

Model Name: 8I945PL-G

SHEET TITLE

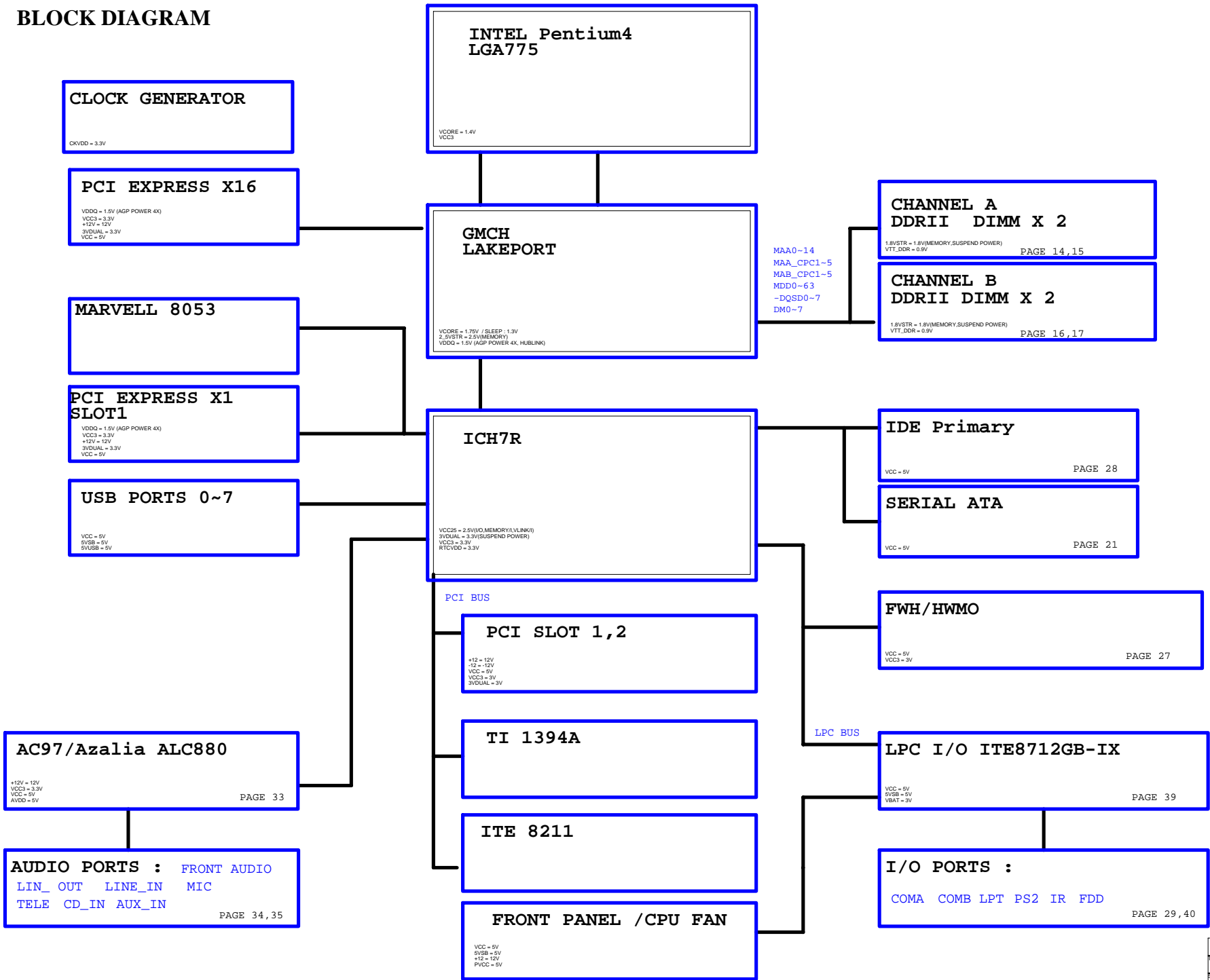
01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	P4_LGA775_A
05	P4_LGA775_B
06	P4_LGA775_C
07	P4_LGA775_D
08	GMCH-LAKEPORT_HOST
09	GMCH-LAKEPORT_DDRII
10	GMCH-LAKEPORT_PCI E, DMI
11	GMCH-LAKEPORT_INT VGA
12	GMCH-LAKEPORT_GND
13	GMCH-LAKEPORT_PWR
14	DDRII CHANNEL A 1,2
15	DDRII CHANNEL B 1,2
16	DDRII TERMINATION
17	PCI EXPRESS*16 SLOT
18	ICH7 PCI, USB, DMI, LAN
19	ICH7 IDE, GPIO, SATA, CTRL
20	ICH7 VCC, GND
21	ICS954148AF CLOCK.
22	ATX,ATX_12V CONNECT,DUAL BIOS
23	PCI EXPRESS*1 SLOT 1,2
24	PCI SLOT 1,2,3
25	H/W MONITOR,FAN
26	IDE
27	KB_PS2,S.P.R

SHEET TITLE

28	FRONT PANEL
29	FRONT USB,REAL USB CONNECT
30	PROCESSOR HOT
31	AZALIA CODEC ALC880
32	AUDIO JACK 1
33	AUDIO JACK 2
34	TI1394B
35	TI1394B
36	MARVELL 88E8053 LAN
37	ITE 8712GB
38	COM_LPT
39	VCORE PWM
40	DISCRETE POWER
41	ITE8212 RAID
42	ITE8212 RAID
43	GPIO DEFINE
44	GPIO DEFINE



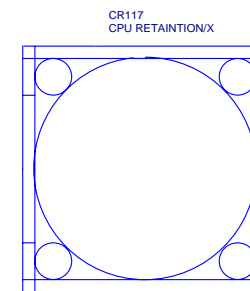
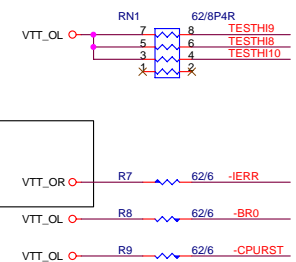
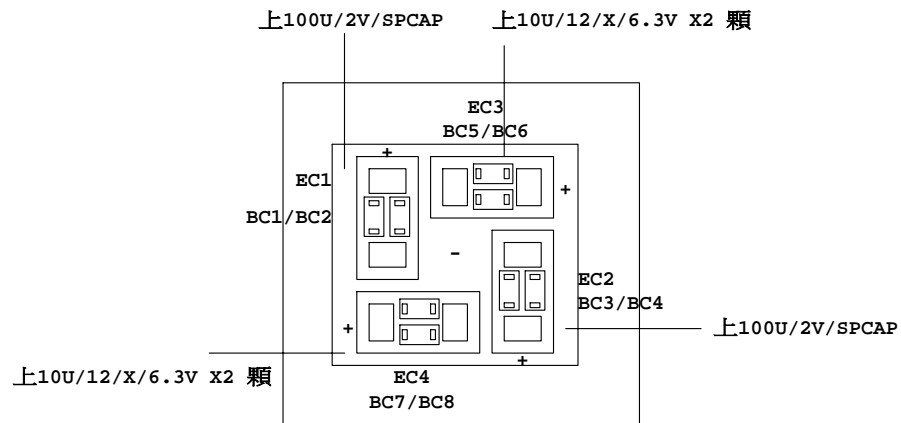
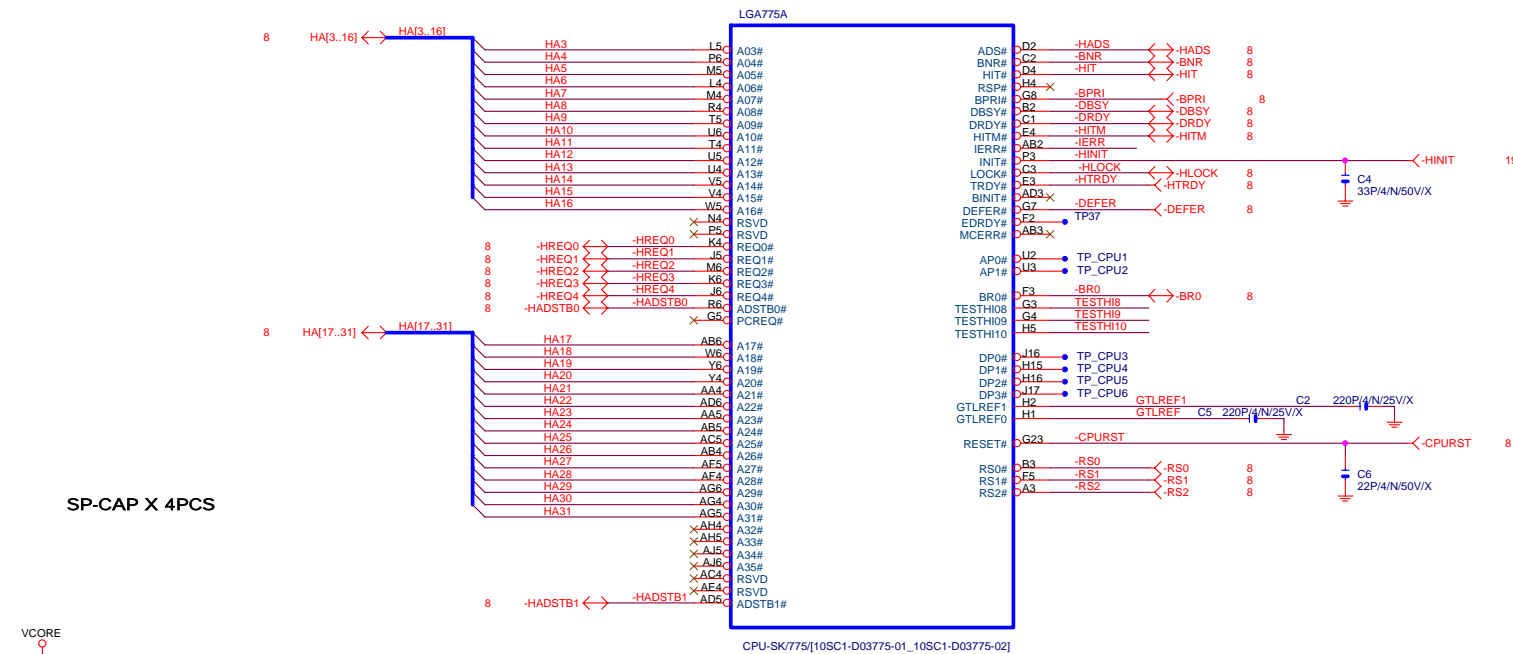
BLOCK DIAGRAM

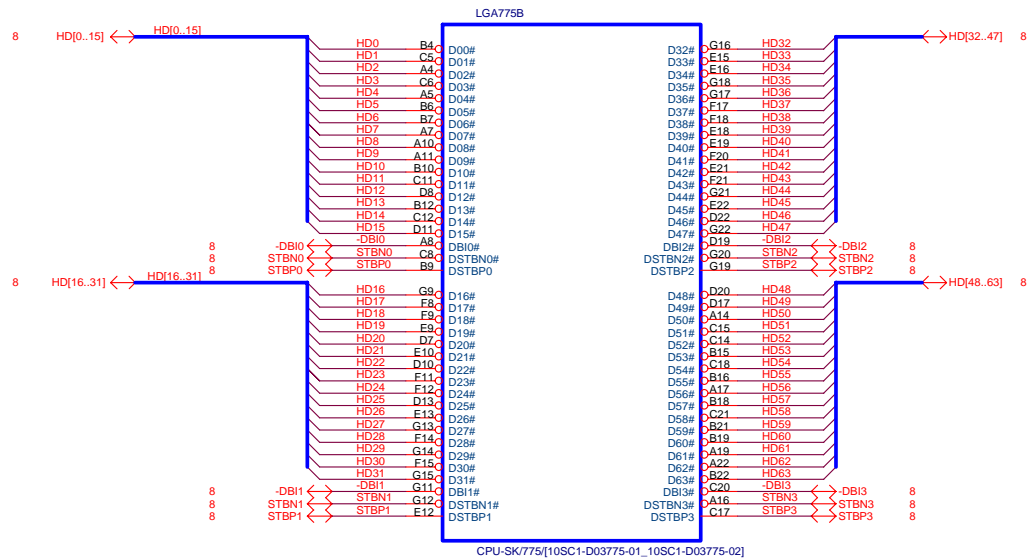


Component value change history

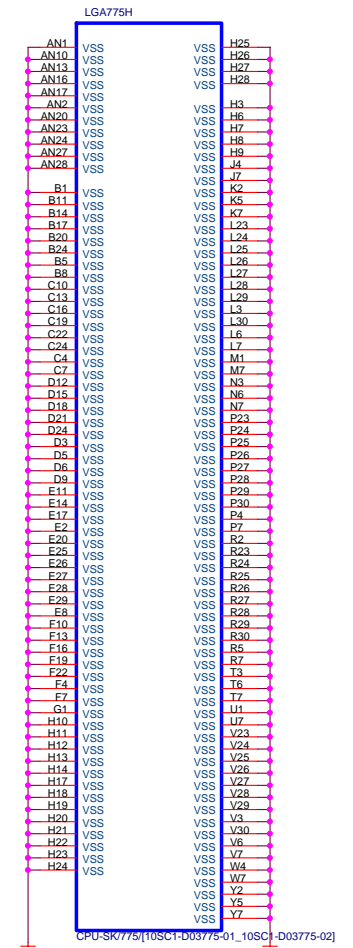
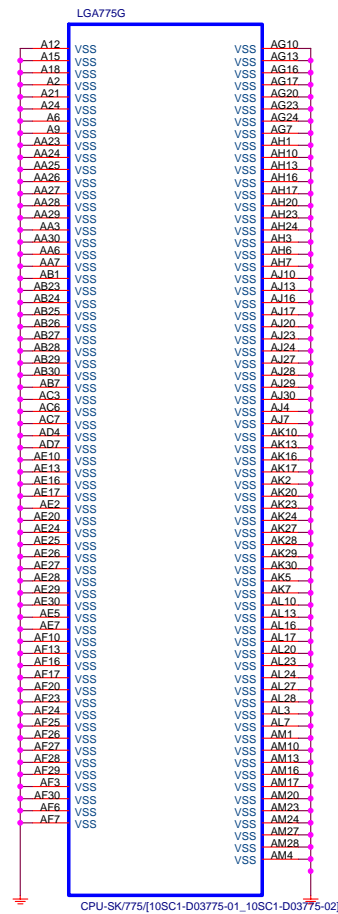
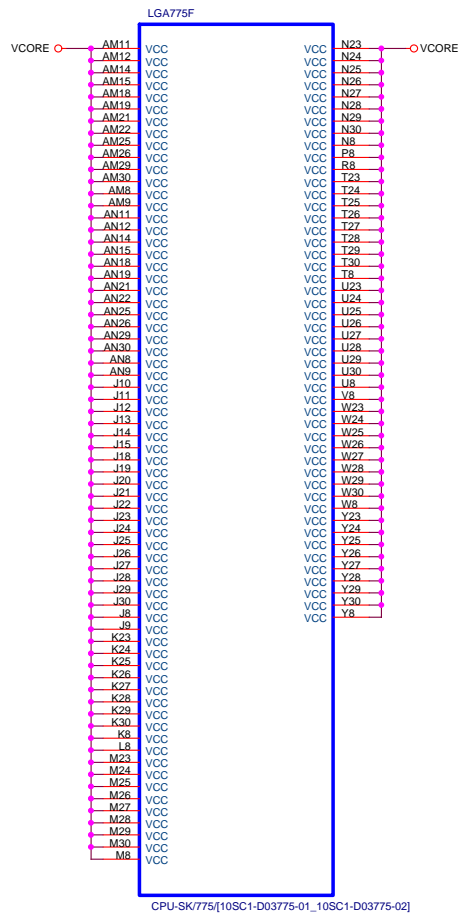
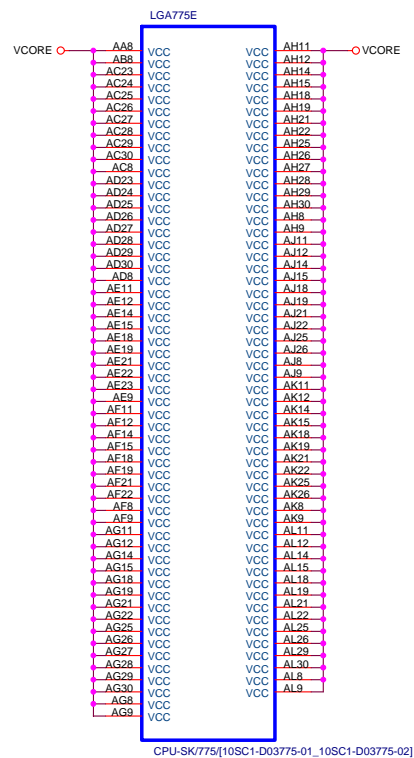
Circuit or PCB layout change
for next version

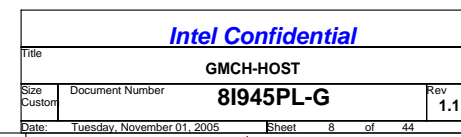
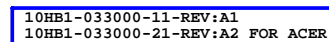
[illegible]

