

SHEET

TITLE

01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	L775_A
05	L775_B,D
06	L775_C
07	L775_E,F,G,H
08	BROADWATER HOST
09	BROADWATER DDR
10	BROADWATER PCI_EXP_16,DMI
11	BROADWATER VGA,MISC
12	BROADWATER GND
13	BROADWATER PWR
14	DDRII CHANNEL A-SHARE 1,2
15	DDRII CHANNEL B-SHARE 1,2
16	DDRII CLOCK BUFFER / TERMINATION
17	PCI EXPRESS*16 SLOT
18	ICH7 DMI, PCI, USB
19	ICH7 IDE, GPIO, SATA, CTRL
20	ICH7 VCC, GND
21	ICS9LPRS587 CLOCK.
22	ATX,ATX_12V CONNECT,BIOS
23	PCI EXPRESS*1 SLOT 1,2,3
24	PCI SLOT 1,2,3
25	HWM/ FAN CONTROL
26	IDE/FLOPPY
27	KB_PS2

SHEET

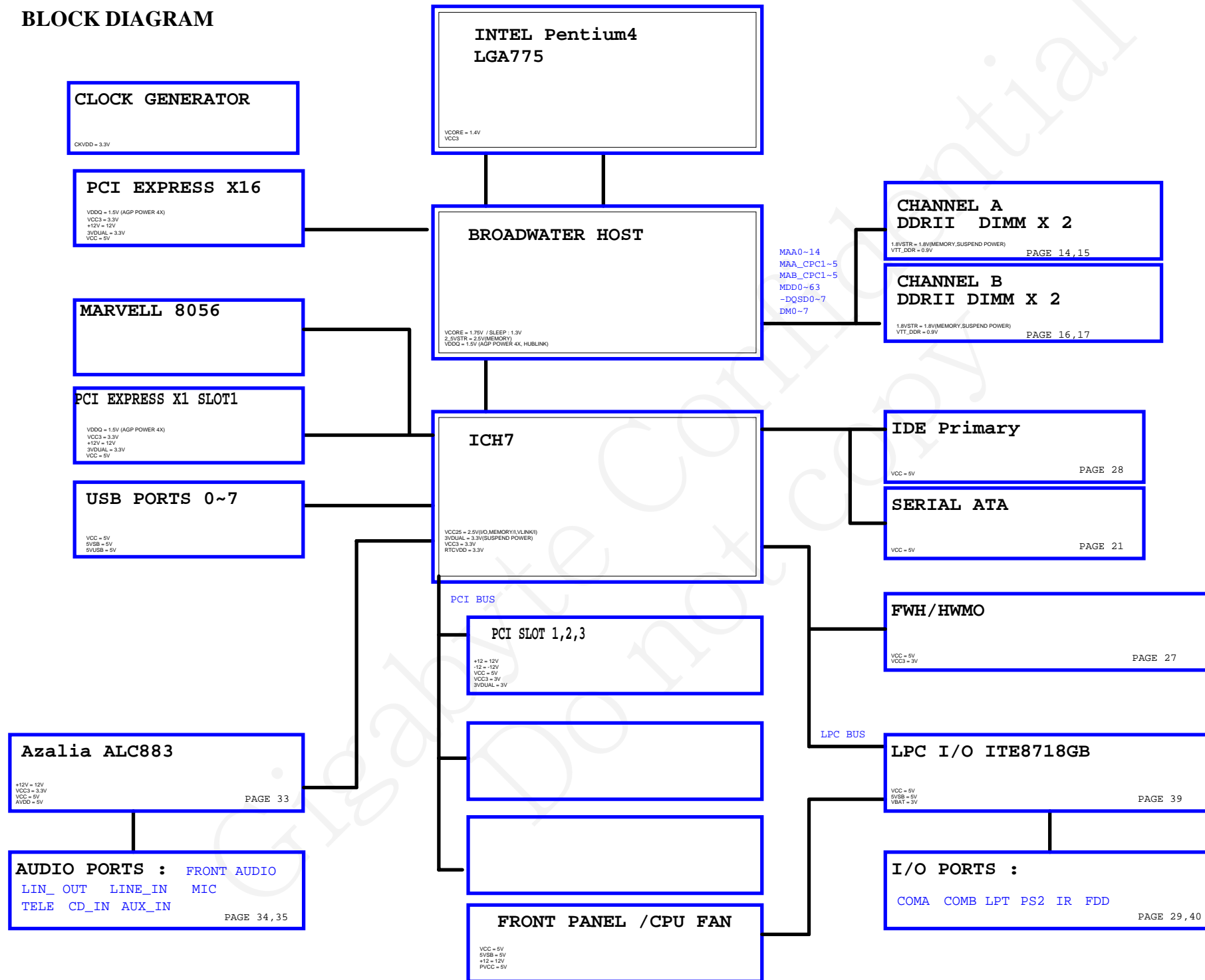
TITLE

28	FRONT PANEL
29	FRONT USB,REAL USB CONNECT
30	PROCESSOR HOT
31	ALC883
32	REAR AUDIO JACK
33	FRONT AUDIO CONNECTOR
34	MARVELL 88E8056
35	ITE 8712/8718 GBKX
36	COM_LPT
37	VCORE PWM
38	DISCRETE POWER
39	GPIO DEFINE
40	GPIO DEFINE
41	
42	
43	
44	

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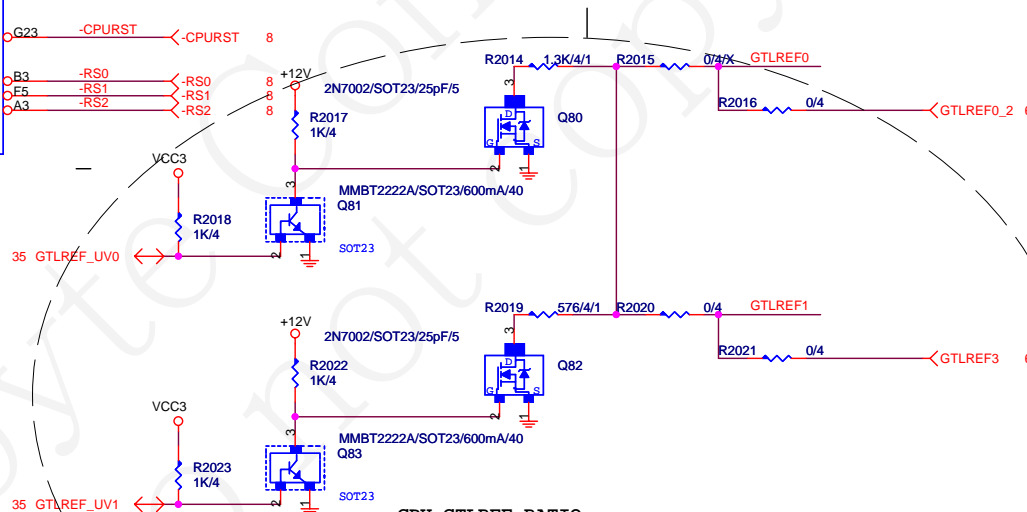
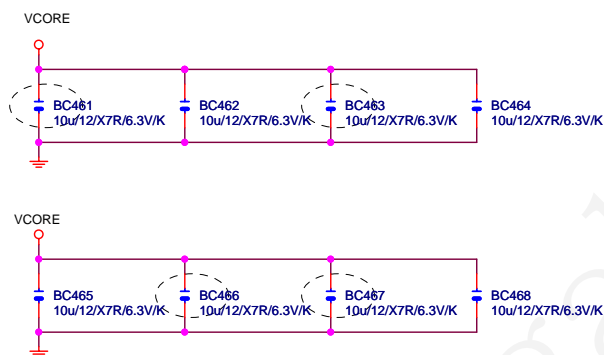
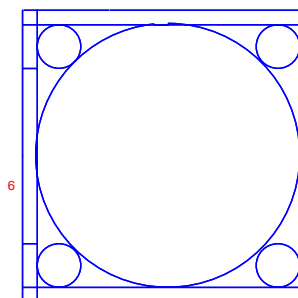
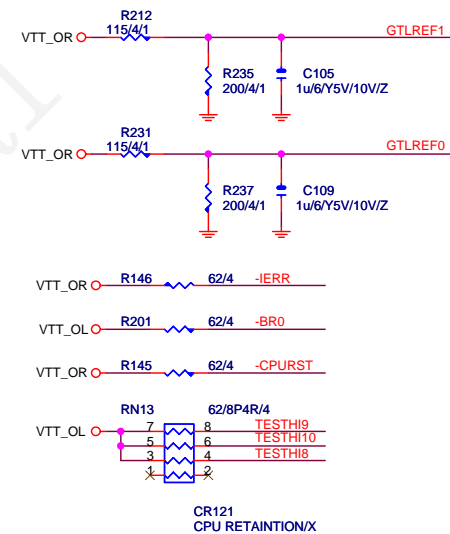
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Cover Sheet		
Size	Document Number	Rev
Custom	P31-DS3L	1.0
Date:	Thursday, November 22, 2007	Sheet 1 of 40

BLOCK DIAGRAM

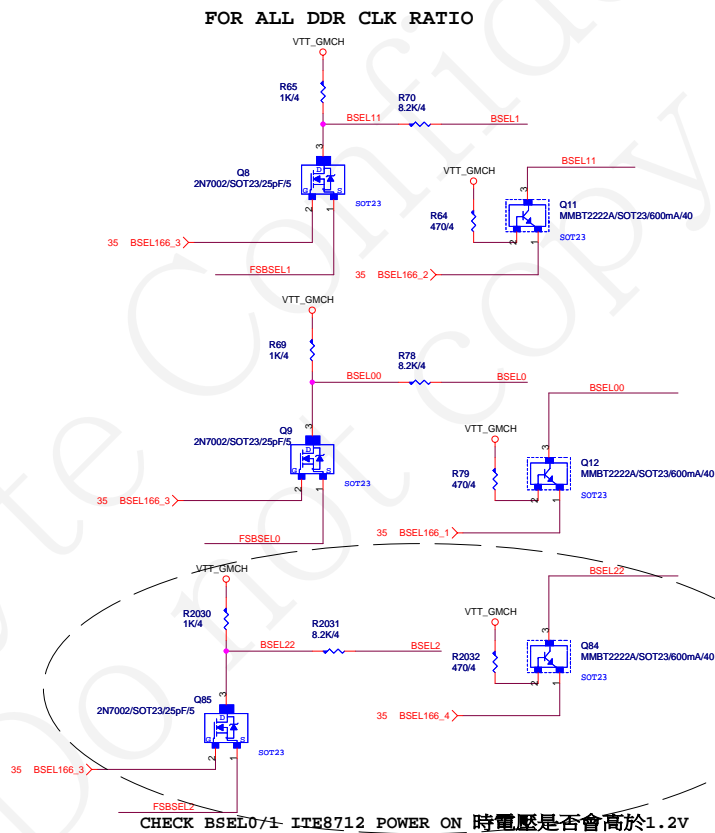
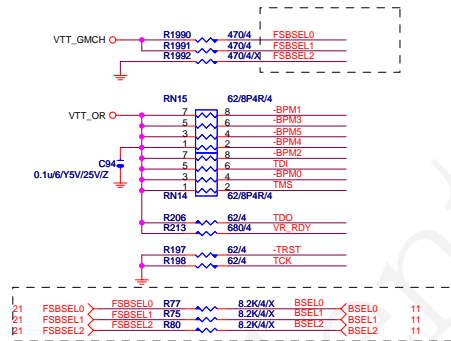


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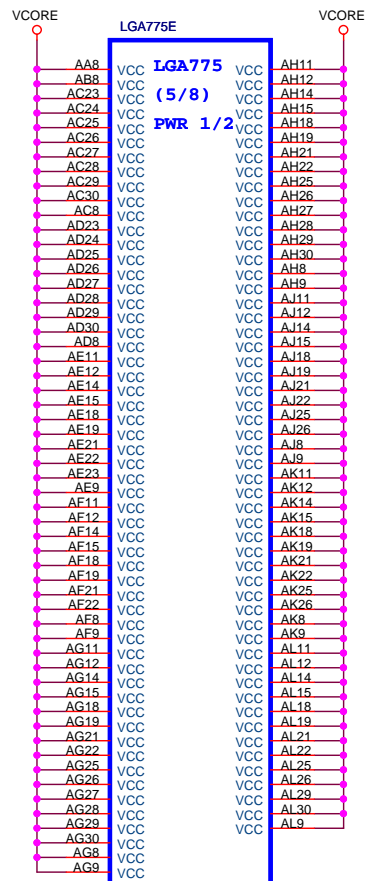
BOM & PCB MODIFY HISTORY			
File	Document Number	P31-DS3L	Rev
Size	Custom		1.02
Date	Friday, July 13, 2007	Sheet	2 of 40



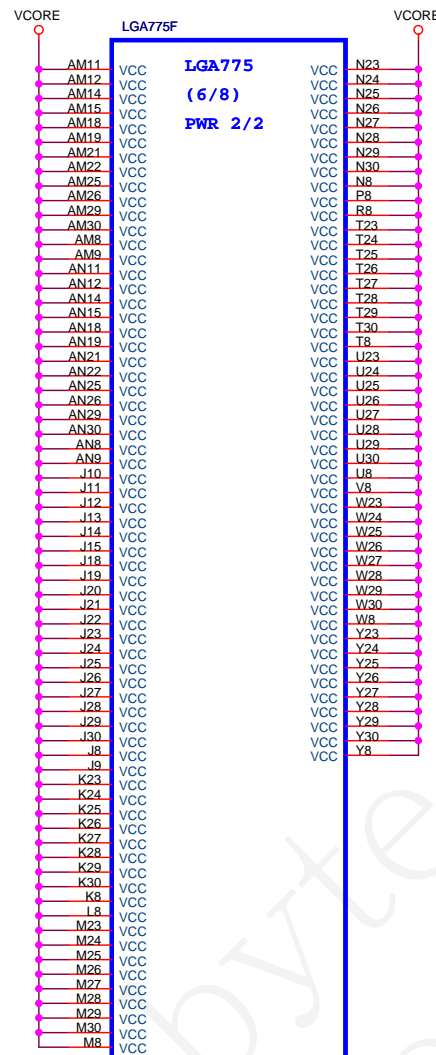
CPU GTLREF RATIO		
GTLREF_UV0	GTLREF_UV1	Ratio Set
HIGH	HIGH	0.67
LOW	HIGH	0.65
HIGH	LOW	0.63
LOW	LOW	0.615



