

Model Name: GA-H61M-S2PV

Revision 2.01

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	PCH_PWR,GND
14	PCI EXPRESS*16 SLOT
15	PCI EXPRESS*1 SLOT
16	IT8892E
17	PCI SLOT1&2
18	ITE 8728 LPC IO
19	COM,KB_USB,USB_ESATA,-PROCHOT
20	HWM,FAN CTRL,OV,
21	DUAL BIOS
22	FP,FUSB,SPK,SATALED
23	Realtek ALC887-VD2
24	REAR AUDIO JACK
25	Artheros AR8151/8161
26	DISCRETE POWER
27	ATX

SHEET

TITLE

28	RT8120_CPU_VTT
29	VCORE ISL95836_1
30	VCORE ISL95836_2
31	VCORE ISL95836_3
32	LPT
33	DVI

Gigabyte Technology

Cover Sheet

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Revision 2.01

Component value change history

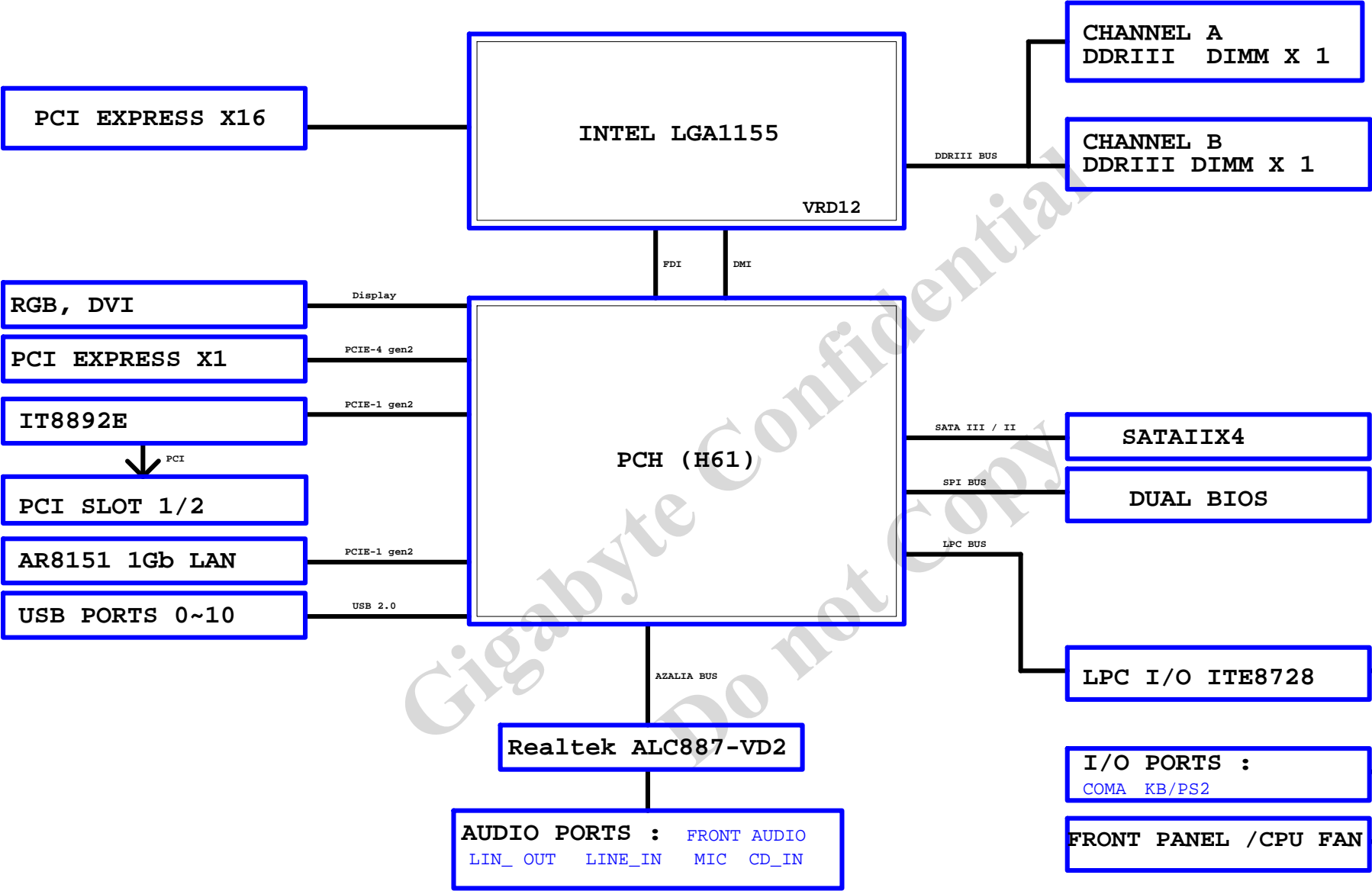
2011/11/29

[illegible]

