

Model Name:GA-P31-ES3G *Revision 1.0*
SHEET **TITLE**

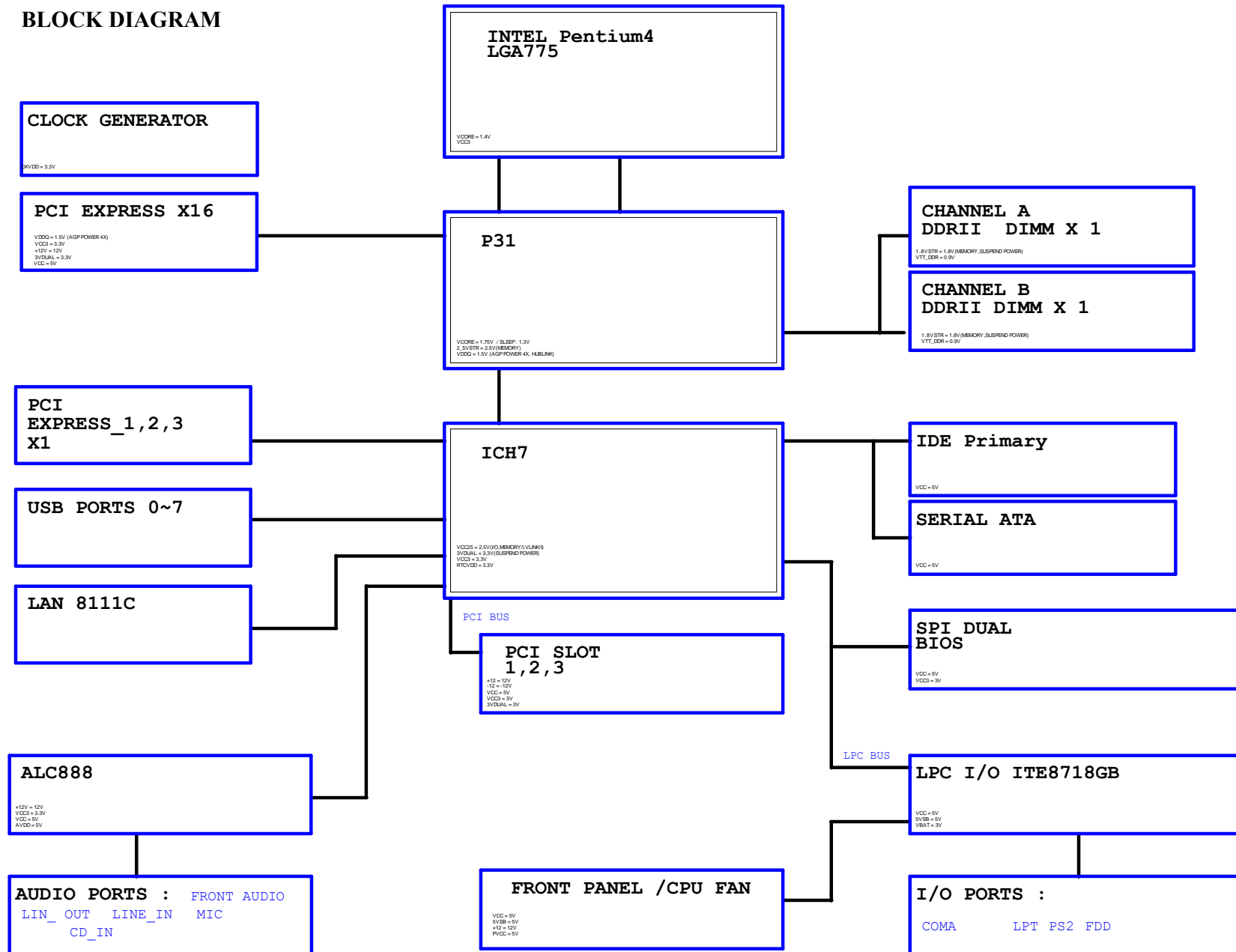
01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	P4 LGA775 A
05	P4 LGA775 B,D
06	P4 LGA775 C
07	P4 LGA775 E,F,G,H
08	P31 HOST
09	P31 DDRII
10	P31 PCI E, DMI
11	P31 VGA
12	P31 GND
13	P31 PWR
14	PCI EXPRESS*16 SLOT
15	DDRII CHANNEL A
16	DDRII CHANNEL B
17	DDRII TERMINATION
18	ICH7 PCI, USB, 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/GX
25	COM LPT
26	CI,HWM,KB/MS,DUAL BIOS
27	ALC888

SHEET **TITLE**

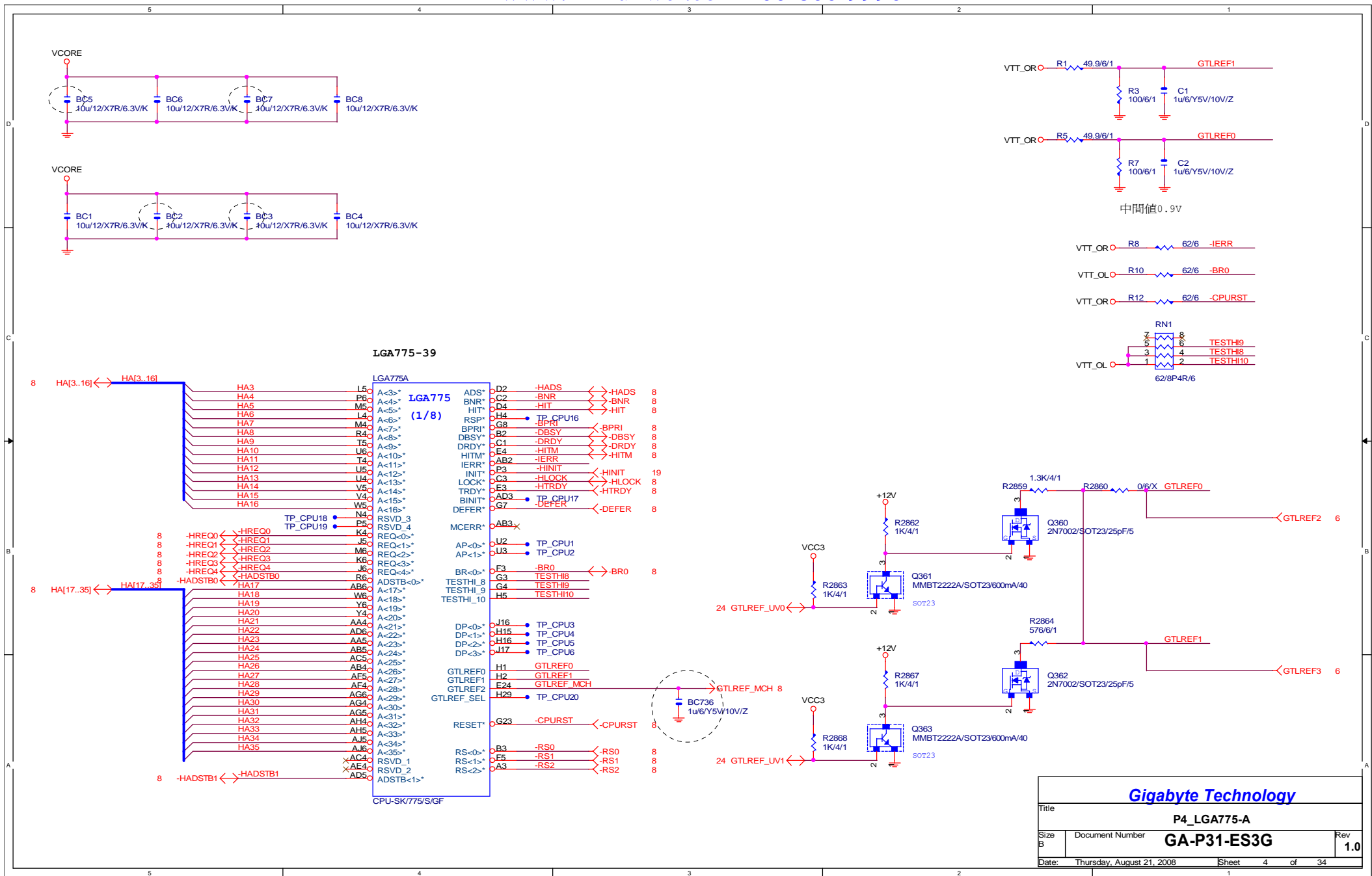
28	REAR AUDIO JACK
29	DISCRETE POWER
30	VCORE PWM ISL6312
31	ATX, OTHERS POWER
32	FRONT PANEL
33	REALTEK RTL8111C
34	PCI SLOT3,PCIE*2,3

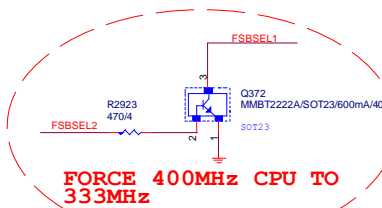
Gigabyte Technology			
Title			
Cover Sheet			
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BLOCK DIAGRAM

