

Model Name: GA-H61M-S2P-B3

Revision 1.1

SHEET

TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1155-A
05	CPU_LGA1155-B
06	CPU_LGA1155-C
07	DDR III CHANNEL A
08	DDR III CHANNEL B
09	PCH_FDI,DMI,USB,PCIE,NVRAM
10	PCH_DP,CLK BUFFER
11	PCH_HOST,SATA,PCI
12	PCH_GPIO,CTRL,AUDIO
13	
14	PCI EXPRESS*16 SLOT
15	
16	PCI EXPRESS*1 SLOT
17	
18	IT8892EPCI SLOT1&2
19	ITE 8728 LPC IO
20	
21	COM,KB_USB,USB_ESATA,-PROCHOT,HWM,FAN CTRL,OV,
22	DUAL BIOS
23	FP,FUSB,SPK,SATALED
24	VIA VT2021
25	REAR AUDIO JACK
25	Atheros AR8151 / AR8161 DISCRETE POWER
26	ATX
27	

SHEET

TITLE

28	ISL95870_CPU_VTT
29	VCORE ISL6364_1
30	VCORE ISL6364_2
31	VCORE ISL6364_3
32	LPT

Gigabyte Technology

Cover Sheet			
Size	Document Number	GA-H61M-S2P-B3	Rev
Custom			1.1
Date:	Monday, August 08, 2011	Sheet	1 of 32



## Revision 1.1

## Circuit or PCB layout change

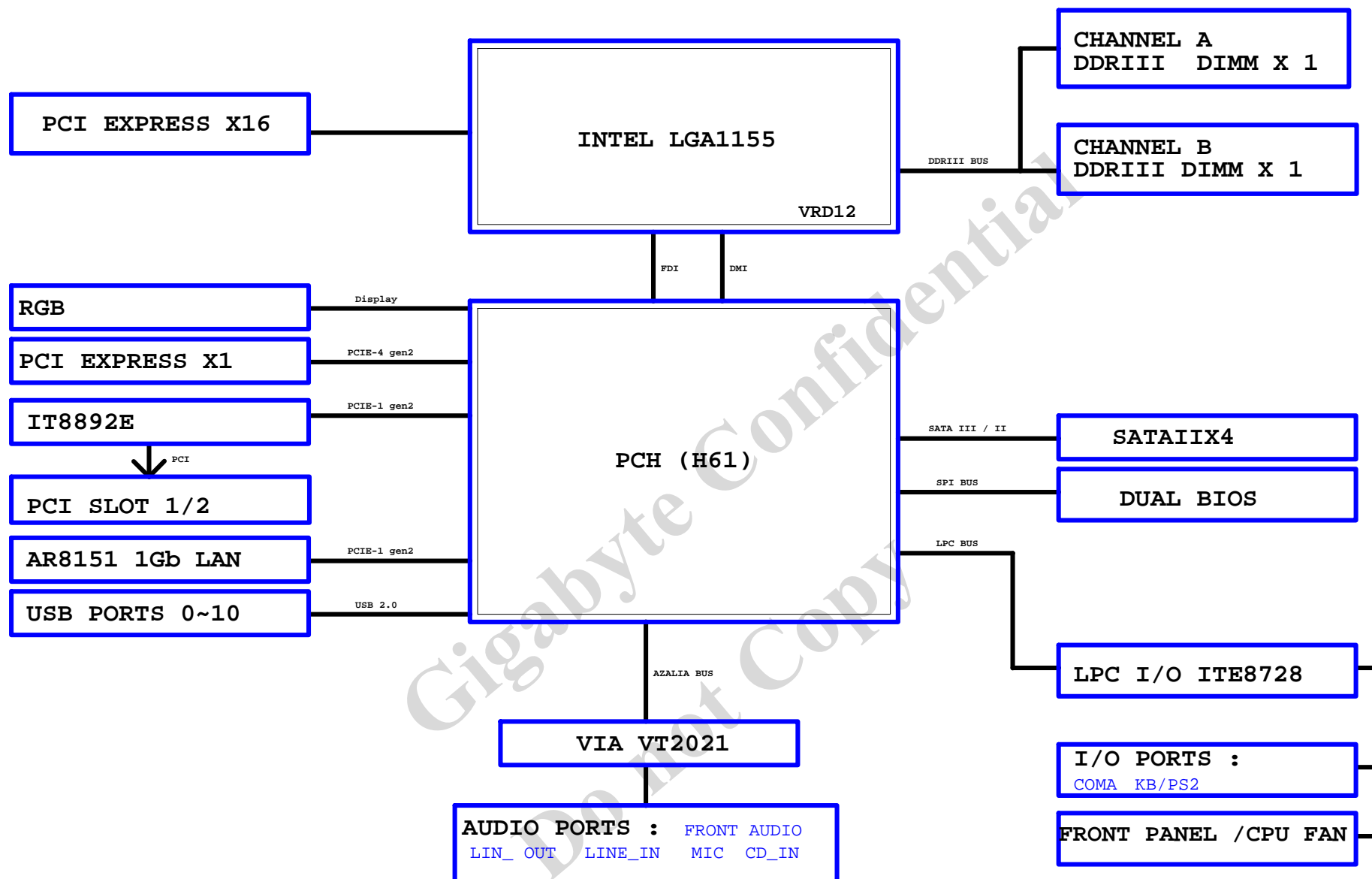
### Component value change history

2011/08/04

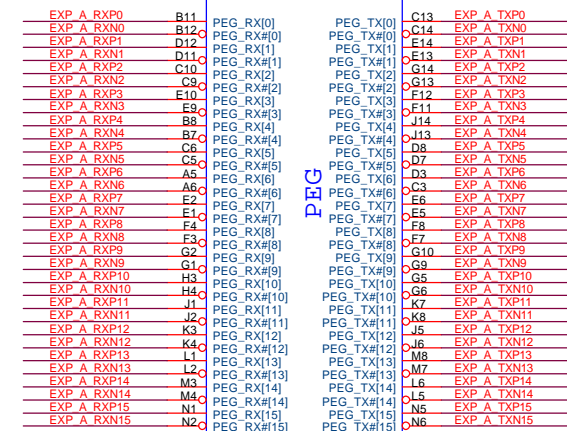
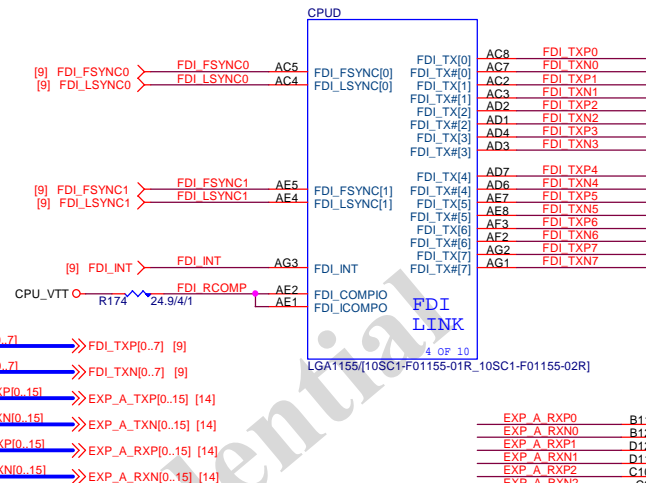
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## BLOCK DIAGRAM

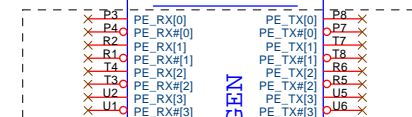
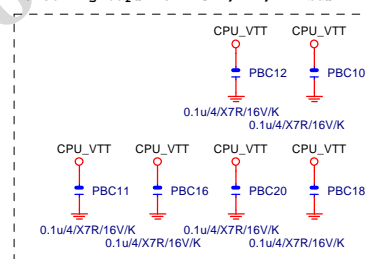






CFG6	CFG5	PCIE CONFIG
1	1	1x16 , Default
1	0	2X8
0	1	RSVD
0	0	X8,X4,X4

CFG 0-17 all internal PULL-UP



LGA1155/I10SC1-F01155-01R\_I10SC1-F01155-02R

## Gigabyte Technology

Title	CPU LGA1155-A
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Size Custom	Document Number <b>GA-H61M-S2P-B3</b>	Rev <b>1.1</b>
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CPUA			
MAAA0	AV27	SA_MA[0]	SA_DQS[0]
MAAA1	AY24	SA_MA[1]	SA_DQS[0]
MAAA2	AW24	SA_MA[2]	
MAAA3	AW23	SA_MA[3]	
MAAA4	AV23	SA_MA[4]	
MAAA5	AT24	SA_MA[5]	
MAAA6	AT23	SA_MA[6]	
MAAA7	AU22	SA_MA[7]	
MAAA8	AV22	SA_MA[8]	
MAAA9	AT22	SA_MA[9]	
MAAA10	AV28	SA_MA[10]	
MAAA11	AU21	SA_MA[11]	
MAAA12	AT21	SA_MA[12]	
MAAA13	AW32	SA_MA[13]	
MAAA14	AU20	SA_MA[14]	
MAAA15	AT20	SA_MA[15]	
[7] -SWEA	AW29	SA_WE#	
[7] -SCASA	AV30	SA_CAS#	
[7] -SRASA	AU28	SA_RAS#	
[7] SBAA0	AY29	SA_BS[0]	
[7] SBAA1	AW28	SA_BS[1]	
[7] SBAA2	AV20	SA_BS[2]	
[7] -CSA0	AU29	SA_CS#	
[7] -CSA1	AV32	SA_CS#	
[7] CKEA0	AV19	SA_CKE[0]	
[7] CKEA1	AT19	SA_CKE[1]	
[7] CKEA2	AU18	SA_CKE[2]	
[7] CKEA3	AV18	SA_CKE[3]	
MODT_A0	AV31	SA_ODT[0]	
MODT_A1	AU32	SA_ODT[1]	
MODT_A2	AU30	SA_ODT[2]	
MODT_A3	AW33	SA_ODT[3]	
[7] DCLKA0	AY25	SA_CK[0]	
[7] -DCLKA0	AW25	SA_CK[0]	
[7] DCLKA1	AU24	SA_CK[1]	
[7] -DCLKA1	AU25	SA_CK[1]	
[7] DCLKA2	AY27	SA_CK[2]	
[7] -DCLKA2	AY27	SA_CK[2]	
[7] DCLKA3	AV26	SA_CK[3]	
[7] -DCLKA3	AW26	SA_CK[3]	
[7,8] -DDR3_RST	AW18	SM_DRAMRST#	
AV13	SA_DQS[8]		
AV12	SA_DQS#8		
AU12	SA_ECC_CB[0]		
AU14	SA_ECC_CB[1]		
AW13	SA_ECC_CB[2]		
AY13	SA_ECC_CB[3]		
AU13	SA_ECC_CB[4]		
AU11	SA_ECC_CB[5]		
AY12	SA_ECC_CB[6]		
AW12	SA_ECC_CB[7]		
AR40	MDA40		
AR37	MDA41		
AN38	MDA42		
AN37	MDA43		
AR39	MDA44		
AR38	MDA45		
AN39	MDA46		
AN40	MDA47		
AK38	DQSA6		
AK39	-DQSA6		
AL40	MDA48		
AL37	MDA49		
AJ38	MDA50		
AJ37	MDA51		
AL39	MDA52		
AL38	MDA53		
AJ39	MDA54		
AJ40	MDA55		
AF38	DQSA7		
AF39	-DQSA7		
AG40	MDA56		
AG37	MDA57		
AE38	MDA58		
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AG39	MDA60		
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AE39	MDA62		
AE40	MDA63		

