

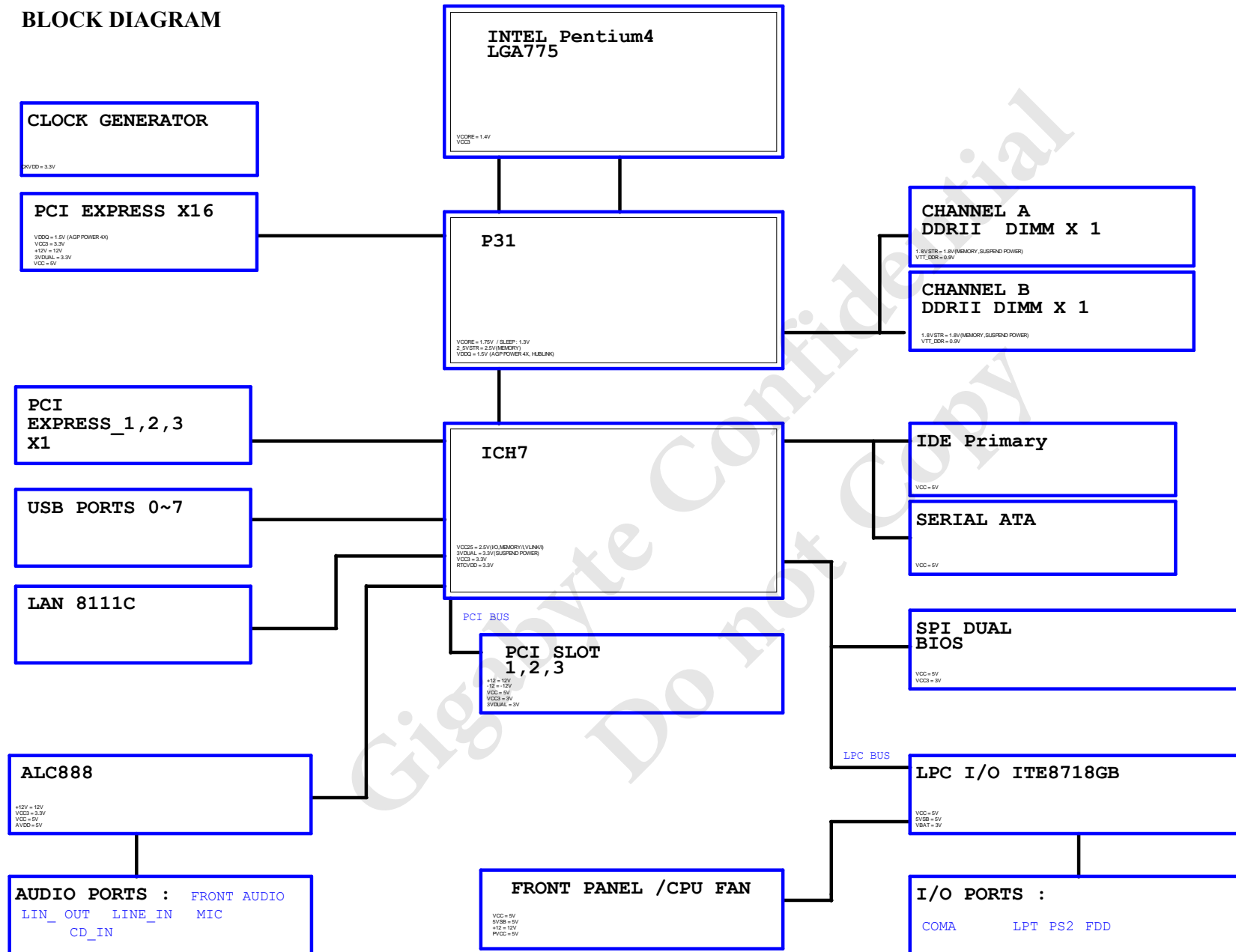
Model Name : GA-P41-ES3G *Revision 1.1*

SHEET	TITLE
01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	P4 LGA775 A
05	P4 LGA775 B,D
06	P4 LGA775 C
07	P4 LGA775 E,F,G,H
08	Eaglelake HOST
09	Eaglelake DDR
10	Eaglelake PCI EXP 16,DMI
11	Eaglelake VGA
12	Eaglelake GND
13	Eaglelake PWR
14	PCI EXPRESS*16 SLOT
15	DDRII CHANNEL A
16	DDRII CHANNEL B
17	DDRII TERMINATION
18	ICH7 PCI, USB, DMI, LAN
19	ICH7 IDE, GPIO, SATA, CTRL
20	ICH7 VCC, GND
21	CK505 CLOCK.
22	PCI SLOT 1,2,PCIE*1
23	IDE/FLOPPY
24	ITE 8718 GB/HX
25	COM LPT
26	CI,HWM,KB/MS,DUAL BIOS
27	ALC888

SHEET	TITLE
28	REAR AUDIO JACK
29	DISCRETE POWER
30	VCORE PWM ISL6312
31	ATX, OTHERS POWER
32	FRONT PANEL
33	REALTEK RTL8111D
34	PCI SLOT3,PCIE*2,3