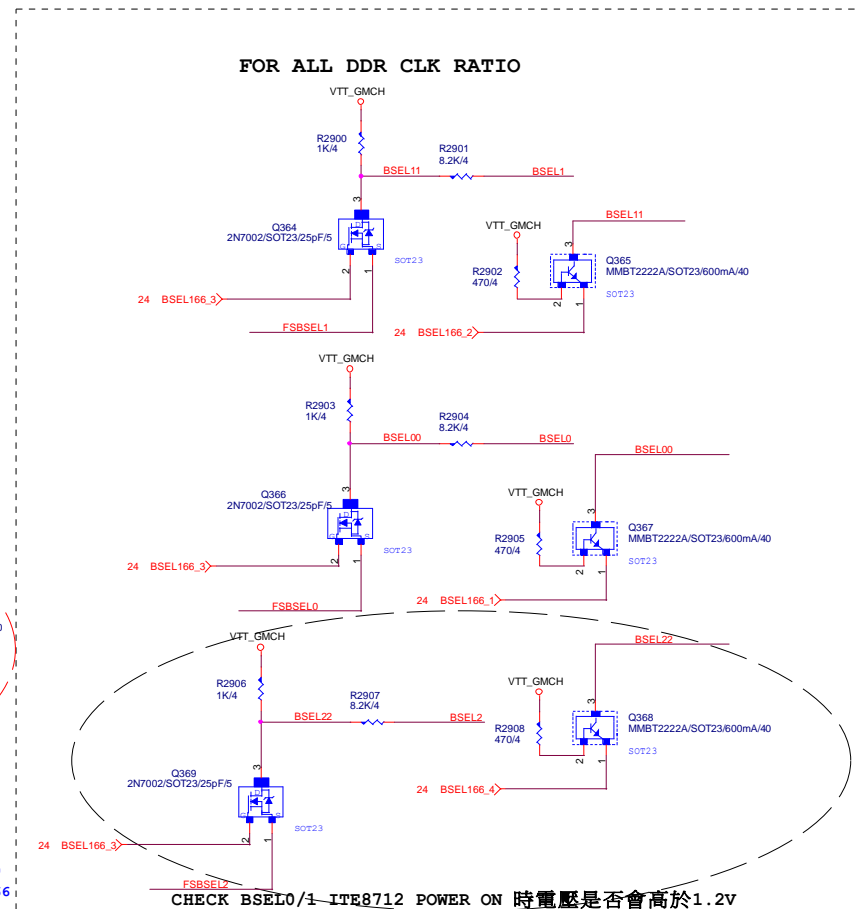


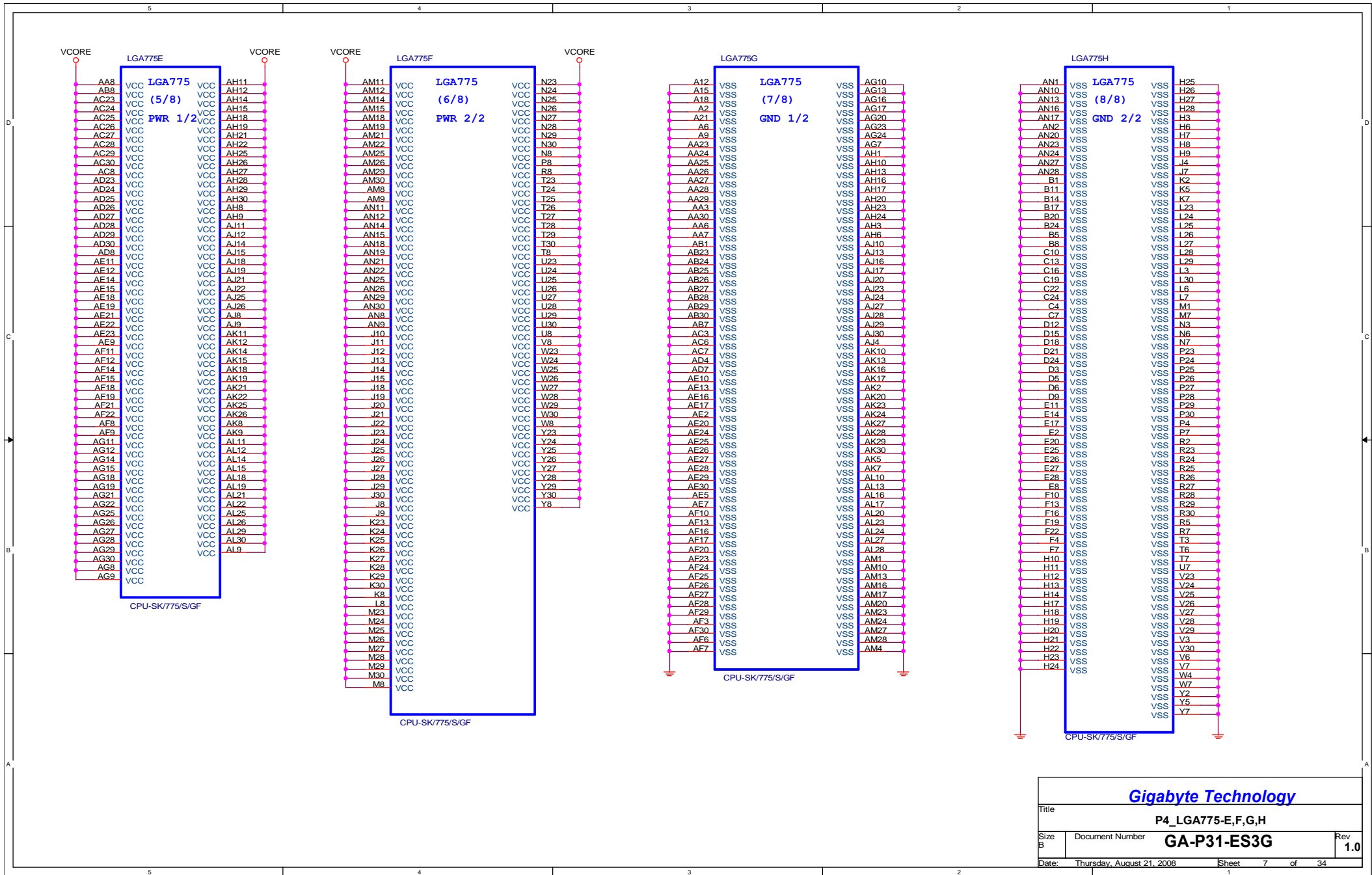
Gigabyte Technology			
BOM & PCB MODIFY HISTORY			
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FSA	FSB	FSC		
FSBSEL0	FSBSEL1	FSBSEL2	Clock	
1	0	1	100MHz	
1	0	0	133MHz	3/4
0	1	0	200MHz	2/2.66/3.33/4
0	0	0	266MHz	2/2.5/3/4
0	0	1	333MHz	2/2.4
0	1	1	400MHz	