DDR\_0

1 OF 10

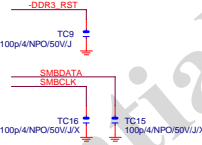
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MAAB1	AM20	SB_MA[1]	SB_DQS[0]
MAAB2	AM19	SB_MA[2]	
MAAB3	AK18	SB_MA[3]	
MAAB4	AP19	SB_MA[4]	
MAAB5	AP18	SB_MA[5]	
MAAB6	AM18	SB_MA[6]	
MAAB7	AL18	SB_MA[7]	
MAAB8	AN18	SB_MA[8]	
MAAB9	AY17	SB_MA[9]	
MAAB10	AN23	SB_MA[10]	
MAAB11	AU17	SB_MA[11]	
MAAB12	AT18	SB_MA[12]	
MAAB13	AR26	SB_MA[13]	
MAAB14	AY16	SB_MA[14]	
MAAB15	AV16	SB_MA[15]	
[8] -SWEB	AR25	SB_WE#	
[8] -SCASB	AK25	SB_CAS#	
[8] -SRASB	AP24	SB_RAS#	
[8] SBAB0	AP23	SB_BS[0]	
[8] SBAB1	AM24	SB_BS[1]	
[8] SBAB2	AW17	SB_BS[2]	
[8] -CSB0	AN25	SB_CS#	
[8] -CSB1	AN26	SB_CS#	
[8] CKEB0	AU16	SB_CKE[0]	
[8] CKEB1	AY15	SB_CKE[1]	
[8] CKEB2	AW15	SB_CKE[2]	
[8] CKEB3	AV15	SB_CKE[3]	
MODT_B0	AL26	SB_ODT[0]	
MODT_B1	AP26	SB_ODT[1]	
MODT_B2	AM26	SB_ODT[2]	
MODT_B3	AK26	SB_ODT[3]	
[8] DCLKB0	AL21	SB_CK[0]	
[8] -DCLKB0	AL22	SB_CK[0]	
[8] DCLKB1	AL20	SB_CK[1]	
[8] -DCLKB1	AK20	SB_CK[1]	
[8] DCLKB2	AL23	SB_CK[2]	
[8] -DCLKB2	AM22	SB_CK[2]	
[8] DCLKB3	AP21	SB_CK[3]	
[8] -DCLKB3	AN21	SB_CK[3]	
VREF_DQB	AH1	FC_AH1	
VREF_DQA	AH4	FC_AH4	
AN16	SB_DQS[8]		
AN15	SB_DQS#8		
AL16	SB_ECC_CB[0]		
AM16	SB_ECC_CB[1]		
AP16	SB_ECC_CB[2]		
AL15	SB_ECC_CB[3]		
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AM14	SB_ECC_CB[7]		
AP14	SB_ECC_CB[8]		
AL13	SB_ECC_CB[9]		
AM13	SB_ECC_CB[10]		
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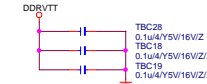
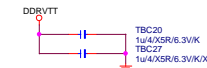
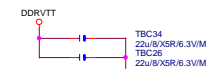
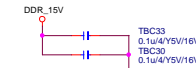
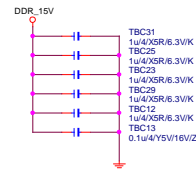
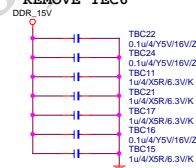




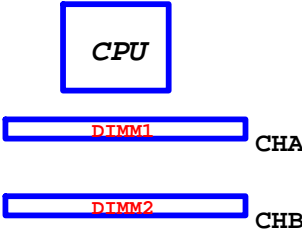
REMOVE TEC6



REMOVE TECC





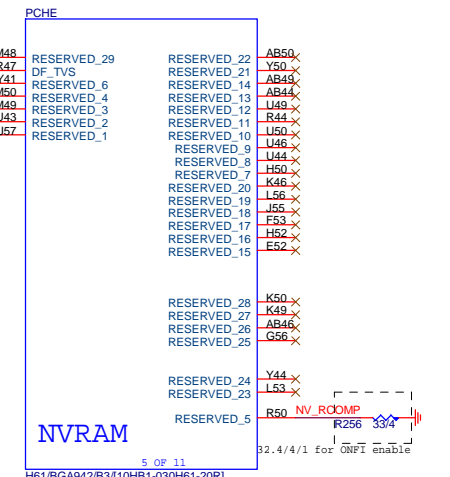
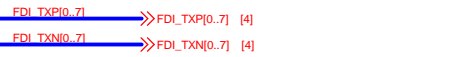




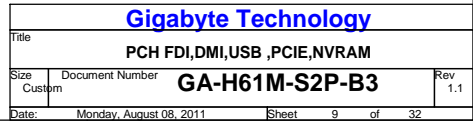
PCHG		FDILINK		
		FDI_RXN0	C42	FDI_TXN0
		FDI_RXP0	B43	FDI_TXP0
TP21		FDI_RXN1	F45	FDI_TXN1
TP25		FDI_RXP1	F43	FDI_TXP1
TP29		FDI_RXN2	H41	FDI_TXN2
TP33		FDI_RXP2	J41	FDI_TXP2
		FDI_RXN3	C46	FDI_TXN3
		FDI_RXP3	D47	FDI_TXP3
TP26		FDI_RXN4	B45	FDI_TXN4
TP30		FDI_RXP4	A46	FDI_TXP4
TP34		FDI_RXN5	B47	FDI_TXN5
		FDI_RXP5	C49	FDI_TXP5
TP23		FDI_RXN6	J43	FDI_TXN6
TP27		FDI_RXP6	H43	FDI_TXP6
TP31		FDI_RXN7	M43	FDI_TXN7
TP35		FDI_RXP7	P43	FDI_TXP7
TP24				
TP28	FDI_FSYNC0		B51	FDI_FSYNC0
TP32	FDI_LSYNC0		E49	FDI_LSYNC0
TP36	FDI_FSYNC1		C52	FDI_FSYNC1
	FDI_LSYNC1		D51	FDI_LSYNC1
	FDI_INT		H46	FDI_INT

7 OP 11

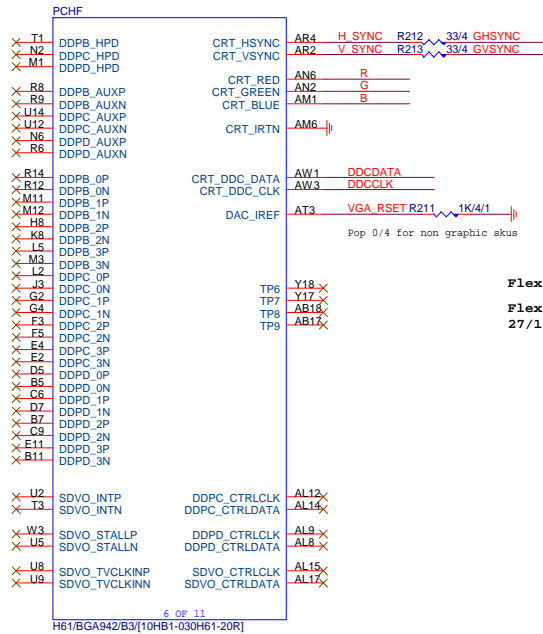
H61/BGA942/B31(10H1-030H61-20R)



# LOW COST ICH7 HEATSINK

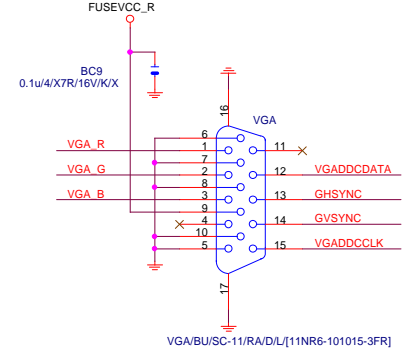
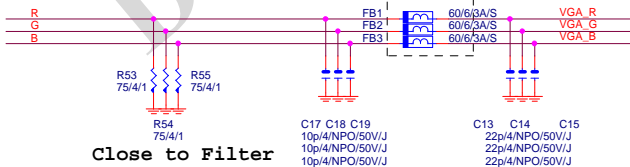
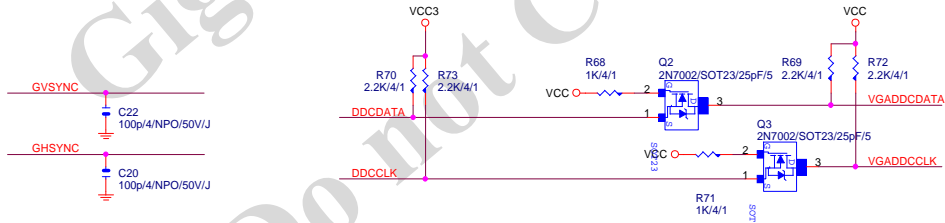
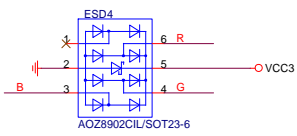
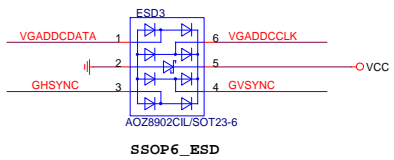
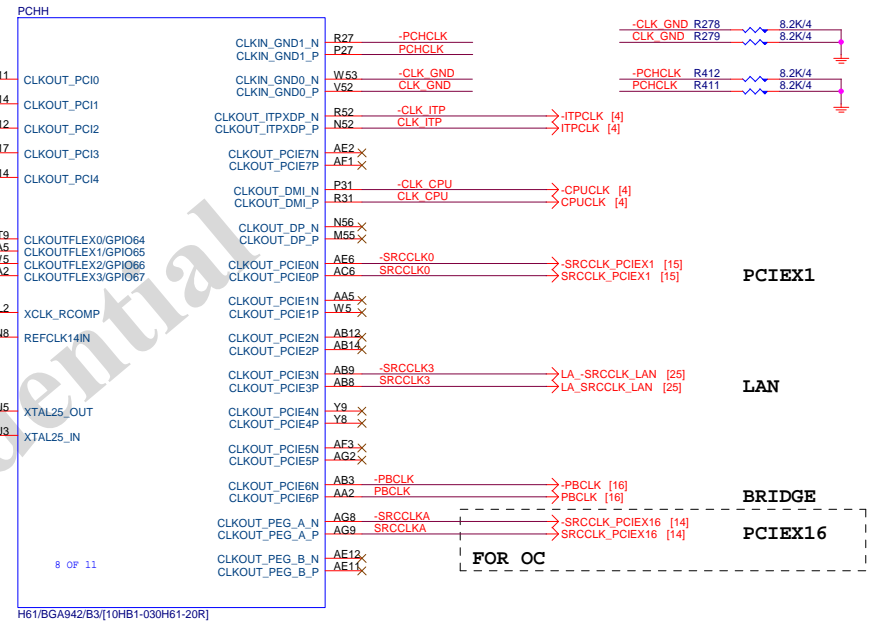
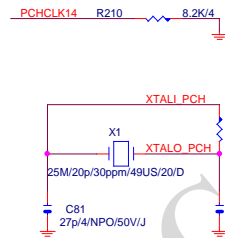