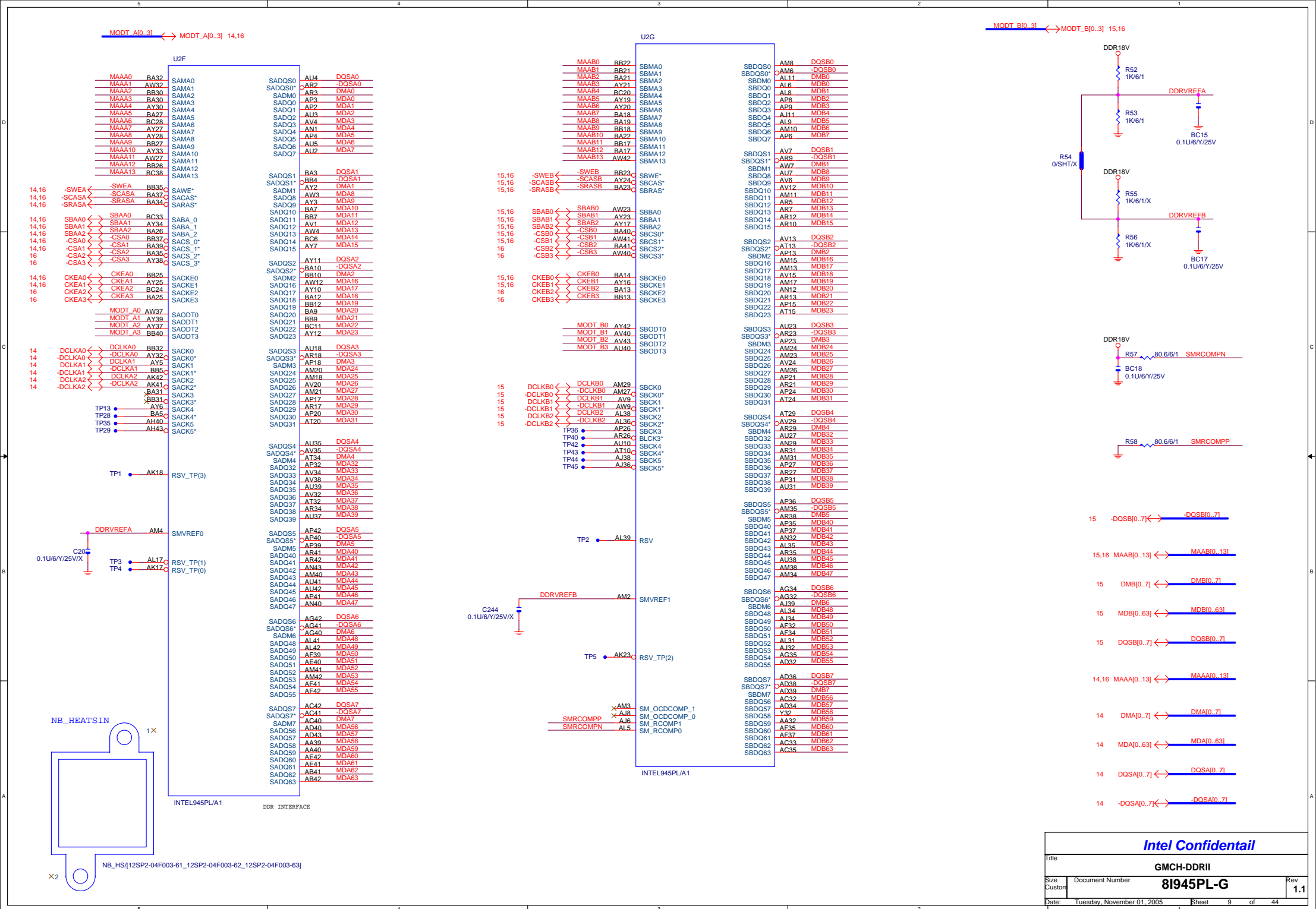


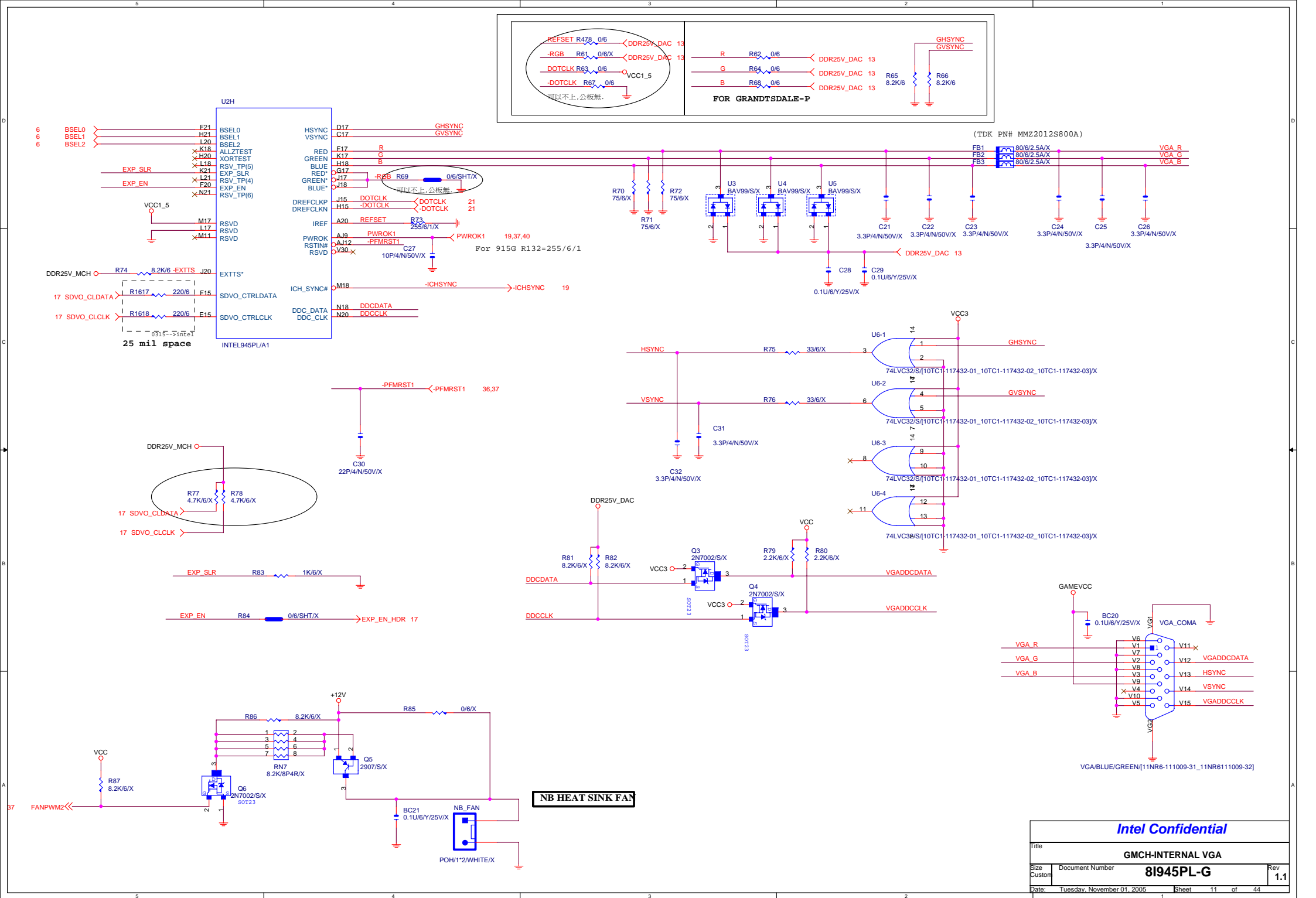


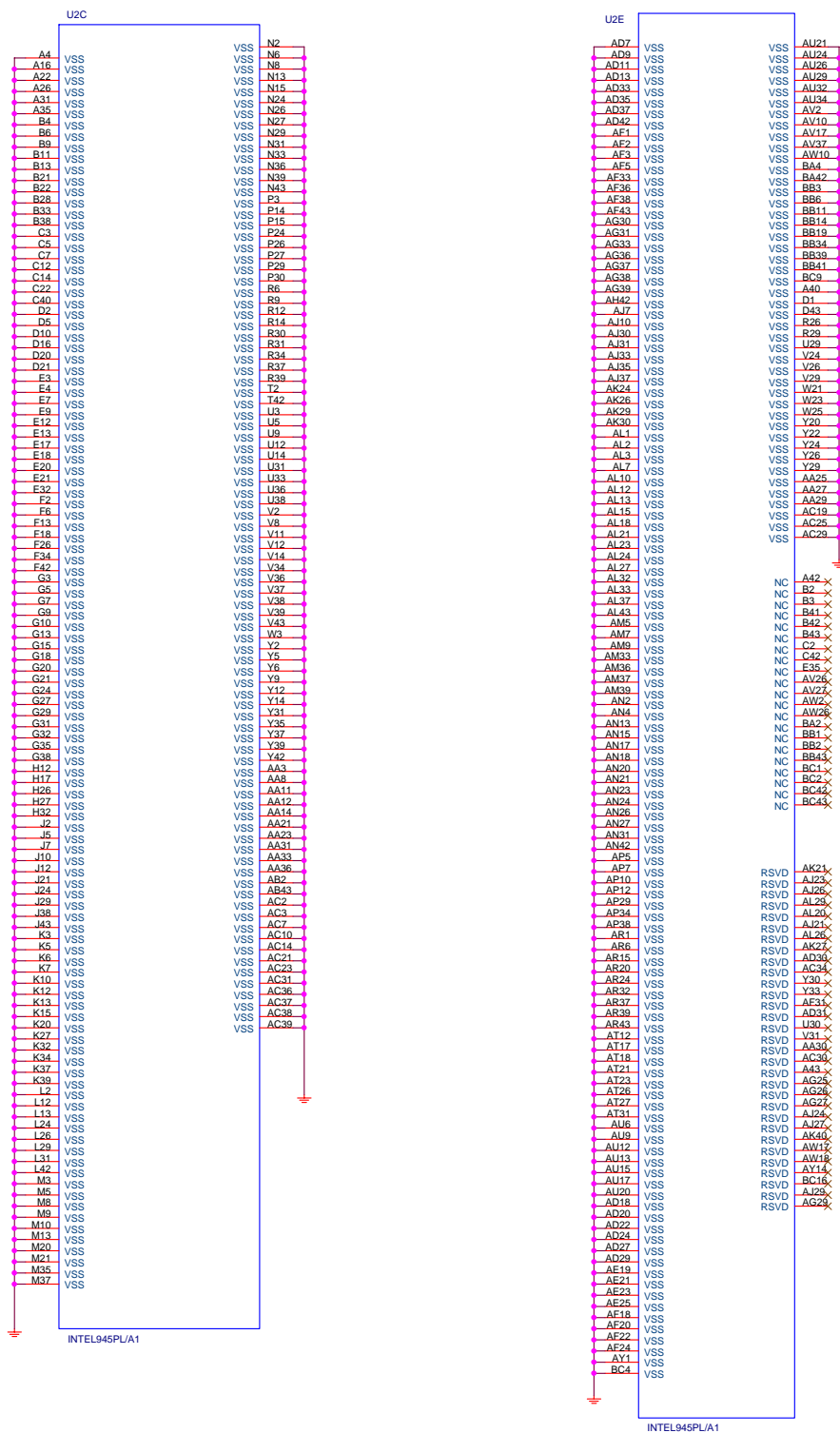
Sheet 6 of 44











1.425~1.575V

1.7~1.9V

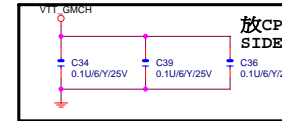
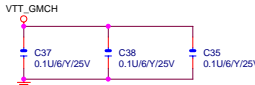
1.14~1.26V

2.375~2.625V

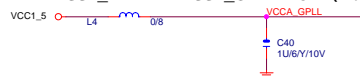
1.425~1.575V

VCCA_DAC=DDR25V_DAC=70mA (2.375~2.625V)

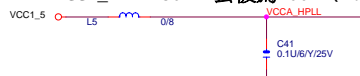
945 Design Guide rev1.5 spec.
VCCA_EXPPLL=VCCA_GPLL=45mA (1.425V~1.575V)
VCCA_HPLL>50mA 公板爲200mA (1.425V~1.575V)
VCCA_DPLLA=65mA (1.425V~1.575V)
VCCA_DPLLB=65mA (1.425V~1.575V)
VCCA_MPLL>50mA (1.425V~1.575V)
VCCA_DAC=DDR25V_DAC=70mA (2.375~2.625V)



VCCA_EXPPLL=VCCA_GPLL=45mA (1.425V~1.575V)



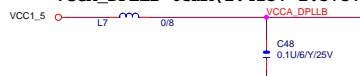
VCCA_HPLL>50mA 公板爲200mA (1.425V~1.575V)



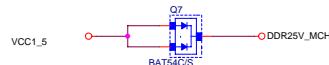
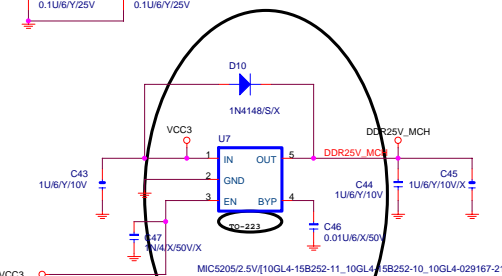
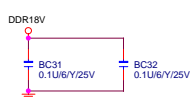
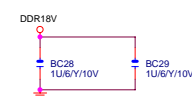
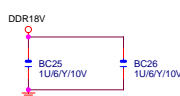
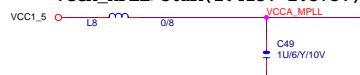
VCCA_DPLLA=65mA (1.425V~1.575V)

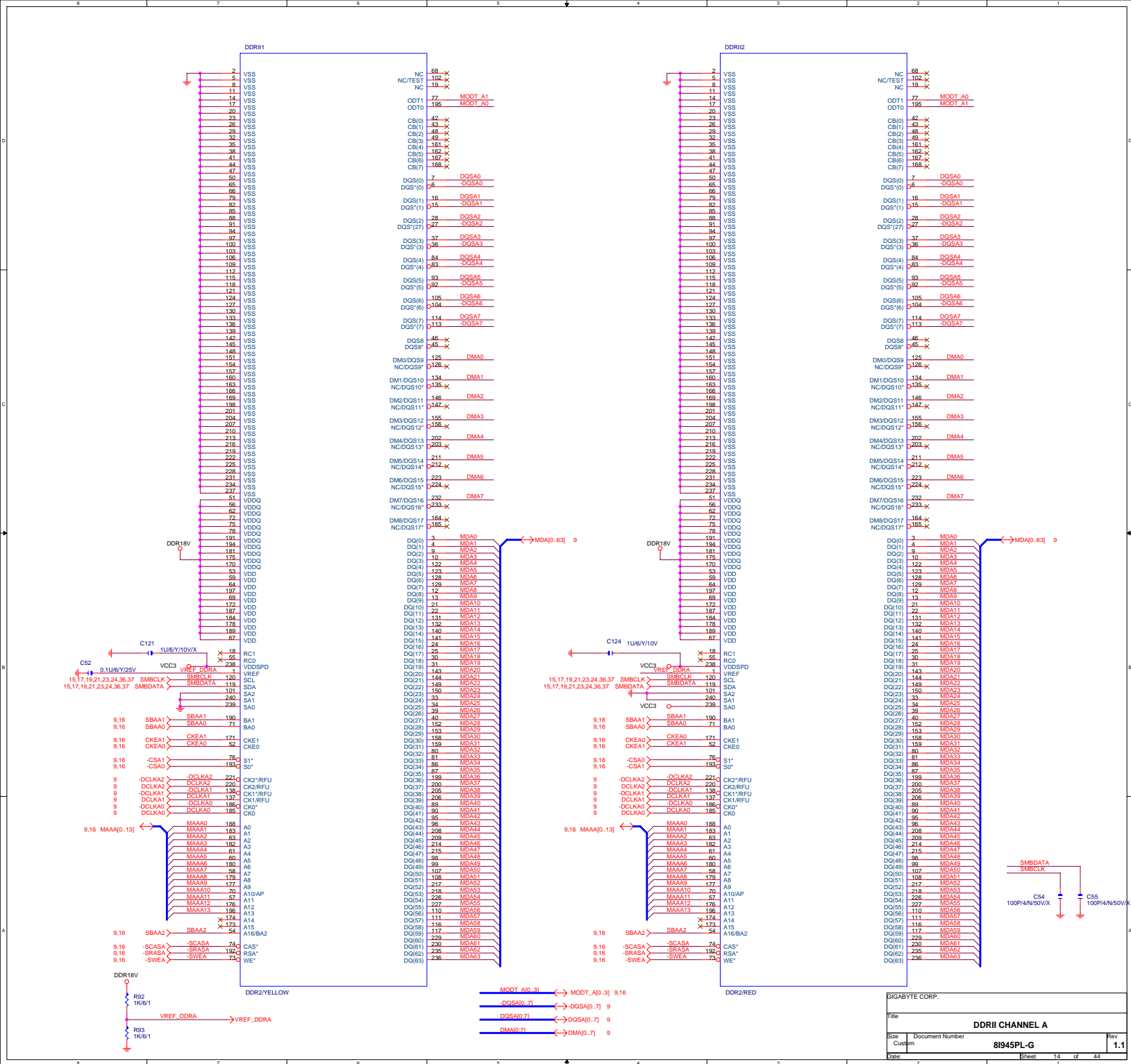


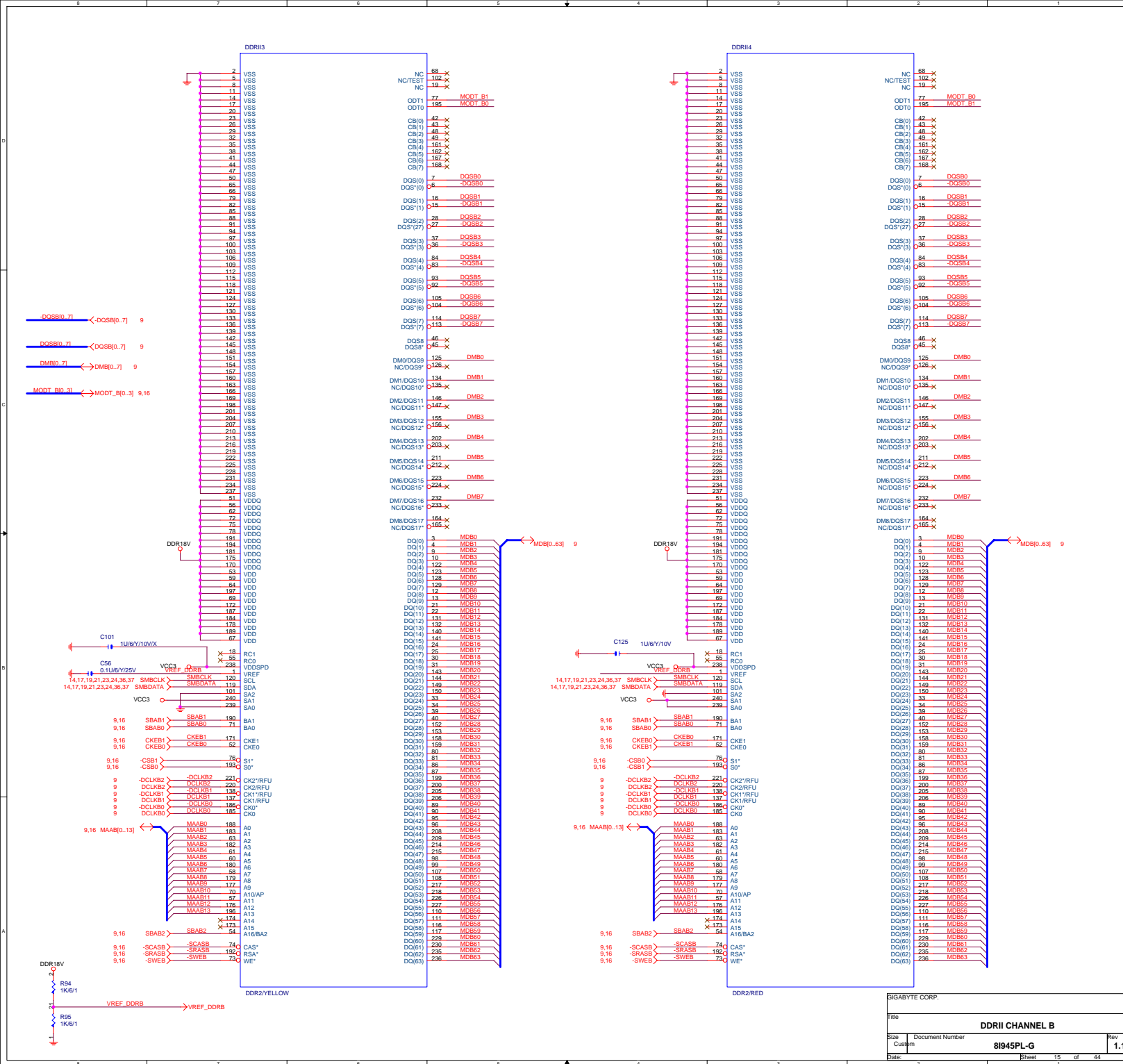
VCCA_DPLLB=65mA (1.425V~1.575V)