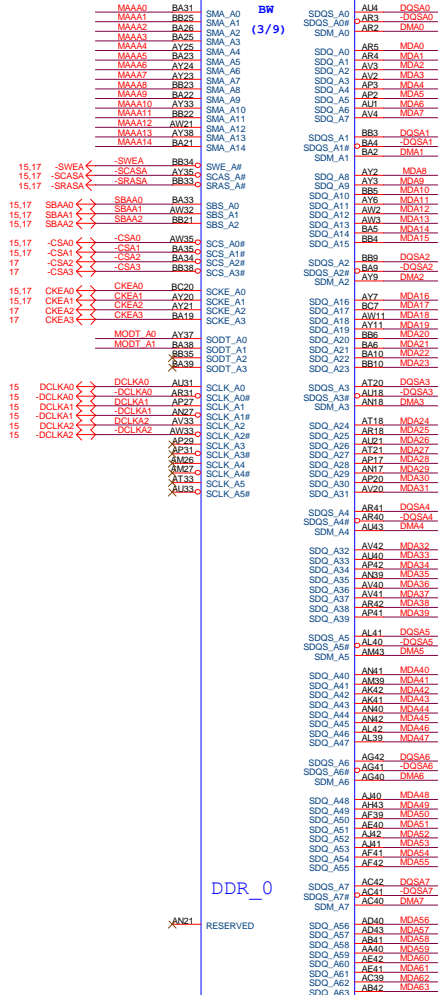


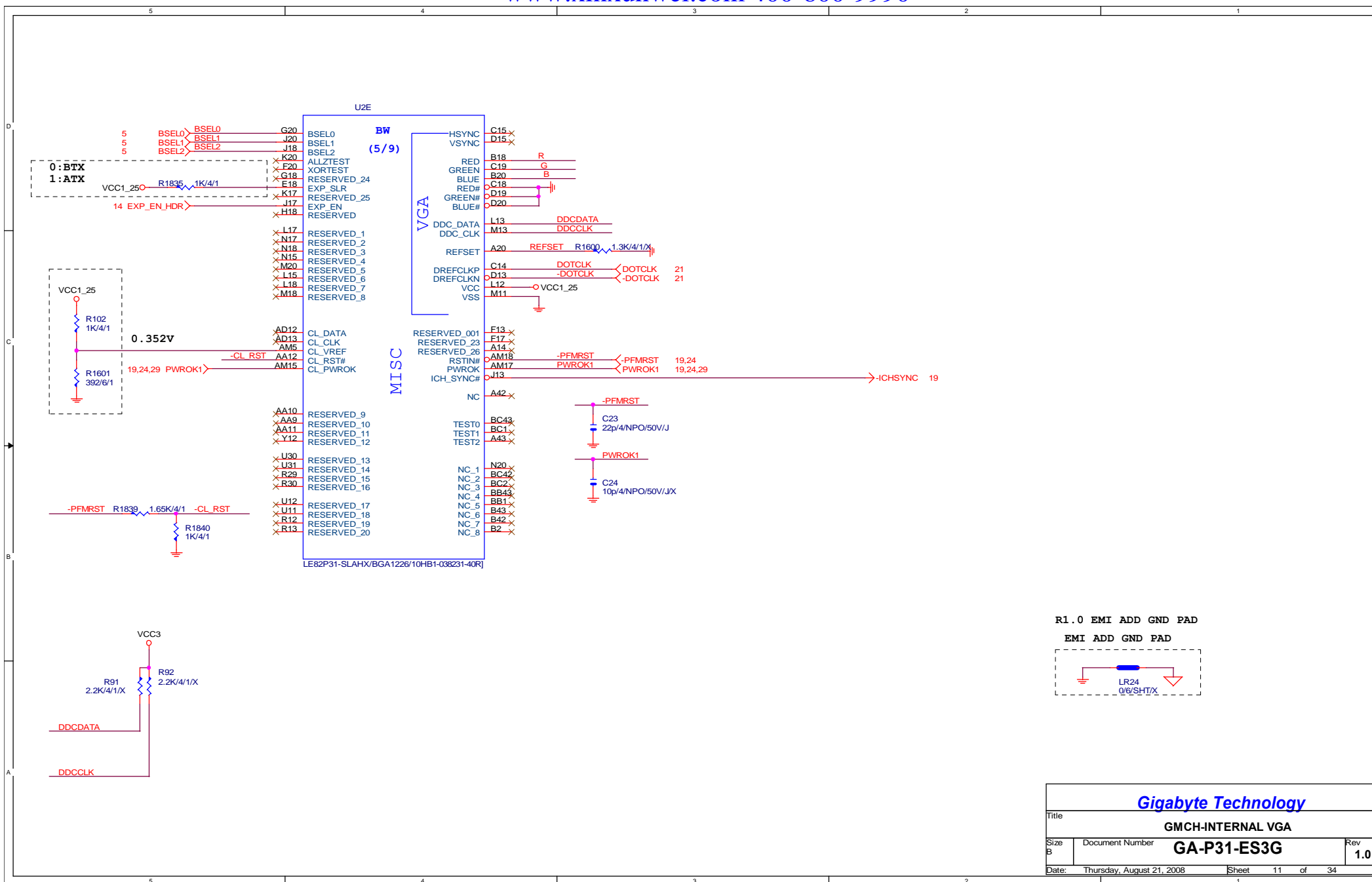
Gigabyte Technology			
Title			
P4_LGA775-E,F,G,H			
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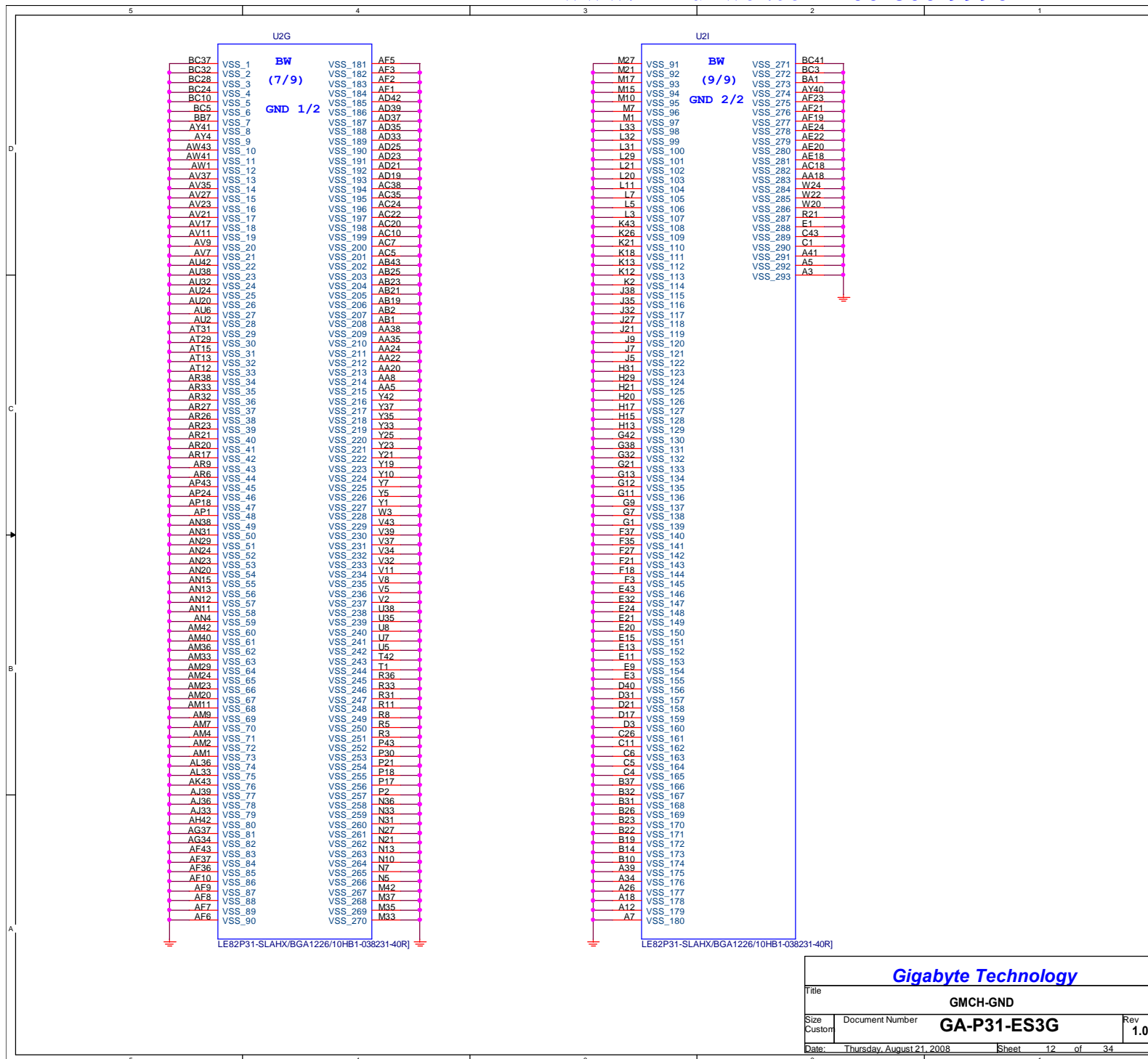
U2C