Flex0,2 : 33MHZ

Flex1,3 :  
27/14/24/48/25MHZ

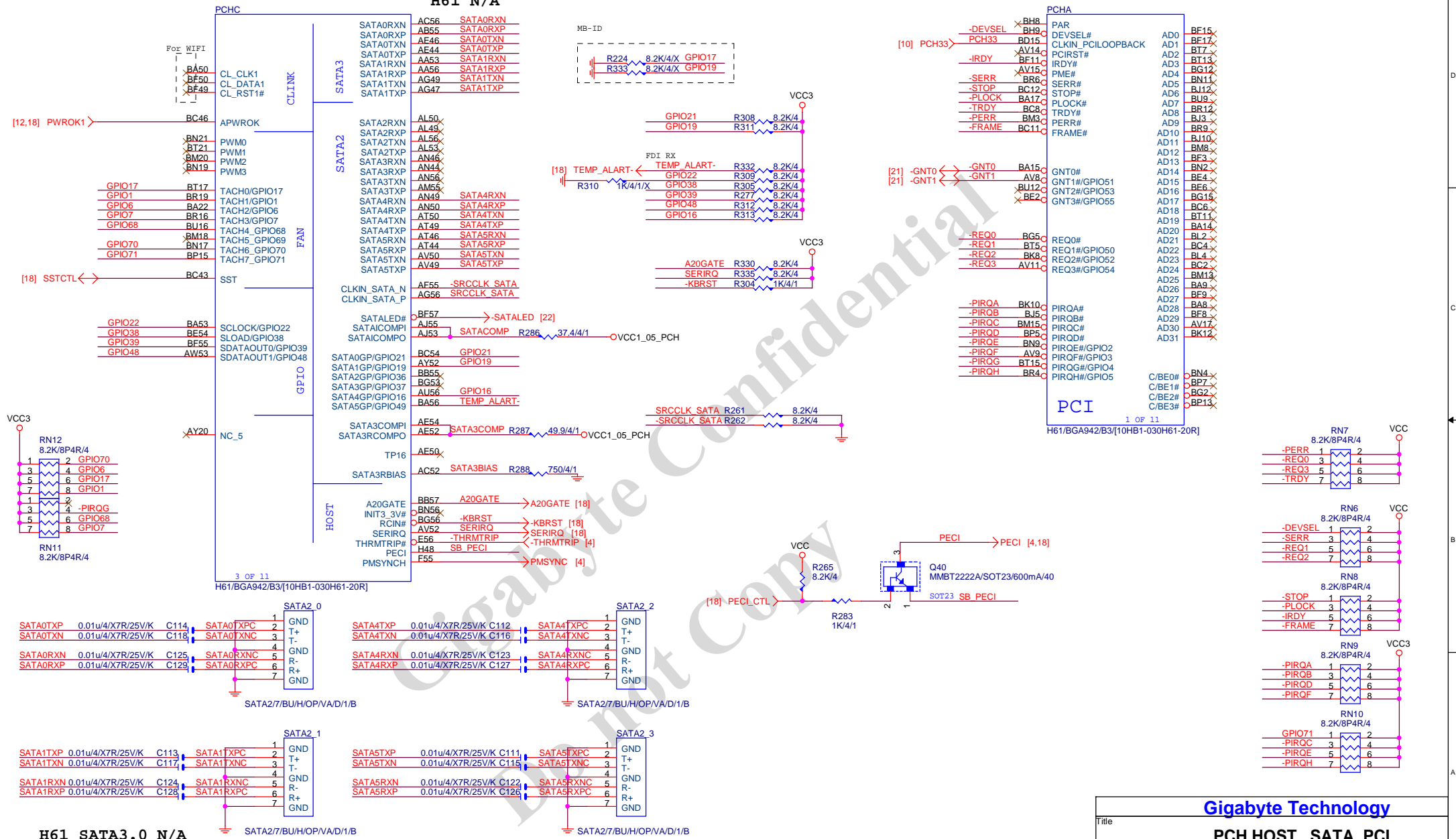


Close to Filter

<b>Gigabyte Technology</b>			
Title			
PCH DISPLAY ,CLK BUFFER			
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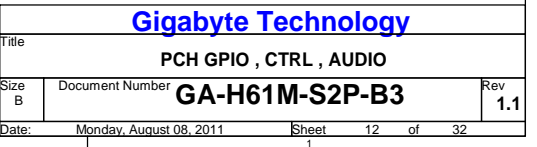
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B65 SATA3.0 ONLY PORT0
H61 N/A
```



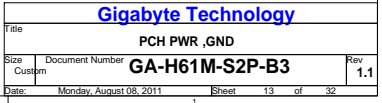
H61 SATA3.0 N/A

H1X7-SATA2-HS-MASK

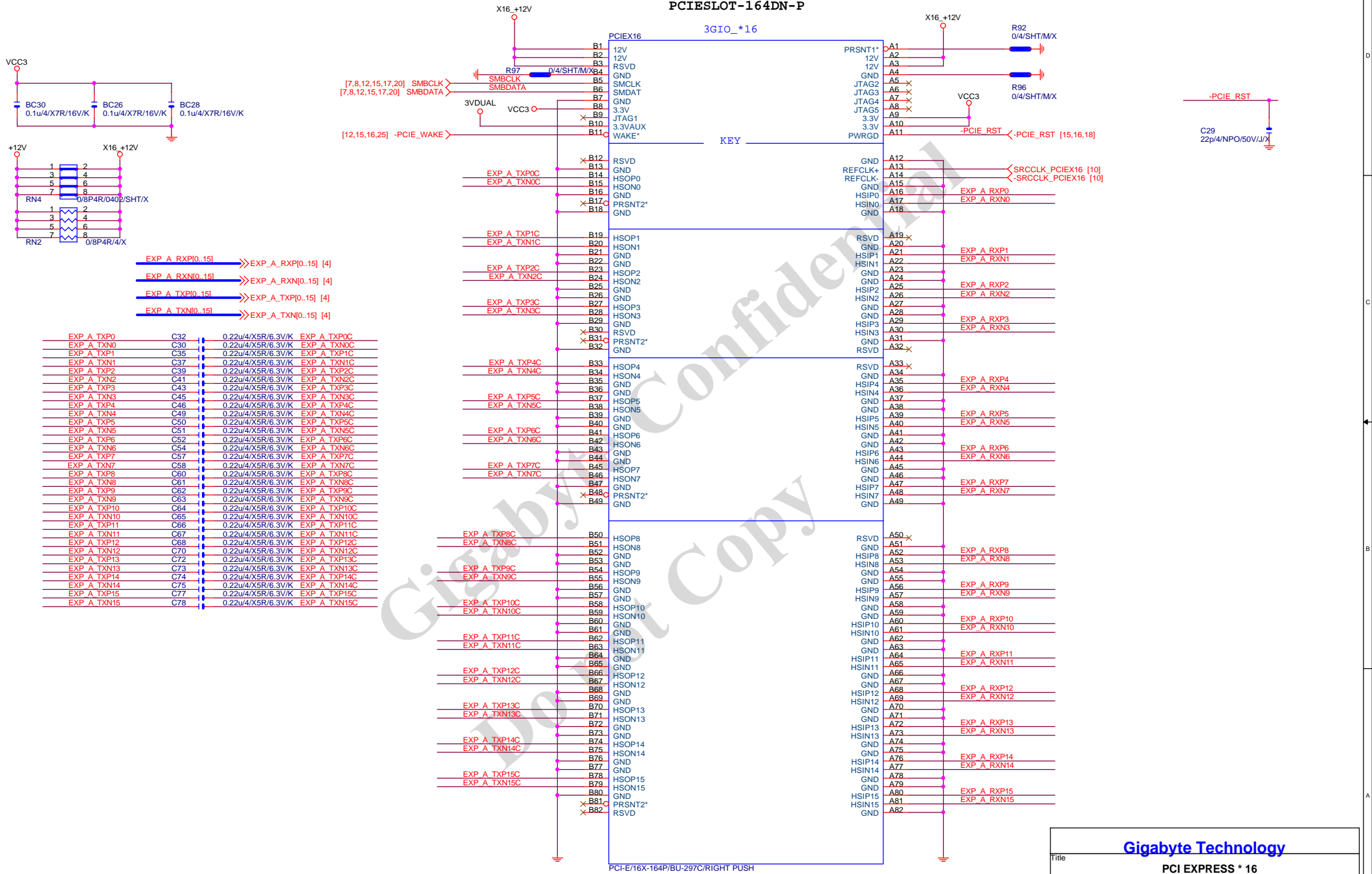




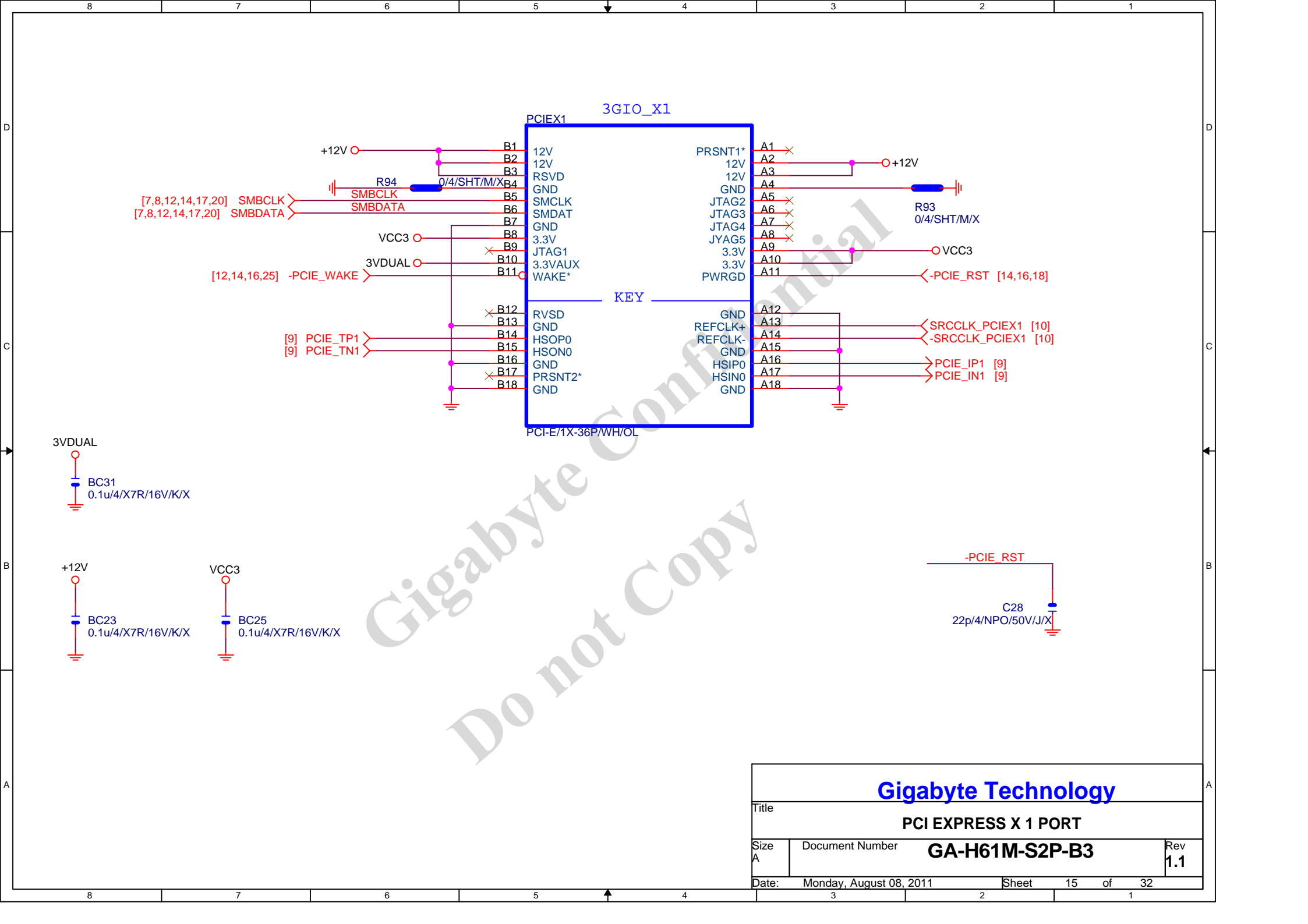








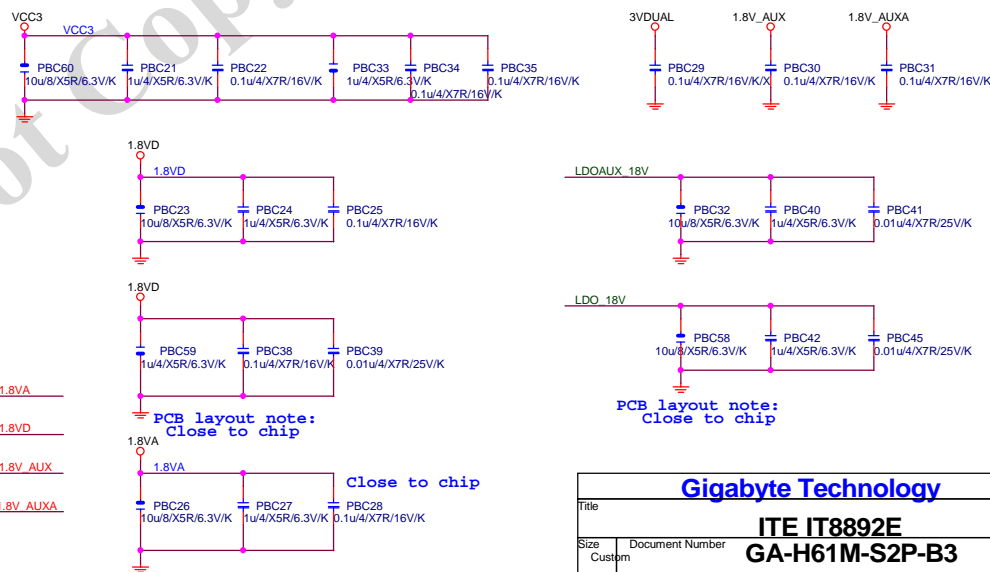
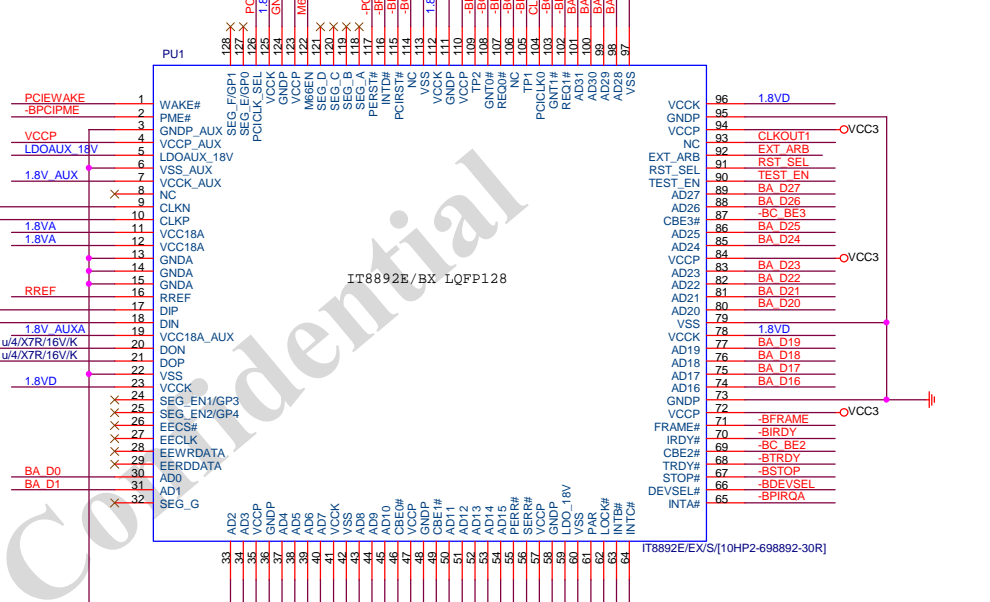