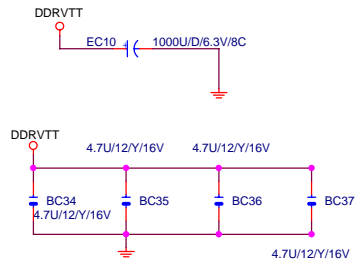
VCCA_MPLL>50mA (1.425V~1.575V)



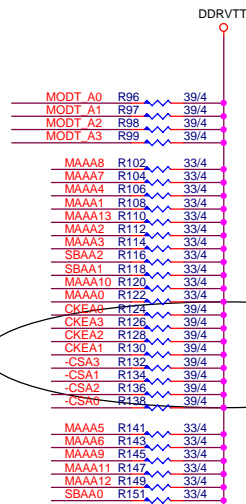
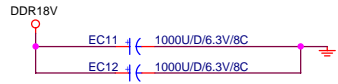




DDRVTT Decouple



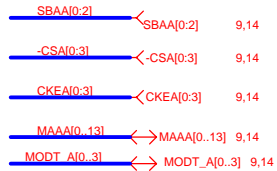
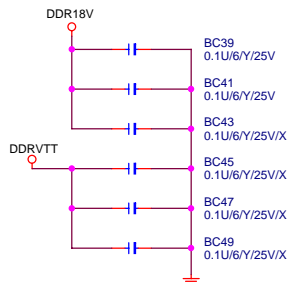
DDR TERMINATION CHANNEL A



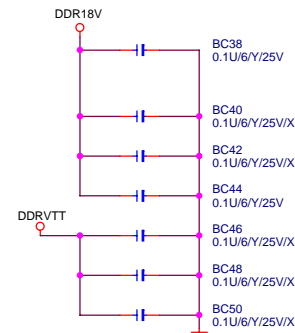
全部改成33/6



DDR18V Decouple

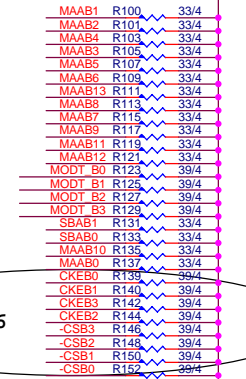


DDRVTT Decouple

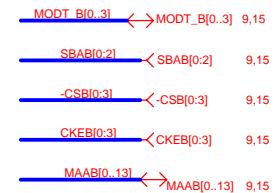


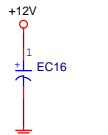
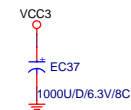
DDR18V Decouple

CHANNEL B



全部改成33/6





14,15,19,21,23,24,36,37 SMBCLK
14,15,19,21,23,24,36,37 SMBDATA

3VDUAL VCC3

23 -PE_WAKE -PCIE_WAKE

11 SDVO_CLKCLK SVDO_CLKCLK

11 SDVO_CLDATA SVDO_CLDATA

11 EXP_EN_HDR

VCC3 R1619 1K/6/X
0315-->1nTeI

EXP_A_TXP0	C59	0.1U/6/Y/25V	EXP_A_TXP0C
EXP_A_TXN0	C60	0.1U/6/Y/25V	EXP_A_TXN0C
EXP_A_TXP1	C61	0.1U/6/Y/25V	EXP_A_TXP1C
EXP_A_TXN1	C62	0.1U/6/Y/25V	EXP_A_TXN1C
EXP_A_TXP2	C63	0.1U/6/Y/25V	EXP_A_TXP2C
EXP_A_TXN2	C64	0.1U/6/Y/25V	EXP_A_TXN2C
EXP_A_TXP3	C65	0.1U/6/Y/25V	EXP_A_TXP3C
EXP_A_TXN3	C66	0.1U/6/Y/25V	EXP_A_TXN3C
EXP_A_TXP4	C67	0.1U/6/Y/25V	EXP_A_TXP4C
EXP_A_TXN4	C68	0.1U/6/Y/25V	EXP_A_TXN4C
EXP_A_TXP5	C69	0.1U/6/Y/25V	EXP_A_TXP5C
EXP_A_TXN5	C70	0.1U/6/Y/25V	EXP_A_TXN5C
EXP_A_TXP6	C71	0.1U/6/Y/25V	EXP_A_TXP6C
EXP_A_TXN6	C72	0.1U/6/Y/25V	EXP_A_TXN6C
EXP_A_TXP7	C73	0.1U/6/Y/25V	EXP_A_TXP7C
EXP_A_TXN7	C74	0.1U/6/Y/25V	EXP_A_TXN7C
EXP_A_TXP8	C75	0.1U/6/Y/25V	EXP_A_TXP8C
EXP_A_TXN8	C76	0.1U/6/Y/25V	EXP_A_TXN8C
EXP_A_TXP9	C77	0.1U/6/Y/25V	EXP_A_TXP9C
EXP_A_TXN9	C78	0.1U/6/Y/25V	EXP_A_TXN9C
EXP_A_TXP10	C79	0.1U/6/Y/25V	EXP_A_TXP10C
EXP_A_TXN10	C80	0.1U/6/Y/25V	EXP_A_TXN10C
EXP_A_TXP11	C81	0.1U/6/Y/25V	EXP_A_TXP11C
EXP_A_TXN11	C82	0.1U/6/Y/25V	EXP_A_TXN11C
EXP_A_TXP12	C83	0.1U/6/Y/25V	EXP_A_TXP12C
EXP_A_TXN12	C84	0.1U/6/Y/25V	EXP_A_TXN12C
EXP_A_TXP13	C85	0.1U/6/Y/25V	EXP_A_TXP13C
EXP_A_TXN13	C86	0.1U/6/Y/25V	EXP_A_TXN13C
EXP_A_TXP14	C87	0.1U/6/Y/25V	EXP_A_TXP14C
EXP_A_TXN14	C88	0.1U/6/Y/25V	EXP_A_TXN14C
EXP_A_TXP15	C89	0.1U/6/Y/25V	EXP_A_TXP15C
EXP_A_TXN15	C90	0.1U/6/Y/25V	EXP_A_TXN15C

EXP_A_TXP8C EXP_A_TXN8C

EXP_A_TXP9C EXP_A_TXN9C

EXP_A_TXP10C EXP_A_TXN10C

EXP_A_TXP11C EXP_A_TXN11C

EXP_A_TXP12C EXP_A_TXN12C

EXP_A_TXP13C EXP_A_TXN13C

EXP_A_TXP14C EXP_A_TXN14C

EXP_A_TXP15C EXP_A_TXN15C

EXP_A_TXP15C EXP_A_TXN15C

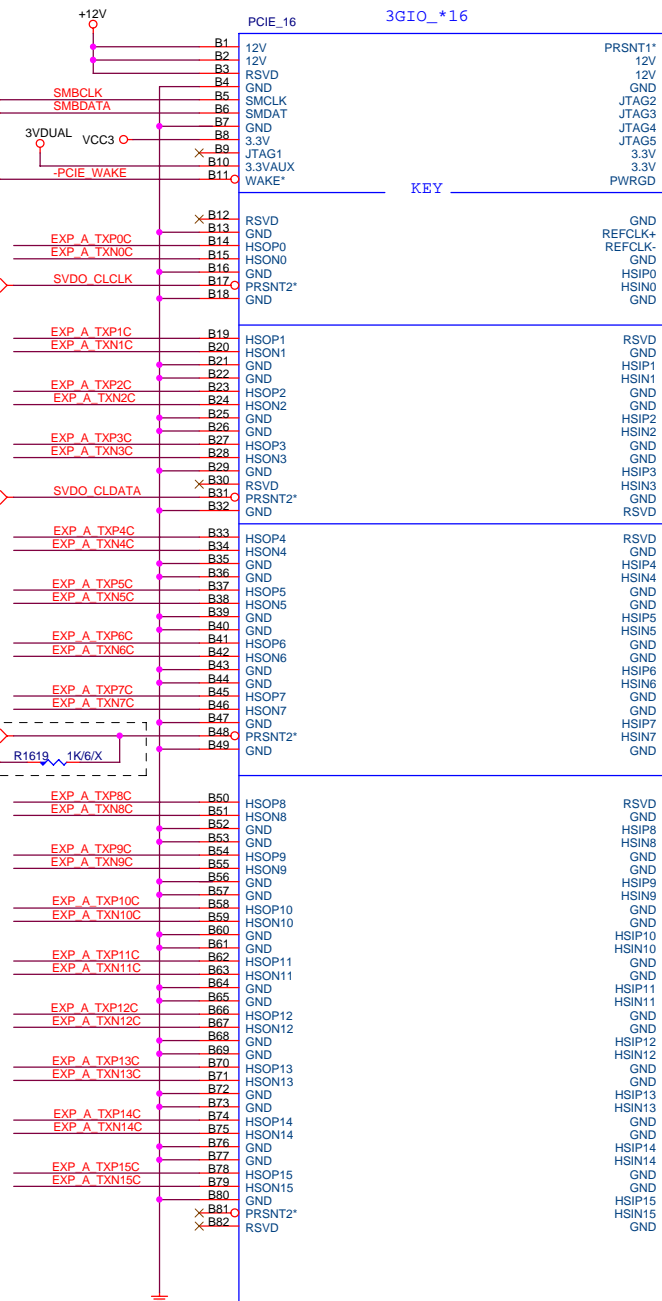
EXP_A_TXP15C EXP_A_TXN15C

EXP_A_TXP15C EXP_A_TXN15C

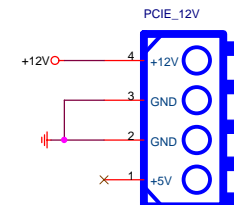
EXP_A_TXP15C EXP_A_TXN15C

EXP_A_TXP15C EXP_A_TXN15C

EXP_A_TXP15C EXP_A_TXN15C



PCI-E16/L[11AC1-021164-61]



PWR_4PIN/HDD[11NH4-010004-01]/X



EXP_A_RXP[0..15] EXP_A_RXP[0..15] 10

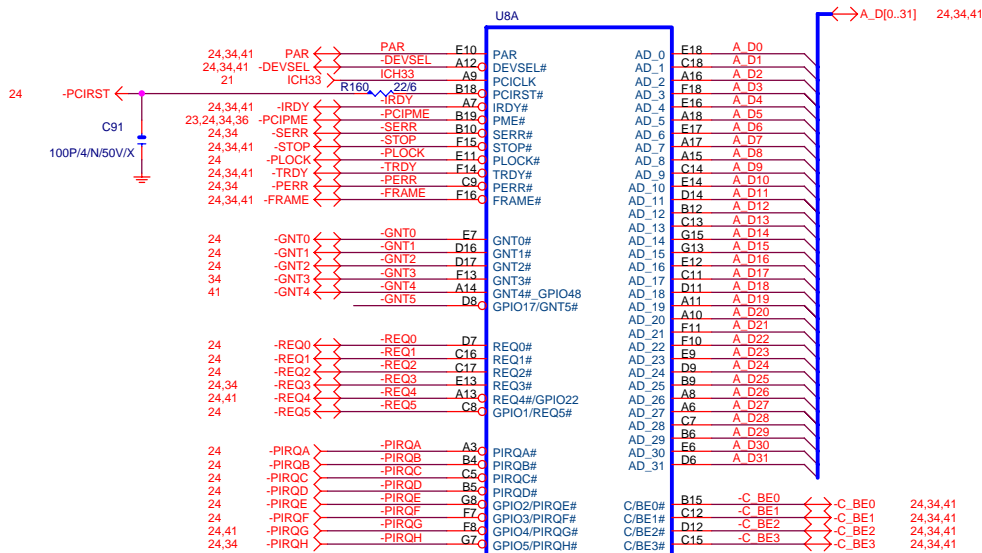
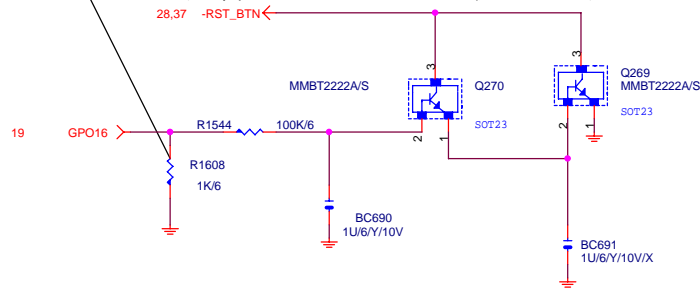
EXP_A_RXN[0..15] EXP_A_RXN[0..15] 10

Intel Confidential

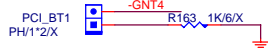
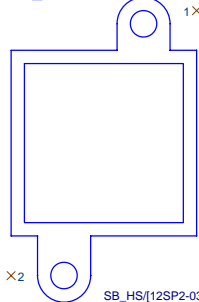
Title			PCI EXPRESS * 16	
Size			81945PL-G	
Custom			Rev 1.1	
Date:	Tuesday, November 01, 2005	Sheet	17	of 44

FOR ICH7R POWER ON 瞬間會HIGH 到1.8V 之後0V,必須PULL DOWN 1K/6

H/W
RESET



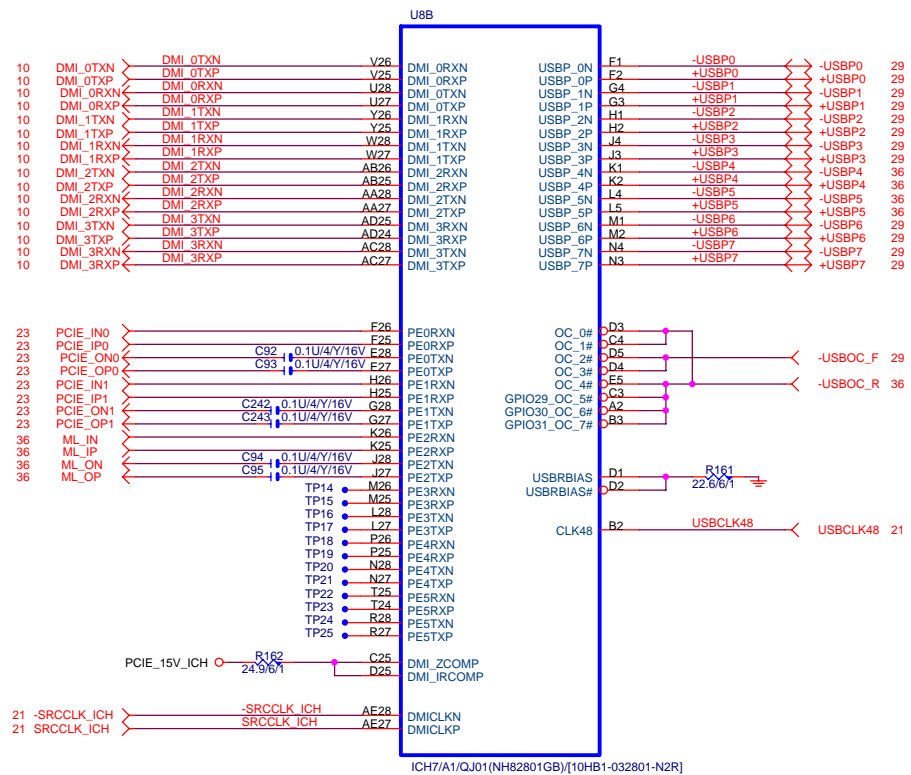
SB_HEATSIN



PCI_BT2: OPEN FWH

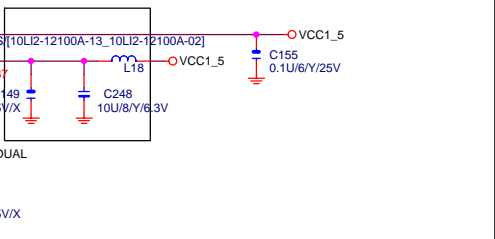
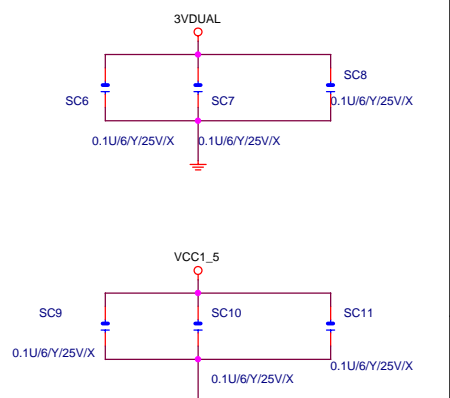
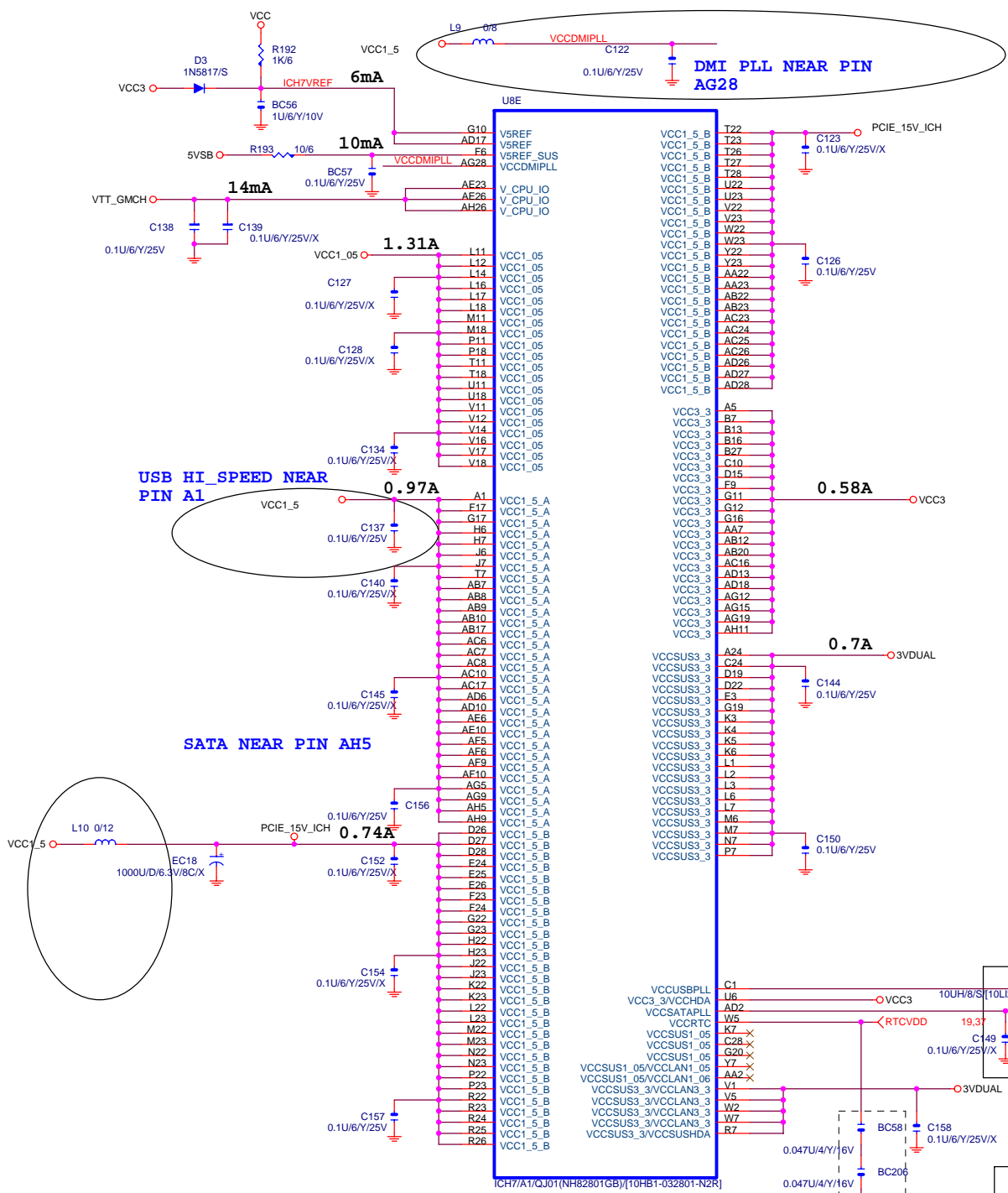
CLOSE SPI