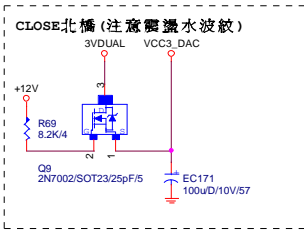
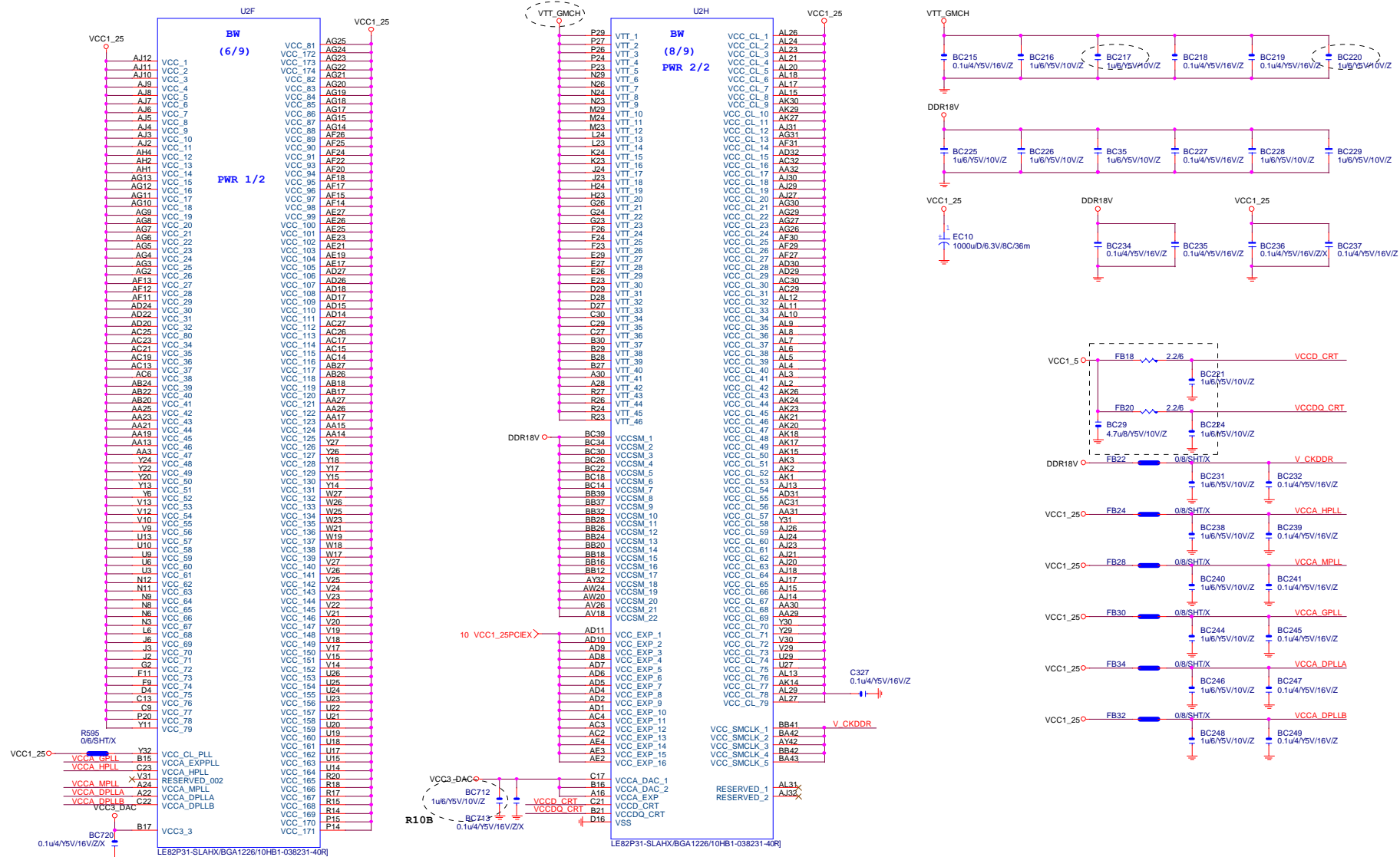
BW
(3/9)





Gigabyte Technology			
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GMCH-INTERNAL VGA			
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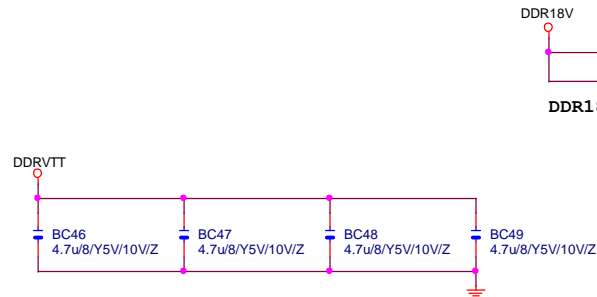


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Title				GMCH-PWR			
Size	Document Number			GA-P31-ES3G			Rev
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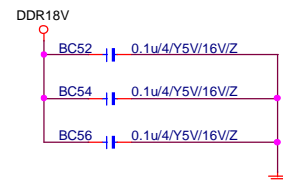


DDR TERMINATION CHANNEL A

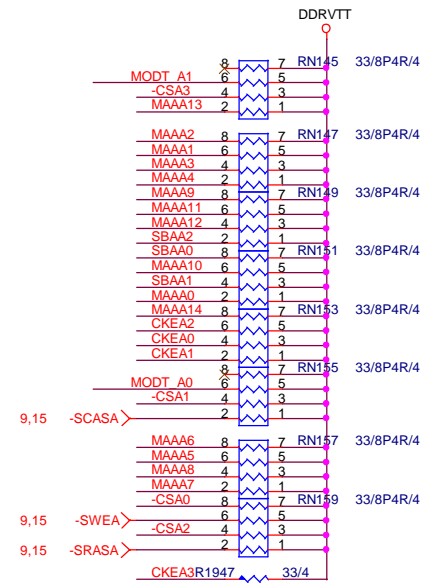
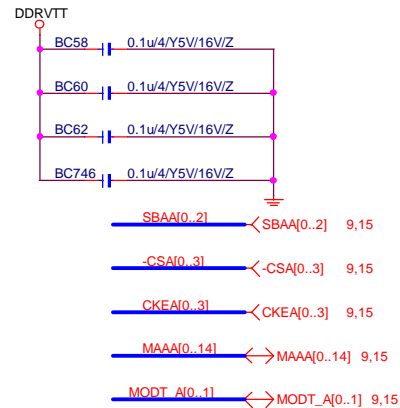
DDRVTT Decouple



DDR18V Decouple

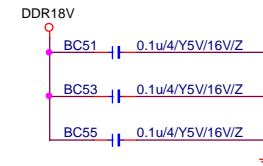


DDRVTT Decouple

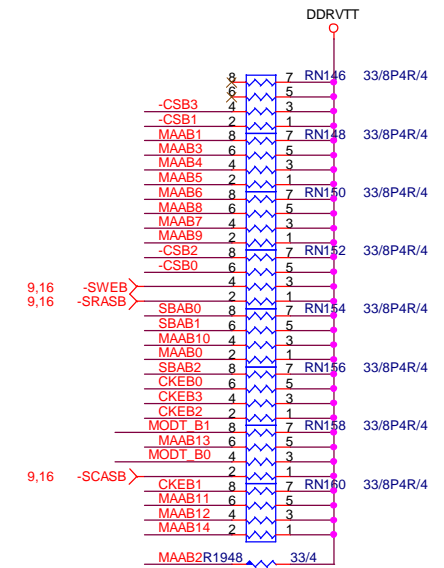
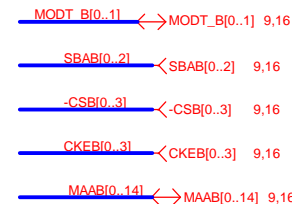
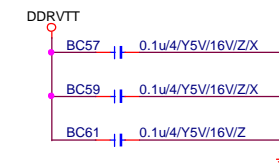


DDR TERMINATION CHANNEL B

DDR18V Decouple



DDRVTT Decouple

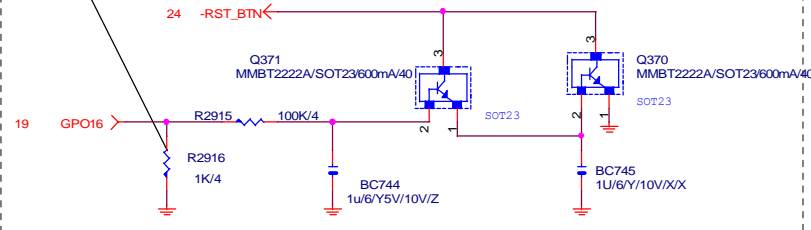


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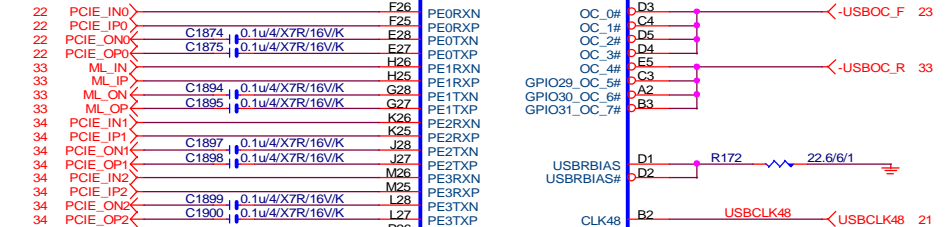
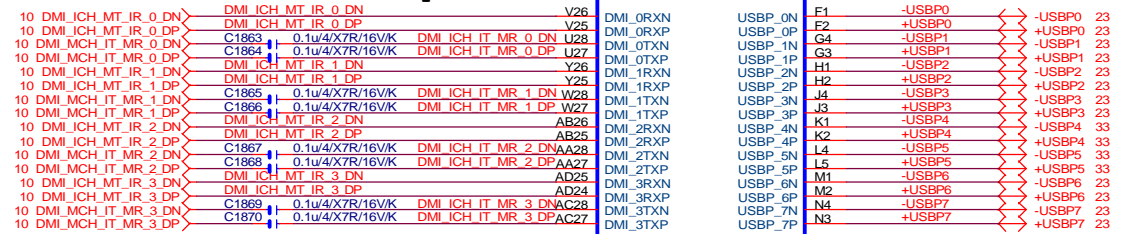
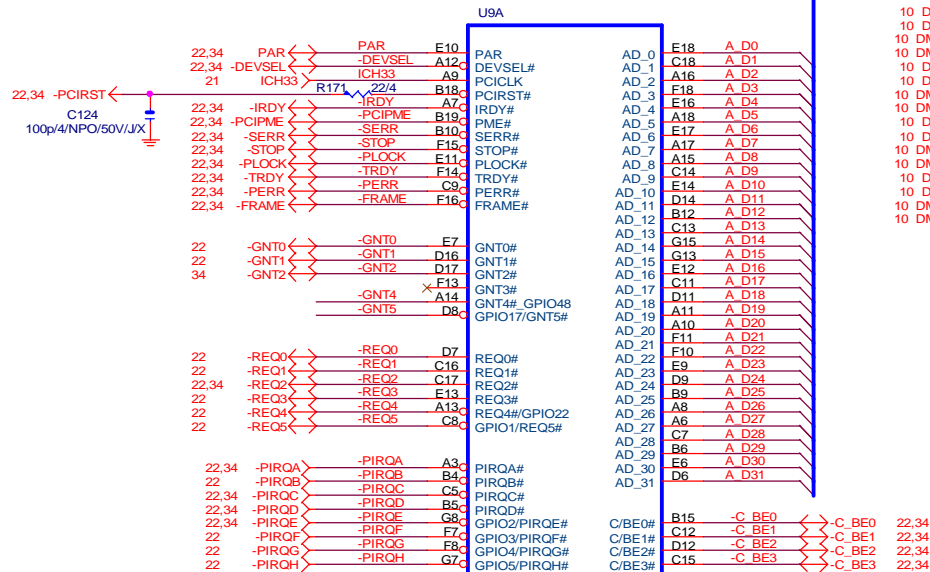
Title			DDRII TERMINATOR
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FOR ICH7R POWER ON 瞬間會HIGH 到1.8V 之後0V,必須PULL DOWN 1K/6

