

BLOCK DIAGRAM

INTEL Pentium4 (775)

VICORE = 1.75V / SLEEP: 1.3V
VCC3

PAGE 4, 5, 6, 7

PWM/OTHER POWER

VID0-4

VICORE = 1.75V (60-110MHZ) / SLEEP: 1.3V
5VSB-12V,+12V,VCC,VCC3,3VDUAL
VTI_DDR2_5VSTR

PAGE 31, 32, 33

CLOCK GENERATOR

CKVDD = 3.3V

PAGE 18

**GMCH
BROOKDALE-G-DDR**

VICORE = 1.75V / SLEEP: 1.3V
2_5VSTR = 2.5V(MEMORY,SUSPEND POWER)
VDDQ = 1.5V (AGP POWER 4X, HUBLINK)

PAGE 8, 9, 10

DDR SDRAM DIMM X 3

2_5VSTR = 2.5V(MEMORY,SUSPEND POWER)
VTI_DDR = 1.25V

PAGE 11, 12, 13

AGP SLOT 4X

VDDQ = 1.5V (AGP POWER 4X)
VCC3 = 3.3V
+12V = 12V
3VDUAL = 3.3V
VCC = 5V

PAGE 14

GAD0-31
ADSTB0, ADSTB0-
ADSTB1, ADSTB1-
SBA0-7
SBSTB, SBSTB-
GCBE0-3-
ST0-2

AGP BUS

MAA0-14
MAA_CPC1-5
MAB_CPC1-5
MDD0-63
-DQSD0-7
DM0-7

ICH4

VCC25 = 2.5V(I/O, MEMORY, VLINK)
3VDUAL = 3.3V(SUSPEND POWER)
VCC3 = 3.3V
RTC_VDD = 3.3V

PAGE 15, 16

FRONT USB CONN.

PAGE 23

IDE Primary and Secondary

VCC = 5V

PAGE 25

FWH

VCC = 5V
VCC3 = 3V

PAGE 17

PCI SLOT 1, 2, 3, 4, 5

+12 = 12V
+12 = 12V
VCC = 5V
VCC3 = 3V
3VDUAL = 3V

PAGE 19, 20, 21

REALTEK 8110S LAN

+12 = 12V
+12 = 12V
VCC = 5V
VCC3 = 3V
3VDUAL = 3V

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LPC I/O ITE8712
FDD IR/CIR S_IRQ

VCC = 5V
VCC3 = 3V

PAGE 22

I/O PORTS :
COMA COMB LPT PS2

PAGE 27

FRONT PANEL /FANS

VCC = 5V
5VSB = 5V
+12 = 12V
5VCC = 5V

PAGE 24

REAR USB PORTS

VCC = 5V
5VSB = 5V
5VUSB = 5V

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HLO-10
CONTROL BUS

HUB LINK

PCI BUS

AC97 LINK

LPC BUS

AGPUSB+ / -

AMRUSB+ / -

AC97 CODEC ALC850

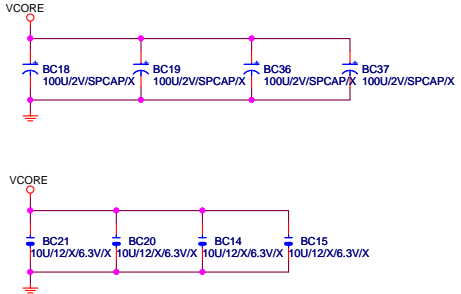
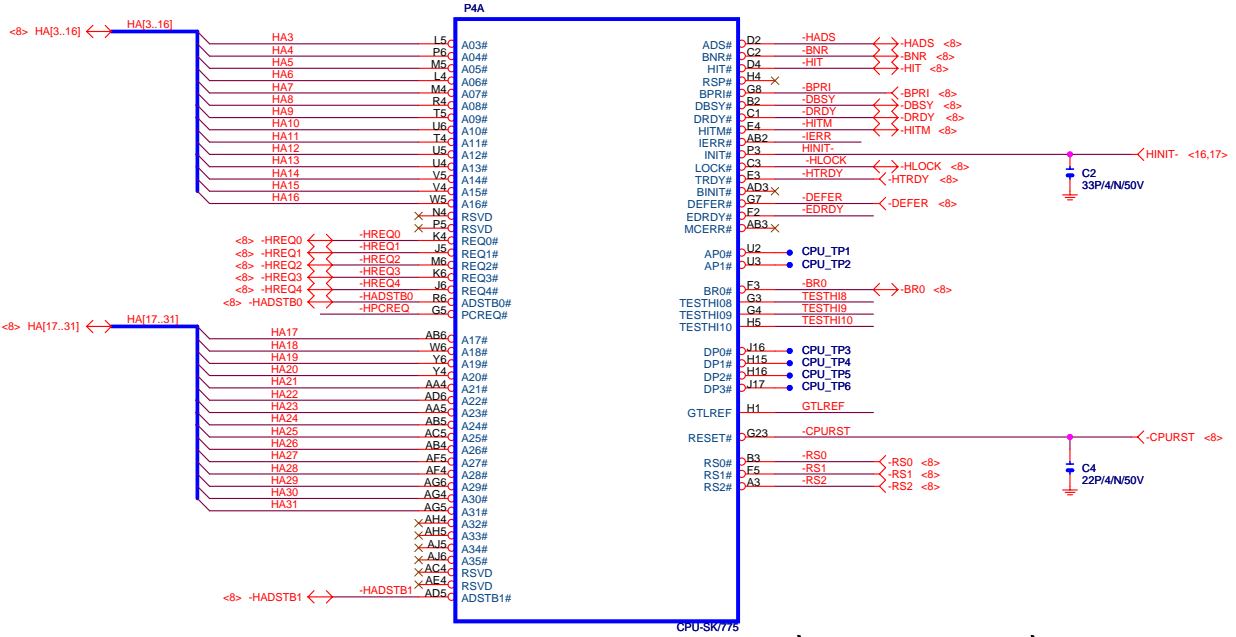
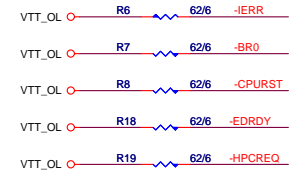
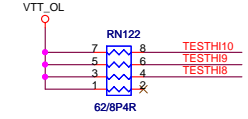
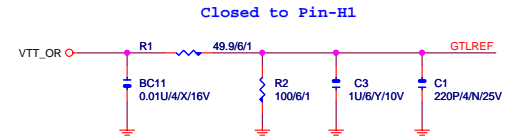
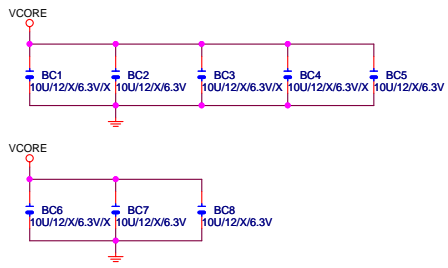
+12V = 12V
VCC3 = 3.3V
VCC = 5V
VDD = 5V

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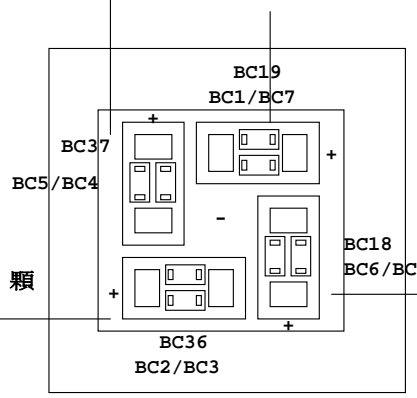
AUDIO PORTS : FRONT AUDIO
LIN_OUT LINE_IN MIC
TELE CD_IN

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Size	Document Number	Rev
Custom	81845GE775-G	1.0
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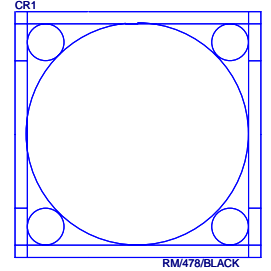


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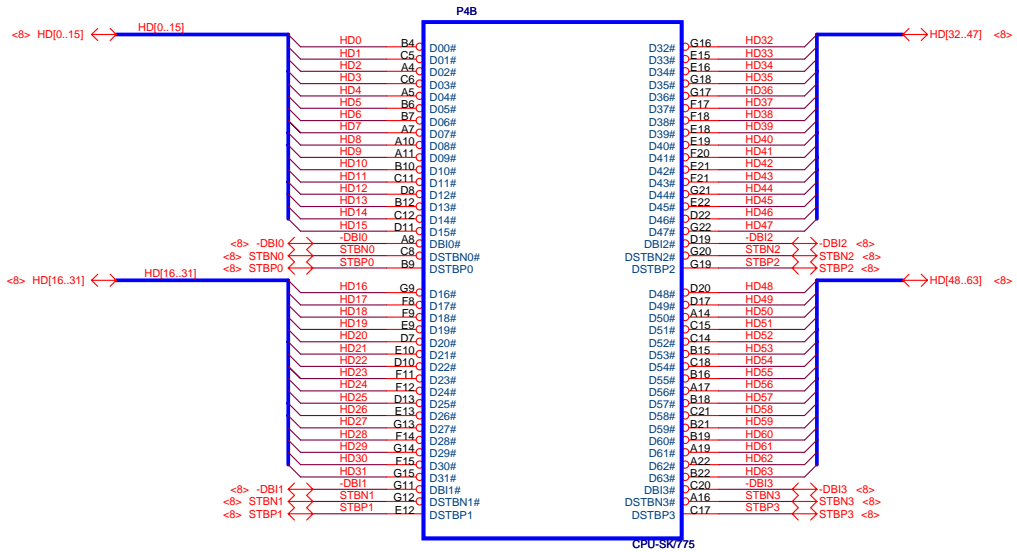


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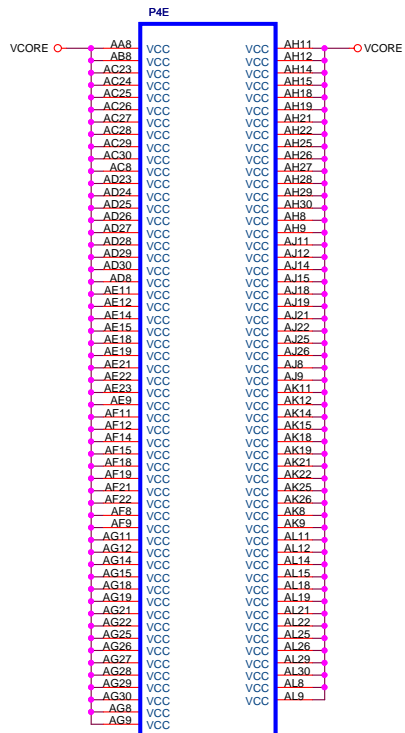
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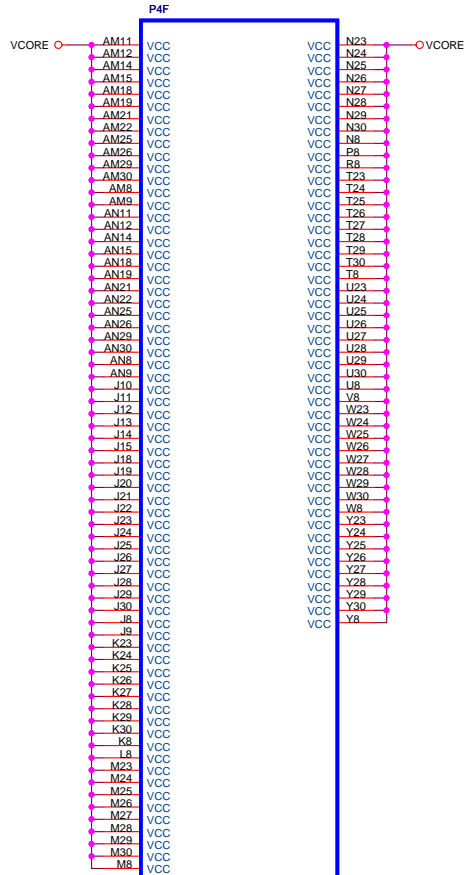
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			Rev 1.0



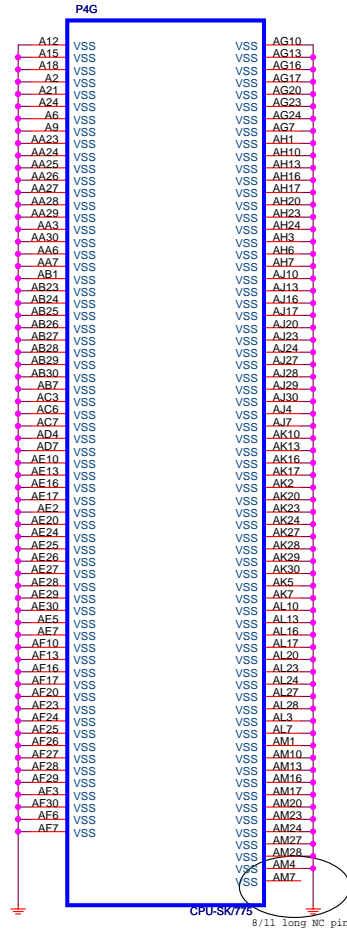
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			Rev 1.0



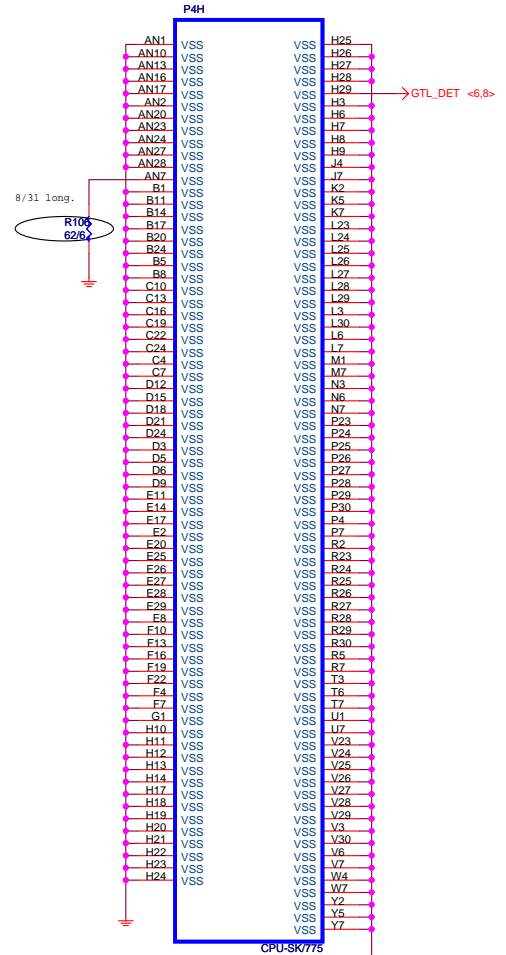
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CPU-SK775



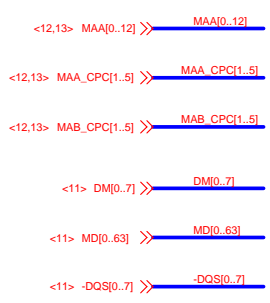
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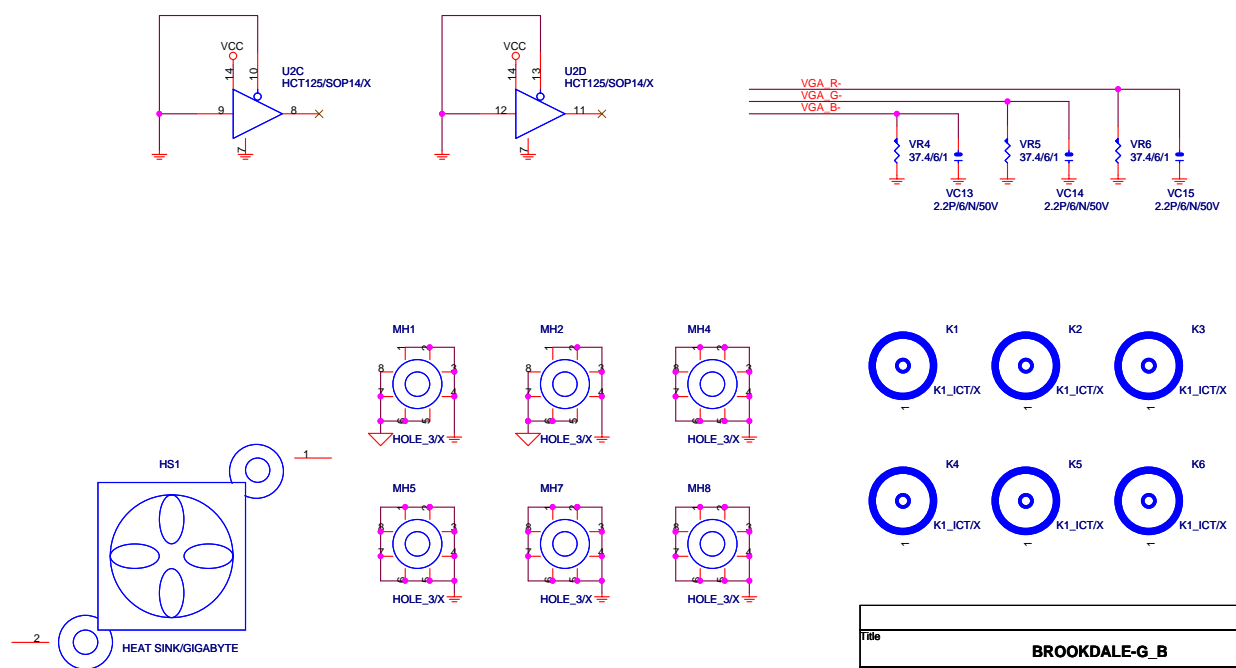
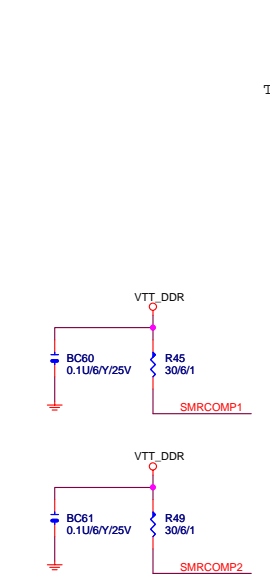
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GIGABYTE

