

Model Name: GA-P55M-UD2 1.0

SHEET TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU LGA1156-A
05	CPU LGA1156-B
06	CPU LGA1156-C
07	DDR III CHANNEL A
08	DDR III CHANNEL B
09	DDR III POWER CAP
10	PCI EXPRESS*16 SLOT
11	PCH FDI,DMI,USB,PCIE,NVRAM
12	PCH DP,CLK BUFFER
13	PCH HOST,SATA,PCI
14	PCH GPIO,CTRL,AUDIO
15	PCH PWR,GND
16	PCI EXPRESS*4 SLOT
17	PCI EXPRESS*1 SLOTS X3
18	PCI SLOT X2
19	ITE 8720 LPC IO
20	COM, -PROHOT , DYNAMIC OC , LPT
21	Dual BIOS
22	ALC888/889A
23	REAR AUDIO JACK
24	CLOCK GEN ICS9LPRS914
25	VCORE PWM ISL6334CR-1
26	VCORE PWM ISL6334CR-2
27	DISCRETE POWER I

SHEET TITLE

28	DDR 15V & VCC1 05 PCH PWM ISL6545CBZ
29	CPU VAXG PWM ISL6314CRZ
30	CPU VTT PWM ISL6322G
31	F PANEL , F USB , FDD
32	ATX POWER
33	Marvell 88SE9123
34	REALTEK RTL8111DL
35	REALTEK RTL8111DL 1
36	TI TSB43AB23 1394
37	HWM,KB/MS , FAN CTRL
38	TPM SLB9635TT
39	ESATA JMB362
40	TABLE LIST
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GA-P55M-UD2 Version: 1.0

Component value change history

Data	Change Item	Reason
0.1	1. 9ME55QD3R-00-01	
EP55A-UD3P 0.1	1. Add R687,BC241 For ISL8014 VDD PIN	
	2. IDE Conn. change 直立式	
	3. ADD CPU RM	
	4. CPU_VAXG R153 --> R151 68K/4/1 , R127 20K/4/1 --> 42K/4/1 , BC60 0.1u --> 1n/4	
	5. DIMM & LPT COLOR --> BLUE	
	6. REMOVE 7474 , CHANGE TO ITE8720/JX	
	7. CLK阻值調整	
	8. PCIE16 CHANGE TO RIGHT EJECTOR	
	9. 0.5uH --> 1.0uH 含阻值修改	
EP55A-UD3P 0.2	1. CHECK +12V SHORT PAD FOR 10mil	
	2. F1_1394加蓋(包材階)	
	3. ADD DR86=124K/4/1 , DR88=249K/4/1	
	4. U12~U15 upi6262M --> upi6267M	
	5. DRAM_PWROK R490=1K/4/1 , R491=3K/4/1	
	6. REMOVE DR138=0/4 , ADD DR139,DR141=0/4	
	7. RU2指定料號:10HP4-112540-11R	
	8. 排阻指定廠牌用WALSIN	
	9. LU1,LU4 RTL8111D --> RTL8111C	
	10. PCB "育富"移除	
	11. ONFI指定用11SML-600078-02R	
	12. R376 2.26K/4/1 --> 2.55K/4/1	
	13. 確認上哪種upi6262 10%/upi6267?	
	14. FB7~FB10 REMOVE	
	15. PCH BUFFER 25MHz REMOVE "X2,C93,C94,R420"	
	16. BIOS 16M --> 32M (FOR ONFI ONBOARD)	
P55M-UD4	1. RTL8111C --> RTC8111D (是否上新板VB?)	
P55M-UD2 0.2	1. ADD PACKAGE F1 1394 2. P55 REV.B1 --> REV.B2 3. VCC1_05_PCH --> OP+MOS	
P55M-UD2 1.0	1. CHECK POWER SEQUENCY FOR VCC1_05_PCH 3. REMOVE PLL_22U 2. PROCHOT阻值修改 4. Q73,Q74 UPA2724 --> UPA2726	

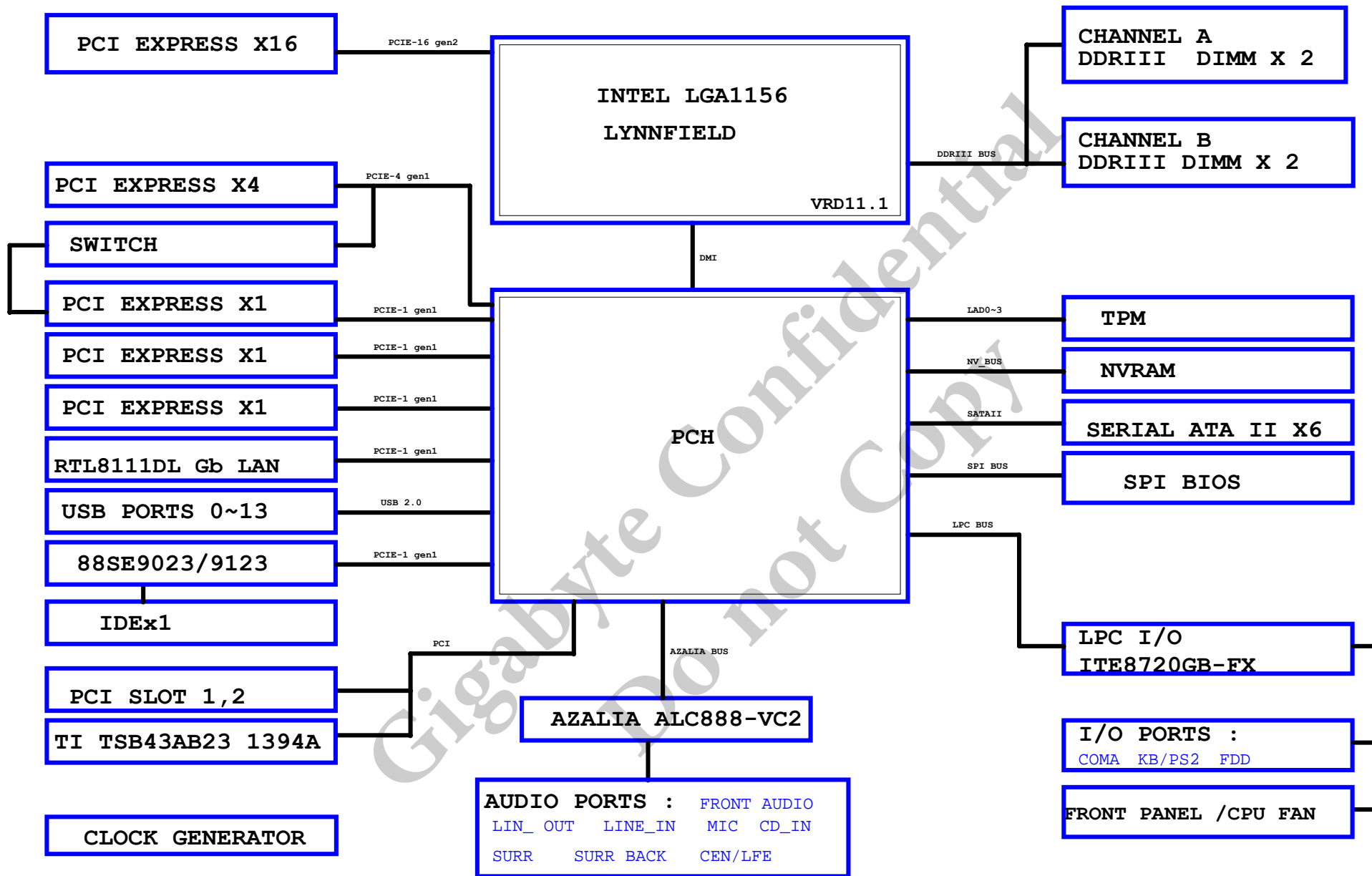
Circuit or PCB layout change for next version

DATE	Change Item	Reason
EP55-UD3R 0.1	1. 9ME55QD3R-00-01	
EP55A-UD3P 0.1	1. FWR_LED GPIO46 --> GPIO20	
	2. CHECK DDR3 LAYER RULE UPDATE (DDR3 LIBRARY UPDATE)	
	3. ADD F_PANEL RESET & BOTTOM ESD PROTECT	
	4. CPU ISENSE & IOUT ADD CONTROL CIRCUIT	
	5. RESET 7474 COST DOWN CHECK	
	6. SRCCLK_CKG TRACE CHANGE TO TOP	
	7. USBP12 , USBP13 +- SWAP NET	
	8. +12V PROTECT Q91 ADD Damping Resistor "R748"	
	9. 零件位置BAT移出至BAT外框	
	10. X3與CLR_CMOS距離不足5mm	
	11. Remove 0 ohm	
	12. CPU_VTT ADD背面電容SBC9,SBC10	
	13. CPU_VTT ADD VTT_SENSE , VTT_VSS	
	14. MODIFY PCIEX4 & PCIEX1 SELECT "-4X_EN"	
	15. ADD ESATA JMB362	
	16. ITE8275 PATCH -SYS_RST 漏電	
	17. DRAM_PWROK 留Damping 電阻	
	18. DRIVER的PIN5 GND走線與GATE同粗	
	19. LAN CTRL18為PHASE須在第二層做隔離	
EP55A-UD3P 0.2	1. REMOVE AUDIO ESD	
	2. REMOVE CPU_VAXG	
	3. PCH_CLK 改 SHORT PAD (0 ohm維持10pcs以下)	
	4. ITE8275 GPIO11,GPIO13 TO TURBO0/TURBO1	
	5. F_PANEL UPDATE H2X10PANEL-1	
	6. ONFI 改 ON BOARD	
	7. 1394 "IEC1" NET SWAP & SHORT PROTECT	
	8. PIN HEATER CHECK	
	9. ITE8275 SYS_RST PATCH	
	10. BC118,BC119 --> TBC29,TBC30	
	11. BC5靠近M_BIOS PIN8 , BC6靠近M_BIOS PIN8	
	12. U2 7474 REMOVE	

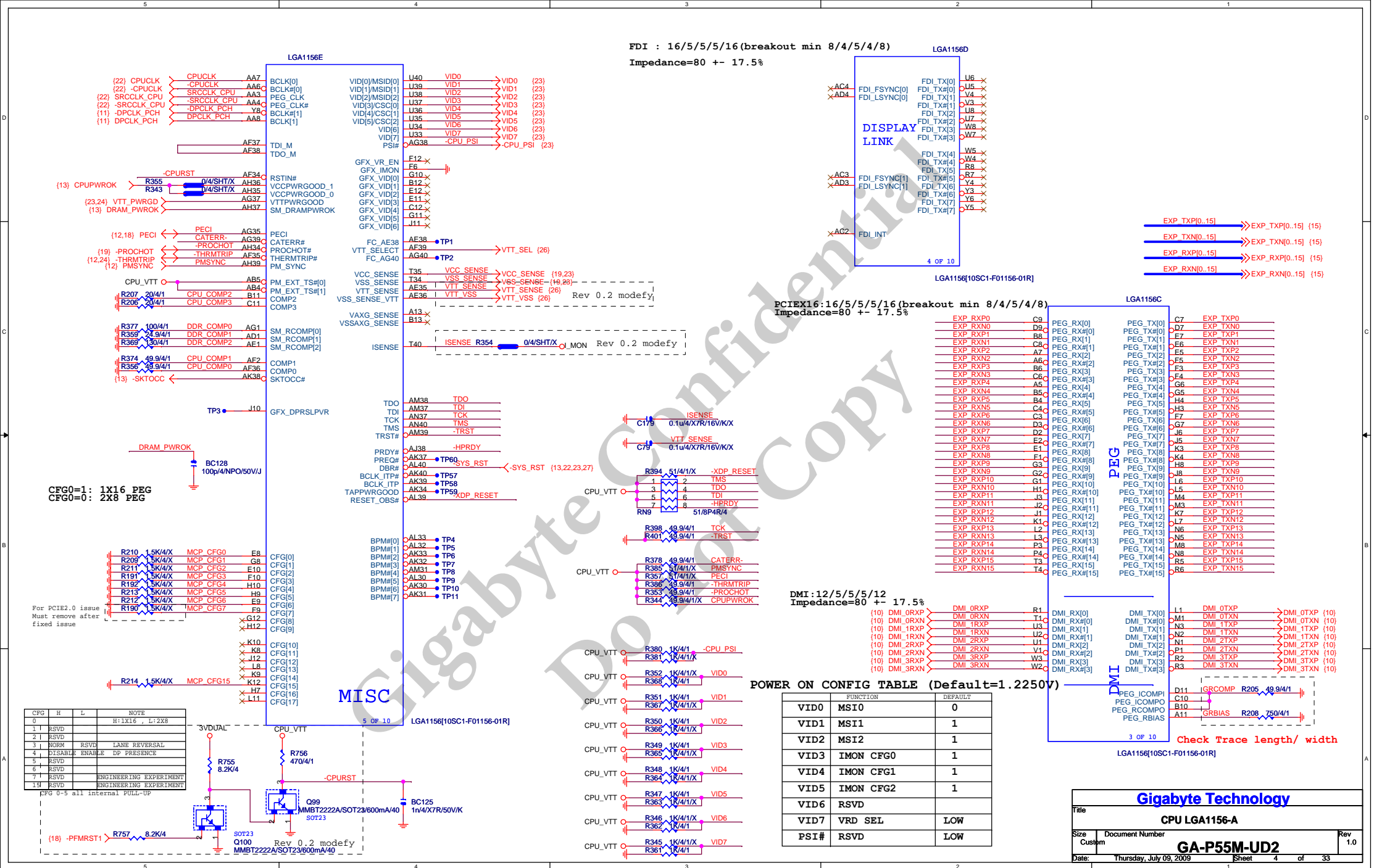
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BLOCK DIAGRAM