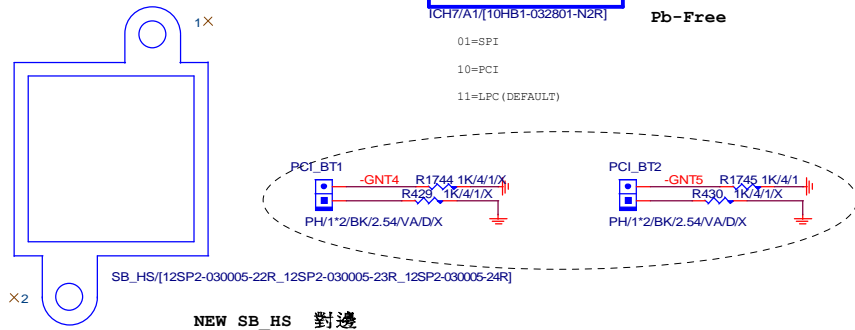
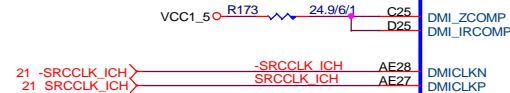
H/W
RESET



Close to ICH
as short as possible



ICH7 ONLY 4 LANE

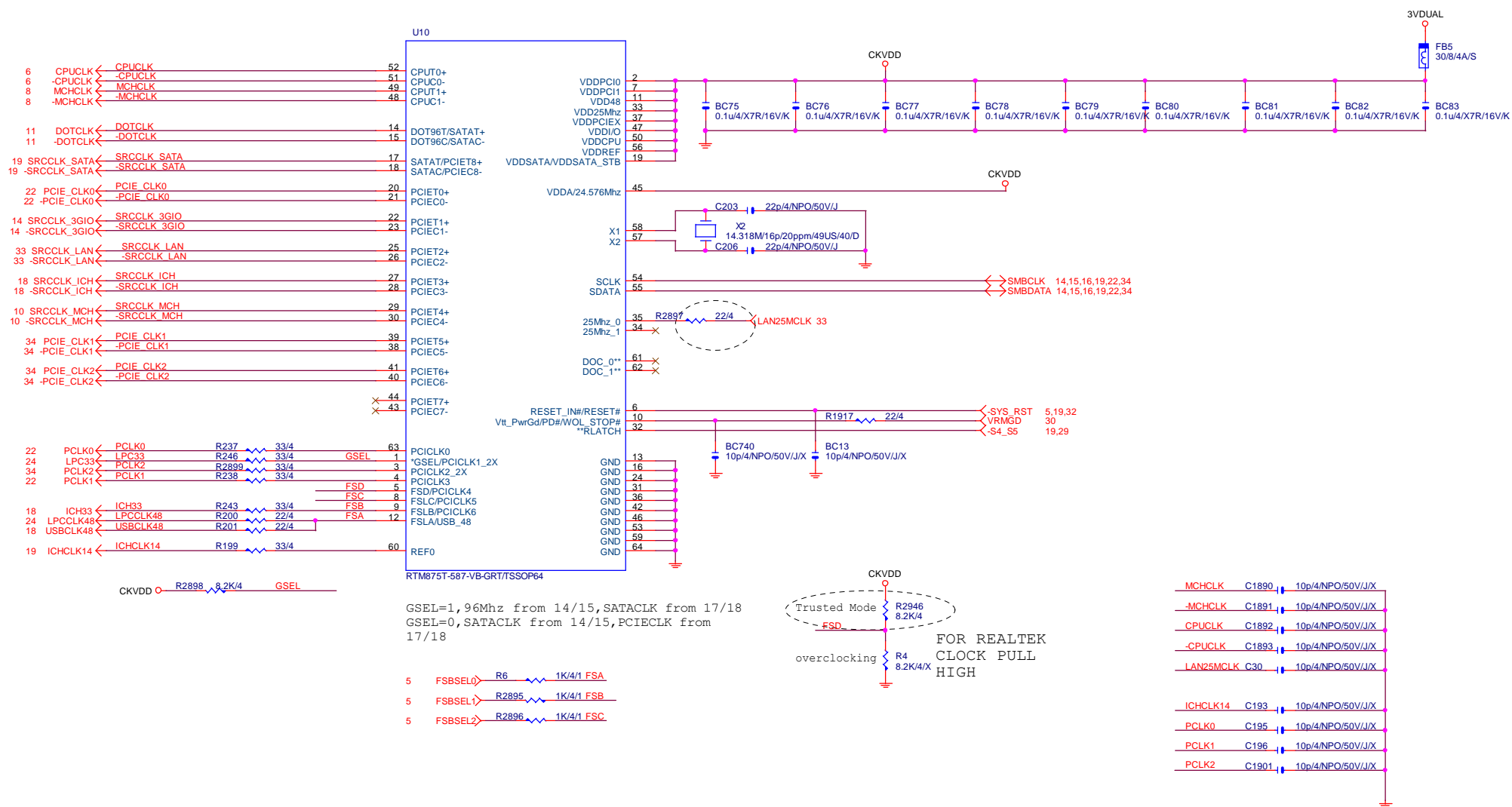


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Title			
ICH7-PCI, DMI, LAN, USB			
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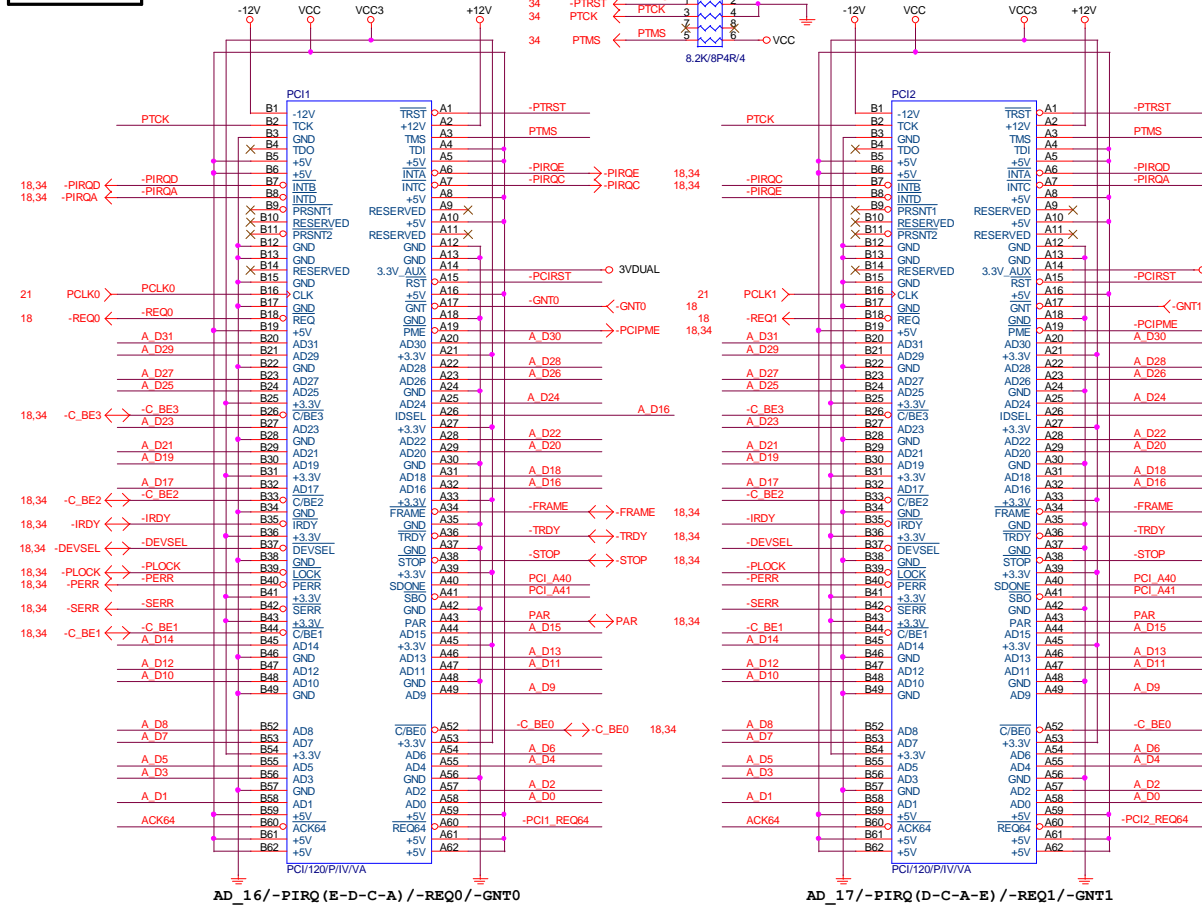
CLK GEN CK505