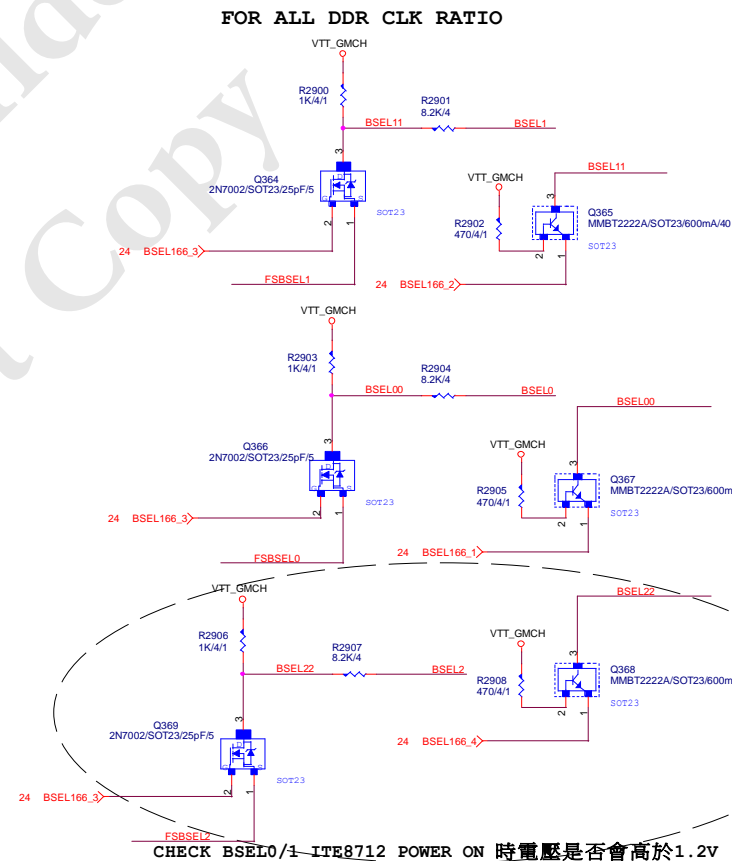
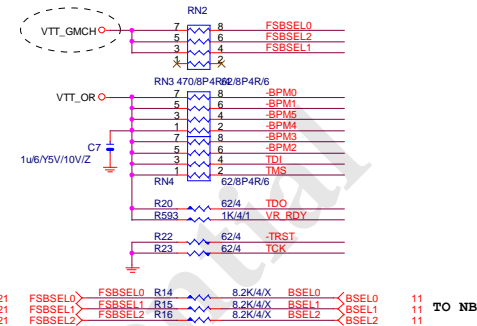
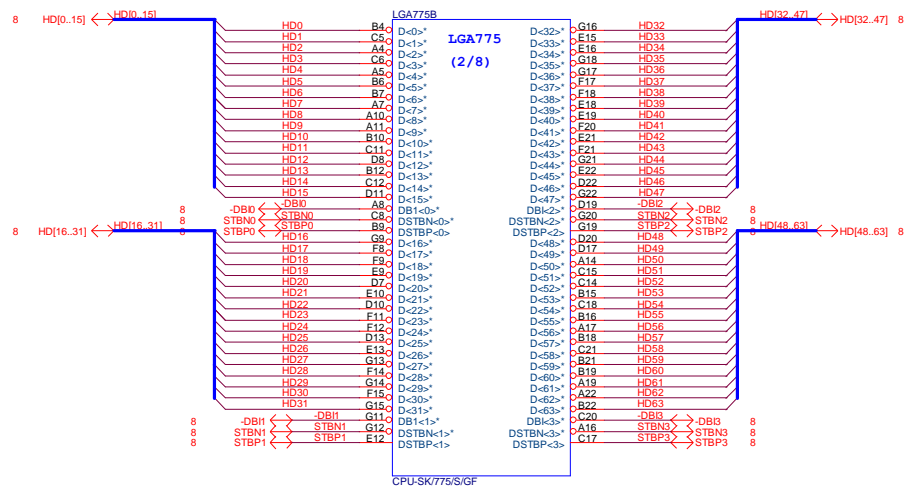
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BLOCK DIAGRAM



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BOM & PCB MODIFY HISTORY			
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FSA	FSB	FSC		
FSBSEL0	FSBSEL1	FSBSEL2	Clock	
1	0	1	100MHz	
1	0	0	133MHz	3/4
0	1	0	200MHz	2/2.66/3.33/4
0	0	0	266MHz	2/2.5/3/4
0	0	1	333MHz	2/2.4
0	1	1	400MHz	

CHECK BSEL0/1 ITE8712 POWER ON 時電壓是否會高於1.2V

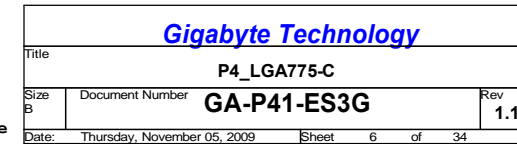
Gigabyte Technology

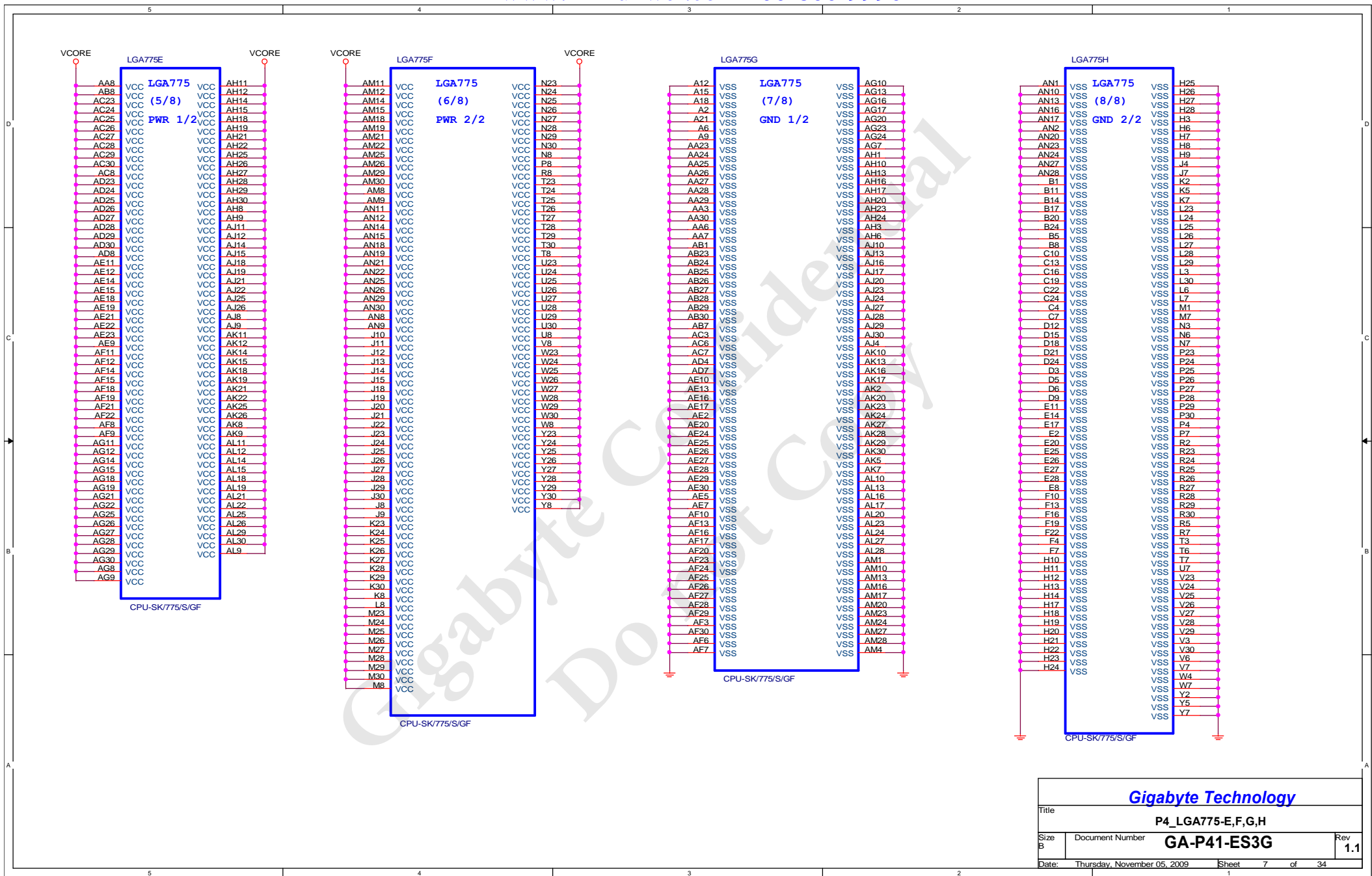
Title	P4 LGA775-B.D
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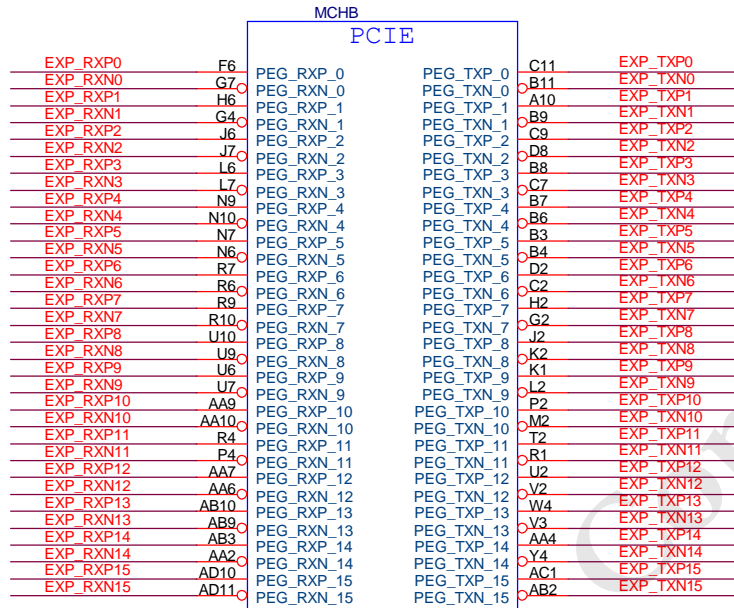