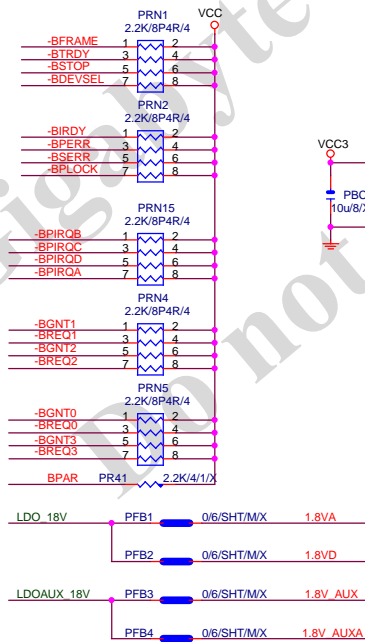
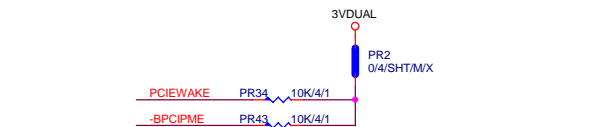
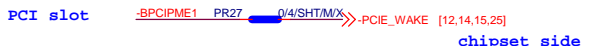
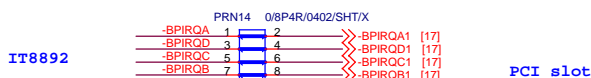
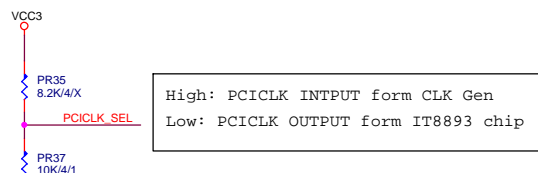
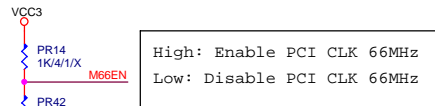
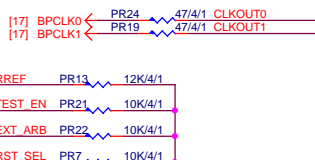
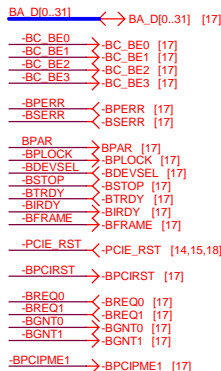






# PCIe TO PCI

PCI:5/4/5 Impedance=50 +- 15%

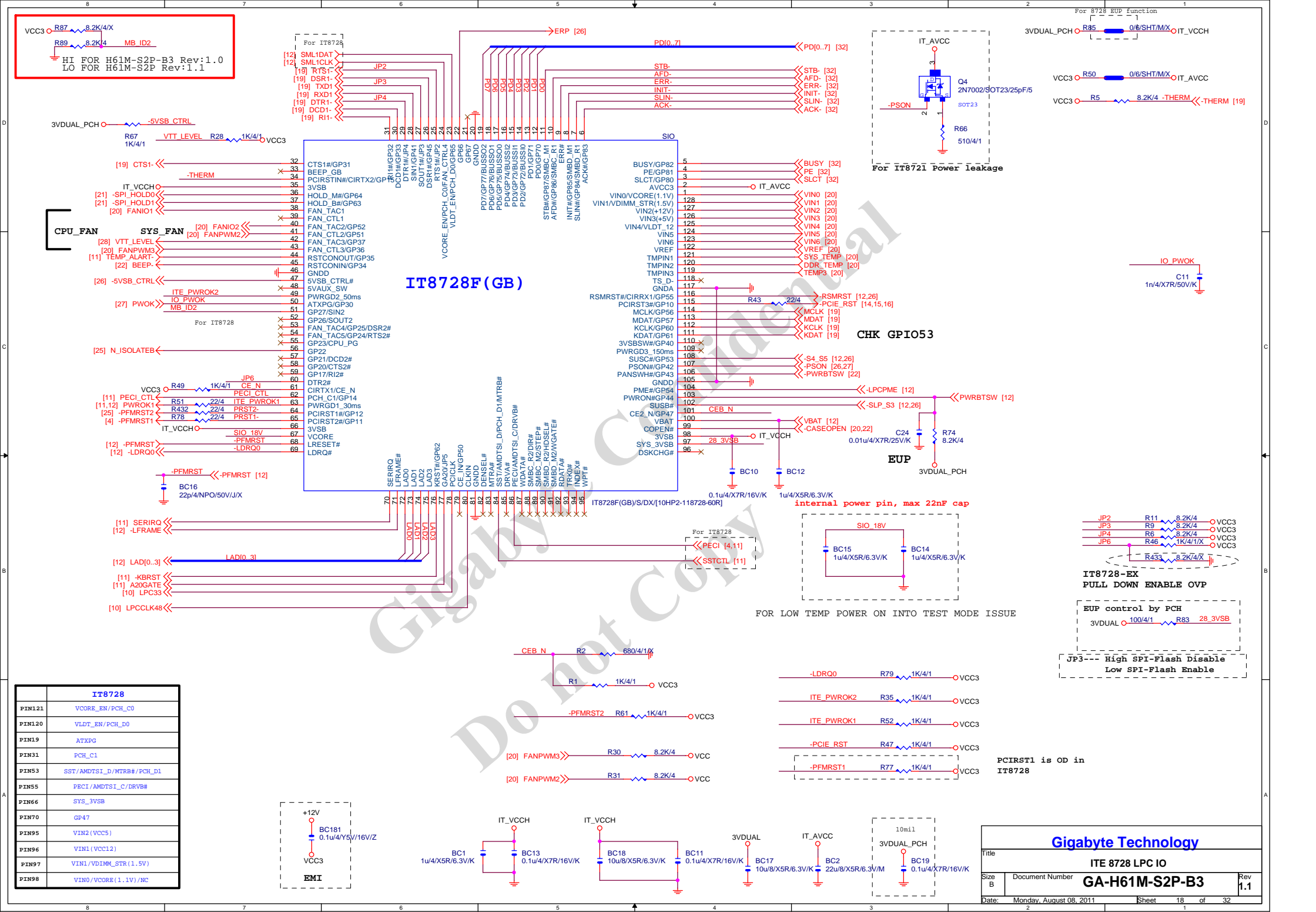


Gigabyte Technology			
Title			
ITE IT8892E			
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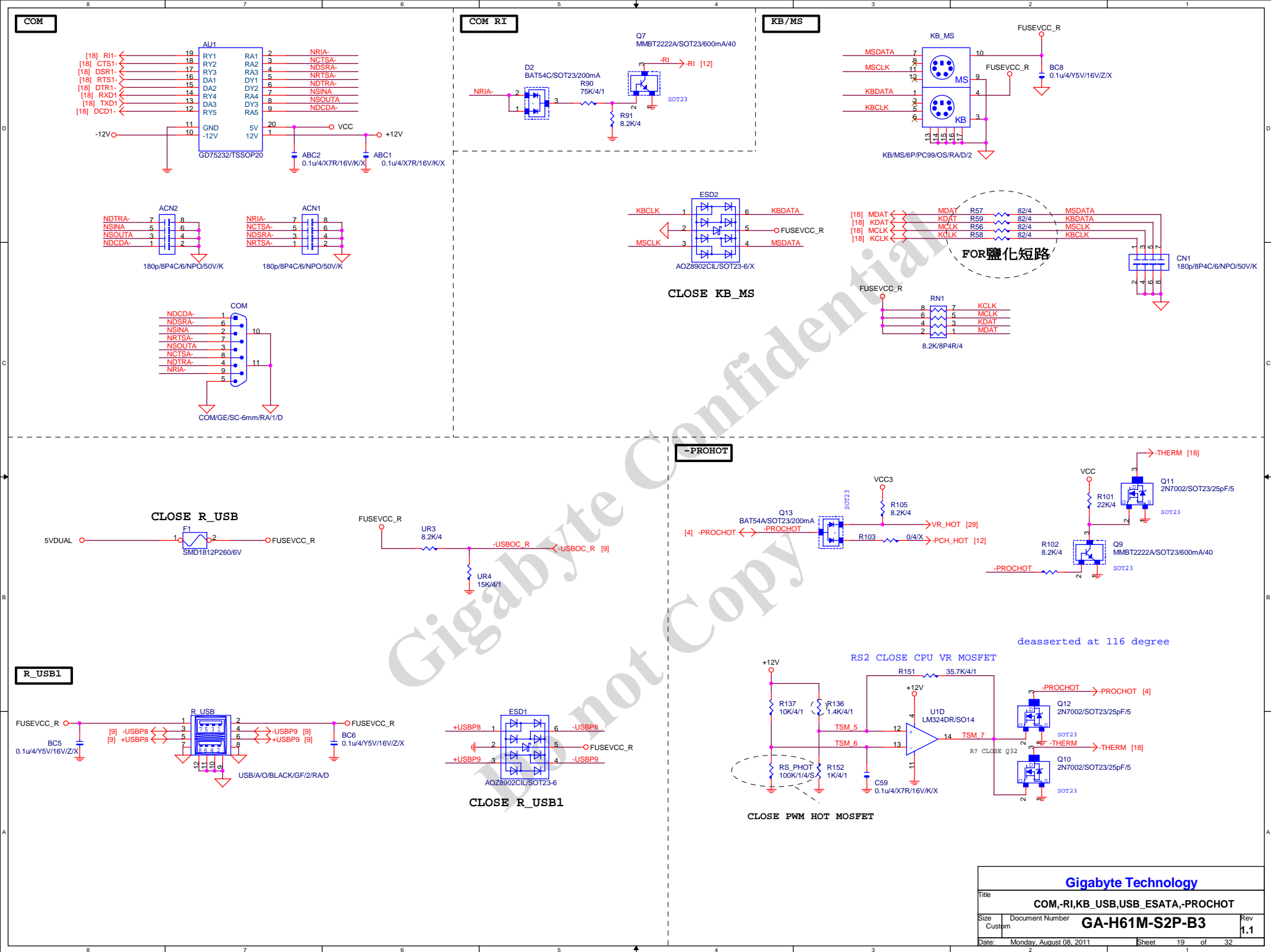