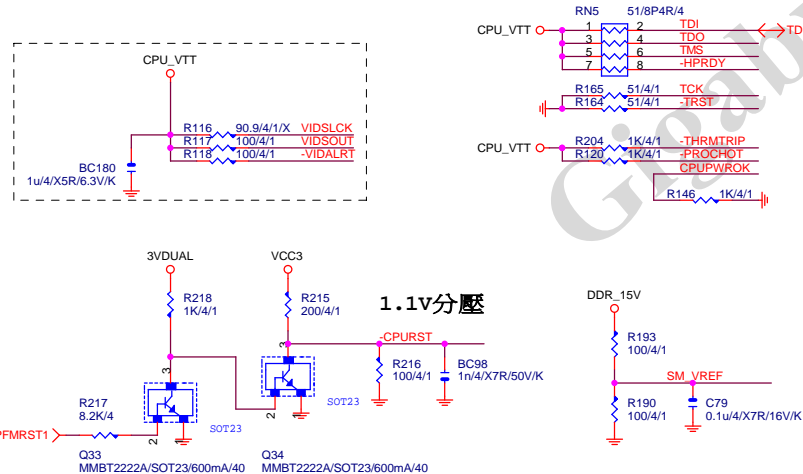
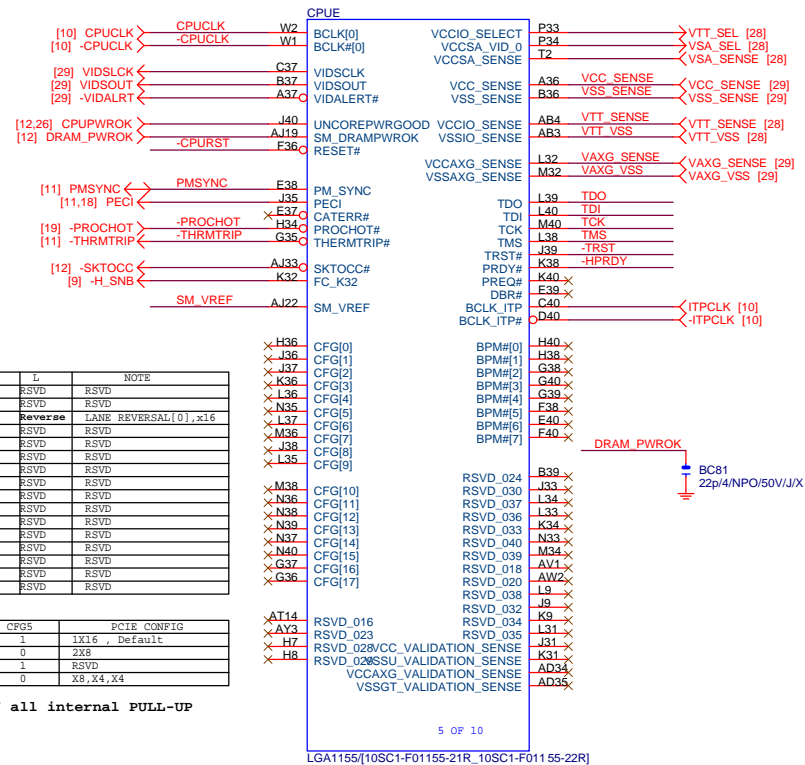
Circuit or PCB layout change

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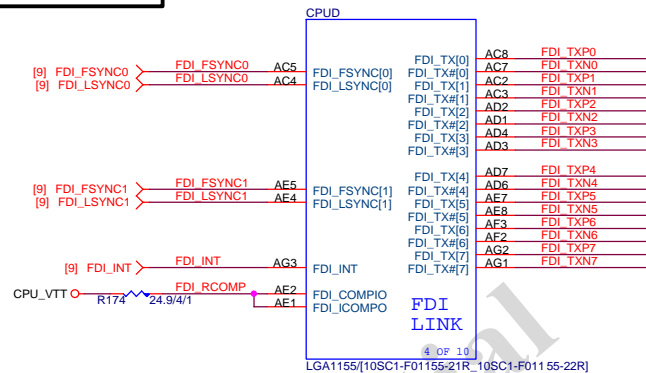
BLOCK DIAGRAM



CPU E



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100	1	1



CPU C



STITCHING CAP.

N/A

Stitching caps for PCIE,DMI,FDI bus

CPU A

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	AV22	SA_MA[7]	
MAAA8	AT22	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	AY29	SA_CS#	
[7] -CSA1	AV32	SA_CS#	
[7] -CSA2	AW30	SA_CS#	
[7] -CSA3	AU33	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]	
AU30	SA_ODT[2]		
AW33	SA_ODT[3]		
[7] DCLKA0	AY25	SA_CK[0]	
[7] -DCLKA0	AW25	SA_CK#	
[7] DCLKA1	AU24	SA_CK[1]	
[7] -DCLKA1	AW27	SA_CK#	
[7] DCLKA2	AY27	SA_CK[2]	
[7] DCLKA3	AV26	SA_CK[3]	
[7] DCLKA4	AW26	SA_CK#	
[7] DCLKA5	AW18	SM_DRAMRST#	
SA_DQS[3]			
SA_DQS[4]			
SA_DQS[5]			
SA_DQS[6]			
SA_DQS[7]			
SA_DQS[8]			
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DDR_0

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LGA1155[10SC1-F01155-21R_10SC1-F01155-22R]