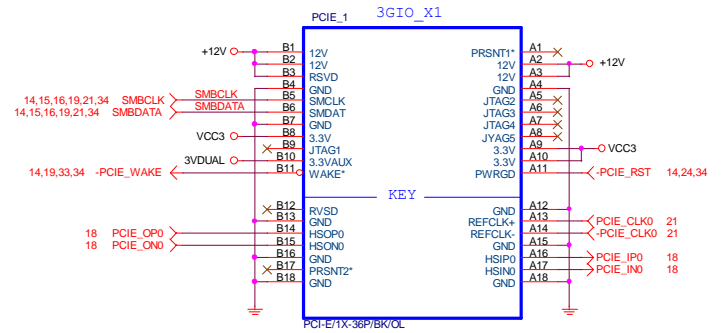
Gigabyte Technology

Title	CK505 CLK GEN		
Size	Document Number	GA-P31-ES3G	
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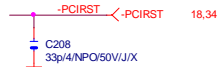
PCI1,2 SLOT



PCIE*1

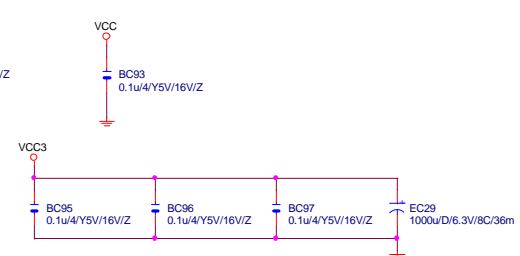
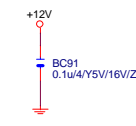
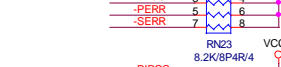
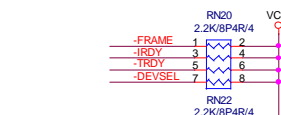
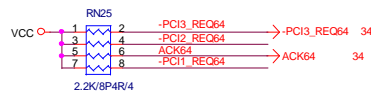
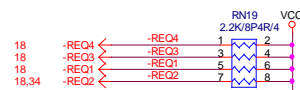


18,34 A_D[0..31] <-> A_D[0..31]



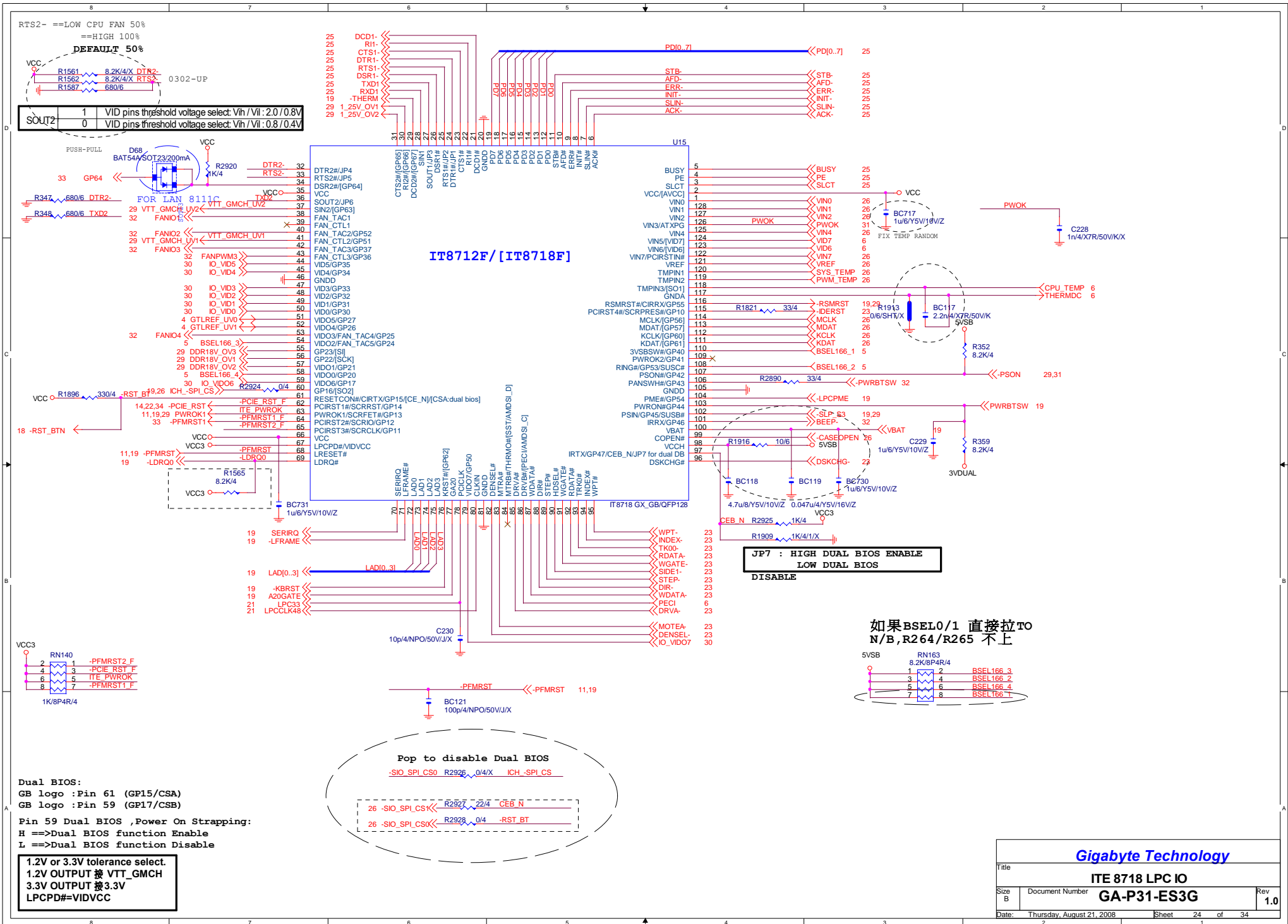
Place close to PCI1

14,15,16,19,21,34 SMBCLK <-> PCI_A40
14,15,16,19,21,34 SMBDATA <-> PCI_A41

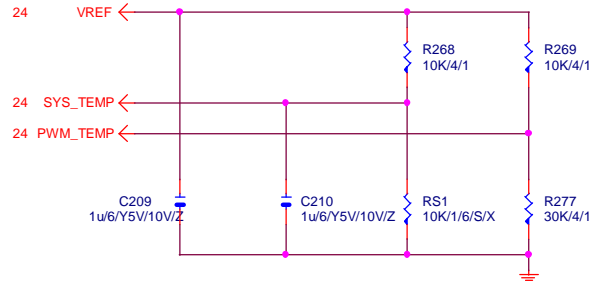


Gigabyte Technology

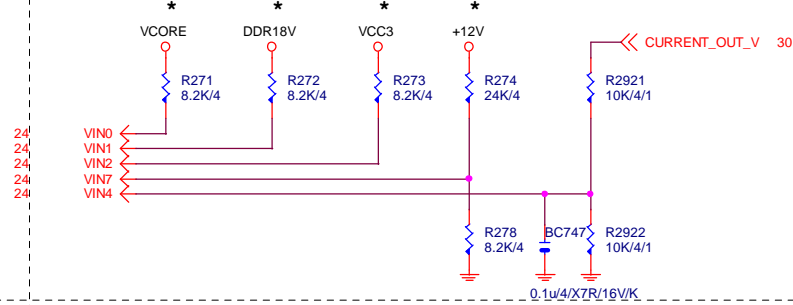
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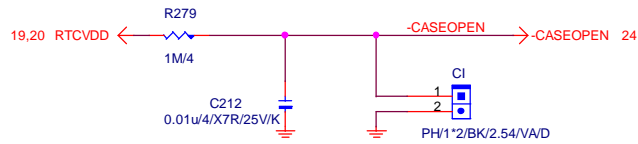
TEMP H/W MONITOR