10HB1-032801-M1 REV:NON




U8F		
A4	VSS1	R14
A23	VSS2	R15
B1	VSS3	R16
B8	VSS4	R17
B11	VSS5	R18
B14	VSS6	T6
B17	VSS7	T12
B20	VSS107	T13
B26	VSS108	T14
B28	VSS9	T15
C2	VSS10	T16
C6	VSS11	T17
D10	VSS112	U4
D13	VSS113	U12
D18	VSS114	U13
D21	VSS115	U14
D24	VSS116	U16
E1	VSS117	U17
E2	VSS118	U24
E8	VSS119	U25
F3	VSS120	U26
F4	VSS121	U2
F5	VSS122	V2
F12	VSS123	V13
F27	VSS124	V15
F28	VSS125	V24
G1	VSS126	V27
G2	VSS127	V28
G5	VSS128	W6
G6	VSS129	W24
G9	VSS130	W25
G14	VSS131	W26
G18	VSS132	Y3
G21	VSS133	Y24
G24	VSS134	Y27
G25	VSS135	Y28
G26	VSS136	AA1
H3	VSS137	AA24
H4	VSS138	AA25
H5	VSS139	AA26
H24	VSS140	AB4
H27	VSS141	AB8
H28	VSS142	AB11
J1	VSS143	AB14
J2	VSS144	AB16
J5	VSS145	AB19
J24	VSS146	AB21
J25	VSS147	AB24
J26	VSS148	AB27
K24	VSS149	AB28
K27	VSS150	AC2
K28	VSS151	AC5
L13	VSS152	AC9
L15	VSS153	AC11
L24	VSS154	AD1
L25	VSS155	AD3
L26	VSS156	AD4
M3	VSS157	AD7
M4	VSS158	AD11
M5	VSS159	AD15
M12	VSS160	AD19
M13	VSS161	AD23
M14	VSS162	AE2
M15	VSS163	AE4
M16	VSS164	AE8
M17	VSS165	AE11
M24	VSS166	AE13
M27	VSS167	AE18
M28	VSS168	AE21
N1	VSS169	AE24
N2	VSS170	AE25
N5	VSS171	AF2
N6	VSS172	AF4
N11	VSS173	AF8
N12	VSS174	AF11
N13	VSS175	AF27
N14	VSS176	AF28
N15	VSS177	AG1
N16	VSS178	AG3
N17	VSS179	AG7
N18	VSS180	AG14
N24	VSS181	AG17
N25	VSS182	AG20
N26	VSS183	AG25
P3	VSS184	AH1
P4	VSS185	AH3
P12	VSS186	AH7
P13	VSS187	AH12
P14	VSS188	AH23
P15	VSS189	AH27
P16	VSS190	C27
P17	VSS191	E4
P24	VSS192	AG11
P27	VSS193	
P28	VSS194	
R1		
R11		
R12		
R13		

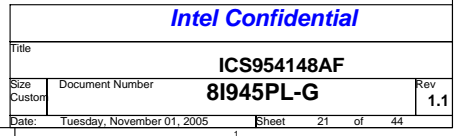
ICH7/A1/QJ01(NH82801GB)[10HB1-032801-N2R]



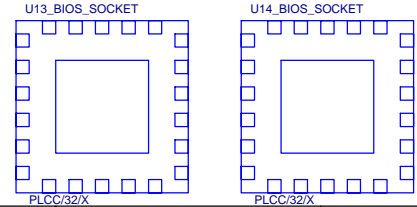
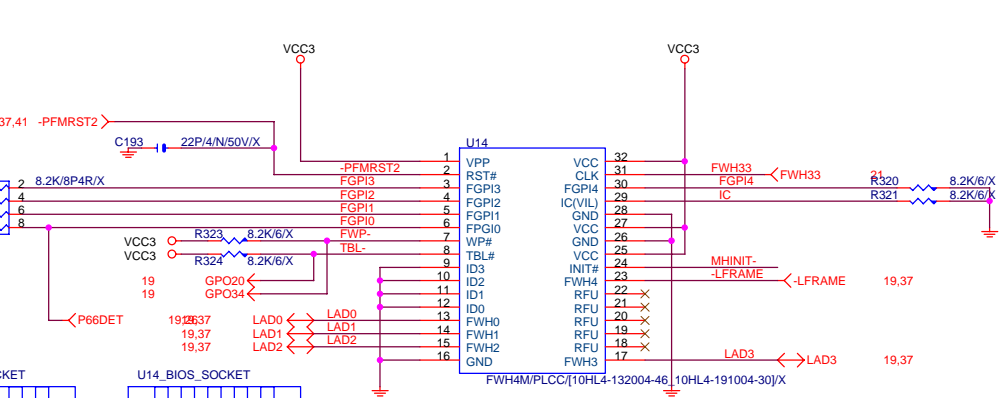
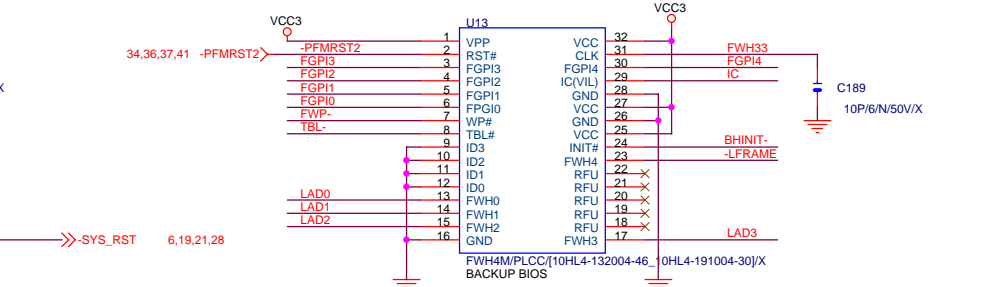
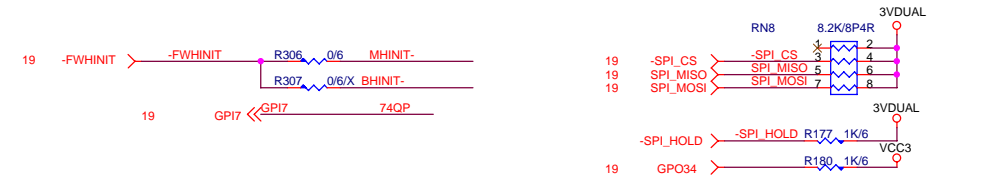
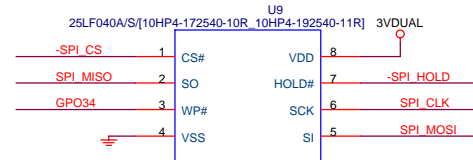
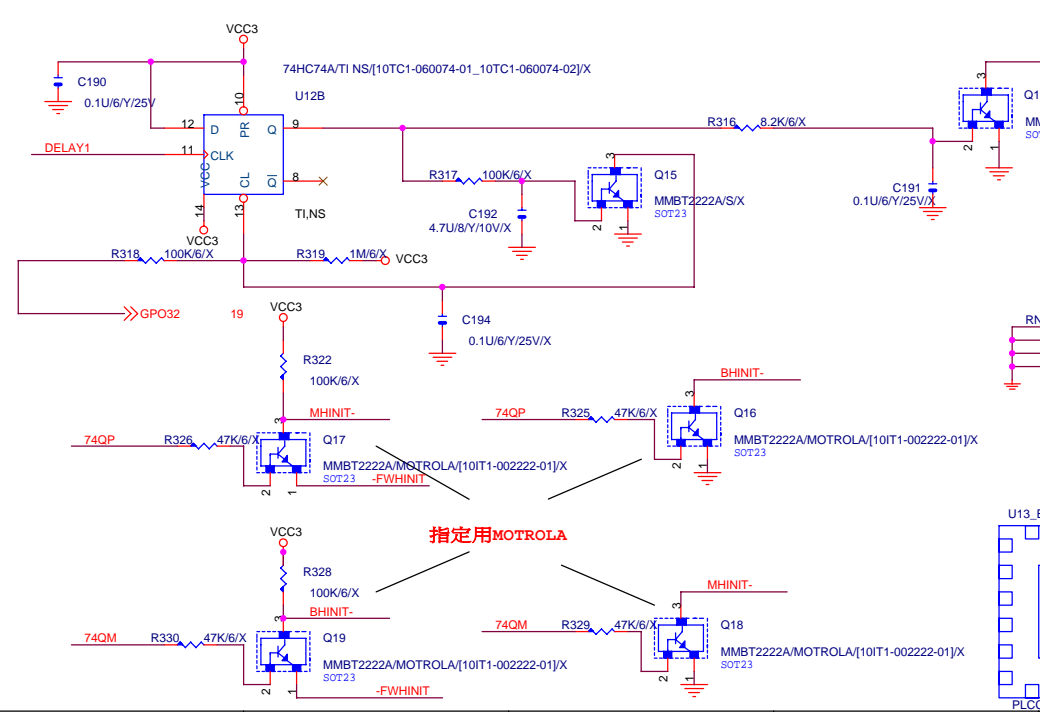
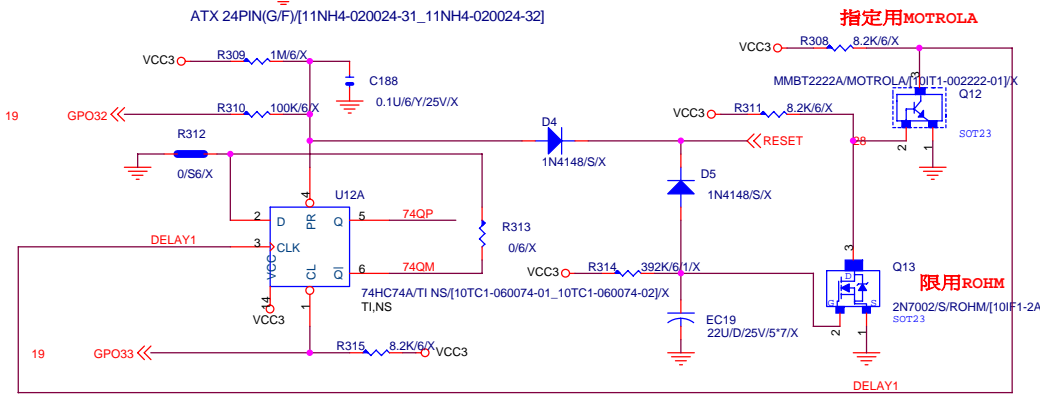
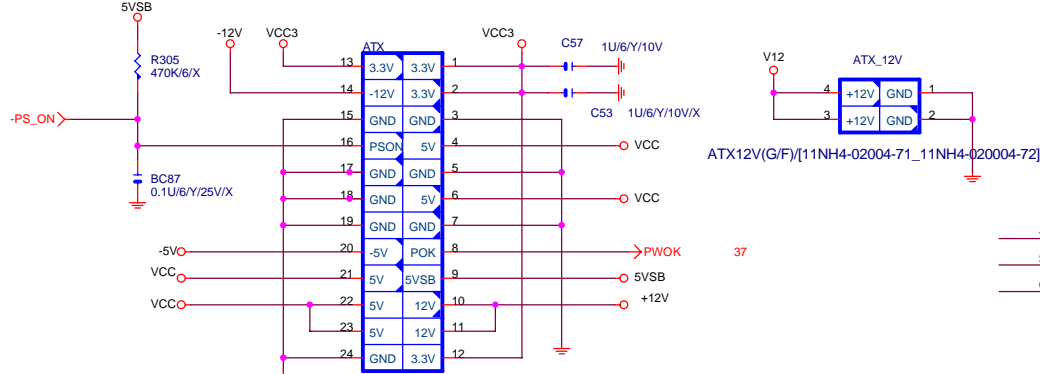
Intel Confidential		
Title ICH6-PWR & GND		
Size B	Document Number 8I945PL-G	Rev 1.1
Date: Tuesday, November 01, 2005	Sheet 20	of 44



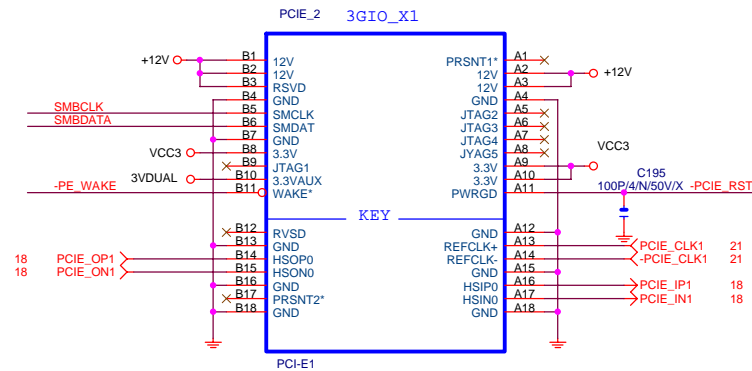
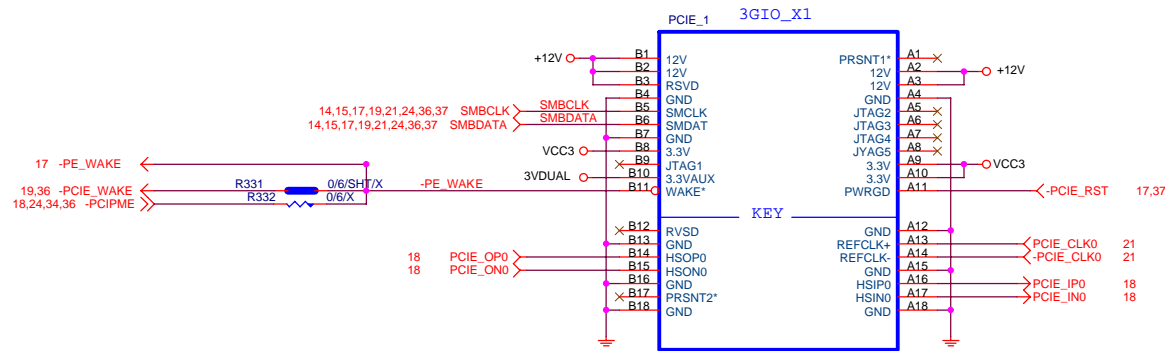
A circuit diagram showing a resistor labeled R194 with a value of 8.2K/6. The resistor is connected to a ground symbol.