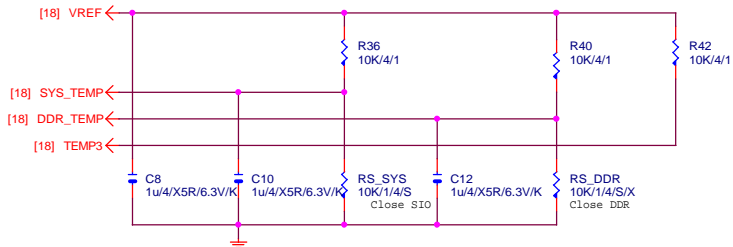




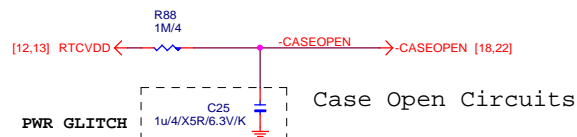




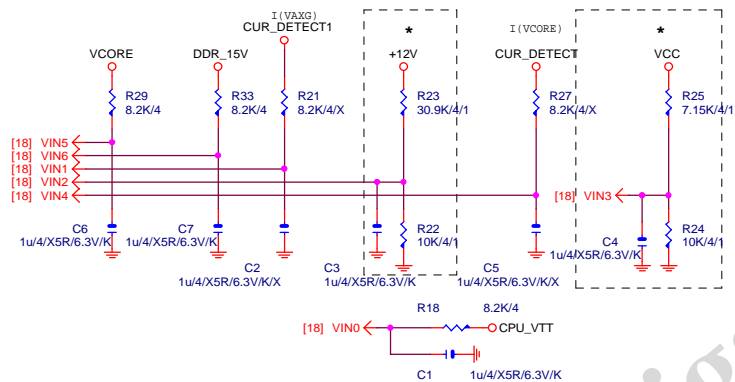
# TEMP H/W MONITOR



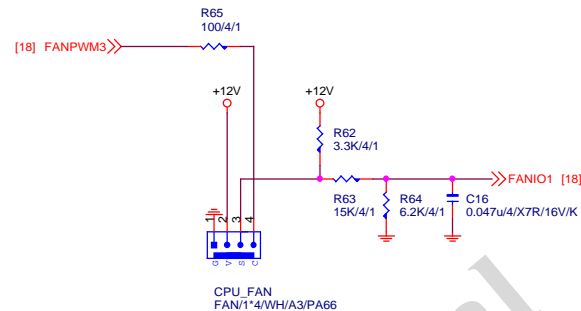
# CASE OPEN



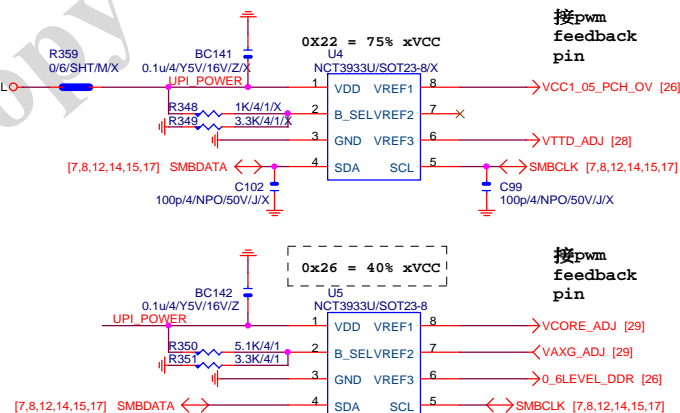
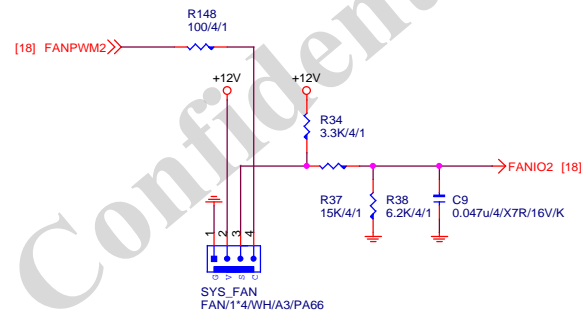
# VOLTAGE-- H/W MONITOR



# CPU SMART FAN



# SYS SMART FAN



Gigabyte Technology

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DUAL BIOS

## H61使用32M BIOS

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

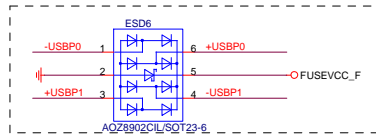
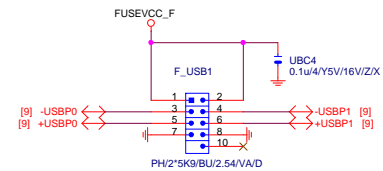
```