VOLTAGE-- H/W MONITOR

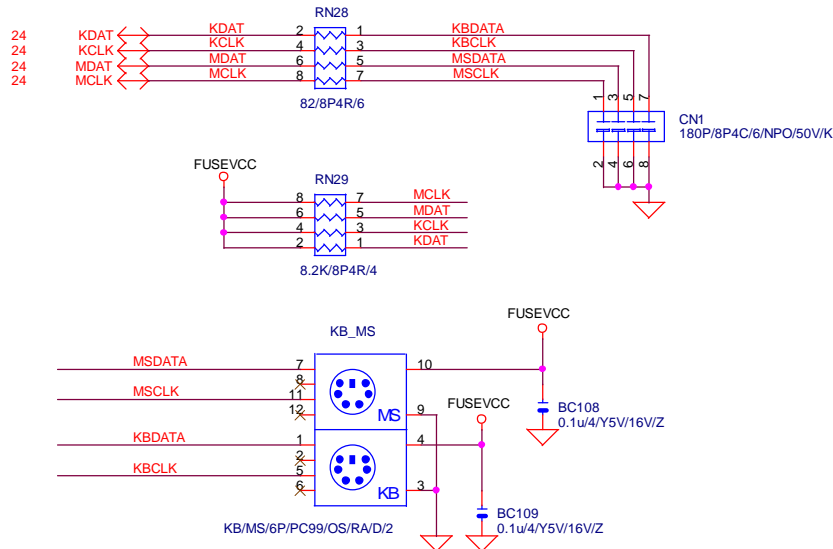


CASE OPEN

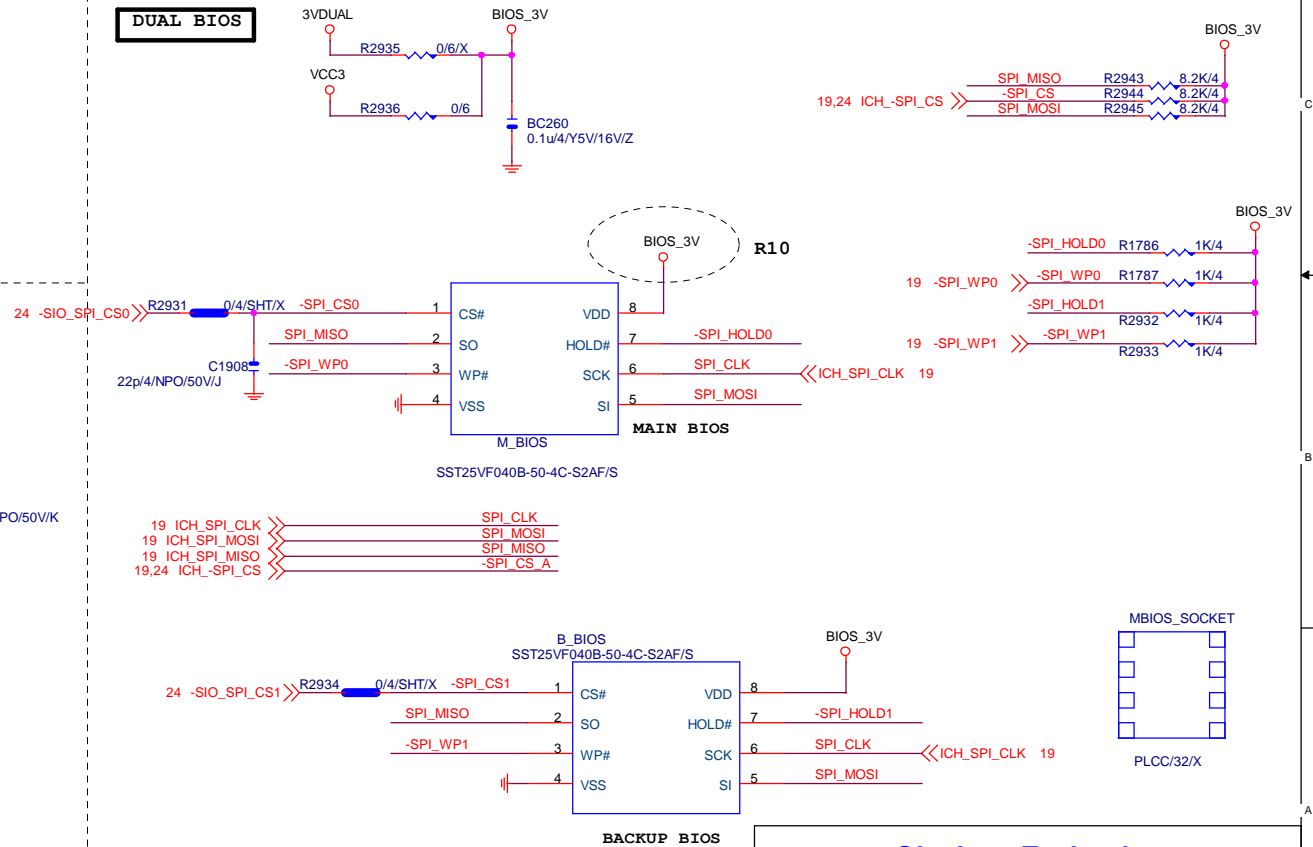


Case Open Circuits

KB/MS



DUAL BIOS



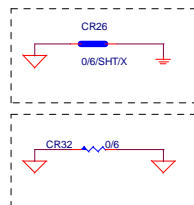
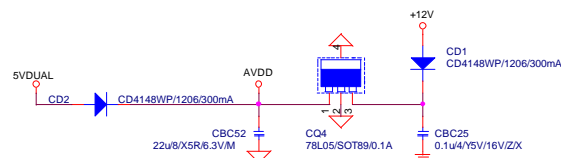
Gigabyte Technology

Title			HW-MONITOR/CI/KB/MS/BIOS	
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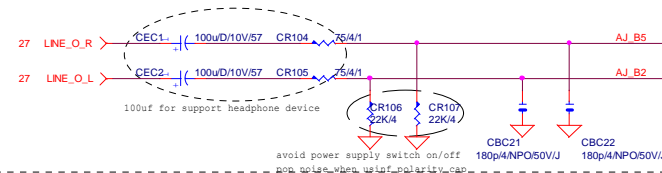


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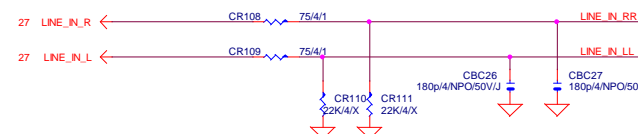
CODEC POWER/EMI PAD



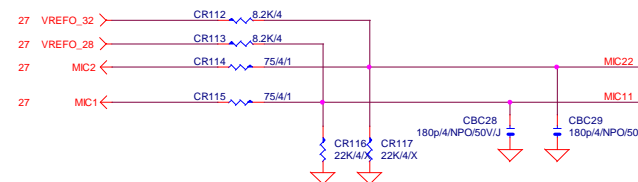
LINE-OUT



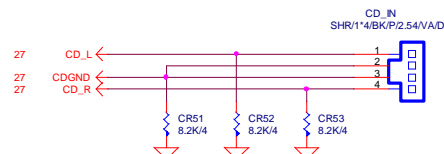
LINE-IN



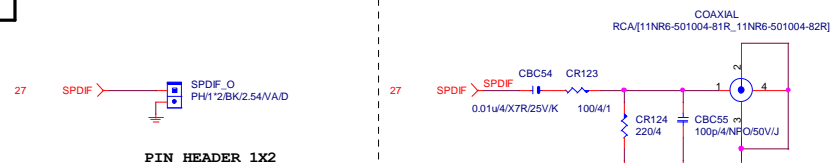
MIC-IN



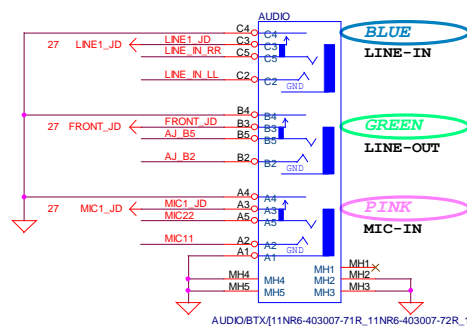
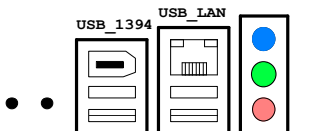
CD IN



