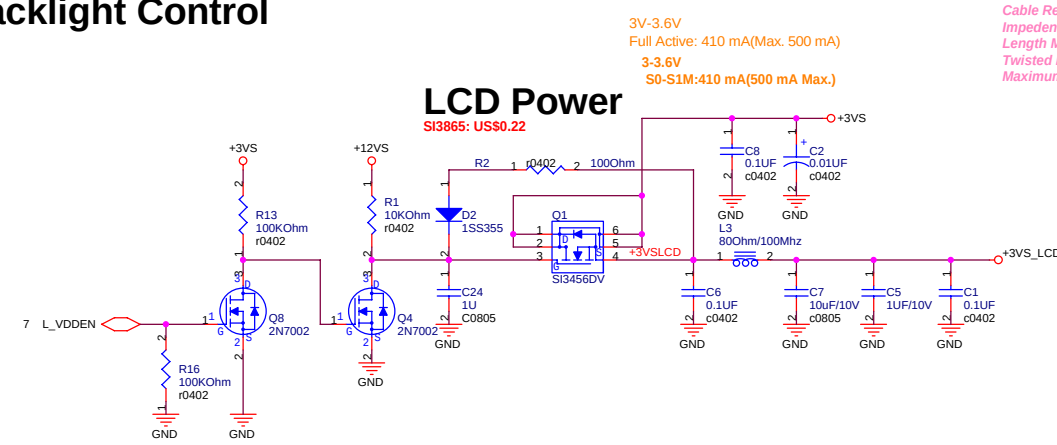
I2C EDID



I2C EDID

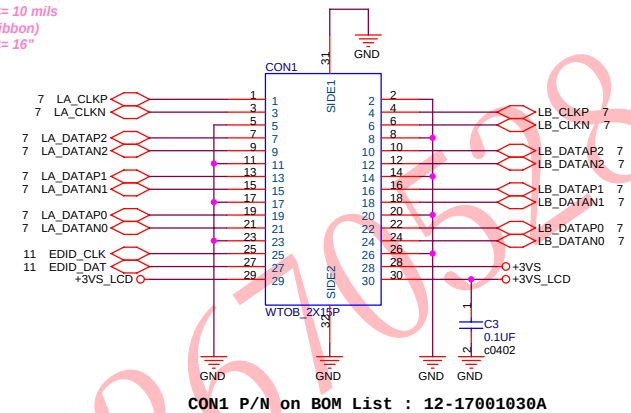


LCD Backlight Control

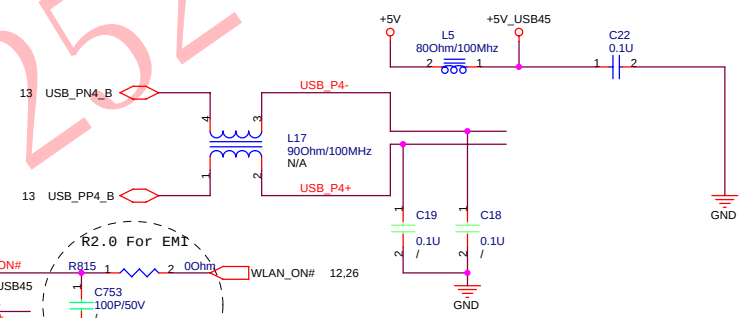
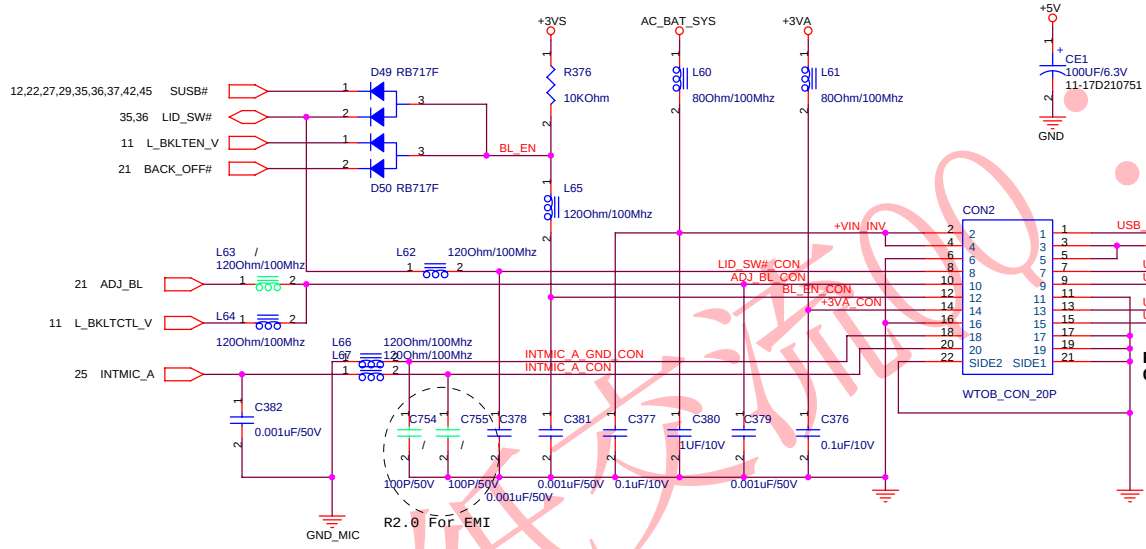


LCD LVDS Interface

Cable Requirement:
Impedence: 100 ohm +/- 10%
Length Mismatch <= 10 mils
Twisted Pair(Not Ribbon)
Maximum Length <= 16"

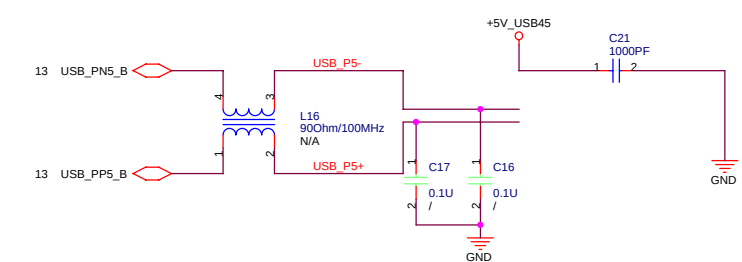


INVERTER Interface



USB PORT 4 for CAMERA

Pin 19 : Add a USB 2.0 Shielding GND cable to USB module.



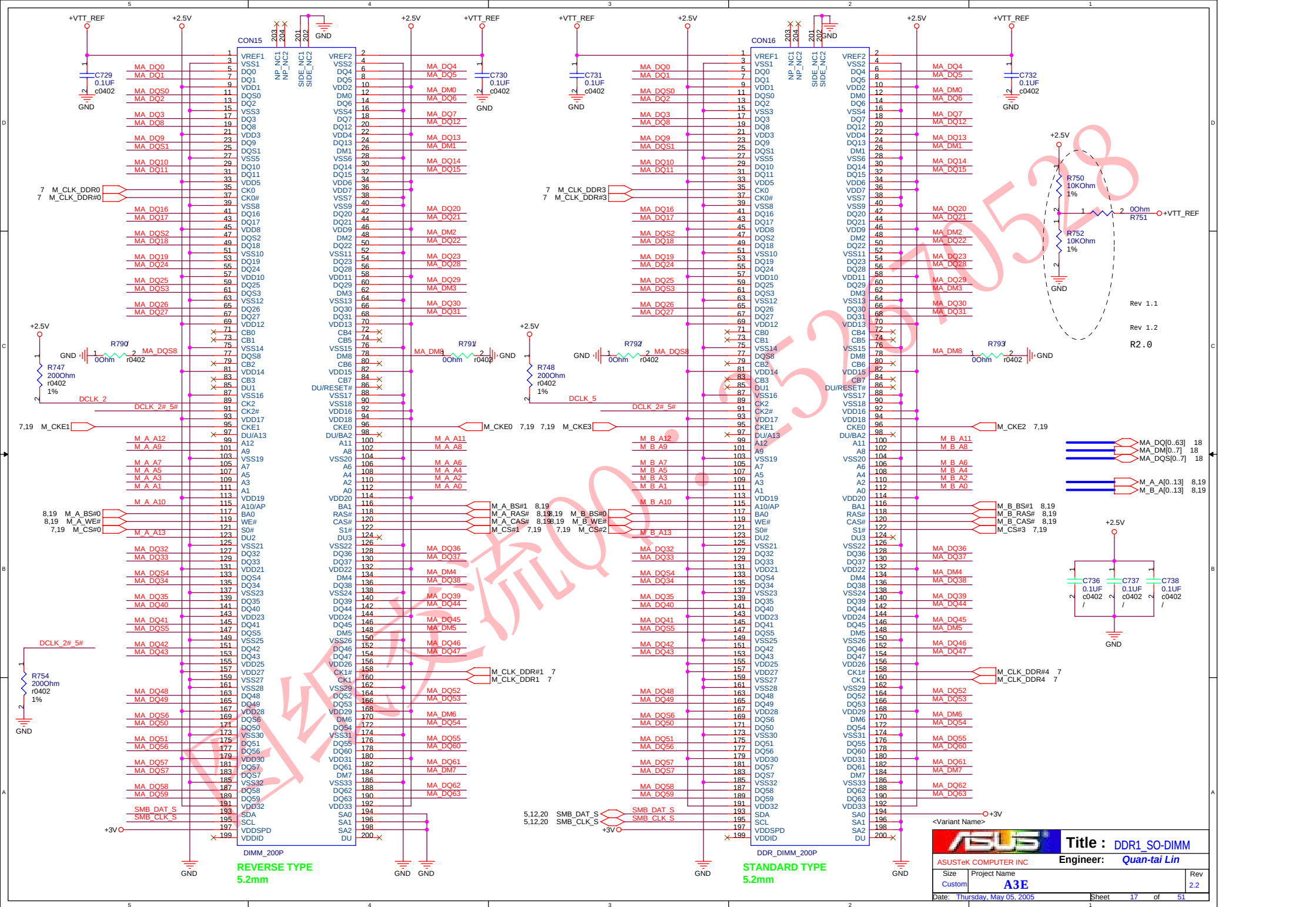
USB PORT 5 for WLAN

BIOS
ADJ_BL: KBC
output D/A
signal (adjust
voltage level)
to adjust Back
light.

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

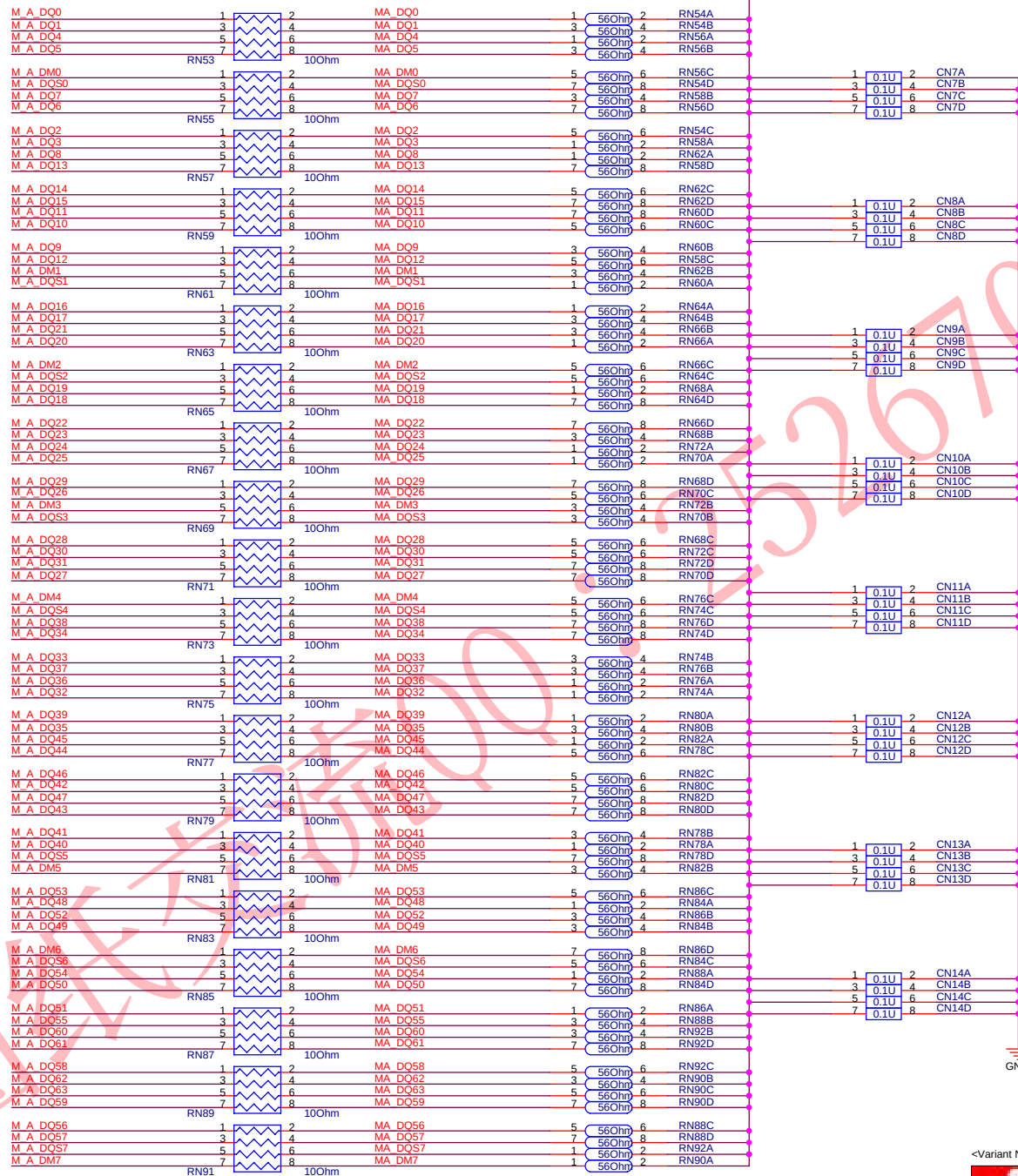
700Vrms@5 mArms
(Min. 3 mArms)6 mArms(Max. 6.5 mArms)