CPU B

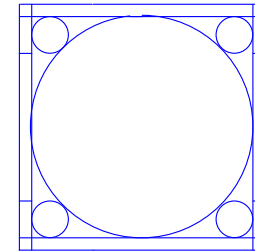
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MAAB1	AM20	SB_MA[1]	SB_DQS[0]
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MAAB3	AK18	SB_MA[3]	
MAAB4	AP19	SB_MA[4]	
MAAB5	AP18	SB_MA[5]	
MAAB6	AM18	SB_MA[6]	
MAAB7	AM18	SB_MA[7]	
MAAB8	AM18	SB_MA[8]	
MAAB9	AY17	SB_MA[9]	
MAAB10	AN23	SB_MA[10]	
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]	
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[8] -SCASB	AK25	SB_CAS#	
[8] -SRASB	AP24	SB_RAS#	
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[8] SBAB2	AW17	SB_BS[2]	
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[8] -CSB2	AL25	SB_CS#	
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[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]	
AM26	SB_ODT[2]		
AK26	SB_ODT[3]		
[8] DCLKB0	AL21	SB_CK[0]	
[8] -DCLKB0	AL22	SB_CK#	
[8] DCLKB1	AL20	SB_CK[1]	
[8] -DCLKB1	AK20	SB_CK#	
[8] DCLKB2	AL23	SB_CK[2]	
[8] DCLKB3	AM22	SB_CK[3]	
[8] DCLKB4	AP21	SB_CK[4]	
[8] DCLKB5	AN21	SB_CK[5]	
VREF_D0B	AH1	FC_AH1	
VREF_D0A	AH4	FC_AH4	
AN16	SB_DQS[8]		
AN15	SB_DQS[9]		
AN16	SB_ECC_CB[0]		
AN16	SB_ECC_CB[1]		
AN16	SB_ECC_CB[2]		
AN16	SB_ECC_CB[3]		
AN15	SB_ECC_CB[4]		
AN15	SB_ECC_CB[5]		
AN15	SB_ECC_CB[6]		
AN15	SB_ECC_CB[7]		
AR40	MDA40		
AR37	MDA41		
AN38	MDA42		
AN37	MDA43		
AR39	MDA44		
AR38	MDA45		
AN38	MDA46		
AN40	MDA47		
AK38	DQSA6		
AK39	-DQSA6		
AL40	MDA48		
AL37	MDA49		
AL38	MDA50		
AL37	MDA51		
AL38	MDA52		
AL38	MDA53		
AL39	MDA54		
AL40	MDA55		
AF38	DQSA7		
AF39	-DQSA7		
AG40	MDA56		
AG37	MDA57		
AE38	MDA58		
AE37	MDA59		
AG39	MDA60		
AG38	MDA61		
AE39	MDA62		
AE40	MDA63		

DDR_1

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LGA1155[10SC1-F01155-21R_10SC1-F01155-22R]

CPU SOCKET

CR
CPU RETENTION/X

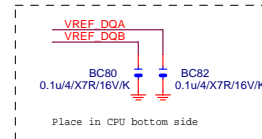
Need check the new CPU ME

CPU_P



ILM_BP/1156/CSP/ILM_BP/1156/CSP/[12KRC-0F0001-05R_12KRC-0F0001-31R]

DDR SIGNAL



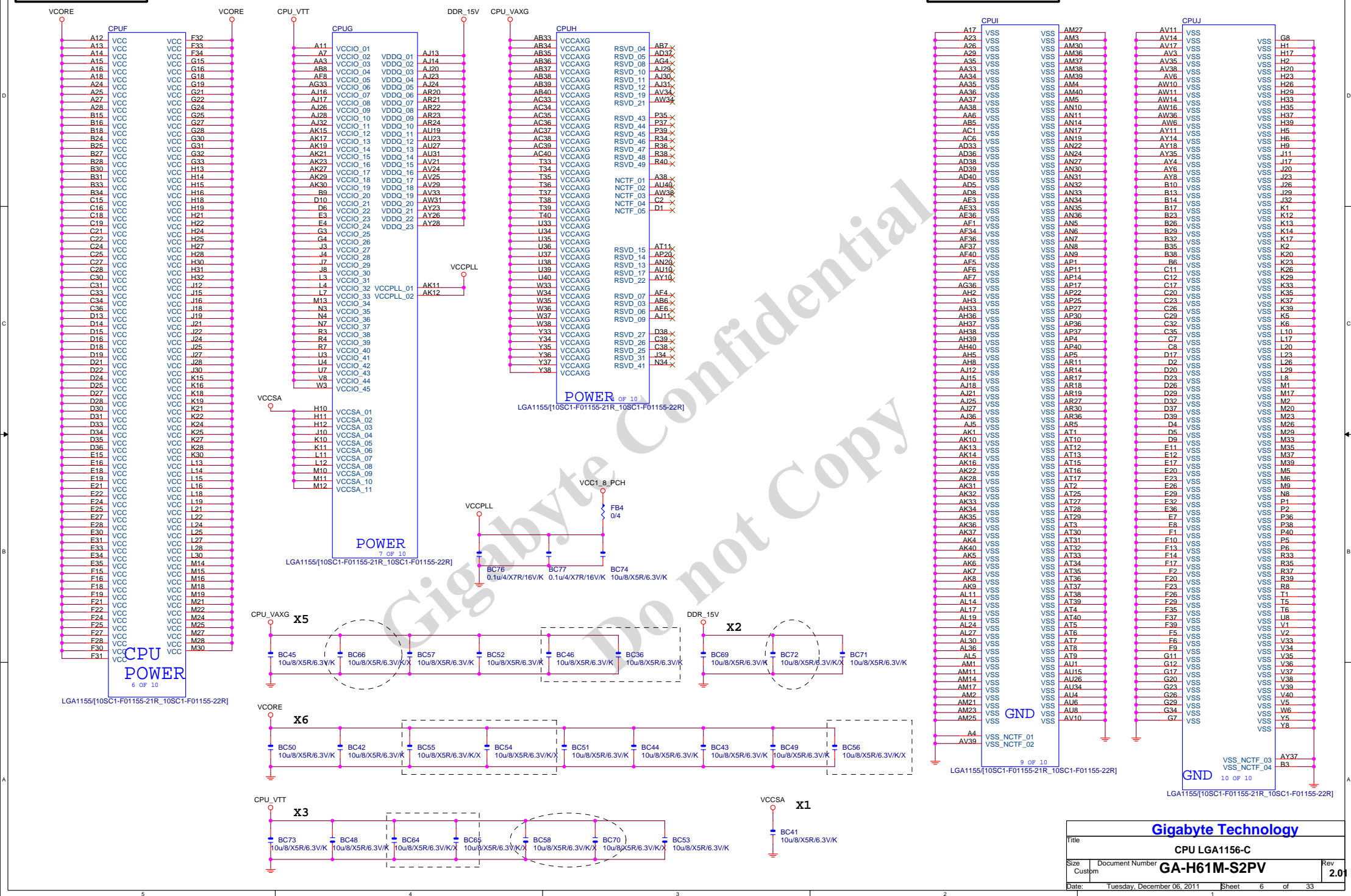
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[8] MDB[0..63]	MDB10..631
[7] DQSA[0..7]	DQSA10..71
[7] -DQSA[0..7]	-DQSA10..71
[7] MAA[0..15]	MAA10..151
[8] MAB[0..15]	MAB10..151
[7] DQSB[0..7]	DQSB10..71
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Title			
CPU LGA1156-B			
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CPU F,G,H POWER