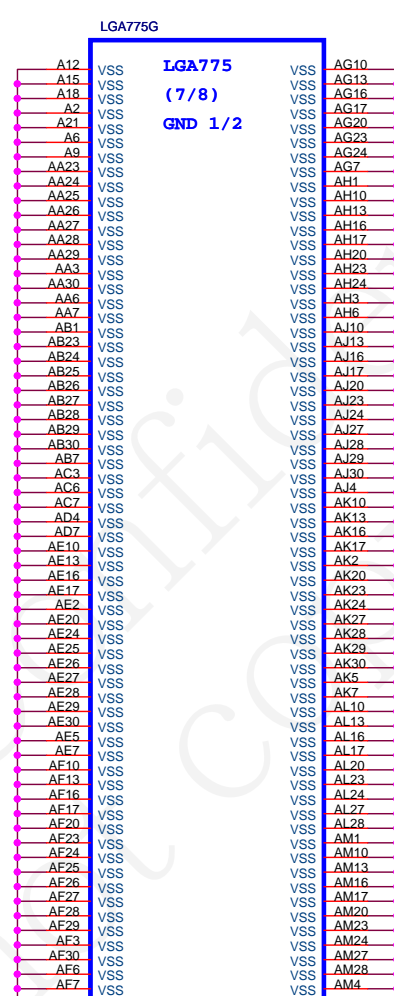
	FSA	FSB	FSC			
	FSBSEL0	FSBSEL1	FSBSEL2	Clock		
?	1	0	1	100MHz		
?	1	0	0	133MHz	3/4	400/533
G31	0	1	0	200MHz	2/2.66/3.33/4	400/533/667/800
G31	0	0	0	266MHz	2/2.5/3/4	533/667/800/1066
G31	0	0	1	333MHz	2/2.4	667/800



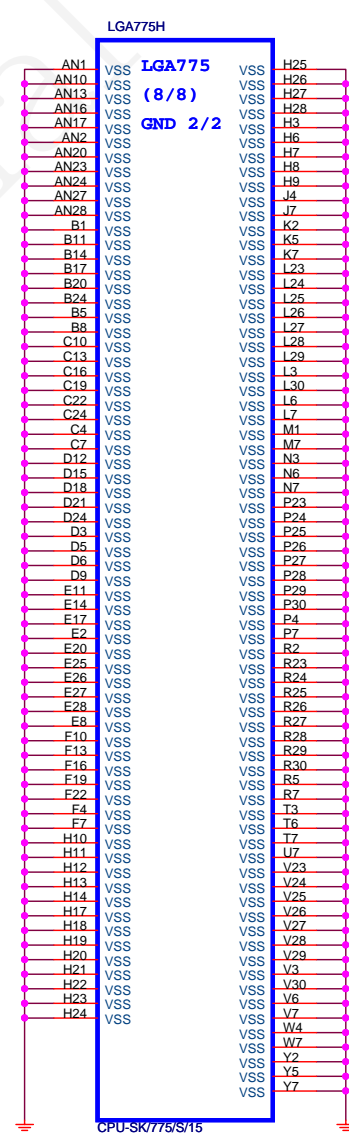
CPU-SK/775/S/15



CPU-SK/775/S/15



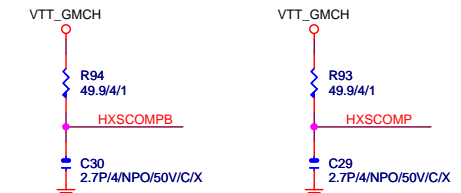
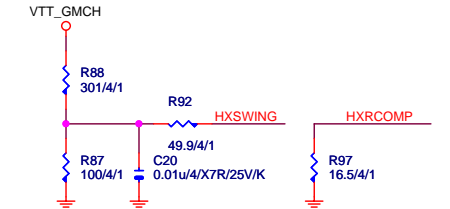
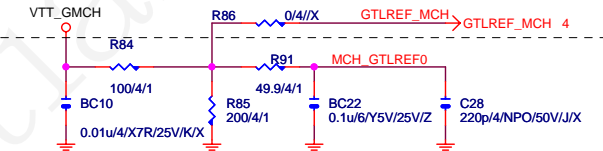
CPU-SK/775/S/15



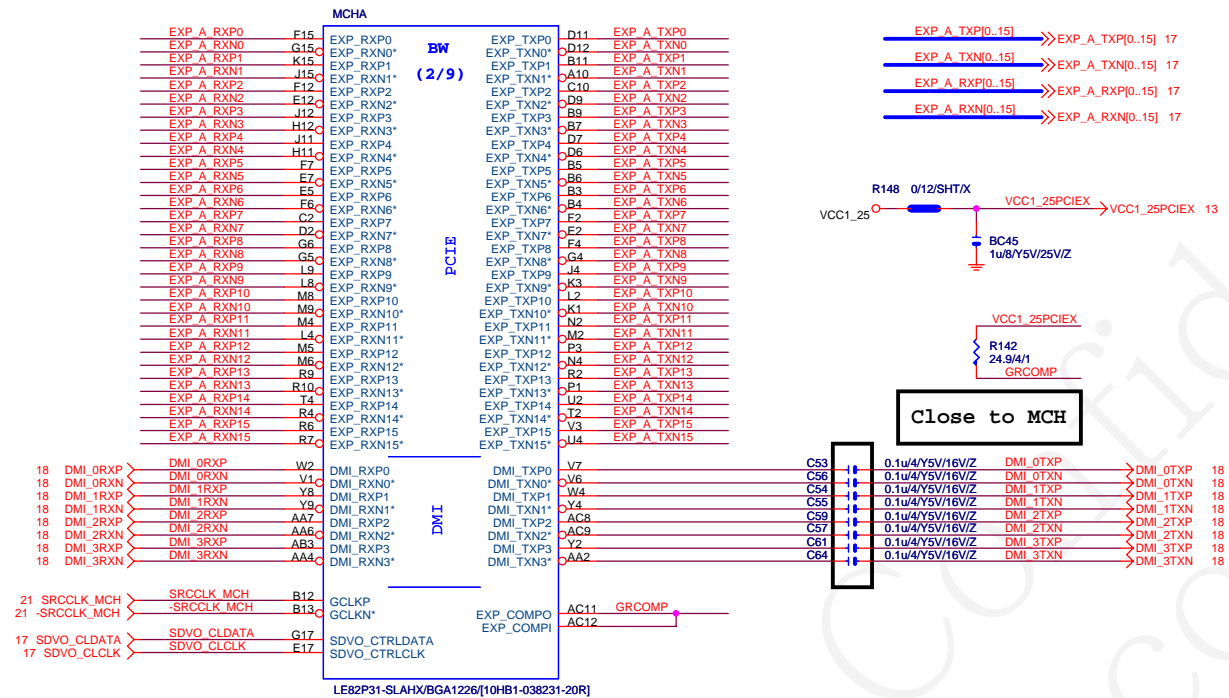
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Gigabyte Technology

Title			P4_LGA775-E,F,G,H	
Size	Document Number	P31-DS3L		Rev
B				1.0
Date:	Friday, July 13, 2007	Sheet	7	of 40







Gigabyte Technology

Title

GMCH-PCI E & DMI

Size

Document Number

P31-DS3L

Rev

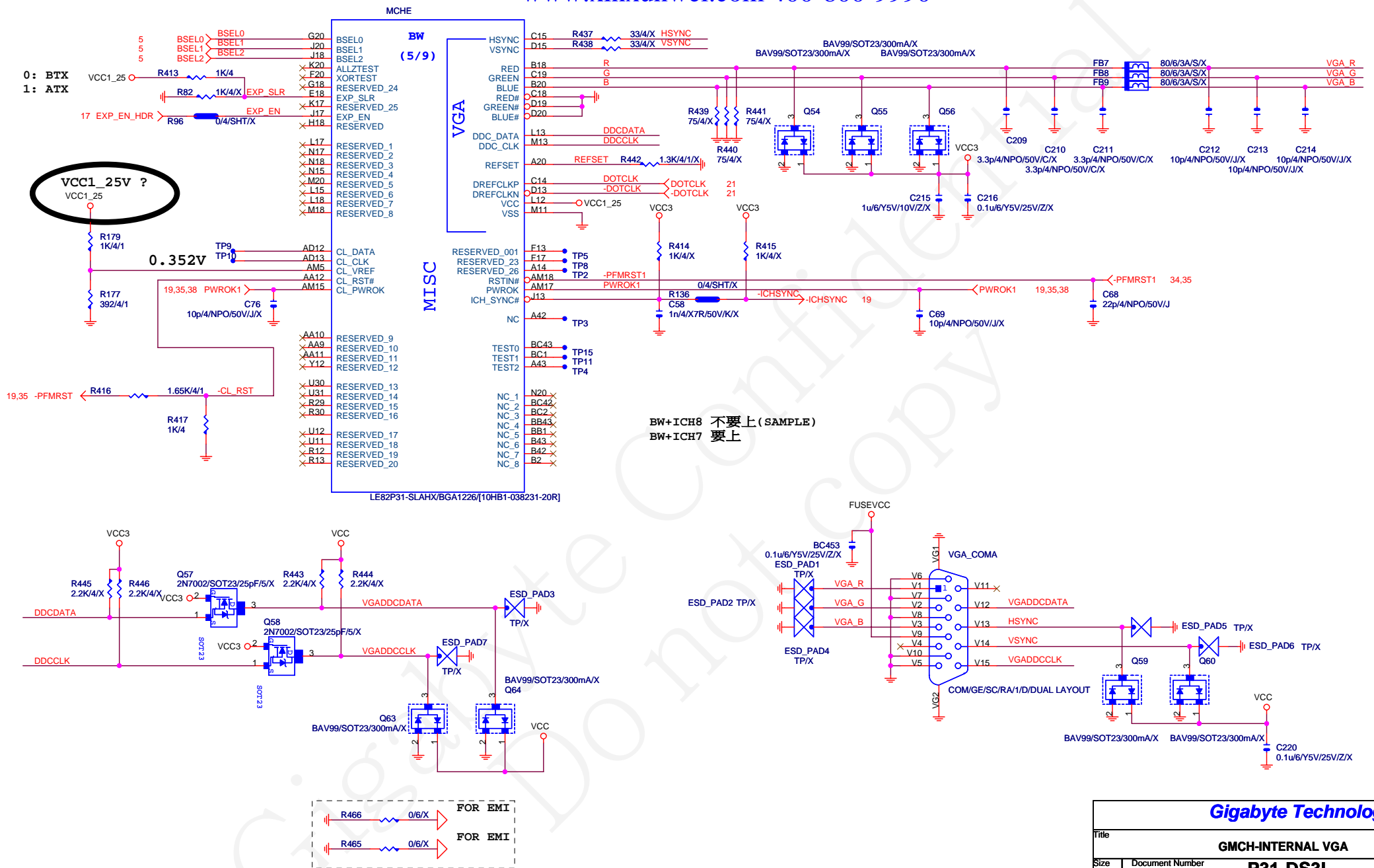
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Date:

Friday, July 13, 2007

Sheet

10 of 40



MCHG

BC37	VSS_1	BW	VSS_181	AF5
BC32	VSS_2	(7/9)	VSS_182	AF3
BC28	VSS_3		VSS_183	AF2
BC24	VSS_4		VSS_184	AF1
BC10	VSS_5	GND 1/2	VSS_185	AD42
BC5	VSS_6		VSS_186	AD39
BB7	VSS_7		VSS_187	AD37
AY41	VSS_8		VSS_188	AD35
AY4	VSS_9		VSS_189	AD33
AW43	VSS_10		VSS_190	AD25
AW41	VSS_11		VSS_191	AD23
AW1	VSS_12		VSS_192	AD21
AV37	VSS_13		VSS_193	AD19
AV35	VSS_14		VSS_194	AC38
AV27	VSS_15		VSS_195	AC35
AV23	VSS_16		VSS_196	AC24
AV21	VSS_17		VSS_197	AC22
AV17	VSS_18		VSS_198	AC20
AV11	VSS_19		VSS_199	AC10
AV9	VSS_20		VSS_200	AC7
AV7	VSS_21		VSS_201	AC5
AU42	VSS_22		VSS_202	AB43
AU38	VSS_23		VSS_203	AB25
AU32	VSS_24		VSS_204	AB23
AU24	VSS_25		VSS_205	AB21
AU20	VSS_26		VSS_206	AB19
AU6	VSS_27		VSS_207	AB2
AU2	VSS_28		VSS_208	AB1
AT31	VSS_29		VSS_209	AA38
AT29	VSS_30		VSS_210	AA35
AT15	VSS_31		VSS_211	AA24
AT13	VSS_32		VSS_212	AA22
AT12	VSS_33		VSS_213	AA20
AR38	VSS_34		VSS_214	AA8
AR33	VSS_35		VSS_215	AA5
AR32	VSS_36		VSS_216	Y42
AR27	VSS_37		VSS_217	Y37
AR26	VSS_38		VSS_218	Y35
AR23	VSS_39		VSS_219	Y33
AR21	VSS_40		VSS_220	Y25
AR20	VSS_41		VSS_221	Y23
AR17	VSS_42		VSS_222	Y21
AR9	VSS_43		VSS_223	Y19
AR6	VSS_44		VSS_224	Y10
AP43	VSS_45		VSS_225	Y7
AP24	VSS_46		VSS_226	Y5
AP18	VSS_47		VSS_227	Y1
AP1	VSS_48		VSS_228	W3
AN38	VSS_49		VSS_229	V43
AN31	VSS_50		VSS_230	V39
AN29	VSS_51		VSS_231	V37
AN24	VSS_52		VSS_232	V34
AN23	VSS_53		VSS_233	V32
AN20	VSS_54		VSS_234	V11
AN15	VSS_55		VSS_235	V8
AN13	VSS_56		VSS_236	V5
AN12	VSS_57		VSS_237	V2
AN11	VSS_58		VSS_238	U38
AN4	VSS_59		VSS_239	U35
AM42	VSS_60		VSS_240	U8
AM40	VSS_61		VSS_241	U7
AM36	VSS_62		VSS_242	U5
AM33	VSS_63		VSS_243	T42
AM29	VSS_64		VSS_244	T1
AM24	VSS_65		VSS_245	R36
AM23	VSS_66		VSS_246	R33
AM20	VSS_67		VSS_247	R31
AM11	VSS_68		VSS_248	R11
AM9	VSS_69		VSS_249	R8
AM7	VSS_70		VSS_250	R5
AM4	VSS_71		VSS_251	R3
AM2	VSS_72		VSS_252	P43
AM1	VSS_73		VSS_253	P30
AL36	VSS_74		VSS_254	P21
AL33	VSS_75		VSS_255	P18
AK43	VSS_76		VSS_256	P17
AJ38	VSS_77		VSS_257	P2
AJ36	VSS_78		VSS_258	N36
AJ33	VSS_79		VSS_259	N33
AH42	VSS_80		VSS_260	N31
AG37	VSS_81		VSS_261	N27
AG34	VSS_82		VSS_262	N21
AF43	VSS_83		VSS_263	N13
AF37	VSS_84		VSS_264	N10
AF36	VSS_85		VSS_265	N7
AF10	VSS_86		VSS_266	N5
AF9	VSS_87		VSS_267	M42
AF8	VSS_88		VSS_268	M37
AF7	VSS_89		VSS_269	M35
AF6	VSS_90		VSS_270	M33