ASUS		Title : LVDS & INVERTER	
ASUSTek COMPUTER INC		Engineer: Quan-Tai Lin	
Size	Project Name		Rev
Custom	A3E		2.2
Date: Thursday, May 05, 2005		Sheet	16 of 51

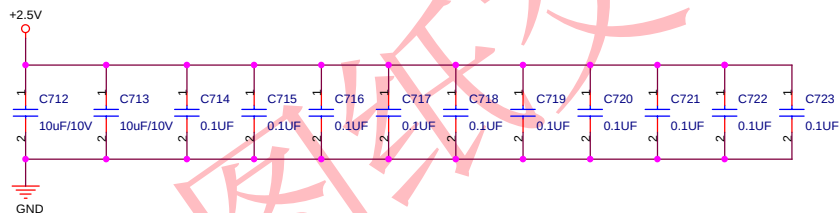
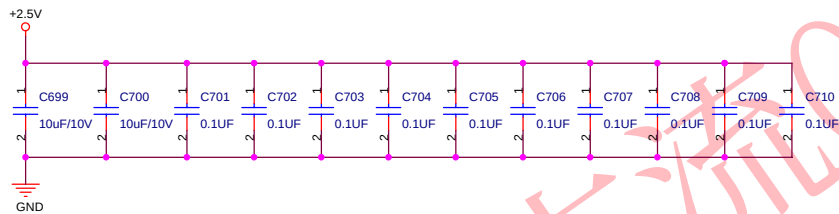
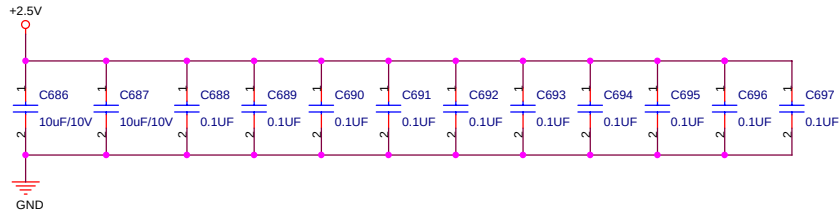
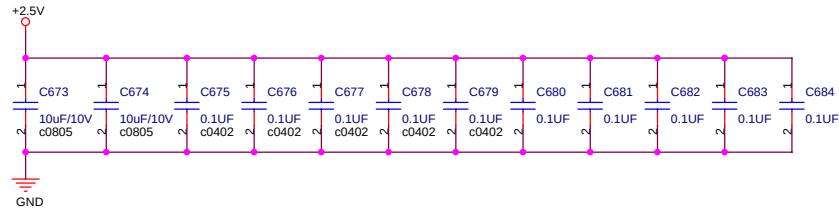


M_A_DQ[0..63] 8
M_A_DQS[0..7] 8
M_A_DM[0..7] 8

MA_DQ[0..63] 17
MA_DQS[0..7] 17
MA_DM[0..7] 17



<Variant Name>



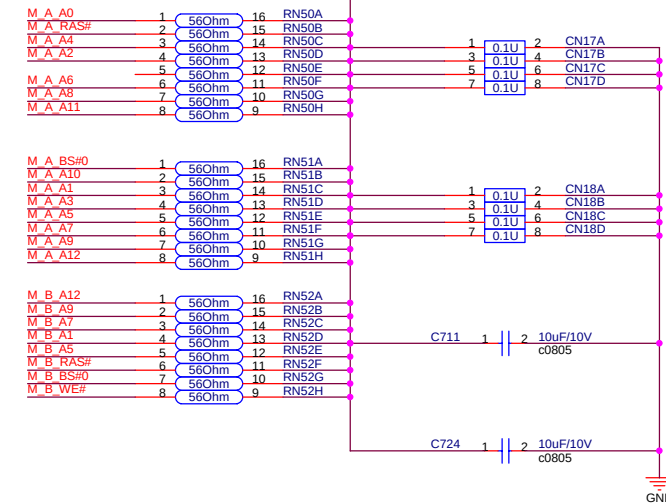
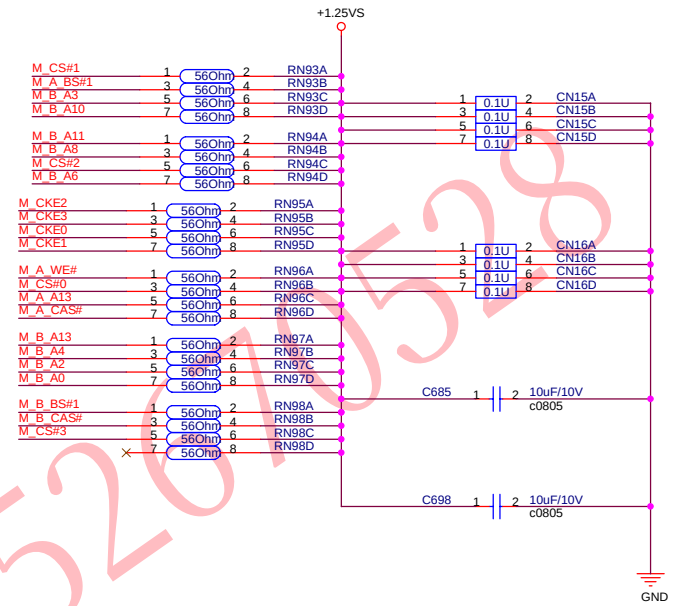
M_A_A[0..13] 8,17
 M_B_A[0..13] 8,17
 M_CKE[0..3] 7,17
 M_CS#[0..3] 7,17

M_B_RAS# 8,17
 M_B_CAS# 8,17
 M_B_WE# 8,17

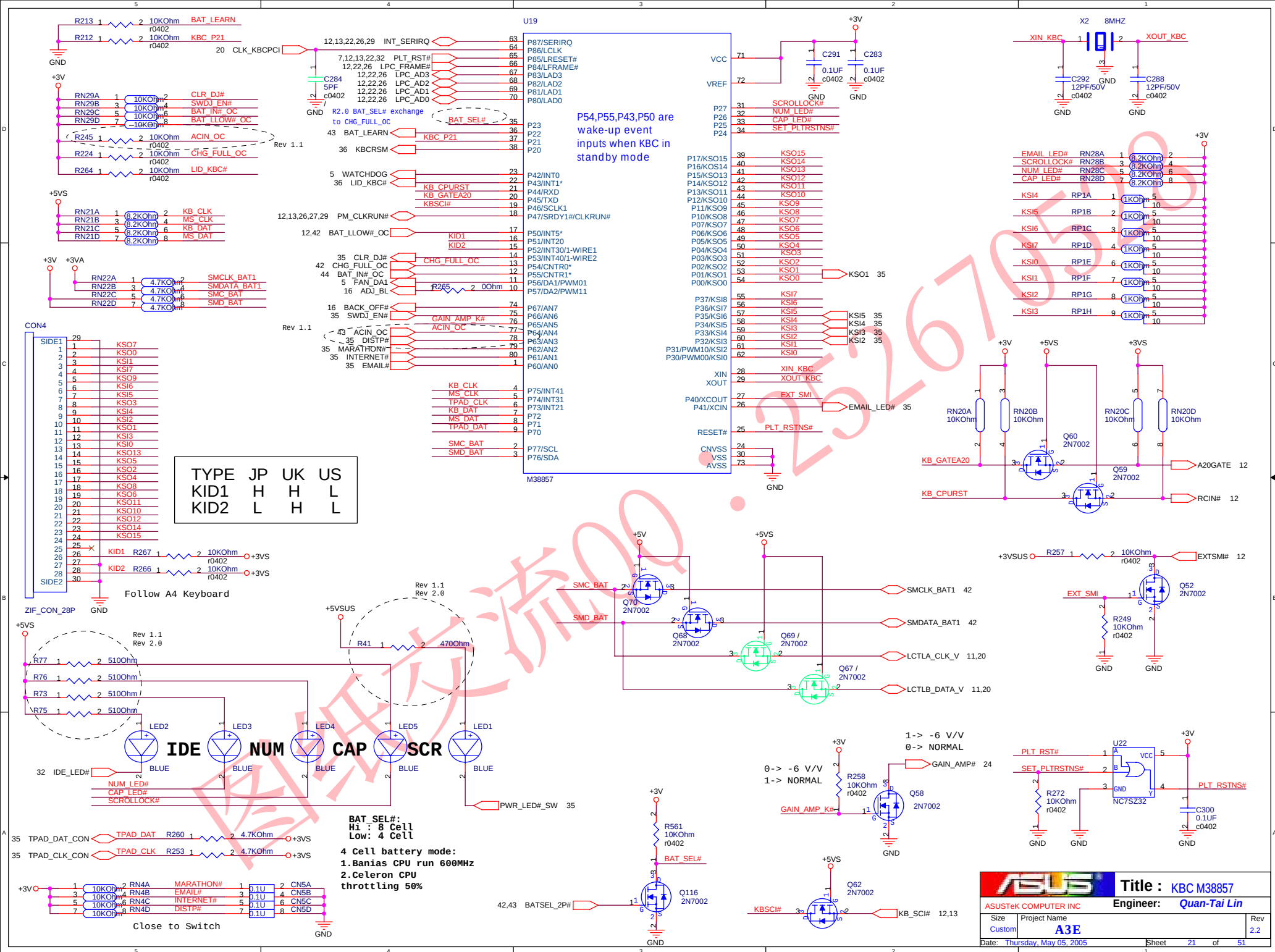
M_A_RAS# 8,17
 M_A_CAS# 8,17
 M_A_WE# 8,17