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UHC			
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MAA_CPC1	AN25	SMAA1	SDM0
MAA_CPC2	AP23	SMAA2	
MAA3	AK20	SMAA3	SDQ0
MAA_CPC4	AL19	SMAA4	SDO1
MAA_CPC5	AL17	SMAA5	SDO2
MAA6	AP19	SMAA6	SDO3
MAA7	AP17	SMAA7	SDO4
MAA8	AN17	SMAA8	SDO5
MAA9	AK26	SMAA9	SDO6
MAA10	AK16	SMAA10	SDQ7
MAA11	AL15	SMAA11	
MAA12	AN15	SMAA12	
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MAB_CPC5	AK18	SMAB5	
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<12,13> DCLK5	DCLK5	AN8	SDQ29
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VTT_DDR	NC	NC	SDQ41
VTT_DDR	NC	NC	SDQ42
VTT_DDR	NC	NC	SDQ43
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VTT_DDR	NC	NC	SDQ45
VTT_DDR	NC	NC	SDQ46
VTT_DDR	NC	NC	SDQ47
VTT_DDR	NC	NC	SDQS6
VTT_DDR	NC	NC	SDM6
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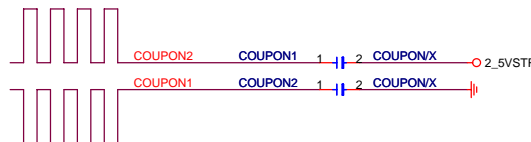
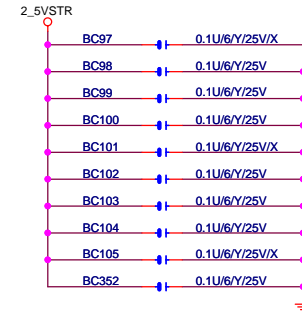
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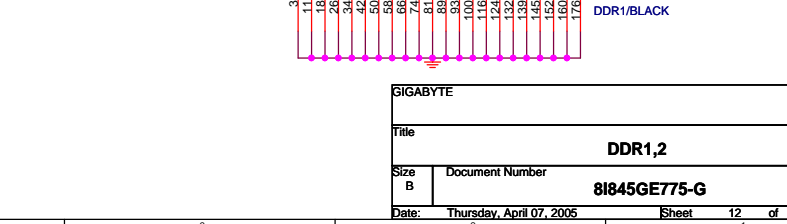
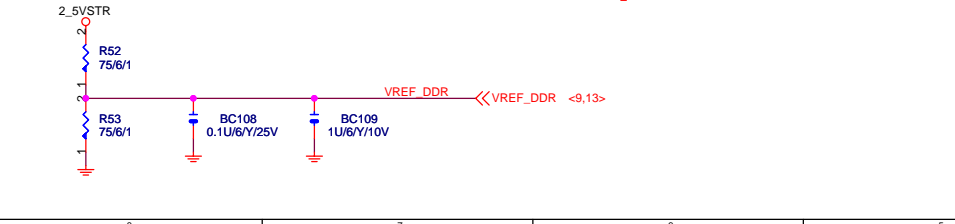
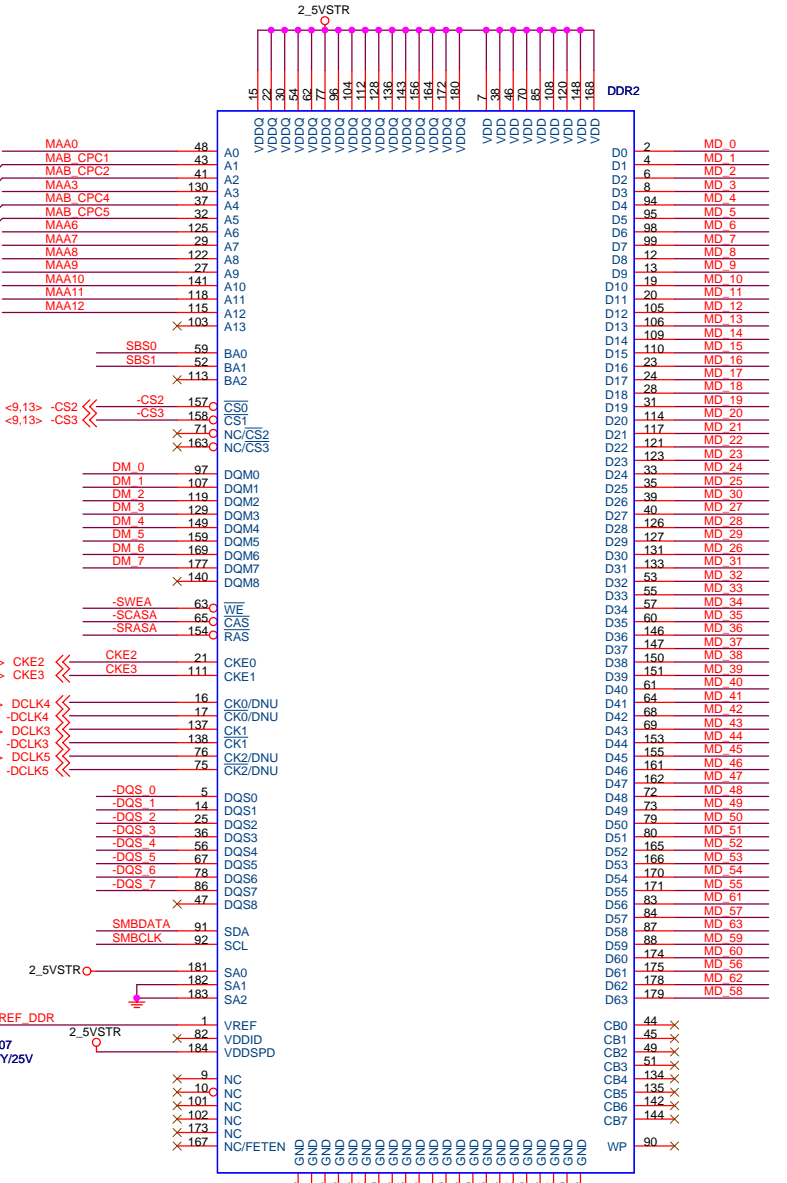
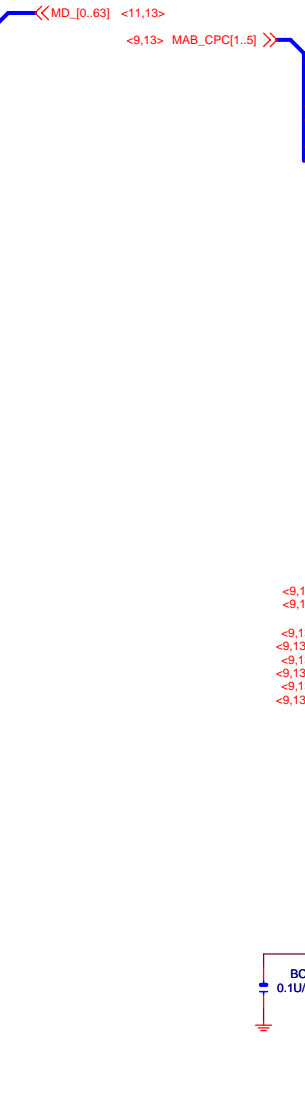
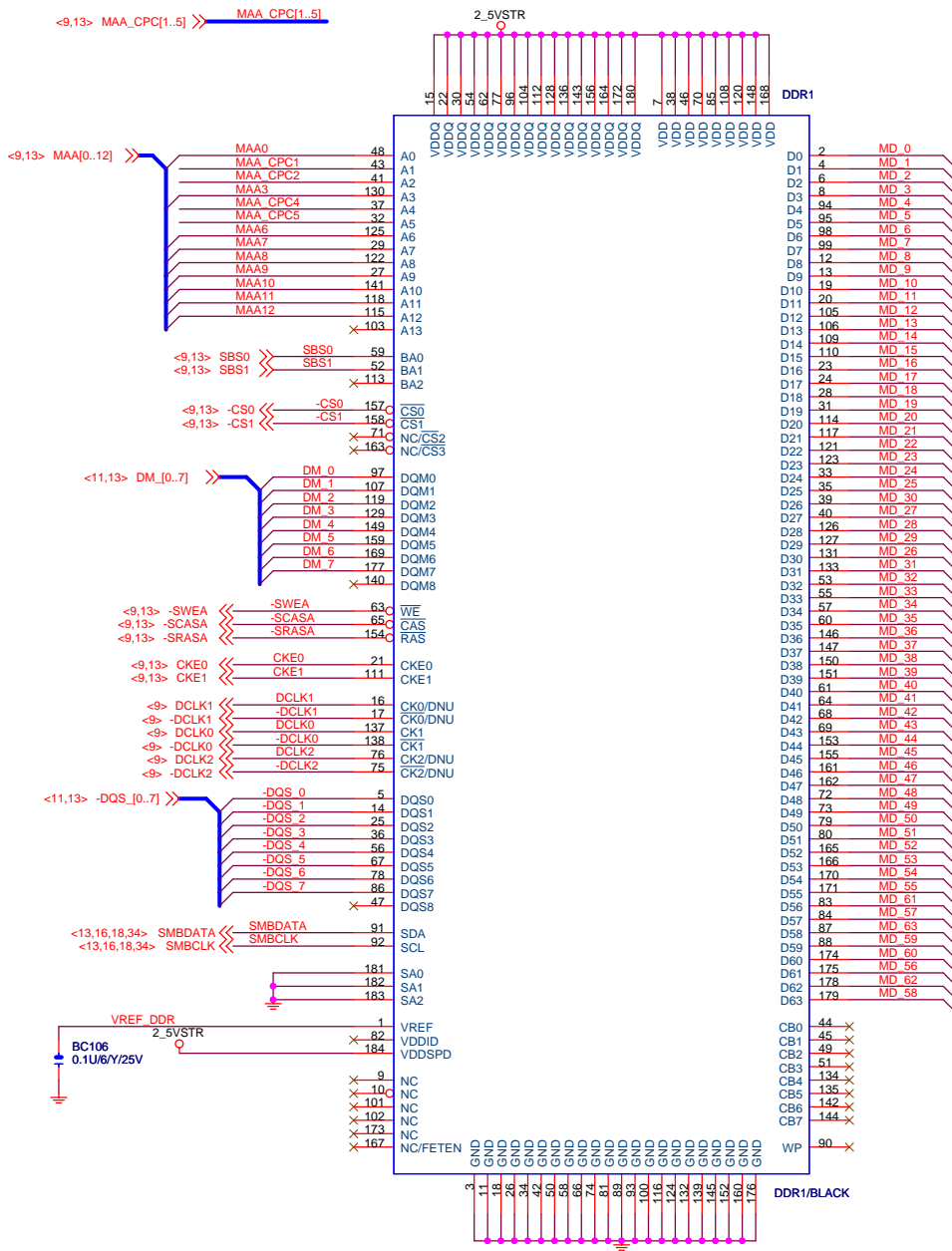
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MD 6		7	8		MD6
MD 0	RN5	1	2	0/8P4R/X	MD0
MD 4		3	4		MD4
MD 5		5	6		MD5
MD 1		7	8		MD1
MD 12	RN6	1	2	0/8P4R/X	MD12
MD 13		3	4		MD13
-DQS 1		5	6		-DQS1
DM 1		7	8		DM1
MD 14	RN7	1	2	0/8P4R/X	MD14
MD 15		3	4		MD15
MD 10		5	6		MD10
MD 11		7	8		MD11
-DQS 2	RN9	1	2	0/8P4R/X	-DQS2
DM 2		3	4		DM2
MD 18		5	6		MD18
MD 22		7	8		MD22
MD 29	RN11	1	2	0/8P4R/X	MD29
MD 25		3	4		MD25
-DQS 3		5	6		-DQS3
DM 3		7	8		DM3
MD 26	RN12	1	2	0/8P4R/X	MD26
MD 30		3	4		MD30
MD 27		5	6		MD27
MD 31		7	8		MD31
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MD 36		3	4		MD36
MD 33		5	6		MD33
MD 37		7	8		MD37
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MD 41		3	4		MD41
DM 5		5	6		DM5
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MD 49		3	4		MD49
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MD 51		3	4		MD51
MD 60		5	6		MD60
MD 61		7	8		MD61
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DM 7		5	6		DM7
-DQS 7		7	8		-DQS7
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MD 62		7	8		MD62