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	MAAA0	AW18	SA_MA[0]	SA_DS[0]	AK3	DQSA0	
	MAAA1	AY15	SA_MA[1]	SA_DS[1]	AJ3	-DQSA0	
	MAAA2	AV15	SA_MA[2]	SA_DM[0]	AJ2	DMA0	
	MAAA3	AU15	SA_MA[3]				
	MAAA4	AW14	SA_MA[4]	SA_DS[0]	AH1	MDA0	
	MAAA5	AY13	SA_MA[5]	SA_DS[1]	AJ4	MDA1	
	MAAA6	AV14	SA_MA[6]	SA_DS[2]	AL2	MDA2	
	MAAA7	AW13	SA_MA[7]	SA_DS[3]	AL1	MDA3	
	MAAA8	AU14	SA_MA[8]	SA_DS[4]	AG2	MDA4	
	MAAA9	AW12	SA_MA[9]	SA_DS[5]	AH2	MDA5	
	MAAA10	AT19	SA_MA[10]	SA_DS[6]	AK1	MDA6	
	MAAA11	AU13	SA_MA[11]	SA_DS[7]	AK2	MDA7	
	MAAA12	AW11	SA_MA[12]				
	MAAA13	AU24	SA_MA[13]	SA_DS[11]	AP2	DQSA1	
	MAAA14	AT11	SA_MA[14]	SA_DS[11]	AP3	-DQSA1	
	MAAA15	AR10	SA_MA[15]	SA_DM[1]	AN1	DMA1	
(7) -SWEA	-SWEA	AT22	SA_WE#	SA_DS[8]	AN3	MDA8	
(7) -SCASA	-SCASA	AU22	SA_CS#	SA_DS[9]	AN2	MDA9	
(7) -SRASA	-SRASA	AT20	SA_RAS#	SA_DS[10]	AR3	MDA10	
				SA_DS[11]	AR2	MDA11	
(7) SBAA0	SBAA0	AV20	SA_BS[0]	SA_DS[12]	AM3	MDA12	
(7) SBAA1	SBAA1	AU19	SA_BS[1]	SA_DS[13]	AM2	MDA13	
(7) SBAA2	SBAA2	AU12	SA_BS[2]	SA_DS[14]	AP1	MDA14	
				SA_DS[15]	AR4	MDA15	
(7) -CSA0	-CSA0	AV21	SA_CS#0	SA_DS[2]	AL4	DQSA2	
(7) -CSA1	-CSA1	AW24	SA_CS#1	SA_DS[2]	AL3	-DQSA2	
(7) -CSA2	-CSA2	AU21	SA_CS#2	SA_DS[2]	SA_DM[2]	AL1	DMA2
(7) -CSA3	-CSA3	AU23	SA_CS#3				
(7) CKEA0	CKEA0	AU10	SA_CKE[0]	SA_DS[16]	AT4	MDA16	
(7) CKEA1	CKEA1	AW10	SA_CKE[1]	SA_DS[17]	AJ2	MDA17	
(7) CKEA2	CKEA2	AV10	SA_CKE[2]	SA_DS[18]	AW3	MDA18	
(7) CKEA3	CKEA3	AY10	SA_CKE[3]	SA_DS[19]	AW4	MDA19	
				SA_DS[20]	AT3	MDA20	
				SA_DS[21]	AT1	MDA21	
				SA_DS[22]	AV2	MDA22	
				SA_DS[23]	AV4	MDA23	
	MODT_A0	AV23	SA_ODT[0]	SA_DS[3]	AY6	DQSA3	
	MODT_A1	AV24	SA_ODT[1]	SA_DS[3]	AW6	-DQSA3	
	MODT_A2	AW23	SA_ODT[2]	SA_DM[3]	AW6	DMA3	
	MODT_A3	AY24	SA_ODT[3]				
(7) DCLKA0	DCLKA0	AR22	SA_CK[0]	SA_DS[24]	AW5	MDA24	
(7) DCLKA0	DCLKA0	AR21	SA_CK[0]	SA_DS[25]	AW5	MDA25	
(7) DCLKA1	DCLKA1	AP18	SA_CK[1]	SA_DS[26]	AJ8	MDA26	
(7) DCLKA1	DCLKA1	AN18	SA_CK[1]	SA_DS[27]	AW8	MDA27	
(7) DCLKA2	DCLKA2	AP21	SA_CK[2]	SA_CK[2]	AJ5	MDA28	
(7) DCLKA2	DCLKA2	AP19	SA_CK[2]	SA_CK[3]	AW6	MDA29	
(7) DCLKA3	DCLKA3	AP19	SA_CK[3]	SA_DS[29]	AV7	MDA30	
(7) DCLKA3	DCLKA3	AN19	SA_CK[3]	SA_DS[30]	AW7	MDA31	
				SA_DS[31]			
(7,8) -DDR3_RST	-DDR3_RST	AV8	SM_DRAMRST#				
TP1	AK22	SA_CS#4	SA_DS[4]	AR28	DQSA4		
TP1	AL23	SA_CS#5	SA_DS[4]	AT29	-DQSA4		
TP1	AK23	SA_CS#6	SA_DM[4]	AN29	DMA4		
		SA_CS#7					
	DQSA8	AL10	SA_DQS[8]	SA_DS[32]	MDA32		
	-DQSA8	AM10	SA_DQS[8]	AT28	MDA33		
			SA_DQS#[8]	SA_DS[33]	MDA34		
				AP28	MDA35		
				AP30	MDA36		
				SA_DS[36]	AN26	MDA37	
				SA_DS[37]	AR27	MDA38	
				SA_DS[38]	AN30	MDA39	
				AR29			
	SACB0	AP10	SA_ECC_CB[0]	SA_DS[5]	AV32	DQSA5	
	SACB1	AN10	SA_ECC_CB[1]	SA_DS[5]	AW32	-DQSA5	
	SACB2	AR11	SA_ECC_CB[2]	SA_DM[5]	AW31	DMA5	
	SACB3	AP11	SA_ECC_CB[3]				
	SACB4	AK9	SA_ECC_CB[4]				
	SACB5	AL9	SA_ECC_CB[5]				
	SACB6	AK11	SA_ECC_CB[6]				
	SACB7	AM11	SA_ECC_CB[7]				
				SA_DS[40]	AL30	MDA40	
				SA_DS[41]	AJ31	MDA41	
				SA_DS[42]	AL32	MDA42	
				SA_DS[43]	AL33	MDA43	
				SA_DS[44]	AL34	MDA44	
				SA_DS[45]	AW30	MDA45	
				SA_DS[46]	AJ33	MDA46	
				SA_DS[47]	AW33	MDA47	
				SA_DS[56]	AW36	DQSA6	
				SA_DS[57]	AW35	-DQSA6	
				SA_DS[58]	AW35	DMA6	
				SA_DS[48]	AW35	MDA48	
				SA_DS[49]	AJ35	MDA49	
				SA_DS[50]	AW37	MDA50	
				SA_DS[51]	AJ37	MDA51	
				SA_DS[52]	AY34	MDA52	
				SA_DS[53]	AW34	MDA53	
				SA_DS[54]	AW36	MDA54	
				SA_DS[55]	AW37	MDA55	
				AR38	DQSA7		
				AR38	-DQSA7		
				AT38	DMA7		
				AT39	MDA56		
				AT40	MDA57		
				AN38	MDA58		
				AN39	MDA59		
				AL38	MDA60		
				AP39	MDA61		
				AP40	MDA62		
				AP40	MDA63		

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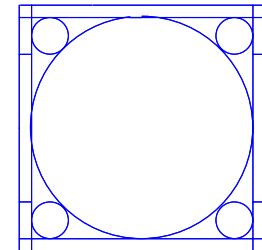
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MAAB0	AU20	SB_MA[0]	SB_DS[0]	AF4	DQSB0
MAAB1	AU18	SB_MA[1]	SB_DS[1]	AE5	-DQSB0
MAAB2	AV18	SB_MA[2]	SB_DS[2]	AE4	DMB0
MAAB3	AU17	SB_MA[3]	SB_DM[0]		
MAAB4	AY18	SB_MA[4]		AD7	MDB0
MAAB5	AV17	SB_MA[5]	SB_DS[0]	AD6	MDB1
MAAB6	AW17	SB_MA[6]	SB_DS[1]	AH8	MDB2
MAAB7	AU16	SB_MA[7]	SB_DS[2]	AJ8	MDB3
MAAB8	AY16	SB_MA[8]	SB_DS[3]	AC7	MDB4
MAAB9	AT17	SB_MA[9]	SB_DS[4]	AC6	MDB5
MAAB10	AY25	SB_MA[10]	SB_DS[5]	AF5	MDB6
MAAB11	AW16	SB_MA[11]	SB_DS[6]	AE6	MDB7
MAAB12	AW15	SB_MA[12]			
MAAB13	AW28	SB_MA[13]	SB_DS[11]	AH6	DQSB1
MAAB14	AY12	SB_MA[14]	SB_DS[11]	AJ5	-DQSB1
MAAB15	AV11	SB_MA[15]	SB_DS[11]	AH4	DMB1
			SB_DM[1]		
(8) -SWEB	-SWEB	AU26	SB_WE#	AG5	MDB8
(8) -SCASB	-SCASB	AW22	SB_DS[8]	AH7	MDB9
(8) -SRASB	-SRASB	AW26	SB_DS[9]	AK9	MDB10
			SB_DS[10]	AL4	MDB11
(8) SBAB0	SBAB0	AU25	SB_DS[11]	AL4	MDB11
(8) SBAB1	SBAB1	AW25	SB_DS[12]	AL6	MDB13
(8) SBAB2	SBAB2	AV12	SB_DS[13]	AL7	MDB14
			SB_DS[14]	AK7	MDB15
			SB_DS[15]		
(8) -CSB0	-CSB0	AY27	SB_CS#0	AN6	DQSB2
(8) -CSB1	-CSB1	AW26	SB_CS#1	AM6	-DQSB2
(8) -CSB2	-CSB2	AV26	SB_CS#2	AM7	DMB2
(8) -CSB3	-CSB3	AV29	SB_CS#3		
(8) CKEB0	CKEB0	AW8	SB_CKE[0]	AL6	MDB16
(8) CKEB1	CKEB1	AY9	SB_CKE[1]	AN6	MDB17
(8) CKEB2	CKEB2	AU9	SB_CKE[2]	AP6	MDB18
(8) CKEB3	CKEB3	AV9	SB_CKE[3]	AR5	MDB19
				AL5	MDB20
MODT_B0	AU27	SB_ODT[0]	SB_DS[20]	AN4	MDB21
MODT_B1	AU29	SB_ODT[1]	SB_DS[21]	ANZ	MDB22
MODT_B2	AV27	SB_ODT[2]	SB_DS[22]	AP5	MDB23
MODT_B3	AU28	SB_ODT[3]	SB_DS[23]		
			SB_DS[3]	AR8	DQSB3
			SB_DS[3]	AT7	DMB3
			SB_DM[3]		
(8) DCLKB0	DCLKB0	AR17	SB_CK[0]	AT6	MDB24
(8) DCLKB0	DCLKB0	AR16	SB_CK[0]	AR7	MDB25
(8) DCLKB1	DCLKB1	AT15	SB_CK[1]	AP9	MDB26
(8) DCLKB1	DCLKB1	AR15	SB_CK[1]	AM8	MDB27
(8) DCLKB2	DCLKB2	AN17	SB_CK[2]	AN8	MDB28
(8) DCLKB2	DCLKB2	AN16	SB_CK[2]	AR6	MDB29
(8) DCLKB3	DCLKB3	AR18	SB_CK[3]	AL8	MDB30
(8) DCLKB3	DCLKB3	AR18	SB_CK[3]	AT9	MDB31
			SB_CK[3]		
TP12	AM23	SB_CS#4	SB_DS[4]	AT26	DQSB4
TP13	AM24	SB_CS#5	SB_DS[4]	AN24	-DQSB4
TP15	AL24	SB_CS#6	SB_DS[4]	AN24	DMB4
TP17	AK24	SB_CS#7	SB_DS[4]		
			SB_DS[32]	AN23	MDB32
			SB_DS[33]	AP23	MDB33
			SB_DS[34]	AR25	MDB34
			SB_DS[35]	AR26	MDB35
			SB_DS[36]	AT23	MDB36
			SB_DS[37]	AP25	MDB37
			SB_DS[38]	AT26	MDB38
			SB_DS[39]		
			SB_DS[5]	AP32	DQSB5
			SB_DS[5]	AR32	-DQSB5
			SB_DS[5]	AN32	DMB5
			SB_DS[40]	AT32	MDB40
			SB_DS[41]	AP31	MDB41
			SB_DS[42]	AR33	MDB42
			SB_DS[43]	AM32	MDB43
			SB_DS[44]	AT31	MDB44
			SB_DS[45]	AR31	MDB45
			SB_DS[46]	AR34	MDB46
			SB_DS[47]	AT33	MDB47
			SB_DS[56]	AR36	DQSB6
			SB_DS[57]	AR37	-DQSB6
			SB_DS[58]	AM33	DMB6
			SB_DS[48]	AR35	MDB48
			SB_DS[49]	AT36	MDB49
			SB_DS[50]	AP36	MDB50
			SB_DS[51]	AP37	MDB51
			SB_DS[52]	AP34	MDB52
			SB_DS[53]	AT35	MDB53
			SB_DS[54]	AN34	MDB54
			SB_DS[55]	AP37	MDB55
			AL37	DQSB7	
			AM36	-DQSB7	
			AK35	DMB7	
			AL35	MDB56	
			AM35	MDB57	
			AJ36	MDB58	
			AJ37	MDB59	
			AN35	MDB60	
			AM34	MDB61	
			AL35	MDB62	
			AL36	MDB63	