M_A_BS#0 8,17
 M_A_BS#1 8,17

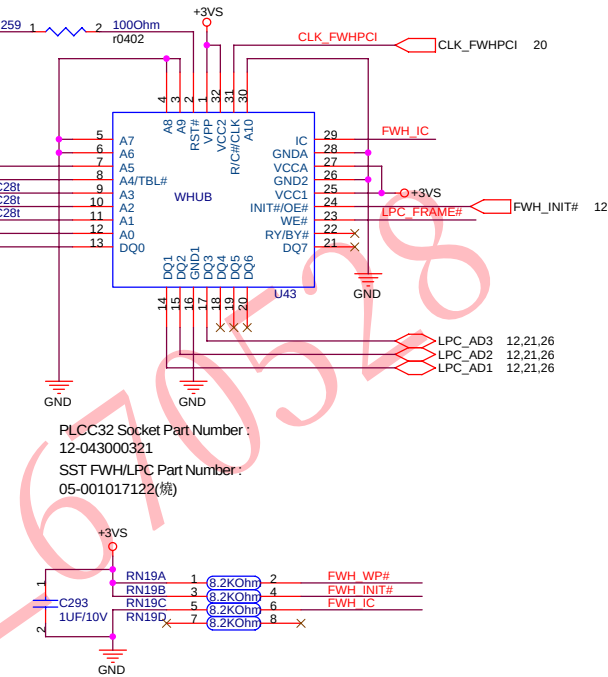
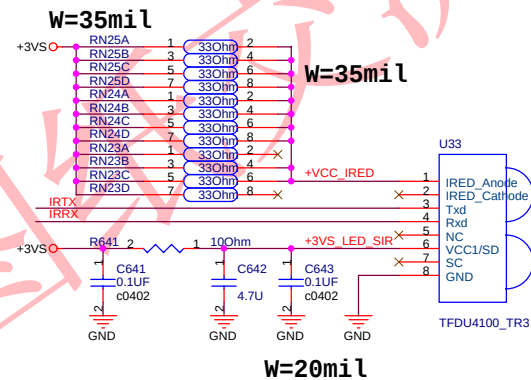
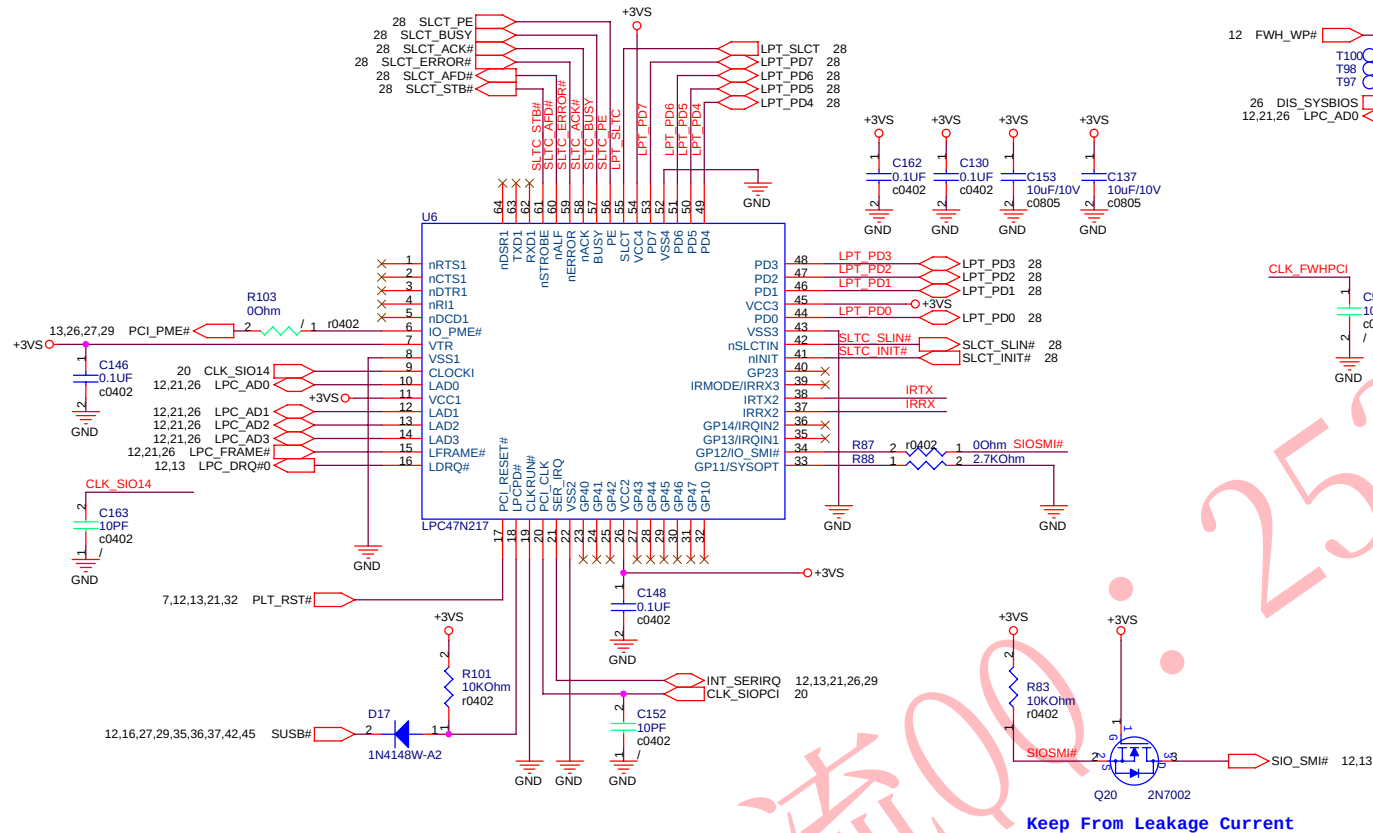
M_B_BS#0 8,17
 M_B_BS#1 8,17



<Variant Name>

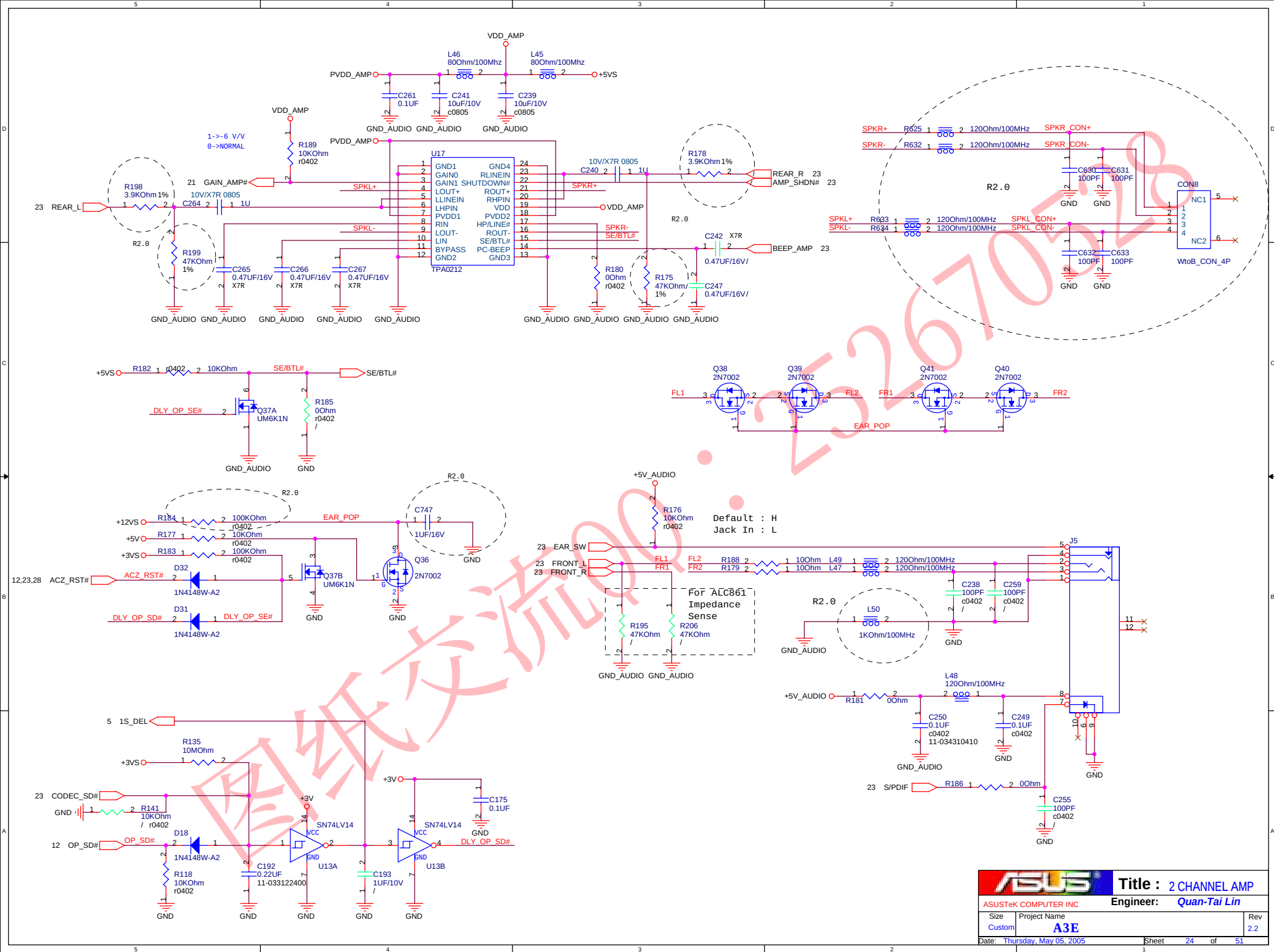


Super I/O

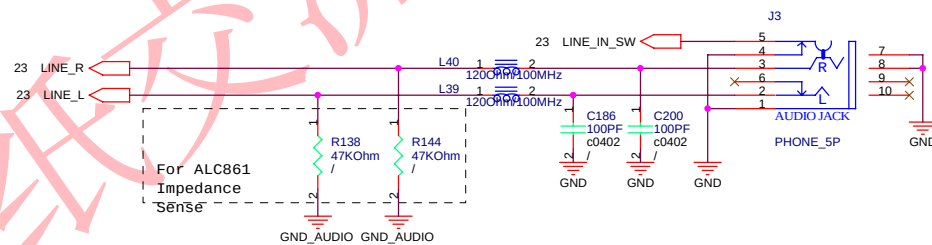
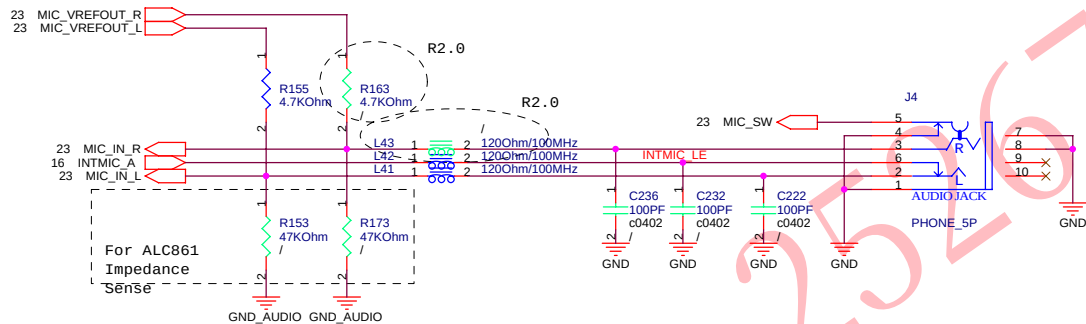
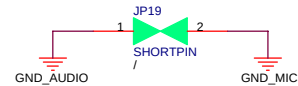
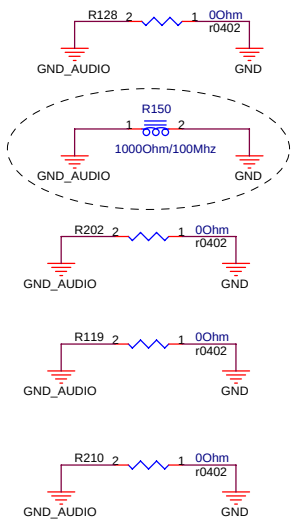


Keep From Leakage Current

ASUS		Title : FWH / SIO / SIR	
ASUSTek COMPUTER INC		Engineer: Quan-Tai Lin	
Size	Project Name	Rev	
Custom	A3E	2.2	
Date: Thursday, May 05, 2005		Sheet	22 of 51



INTMIC_A:GND_AUDIO : W/P/X = 12/5/15mils



OP: FOR EMI

LAN connector pinout diagram showing two views of the connector (L20) and the corresponding pin assignments for LAN signals.