CPU I,J GND



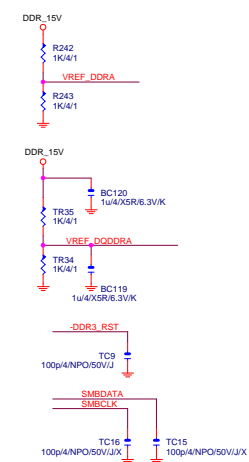
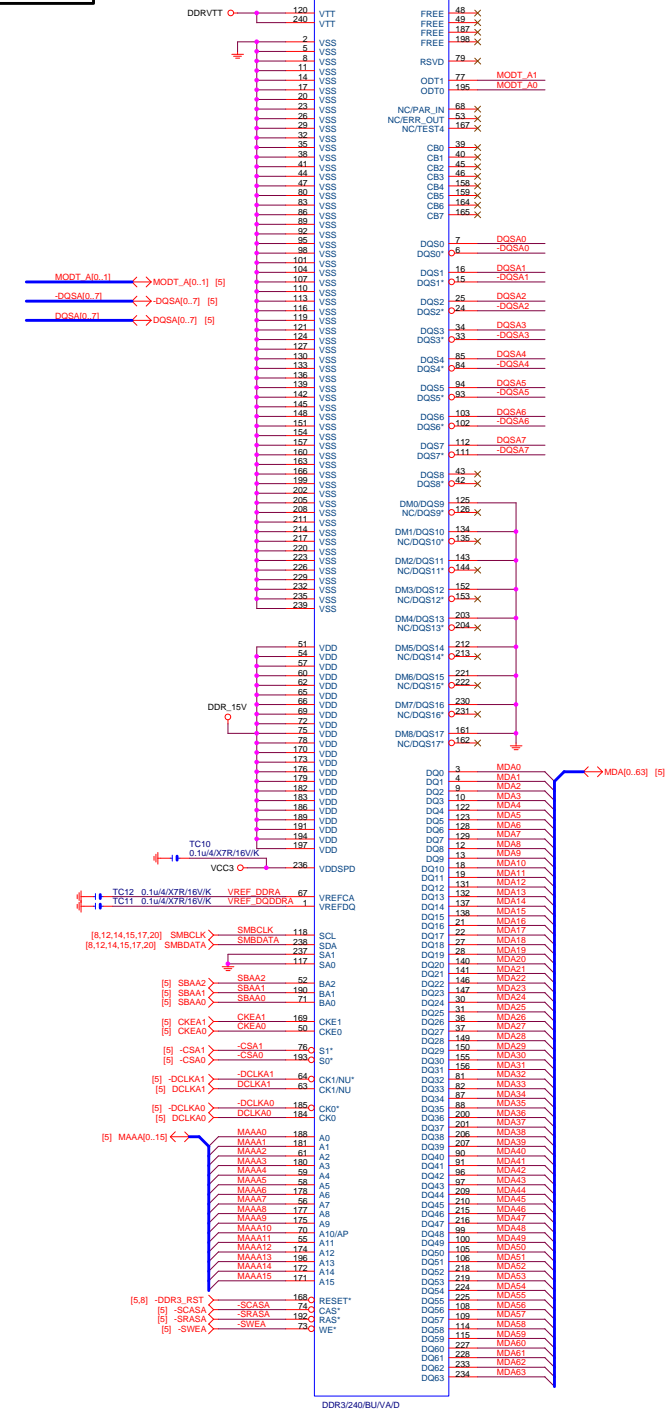
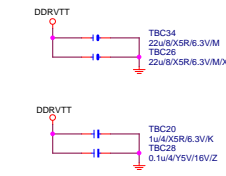
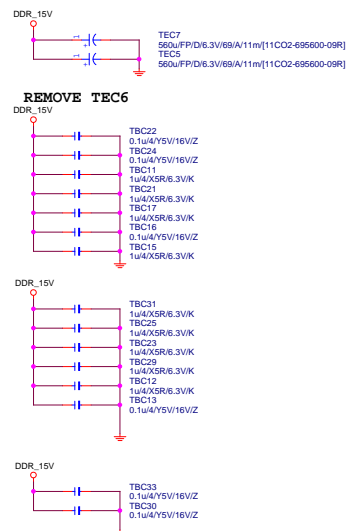
Gigabyte Technology