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OR
CPU RETENTIONX

Need check the new CPU ME

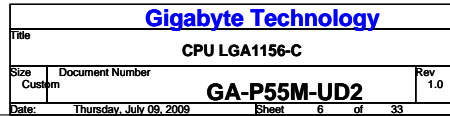
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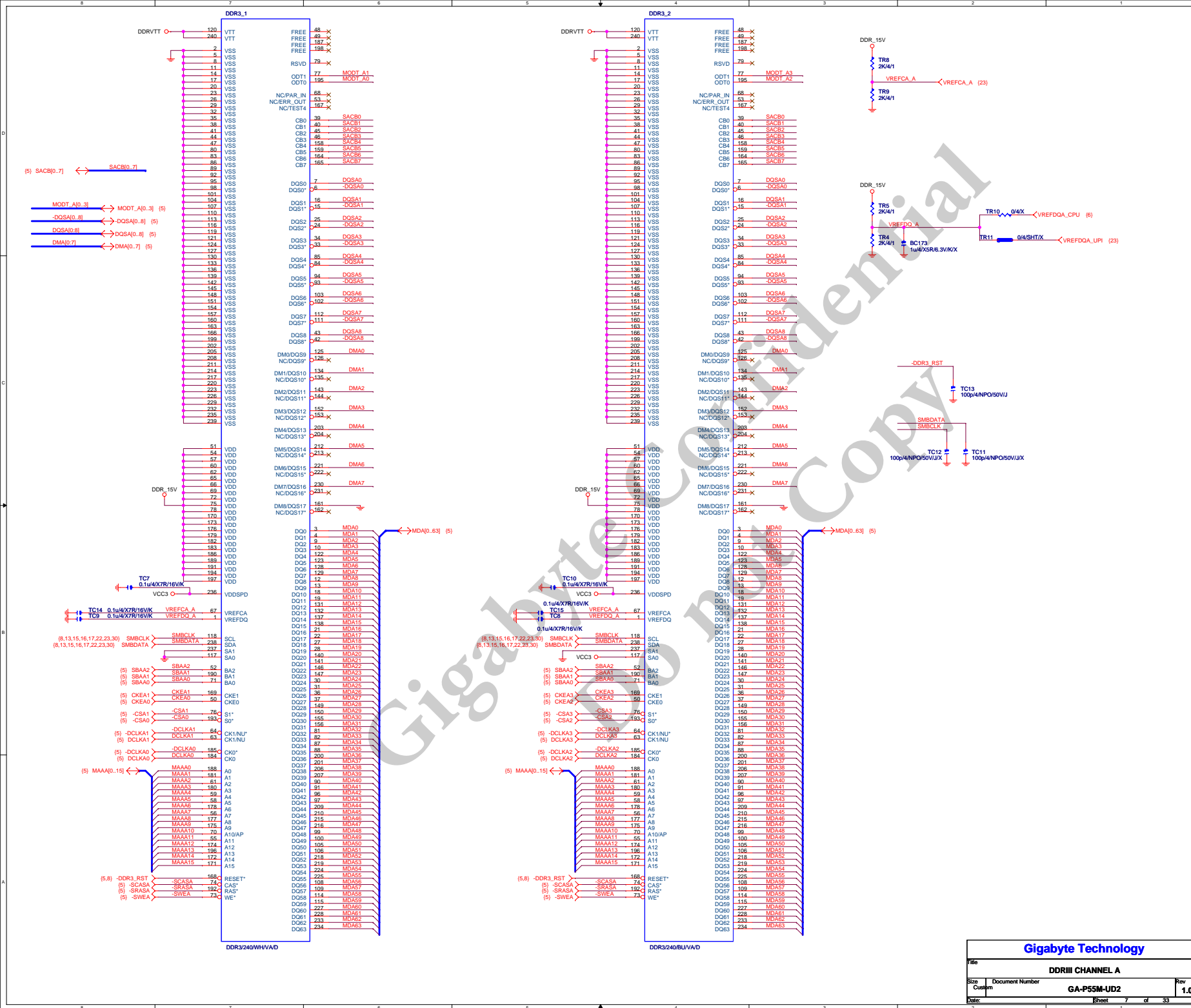


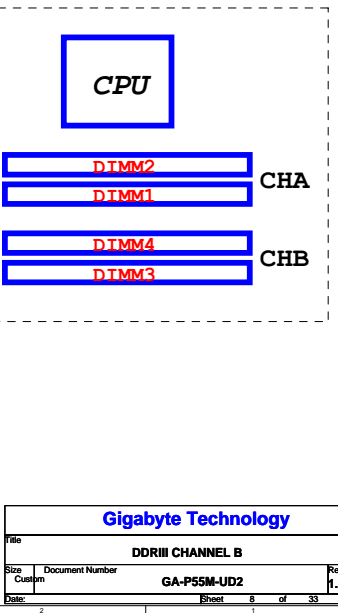
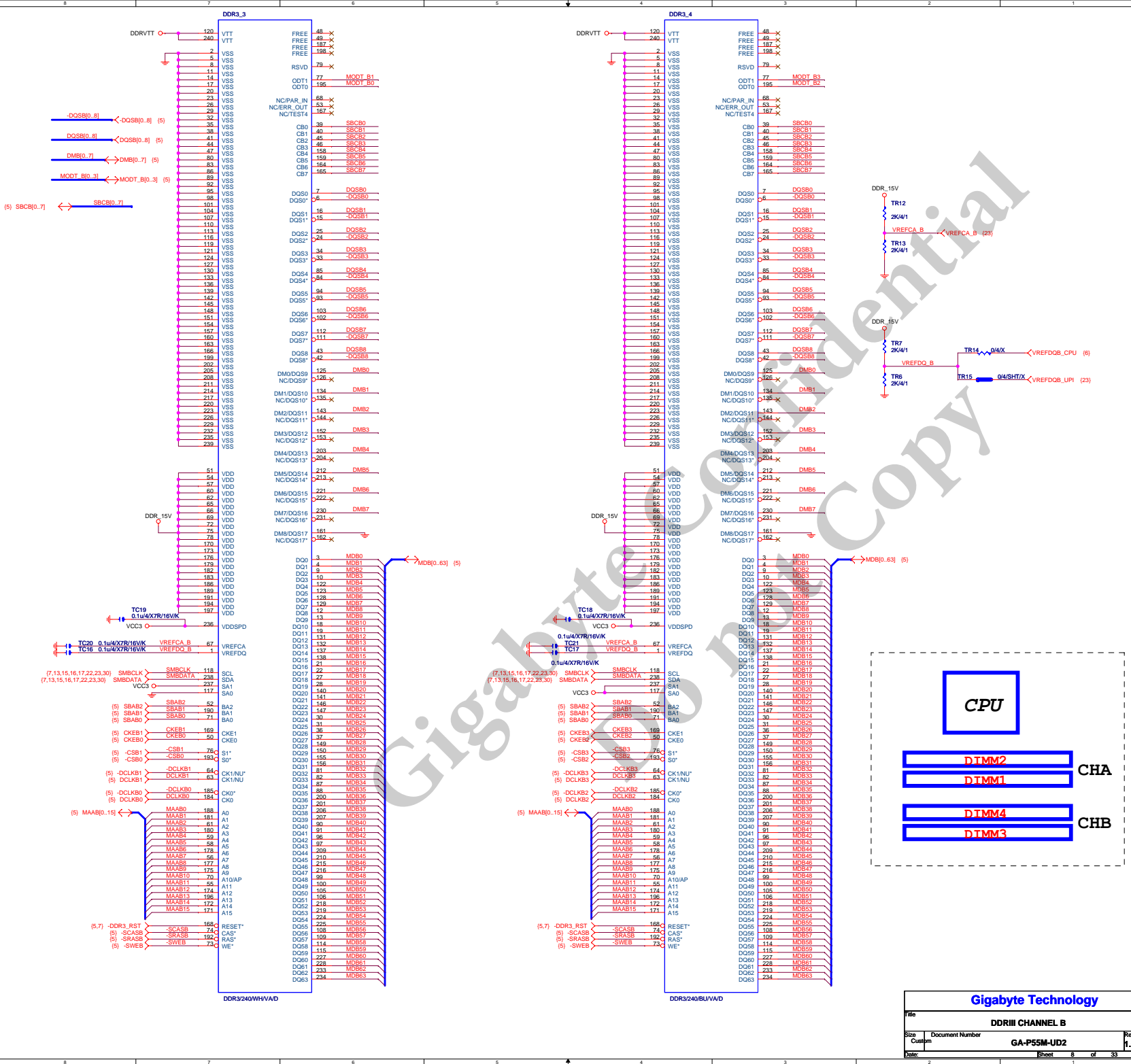
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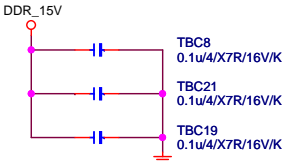




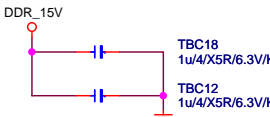
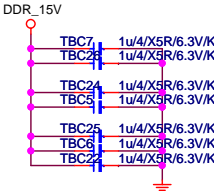
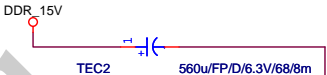
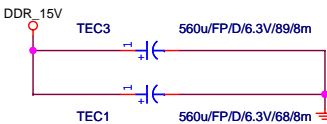
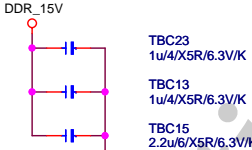
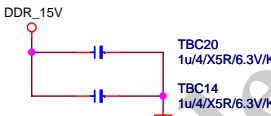
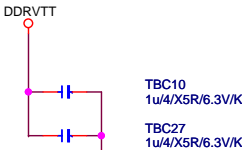
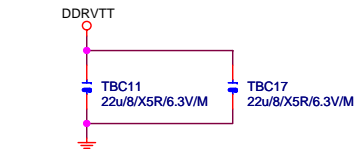
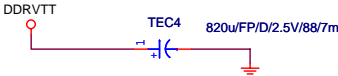
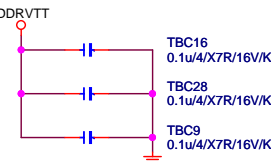