PCIEX16:16/5/5/5/16(breakout min 8/4/5/4/8)

Impedance=85 +- 17.5%

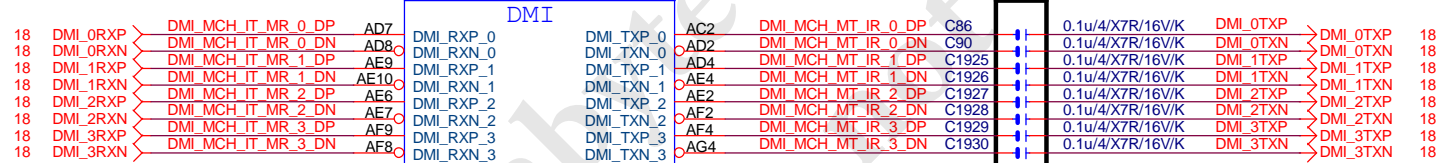


EXP_TXP[0..15] >> EXP_TXP[0..15] 14

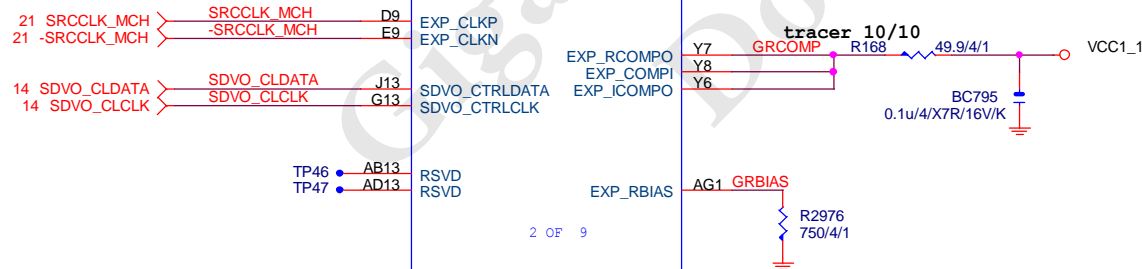
EXP_TXN[0..15] >> EXP_TXN[0..15] 14

EXP_RXP[0..15] >> EXP_RXP[0..15] 14

EXP_RXN[0..15] >> EXP_RXN[0..15] 14

DMI:12/4/8/4/12
Impedance=95 +- 17.5%

Close to MCH



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G41/A3/HDMI[10HB1-030G41-20R]

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EXP_SM
0:SDVO OR PCIE
1:BOTH SDVO AND
EXP_SLR:
0:BTX PCIE are reversed
1:ATX PCIE normal

MCHE

4/10//15<500 MILS

1th RGB:7.5/6 < 300 MILS

2th RGB:4/20 <5"~8" inch

VGA

ON-BOARD VGA 75ohm
non-ON-BOARD VGA 0ohm

4/6//12

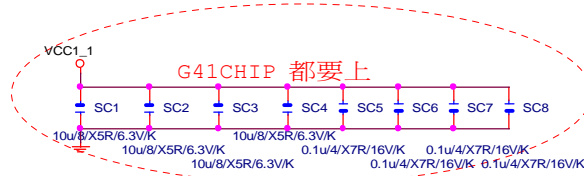
ON-BOARD VGA 1.02k
non-ON-BOARD VGA 0ohm

MISC

BW+ICH8 不要上 (SAMPLE)
BW+ICH7 要上

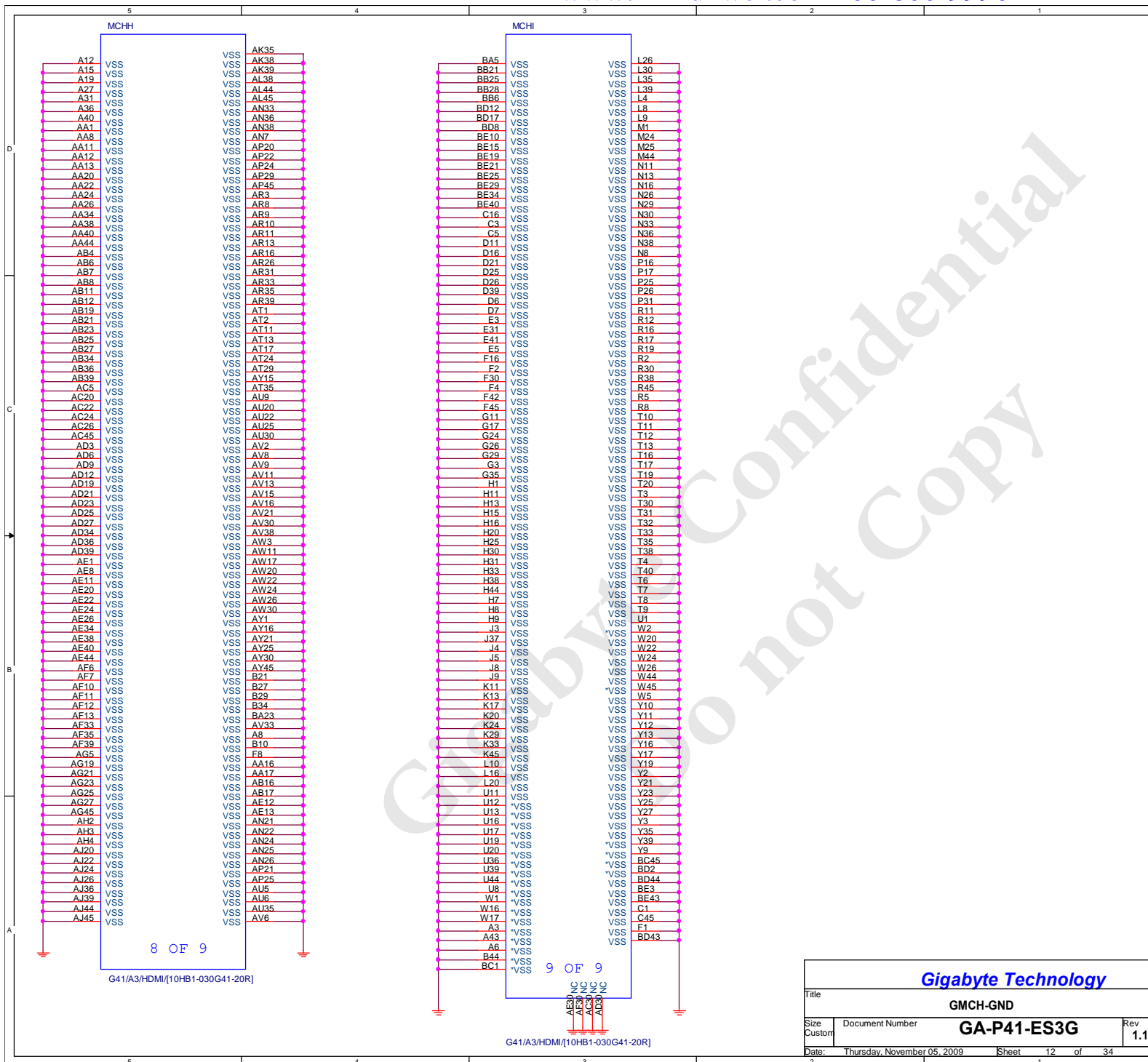
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G41/A3/HDMI/[10HB1-030G41-20R]