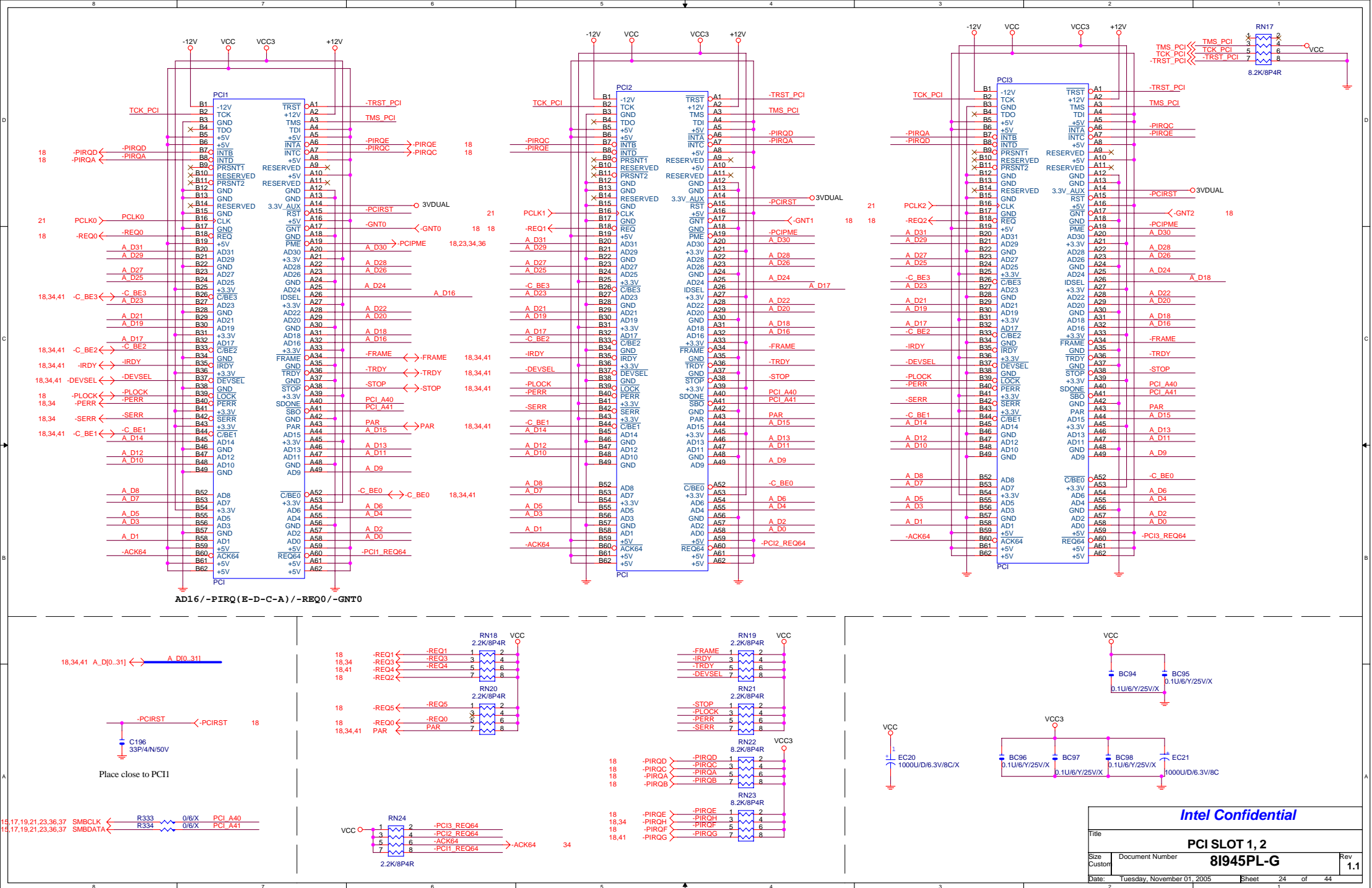


ATX POWER CONNECTOR

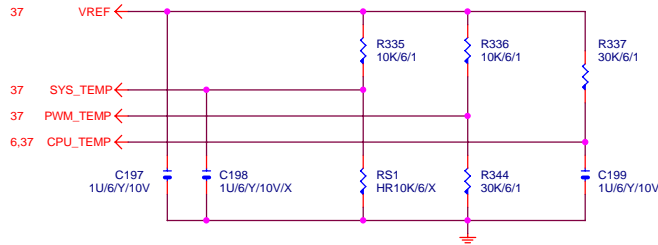


GIGABYTE			
Title			
ATX POWER CONNECTOR,DUAL BIOS			
Size	Document Number	81945PL-G	
B		Rev	
		1.1	
Date:	Tuesday, November 01, 2005	Sheet	22 of 44

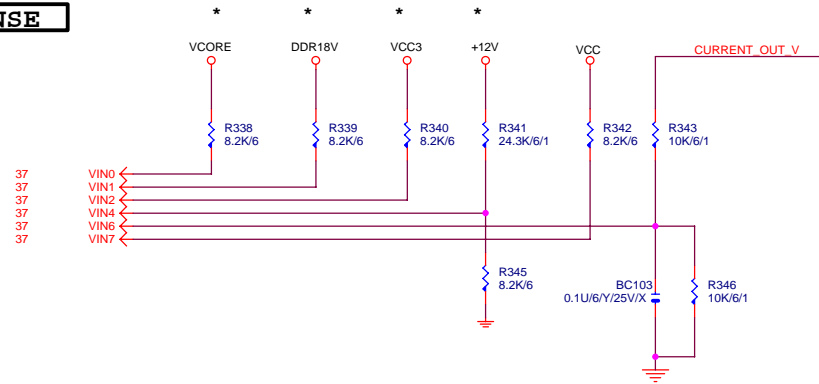




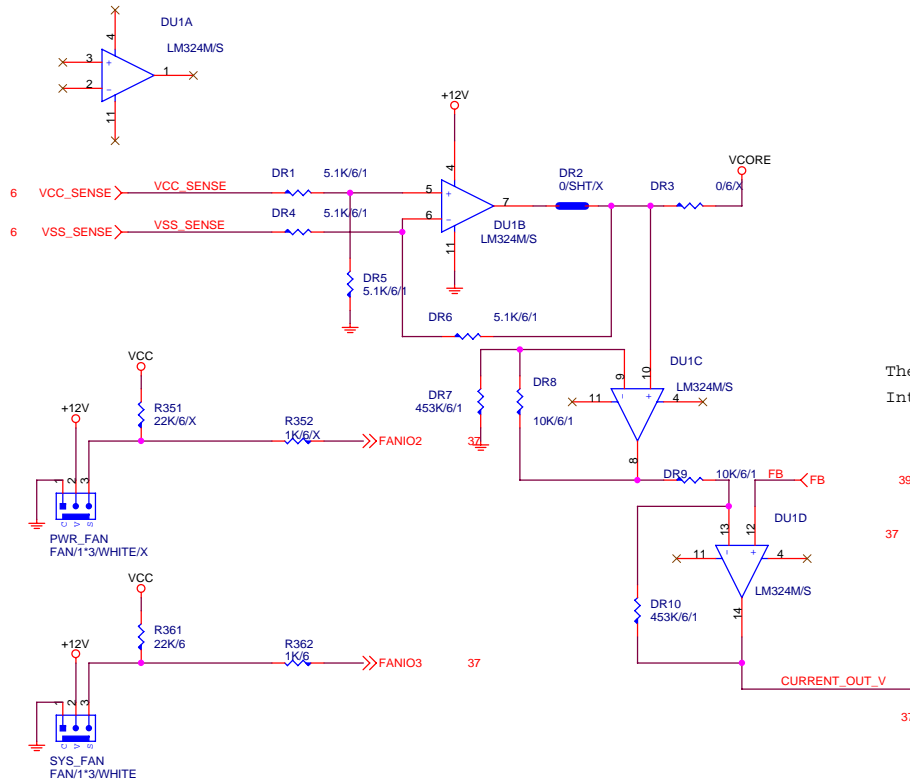
TEMP. SENSE



VOLTAGE SENSE



DUAL POWER



CPU/SYS FAN

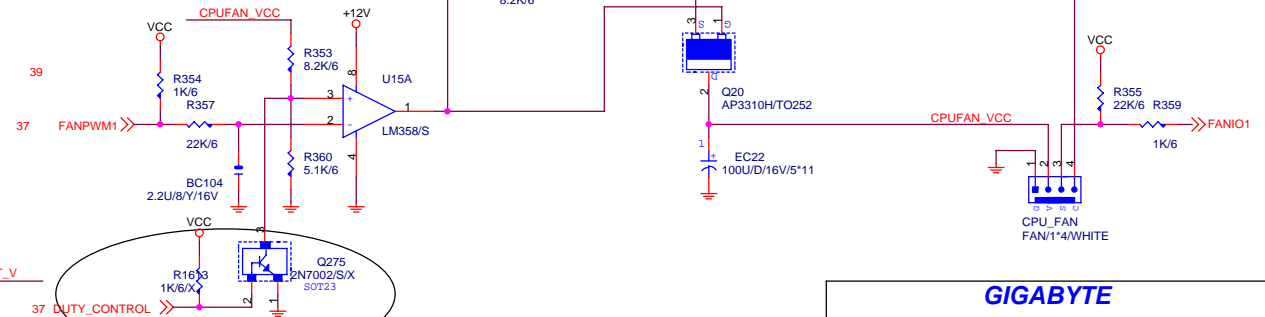
If use PBSS5240 lpcs : (non airflow)

CPUFAN_VCC=12V: Temp=40 deg
 CPUFAN_VCC=11V: Temp=82 deg
 CPUFAN_VCC=10V: Temp=70 deg
 CPUFAN_VCC= 9V: Temp=110 deg
 CPUFAN_VCC= 8V: Temp>200 deg

If use PBSS5240 lpcs : (with airflow)

CPUFAN_VCC=12V: Temp=33 deg
 CPUFAN_VCC=11V: Temp=62 deg
 CPUFAN_VCC=10V: Temp=86 deg
 CPUFAN_VCC= 9V: Temp=117 deg
 CPUFAN_VCC= 8V: Temp>122 deg

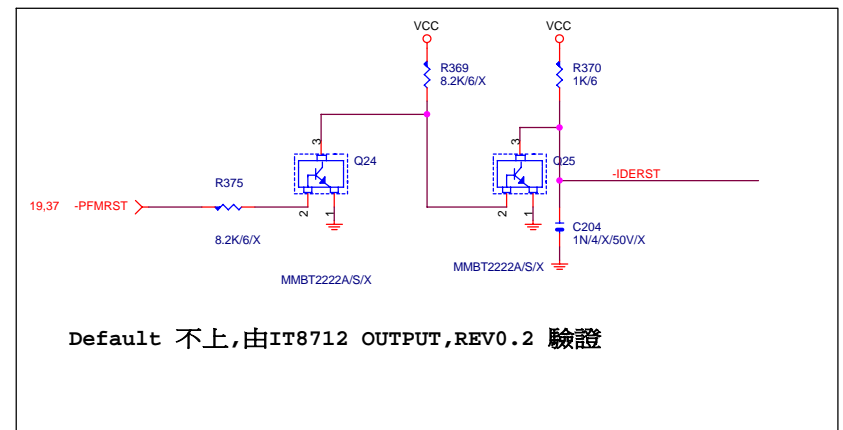
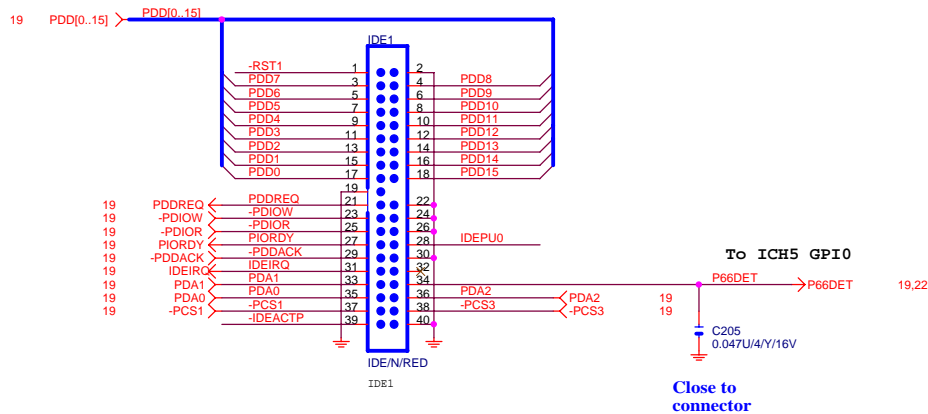
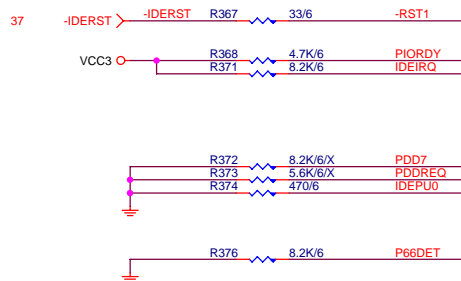
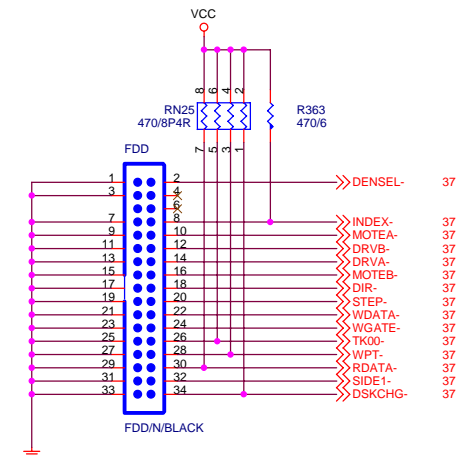
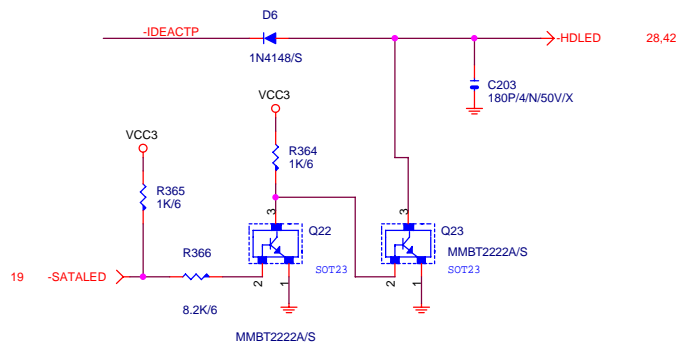
ThermalTake FAN Power Consumption: 0.82A
 Intel FAN Power Consumption Spec: 1.1A



default is high
 gpiox pin 可以3.3v or 5v
 if 3pin fan 則開機後將 program is low

GIGABYTE

Title		
HWM/FAN/C/BIOS		
Size	Document Number	Rev
Custom	8I945PL-G	1.1
Date:	Tuesday, November 01, 2005	Sheet 25 of 44

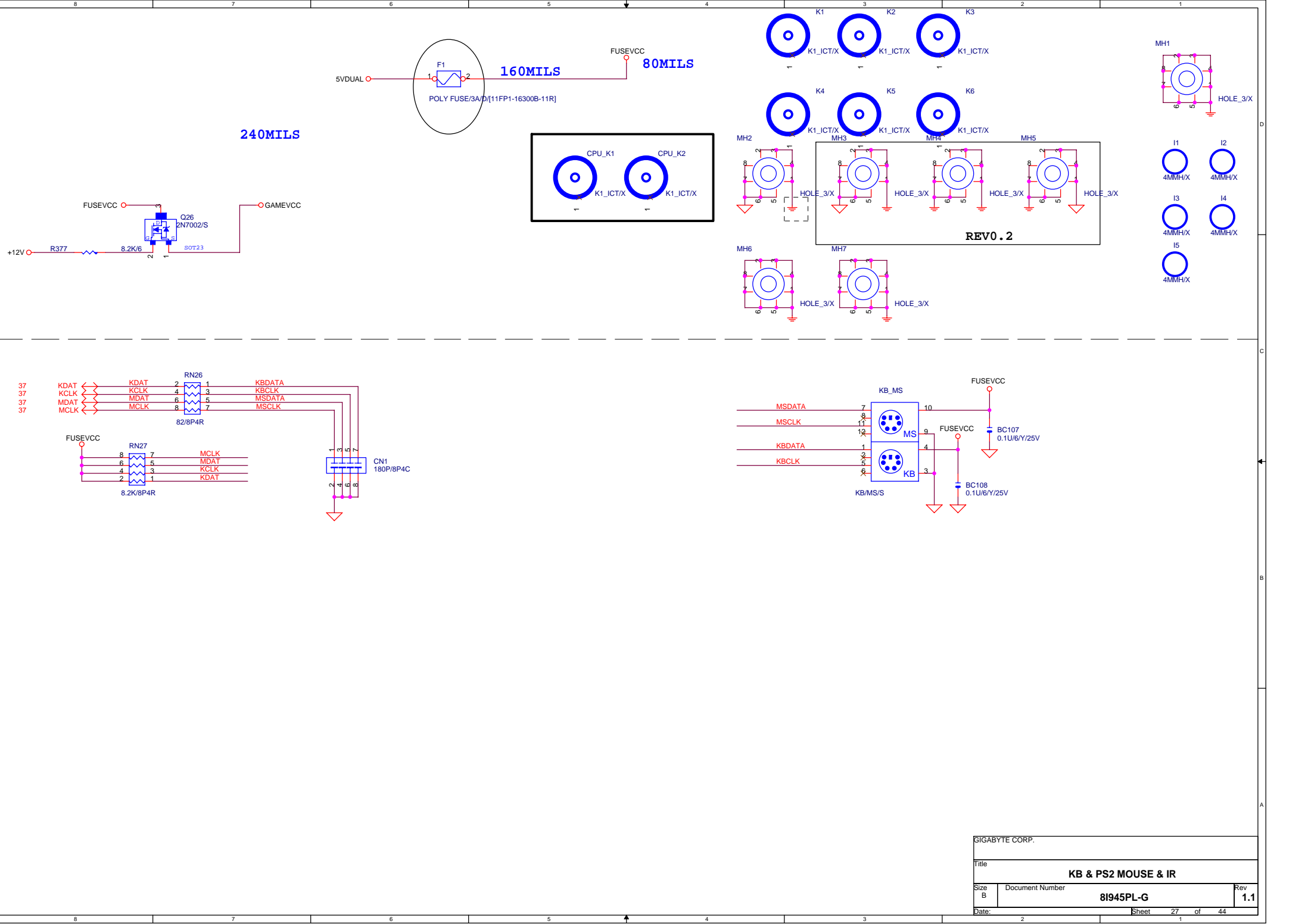


PRIMARY IDE CONNECTOR

Intel Confidential

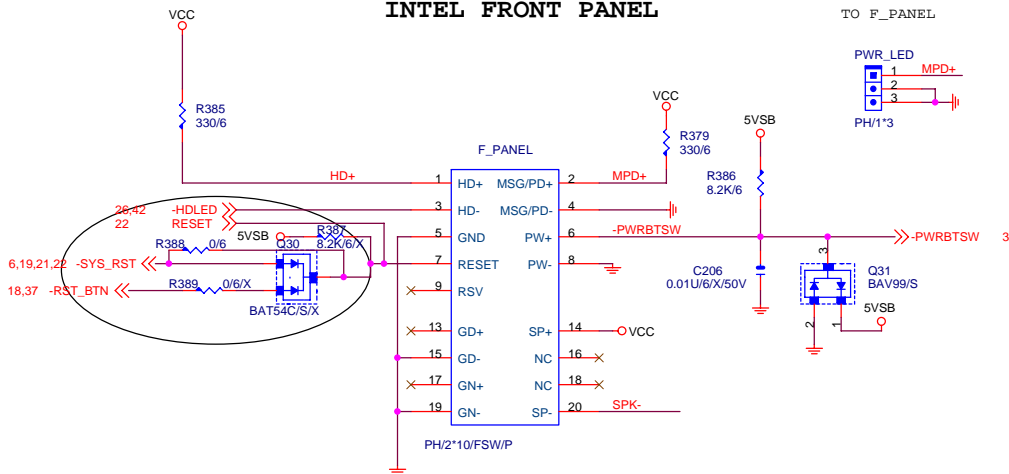
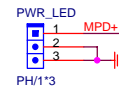
Title			IDE	
Size			Document Number	
B			81945PL-G	
Date:			Tuesday, November 01, 2005	Sheet 26 of 44
			2	1

Rev 1.1

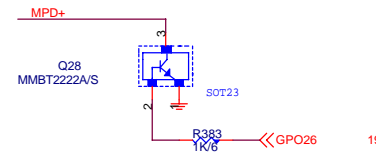
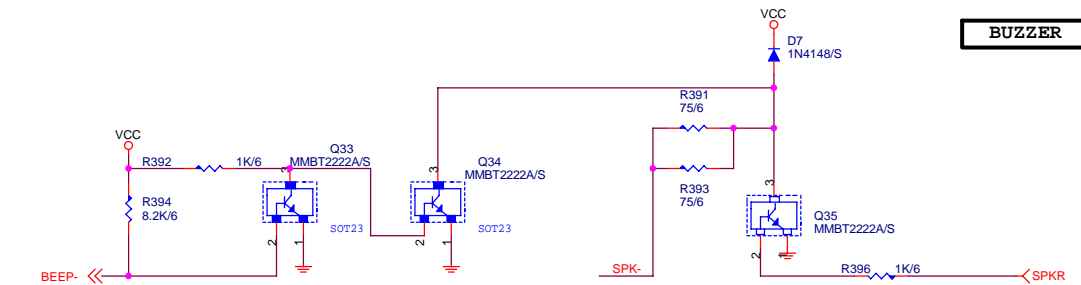