DDR TERMINATION
CHANNEL A/B

DDR15V Decouple

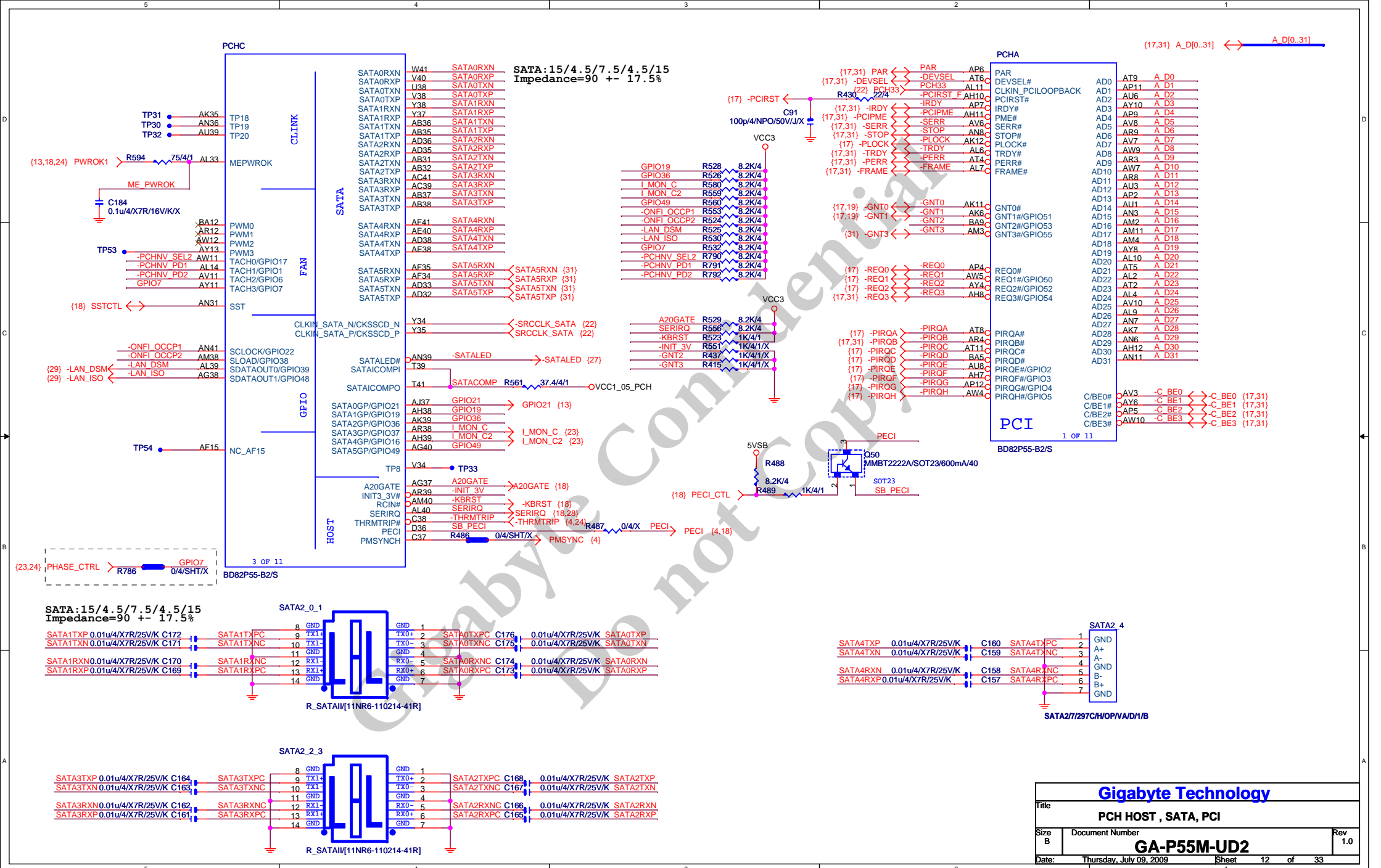


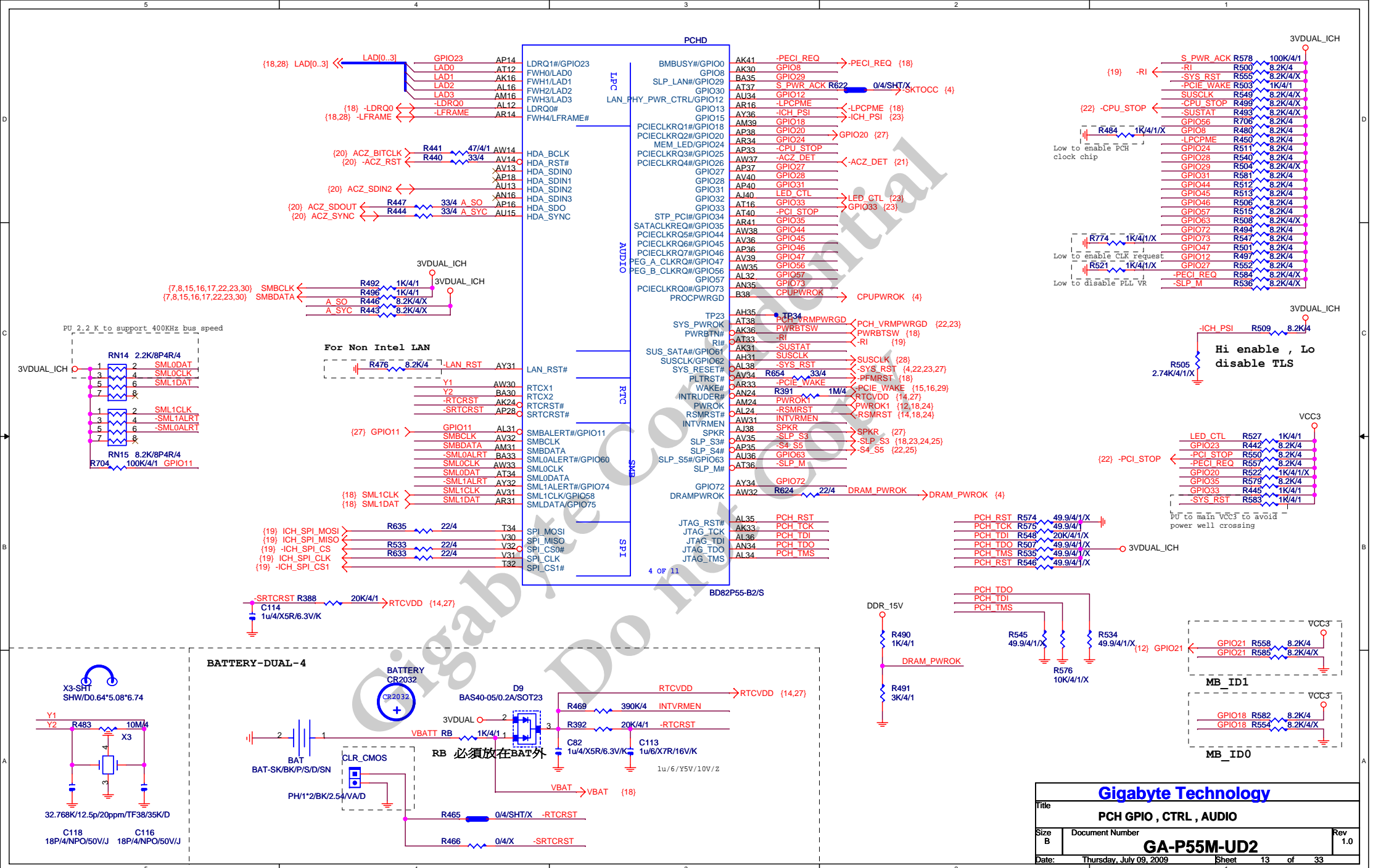
DDRVTT Decouple

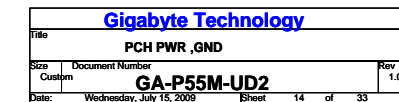


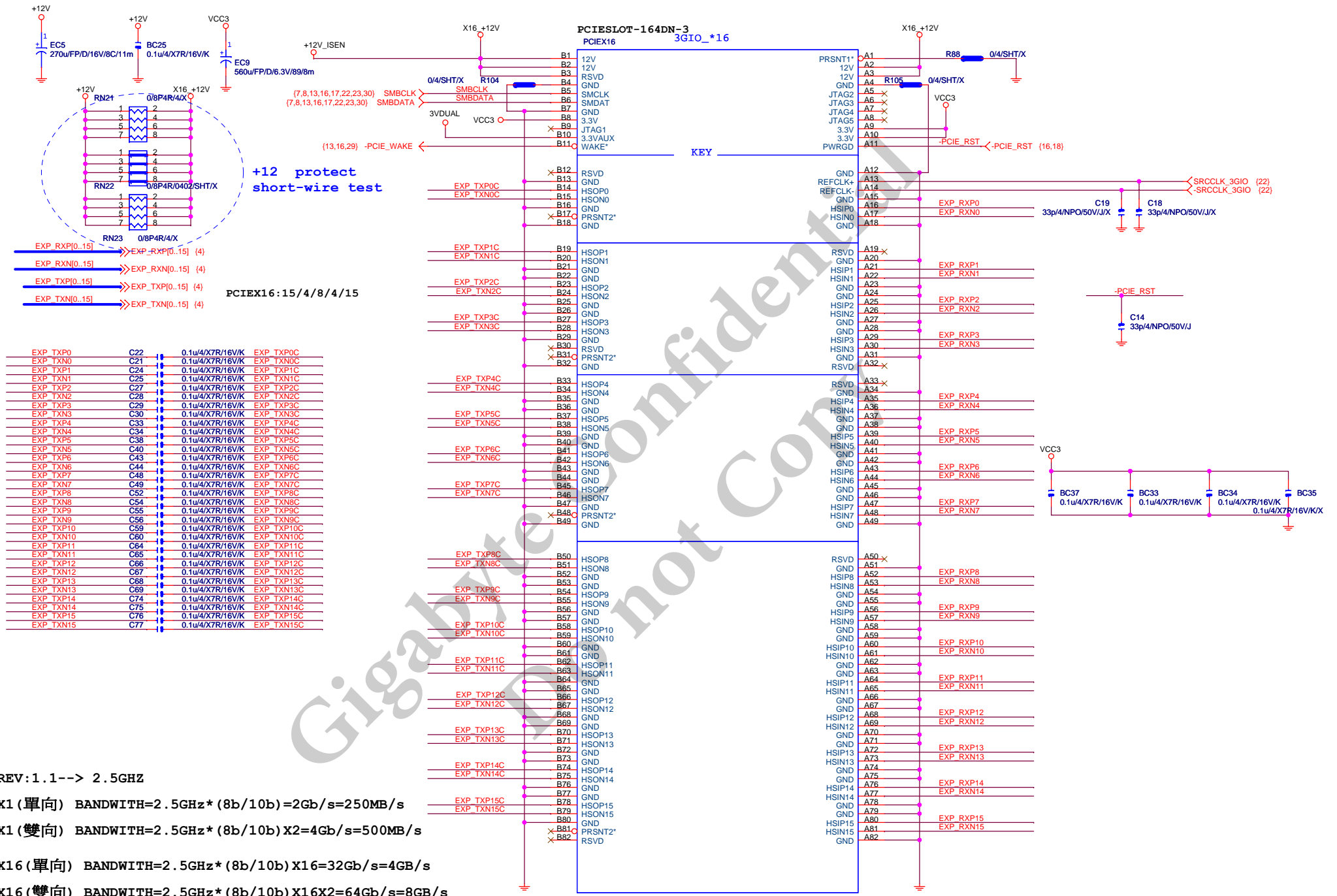
Gigabyte Technology			
Title			
DDRIII POWER CAP			
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PCI-E REV:1.1--> 2.5GHZ