LE82P31-SLAHX/BGA1226/[10HB1-038231-20R]

MCHI

M27	VSS_91	BW	VSS_271	BC41
M21	VSS_92	(9/9)	VSS_272	BC3
M17	VSS_93		VSS_273	BA1
M15	VSS_94	GND 2/2	VSS_274	AY40
M10	VSS_95		VSS_275	AF23
M7	VSS_96		VSS_276	AF21
M1	VSS_97		VSS_277	AF19
L33	VSS_98		VSS_278	AF24
L32	VSS_99		VSS_279	AE22
L31	VSS_100		VSS_280	AE20
L29	VSS_101		VSS_281	AE18
L21	VSS_102		VSS_282	AC18
L20	VSS_103		VSS_283	AA18
L11	VSS_104		VSS_284	W24
L7	VSS_105		VSS_285	W22
L5	VSS_106		VSS_286	W20
L3	VSS_107		VSS_287	R21
K43	VSS_108		VSS_288	E1
K26	VSS_109		VSS_289	C43
K21	VSS_110		VSS_290	C1
K18	VSS_111		VSS_291	A41
K13	VSS_112		VSS_292	A5
K12	VSS_113		VSS_293	A3
K2	VSS_114			
J38	VSS_115			
J35	VSS_116			
J32	VSS_117			
J27	VSS_118			
J21	VSS_119			
J9	VSS_120			
J7	VSS_121			
J5	VSS_122			
H31	VSS_123			
H29	VSS_124			
H21	VSS_125			
H20	VSS_126			
H17	VSS_127			
H15	VSS_128			
H13	VSS_129			
G42	VSS_130			
G38	VSS_131			
G32	VSS_132			
G21	VSS_133			
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G12	VSS_135			
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G1	VSS_139			
F37	VSS_140			
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F18	VSS_144			
F3	VSS_145			
F43	VSS_146			
E32	VSS_147			
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E13	VSS_152			
E11	VSS_153			
E9	VSS_154			
E3	VSS_155			
D40	VSS_156			
D31	VSS_157			
D21	VSS_158			
D17	VSS_159			
D3	VSS_160			
C26	VSS_161			
C11	VSS_162			
C6	VSS_163			
C5	VSS_164			
C4	VSS_165			
B37	VSS_166			
B32	VSS_167			
B31	VSS_168			
B26	VSS_169			
B23	VSS_170			
B22	VSS_171			
B19	VSS_172			
B14	VSS_173			
B10	VSS_174			
A39	VSS_175			
A34	VSS_176			
A26	VSS_177			
A18	VSS_178			
A12	VSS_179			
A7	VSS_180			

LE82P31-SLAHX/BGA1226/[10HB1-038231-20R]

Gigabyte Technology

Title

GMCH-GND

Size
Custom

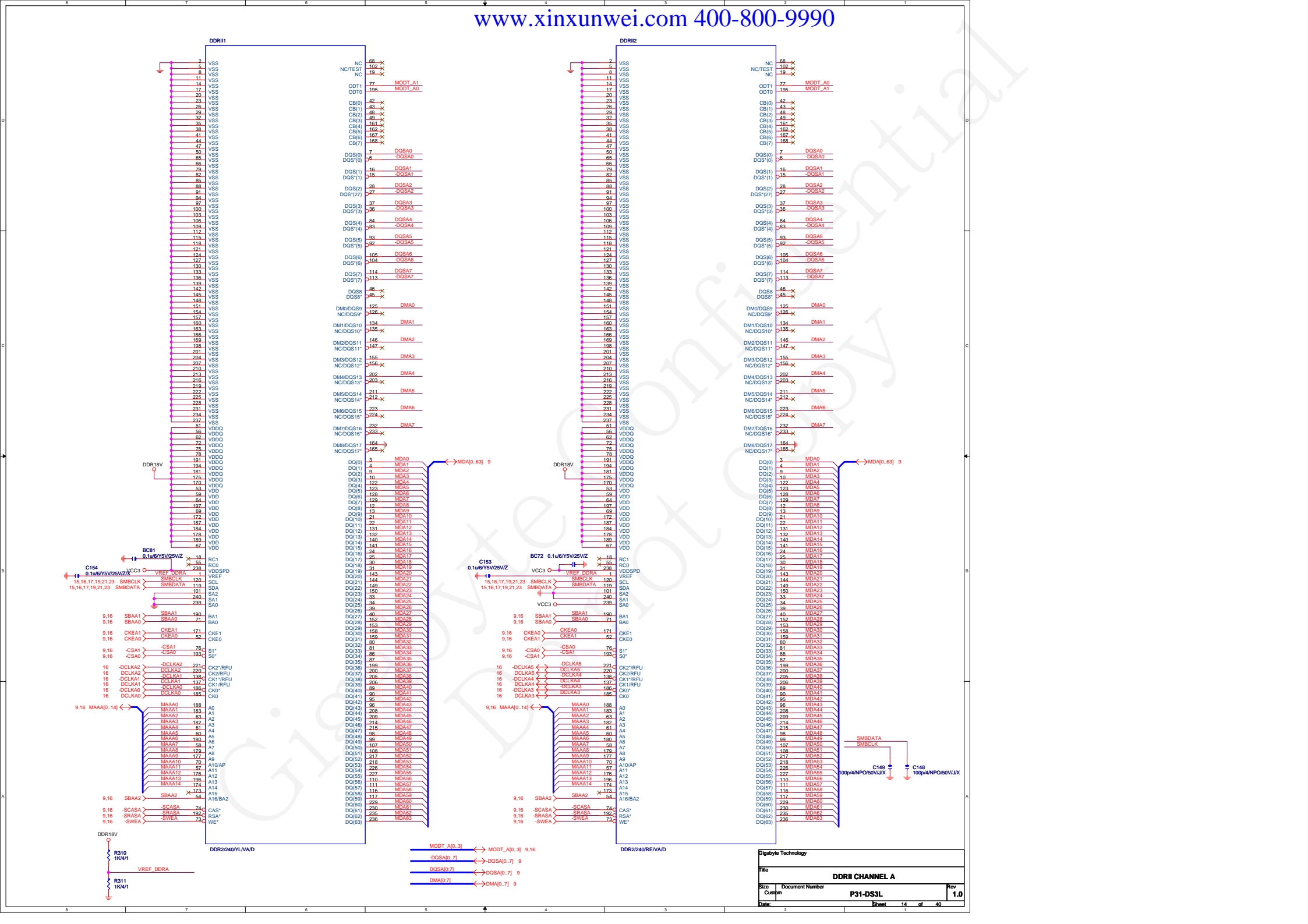
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P31-DS3L

Rev
1.0

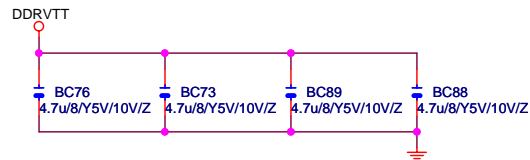
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Sheet 12 of 40

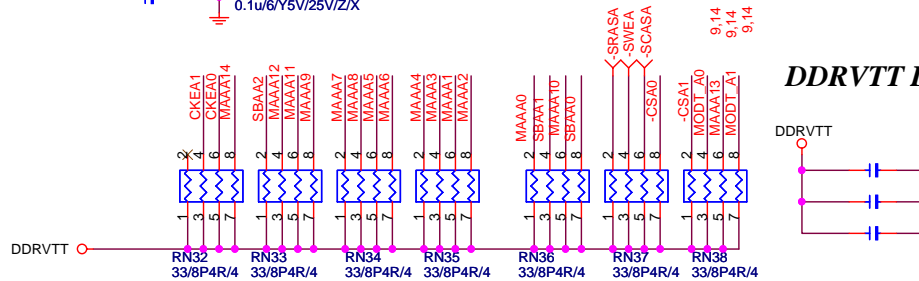
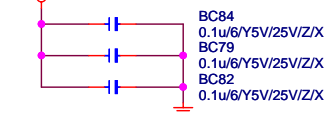


DDR TERMINATION CHANNEL A

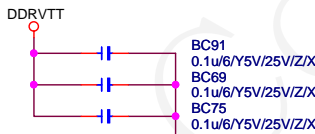
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DDR18V Decouple

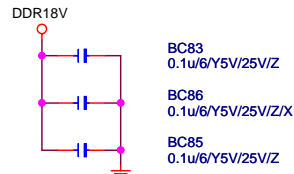


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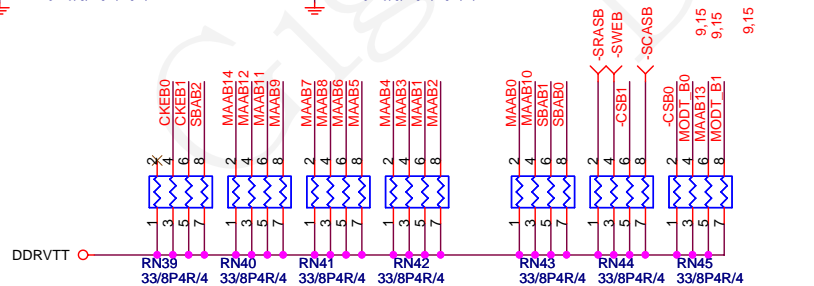
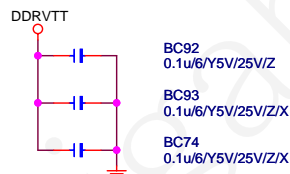


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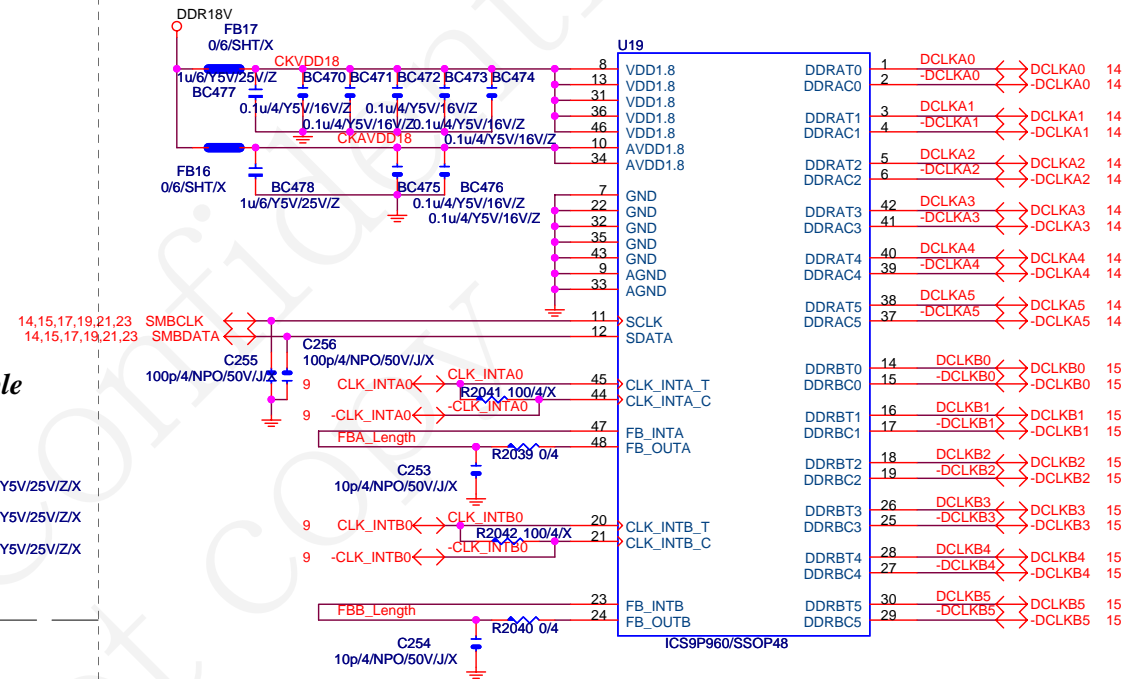
DDR18V Decouple



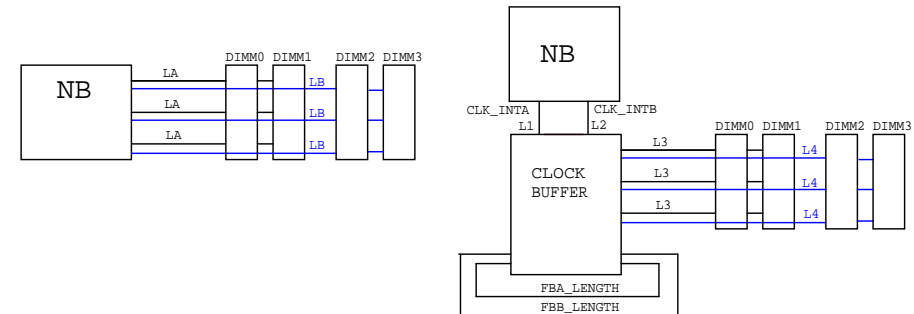
DDRVTT Decouple



DDR2 CLOCK BUFFER

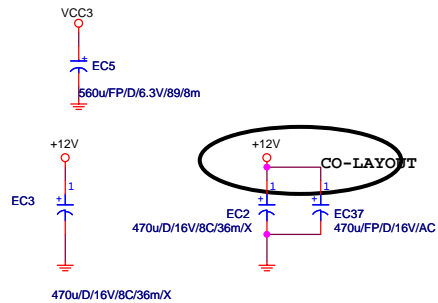


NOTICE
FBA_LENGTH=L1+L3-LA
FBB_LENGTH=L2+L4-LB



Gigabyte Technology

Title			
DDR2 CLOCK BUFFER/TERMINATOR			
Size	Document Number	P31-DS3L	
Custom		Rev 1.0	
Date:	Friday, July 13, 2007	Sheet	16 of 40