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MD 16		3	4		MD16
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MD 21		7	8		MD21
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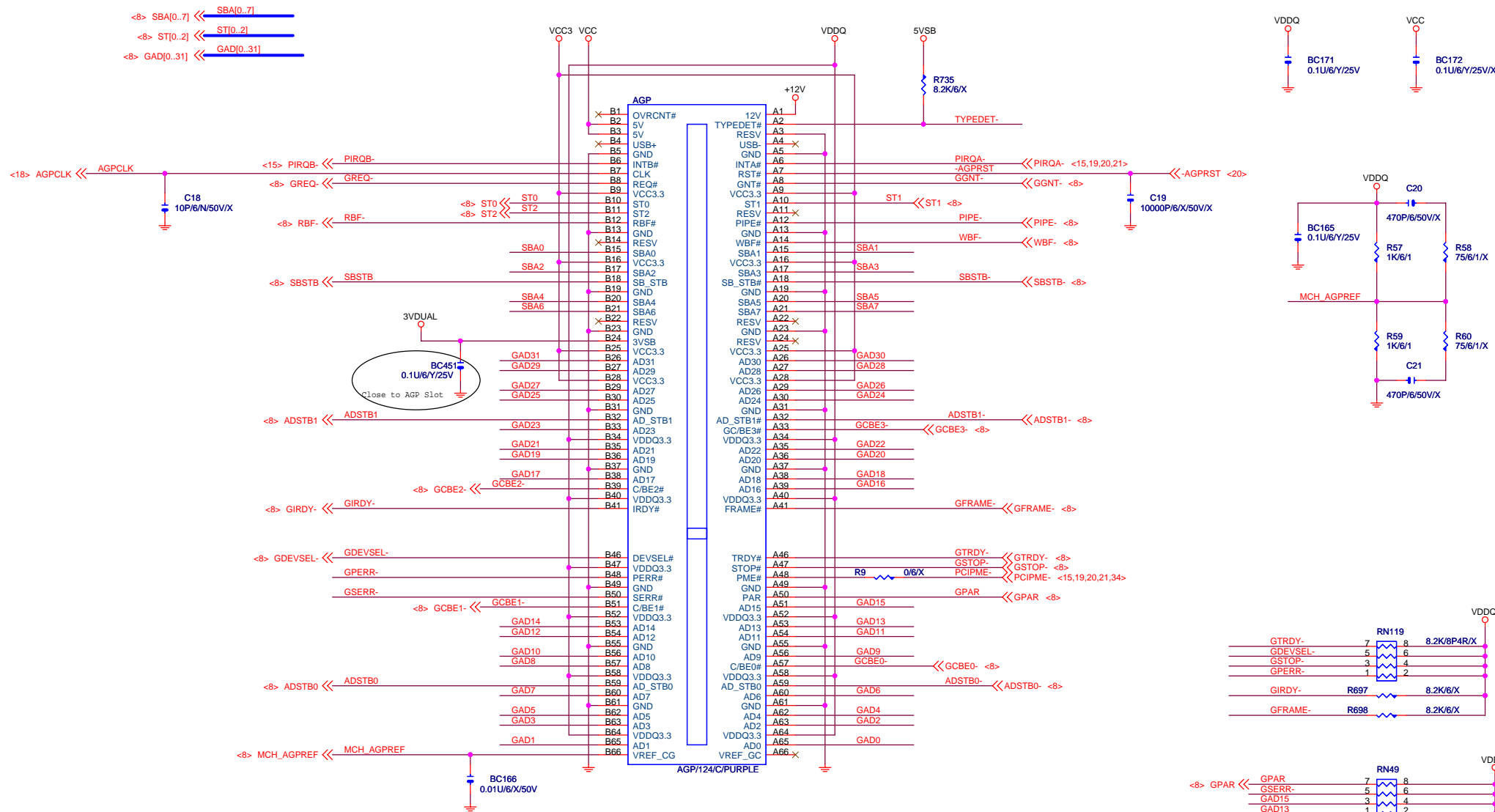
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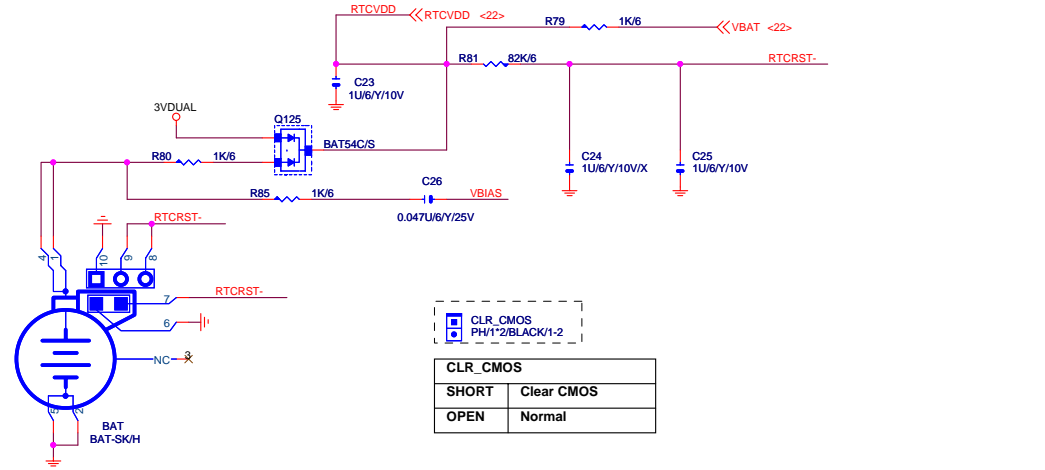
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DDR SERIAL TERM.			
Size	Document Number	81845GE775-G	Rev
B			1.0
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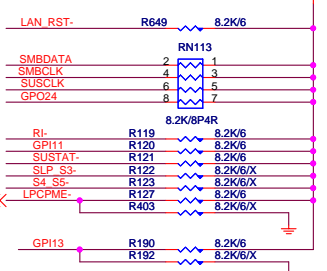
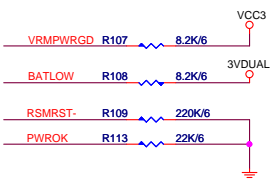
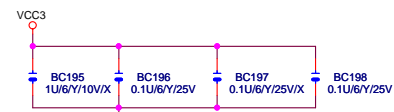
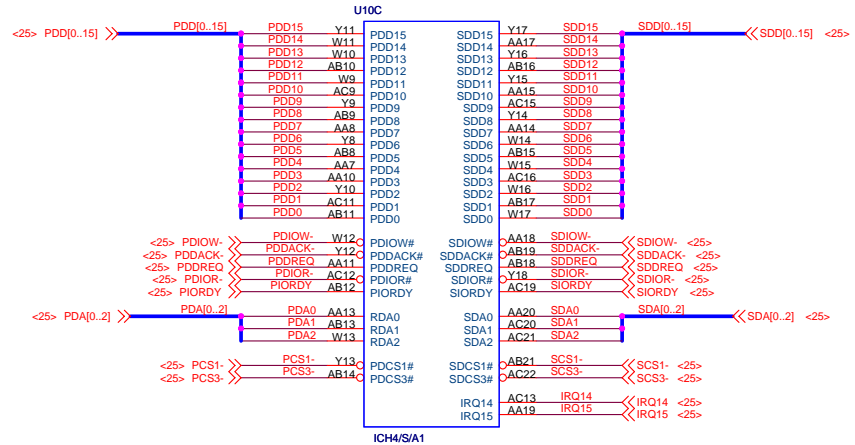
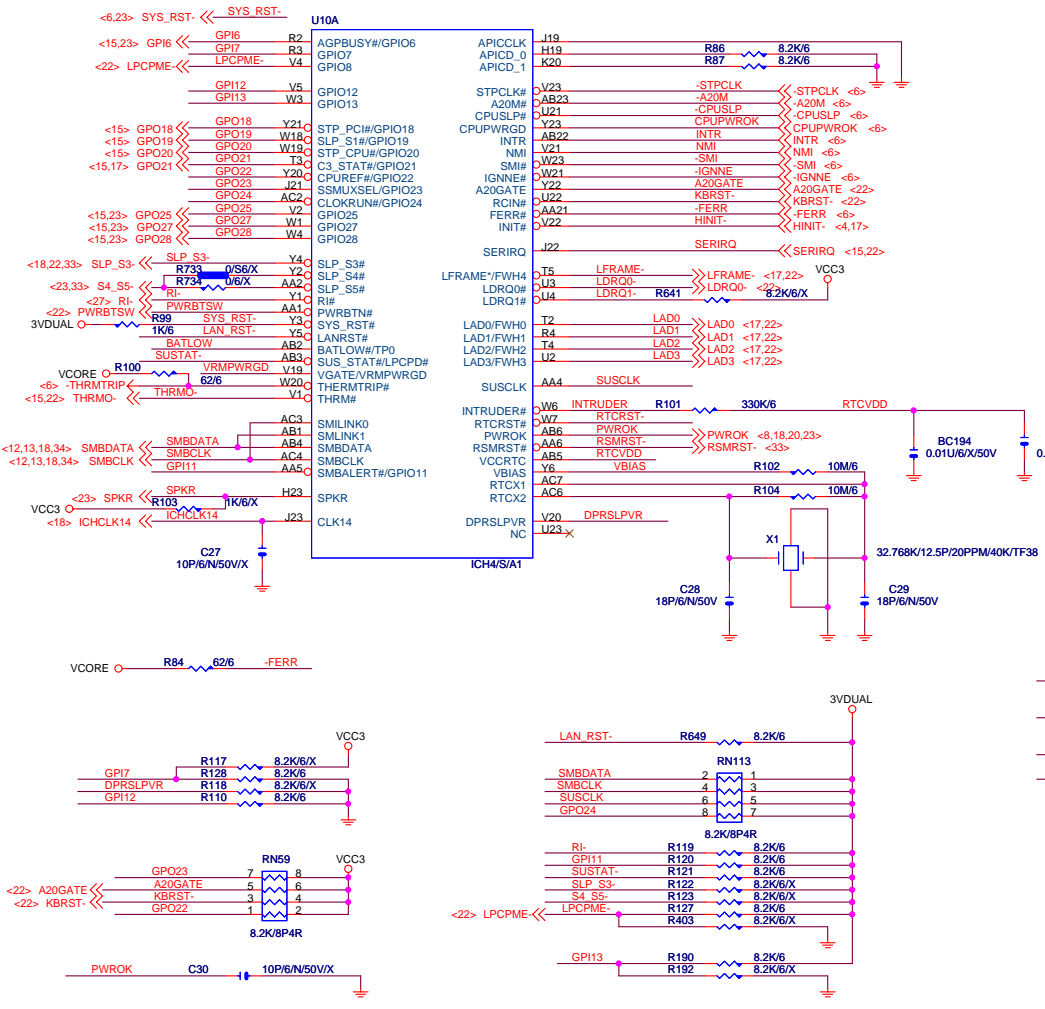
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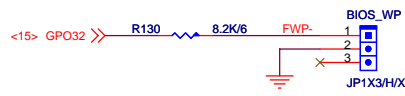
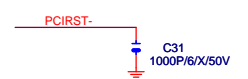
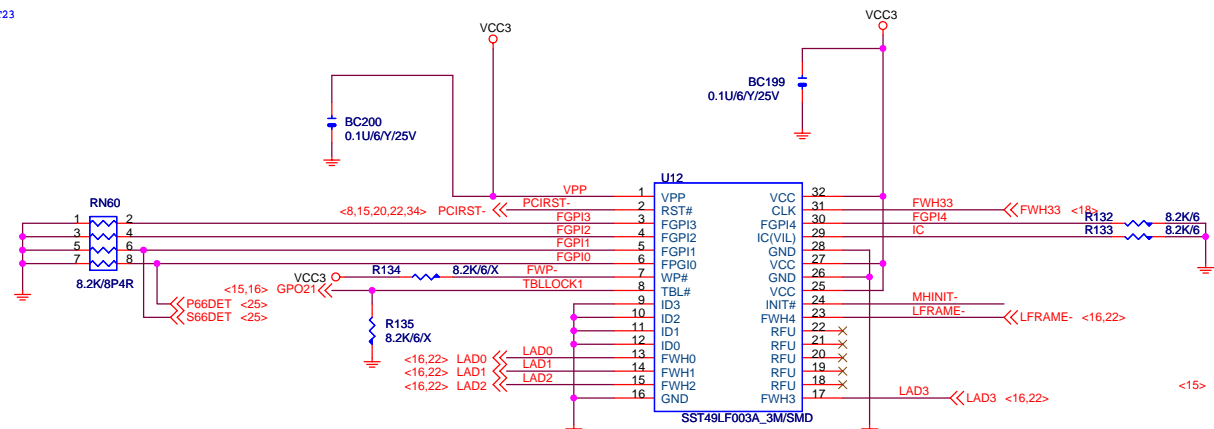
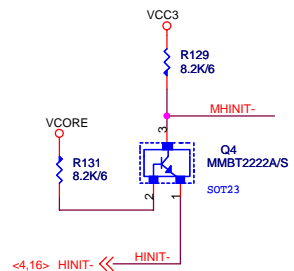
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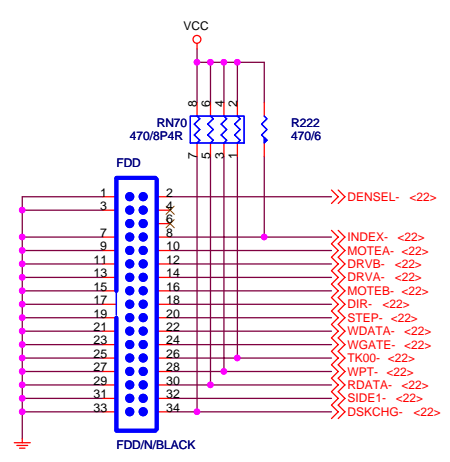
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SHORT	Clear CMOS
OPEN	Normal



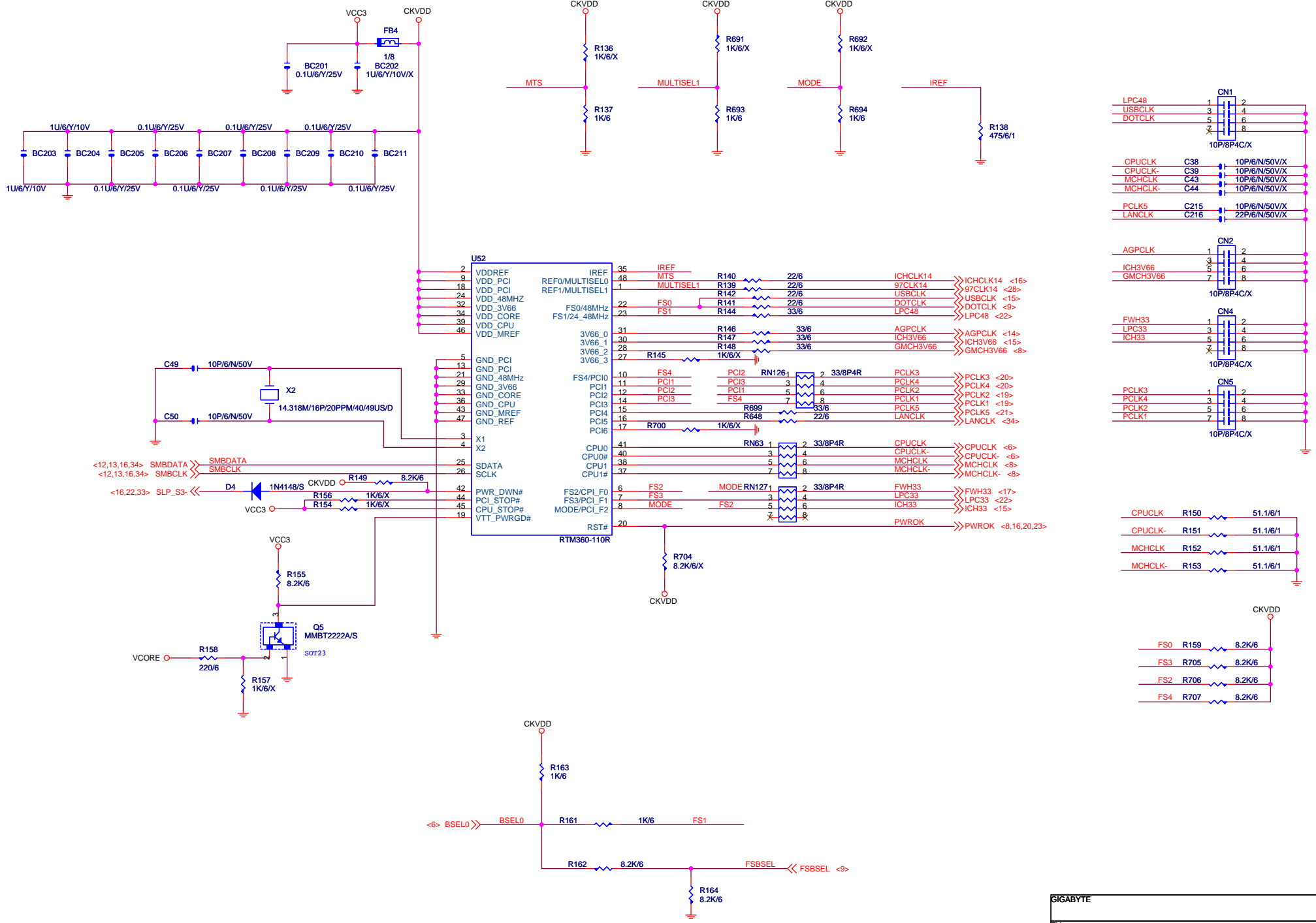
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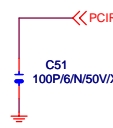
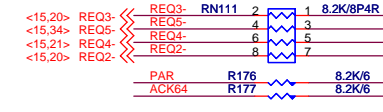
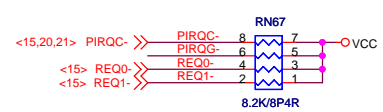
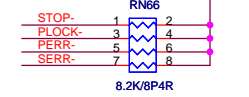
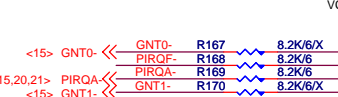
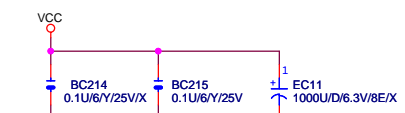
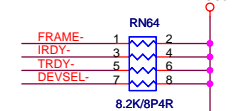
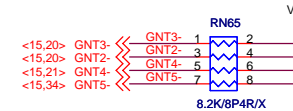
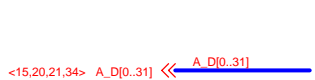
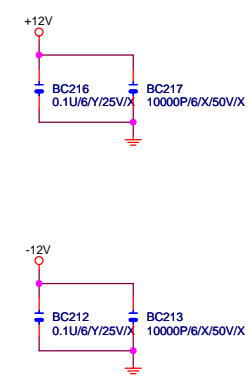
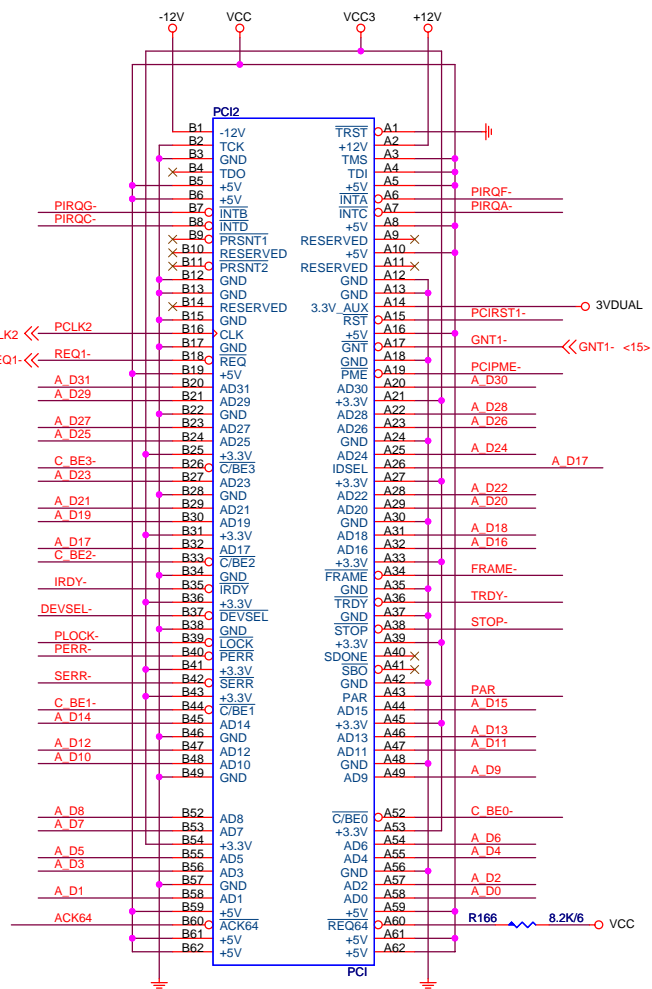
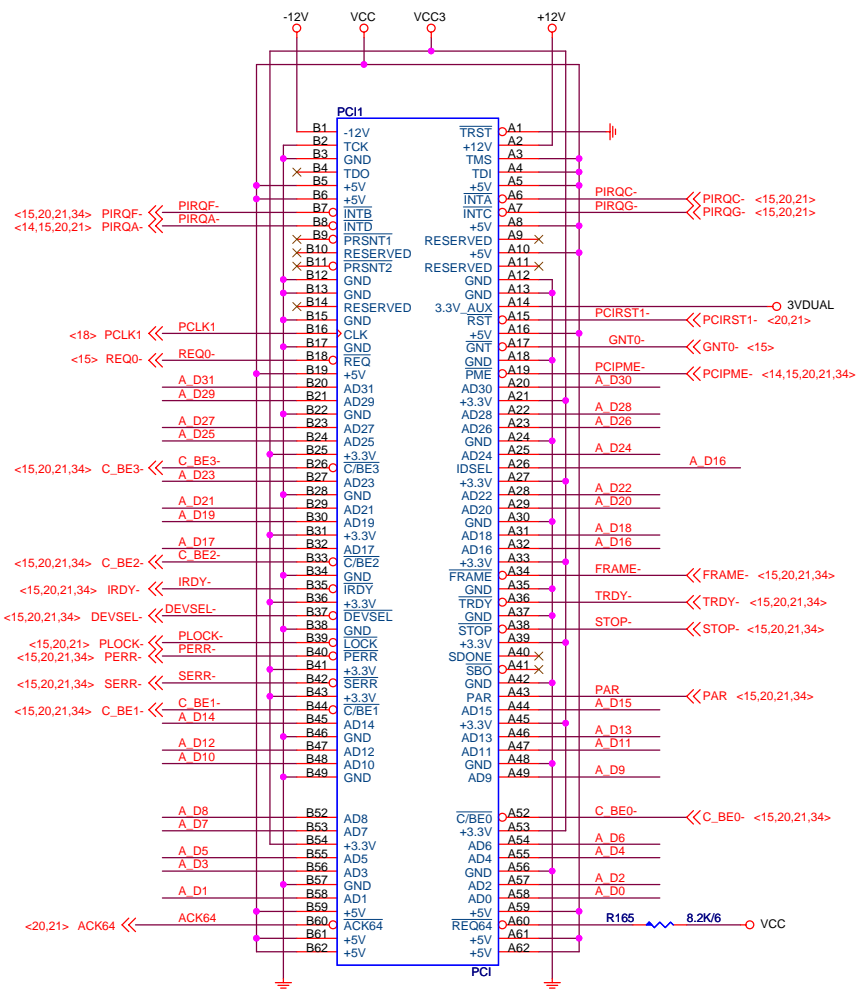