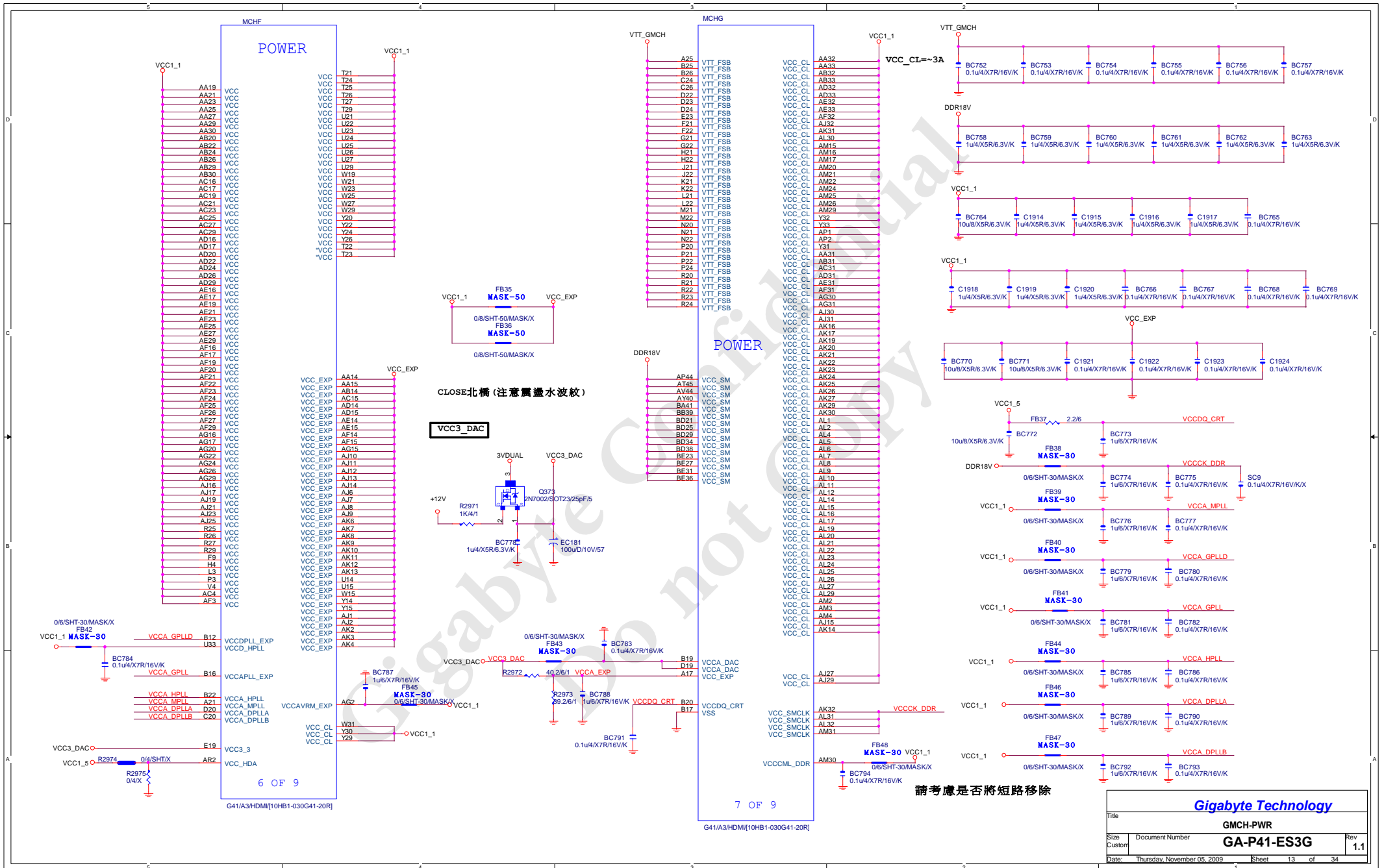
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Title			GMCH-INTERNAL VGA	
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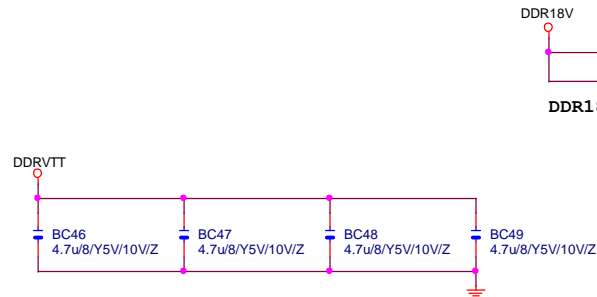
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Size	Document Number	GA-P41-ES3G	
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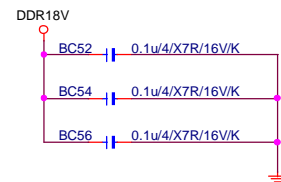
Gigabyte Technology		
GMCH-PWR		
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DDR TERMINATION CHANNEL A