14,15,16,19,21,23 SMBCLK
14,15,16,19,21,23 SMBDATA

19,23,34 -PCIE_WAKE

10 SDVO_CLKLK

10 SDVO_CLDATA

11 EXP_EN_HDR

VCC3

0315-->Intel

R95 1K/4/X

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

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EXP A TXP15C

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EXP A TXP124C

EXP A TXN124C

EXP A TXP125C

EXP A TXN125C

EXP A TXP126C

EXP A TXN126C

EXP A TXP127C

EXP A TXN127C

EXP A TXP128C

EXP A TXN128C

EXP A TXP129C

EXP A TXN129C

EXP A TXP130C

EXP A TXN130C

EXP A TXP131C

EXP A TXN131C

EXP A TXP132C

EXP A TXN132C

EXP A TXP133C

EXP A TXN133C

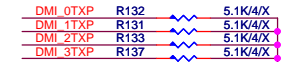
EXP A TXP134C

EXP A TXN134C

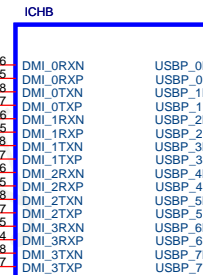
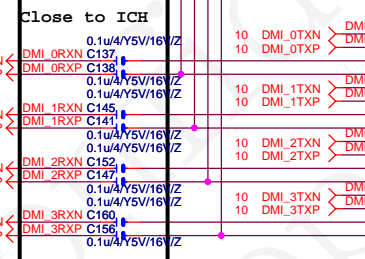
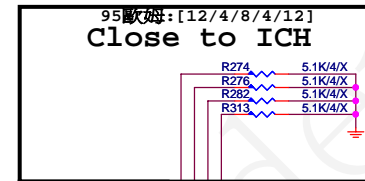
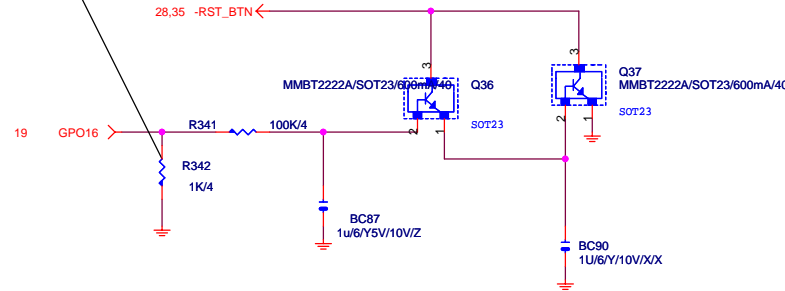
EXP A

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

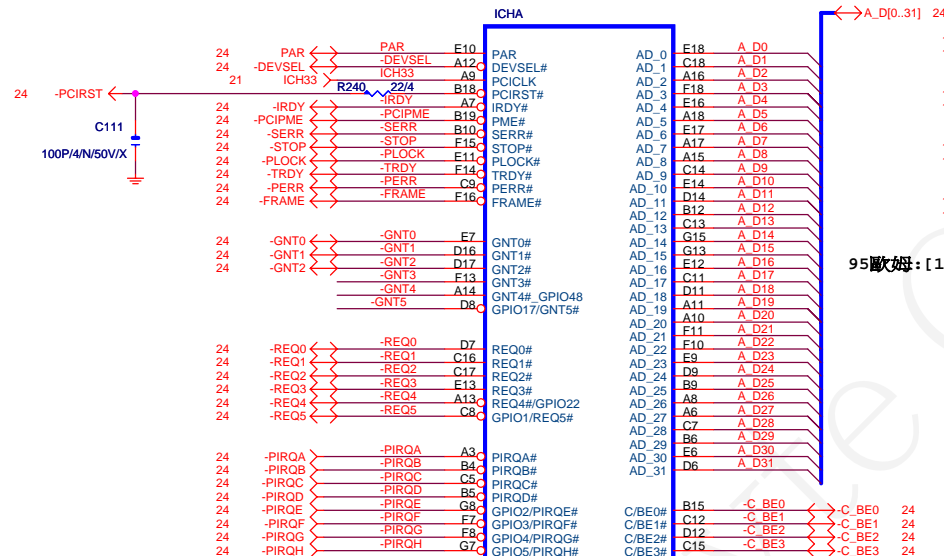
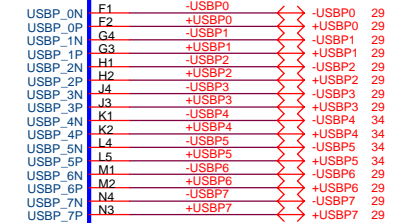
Close to ICH
as short as possible



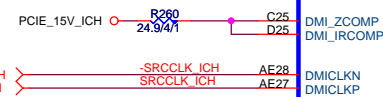
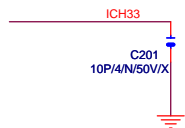
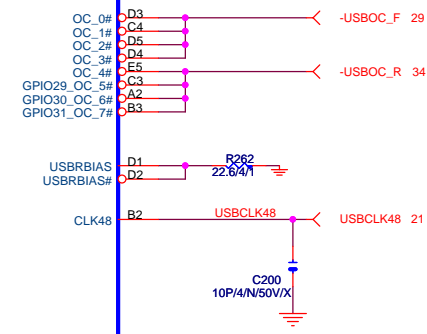
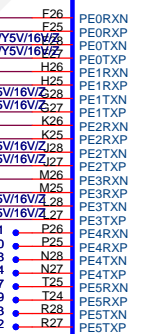
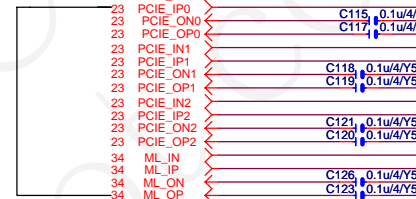
H/W
RESET



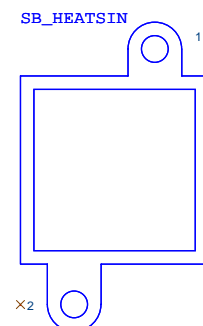
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95 歐姆:[15/4/8/4/15]



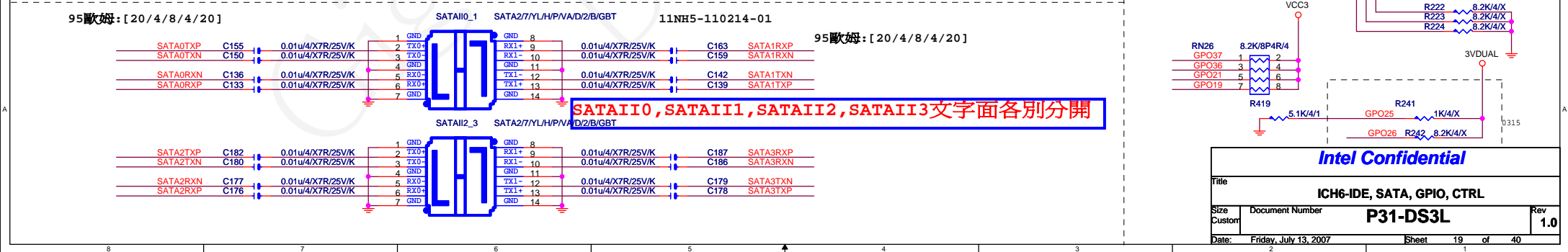
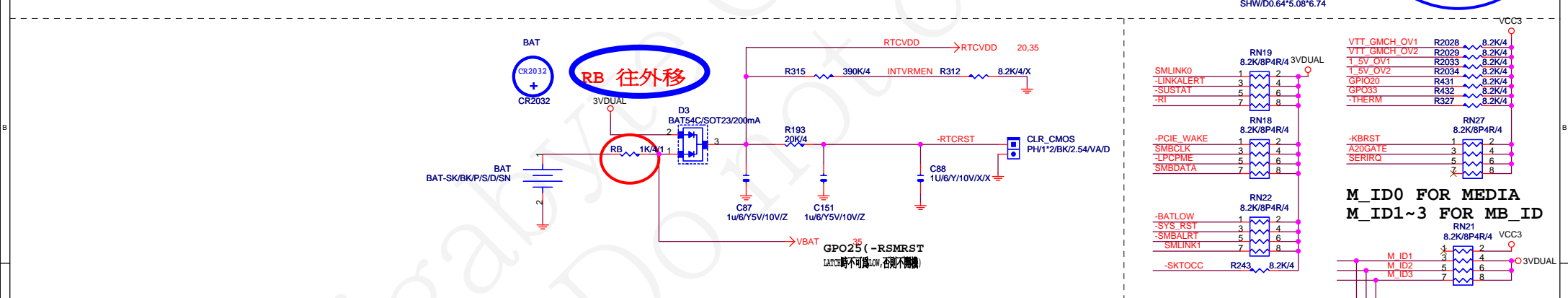
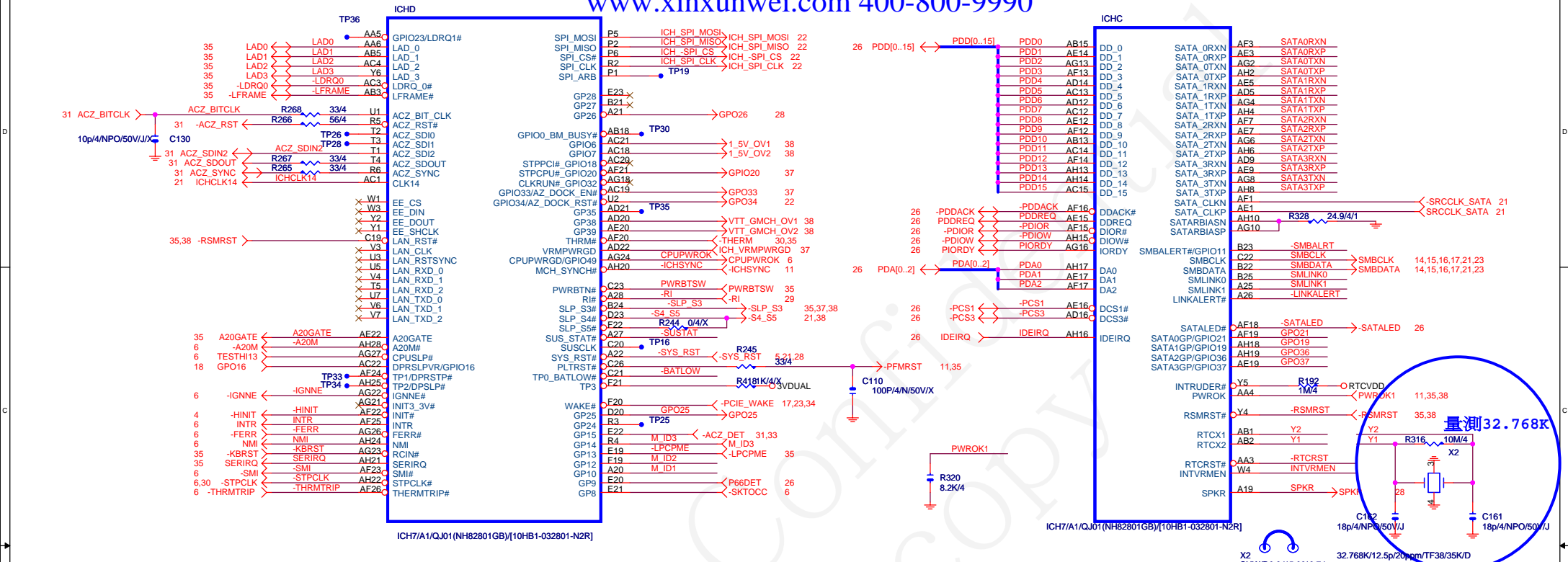
ICH7/A1/QJ01(NH82801GB)/[10HB1-032801-N2R

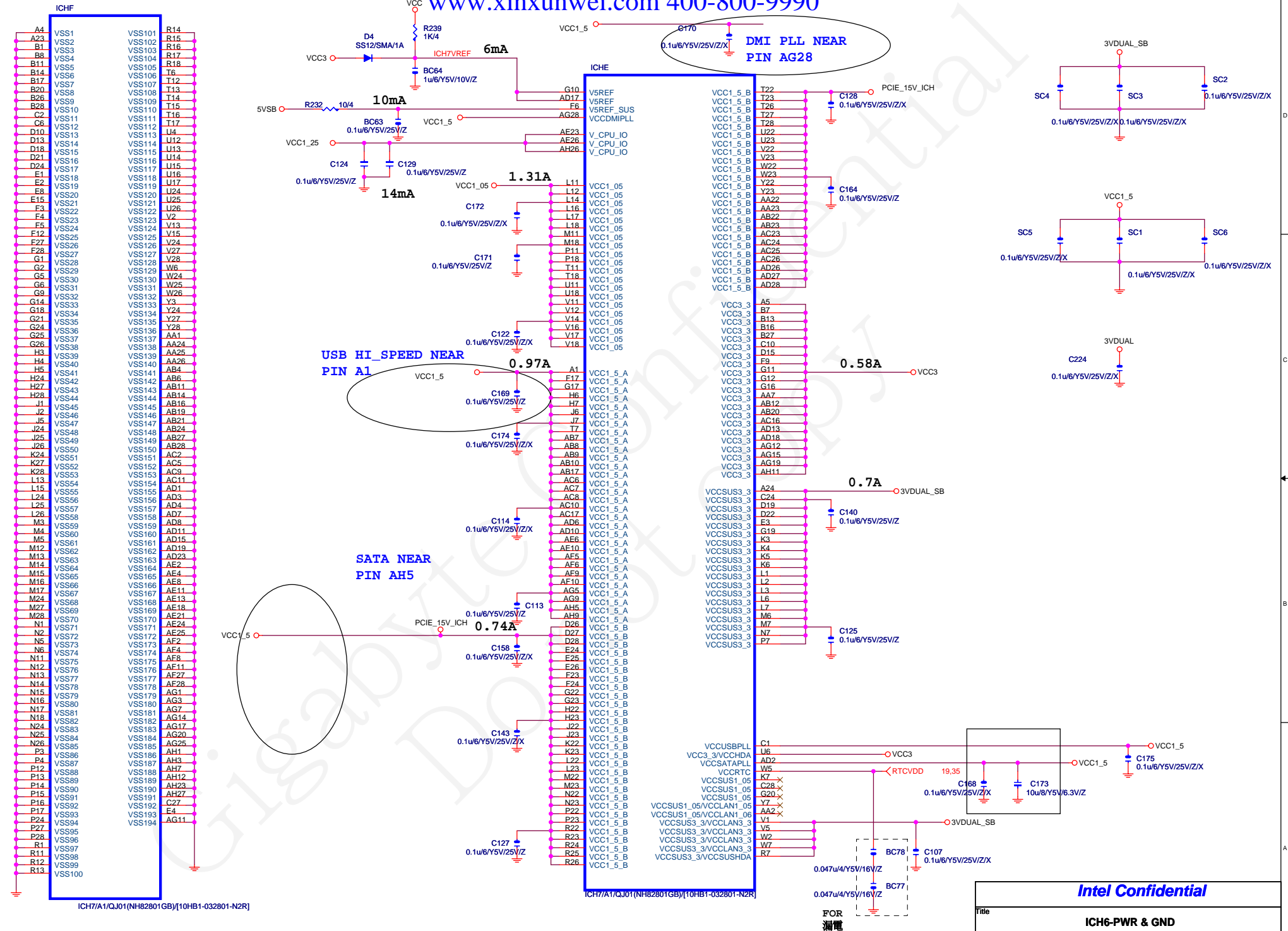


	GNT4#	GNT5#
SPI=	1	0
PCI=	0	1
LPC=	1	1

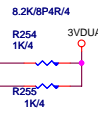
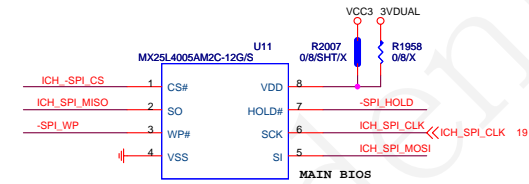