1-2 : WRITE PROTECT
2-3 : DISABLE

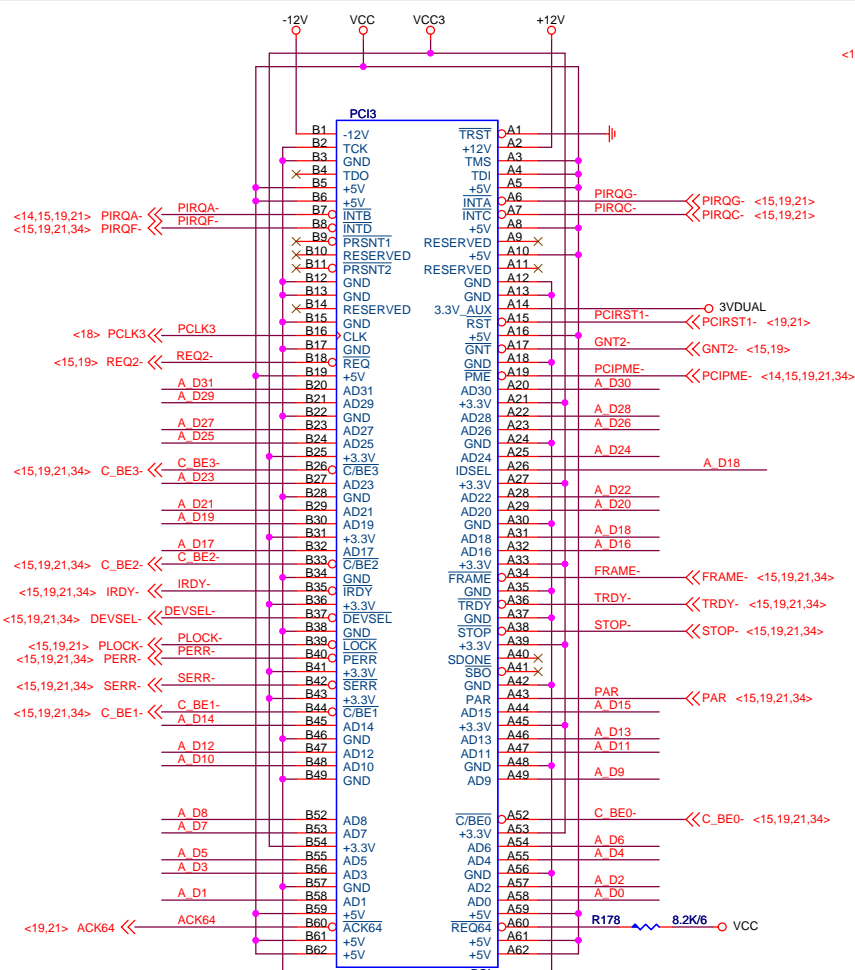


GIGABYTE		
Title		
FWH		
Size B	Document Number	Rev
	81845GE775-G	1.0
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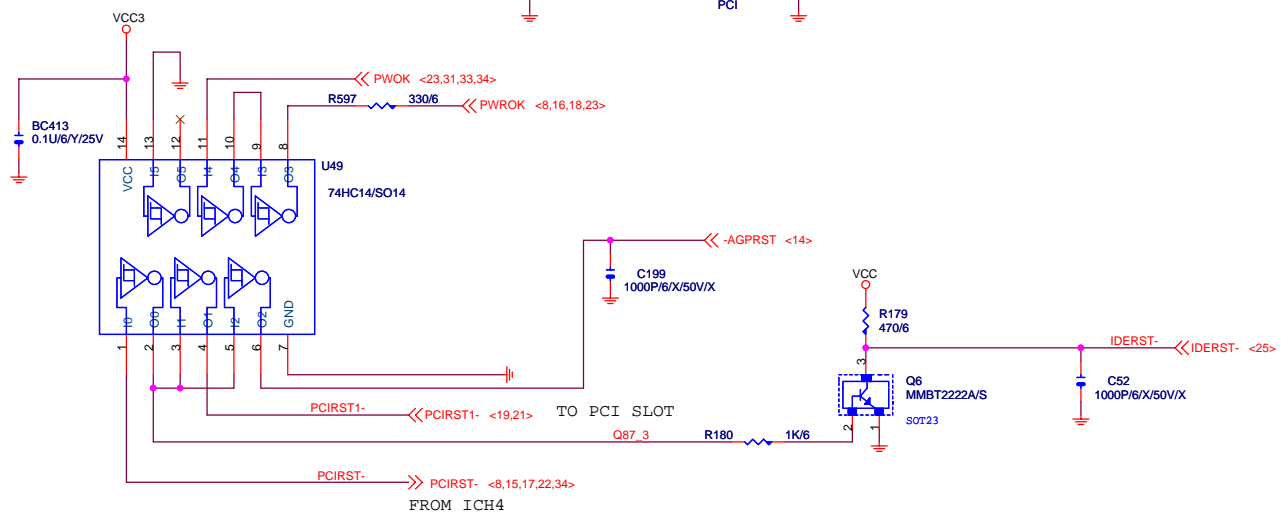
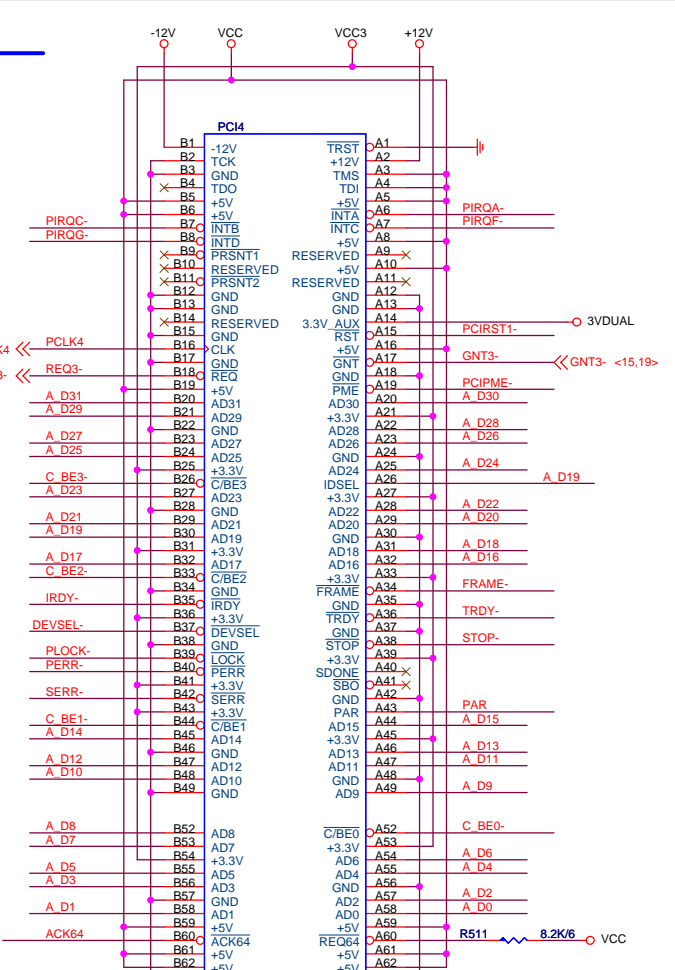




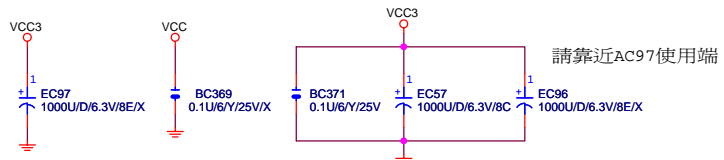
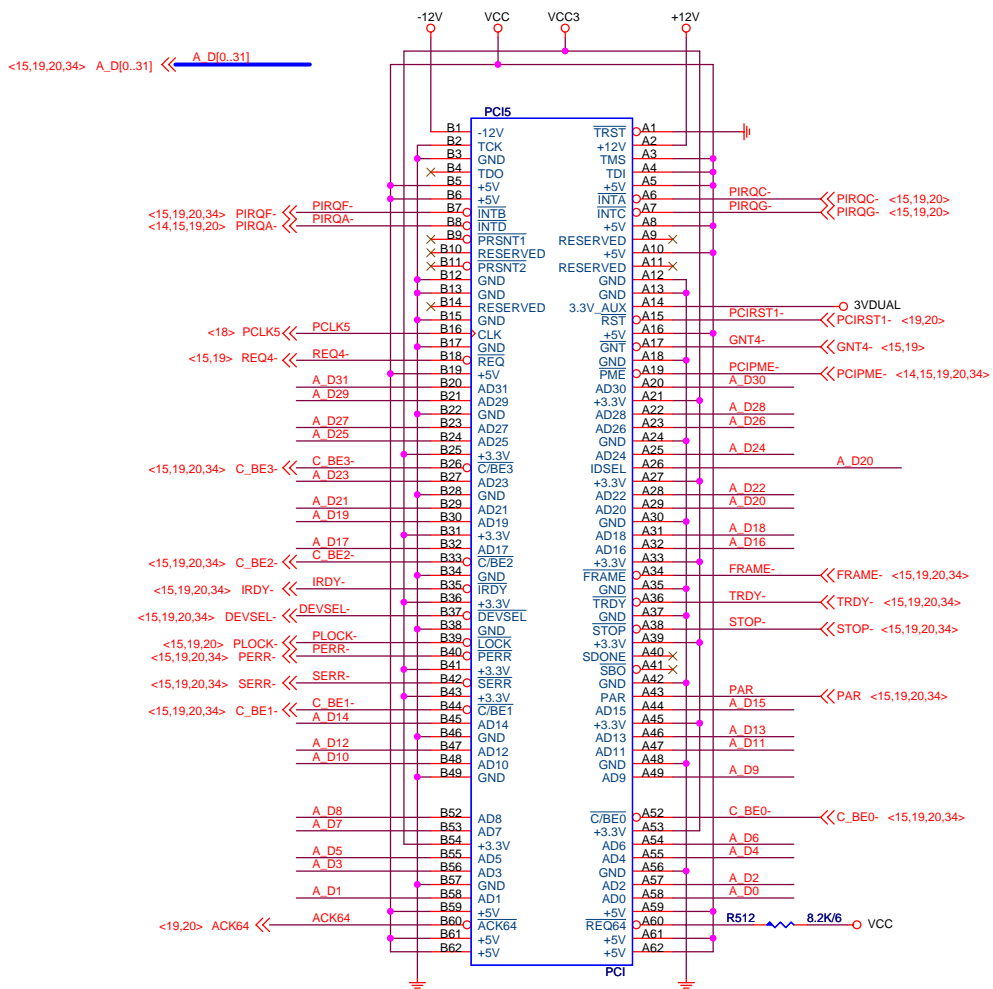
GIGABYTE		
Title: PCI SLOT 1/2		
Size B	Document Number: 81845GE775-G	Rev: 1.0
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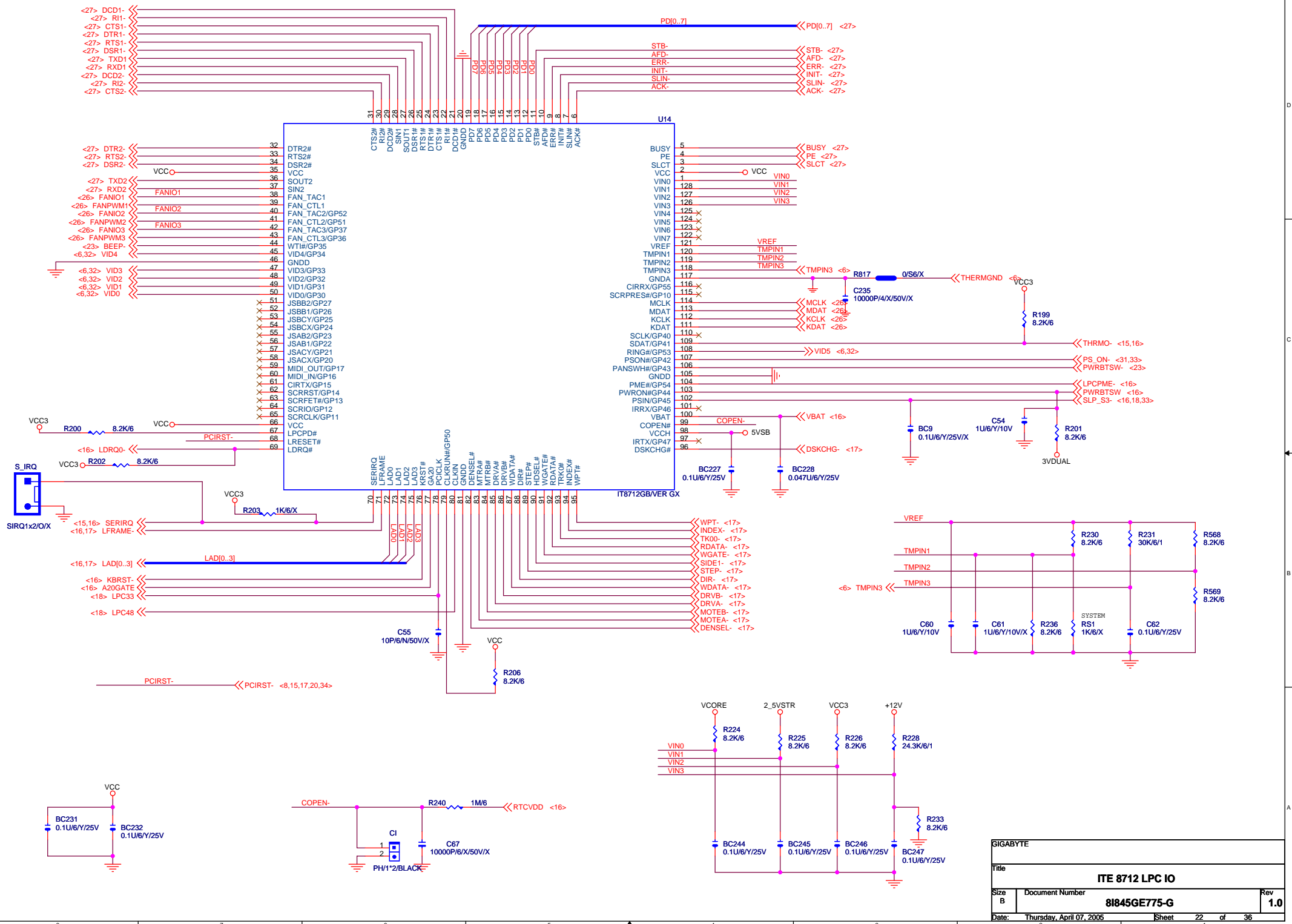
<15,19,21,34> A_D[0..31] << A_D[0..31]