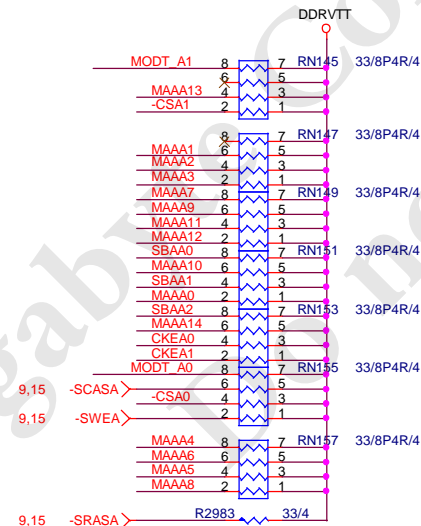
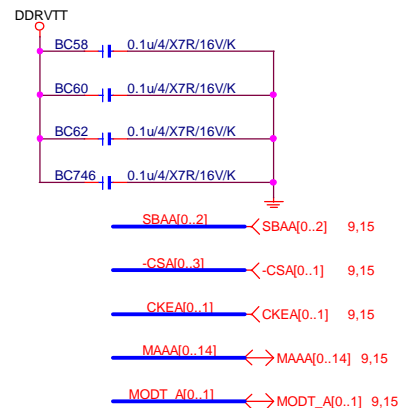
DDRVTT Decouple



DDR18V Decouple

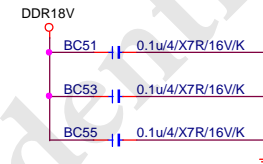


DDRVTT Decouple

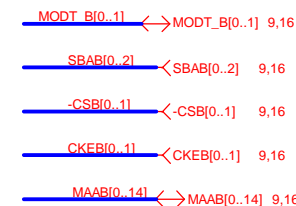
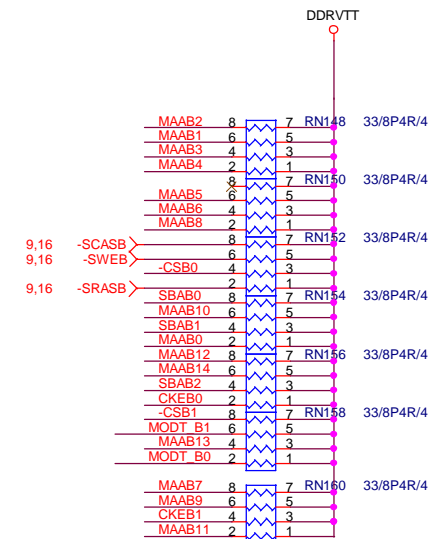
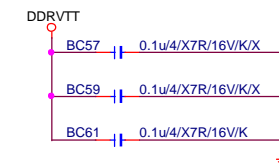