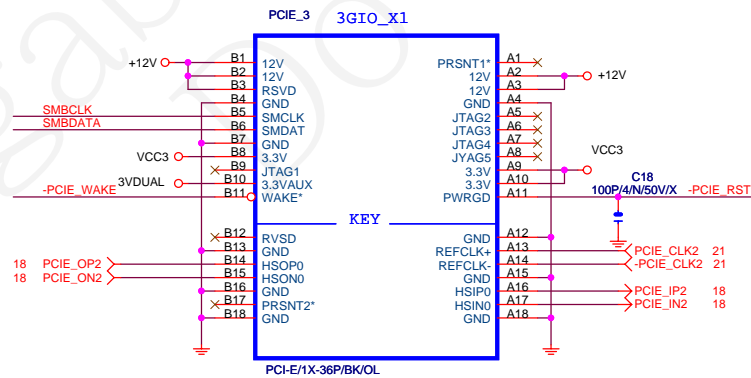
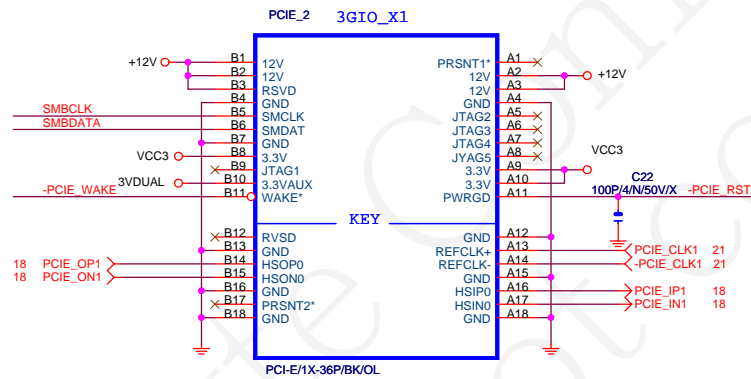
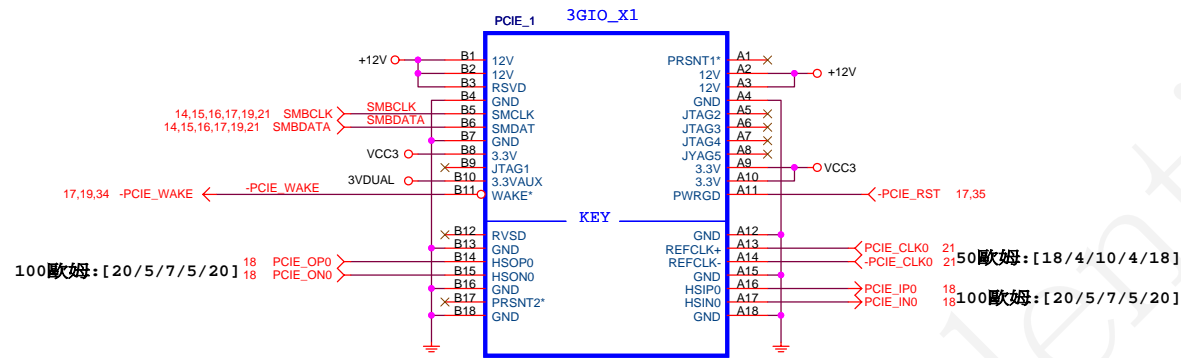
Intel Confidential







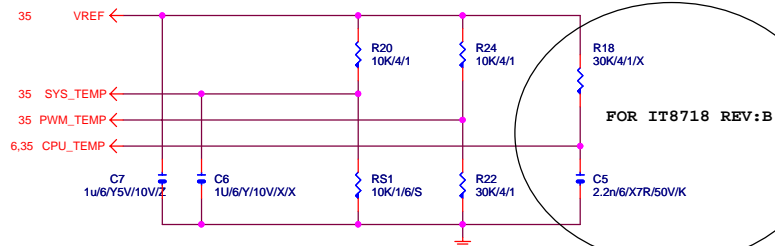
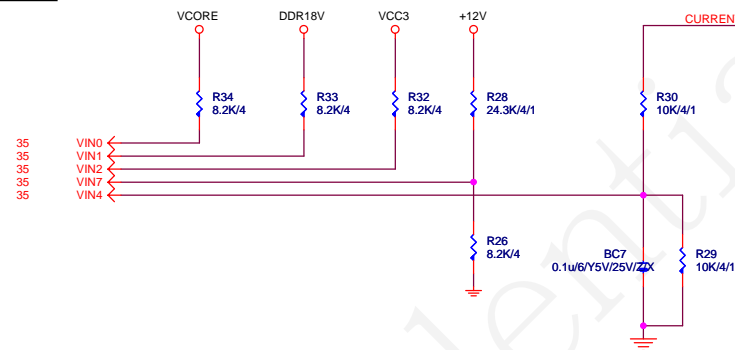
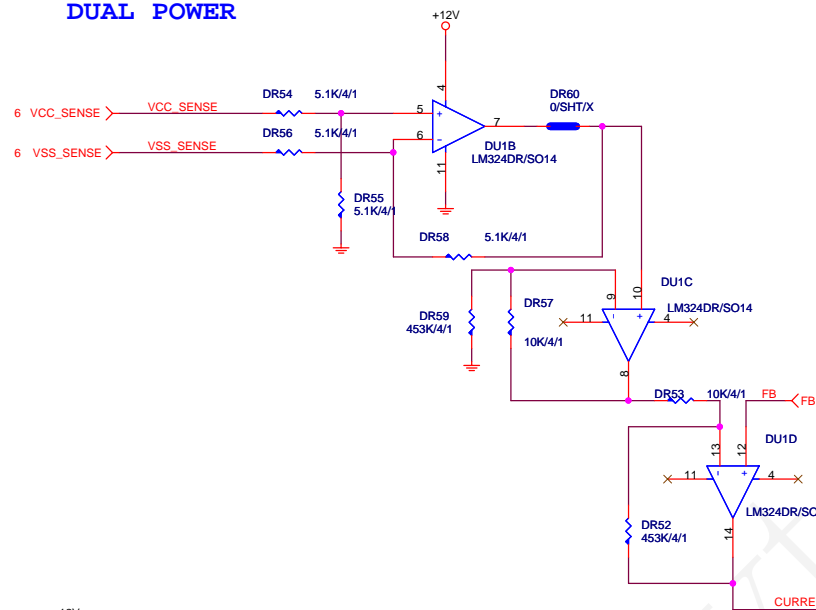




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Title			
PCI E SLOT 1, 2, 3			
Size B	Document Number	P31-DS3L	
Date	Friday, July 13, 2007	Sheet 23	of 40
		Rev	1.0



TEMP. SENSE**VOLTAGE SENSE****DUAL POWER****CPU/SYS FAN**

If use PBSS5240 lpcs : (non airflow)

If use PBSS5240 lpcs : (with airflow)

CPUFAN_VCC=12V: Temp=40 deg

CPUFAN_VCC=12V: Temp=33 deg

CPUFAN_VCC=11V: Temp=82 deg

CPUFAN_VCC=11V: Temp=62 deg

CPUFAN_VCC=10V: Temp=70 deg

CPUFAN_VCC=10V: Temp=86 deg

CPUFAN_VCC= 9V: Temp=110 deg

CPUFAN_VCC= 9V: Temp=117 deg

CPUFAN_VCC= 8V: Temp>200 deg

CPUFAN_VCC= 8V: Temp>122 deg

ThermalTake FAN Power Consumption: 0.82A

Intel FAN Power Consumption Spec: 1.1A

CPUFAN_VCC

FANPWM1

FANPWM2

FANPWM3

FANPWM4

FANPWM5

FANPWM6

FANPWM7

FANPWM8

FANPWM9

FANPWM10

FANPWM11

FANPWM12

FANPWM13

FANPWM14

FANPWM15

FANPWM16

FANPWM17

FANPWM18

FANPWM19

FANPWM20

FANPWM21

FANPWM22

FANPWM23

FANPWM24

FANPWM25

FANPWM26

FANPWM27

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FANPWM31

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FANPWM284

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FANPWM289

FANPWM290

FANPWM291

FANPWM292

FANPWM293

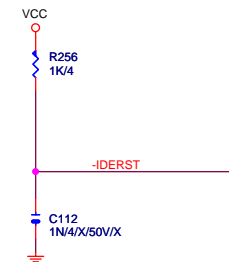
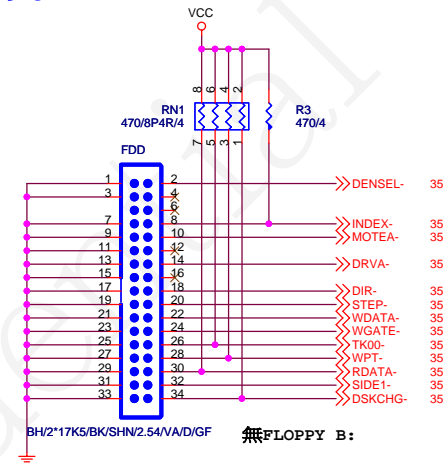
FANPWM294

FANPWM295

FANPWM296

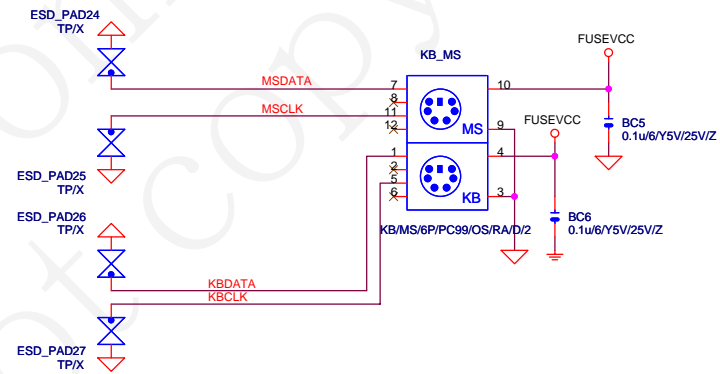
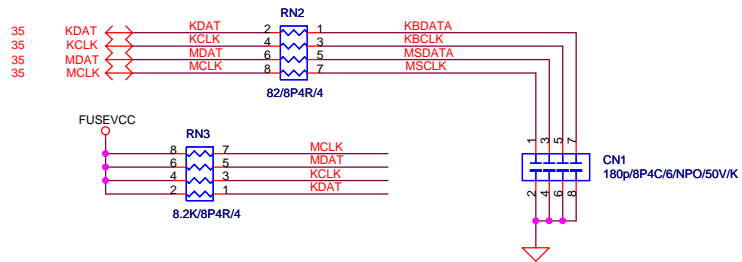
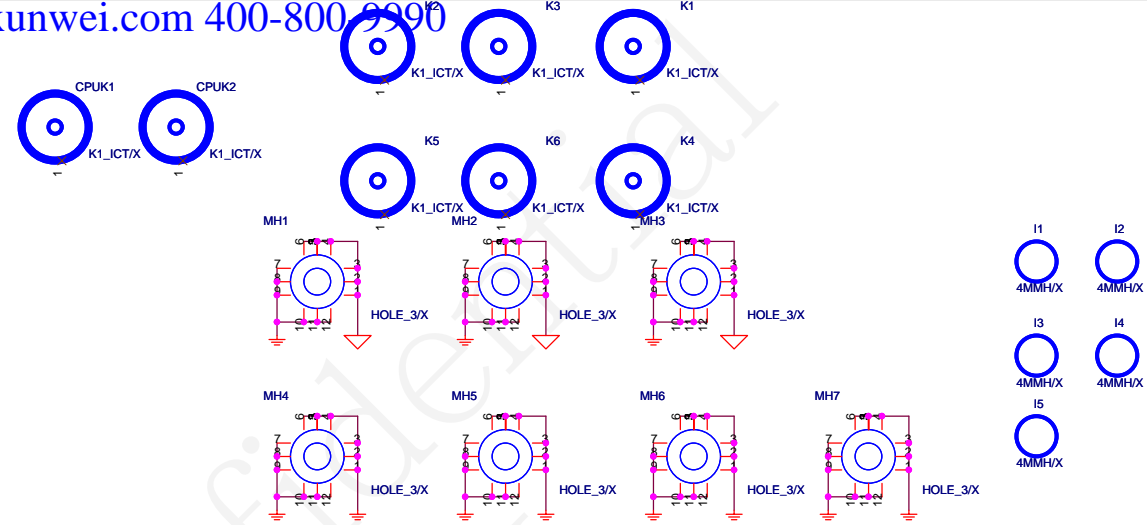
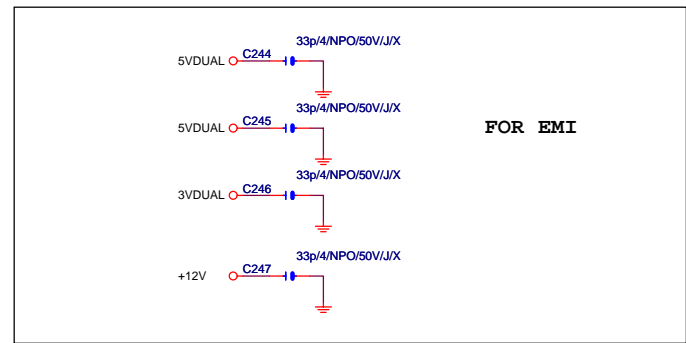
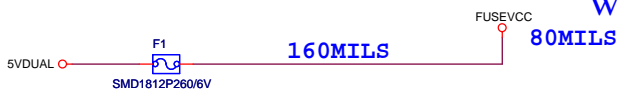
FANPWM297