Top View (Green Connector):

- Pin 1: LAN RDP
- Pin 2: LAN RDN
- Pin 3: LAN TDP
- Pin 4: LAN TDN
- Pin 5: LAN TDP
- Pin 6: LAN RDN
- Pin 7: LAN RDP
- Pin 8: LAN RXP

Bottom View (Blue Connector):

- Pin 1: LAN RDP
- Pin 2: LAN RDN
- Pin 3: LAN TDP
- Pin 4: LAN TDN
- Pin 5: LAN TDP
- Pin 6: LAN RDN
- Pin 7: LAN RDP
- Pin 8: LAN RXP

Connector Label: 857CM_0009

LAN connector pinout diagram showing two views of the connector (RN26A, RN26B, RN26C, RN26D) and the corresponding pin assignments for LAN signals.

Top View (Blue Connector):

- Pin 1: LAN CON8/9
- Pin 2: GND LAN
- Pin 3: LAN CON5/6
- Pin 4: LAN CON5/6
- Pin 5: RXCT
- Pin 6: RXCT
- Pin 7: TXCT
- Pin 8: TXCT

Bottom View (Blue Connector):

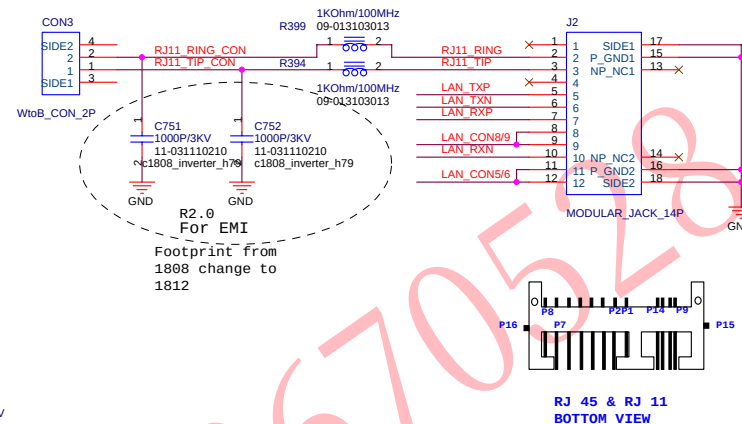
- Pin 1: LAN CON8/9
- Pin 2: GND LAN
- Pin 3: LAN CON5/6
- Pin 4: LAN CON5/6
- Pin 5: RXCT
- Pin 6: RXCT
- Pin 7: TXCT
- Pin 8: TXCT

Connector Labels: RN26A, RN26B, RN26C, RN26D

Termination: 750hm

Capacitor: C395 0.1u +/-10%

Ground: GND



LAYOUT SWAP

LN1 120Ohm/100MHz

22 SLCT_SLIN#
22 LPT_PD2
22 SLCT_INIT#
22 LPT_PD1

1 SLCT_L_SLIN#
2 LPT_L_PD2
3 SLCT_L_INIT#
4 LPT_L_PD1

1 CN2A
2 CN2B
3 CN2C
4 CN2D

1 150pF
2 150pF
3 150pF
4 150pF

LN2 120Ohm/100MHz

22 LPT_PD3
22 LPT_PD4
22 LPT_PD5
22 LPT_PD6

1 LPT_L_PD3
2 LPT_L_PD4
3 LPT_L_PD5
4 LPT_L_PD6

1 CN3D
2 CN3C
3 CN3B
4 CN3A

1 150pF
2 150pF
3 150pF
4 150pF

LN3 120Ohm/100MHz

22 LPT_PD7
22 SLCT_ACK#
22 SLCT_BUSY
22 SLCT_PE

1 LPT_L_PD7
2 SLCT_L_ACK#
3 SLCT_L_BUSY
4 SLCT_L_PE

1 CN4D
2 CN4C
3 CN4B
4 CN4A

1 150pF
2 150pF
3 150pF
4 150pF

LN4 120Ohm/100MHz

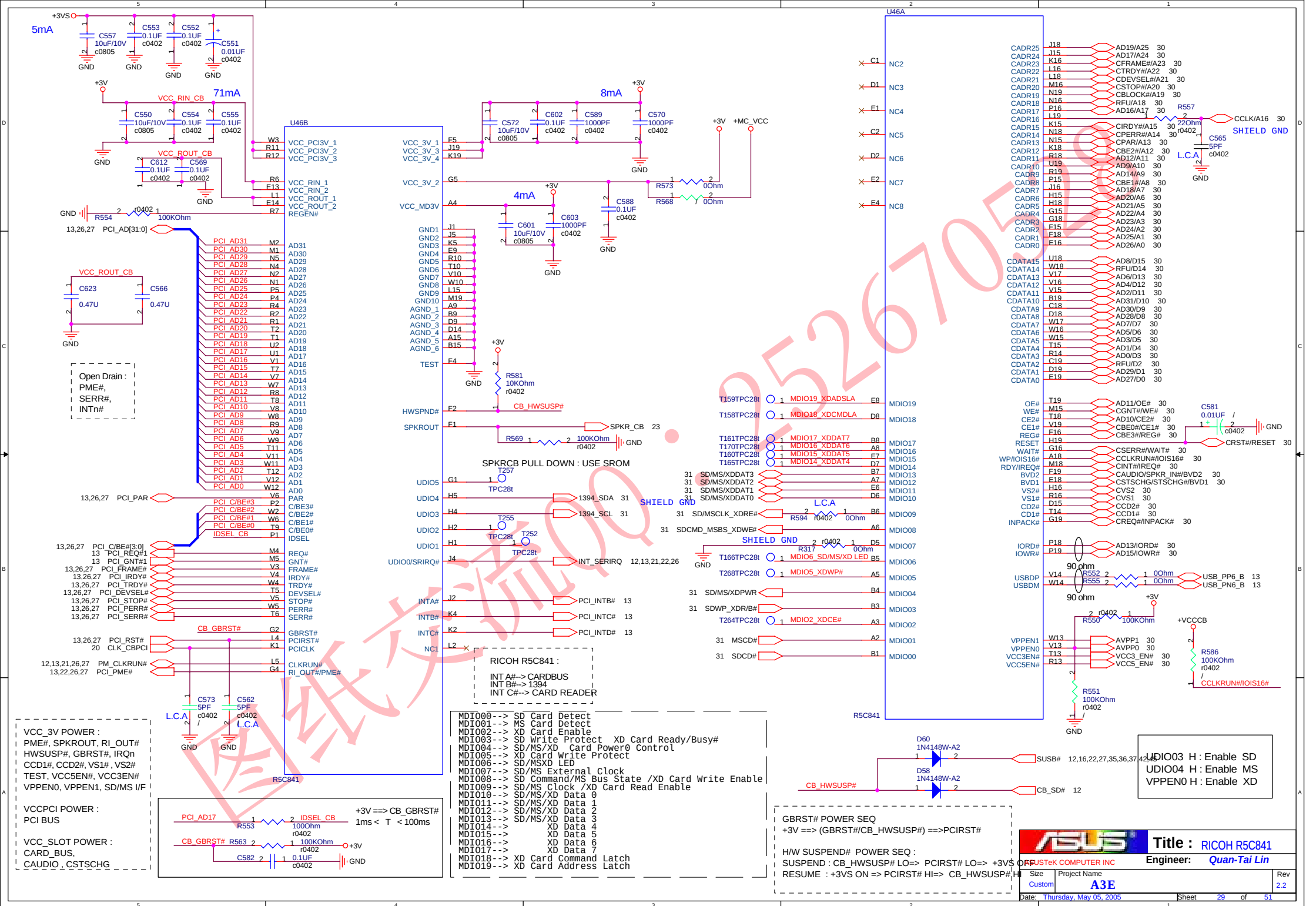
22 SLCT_ERROR#
22 LPT_PDO
22 SLCT_AFD#
22 SLCT_STB#

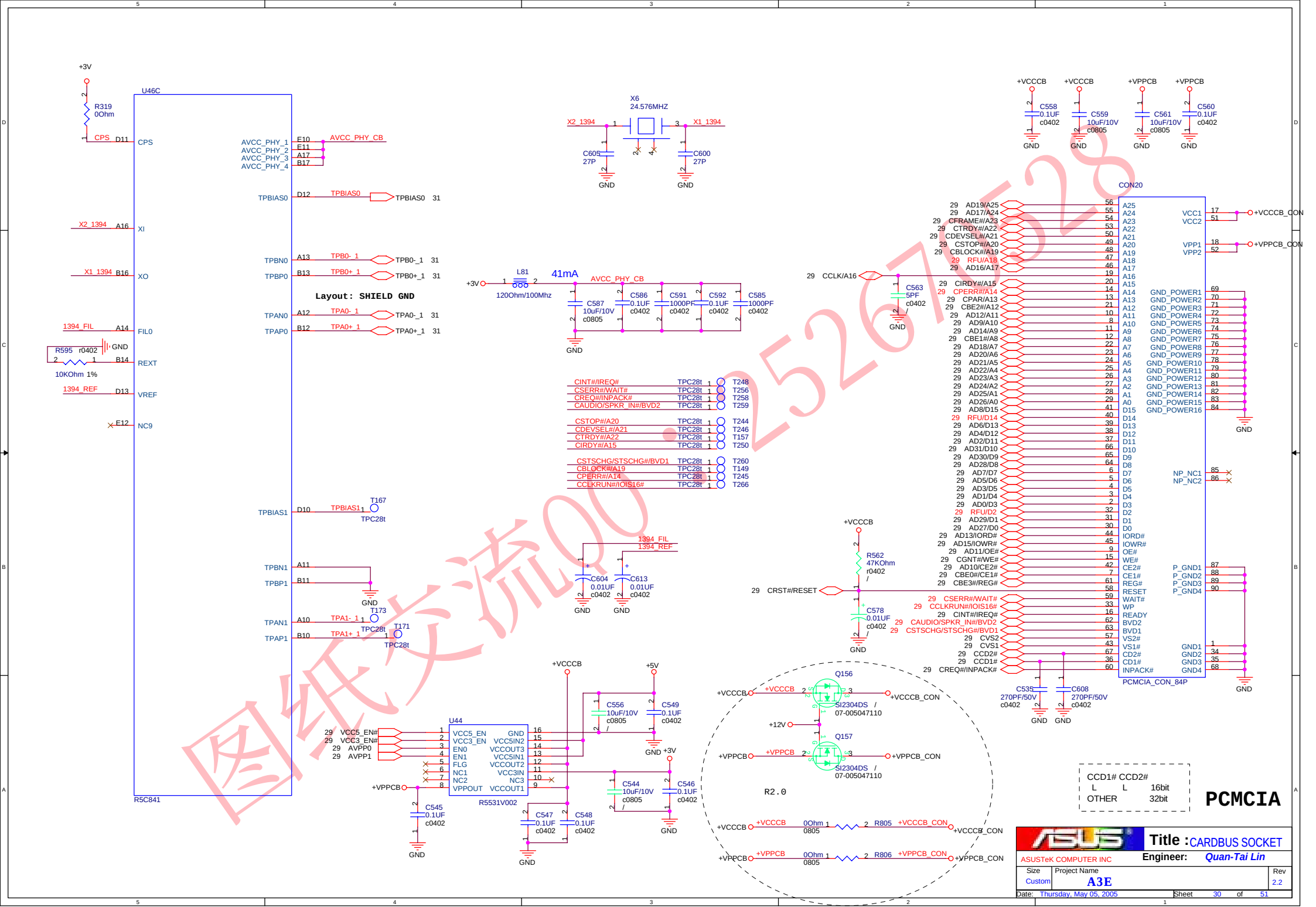
1 SLCT_L_ERROR#
2 LPT_L_PDO
3 SLCT_L_AFD#
4 SLCT_L_STB#

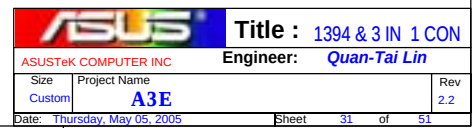
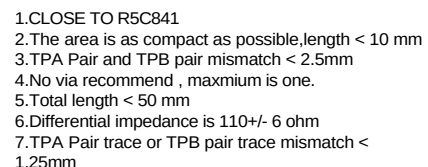
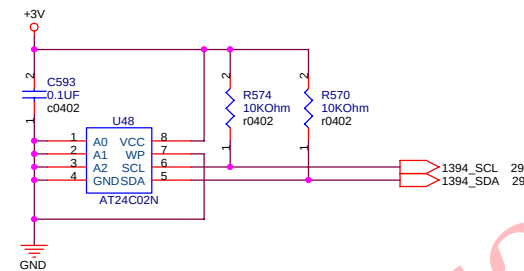
1 CN4D
2 CN4C
3 CN4B
4 CN4A