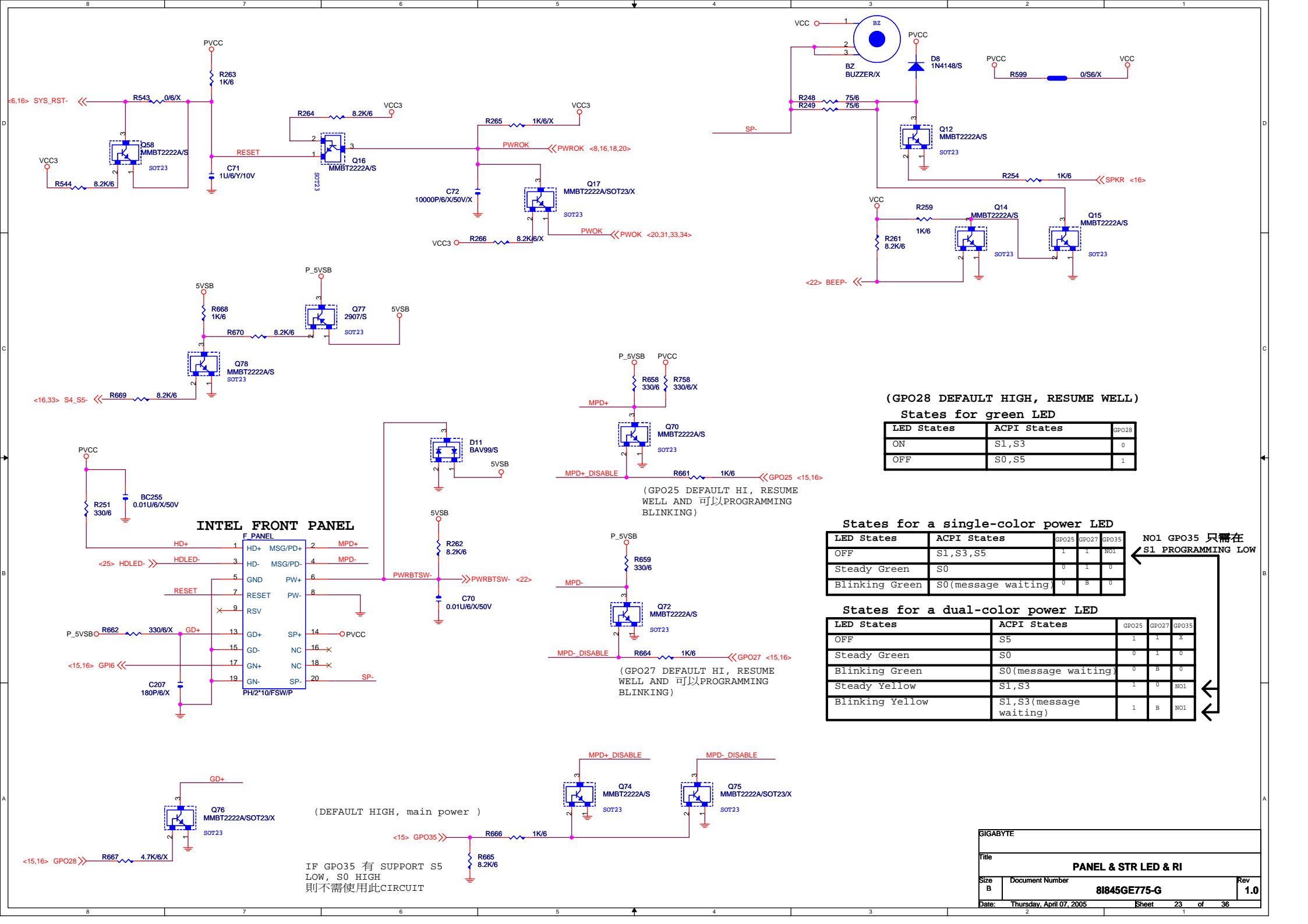
GIGABYTE			
Title		PCI SLOT 3/4	
Size B	Document Number	81845GE775-G	Rev 1.0
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GIGABYTE		
Title		
PCI SLOT 5		
Size	Document Number	Rev
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GIGABYTE		
Title		
ITE 8712 LPC IO		
Size B	Document Number	Rev
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(GPO28 DEFAULT HIGH, RESUME WELL)
States for green LED

LED States	ACPI States	GPO28
ON	S1, S3	0
OFF	S0, S5	1

States for a single-color power LED

LED States	ACPI States	GPO25	GPO27	GPO35
OFF	S1, S3, S5	1	1	NO1
Steady Green	S0	0	1	0
Blinking Green	S0 (message waiting)	0	B	0

NO1 GPO35 只需在
S1 PROGRAMMING LOW

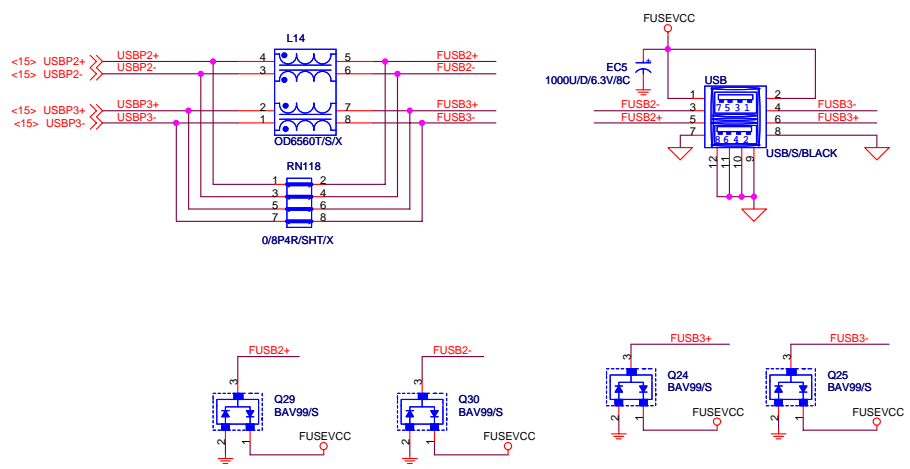
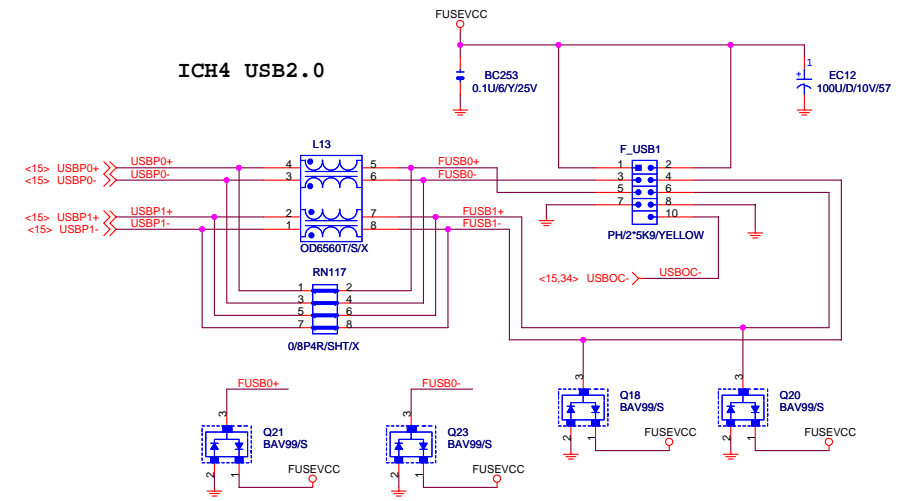
States for a dual-color power LED

LED States	ACPI States	GPO25	GPO27	GPO35
OFF	S5	1	1	X
Steady Green	S0	0	1	0
Blinking Green	S0 (message waiting)	0	B	0
Steady Yellow	S1, S3	1	0	NO1
Blinking Yellow	S1, S3 (message waiting)	1	B	NO1

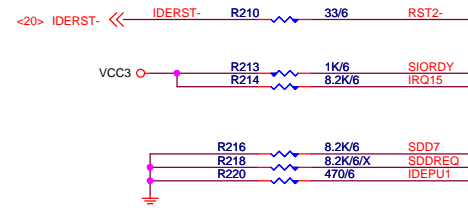
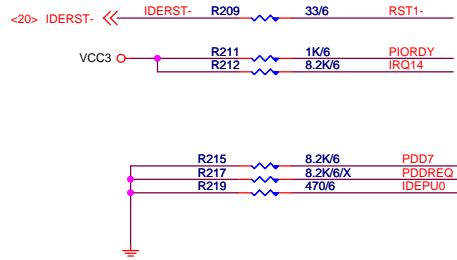
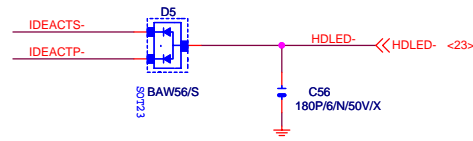
(DEFAULT HIGH, main power)

IF GPO35 有 SUPPORT S5
LOW, S0 HIGH
則不需使用此CIRCUIT

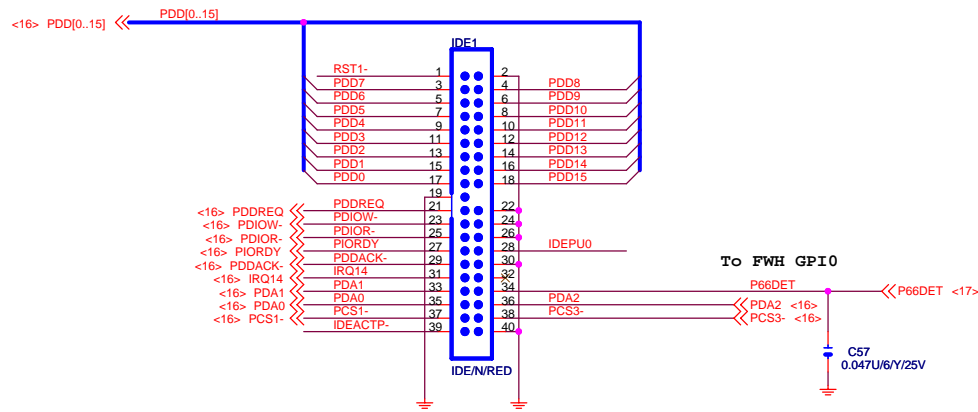
ICH4 USB2.0



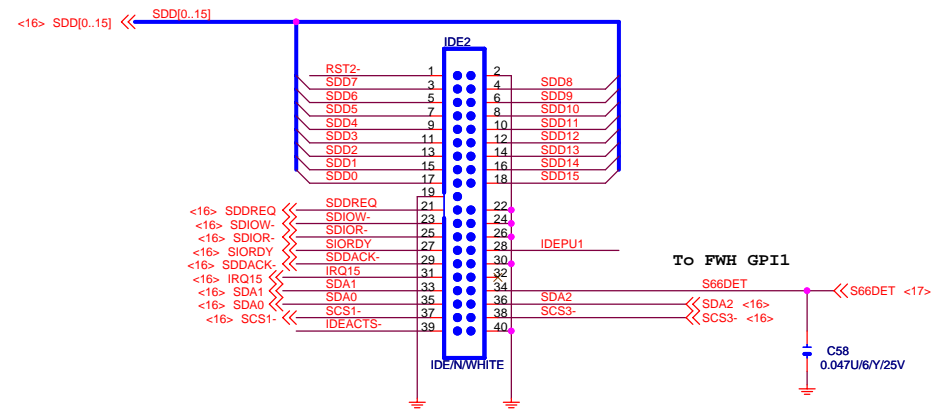
GIGABYTE			
Title			
ICH USB+LAN PORT			
Size	Document Number	Rev	
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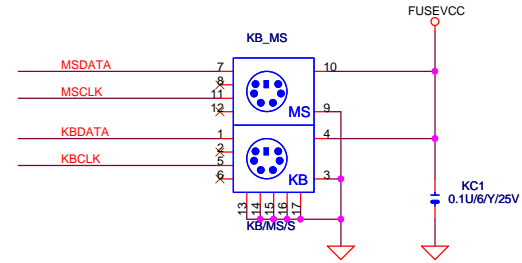
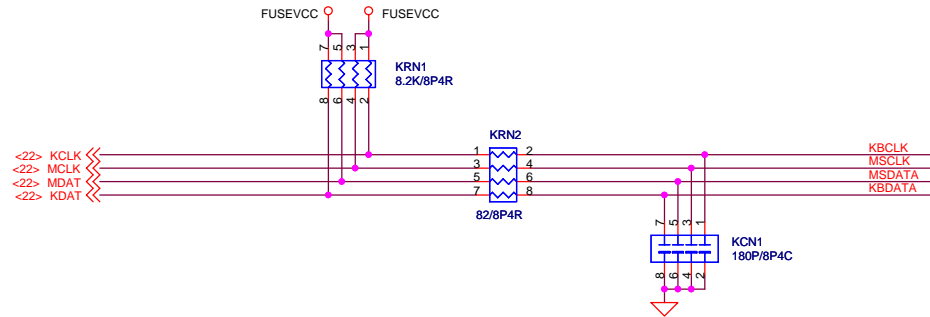
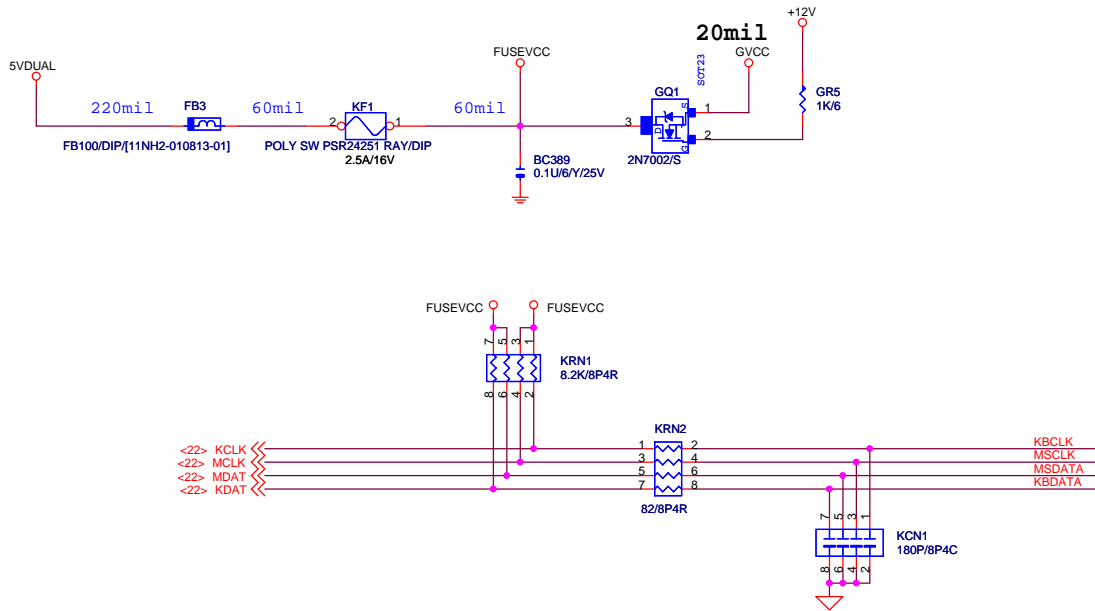
PRIMARY IDE CONNECTOR