FANPWM298

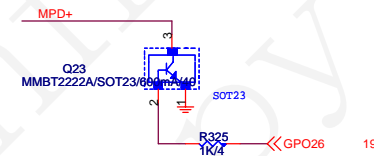
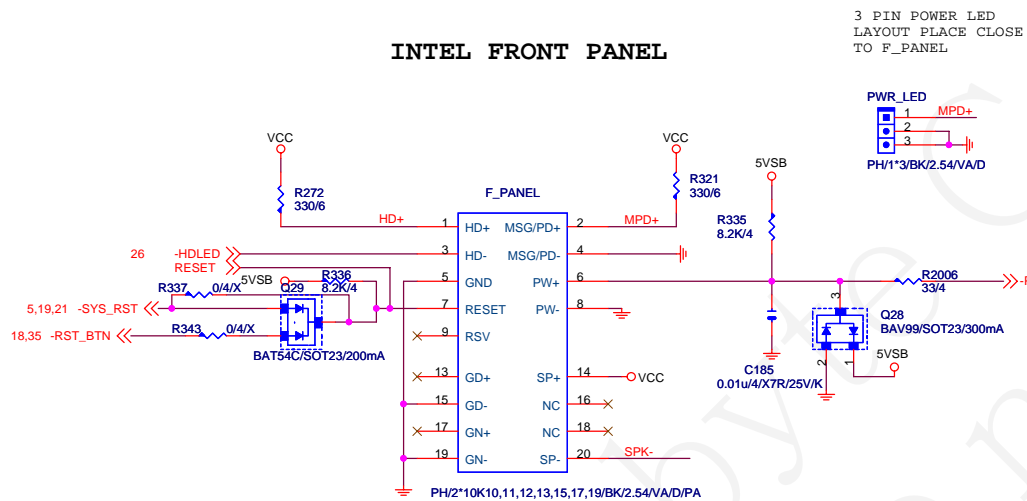


Default 不上,由IT8712 OUTPUT,REV0.2 驗證

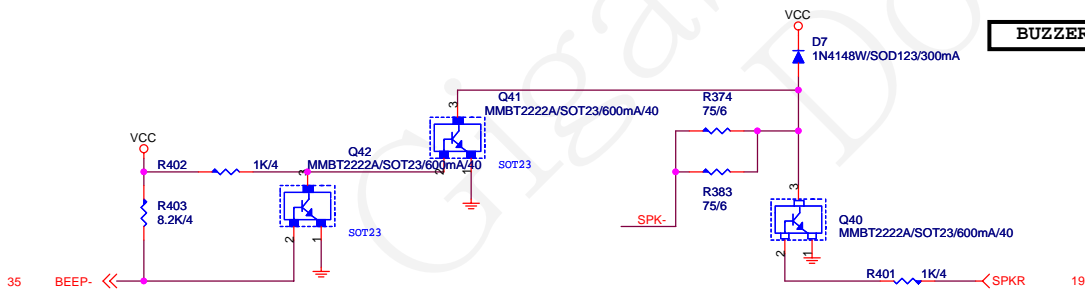




INTEL FRONT PANEL



BUZZER



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Title			FRONT PANEL
Size			P31-DS3L
Document Number			Rev 1.0
Date:	Friday, July 13, 2007	Sheet	28 of 40

FRONT USB

90欧姆:[15/4.5/7.5/4.5/15]

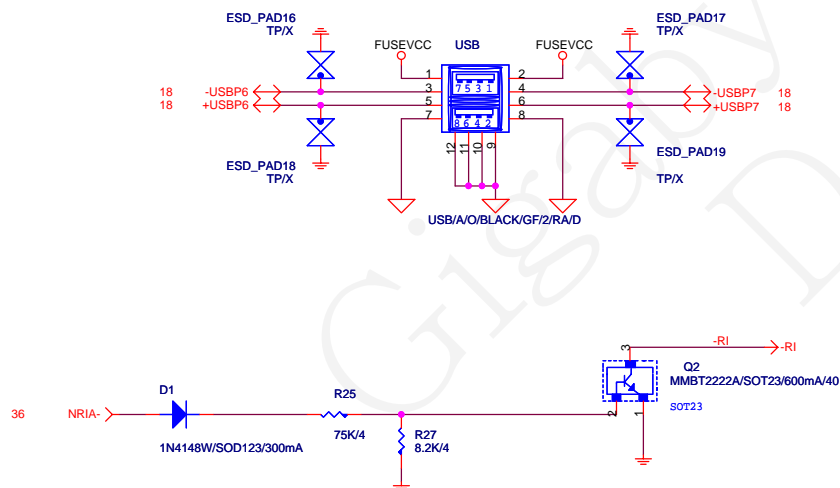
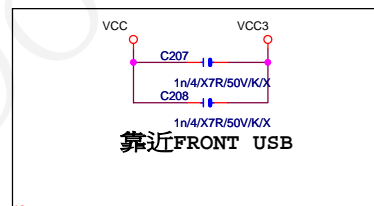
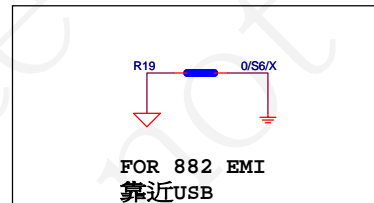
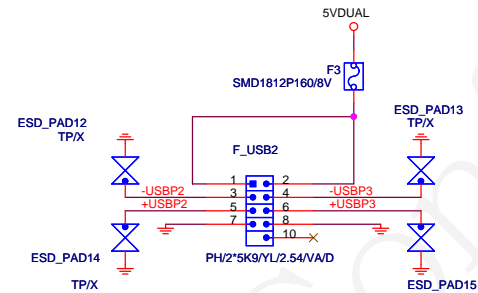
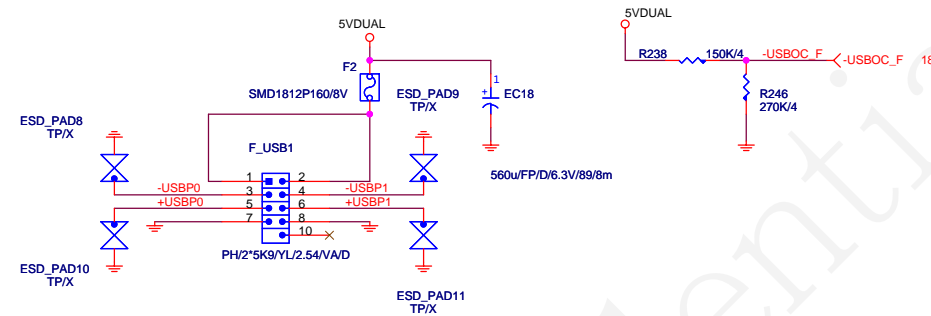
18 +USBP1 ↔ +USBP1
18 -USBP1 ↔ -USBP1

18 +USBP0 ↔ +USBP0
18 -USBP0 ↔ -USBP0

90欧姆:[15/4.5/7.5/4.5/15]

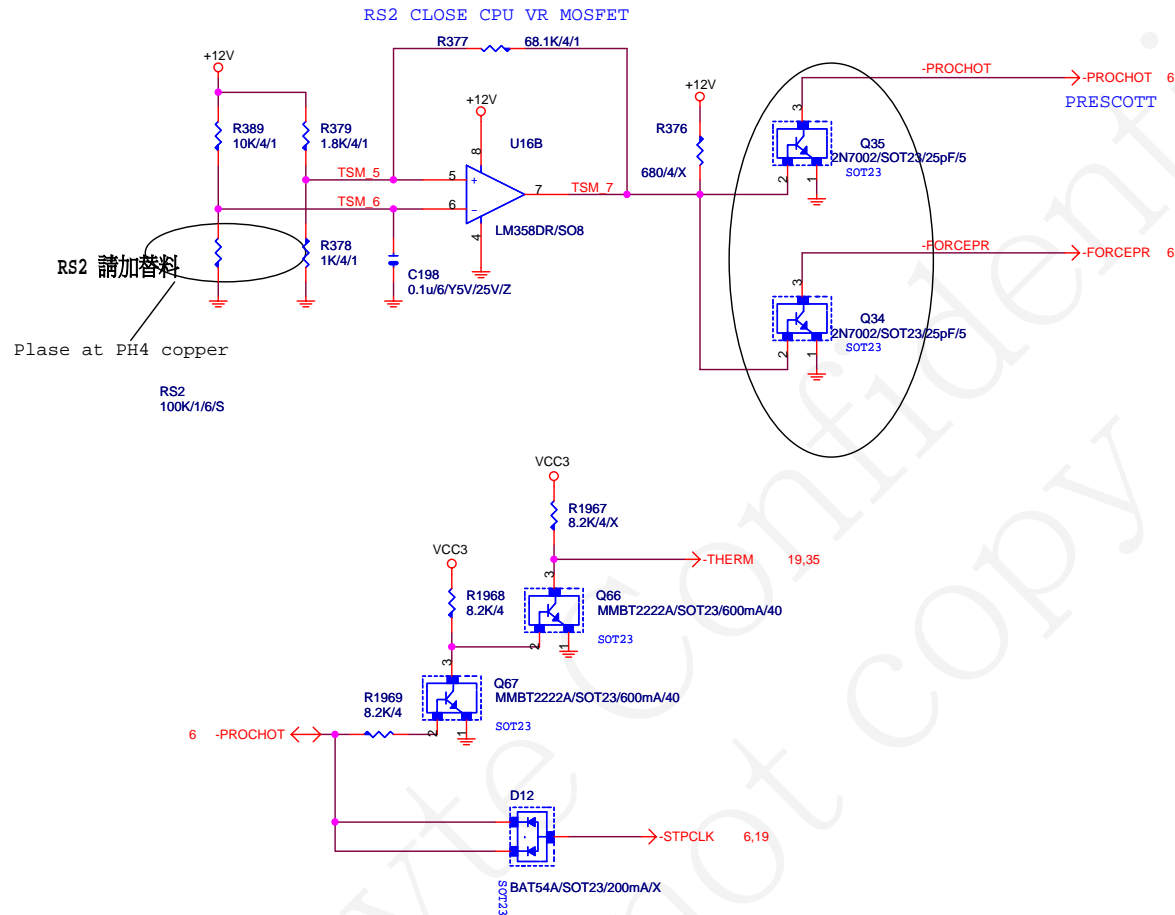
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18 +USBP3 ↔ +USBP3

18 -USBP2 ↔ -USBP2
18 +USBP2 ↔ +USBP2



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Title			
FRONT USB CONNECTOR			
Size	Document Number	Rev	
B	P31-DS3L	1.0	
Date: Friday, July 13, 2007		Sheet 29	of 40