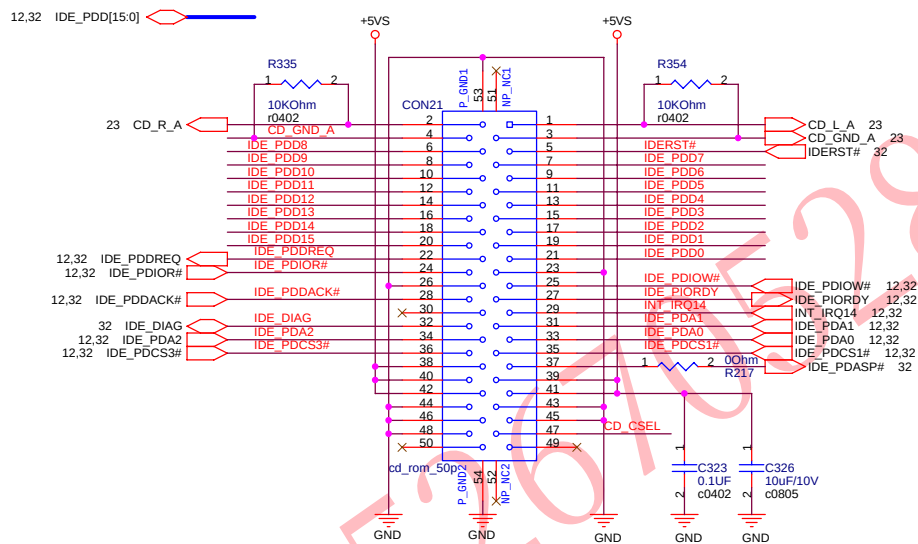
1 150pF
2 150pF
3 150pF
4 150pF

[illegible][illegible]