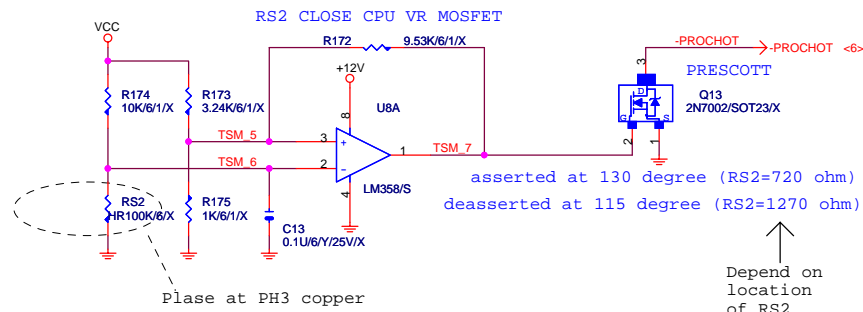
SECONDARY IDE CONNECTOR



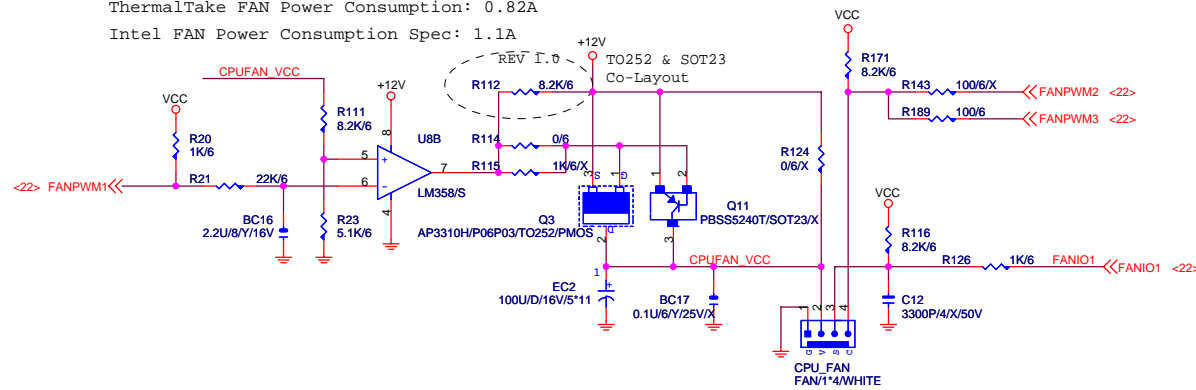
GIGABYTE		
Title		
IDE CONNECTOR		
Size	Document Number	Rev
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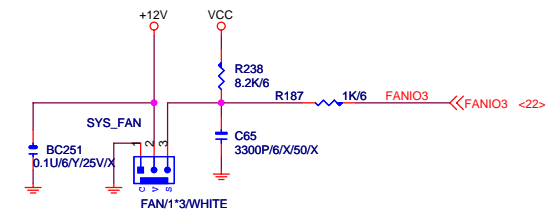
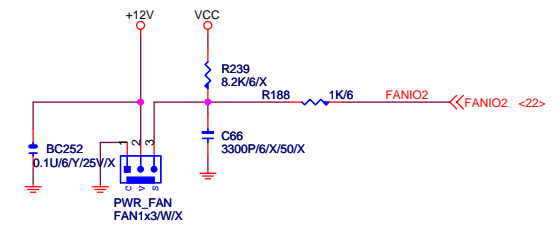
PROCESSOR HOT U-ATX PROCESSOR HOT NO POP



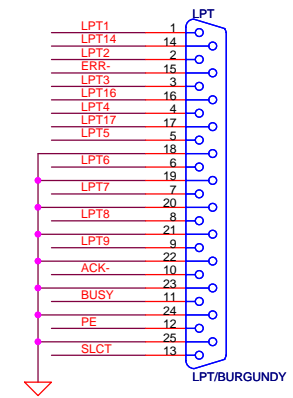
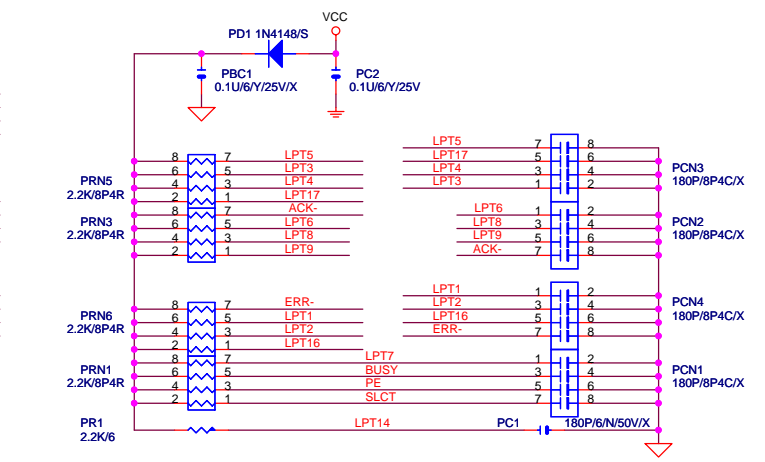
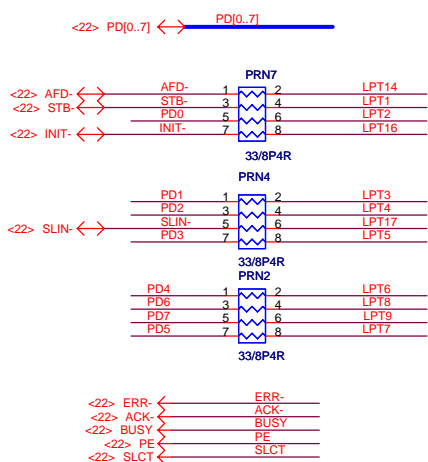
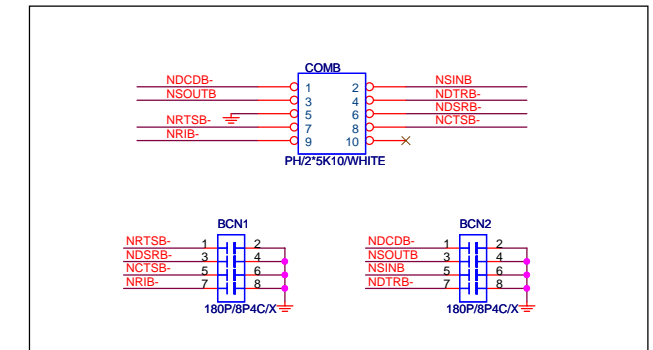
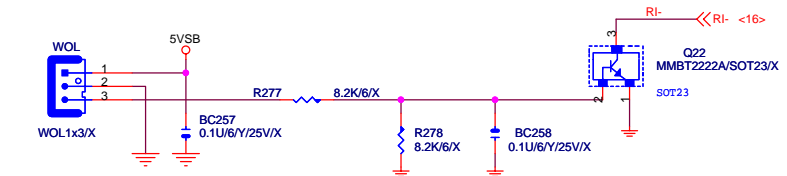
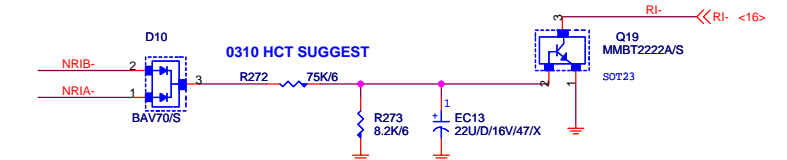
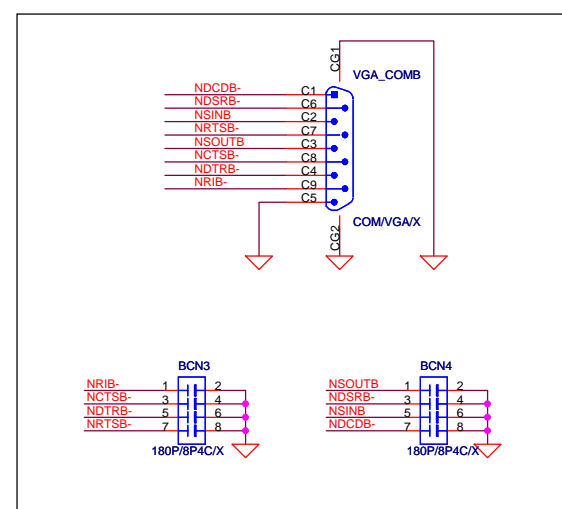
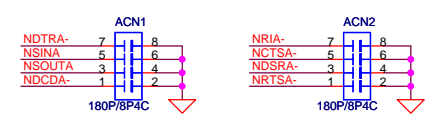
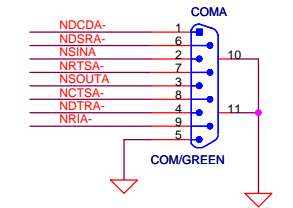
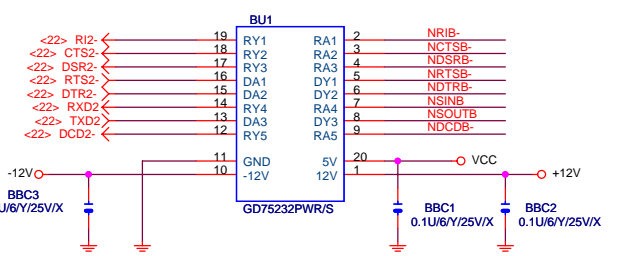
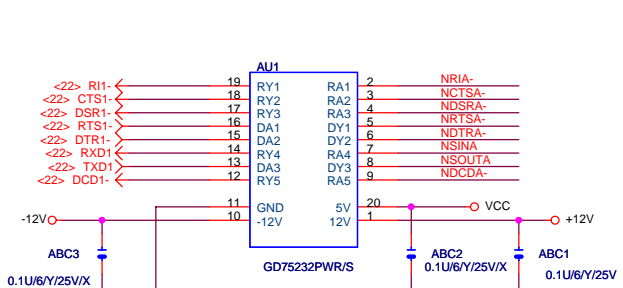
ThermalTake FAN Power Consumption: 0.82A
Intel FAN Power Consumption Spec: 1.1A



CPU_FAN PIN3,4 CO-LAYOUT



GIGABYTE		
Title		
KB & PS2 MOUSE & IR		
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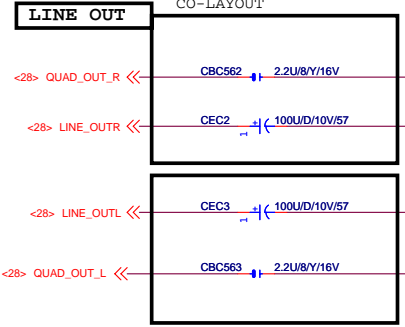


模組化線路

GIGABYTE		
Title		
COM & IR & LPT PORT & FLOOPY		
Size	Document Number	Rev
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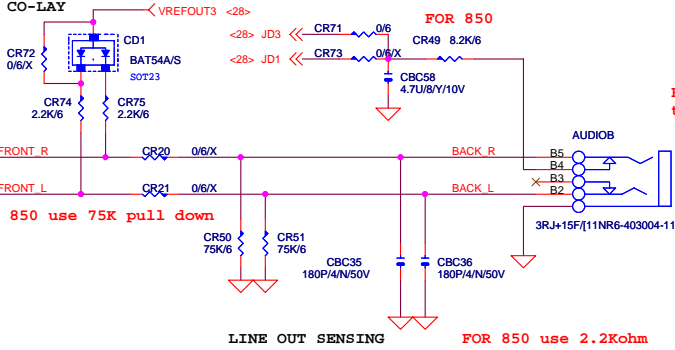
JDO,JD2,GPIO0 為偵測DEVICE INPUT 時由LOW TO HIGH Edge trigger(pop manual)

注意CBC47,CBC48不可 CO-LAYOUT



注意CBC49,CBC50不可 CO-LAYOUT

$1/2(3.14)RC=1/2(3.14)8.2K*4.7U=4.3HZ$ 以上AC 信號全部衰減 TO 0V 不會造成JDO 誤動作(無device 時play wav)



LINE OUT SENSING
R>4K OHM=>POWER SPEAKER
4K OHM>R>400 OHM=>MICROPHONE
R<400 OHM=>HEADPHONE

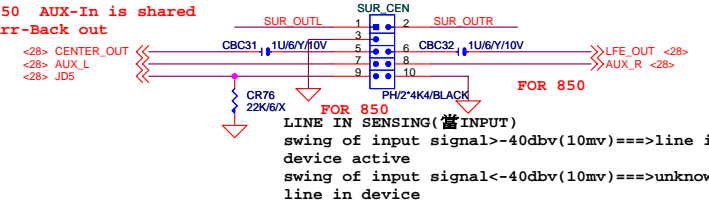
2x5 header for 850

For 850 if JD5 = low AUX-In is configured as input
For 850 if JD5 = high AUX-In is configured as output, Surr-Back out

FOR SUPPORT 6 CHANNEL, SURROUND OUT

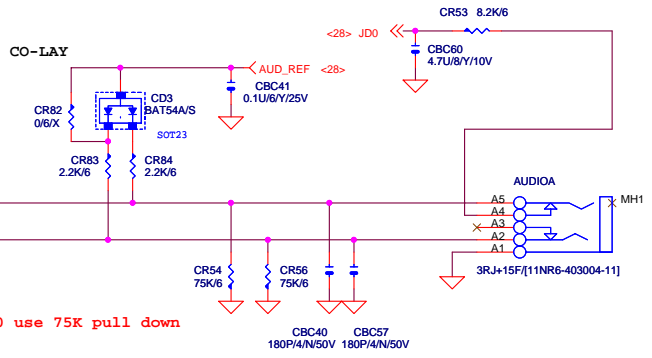
CENTER OUT, LOW FREQUENCY EFFECT OUT

For 850 AUX-In is shared to Surr-Back out



FOR 850 LINE IN SENSING(當INPUT) swing of input signal<-40dbv(10mv)===>line in device active swing of input signal<-40dbv(10mv)===>unknown line in device

MIC

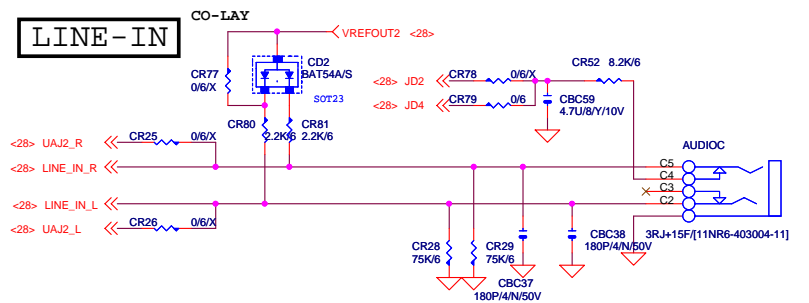


FOR 850 use 75K pull down

MICROPHONE IN SENSING(當INPUT) (利用vref 偏壓與CR43,CR32 並聯求出阻抗)
7.1k ohm>R>2.3k ohm===>microphone in
R<2.3k ohm or R>7.1k ohm===>unknown device

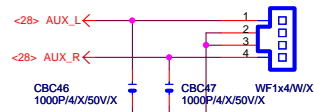
MICROPHONE IN SENSING(當OUTPUT)
R>4K OHM=>POWER SPEAKER
4K OHM>R>400 OHM=>MICROPHONE
R<400 OHM=>HEADPHONE

LINE-IN

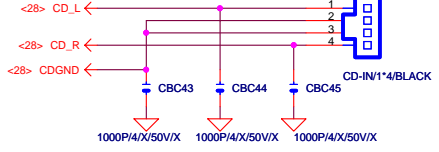


LINE IN SENSING(當OUTPUT)
R>4K OHM=>POWER SPEAKER
4K OHM>R>400 OHM=>MICROPHONE
R<400 OHM=>HEADPHONE

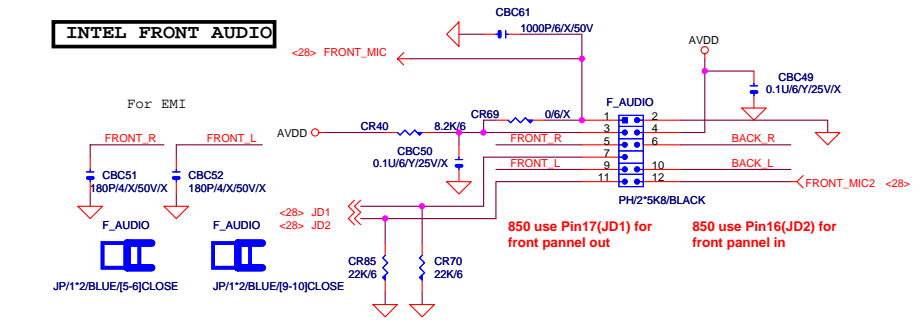
AUX IN DEFAULT NO POP



CD IN

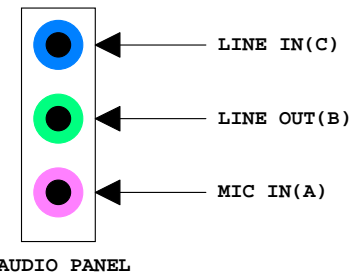
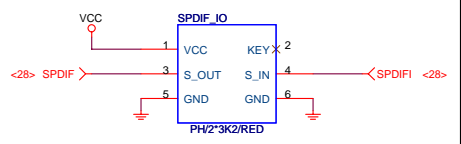