DDR TERMINATION CHANNEL B

DDR18V Decouple



DDRVTT Decouple

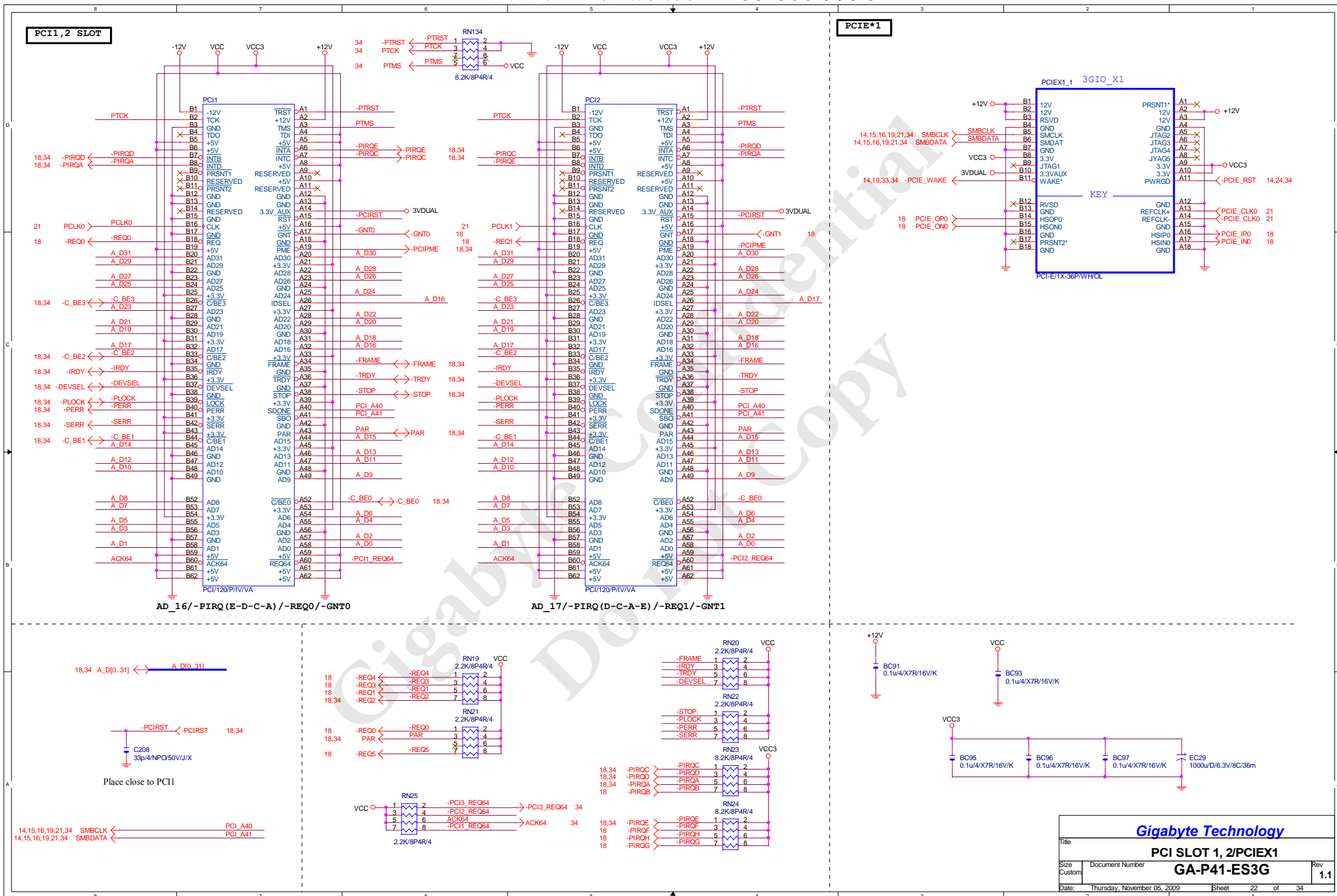


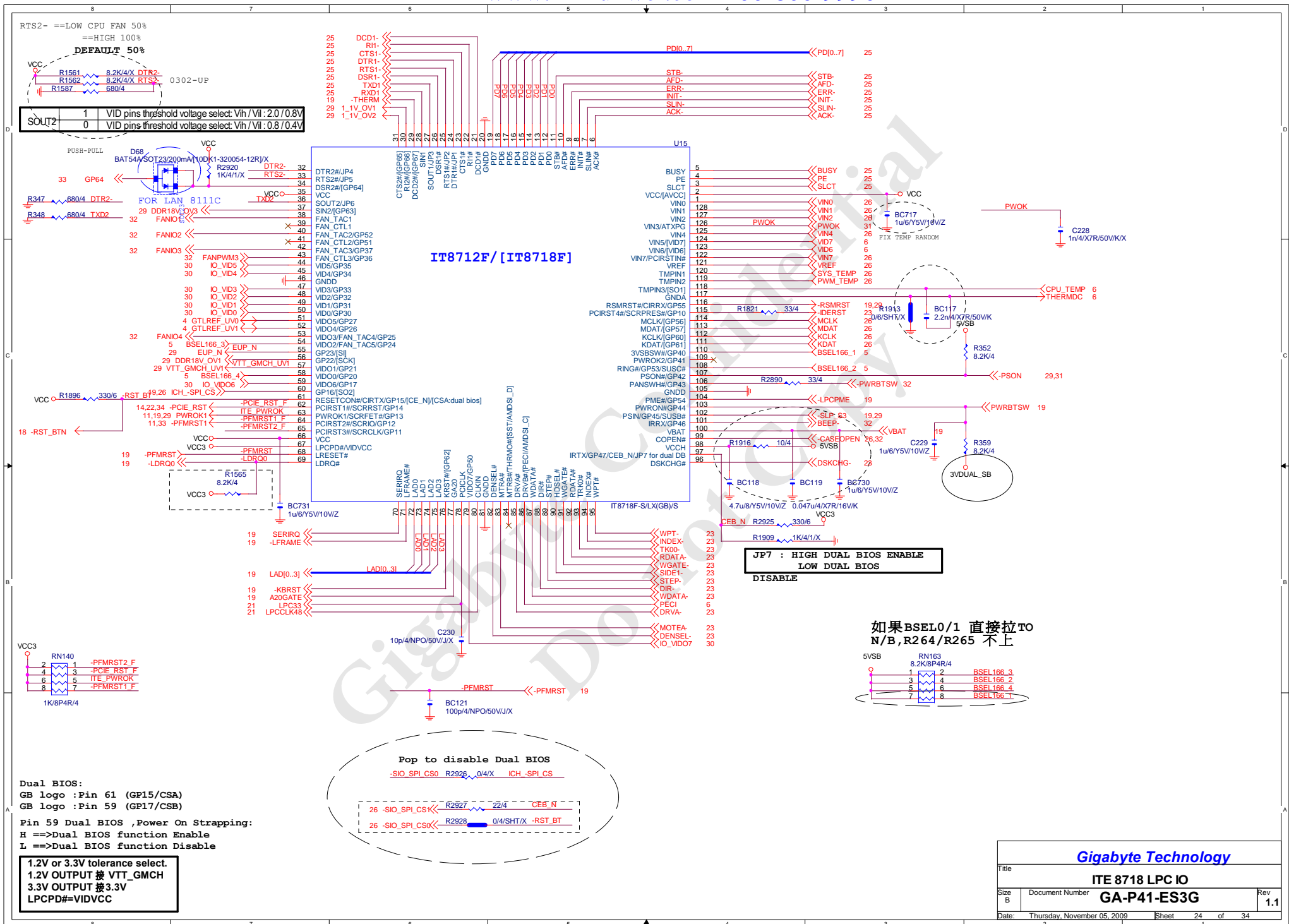
Gigabyte Technology

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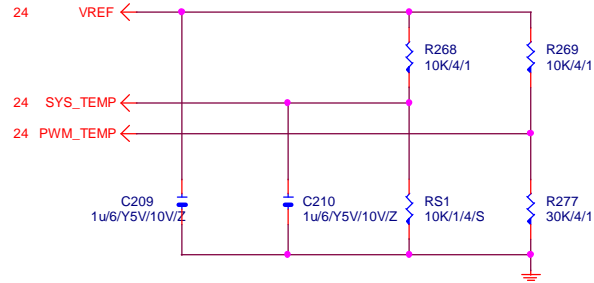


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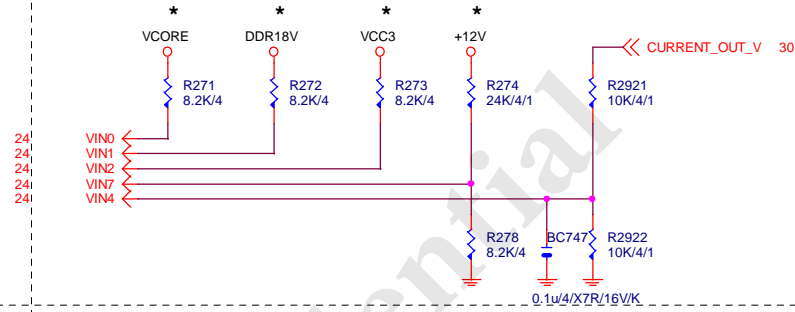




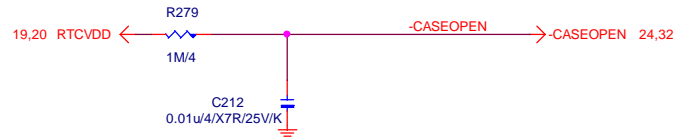
TEMP H/W MONITOR



VOLTAGE-- H/W MONITOR

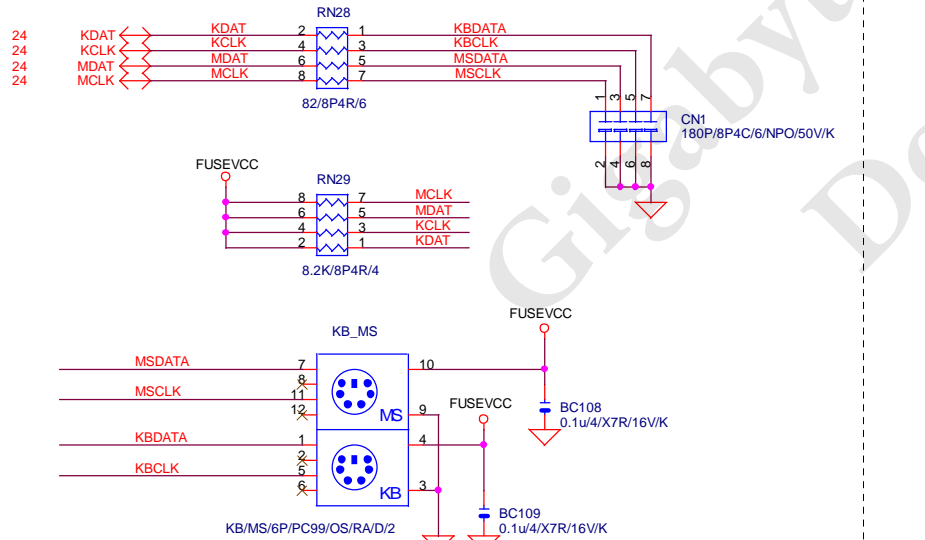


CASE OPEN



Case Open Circuits

KB/MS

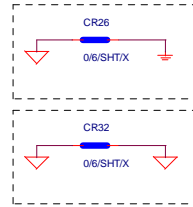
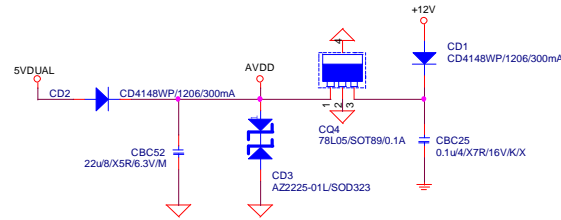