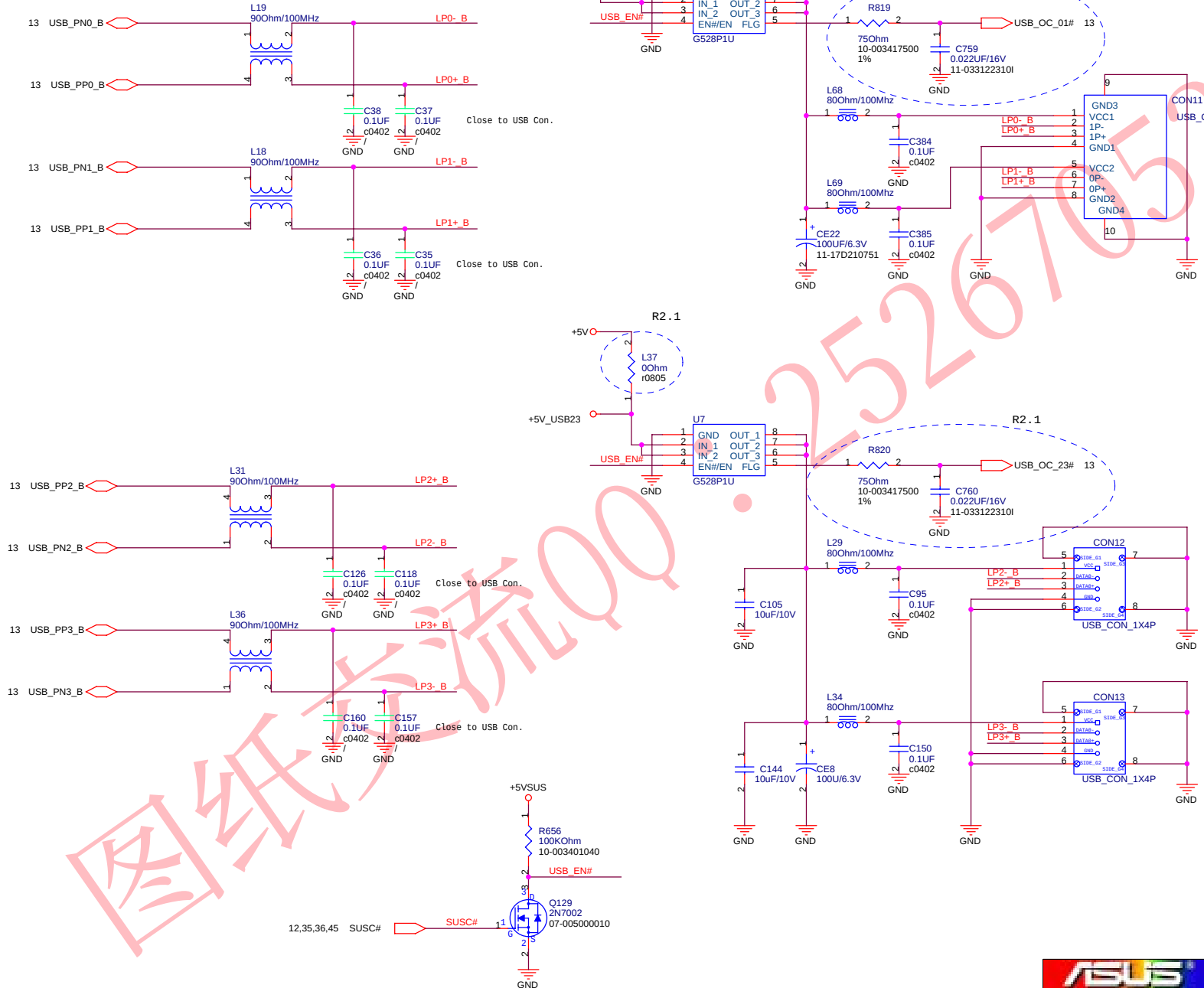


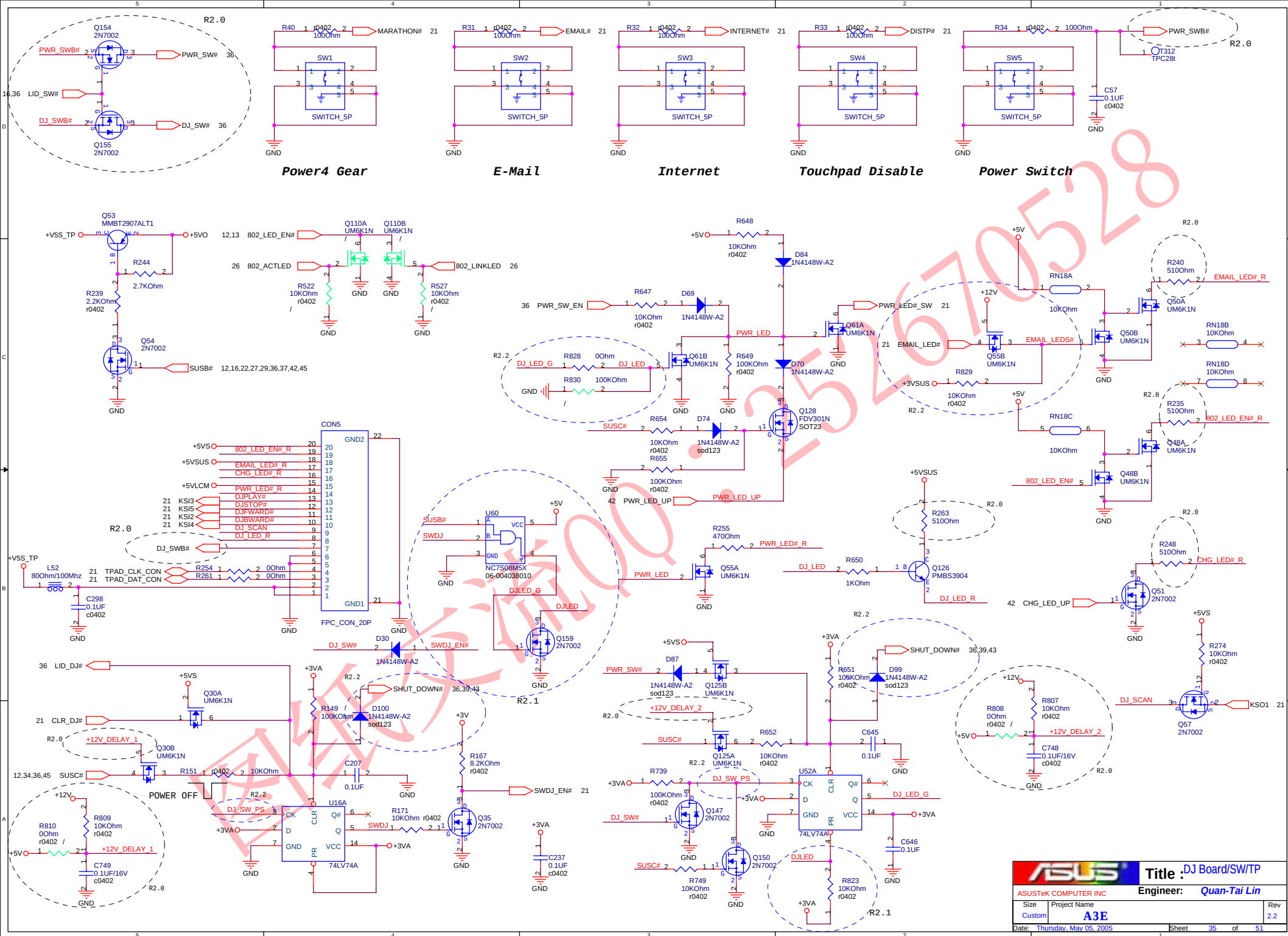


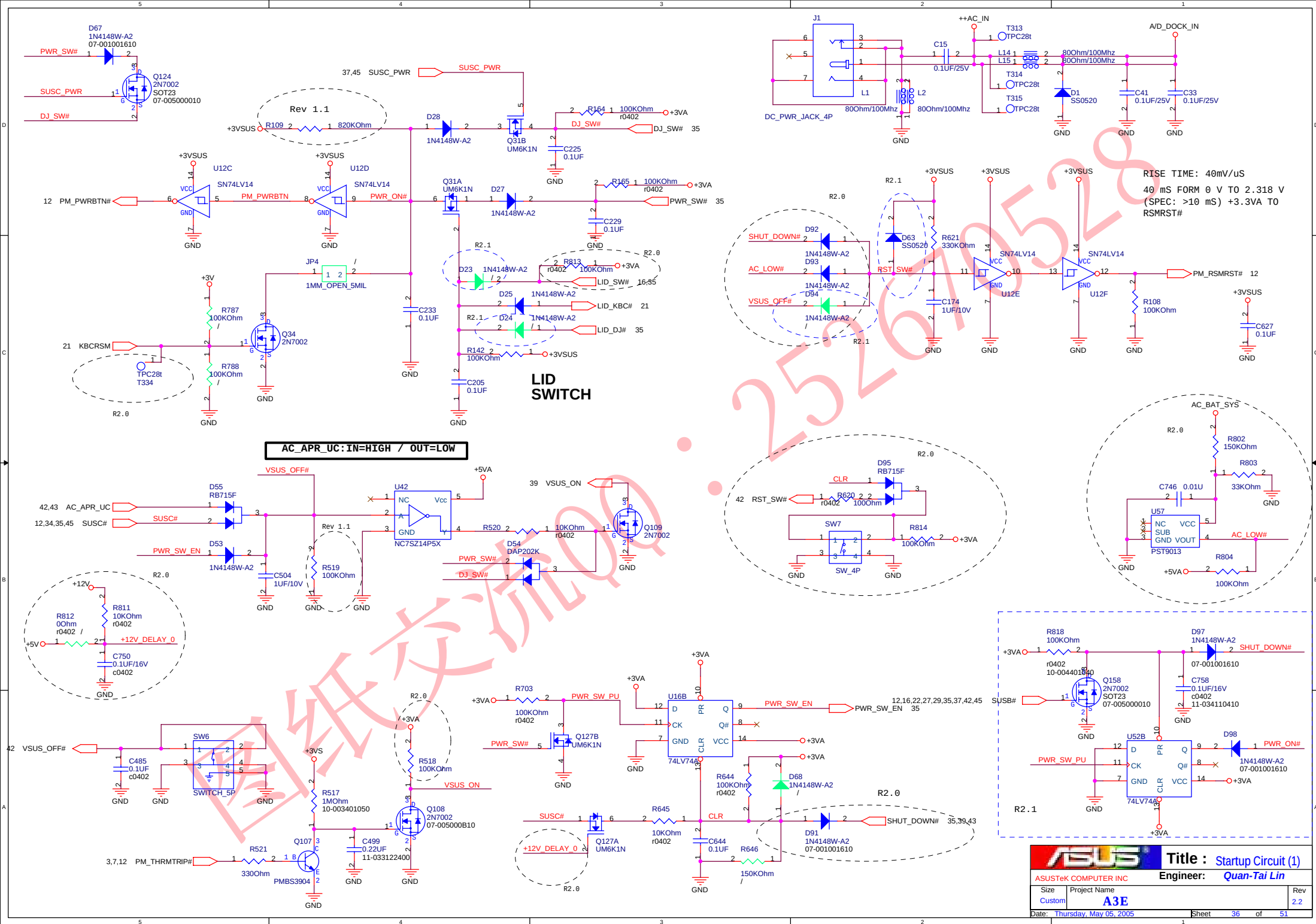


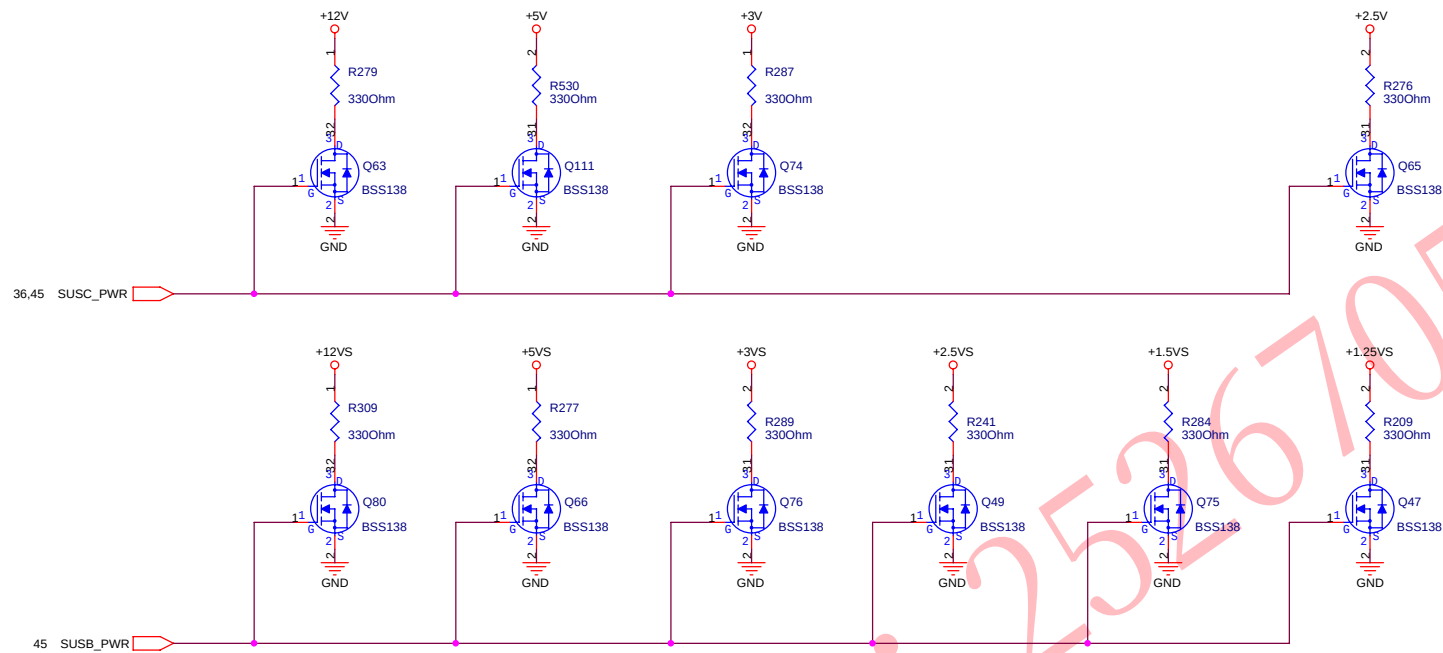


USB



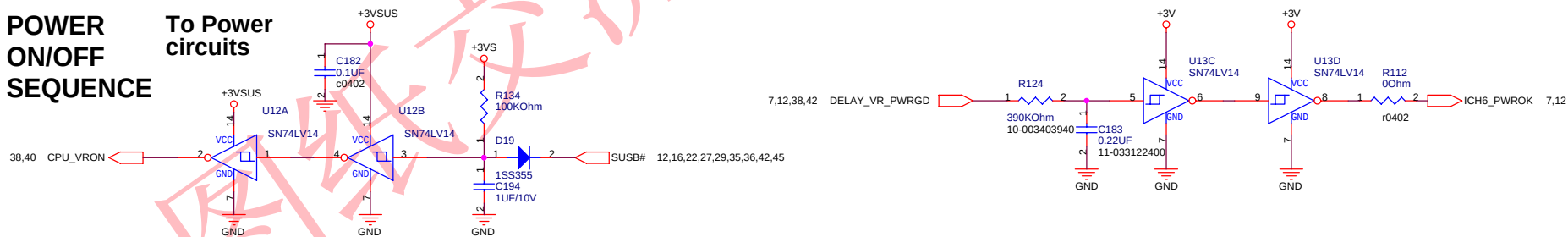




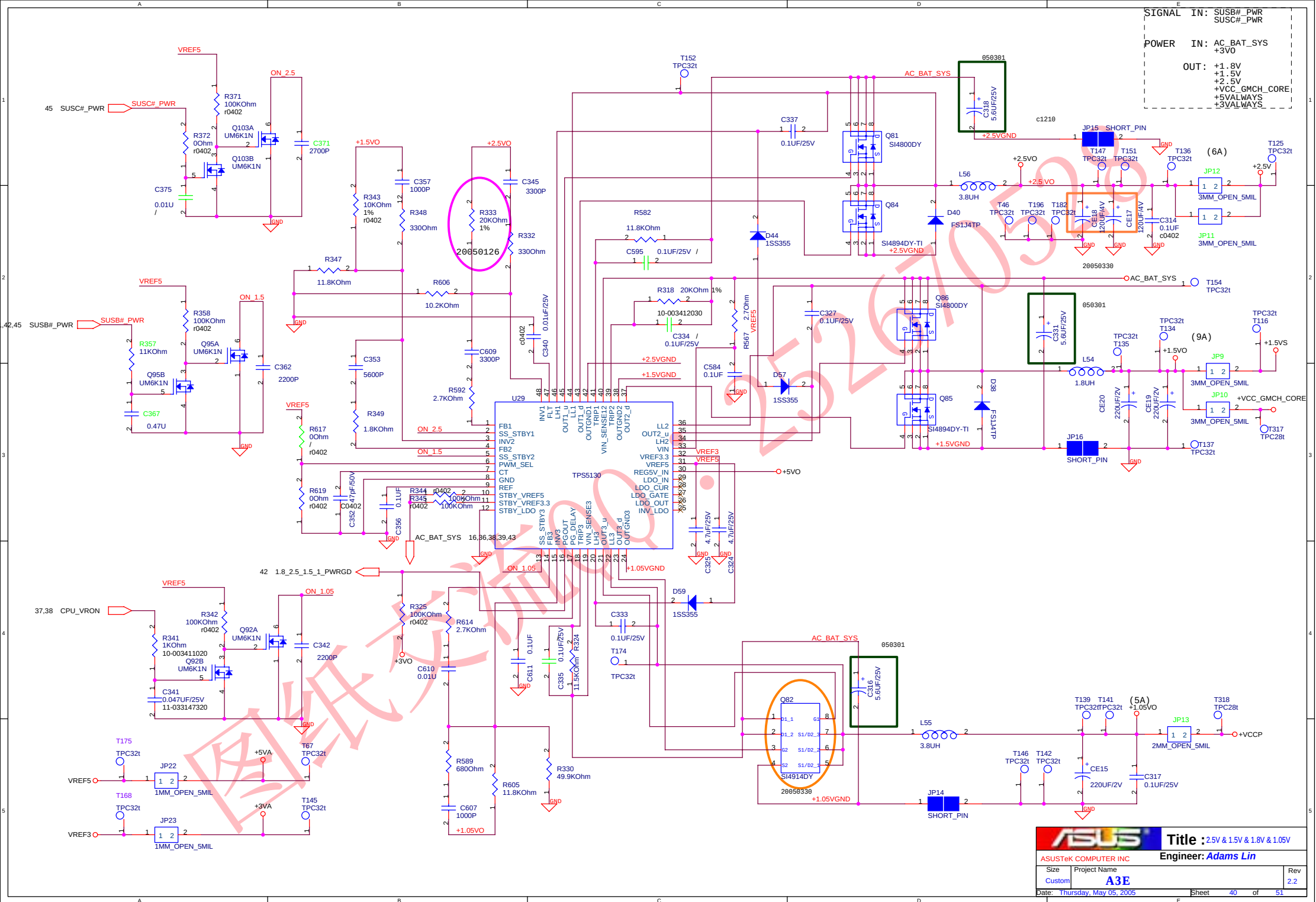


POWER ON/OFF SEQUENCE

To Power circuits

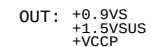




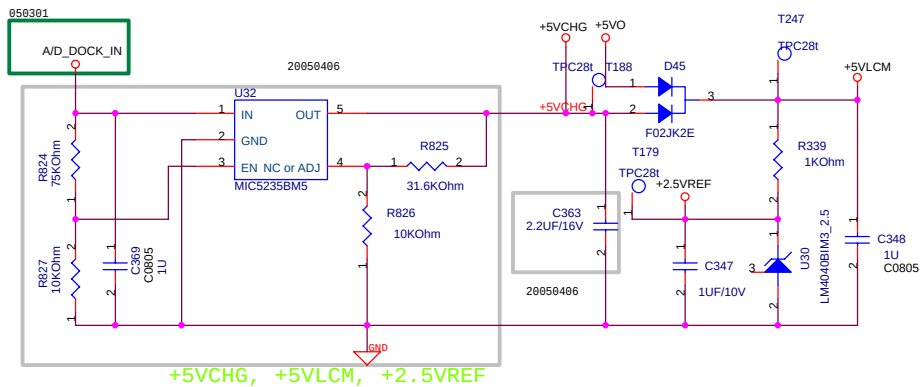


SIGNAL IN: SUSB#_PWR
SUSC#_PWR
POWER IN: AC_BAT_SYS
+3V0
OUT: +1.8V
+1.5V
+2.5V
+VCC_GMCH_CORE
+5VALWAYS
+3VALWAYS

For celeron ,CPU_BSEL0 = HIGH ,FSB=400MHZ ,VCCA0=1.8V ,VCCA123=1.8V



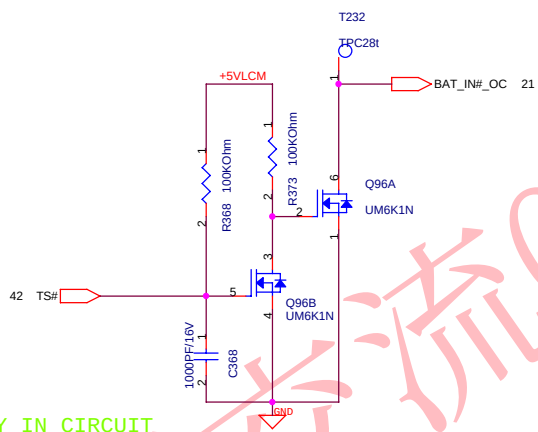
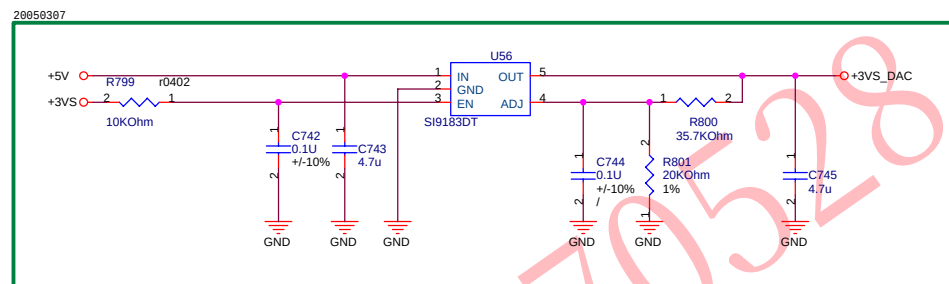