INTEL FRONT AUDIO

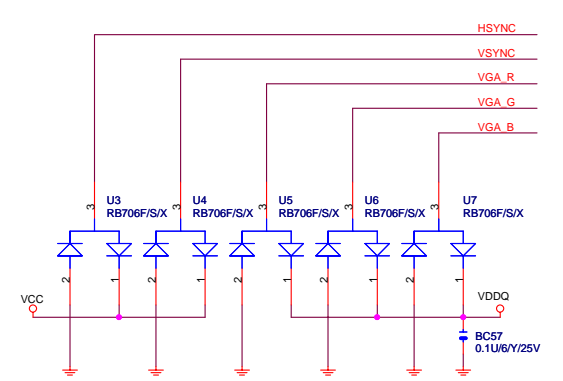
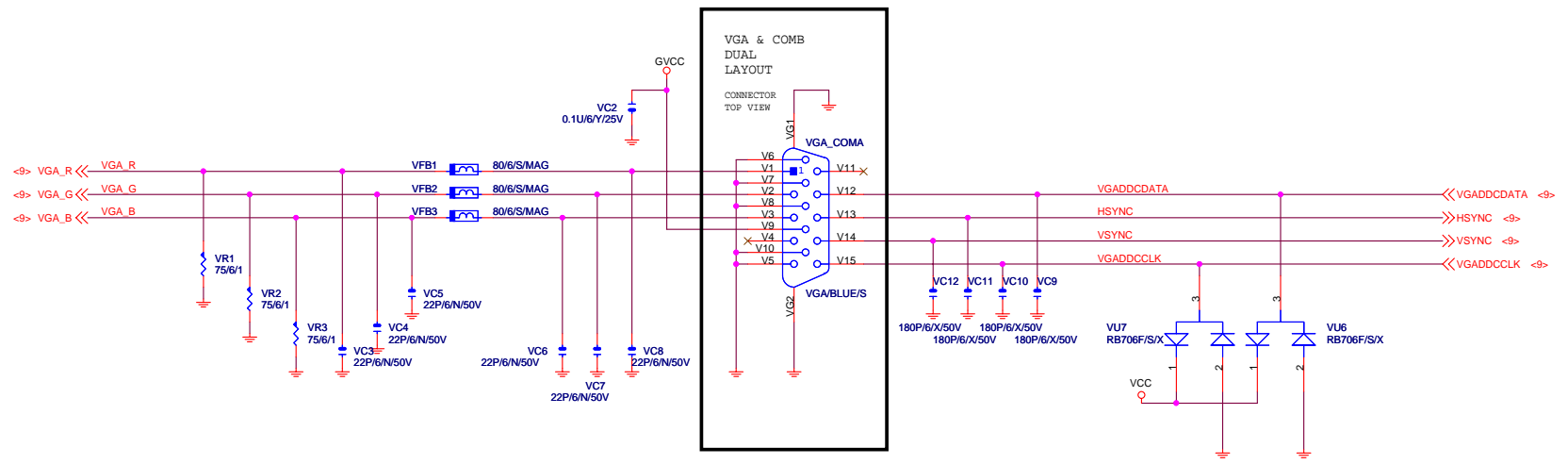


850 use Pin17(JD1) for front pannel out
850 use Pin16(JD2) for front pannel in

SPDIF



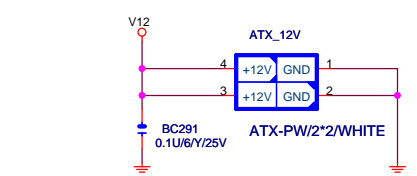
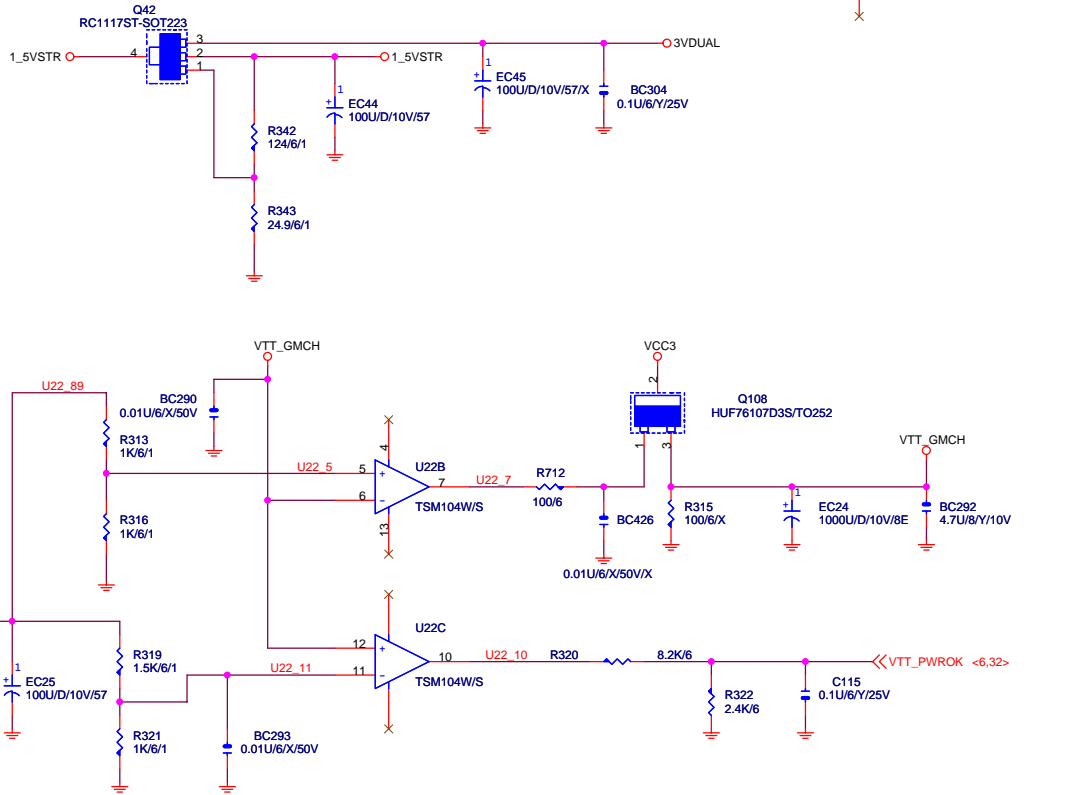
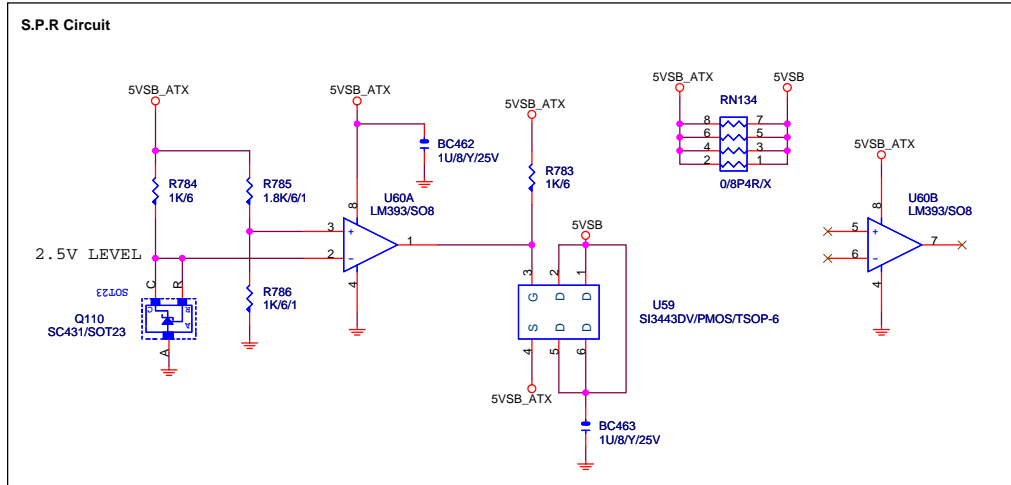
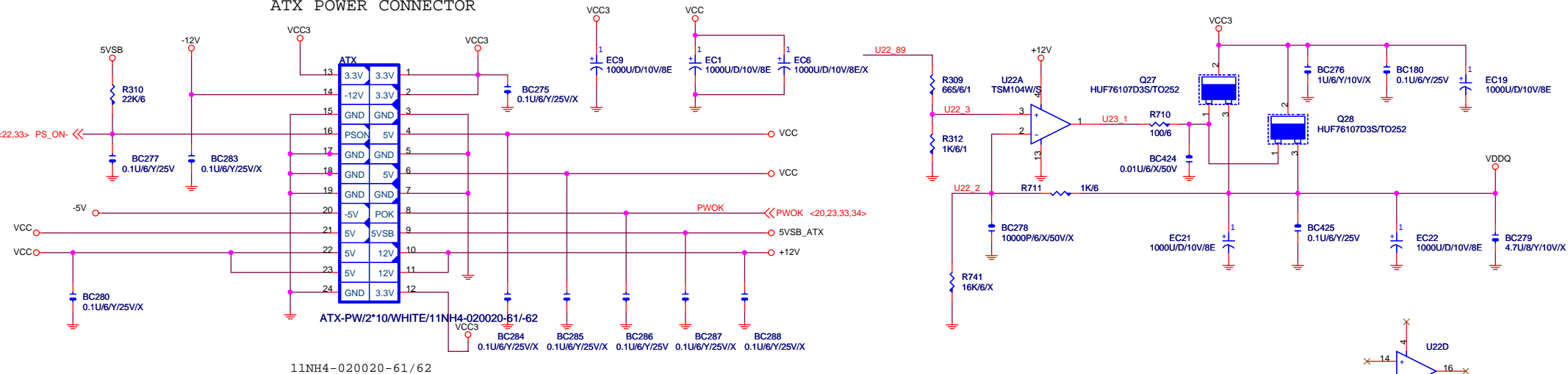
GIGABYTE		
AC97 OUTPUT, GAME PORT		
Title	Document Number	Rev
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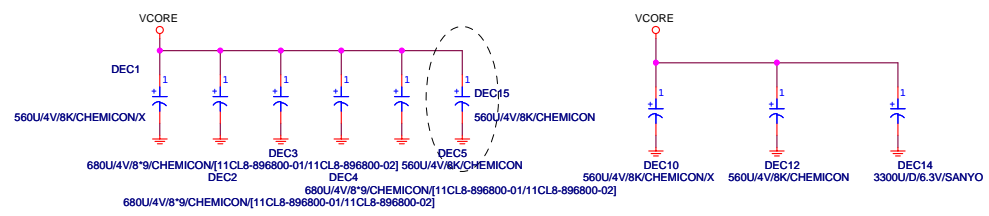
模組化線路

Title			VGA CONNECTOR		
Size	Document Number				Rev
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ATX POWER CONNECTOR



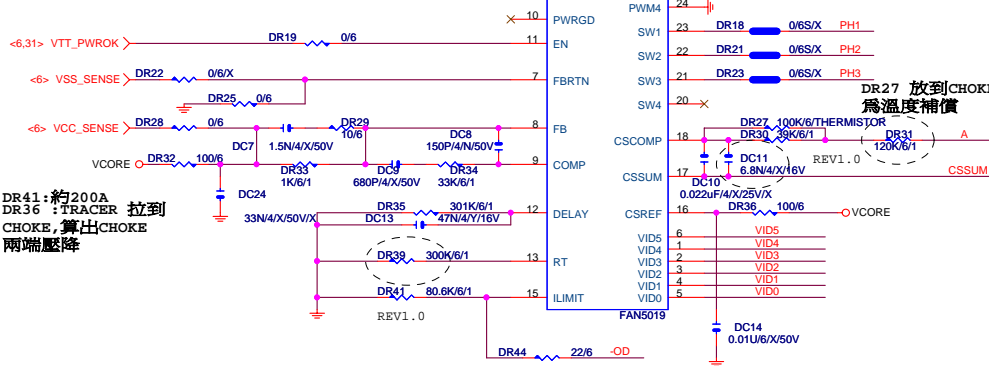
GIGABYTE		
Title		
Misc. PWR & ATX CONN.		
Size B	Document Number	Rev
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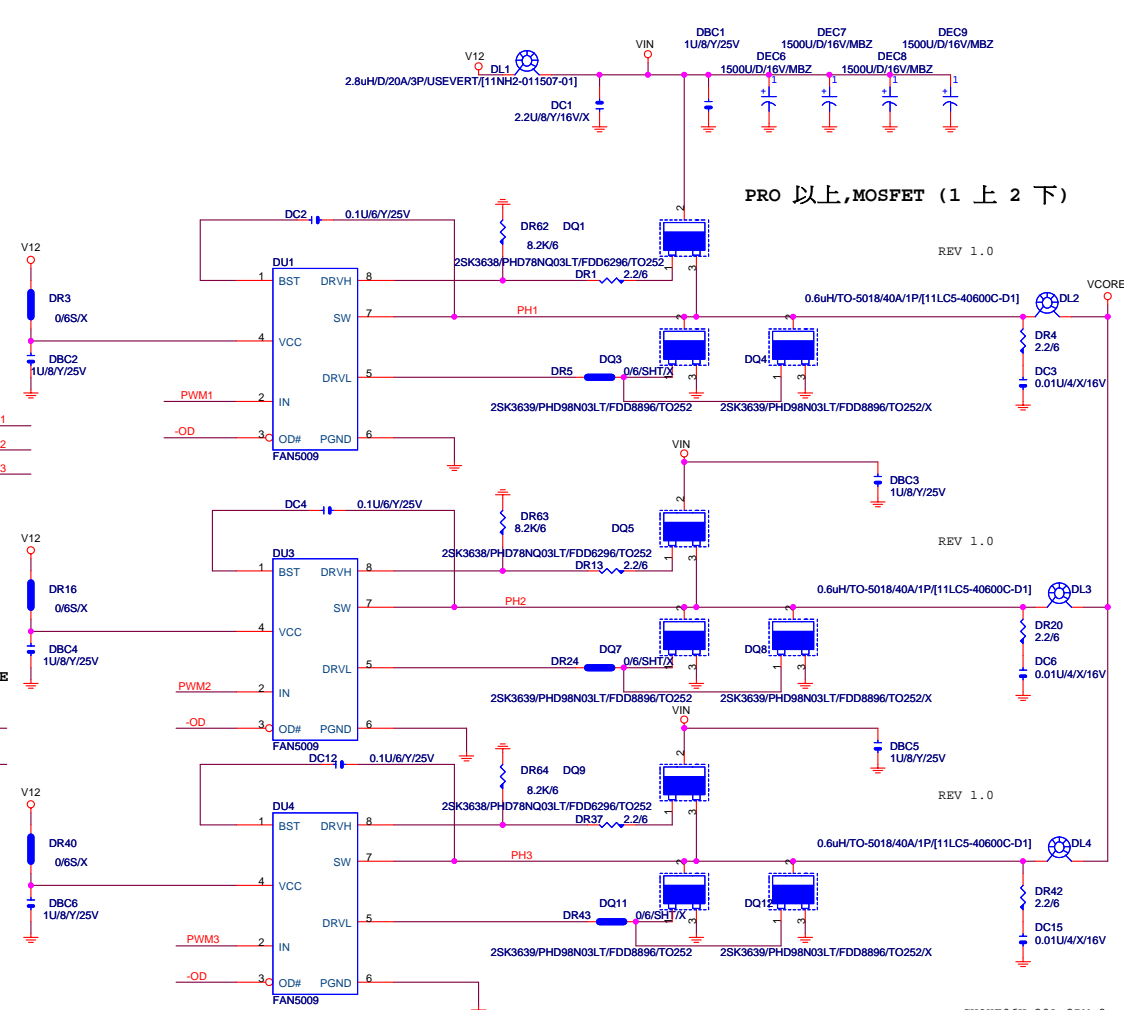
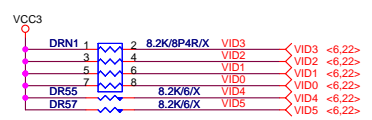
DD1 : 在HIGH SIDE 發生S-D SHORT 時(OVP), LOW SIDE MOSFET TURN ON ,讓VCORE 降壓,同時V12 也會下降6~7V以下時,造成PWM 無法提供POWER TO LOW SIDE TURN ON,所以加DD1 延長PWM POWER 提供給LOW SIDE MOSFET TURN ON 保護CPU VOLTAGE 過高.