BACKUP BIOS

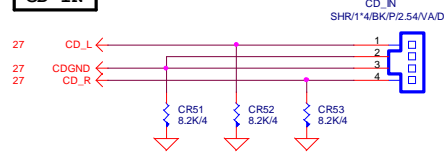
Gigabyte Technology

Title			HW-MONITOR/CI/KB/MS/BIOS	
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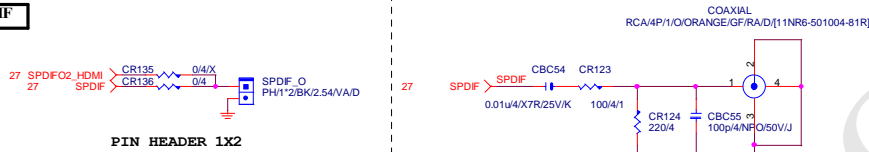
CODEC POWER/EMI PAD



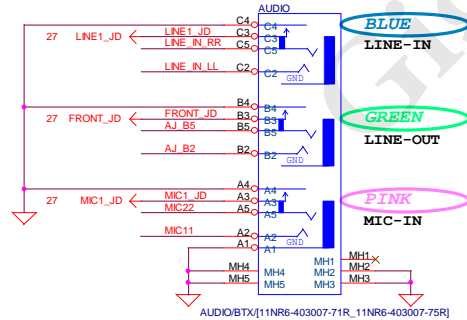
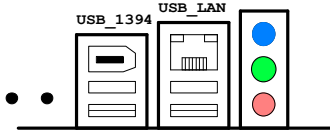
CD IN