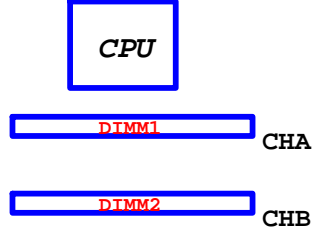
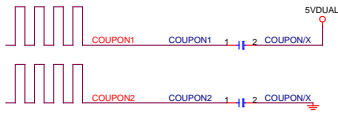
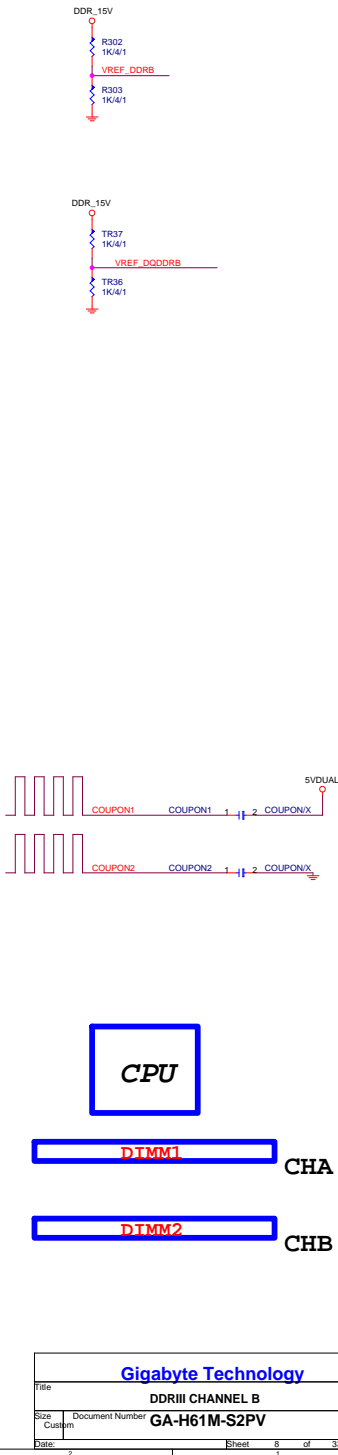
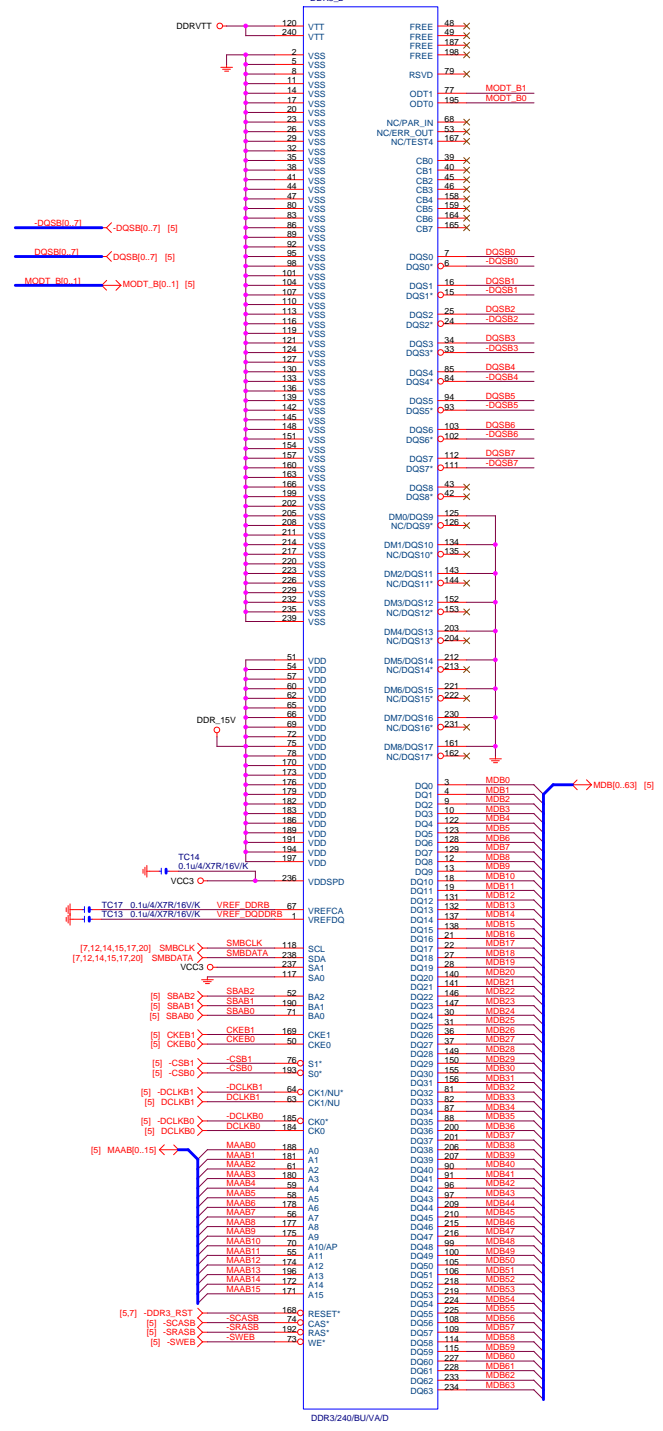
CPU LGA1156-C