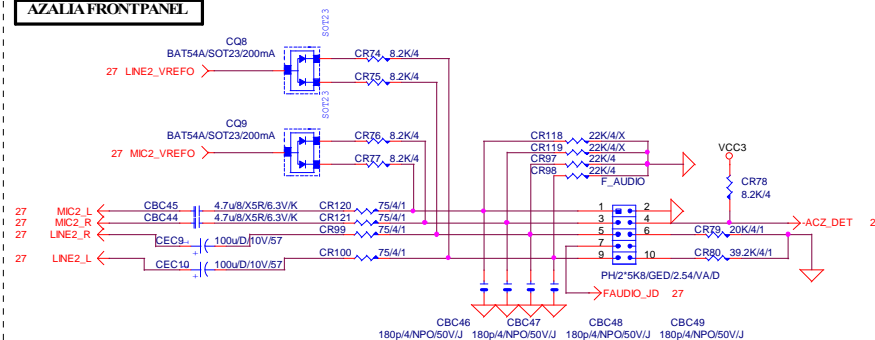
SPDIF



AZALIA JACK

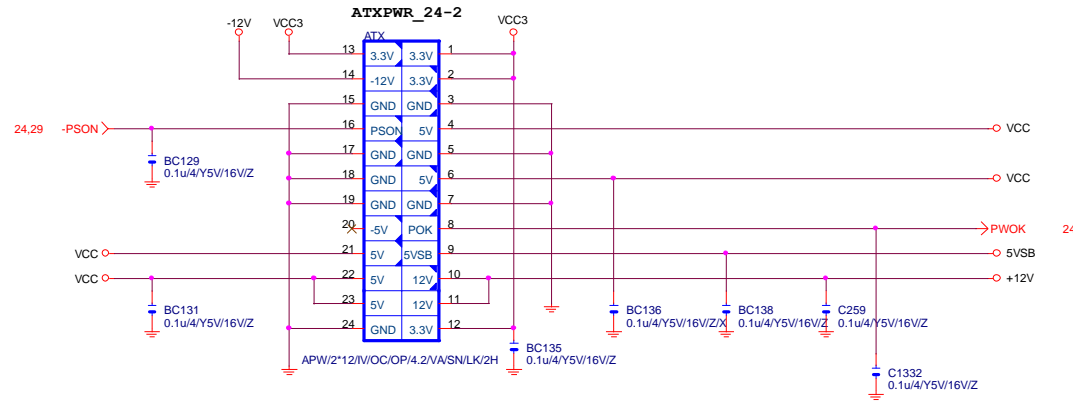


AZALIA FRONT PANEL

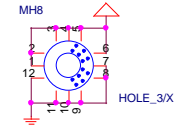
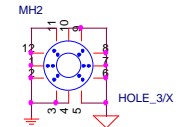
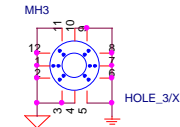
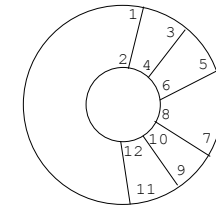
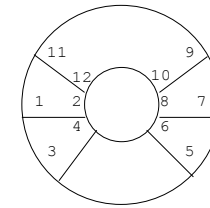
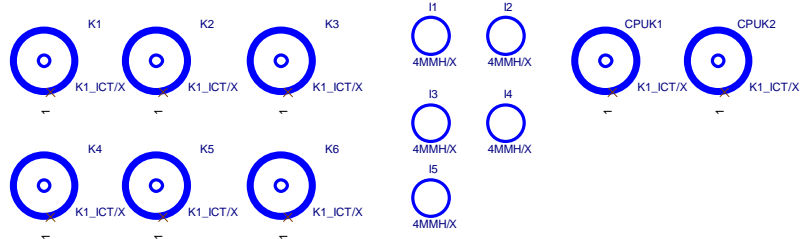
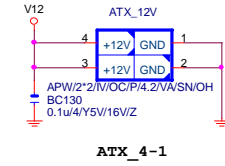
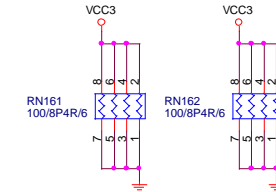


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AUDIO JACK			
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ATX POWER CONNECTOR

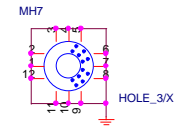
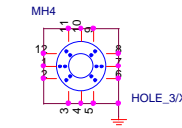
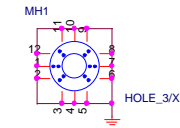


FIX FWR AcBel (ATX-400C-A2ADB)



HOLE_4-RH

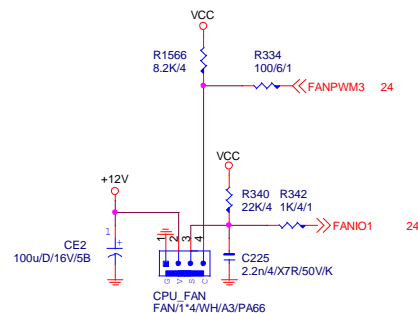
HOLE_4-RH-5MM



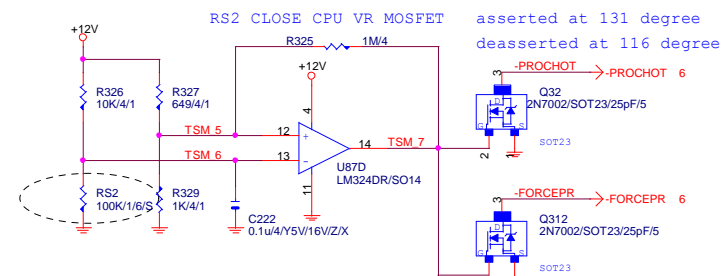
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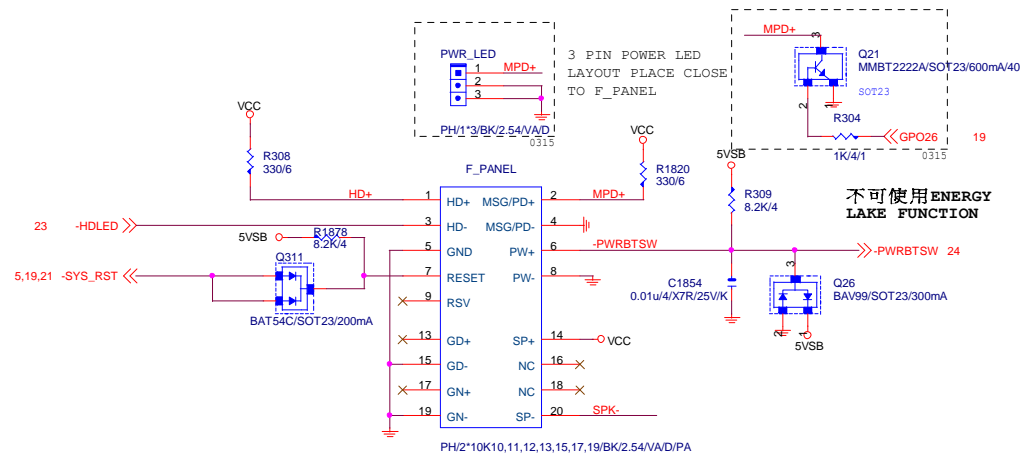
CPU SMART FAN SMART FAN



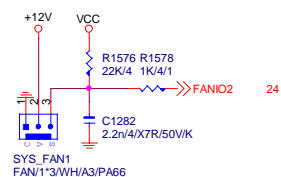
PROCESSOR HOT



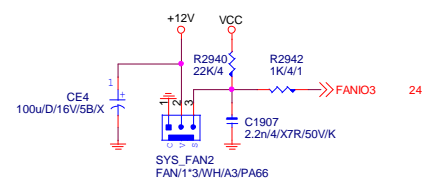
INTEL FRONT PANEL



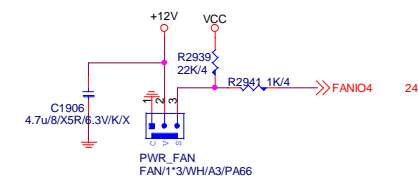
SYS_FAN1



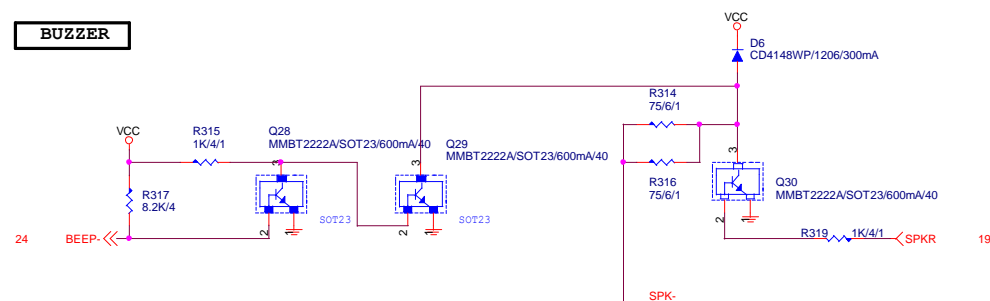
SYS_FAN2



PWR_FAN



BUZZER



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FRONT PANEL / FAN CTRL		
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