INTEL FRONT PANEL

3 PIN POWER LED
LAYOUT PLACE CLOSE
TO F_PANEL



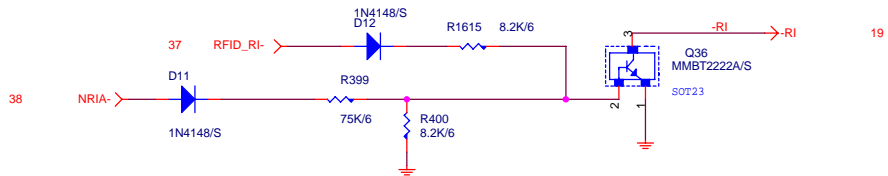
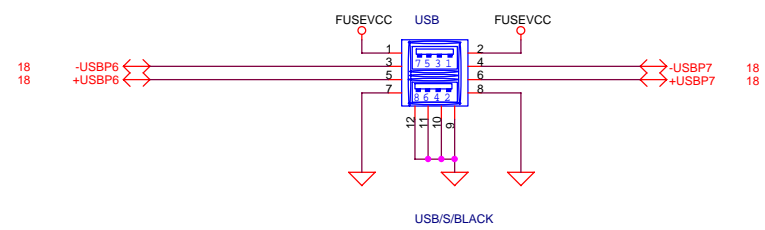
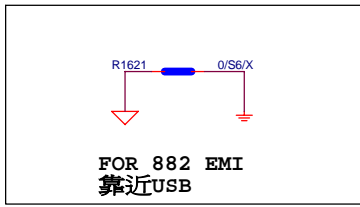
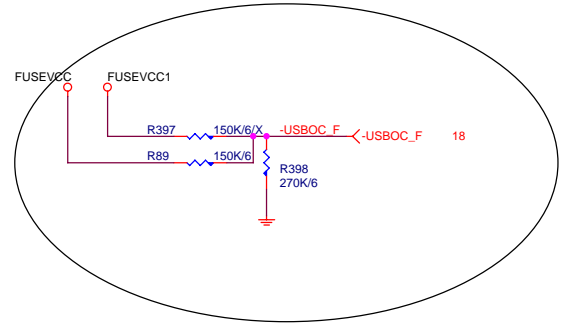
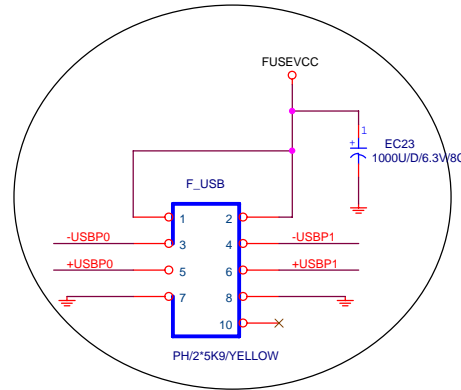
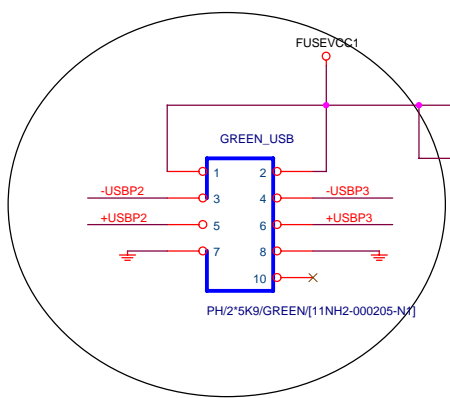
BUZZER



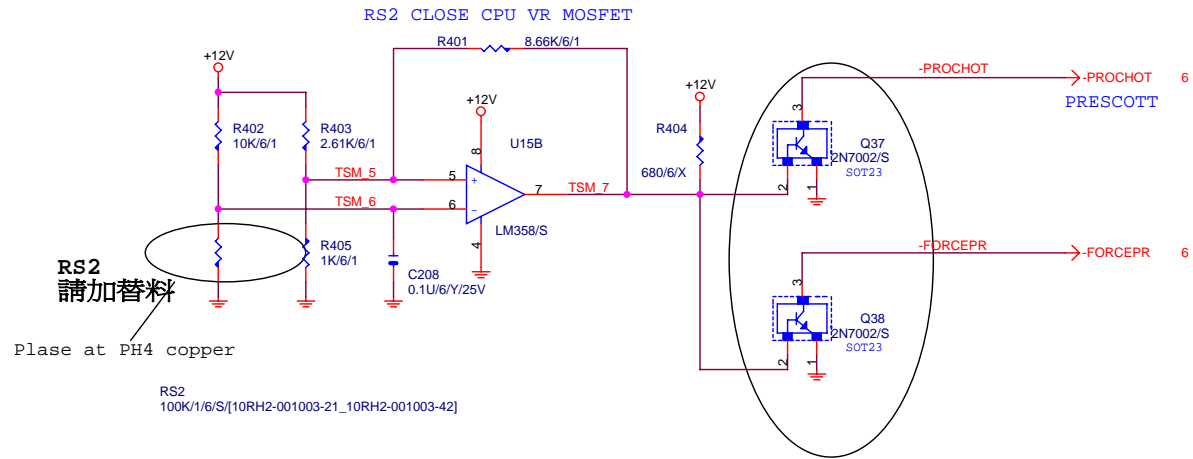
Intel Confidential

Title			
FRONT PANEL			
Size	Document Number	Rev	
Custom	81945PL-G	1.1	
Date:	Tuesday, November 01, 2005	Sheet	28 of 44

FRONT USB



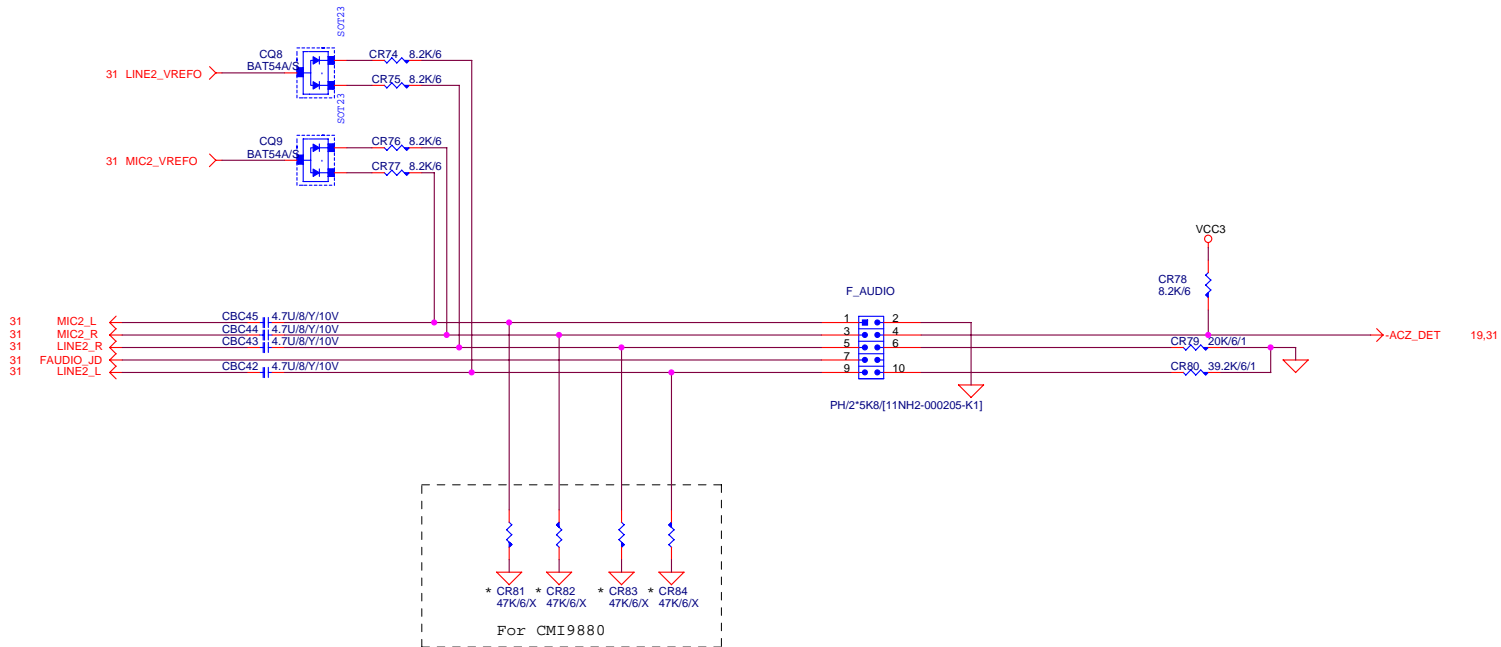
asserted at 131 degree
deasserted at 116 degree



Intel Confidential

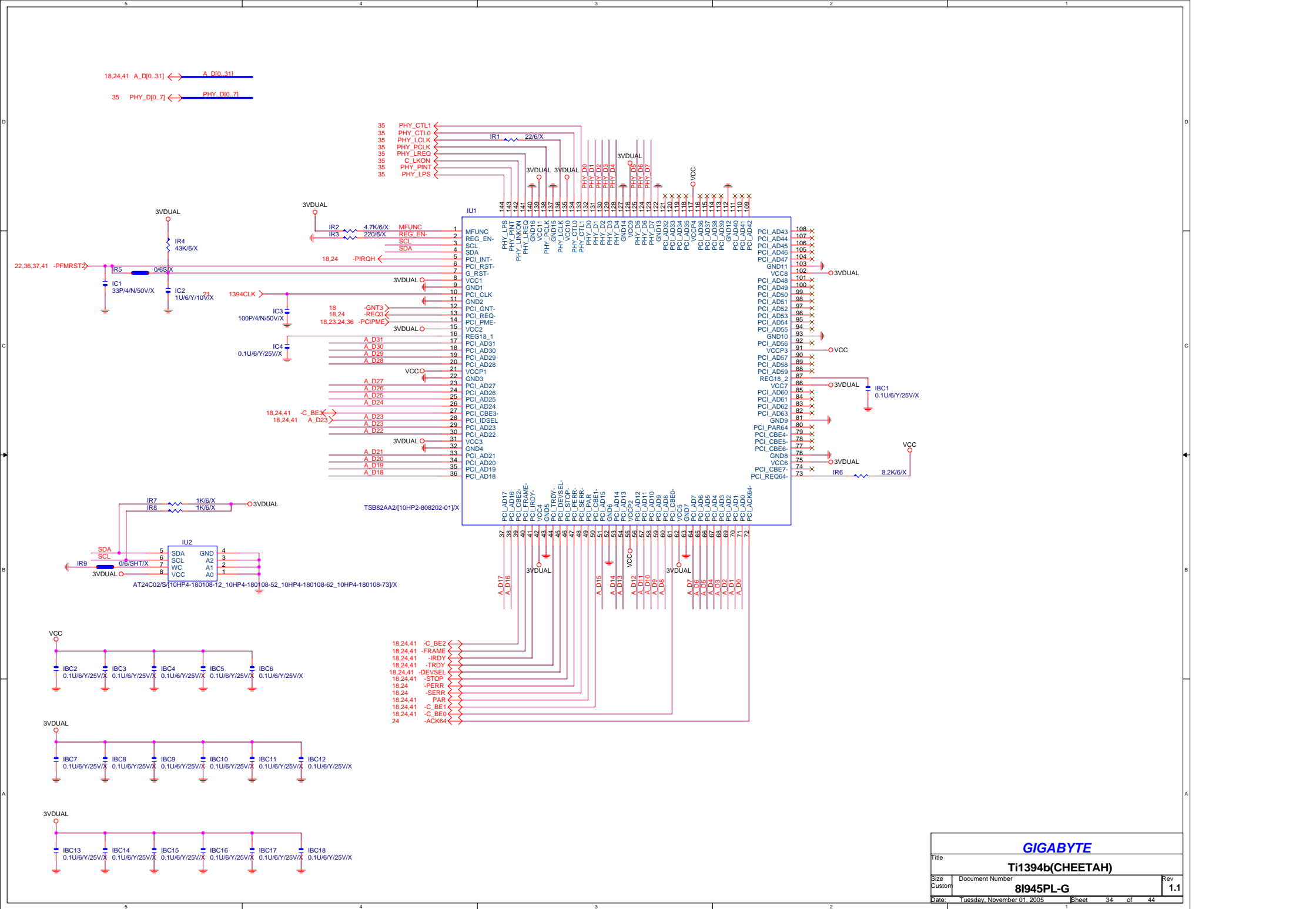
Title			
FAN CONTROL			
Size B	Document Number		Rev
	8I945PL-G		1.1
Date:	Tuesday, November 01, 2005		Sheet 30 of 44

Azalia Port F
Azalia Port E

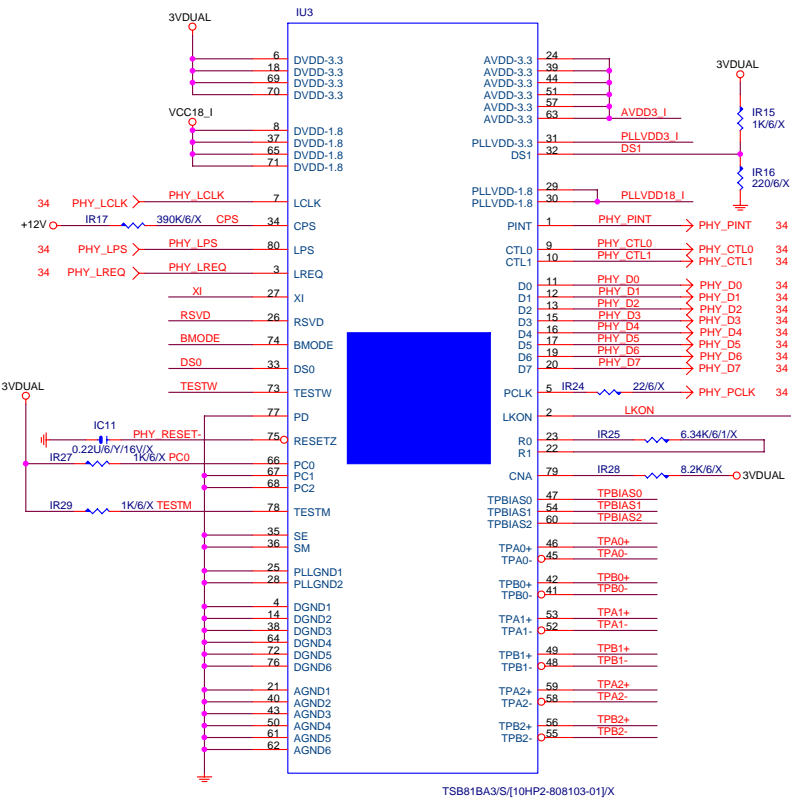


Intel Confidential

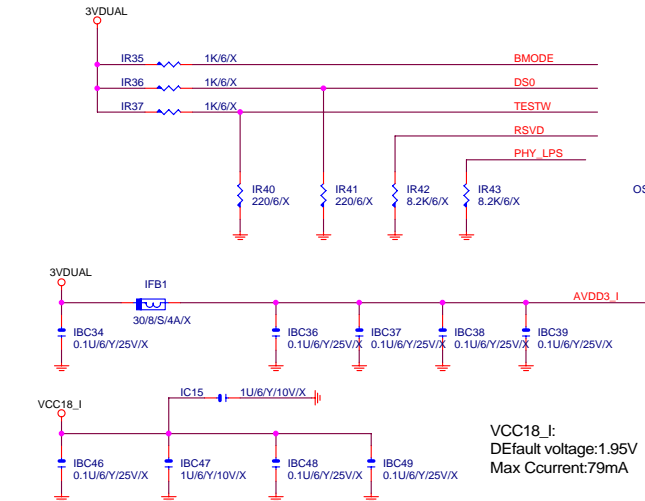
Title			
FRONT AUDIO CONNECTOR			
Size	Document Number	Rev	
Custom	8I945PL-G	1.1	
Date:	Tuesday, November 01, 2005	Sheet	33 of 44



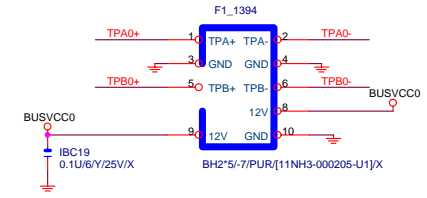
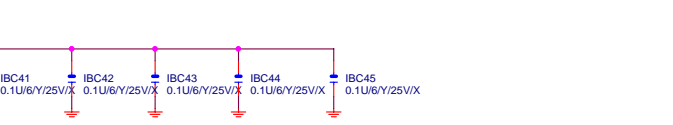
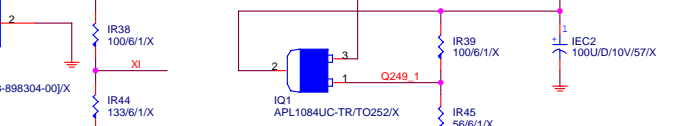
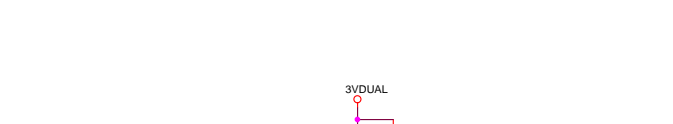
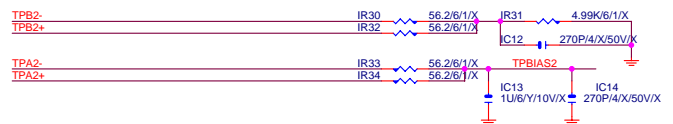
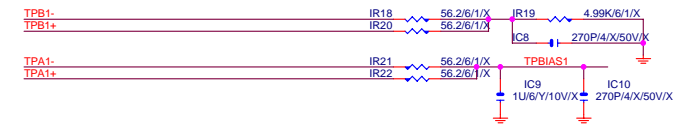
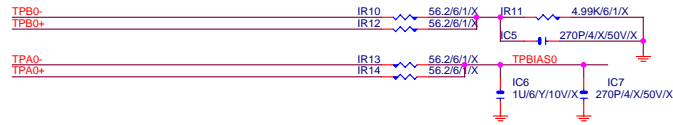
Width & Space --> 20:7.5:7.5:7.5:20



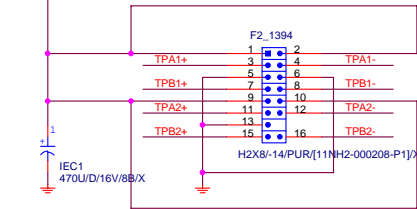
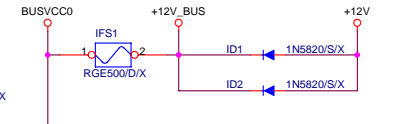
TSB81BA3/S[10HP2-808103-01]X