**Intel Confidential**

Title

FAN CONTROL

Size

Document Number

P31-DS3L

Rev

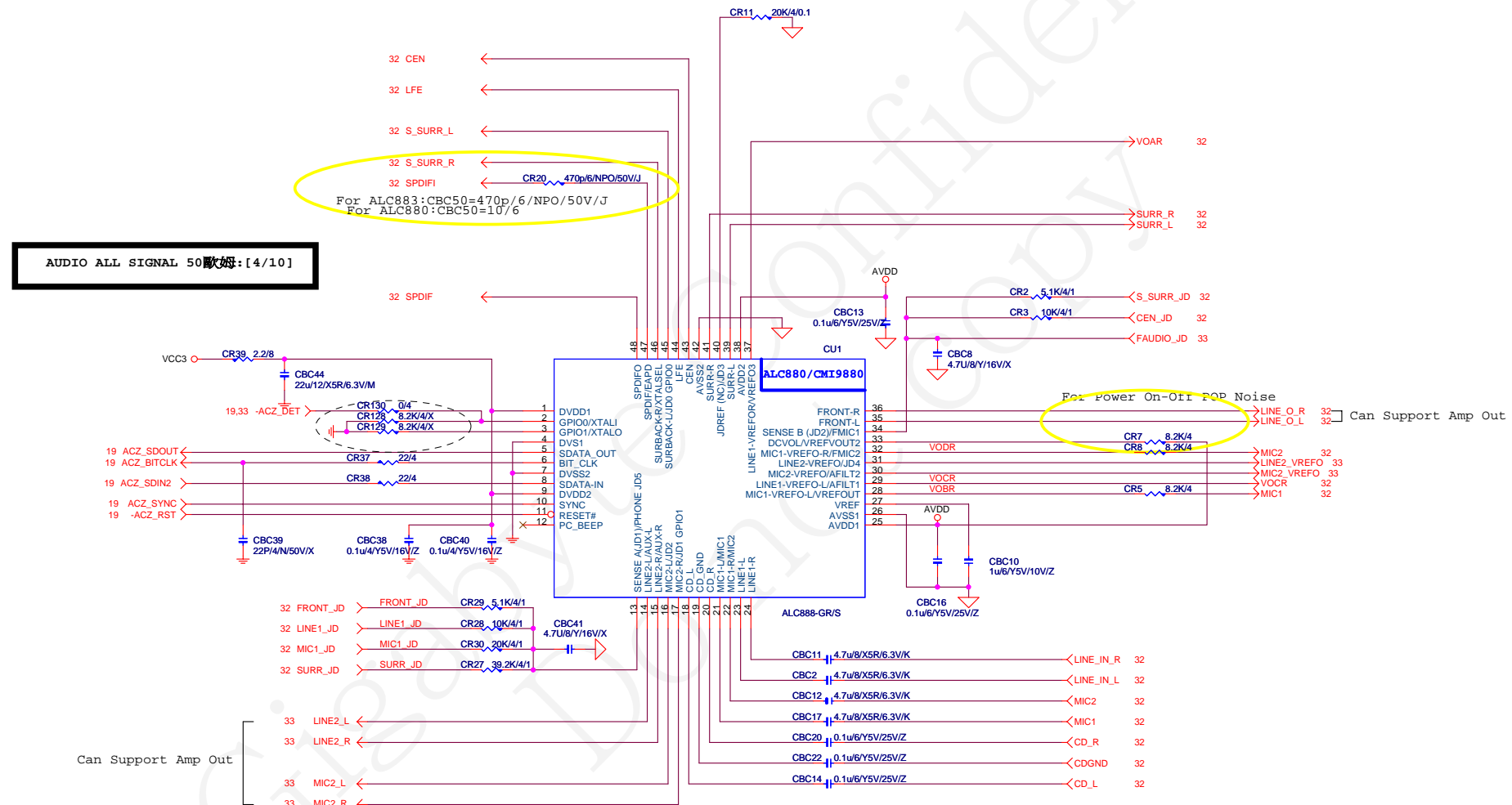
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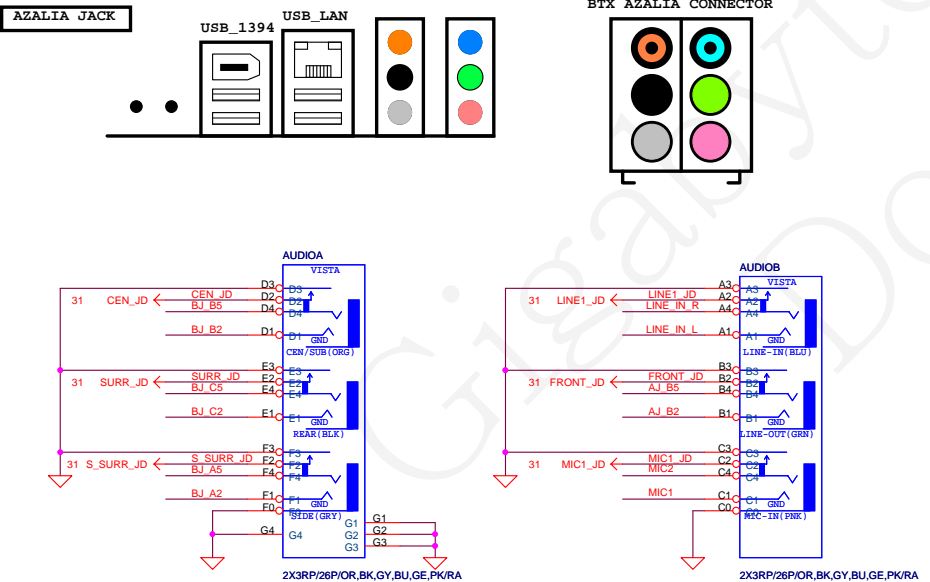
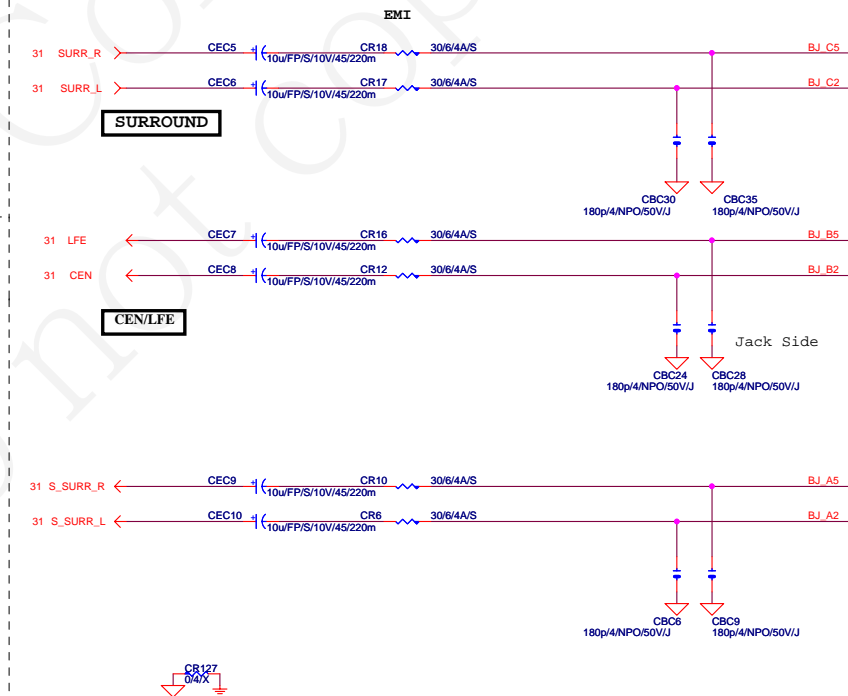
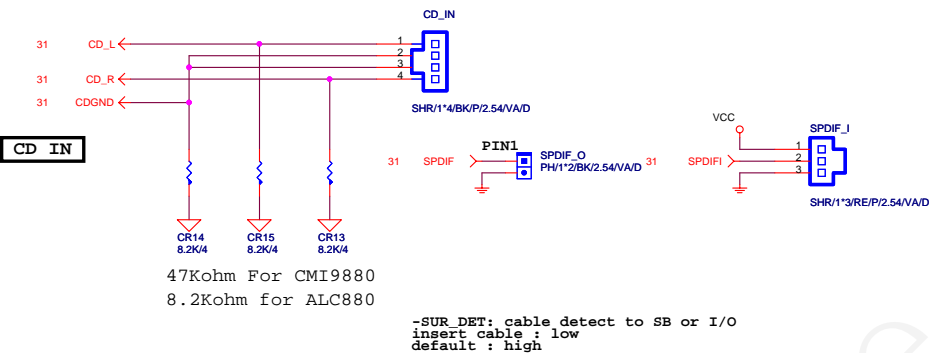
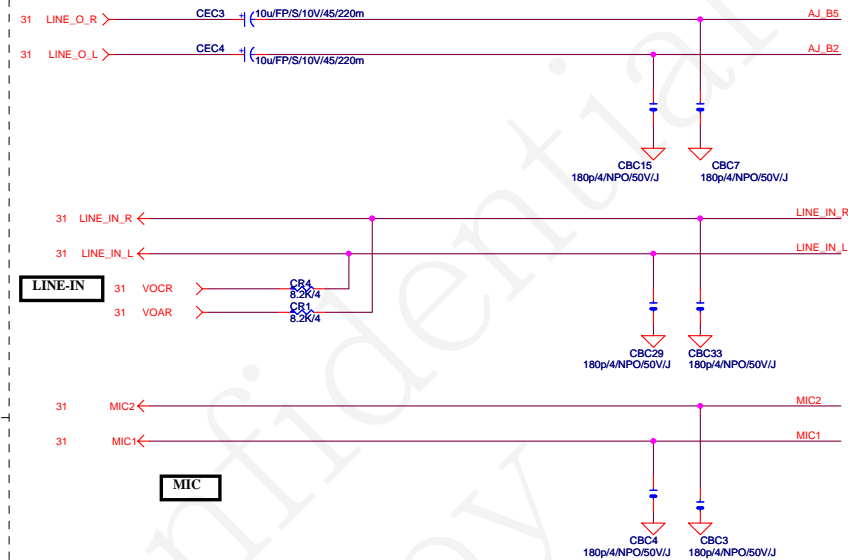
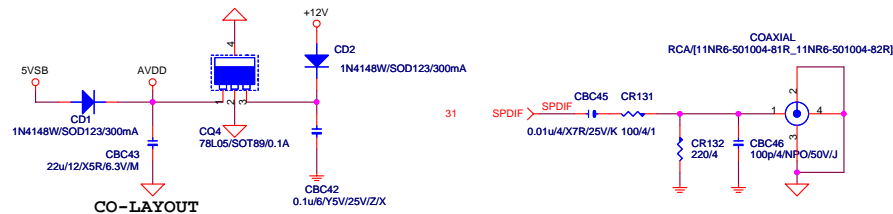
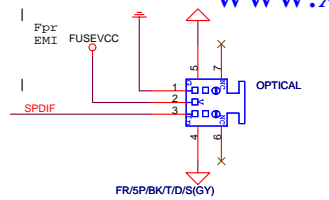
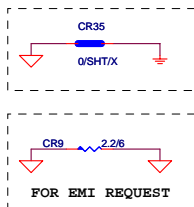
Date:

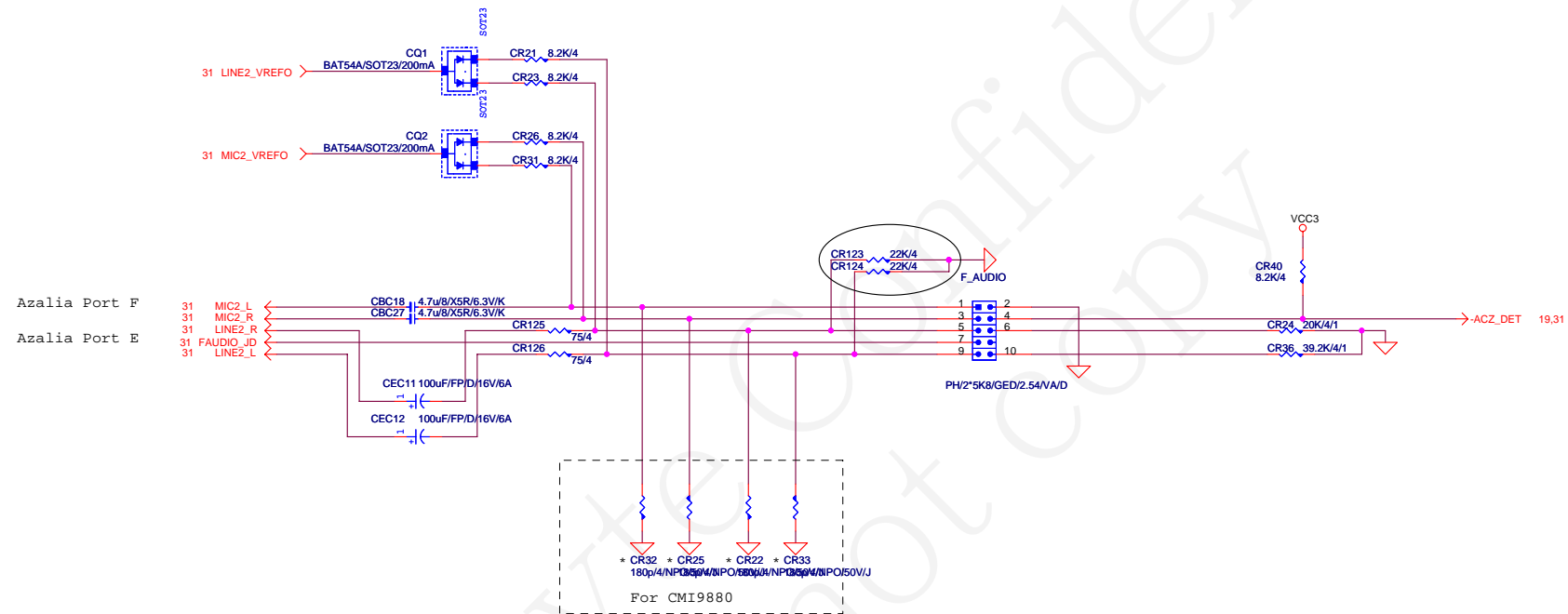
Friday, July 13, 2007

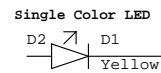
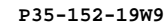
Sheet

30 of 40



LINE IN
FRONT OUT

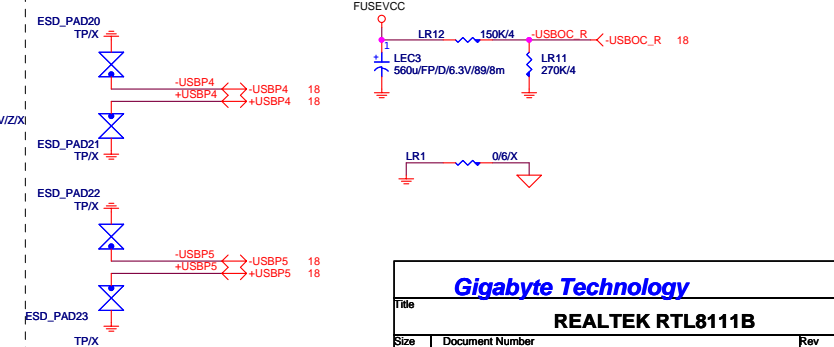




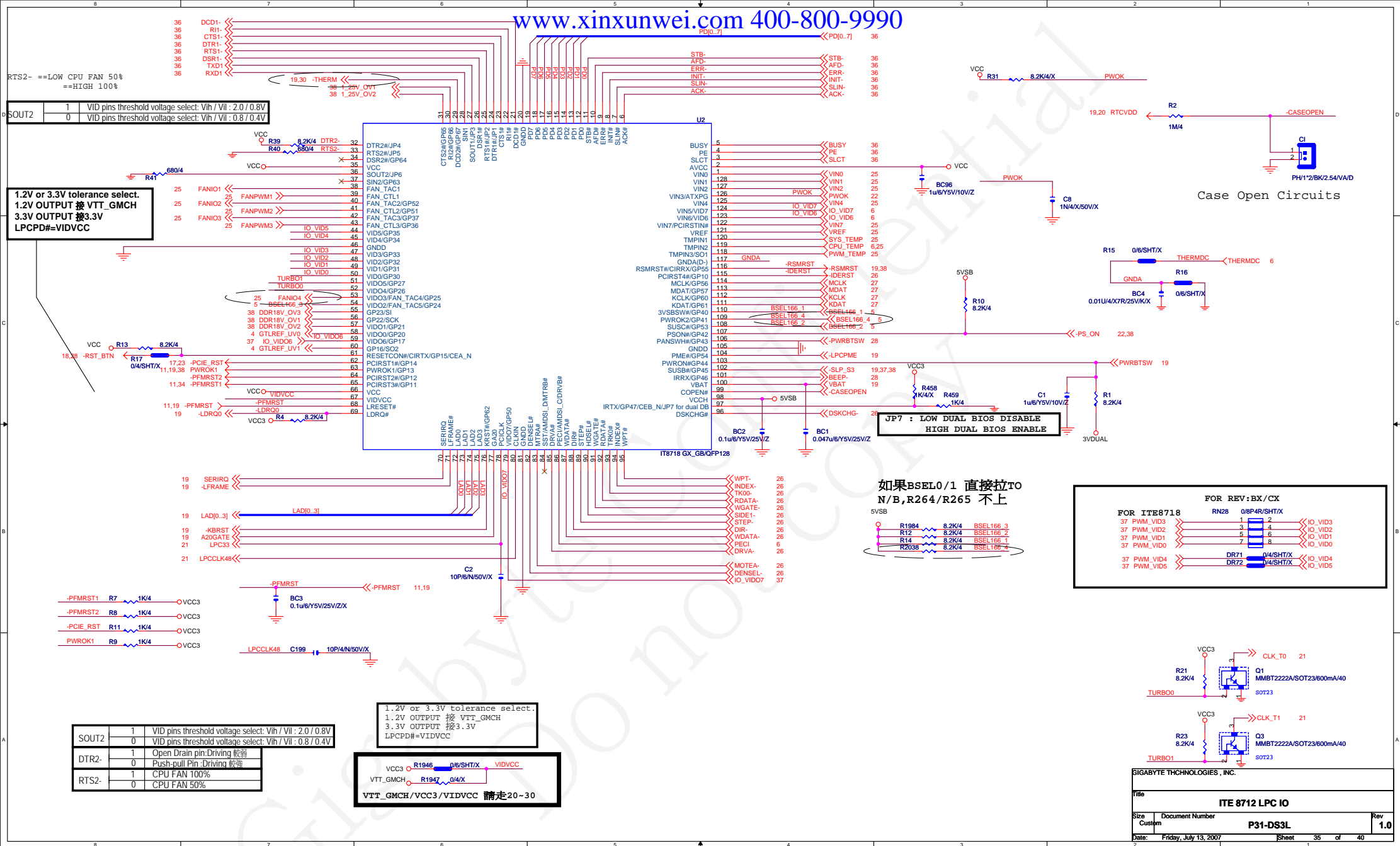
	RTL8111B / RTL8101E	RTL8111C	
AVDD33	3.3V	3.3V	
AVDD18	1.8V	1.2V	
EVDD18	1.8V	1.2V	
DVDD15	1.5V	1.2V	