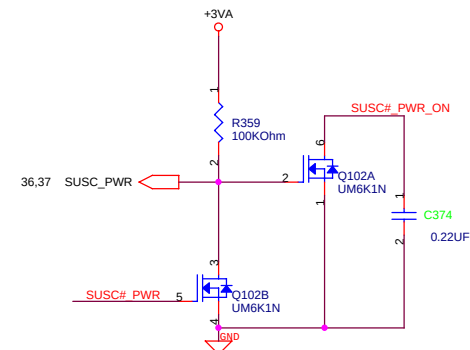
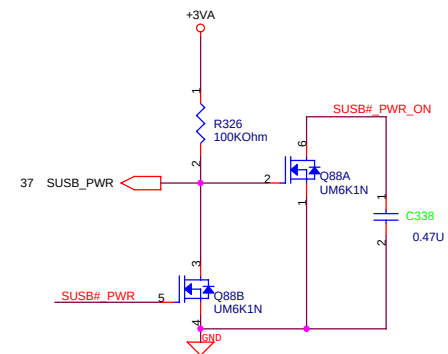
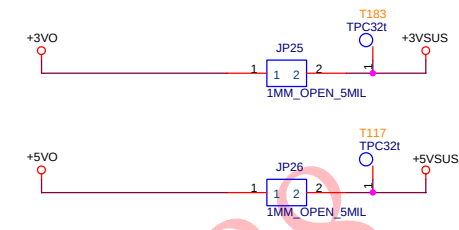
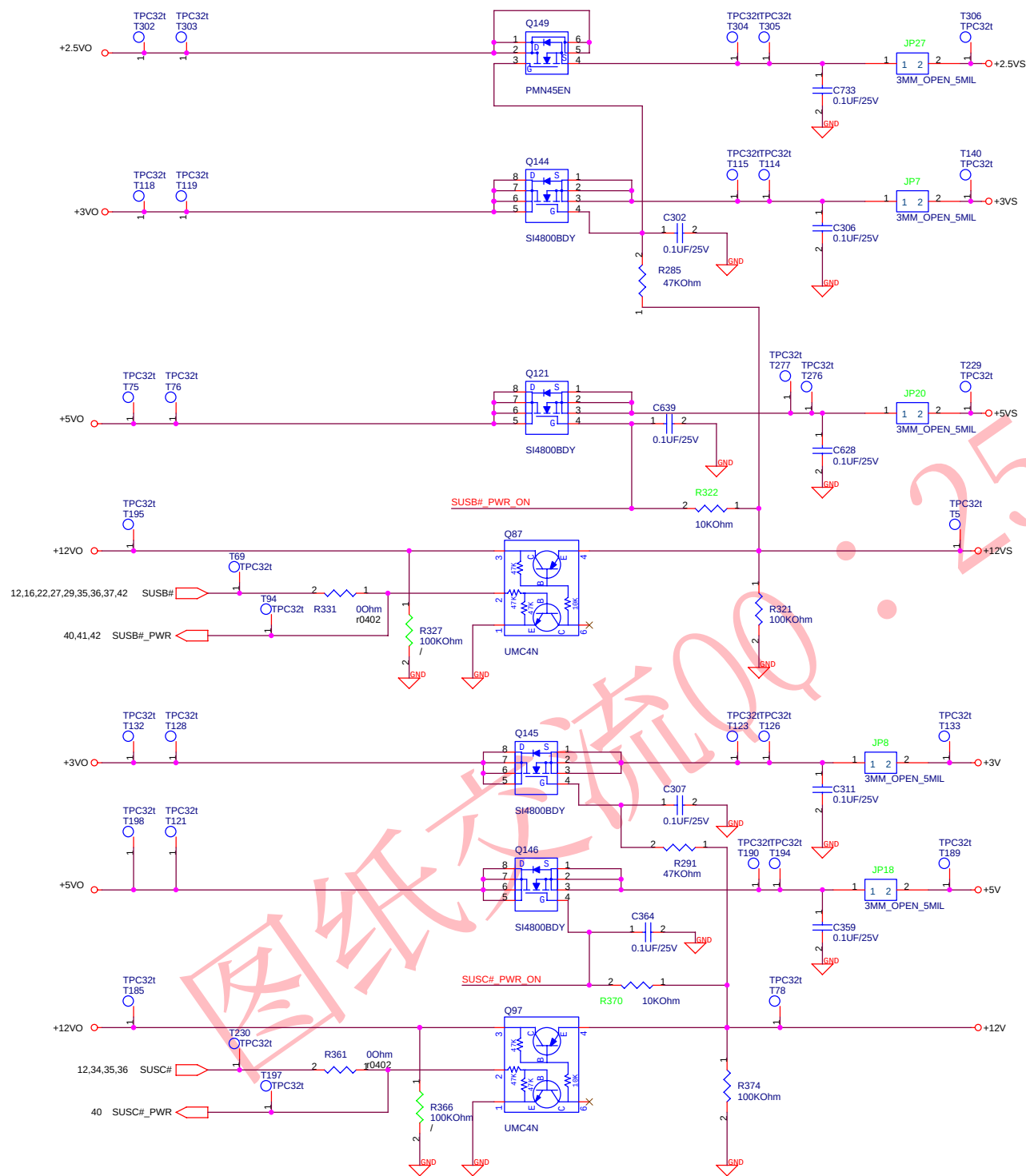