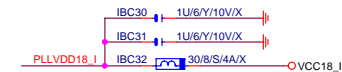
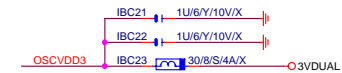
VCC18_I:
Default voltage:1.95V
Max Ccurrent:79mA



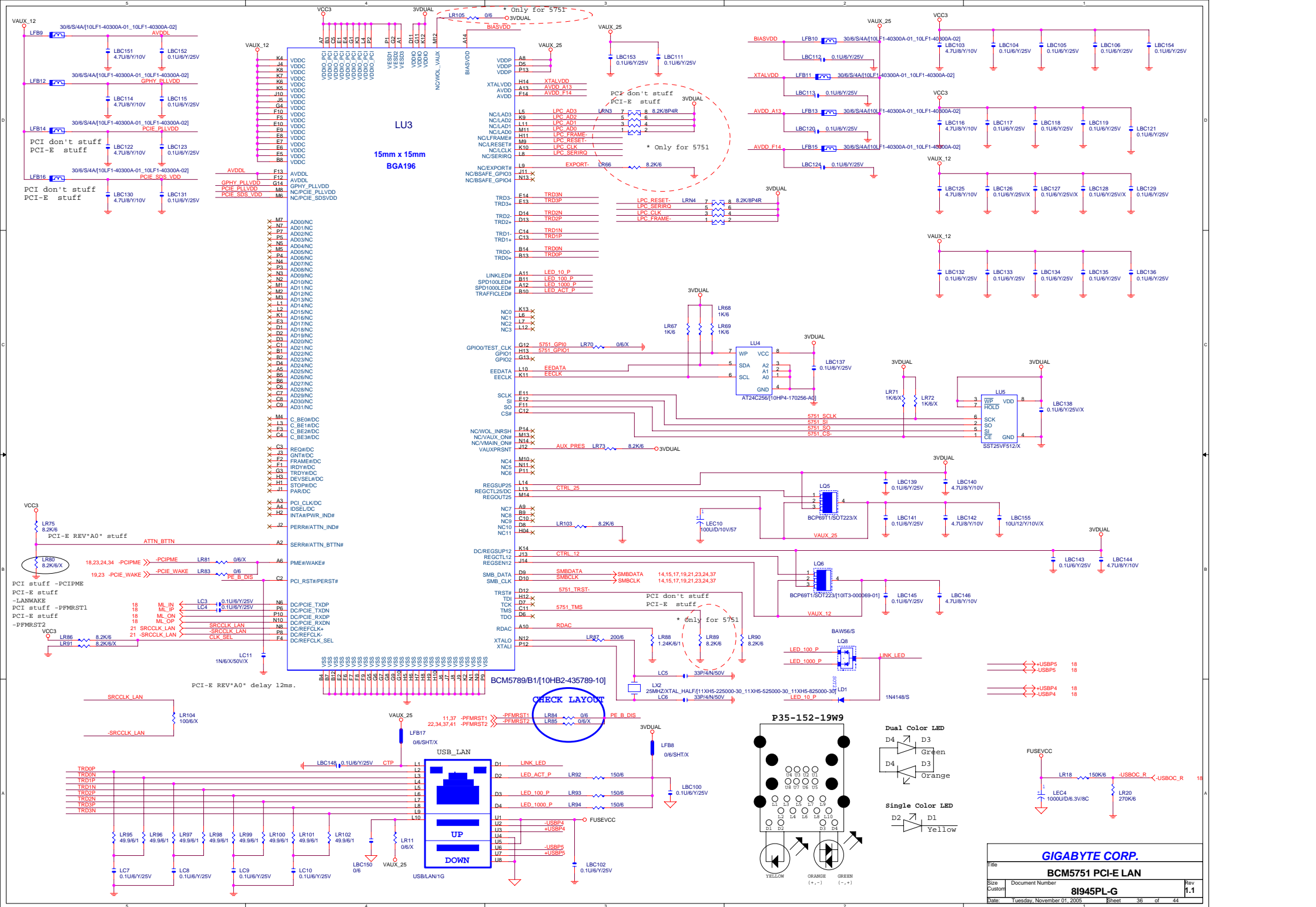
Width & Space --> 20:5:6:5:20

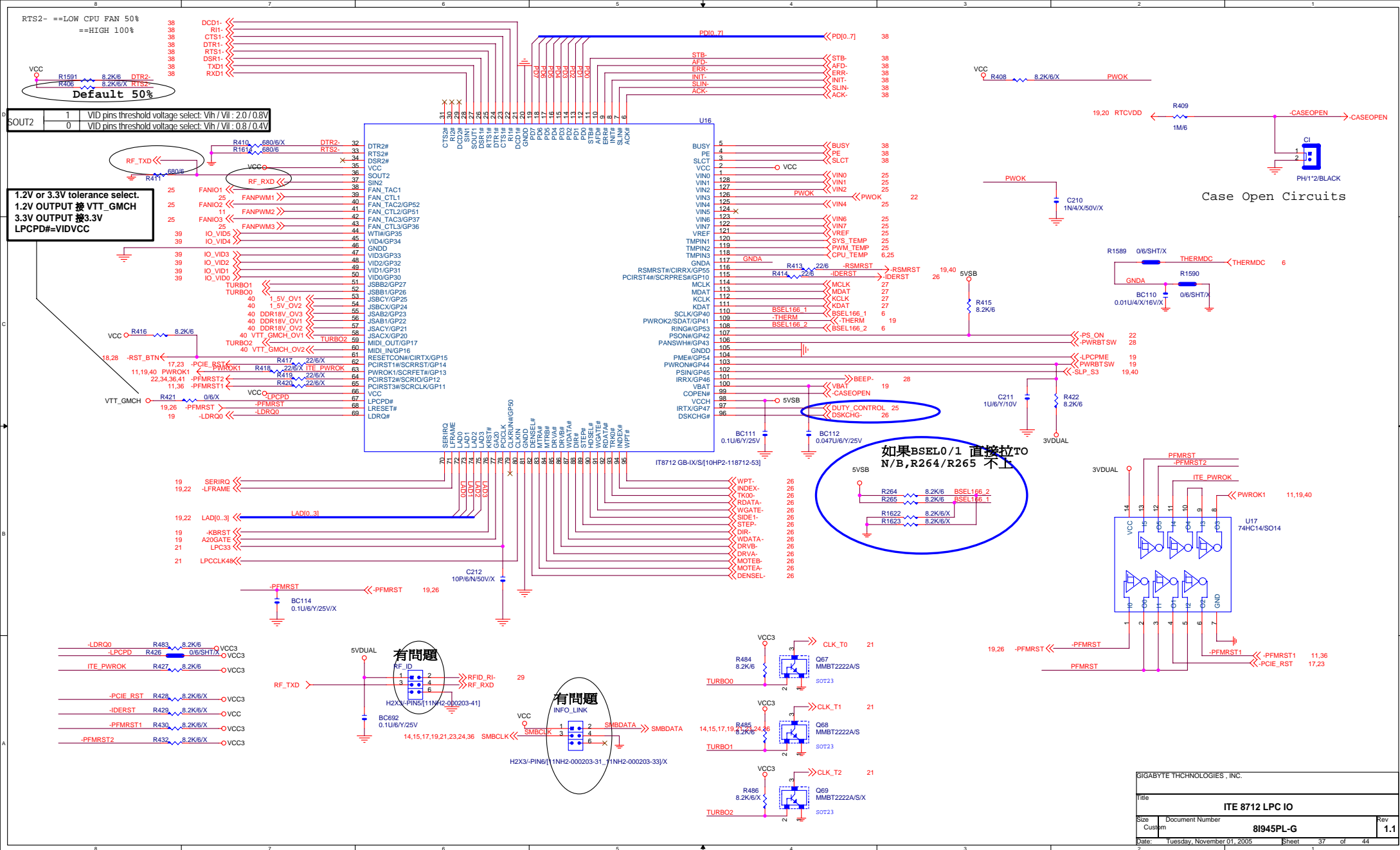


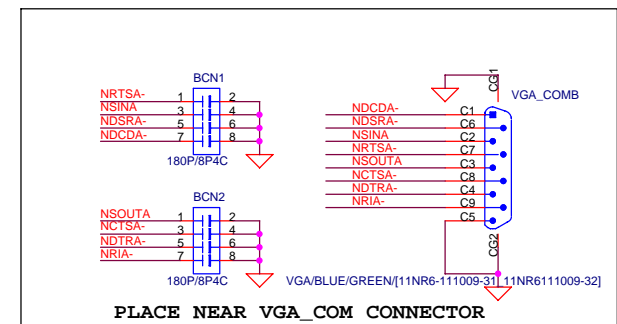
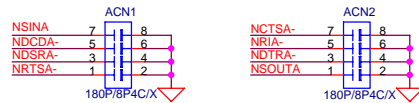
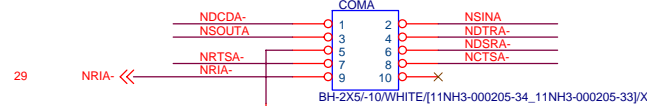
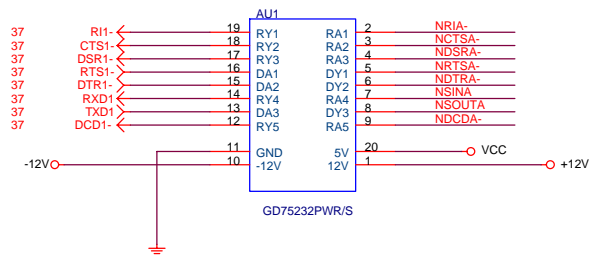
Width & Space --> 20:5:6:5:20



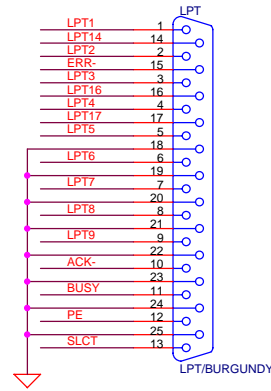
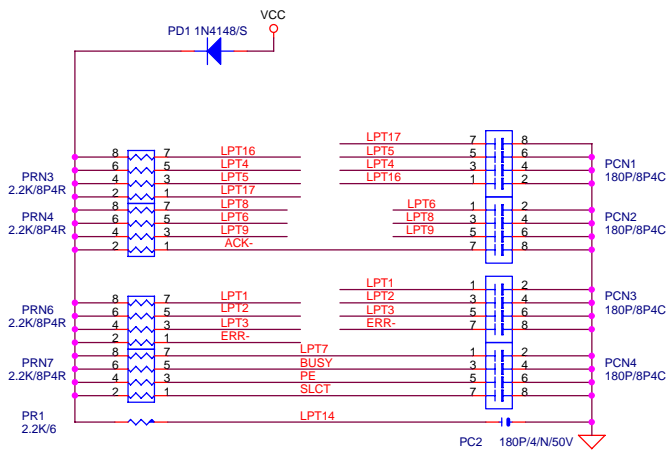
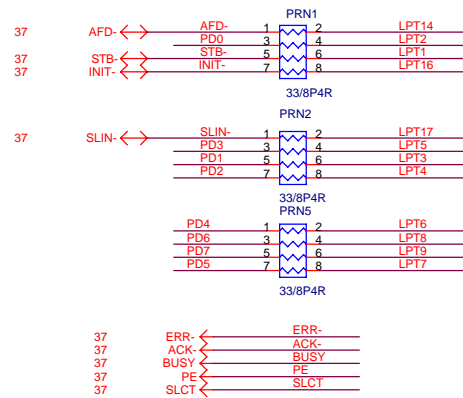
GIGABYTE			
Ti1394B/TSB81BA3			
Size	Document Number	Rev	
Custom	81945PL-G	1.1	
Date	Tuesday, November 01, 2005	Sheet	35 of 44

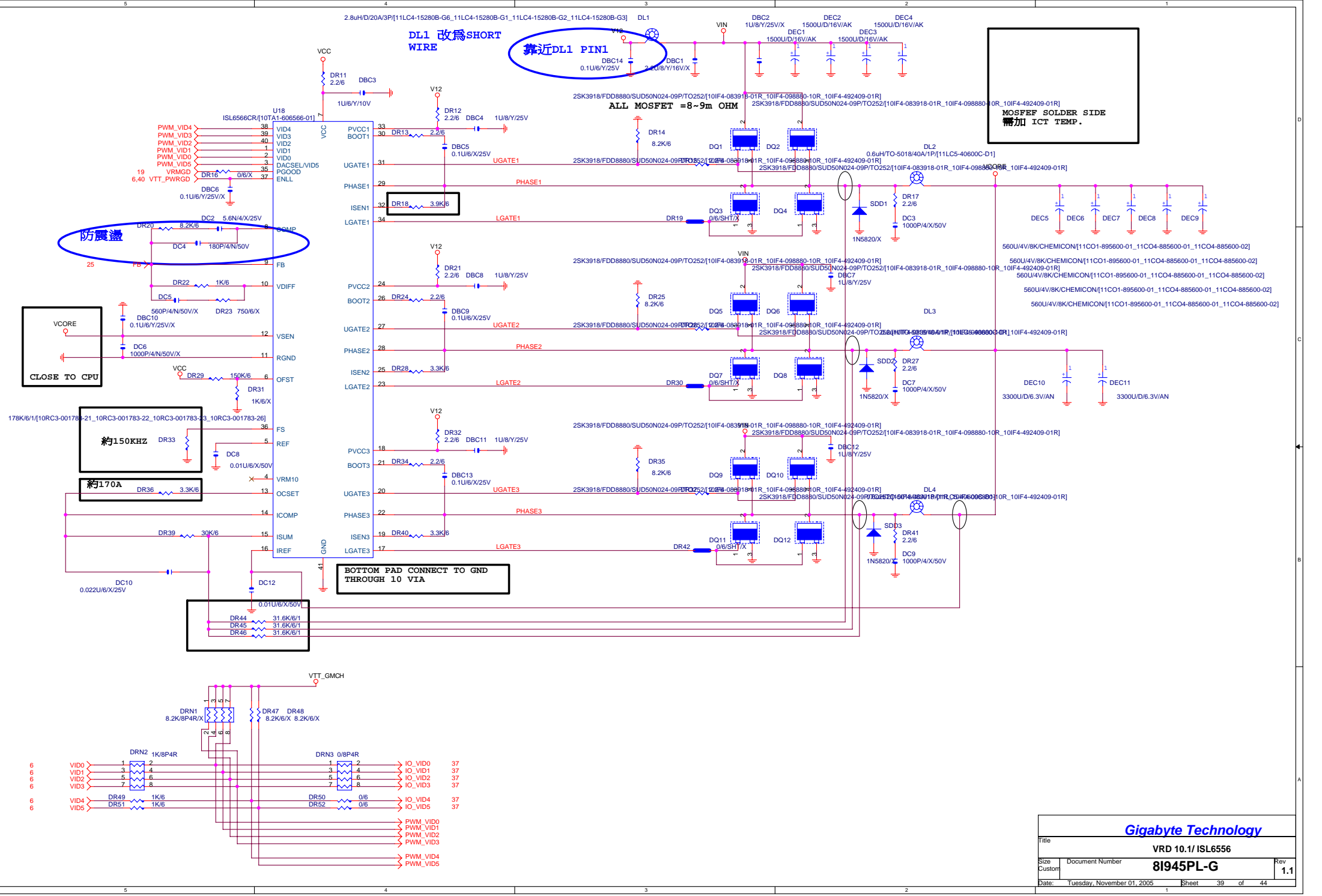




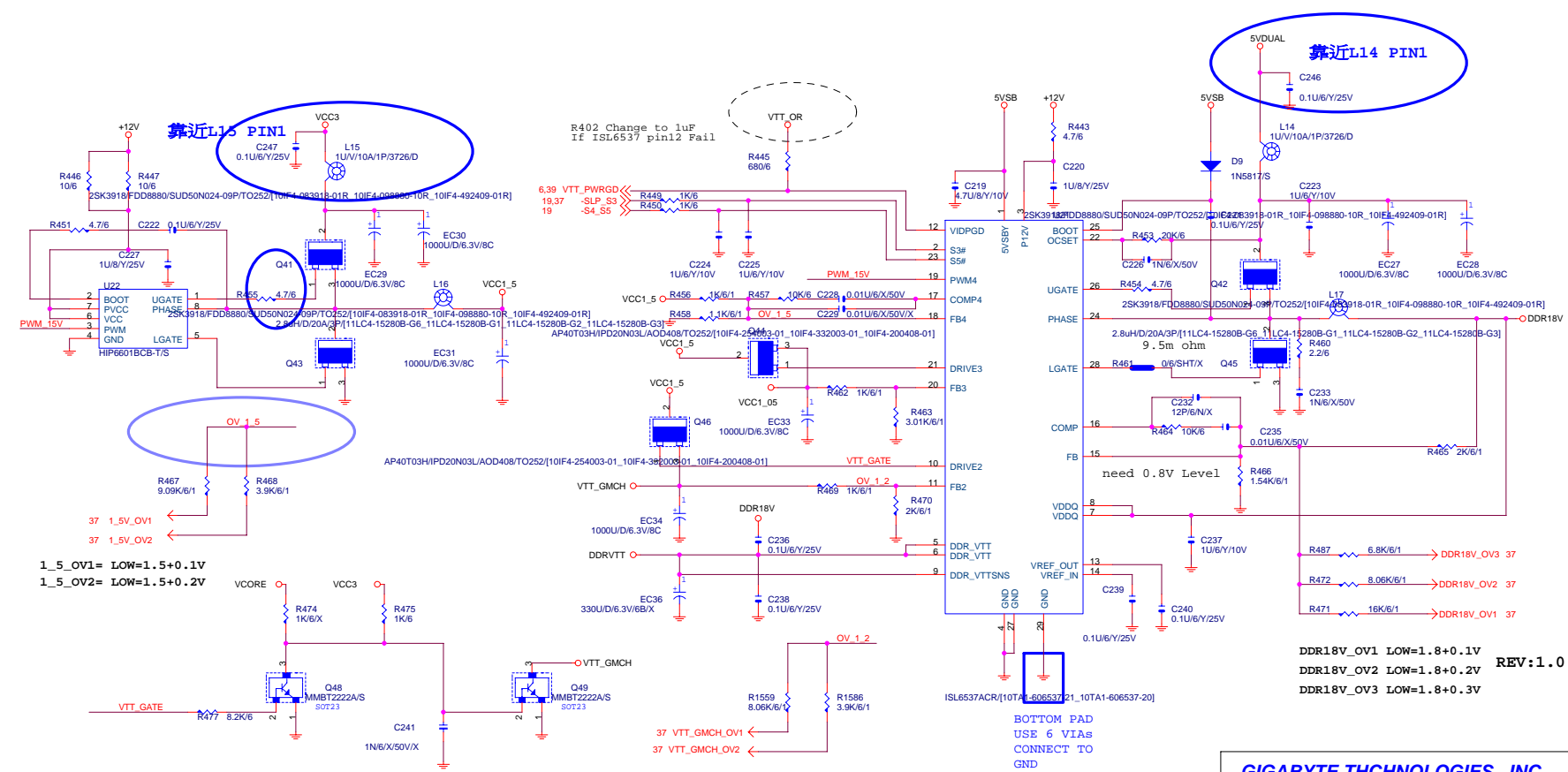
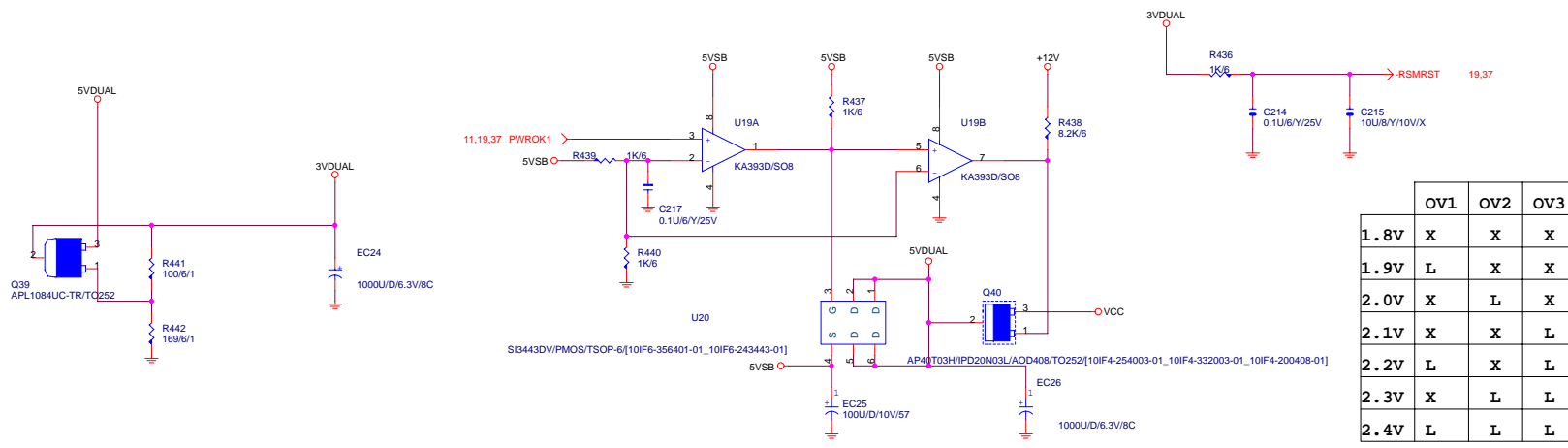