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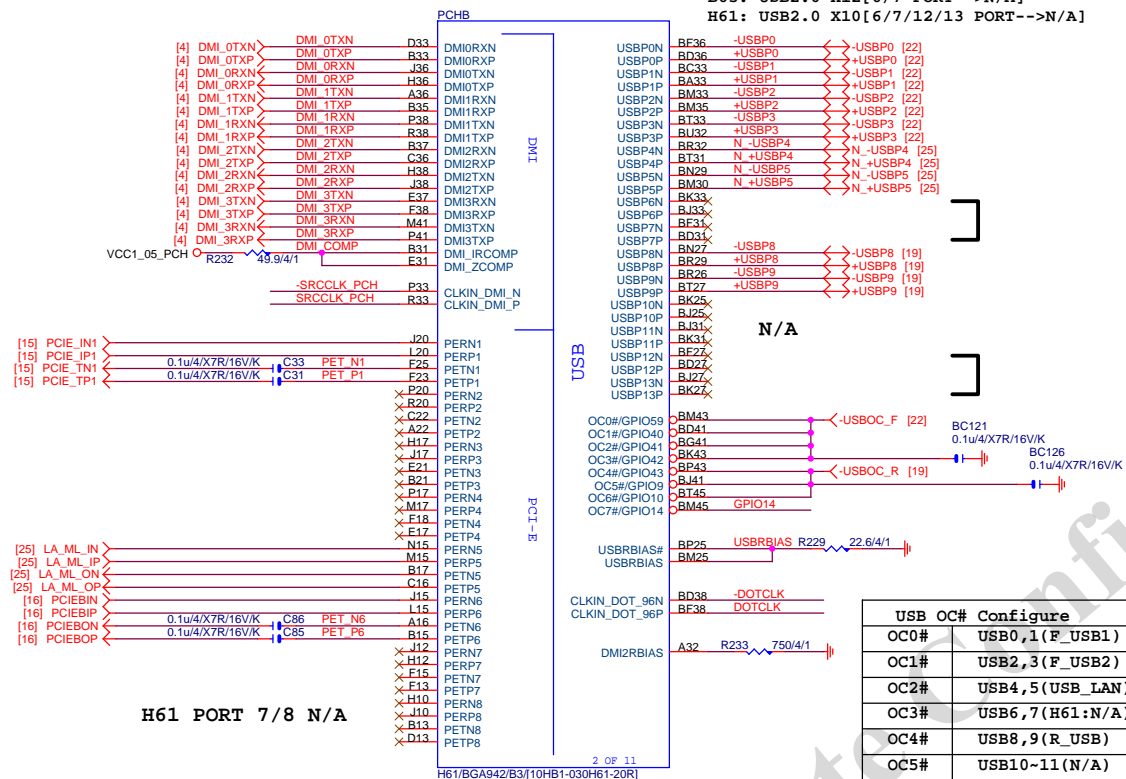
Date:	Tuesday, December 06, 2011	Sheet	6	of	33
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DDRII A

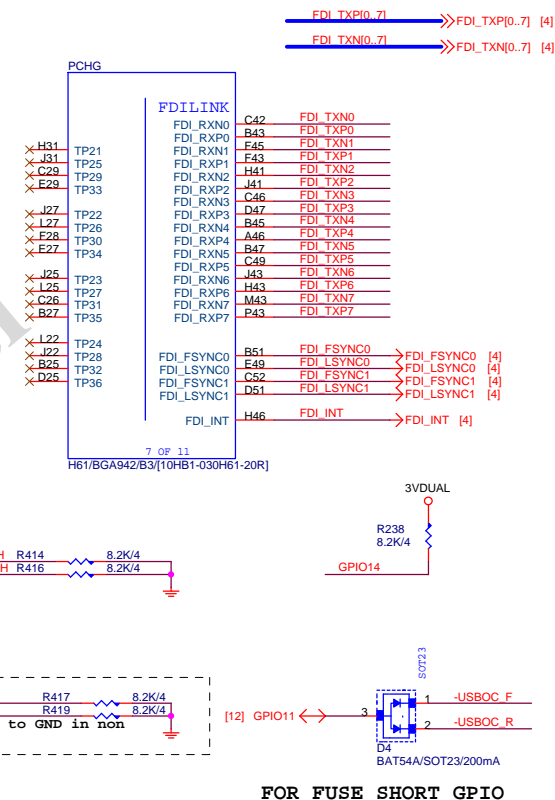
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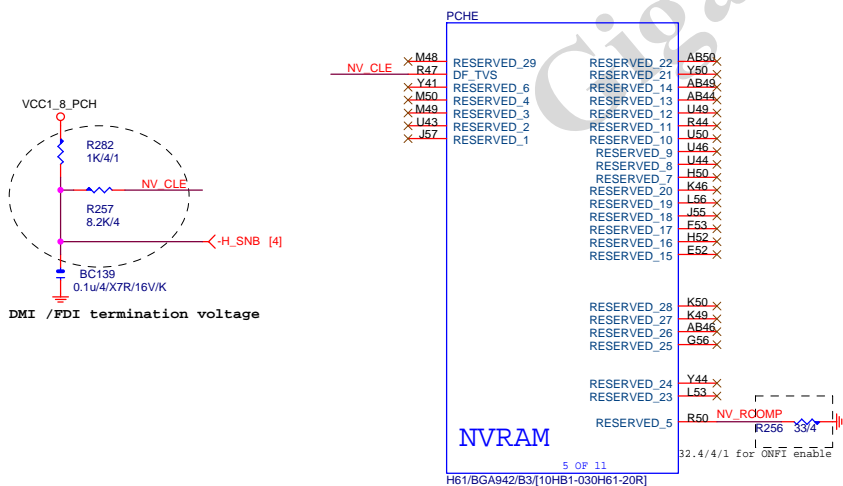
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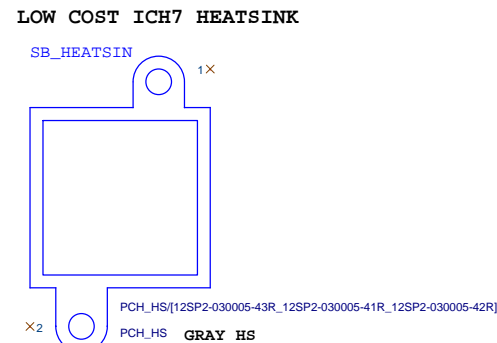
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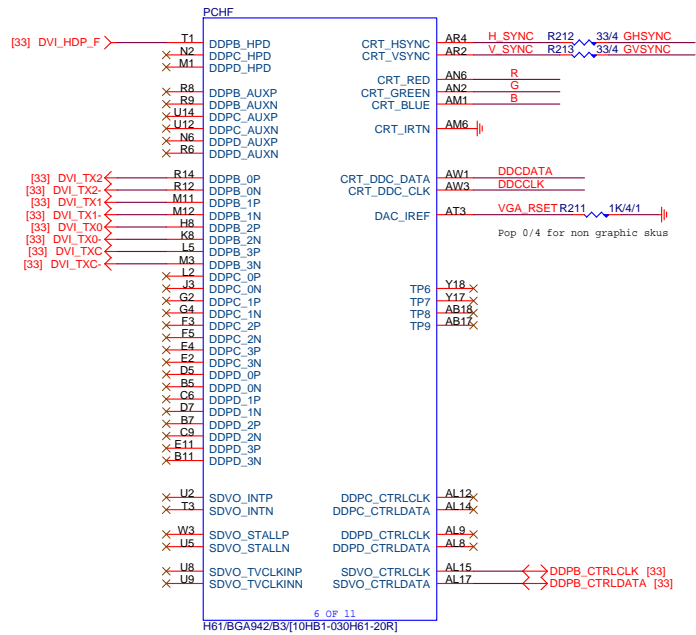
PCH E