PCE-E X1(單向) BANDWITH=2.5GHz*(8b/10b)=2Gb/s=250MB/s

PCE-E X1(雙向) BANDWITH=2.5GHz*(8b/10b)X2=4Gb/s=500MB/s

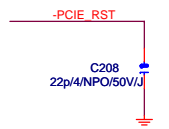
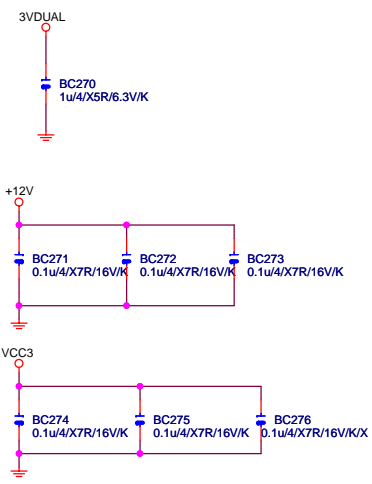
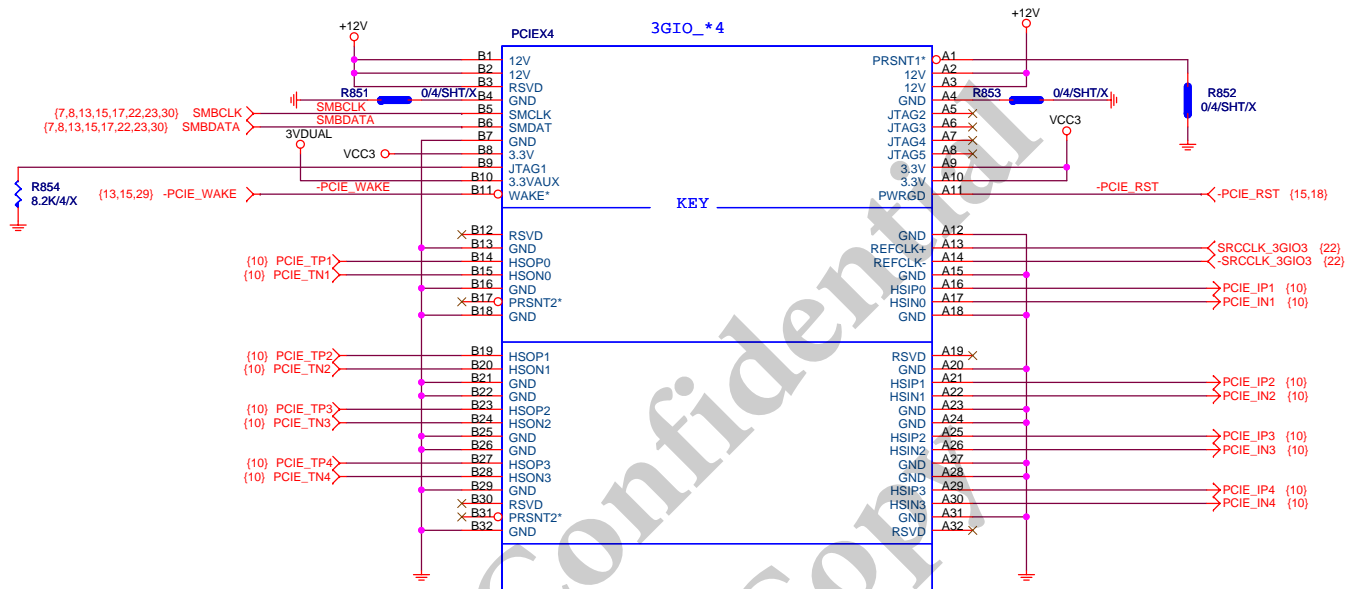
PCE-E X16(單向) BANDWITH=2.5GHz*(8b/10b)X16=32Gb/s=4GB/s

PCE-E X16(雙向) BANDWITH=2.5GHz*(8b/10b)X16X2=64Gb/s=8GB/s

PCI-E REV:2.0--> 5GHZ

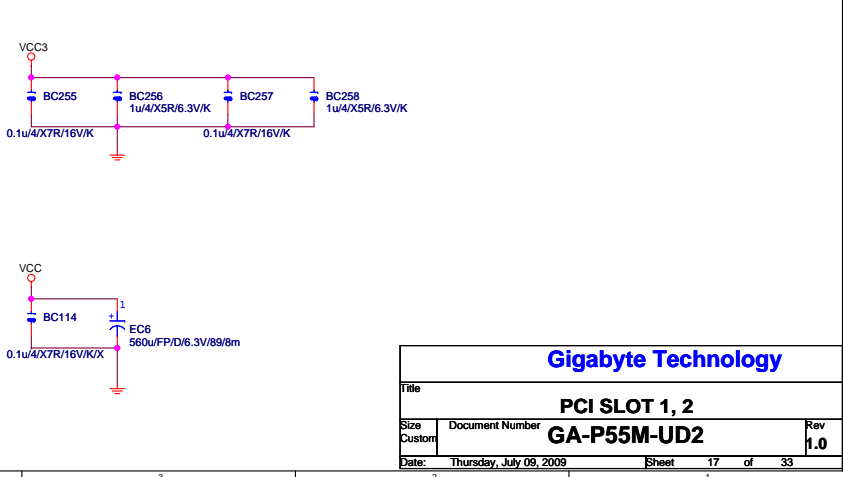
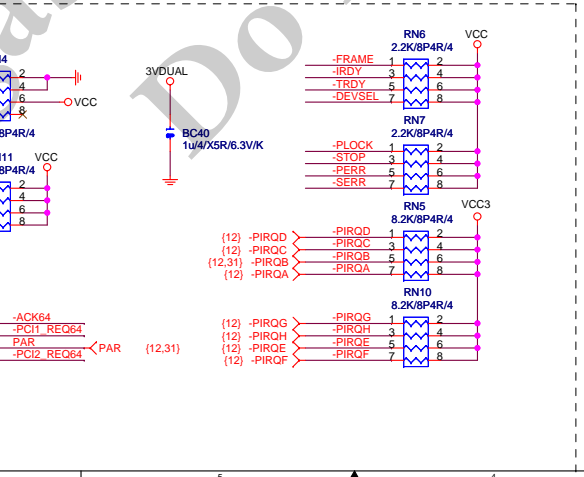
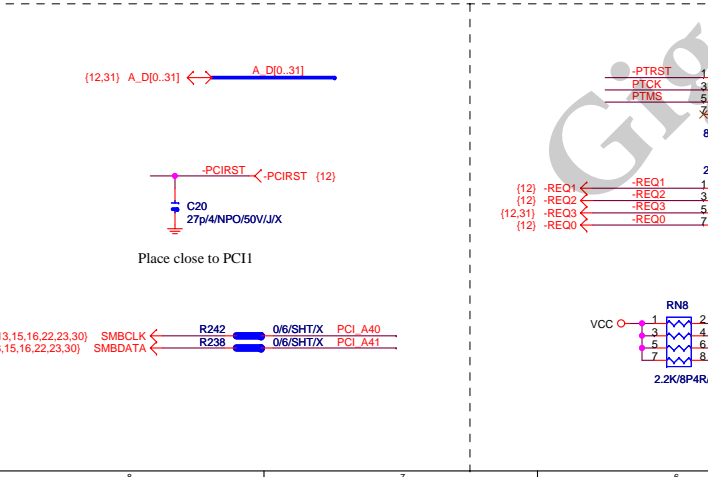
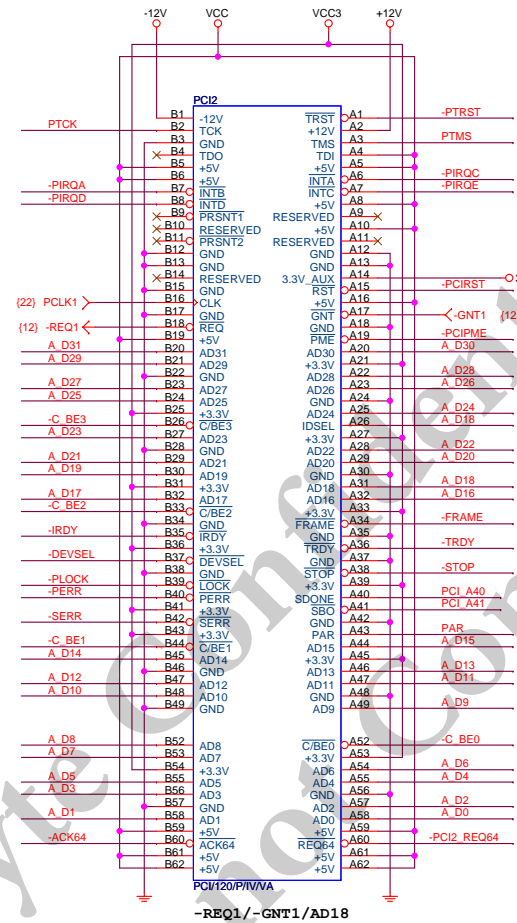
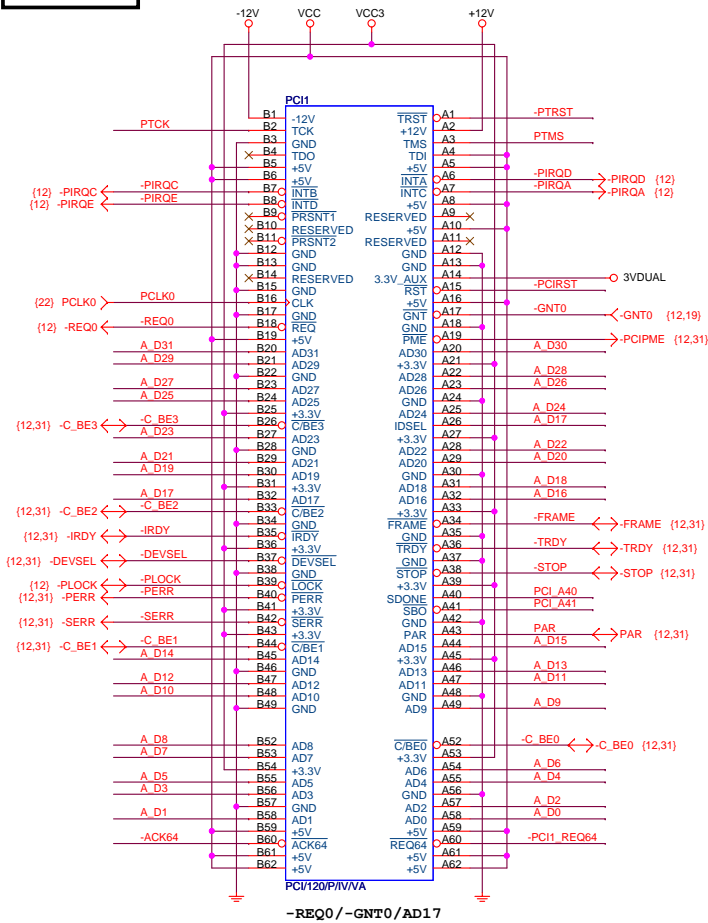
Gigabyte Technology

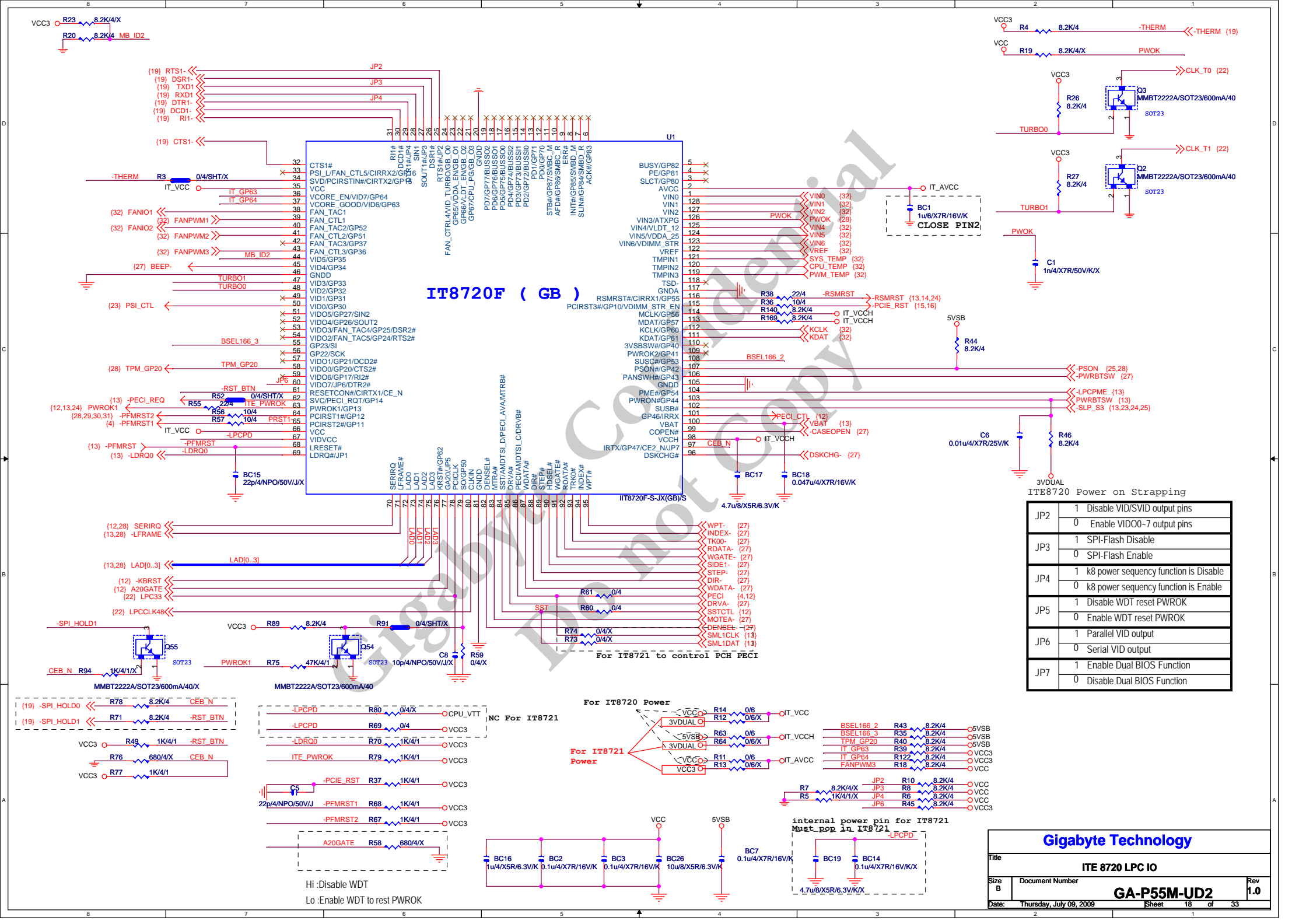
Title			PCI EXPRESS * 16
Size	Document Number	GA-P55M-UD2	
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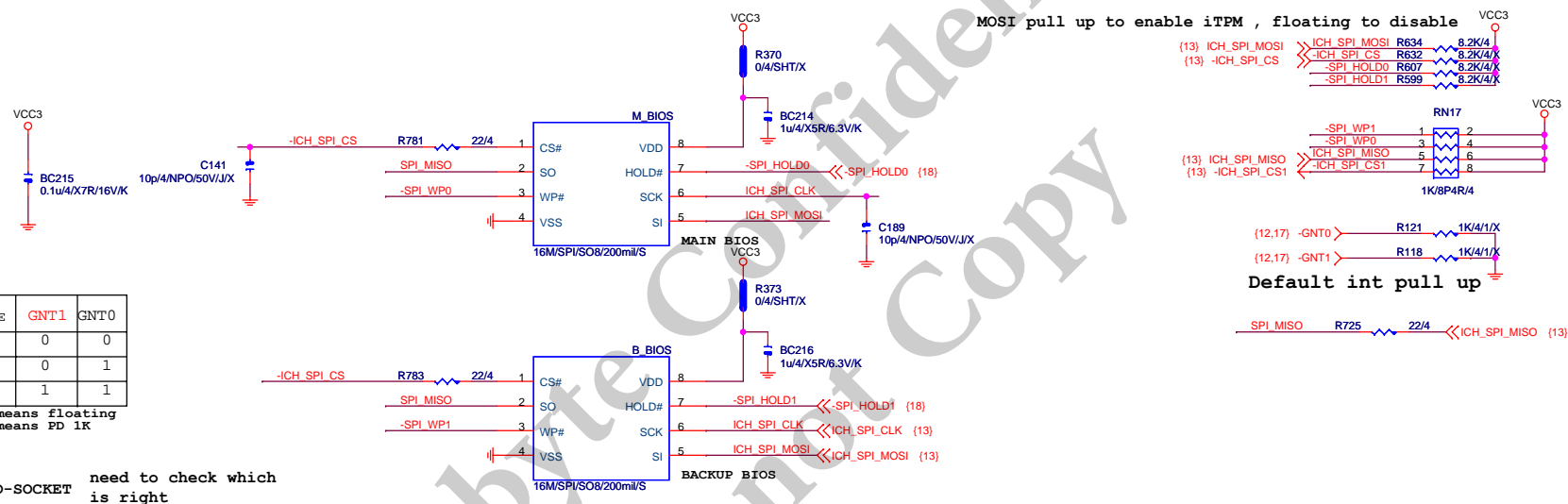
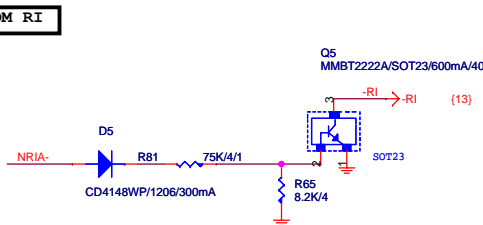