37 PD[0..7] ↔ PD[0..7]



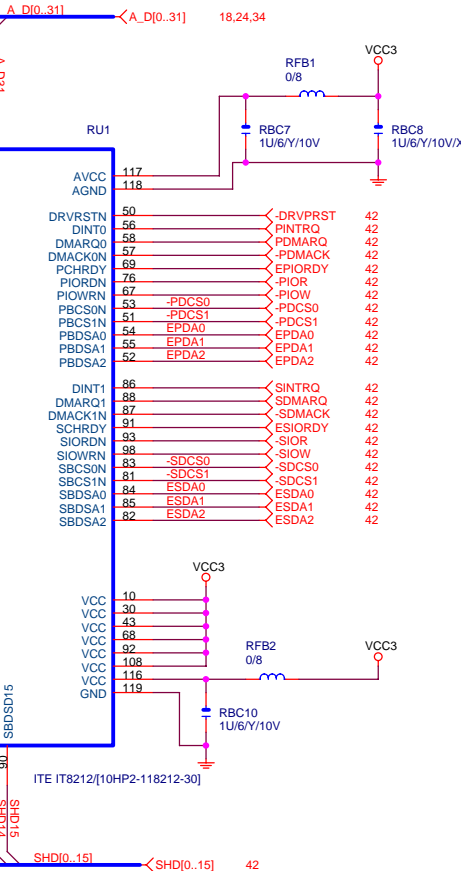
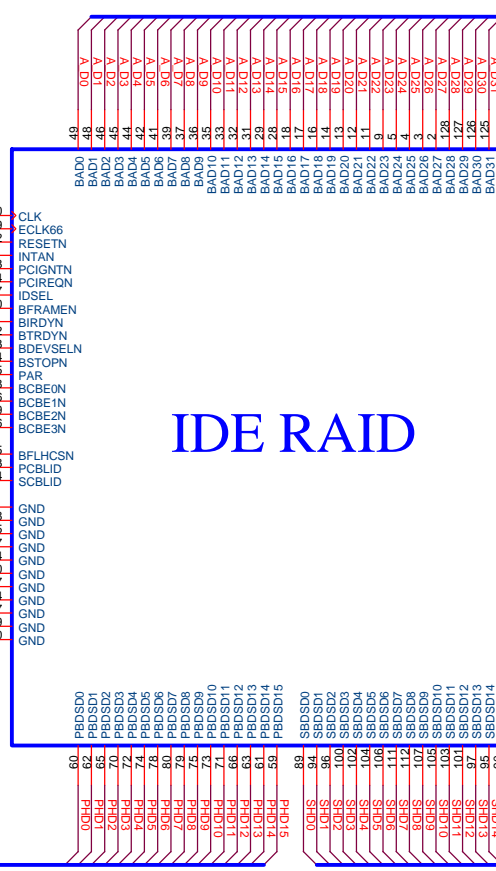
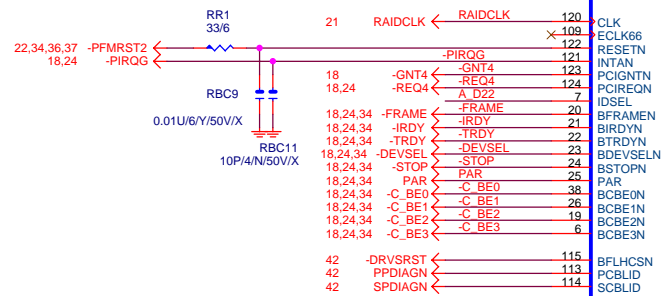
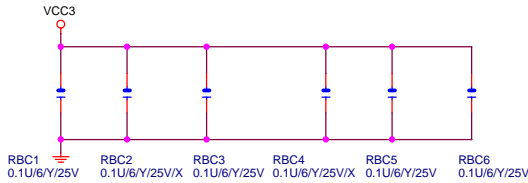


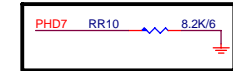
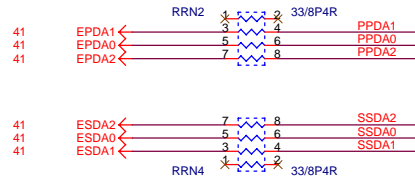
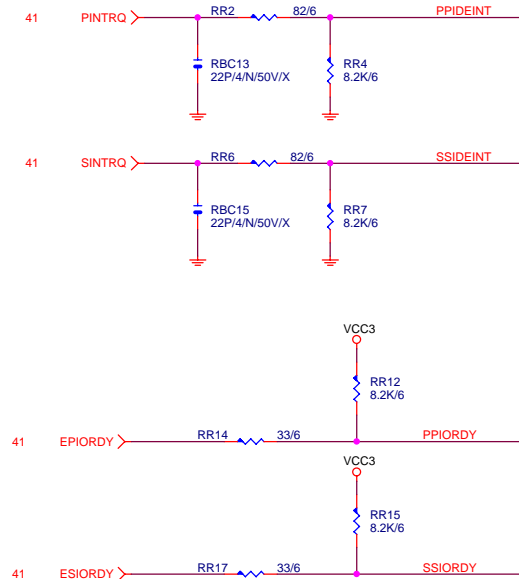
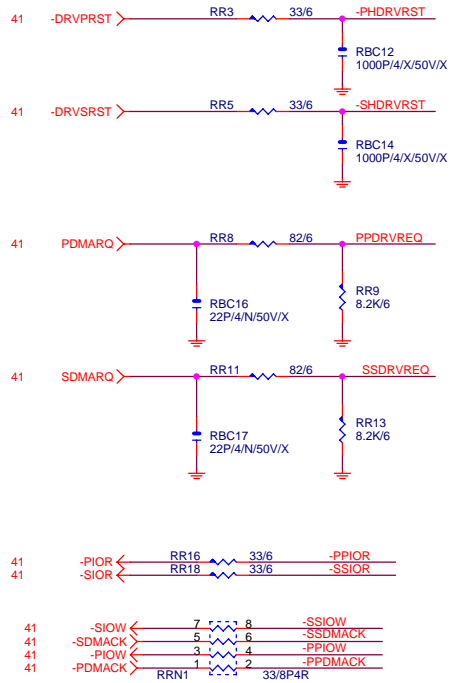
Gigabyte Technology			
Title		VRD 10.1/ ISL6556	
Size	Document Number	81945PL-G	
Custom			Rev 1.1
Date: Tuesday, November 01, 2005		Sheet 39 of 44	



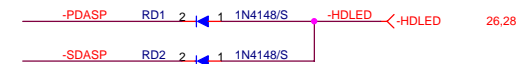
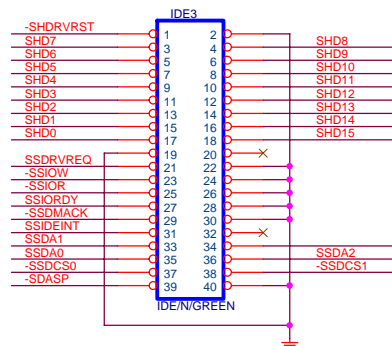
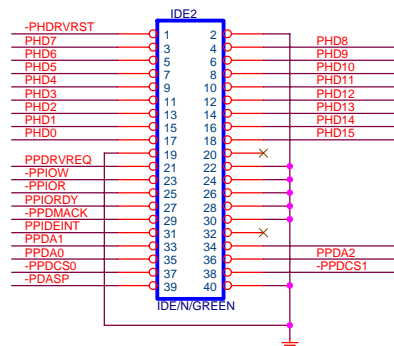
VTT_GMCH_OV1= LOW=1.2+0.1V
VTT_GMCH_OV2= LOW=1.2+0.2V

ALL INPUT PIN MUST HAVE 0.1 CAPACITOR





41 PHD[0..15] < PHD[0..15]
41 SHD[0..15] < SHD[0..15]



GPI PIN

Pin Name	Pin Type	Power Well			GPIO Application
GPIO[0]	I/O	VCC3	GPI/BM_BUSY#	(NA)	(NA)
GPIO[1]	I/O	VCC	-REQ[5]	(P.U VCC)	-REQ[5]
GPIO[5:2]	I/OD	VCC	-PIRQ[H:E]	(P.U VCC)	-PIRQ[H:E]
GPIO[6]	I/O	VCC3	GPI	(NA)	M_ID0 FOR MEDIA
GPIO[7]	I/O	VCC3	GPI	(NA)	DUALBIOS_INPUT
GPIO[8]	I/O	3VDUAL	GPI	(P.U 3VDUAL)	-SKTOCC
GPIO[9]	I/O	3VDUAL	GPI	(NA)	P66DET
GPIO[10]	I/O	3VDUAL	GPI	(NA)	M_ID1 FOR MB_ID
GPIO[11]	I/O	3VDUAL	-SMBALERT	(P.U 3VDUAL)	-SMBALRT
GPIO[12]	I/O	3VDUAL	GPI	(NA)	M_ID2 FOR MB_ID
GPIO[13]	I/O	3VDUAL	GPI	(P.U 3VDUAL)	-LPCPME
GPIO[14]	I/O	3VDUAL	GPI	(NA)	M_ID3 FOR MB_ID
GPIO[15]	I/O	3VDUAL	GPI	(NA)	-ACZ_DET
GPIO[16]	I/O	VCC3	GPO	P.D 20K(INT.)	HW RESET
GPIO[17]	I/O	VCC3	GPO/-GNT[5]	(NA)	GPO/-GNT[5]
GPIO[18]	I/O	VCC3	GPO/toggle	(NA)	(NA)
GPIO[19]	I/O	VCC3	SATA1GP	(P.U VCC3)	SATA1GP
GPIO[20]	I/O	VCC3	GPO	(P.U VCC3)	TBL-
GPIO[21]	I/O	VCC3	SATA0GP	(P.U VCC3)	SATA0GP
GPIO[22]	I/O	VCC3	-REQ[4]	(P.U VCC)	-REQ[4]
GPIO[23]	I/O	VCC3	LDRQ1#	(NA)	(NA)
GPIO[24]	I/O	3VDUAL	GPO/reset not cleared	(NA)	(NA)
GPIO[25]	I/O	3VDUAL	GPO	(NA)	PWD_LED
GPIO[26]	I/O	3VDUAL	EL_RSVD	(P.D)	-SPI_WP
GPIO[27]	I/O	3VDUAL	EL_STATE0	(NA)	(NA)
GPIO[28]	I/O	3VDUAL	EL_STATE1	(NA)	(NA)
GPIO[29]	I/O	3VDUAL	OC5#	(P.U VCC 分壓)	OC5#
GPIO[30]	I/O	3VDUAL	OC6#	(P.U VCC 分壓)	OC6#
GPIO[31]	I/O	3VDUAL	OC7#	(P.U VCC 分壓)	OC7#
GPIO[32]	I/O	VCC3	GPO	(NA)	DUAL_BIOS
GPIO[33]	I/O	VCC3	GPO	(NA)	DUAL_BIOS
GPIO[34]	I/O	VCC3	GPO	(P.U VCC3)	FWP-
GPIO[35]	I/O	VCC3	SATACLKREQ#	(NA)	(NA)
GPIO[36]	I	VCC3	SATA2GP	(P.U VCC3)	SATA2GP
GPIO[37]	I	VCC3	SATA3GP	(P.U VCC3)	SATA3GP

GPO PIN

<i>Pin Name</i>	<i>Pin Number</i>	<i>Power Well</i>	<i>Pin Type</i>		<i>GPIO Application</i>
<i>GPIO[38]</i>	<i>I/O</i>	<i>VCC3</i>	<i>GPI</i>	<i>(NA)</i>	<i>(NA)</i>
<i>GPIO[39]</i>	<i>I/O</i>	<i>VCC3</i>	<i>GPI</i>	<i>(NA)</i>	<i>(NA)</i>
<i>GPIO[40:47]</i>		<i>NOT IMPLEMENTED</i>		<i>NOT IMPLEMENTED</i>	
<i>GPIO[48]</i>	<i>I/O</i>	<i>VCC3</i>	<i>-GNT[4]</i>	<i>(NA)</i>	<i>-GNT[4]</i>
<i>GPIO[49]</i>	<i>I/O</i>	<i>VTT_GMCH</i>	<i>CPUPWRGD</i>	<i>(P.U VTT_OL)</i>	<i>CPUPWROK</i>
<i>PCI1</i>	<i>PCLK0</i>	<i>-PCIRST</i>	<i>-REQ0/-GNT0</i>	<i>-PIRQE</i>	<i>A_D16</i>
<i>PCI2</i>	<i>PCLK1</i>	<i>-PCIRST</i>	<i>-REQ1/-GNT1</i>	<i>-PIRQD</i>	<i>A_D17</i>
<i>PCI3</i>	<i>PCLK2</i>	<i>-PCIRST</i>	<i>-REQ2/-GNT2</i>	<i>-PIRQC</i>	<i>A_D18</i>
<i>1394b</i>	<i>1394CLK</i>	<i>-PFMRST2</i>	<i>-REQ3/-GNT3</i>	<i>-PIRQH</i>	<i>A_D23</i>
<i>IT8212</i>	<i>RAIDCLK</i>	<i>-PFMRST2</i>	<i>-REQ4/-GNT4</i>	<i>-PIRQG</i>	<i>A_D22</i>

ICH6 GPIO Table:

NAME	PWR LANE	USAGE	NAME	PWR LANE	USAGE
GPI0	V5REF	M/B ID (-REQ6)	GPI41	VCC3	M/B ID
GPI1	V5REF	-REQ5	GPO48	VCC3	-GNT4
GPI2	V5REF	-PIRQE	GPO49	V-CPUIO	CPUPWOK
GPI3	V5REF	-PIRQF			
GPI4	V5REF	-PIRQG			
GPI5	V5REF	-PIRQH			
GPI6	VCC3	-SLP BTN			
GPI7	VCC3	DUAL BIOS			
GPI8	3VDAUL	-LANWAKE			
GPI9	3VDAUL	-USBOC4			
GPI10	3VDAUL	-USBOC5			
GPI11	3VDAUL	-SMBALT			
GPI12	VCC3	ATX DET			
GPI13	3VDAUL	-LPCPME			
GPI14	3VDAUL	-USBOC6			
GPI15	3VDAUL	-USBOC7			
GPO16	VCC3	CPU OV1 (-GNT6)			
GPO17	VCC3	-GNT5			
GPO18	VCC3	CPU OV2			
GPO19	VCC3	DUAL BIOS			
GPO20	VCC3	BIOS T-BLOCK			
GPO21	VCC3	DUAL BIOS			
GPO23	VCC3	DDR OV0			
GPI024	3VDAUL	GREEN LED			
GPI025	3VDAUL	DDR OV1			
GPI26	VCC3	SATA GP0			
GPI027	3VDAUL	+PWRLED			
GPI028	3VDAUL	-PWRLED			
GPI29	VCC3	SATA GP1			
GPI30	VCC3	SATA GP2			
GPI31	VCC3	SATA GP3			
GPI032	VCC3	BIOS WP			
GPI033	VCC3	AZALIA DET			
GPI034	VCC3	PWRLED			
GPI40	V5REF	-REQ4			

PWROK/RESET Table:

ITE8712BHX PIN	NET NAME	TARGET
PIN62/-PCIRST1	-PCIE_RST	1. PCI-E * 1 Slot1 2. PCI-E * 1 Slot2 3. PCI-E * 1 Slot3 4. PCI-E * 16 Slot
PIN64/-PCIRST2	-PFMRST2	1. Onboard PCI Lan 2. Onboard 1394 Chip 3. OnBoard FWH
PIN65/-PCIRST3	-PFMRST1	1. Onboard PCI-E Lan 2. Onboard SATA Chip 3. GMCH
PIN115/-PCIRST4	-PFMRST -IDERST	Reserved For IDE
PIN63/PWROK1	PWROK1	1. GMCH 2. ICH6 3. 5VDUAL SWITCH 4. DPS CONTROL
PIN109/PWROK2	-THERM	1. ICH6

GIGABYTE THCHNOLOGIES , INC.

Title			GPIO/RESET TABLE	
Size	Document Number	8I945PL-G		Rev
Custom				1.1
Date:	Tuesday, November 01, 2005	Sheet	44	of 44