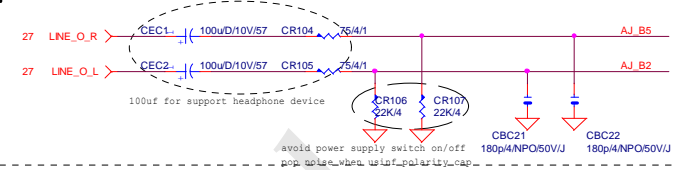
SPDIF



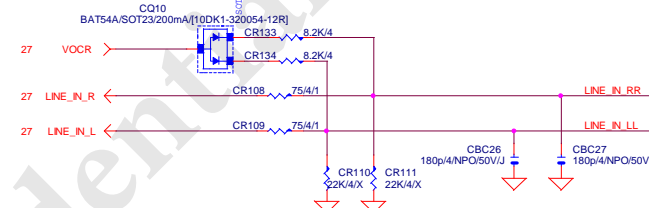
AZALIA JACK



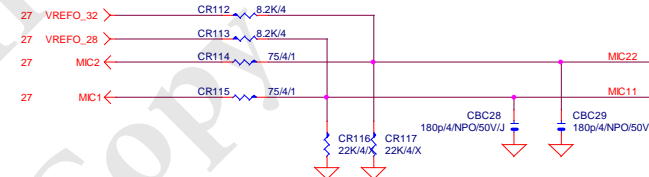
LINE-OUT



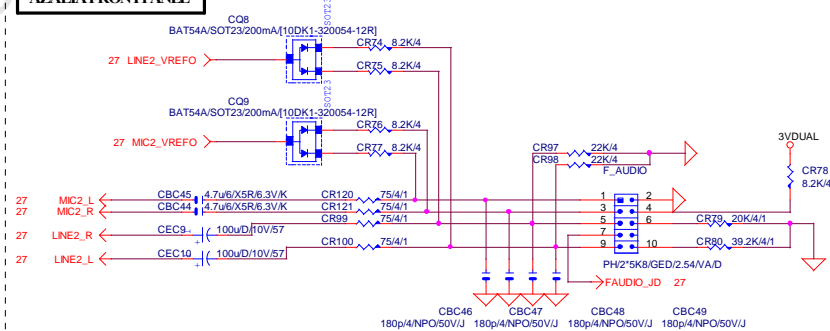
LINE-IN



MIC-IN

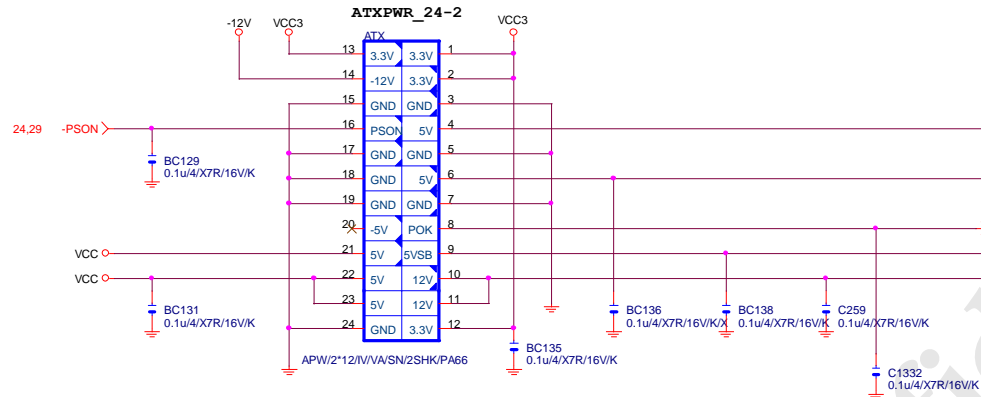


AZALIA FRONT PANEL

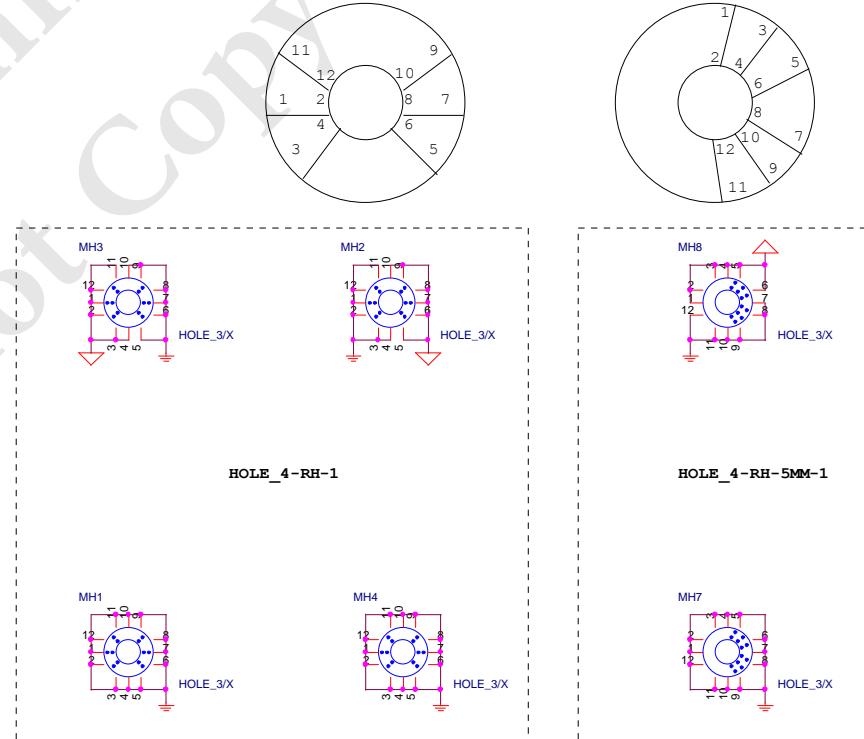
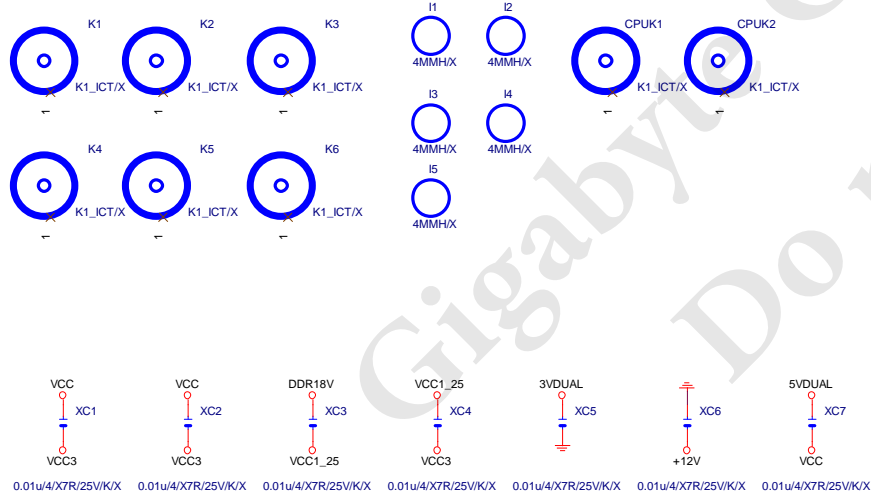
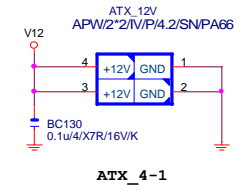
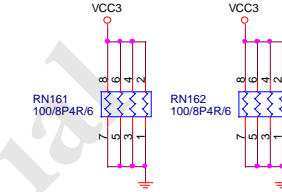


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AUDIO JACK			
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ATX POWER CONNECTOR

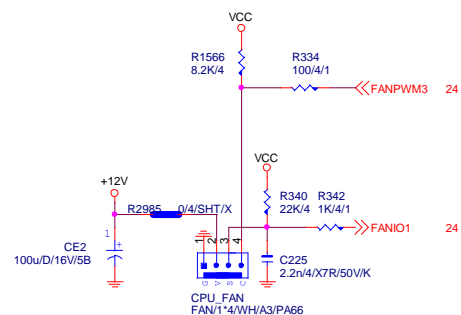


FIX PWR AcBel (ATX-400C-A2ADB)

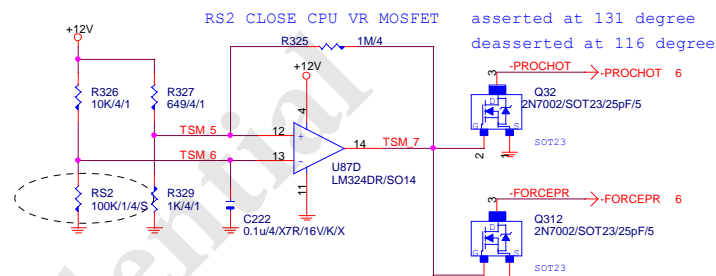


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ATX POWER CONNECTOR			
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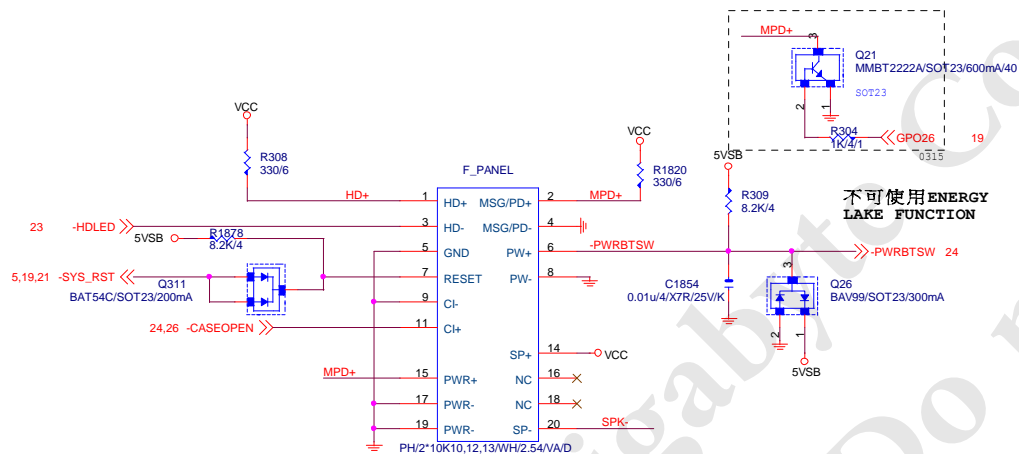
CPU SMART FAN SMART FAN



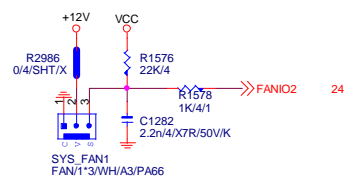
PROCESSOR HOT



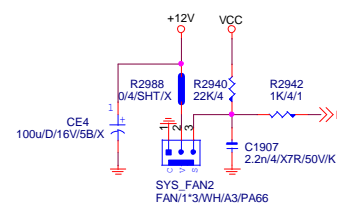
INTEL FRONT PANEL



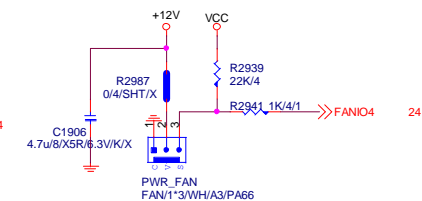
SYS_FAN1



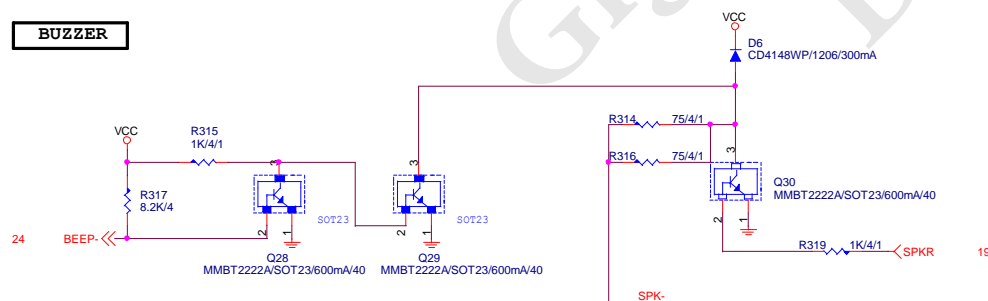
SYS_FAN2



PWR_FAN



BUZZER



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FRONT PANEL / FAN CTRL		
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