PCI-E/16X-65P/BU/RIGHT PUSH

PCI1, 2 SLOT







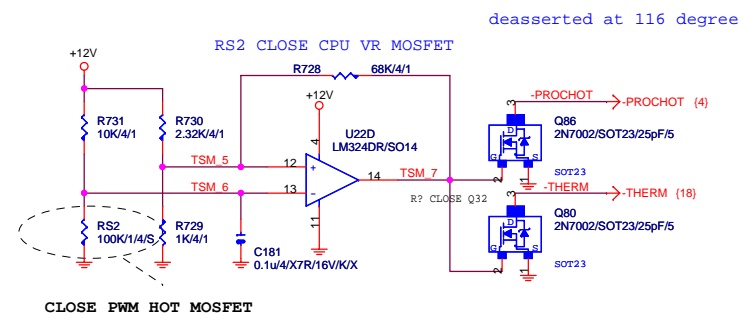
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

```

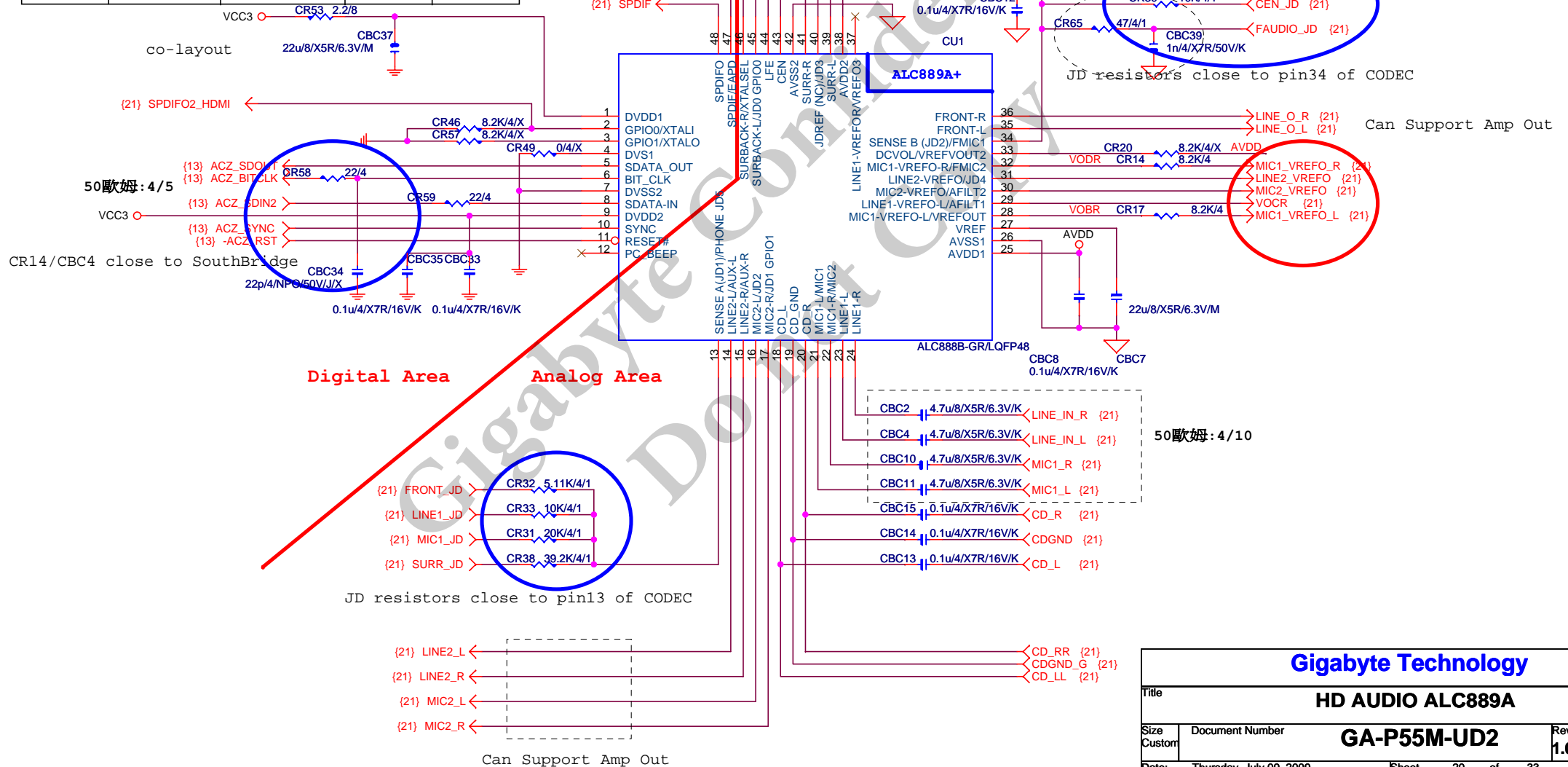
1 means floating
0 means PD 1K

```

IC8SO-SOCKET need to check which
 is right



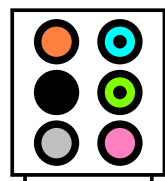
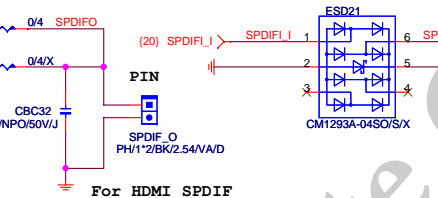
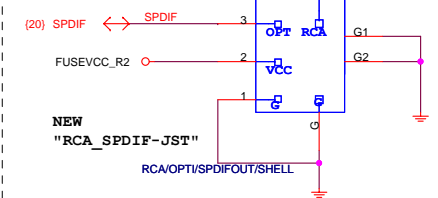
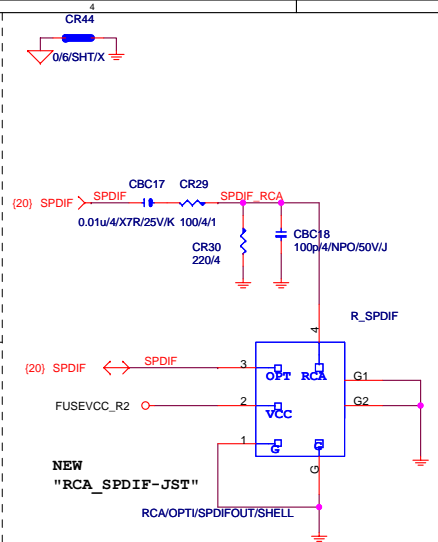
	ALC888-VA ALC888-VC2	ALC888B	ALC889A	ALC889A+
CR49	O	X	O	O
CR46	X	X	O	X
CR57	X	X	O	X
CR47	X	X	X	O
CR48	O	O	O	X
CR26	20K/1%	20K/0.1%	20K/1%	20K/1%



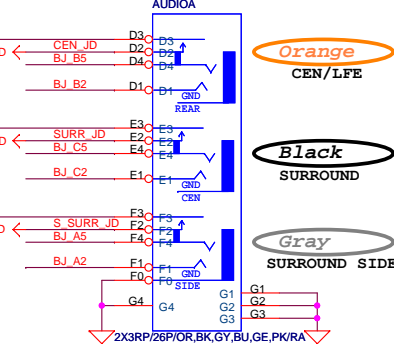
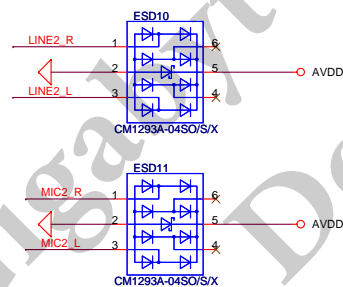
Gigabyte Technology

HD AUDIO ALC889A

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Custom			
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The schematic diagram illustrates the internal circuitry of the 2X3RP26B audio interface. It features three input channels (LINE1_JD, FRONT_JD, MIC1_JD) and three output channels (AUDIOB, LINE-OUT, MIC-OUT). The inputs are connected to the 2X3RP26B IC via 20k pull-up resistors. The outputs are connected to the 2X3RP26B IC via 10k pull-down resistors. The 2X3RP26B IC is a 6-pin device with pins 1, 2, and 3 connected to the inputs, and pins 4, 5, and 6 connected to the outputs. The 2N3904 transistor is used for signal amplification, with its base connected to the output of the 2X3RP26B IC and its emitter connected to ground. The collector is connected to the output of the 2X3RP26B IC. The circuit is powered by a 5V supply and ground.



Only reserved for ALC898

(20) LINE_IN_R ← CR10 75Ω/4

(20) LINE_IN_L ← CR12 75Ω/4

(20) VCCR ← C91, CR11 8.2K/4, CR13 8.2K/4, C8C20 180pF/4/NPO/50V/J, C8C03 180pF/4/NPO/50V/J

For 889A/888 BAT54A/SOT23/200mA

(20) MIC1_R < CR15 75/4/1

(20) MIC1_L < CR19 75/4/1

(20) MIC1_VREF0_L

(20) MIC1_VREF0_R

CBC3 180pF/4NPO/50V/J

CBC01 180pF/4NPO/50V/J

AJ_C5

AJ_C2

Figure 10 is a schematic diagram of an EMI filter circuit. It shows a common-mode choke (CR36) and two differential-mode capacitors (CR42, CR37) connected to the power and ground lines. The input lines are labeled CEC8 and CEC9, and the output lines are labeled LFE and CEN. The circuit is designed to filter out common-mode and differential-mode noise. Component values include 100uF/OS/D/16V/66/30m for the capacitors, 75/4/1 for the inductors, and 22K/4 for the resistors. The circuit is also connected to a common-mode capacitor (CR30) and a common-mode inductor (CR35).