DR9,DC5 FOR V12 OVER 19V 以上,SPEC (18V)

DR12 為一個 CYCLE的DUTY(50%)
 DELAY : 讓限流時間DELAY (DR35,DC13) 才啓動.
 DR39: 240K
 工作頻率=720KHZ / 4PHASE=180K(1 PHASE)



DR41: 約200A
 DR36 : TRACER 拉到 CHOKE,算出CHOKE 兩端壓降



PRO 以上,MOSFET (1 上 2 下)

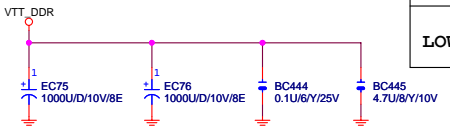
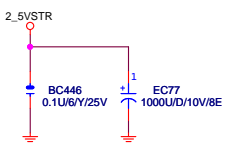
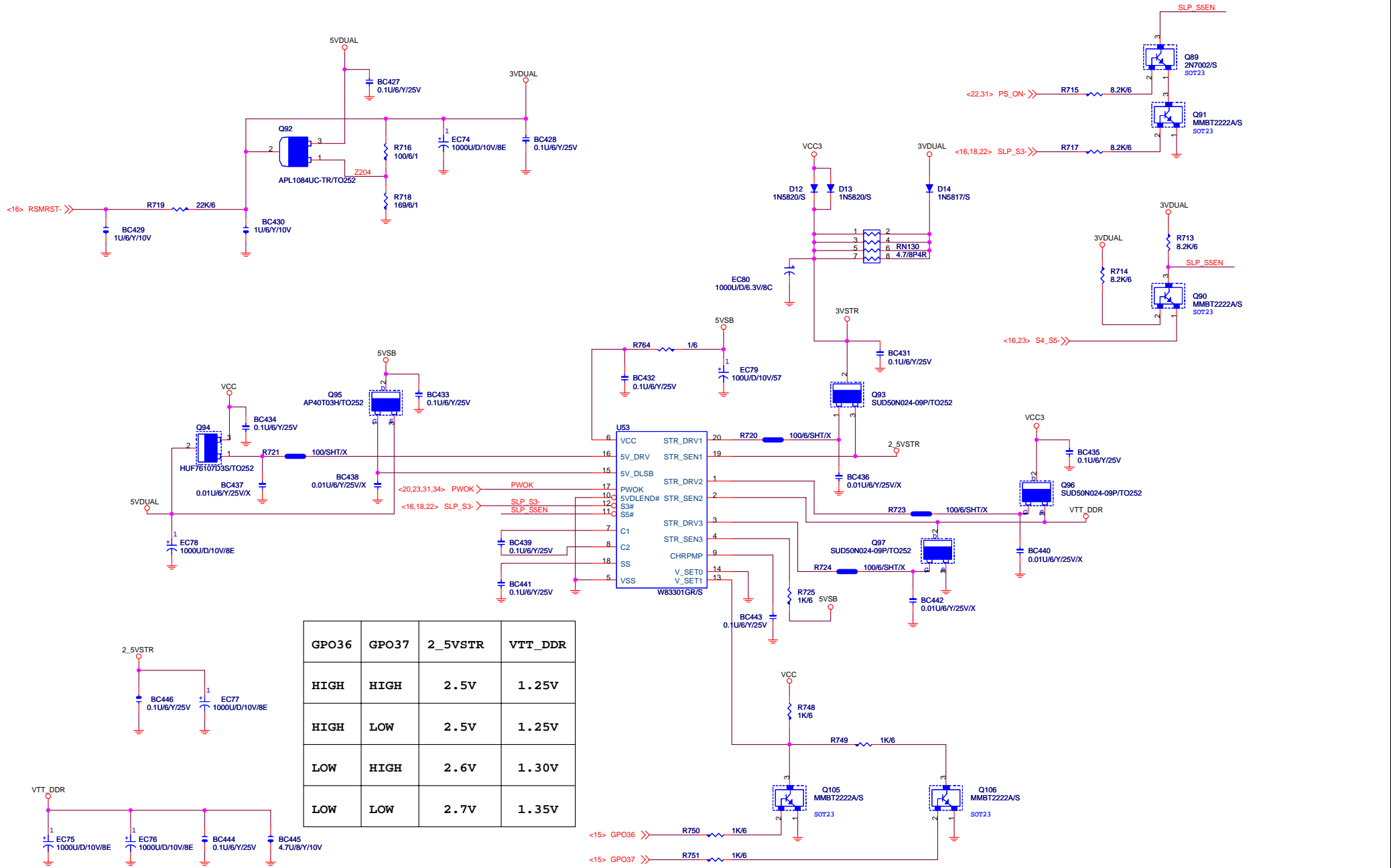
REV 1.0

REV 1.0

REV 1.0

CHOKE06U-30A_3PM-2

GIGABYTE		
VRD 10.1		
Title	81845GE775-G	
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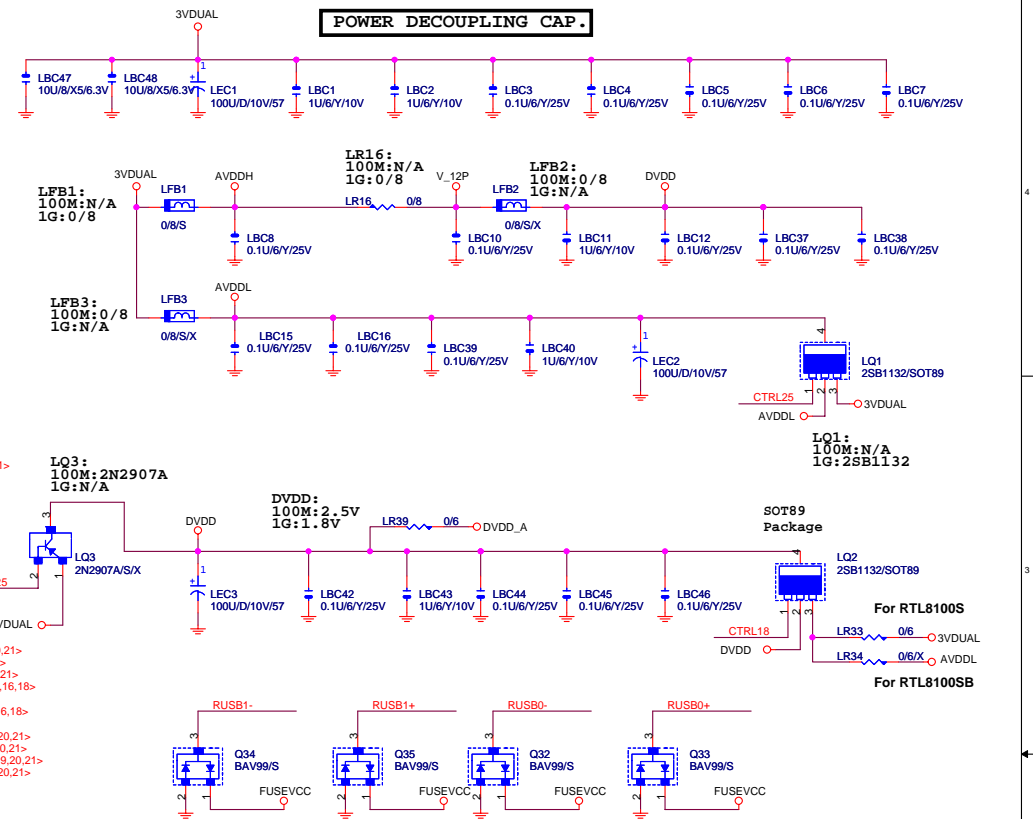
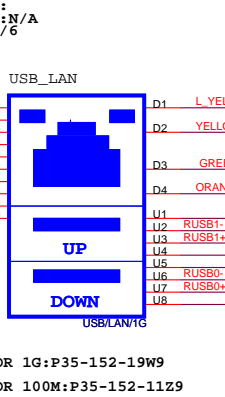
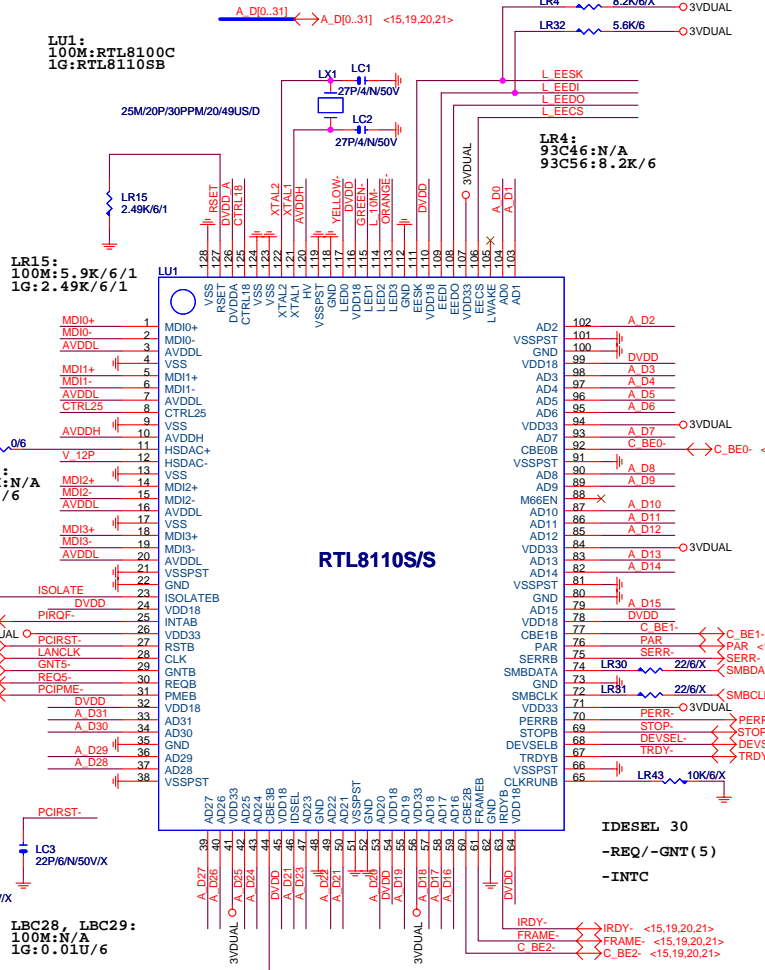
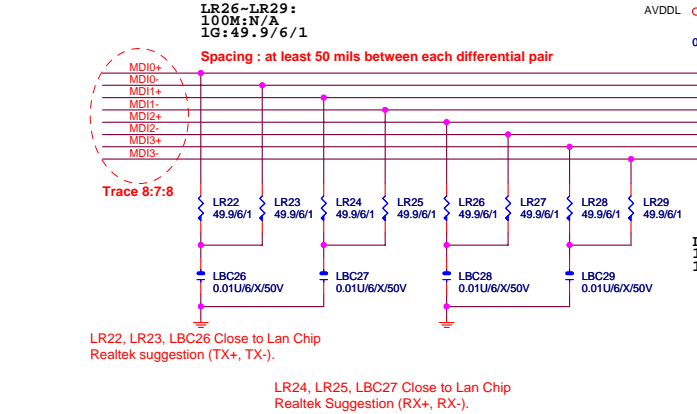
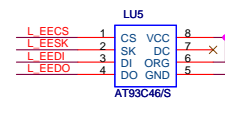
	GPO36	GPO37	2_5VSTR	VTT_DDR
HIGH	HIGH	HIGH	2.5V	1.25V
HIGH	LOW	LOW	2.5V	1.25V
LOW	HIGH	HIGH	2.6V	1.30V
LOW	LOW	LOW	2.7V	1.35V

	10/100	Giga	Giga
	8100C	8110S	8110SB
AVDDH	N/A	3.3V	3.3V
V_12P	2.5V	N/A	3.3V
AVDDL	3.3V	2.5V	2.5V
V_DAC	N/A	2.5V	2.5V
DVDD	2.5V	1.8V	1.3V
DVDD_A	2.5V	1.8V	1.3V

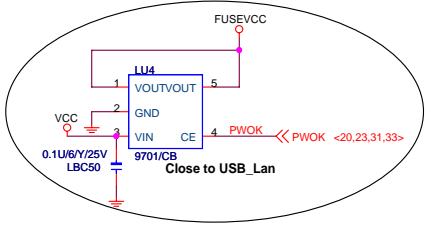
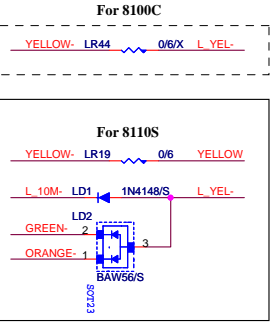
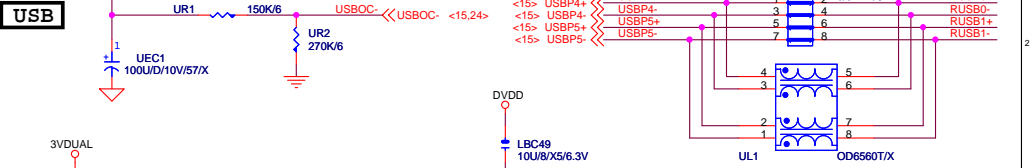
	Yellow	Dual Color LED	
		Green	Orange
10Mb	---	OFF	OFF
100Mb	---	ON	OFF
1Gb	---	OFF	ON
Link	ON	---	---
Active	Blink	---	---



LAN EEPROM



USB



Revision : 0.1

GIGABYTE GA-8I845GE775-G PCI ROUNTING LIST

PCI DEVICE	IDSEL	INT	CLOCK	REQ	GNT	
PCI SLOT1	16	C,F,G,A	PCLK1	REQ0-	GNT0-	
PCI SLOT2	17	F,G,A,C	PCLK2	REQ1-	GNT1-	
PCI SLOT3	18	G,A,C,F	PCLK3	REQ2-	GNT2-	
PCI SLOT4	19	A,C,F,G	PCLK4	REQ3-	GNT3-	
PCI SLOT5	20	C,F,G,A	PCLK5	REQ4-	GNT4-	
LAN	21	F	LANCLK	REQ5-	GNT5-	

GIGABYTE GA-8I845GE775-G GPIO LIST

SHEET TITLE

GPI		
GPI0/REQA-		PULL DOWN 15K, detect IDE1 connector type.
GPI1/REQ5-		PULL DOWN 15K, detect IDE2 connector type.
GPI2/PIRQE-		PULL 8.2K TO VCC3
GPI3/PIRQF-		PULL 8.2K TO VCC3
GPI4/PIRQG-		PULL 8.2K TO VCC3
GPI5/PIRQH-		PULL 8.2K TO VCC3
GPI6		PULL 8.2K TO VCC3 (GREEN_BUTTON)
GPI7		NOT IMPLEMENTED
GPI8		PULL 8.2K TO 3VDUAL, LPC PME.
GPI9	NA	NOT IMPLEMENTED
GPI10	NA	NOT IMPLEMENTED
GPI11		PULL 4.7K TO 3VDUAL (SMBALERT)
GPI12		PULL DOWN 10K.
GPI13		PULL DOWN 10K, CNR_PRIMARY
GPI14	NA	NOT IMPLEMENTED
GPI15	NA	NOT IMPLEMENTED

SHEET TITLE

GPO		
GPO16		PULL 8.2K TO VCC3
GPO17		PULL 8.2K TO VCC3 (GNT5-)
GPO18		PULL 8.2K TO VCC3
GPO19		PULL 8.2K TO VCC3
GPO20		PULL 8.2K TO VCC3
GPO21		PULL 8.2K TO VCC3
GPO22		PULL 8.2K TO VCC3
GPO23		PULL 8.2K TO VCC3
GPO24		PULL 1K TO 3VDUAL (TOP BLOCK)
GPO25		PULL 4.7K TO 3VDUAL, POWER LED CONTROL.
GPO26		NOT IMPLEMENTED
GPO27		PULL 8.2K TO 3VDUAL, POWER LED CONTROL.
GPO28		PULL 8.2K TO 3VDUAL, GREEN LED.
GPO32		PULL 8.2K TO 3VDUAL, BIOS WRITE PROTECT.
GPO35		PULL DOWN 10K, POWER LED CONTROL.

GIGABYTE

Title			GPIO LIST		
Size	Document Number				Rev
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