1 means floating
0 means PD 1K

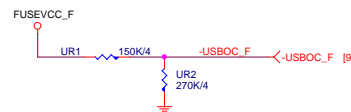
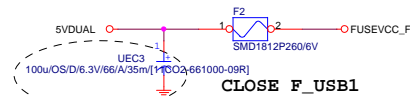
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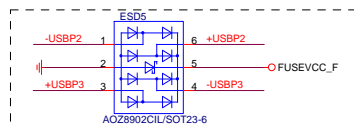
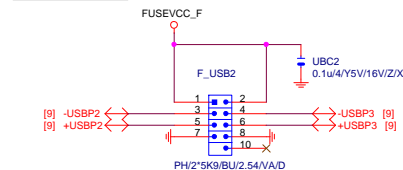
# FRONT USB1



Close to connector

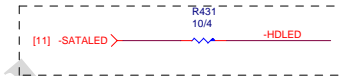
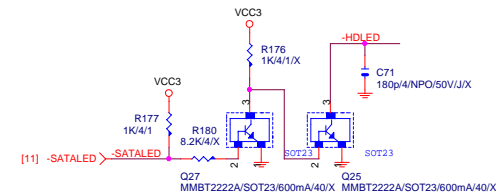


# FRONT USB2

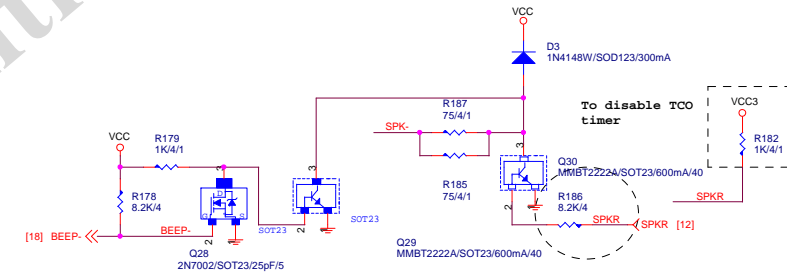


Close to connector

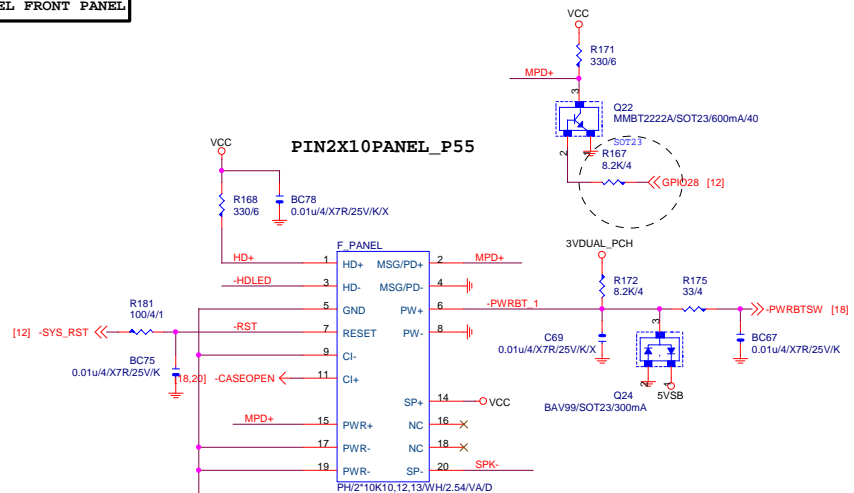
# SATA LED



# SPKR



# INTEL FRONT PANEL



Gigabyte Technology

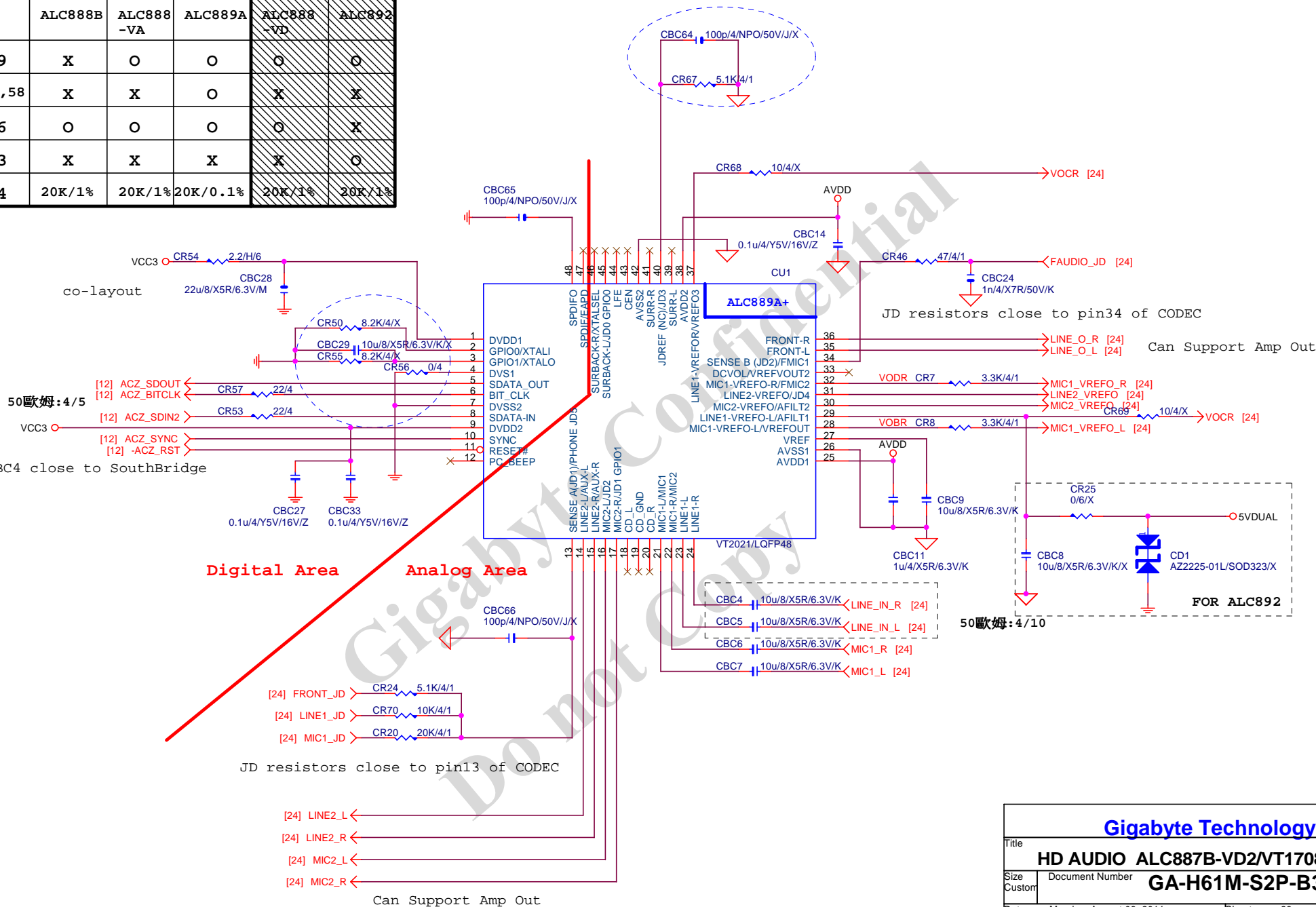
Title			FP,F_USB,USB PWR,SPKR,SATA LED
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# AZALIA CODEC

ALC892/ALC889A/ALC889/ALC888B Colay

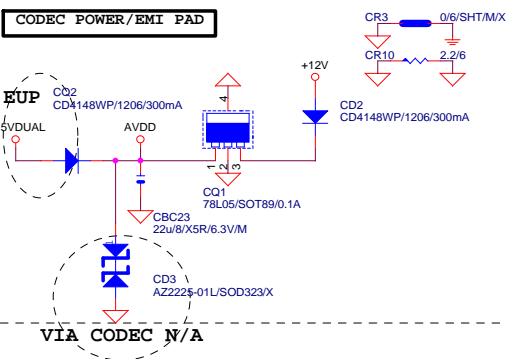
	ALC888B	ALC888-VA	ALC889A	ALC888-VD	ALC892
CR59	X	O	O	O	O
CR53,58	X	X	O	X	X
CR56	O	O	O	O	X
CR63	X	X	X	X	O
CR34	20K/1%	20K/1%	20K/0.1%	20K/1%	20K/1%



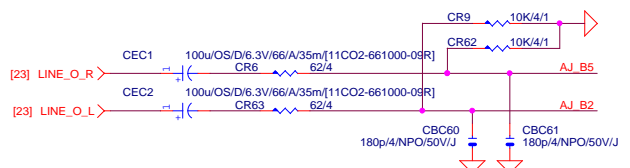
Gigabyte Technology				
Title	HD AUDIO ALC887B-VD2/VT1708S/VT2021			
Size	Document Number	GA-H61M-S2P-B3		Rev
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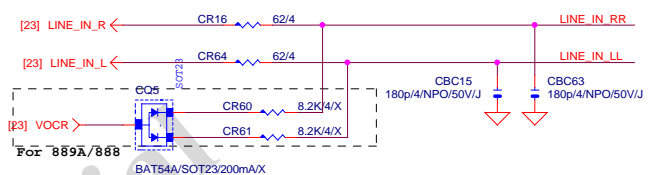
CODEC POWER/EMI PAD