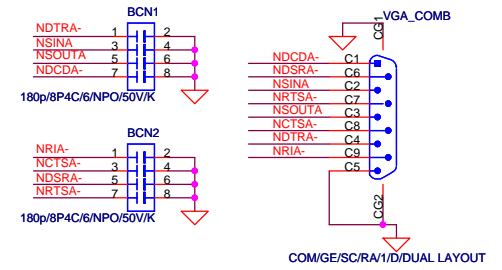
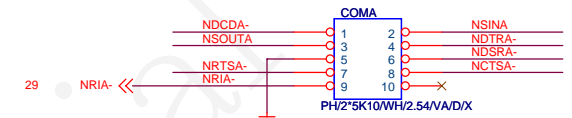


LAN 100 歐姆:[30/4/8/4/30] FOR B 製程



GIGABYTE TECHNOLOGIES, INC.			
Title			
ITE 8712 LPC IO			
Size	Document Number		Rev
Custom	P31-DS3L		1.0
Date:	Friday, July 13, 2007	Sheet	35 of 40

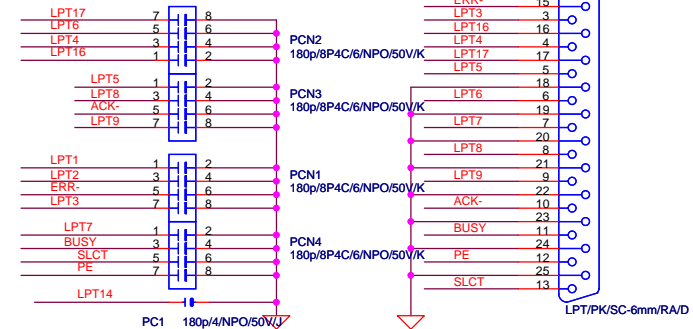
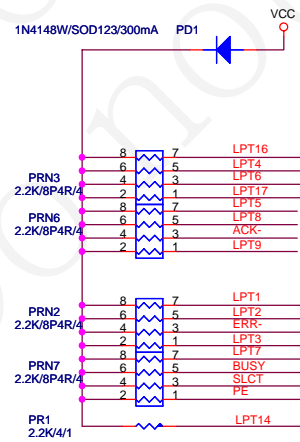
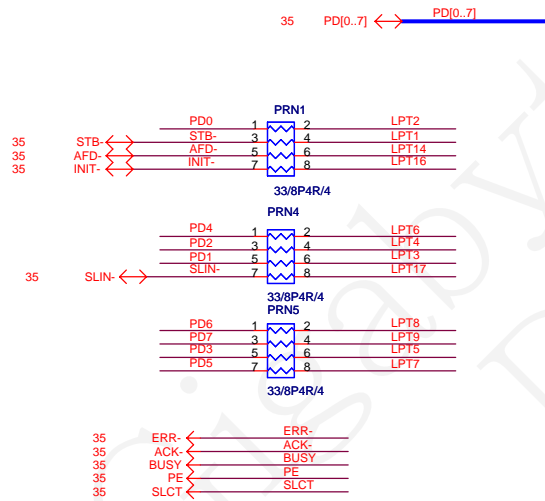


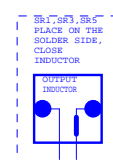
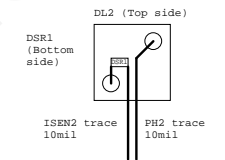
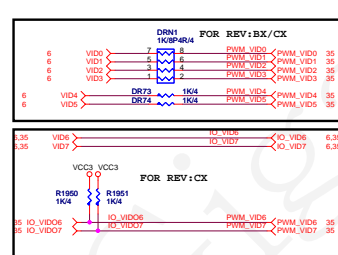
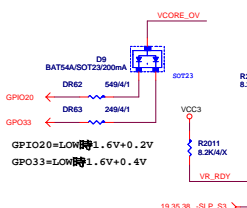
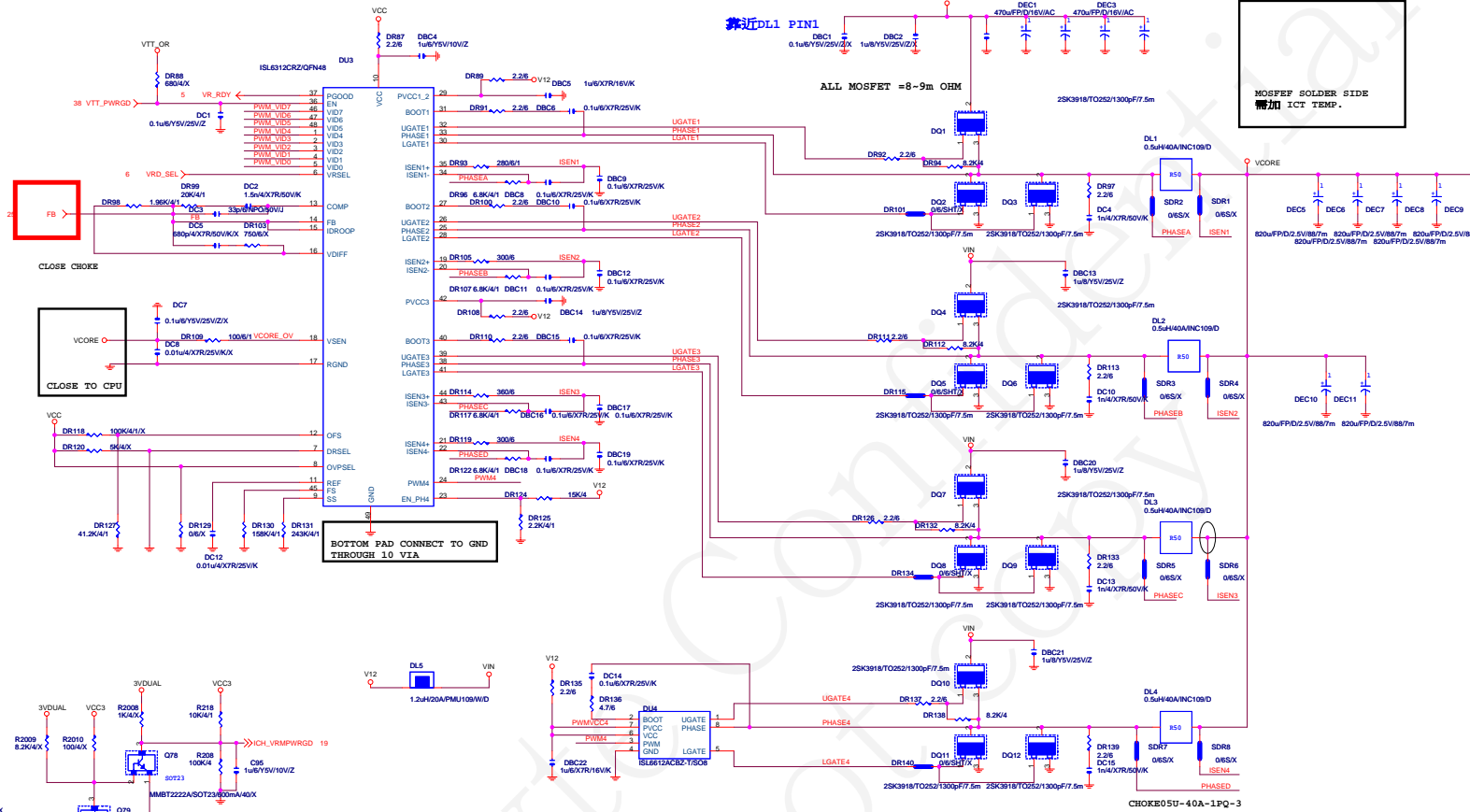


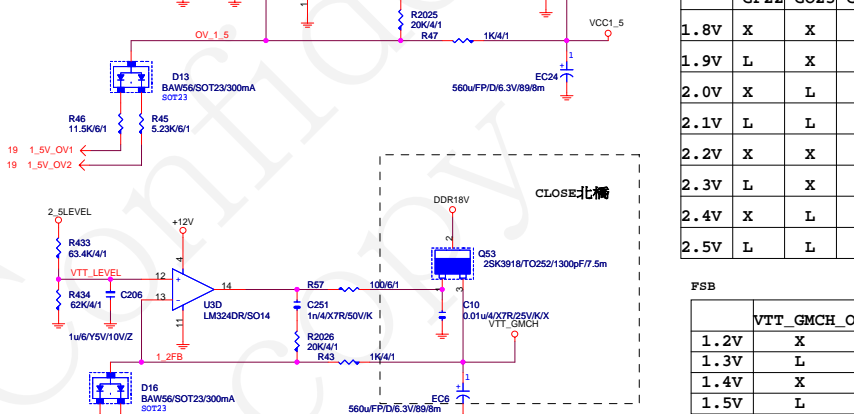
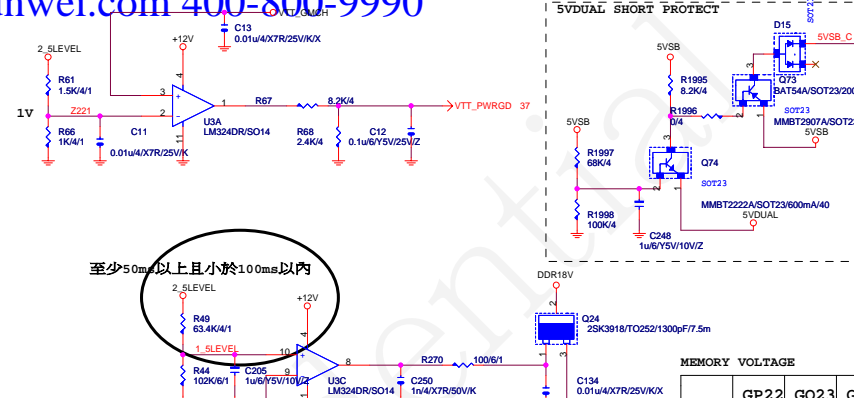
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VCC3 C232 0.1u/4/Y5V/16V/Z

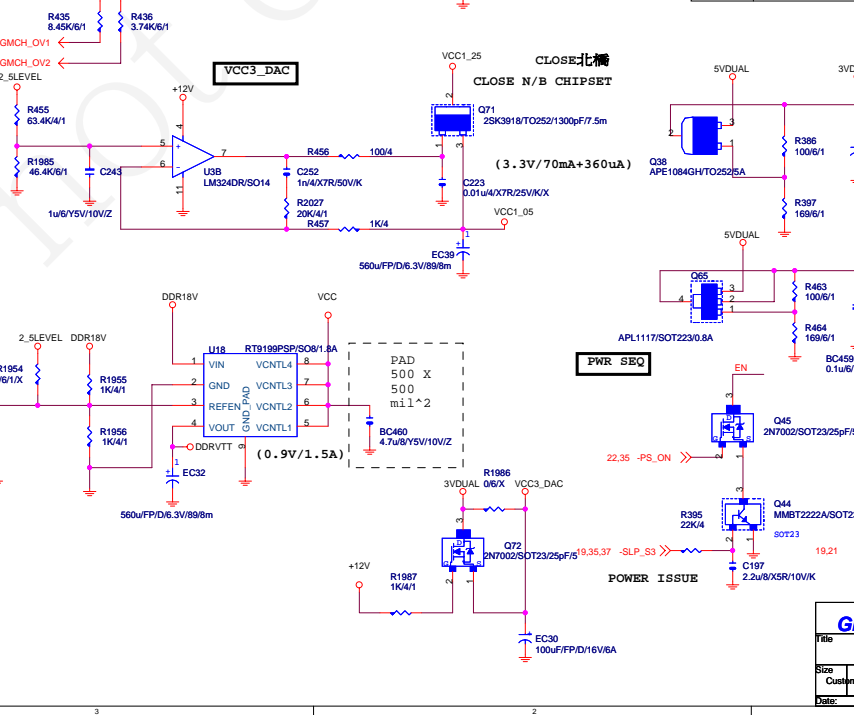
FUSEVCC C233 0.1u/4/Y5V/16V/Z







	VTT_GMCH_OV1	VTT_GMCH_OV2
1.2V	X	X
1.3V	L	X
1.4V	X	L
1.5V	L	L



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 THCNOLOGIES , INC.

Title			GPIO/RESET TABLE	
Size	Document Number	P31-DS3L		Rev
Custom				1.02
Date:	Friday, July 13, 2007	Sheet	40	of 40