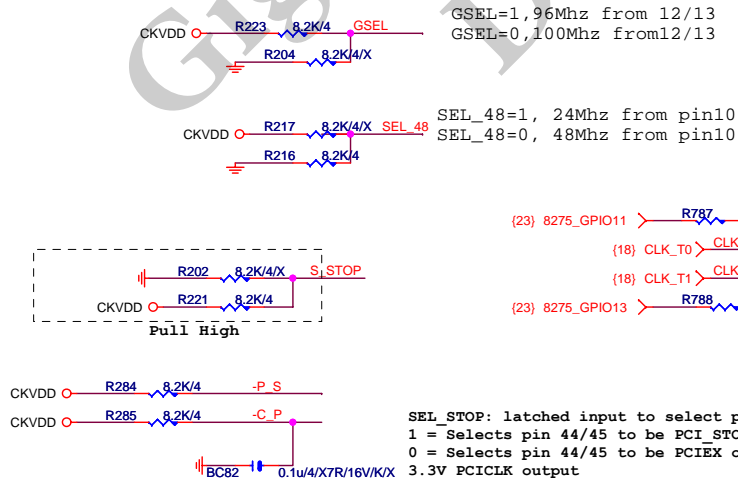
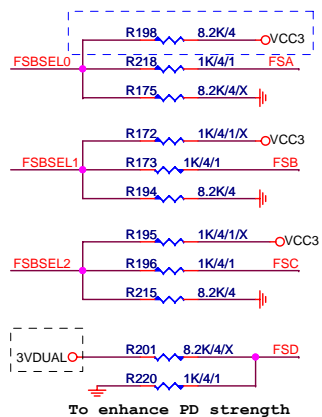
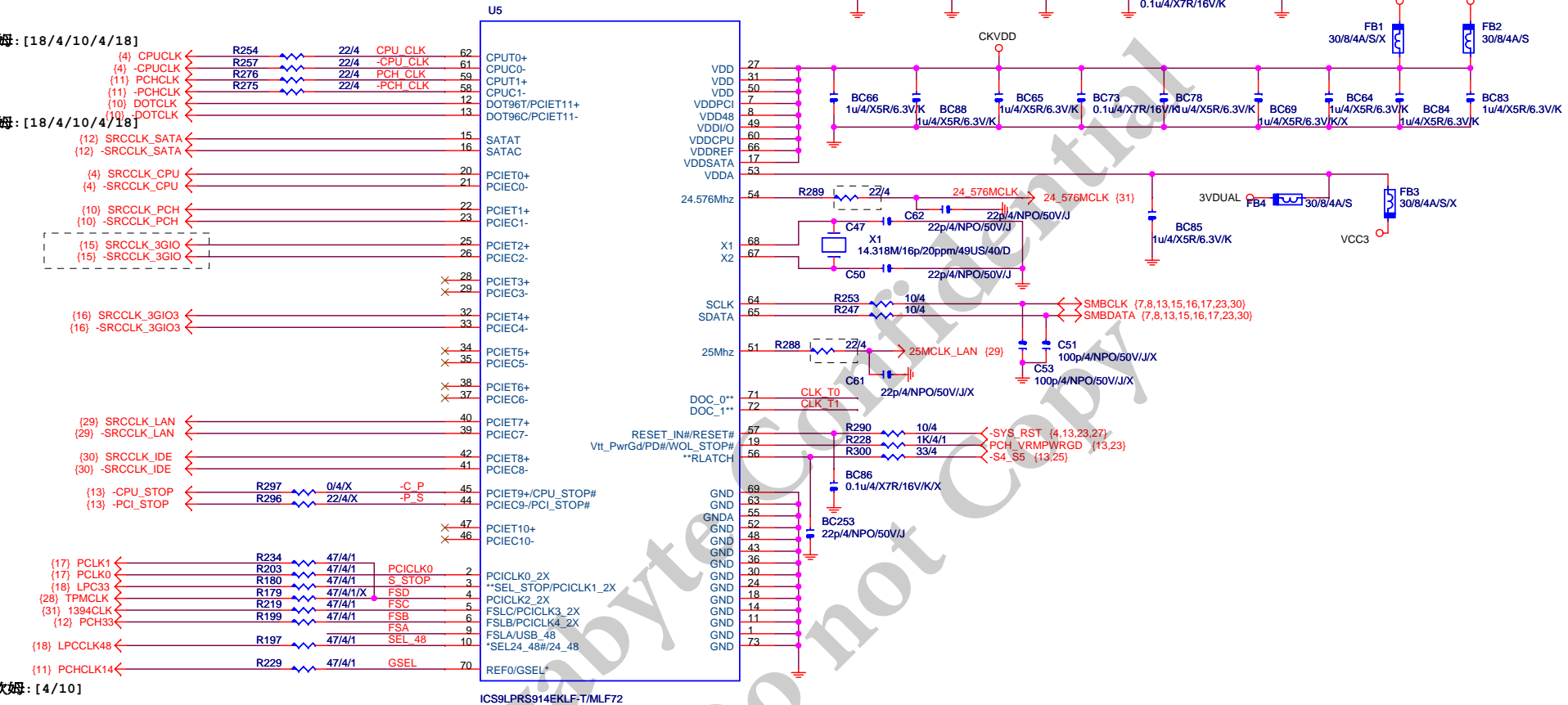
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Gigabyte Technology			
Title			
AUDIO JACK			
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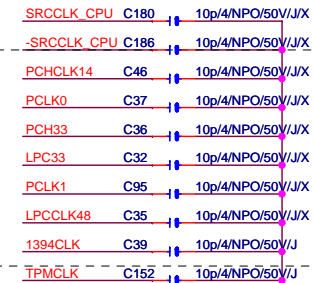
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50歐姆:[18/4/10/4/18]

50歐姆:[4/10]

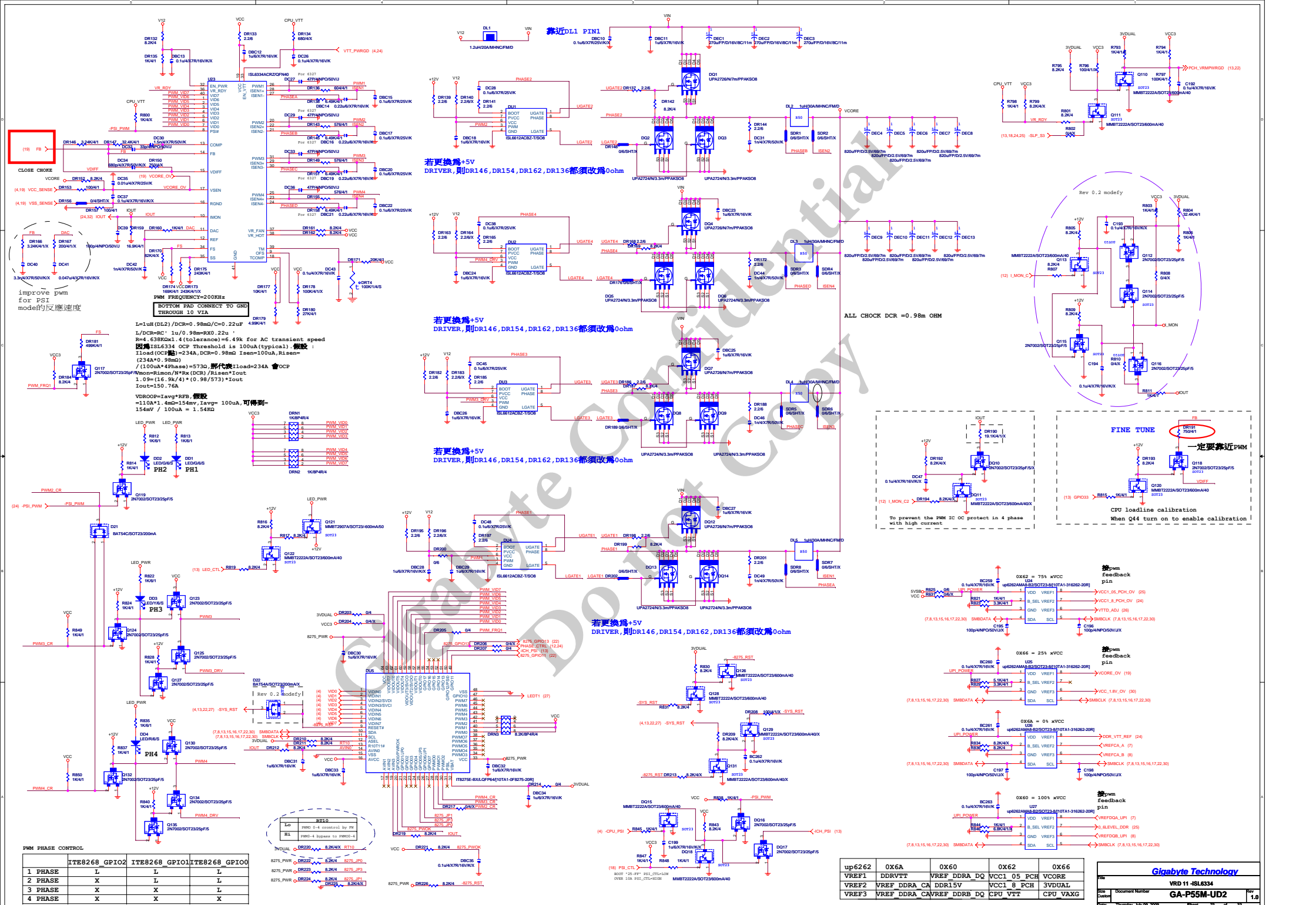


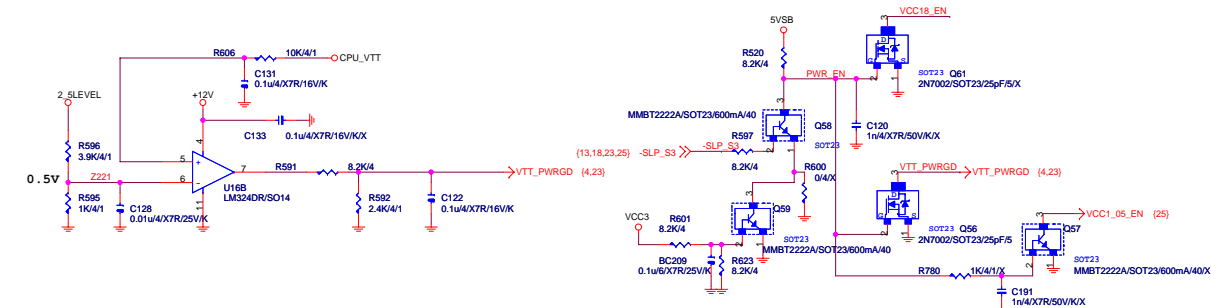
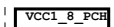
Rev 0.2 modify



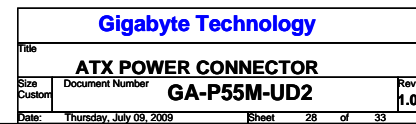
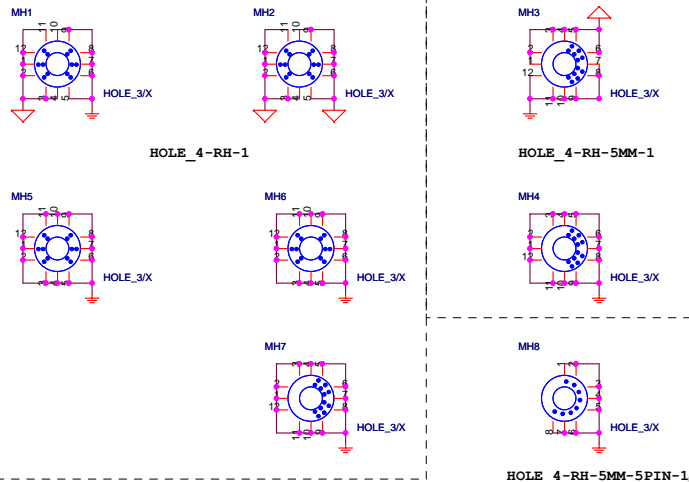
Rev 0.2 modify