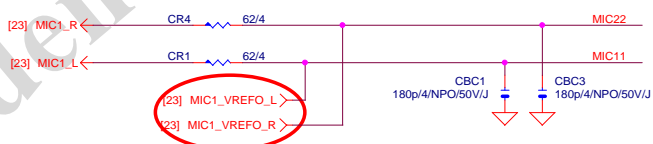
LINE-OUT



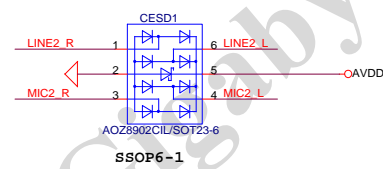
LINE-IN



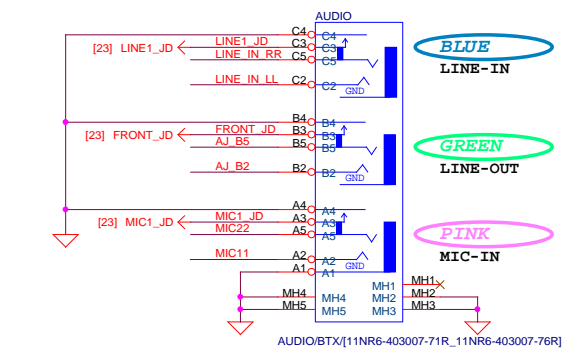
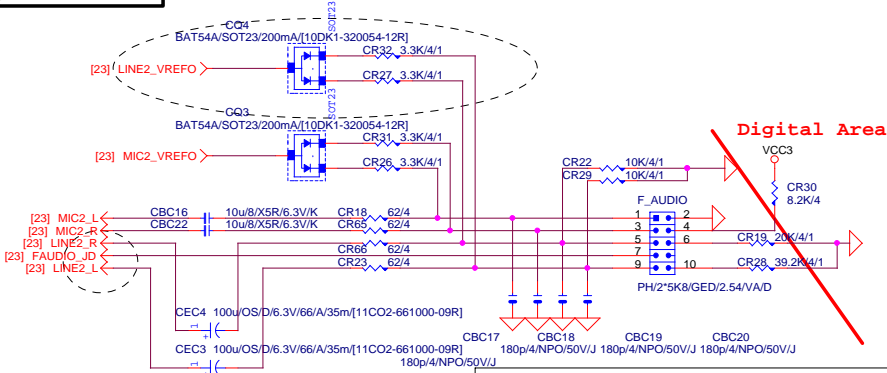
MIC-IN



AZALIA JACK



AZALIA FRONT PANEL

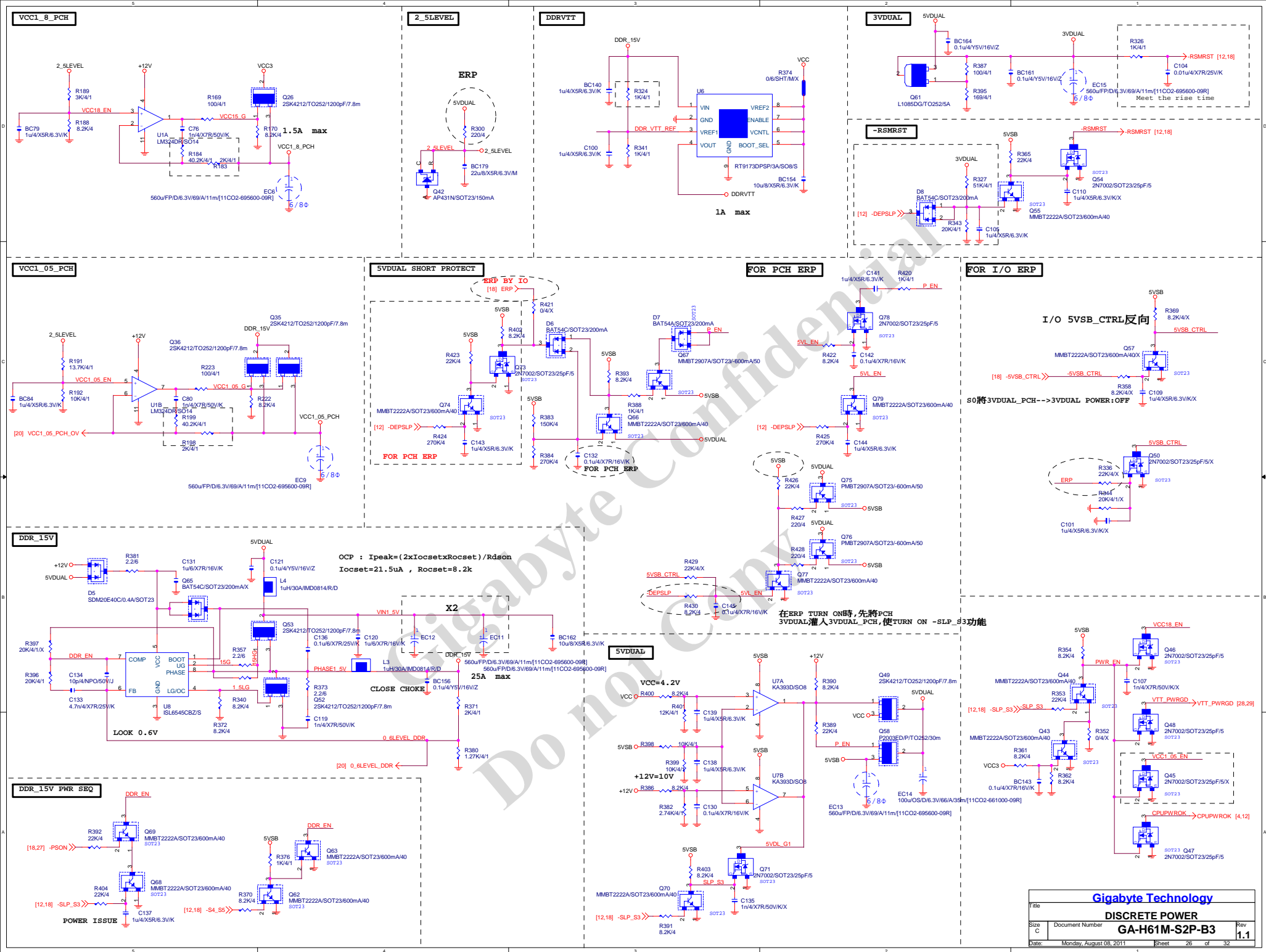


Gigabyte Technology			
Title			
AUDIO JACK			
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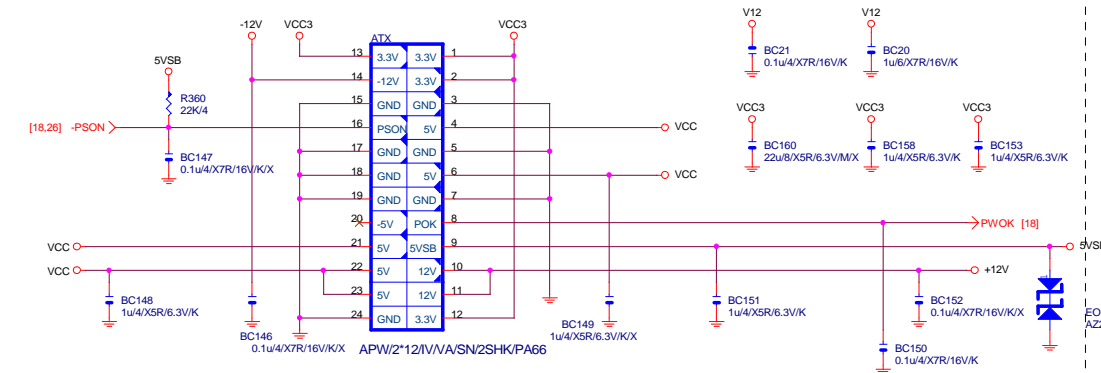




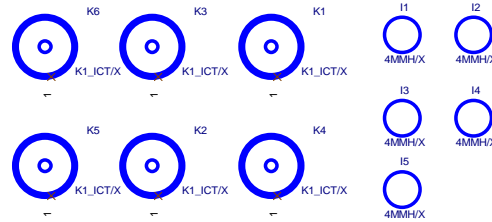
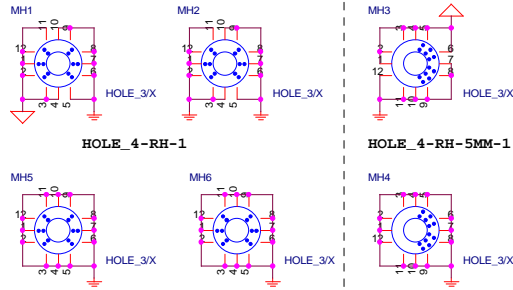
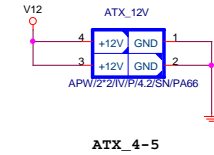




# ATXX24 POWER CONNECTOR



# ATXX4 POWER CONNECTOR



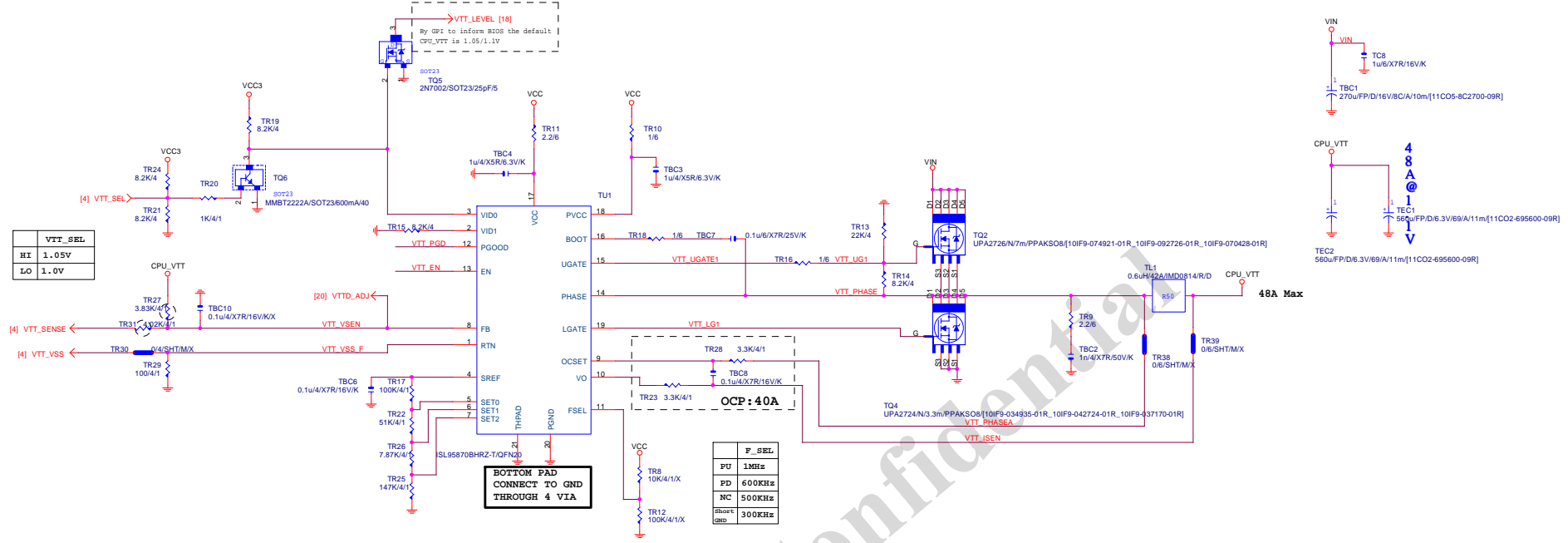
To prevent the 5VSB under loading when boot