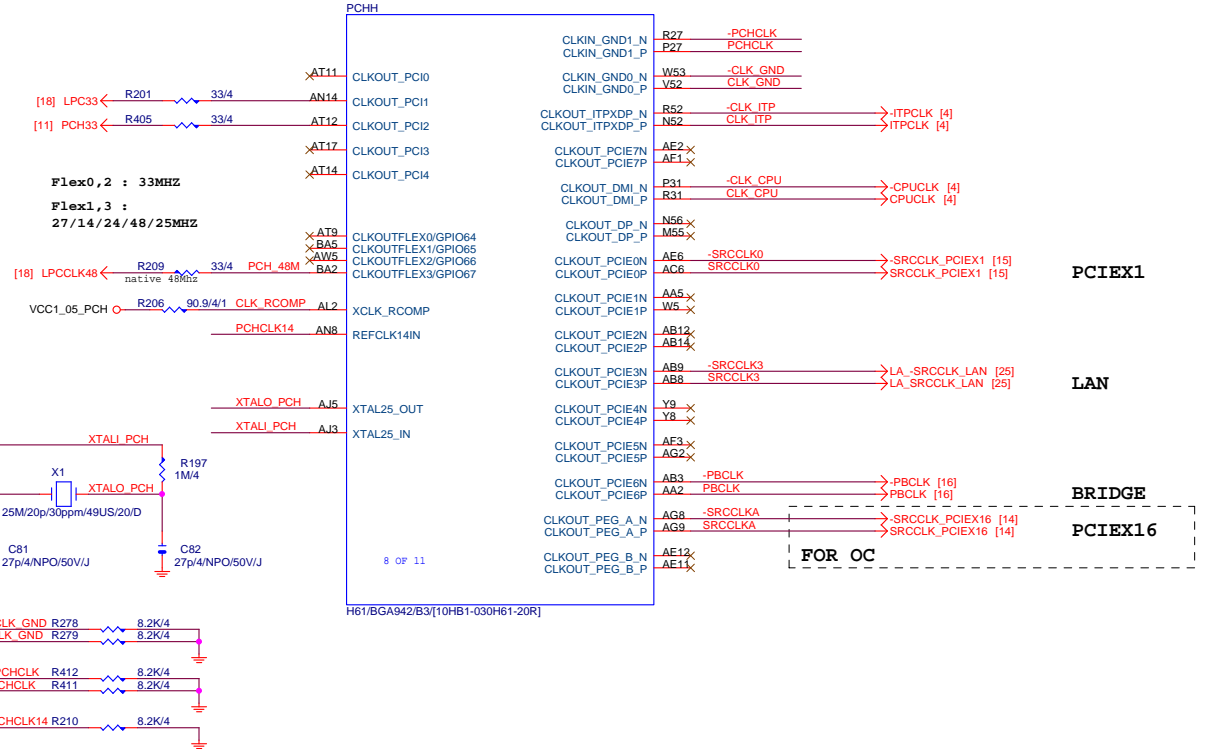
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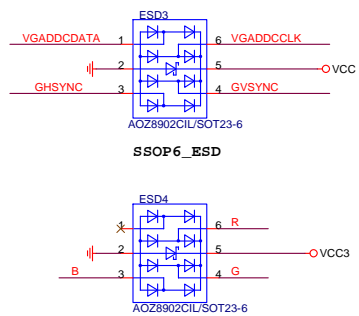
PCH F DISPLAY