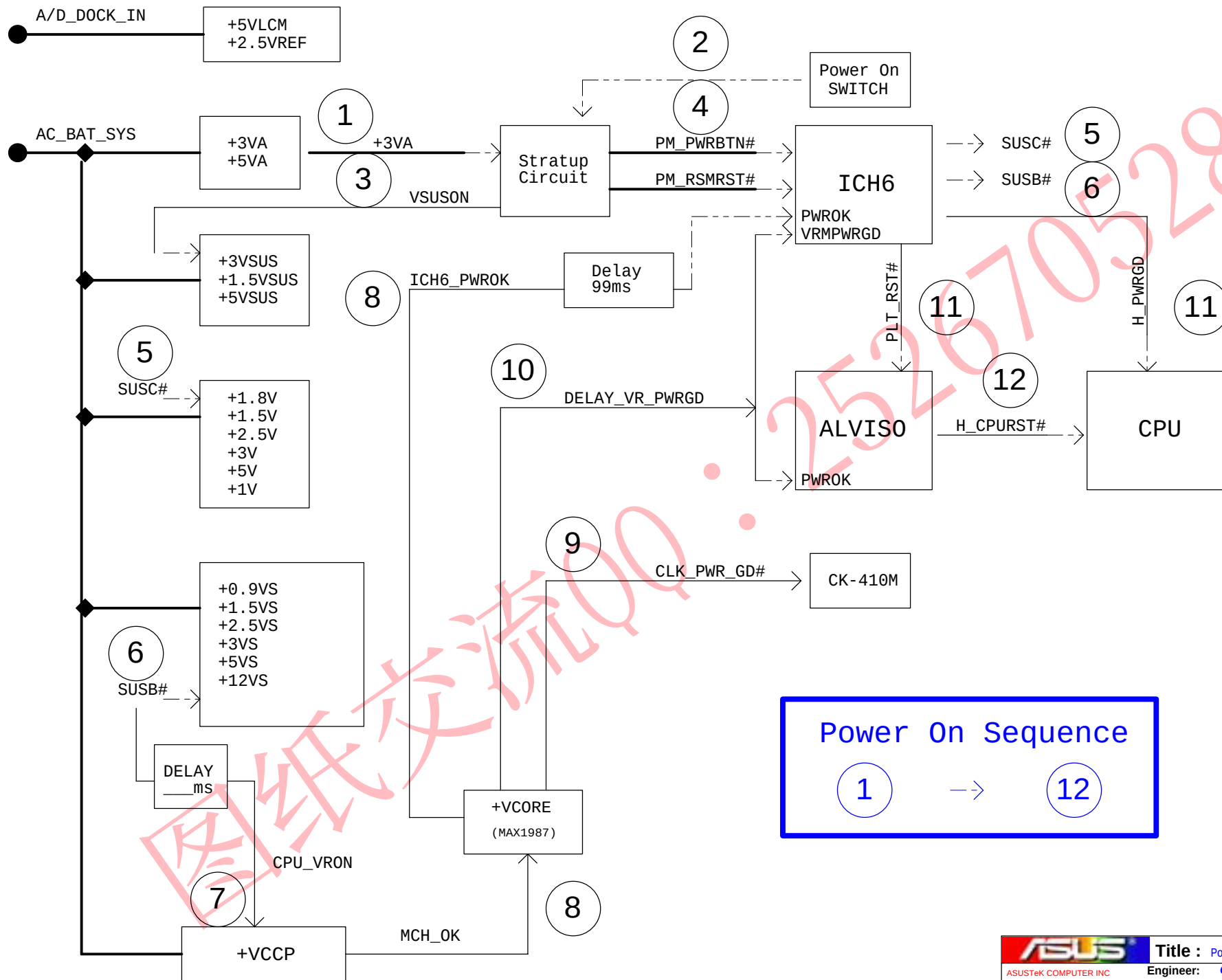
Ref: 1.24V

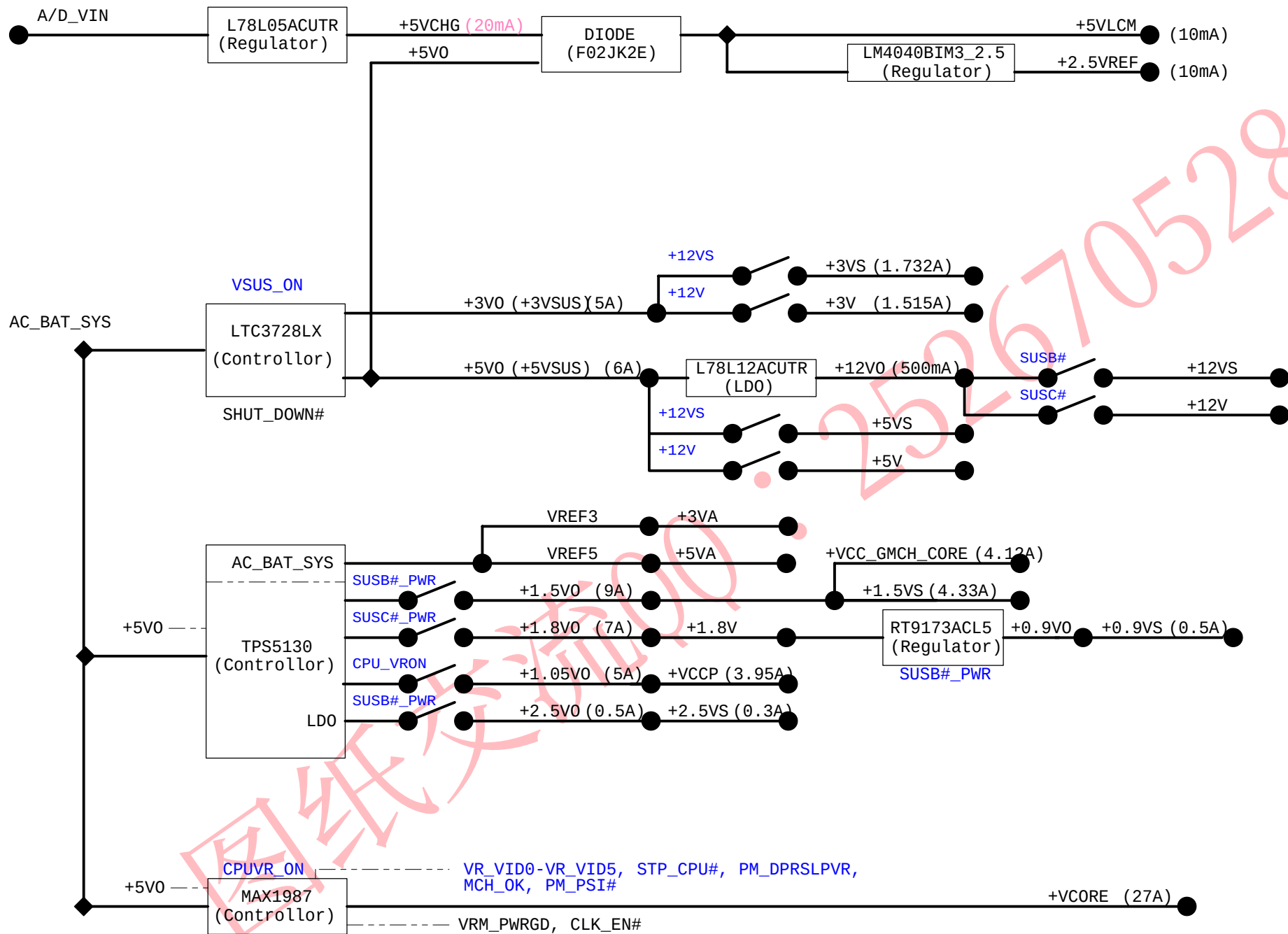
ON: EN>2V

OFF: EN<0.6V









PCI Device	IDSEL#	REQ/GNT#	Interrupts
10/100 RTL8100CL	AD16	2	E
CARD READER	AD17	1	B
CARDBUS	AD17	1	C
1394	AD17	1	D
MINIPCI (802.11a/b/g)	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)
PIC	1001001x (92)

ICH6-M GPIO	A5V	Note	Volt
GPI 0			+3VS
GPI 1			+3VS
GPI 2			+3VS
GPI 3			+3VS
GPI 4			+3VS
GPI 5			
GPI 7			+3VS
GPI 8	EXTSM1#		+3VSUS
GPI 11	LID_ICH#		+3VSUS
GPI 12	KB_SCI#		+3VSUS
GPI 13	SIO_SMI#		+3VSUS
GPI 14			+3VSUS
GPI 15			+3VSUS
GPO 16			
GPO 17			
GPO 19	PWRLED_1HZ		+3VS
GPO 21	BACK_OFF#		+3VS
GPO 23	FWH_WP#		+3VS
GPO 24	802_LED_EN#		+3VSUS
GPI 26	SATA_DET#0	Unused pull-up to Vcc3_3	+3VS
GPI 27			+3VSUS
GPI 28			+3VSUS
GPI 29	PCB_ID2	Default : 0	+3VS
GPI 30	PCB_ID0	Default : 0	+3VS
GPI 31	PCB_ID1	Default : 0	+3VS
GPI 33	CPUFAN_SPD_A		+3VS
GPO 34	WLAN_ON#		+3VS
GPI 40	PANEL_ID0		+3VS
GPI 41	PANEL_ID1		+3VS
GPO 48			
GPO 49			
GPIO 25	CB_SD#	Diode	+3V

KBC GPIO	A5V	Note
P23(Pin 35)	CHG_FULL_OC	
P22(Pin 36)	BAT_LEARN	
P21(Pin 37)	KBC_P21	
P20(Pin 38)	KBCRSM	
P42(Pin 23)	WATCHDOG	
P43(Pin 22)	OP_SD#	POSTCode前拉Low,ACPI前拉High,ACPI後放掉
P44(Pin 21)	KB_CPURST	
P45(Pin 20)	KB_GATEA20	
P46(Pin 19)	KBCSCI	
P47(Pin 18)	PM_CLKRUN#	
P50(Pin 17)	BAT_LLOW#_OC	
P51(Pin 16)	KID1	
P52(Pin 15)	KID2	
P53(Pin 14)	CLR_DJ#	
P54(Pin 13)	BAT_SEL#	
P55(Pin 12)	BAT1_IN#_OC	
P56(Pin 11)	FAN_DA1	
P57(Pin 10)	ADJ_BL	
P67(Pin 74)	DJ_LED#	
P66(Pin 75)	SWDJ_EN#	
P65(Pin 76)	GAIN_AMP_K#	0->-6 V/V 1->NORMAL
P64(Pin 77)	ACIN_OC	
P63(Pin 78)	DISTP#	
P62(Pin 79)	MARATHON#	
P61(Pin 80)	INTERNET#	
P60(Pin 1)	EMAIL#	
P75(Pin 4)	KB_CLK	
P74(Pin 5)	MS_CLK	
P73(Pin 6)	TPAD_CLK	
P72(Pin 7)	KB_DAT	
P71(Pin 8)	MS_DAT	
P70(Pin 9)	TPAD_DAT	
P77(Pin 2)	SMC_BAT	
P76(Pin 3)	SMD_BAT	
P27(Pin 31)	SCROLL_LED#	
P26(Pin 32)	NUM_LED#	
P25(Pin 33)	CAP_LED#	
P24(Pin 34)	SET_PLTRSTNS#	
P40(Pin 27)	EXT_SMI	
P41(Pin 26)	EMAIL_LED#	

Rev.	Data	Description
1.0	05' 01/06	Initial release
2005/01/21-1140		R735.R736.R750.R752 footprint change to 0603
		JP28 for CMOS clear renames to JRST1 and no mount U19.77 signal changes to ACIN_OC and R245 still mount R73.R75.R76.R77 value change to 470ohm and R41 is 330ohm R519 value changes to 100Kohm
2005/01/24-1035		Add SW8 ,R797 but no mount
2005/01/26-0945		R109 value changes to 820Kohm D72 mount
2005/02/01-1300		R735.R736.R750.R752 tolerance change to 1%
2005/02/21-1300		Add test point :T309(+Vcc_RTC).T310(+RTCBAT).T311(R545.2). T312(PWR_SW#).T313.T314.T315(++AC_IN)
2005/03/01-1130		Add R798 to connect signal MIC_IN_R and MIC_IN_L R163. L43 no mount Add Q154 .Q155 to let LID_SW# to control PWR_SWB# and DJ_SWB# to be on or off Add D91 to connect to SHUT_DOWN# signal
2005/03/04-1600		U19.13 exchange to U19.35 (BAT_SEL# exchange to CH6_FULL_OC) GPIO29=PCB_ID0,GPIO30=PCB_ID1,GPIO31=PCB_ID2 PCB_ID0=1,PCB_ID1=0,PCB_ID2=0
2005/03/07-1500		R518 change to 100Kohm to prevent from +3VA sinking too much current Change CE10 to power and change CE9 to 470UF/2.5V L27.2 and L22.2 change to +3VS_DAC
2005/03/08-0950		Add D92.D93.D94,U57,C746,R802.R803.R804 to prevent from abnormal shut down in startup circuit Change R41 value to 470ohm,R77.R75.R76.R73.R240.R235.R248.R263 to 510ohm Change R184 to 100Kohm and add C747 1uF/10V Add T334 to R788.1 for KBCRSM signal
2005/03/10-1128		Colay Q156, R805and Q157,R806 for keep from PCMCIA device current leakage Q125,Q30,Q127 turn on voltage change to a RC delay +12V Add R811.C750.R812 for +12V_DELAY_0 signal Add R809.C749.R810 for +12V_DELAY_1 signal Add R807.C748.R808 for +12V_DELAY_2 signal
2005/03/11-1120		Add C751.C752 for EMI(P.28) Add C754.C755 100PF for EMI(P.16) Add C753 100PF. R815 0ohm for EMI(P.16) Add U58.U59 for EMI(P.4) Add R813 to pull up LID_SW# to +3VA Add D95.R814 to make RESET button (SW7) function to be ok
2005/03/14-1040		Delete T53.T207.T217.T214.T211.T212.T209.T216 Add C756.C757 47UF/6.3V 1206 to +2.5VS on page 9 Add D96.RP5.RP6.R816 and pull to +5VS for LPT C751.C752 footprint change to 1812_h71 Add H26.H27
2005/03/15-2050		Add R817 10Kohm to pull high to +3VS on page 5

Rev.	Data	Description
2005/03/16-1600		R178.R198 value change to 3.9Kohm 1% C630.C631.C632.C633 still mount C751.C752 still mount R625.R632.R633.R634 change to 120ohm/100MHz bead R175.R199 still mount L50.R150 change to 1Kohm/100MHz bead L6.L7.L8 change to 60ohm /100MHz bead R162 change value to 4.7Kohm 1% CE9 change to 470UF/2.5V
Rev 2.1		
2005/03/29-1710		Add D63 back and D94 is no mount
2005/04/01-1228		Add U52B,D98,D97,R818,C758,Q158 for start up circuit D23.D24 no mount Add R819.C759 between U1.5 (FLG) and USB_OC_01# Add R820.C760 between U7.5 (FLG) and USB_OC_23# C751.C752 footprint changes to C1808_inverter_h79
2005/04/06		L21.L37 change to 0ohm resistance (0805) Add U60.R822.R823.Q159 for LED signal

Rev.	Data	Description
For RM:		
2005/01/24-1035	Page 31 no mount	: R566, Q114, Q115, C579, C564
	Page 20 no mount	: R54, R43, Q16, Q19, R412
	Page 41 no mount	: R657, R643, Q122, Q123
	Mount SW8	, R797
	Add SWITCH TABLE for CPU frequency select	

Rev.	Data	Description

Rev.	Data	Description
1.0	05' 01/06	Initial release
2005/01/21-1200		Add 22Kohm R794.R795 , P-MOS Q151 , diode D88.D89
2005/01/21-1200		Add capacitor C739, resistor R796,N-MOS Q152,diode D90
2005/01/21-1200		R677 value is from 110Kohm to 107Kohm and R677.1 connect to A/D_DOCK_IN
2005/01/21-1200		R680 value is from 14Kohm to 13.7Kohm and D81 changes to F01J2E
2005/01/21-1200		D83 mount and R705 no mount and R725 mount
2005/01/26-0945		R333 value changes to 20Kohm
2005/01/26-0945		Add Q153 for ACIN_OC and AC_APR_UC signals and delete D90
2005/01/26-0945		Change U53.18 and U53.19 for signal VREF_CH
2005/01/26-0945		Delete JP24 and add a cap C740 0.1UF
2005/01/26-0945		C725 still mount and R706 no mount
2005/01/26-0945		R741 value changes to 23.2K ohm
2005/01/26-1250		C666 changes to connect to L83.2
2005/01/28-1200		C666 no mount
2005/02/21-1300		Add test point : T316(+12V0).T317(+VCC_GMCH_CORE).T318(+VCCP). T319(CPU_VCCA0).T320(CPU_VCCA123).T322(R631.1).T323(R630.1). T324(R629.1).T321(POWERGD).T329(R796.2).T326(A/D_SD).T325(D88.2). T332(C658.1).T330(R684.2).T333(C661.1).T327(BAT_1P).T331(C653.2). T328(PRECH6)
2005/03/01-1800		Change C59, C58, C176, C184, C366, C320, C318, C331, C316, C651 to POSCAP 5.6UF/25V Add D90 for Charger noise(P. 43) Remove C666, R705, R689 Change r706 to 5.1Kohm Change U53 Pin 21 connector to +5VCH6 Change U32 Pin 1 connector to A/D_DOCK_IN Change C441 to 330UF/2V SP-CAP Change C98 to 470UF/2.5V POSCAP Add C741 47PF/50V with R700(P.43) Change C667 to 15UF/2.5V POSCAP
2005/03/30-1124		Change R677 to 100Kohm Change R680 to 13Kohm Change CE17,CE18 to 220UF/4V Mount R283 Change Q82, Q83, Q89 to SI4914
2005/04/01-1640		Change CE17,CE18 to 120UF/4V Add R821 47Kohm for boot issue

Rev.	Data	Description
2005/04/06-1524		Change U32 to MIC5235BM5 Add R824=75K, R827=10K, R825=31.6K, R826=10K Change C363 to 2.2UF/16V Change R821 to unmount