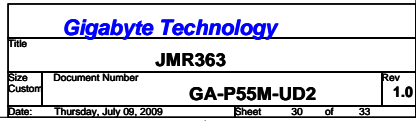
Gigabyte Technology

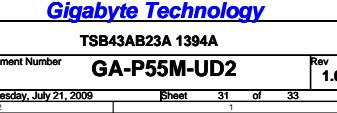
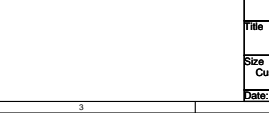
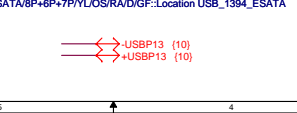
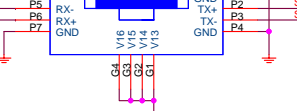
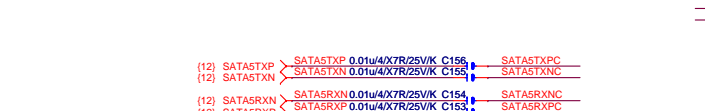
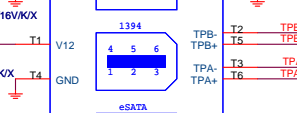
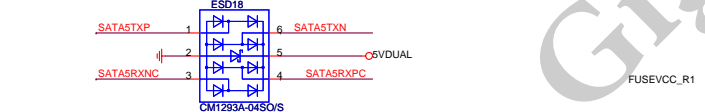
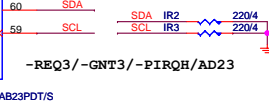
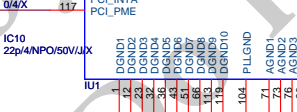
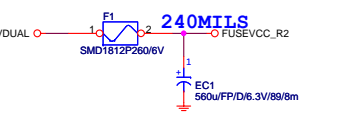
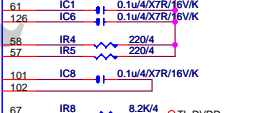
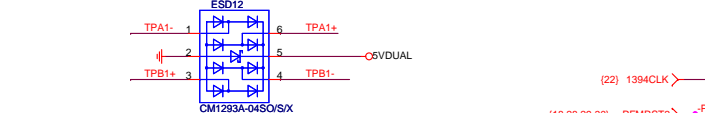
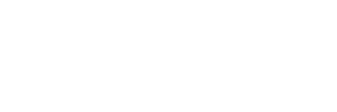
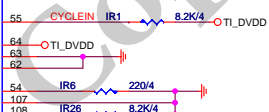
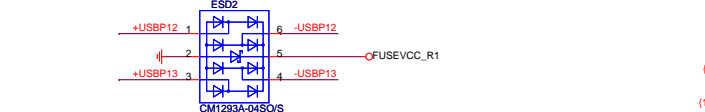
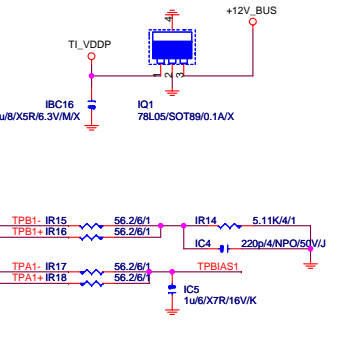
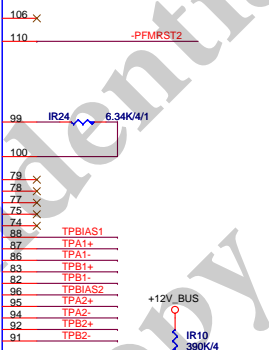
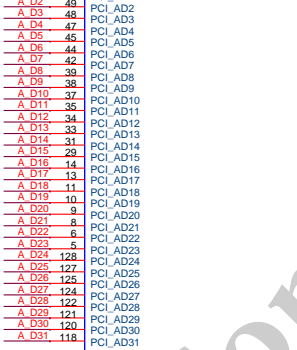
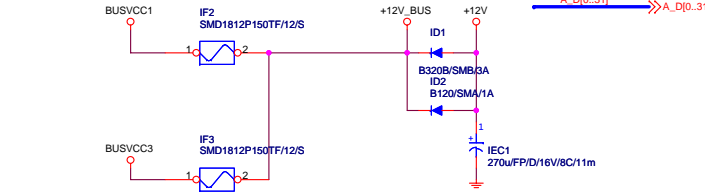
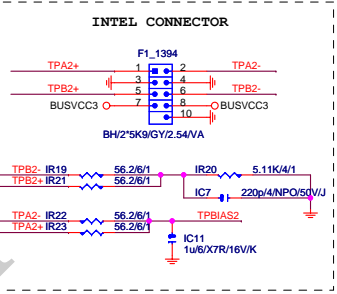
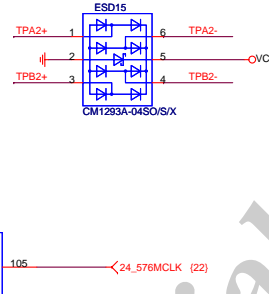
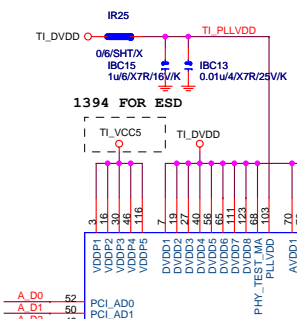
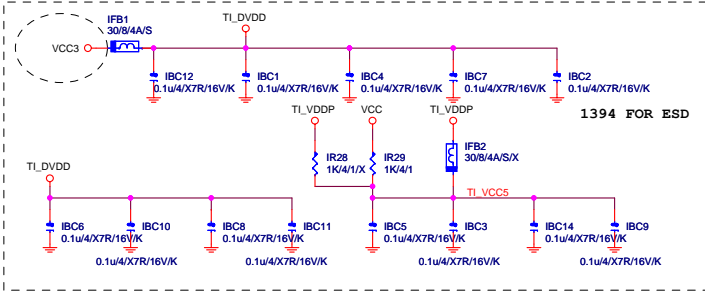




APW/2*12/IV/VA/SN/2SHK/PA66

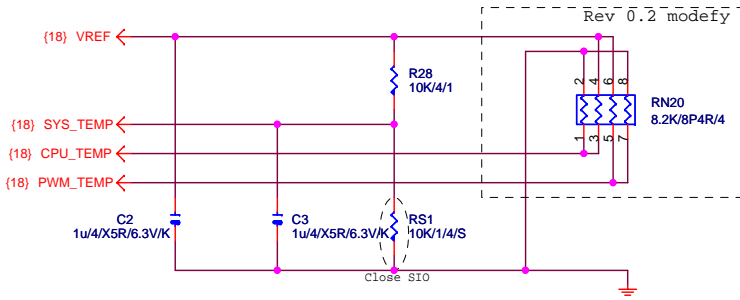




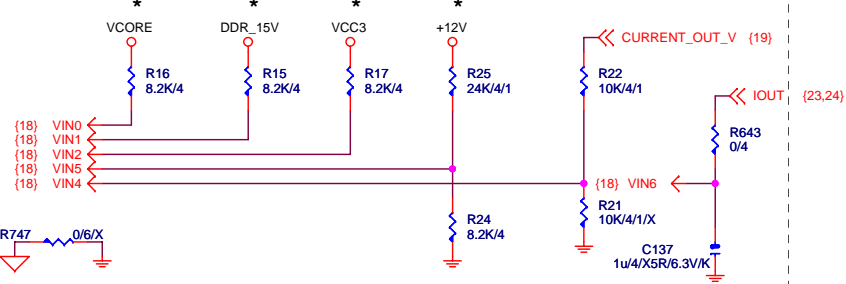


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(10) +USBP12 (10)

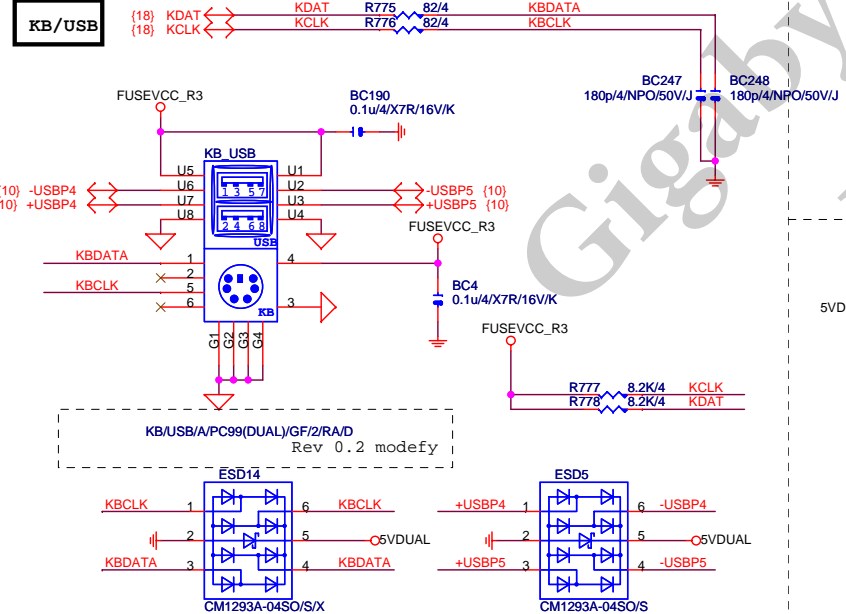
TEMP H/W MONITOR



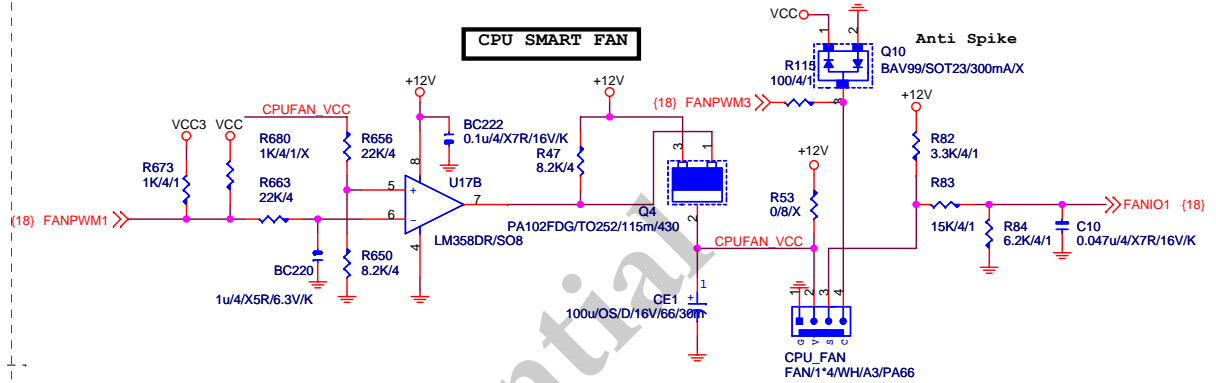
VOLTAGE-- H/W MONITOR



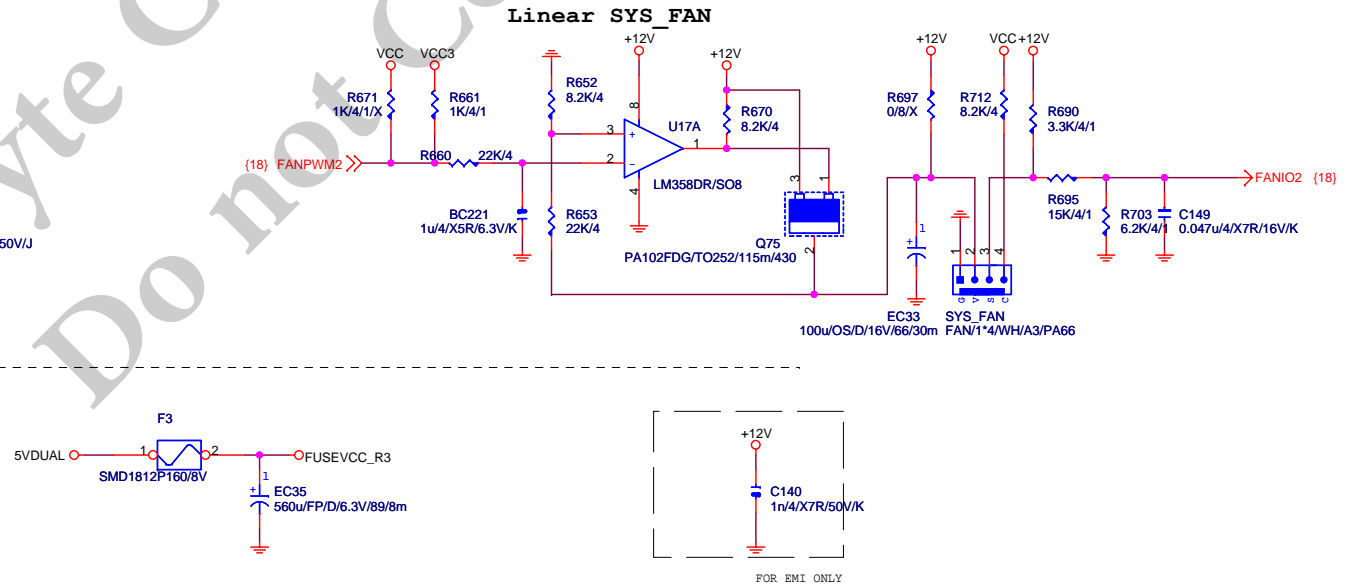
KB/USB



CPU SMART FAN



SYS FAN



Gigabyte Technology

Title			
HWM,KB/MS, FAN CTRL			
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