Gigabyte Technology

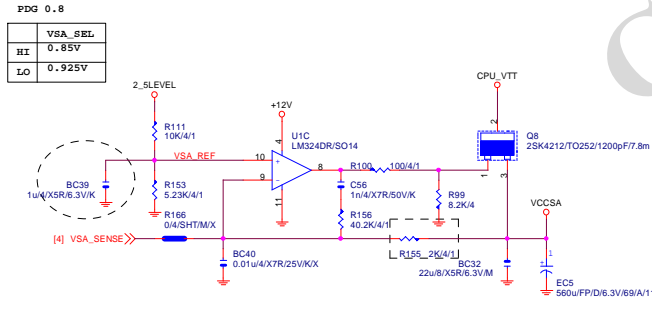
Title		
ATX CONNECTOR		
Size	Document Number	Rev
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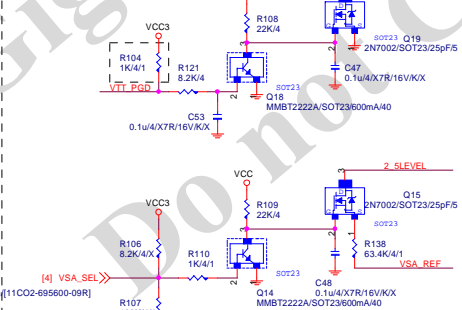
CPU\_VTT



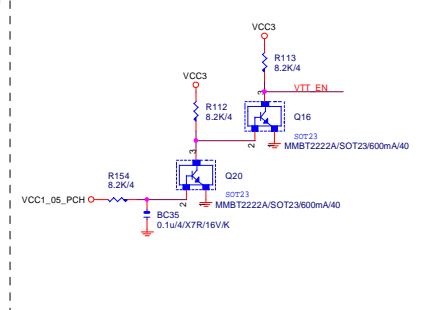
VCCSA



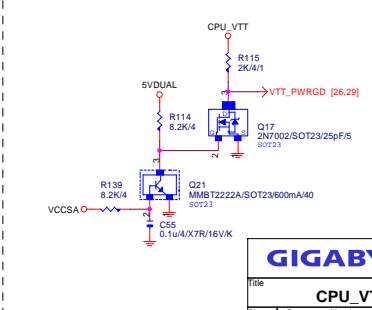
VCCSA\_PWR\_SEQ



CPU\_VTT\_PWR\_SEQ



VTT\_PWRGD





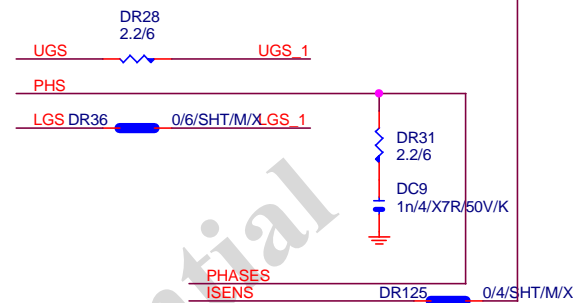
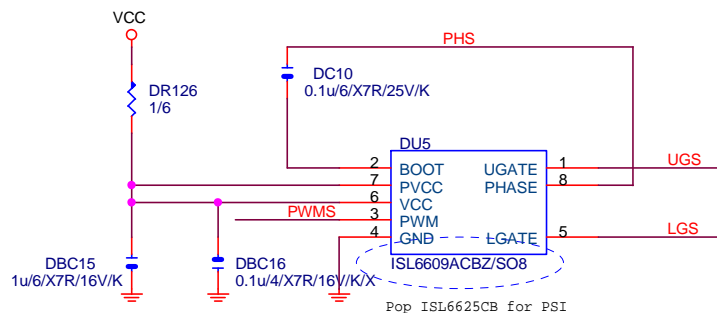




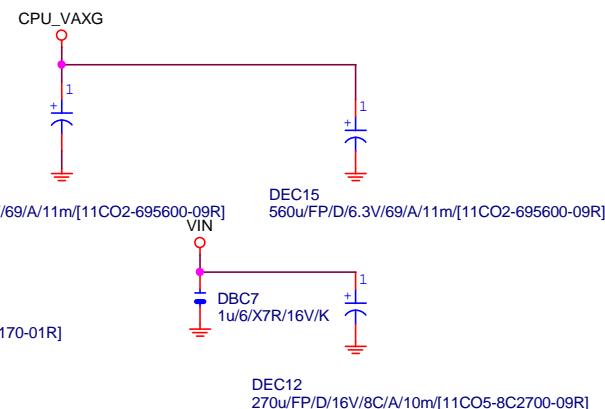
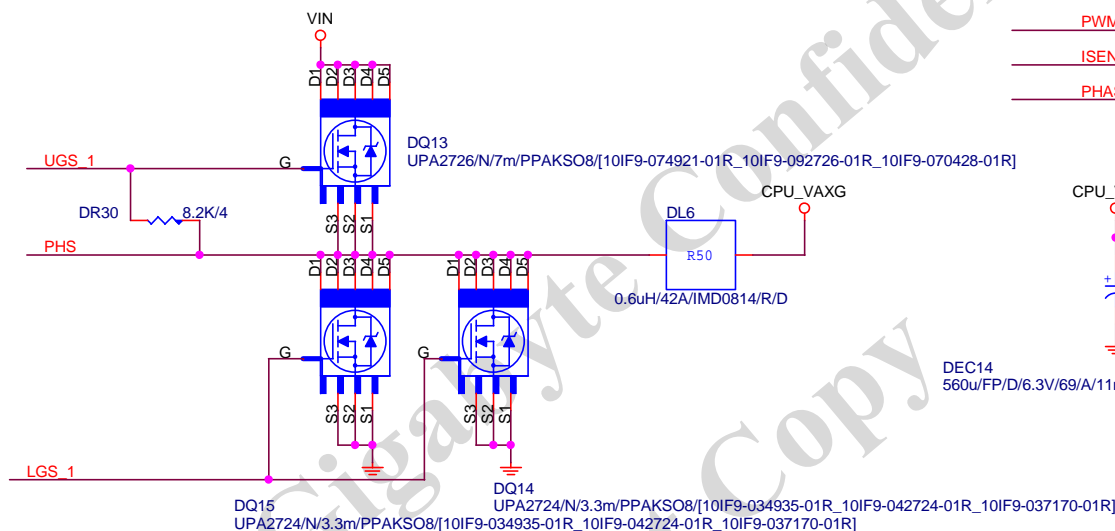
# VAXG

ISL6612 use +12V  
ISL6609 use VCC

ISL6612 use 1 ohm  
ISL6609 use 0 ohm



PWMS → PWMS [29]  
ISENS → ISENS [29]  
PHASES → PHASES [29]



# MOS HEATSINK

Gigabyte Technology			
Title			
CPU CORE VR-2			
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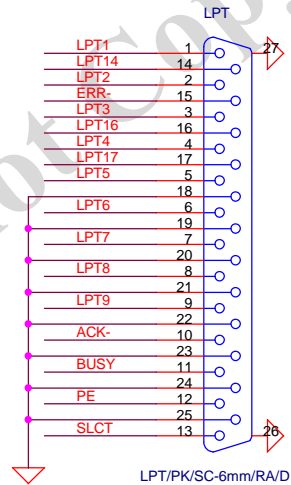
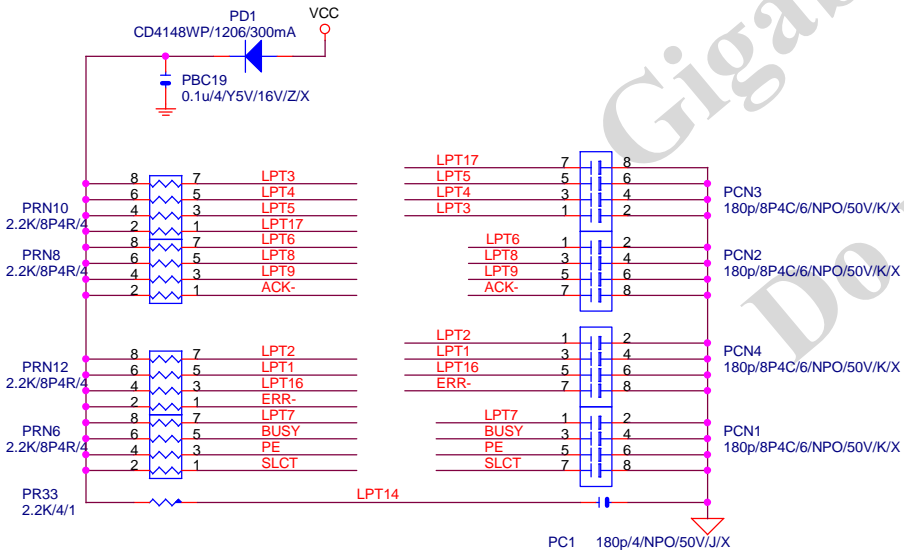
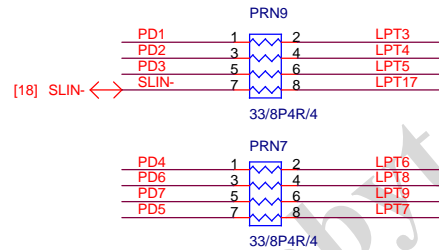
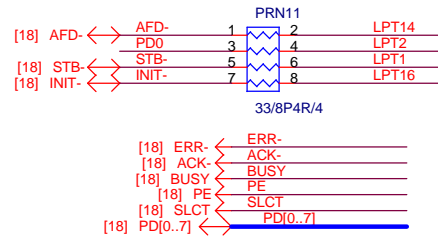
TPM

N/A

LPT PORT

COMB

N/A



Gigabyte Technology

Title			LPT
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