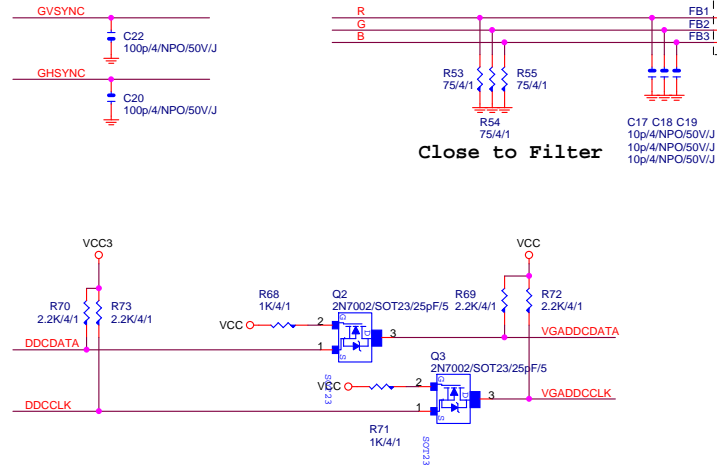
PCH H CLK BUFFER



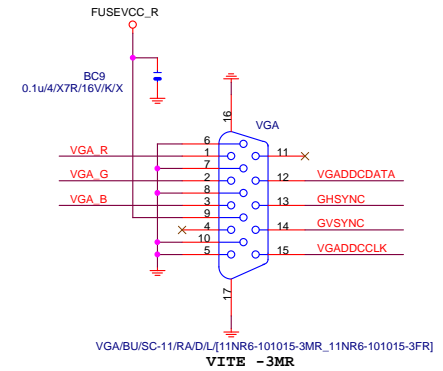
VGA ESD



VGA SIGNAL

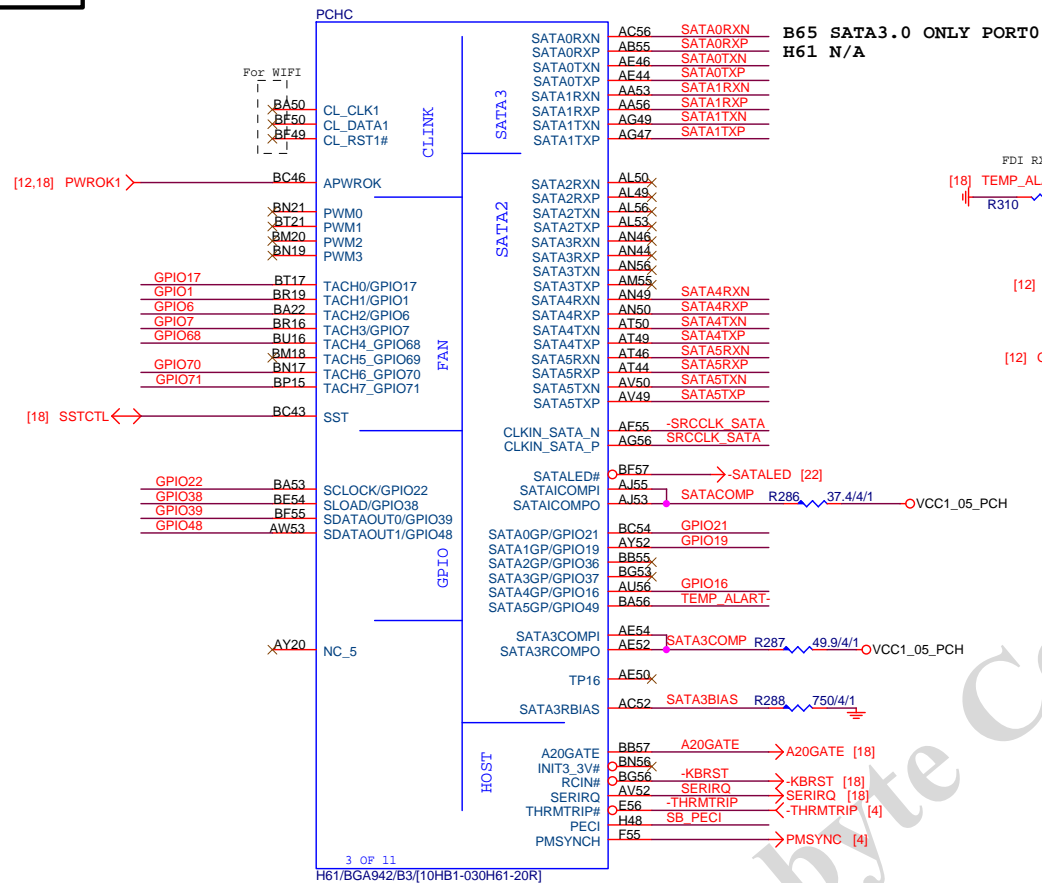


D-SUB

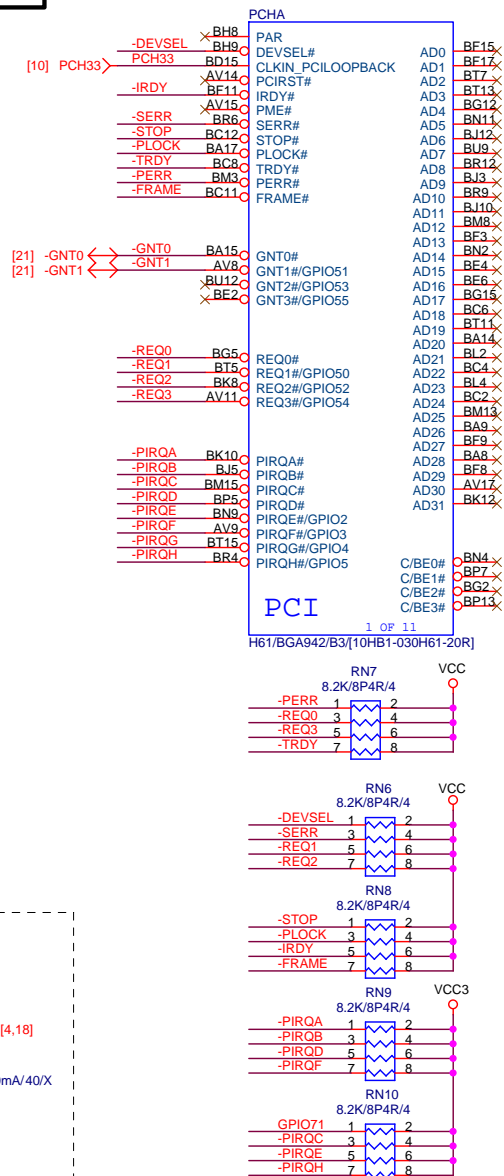


Gigabyte Technology			
PCH DISPLAY ,CLK BUFFER			
GA-H61M-S2PV			
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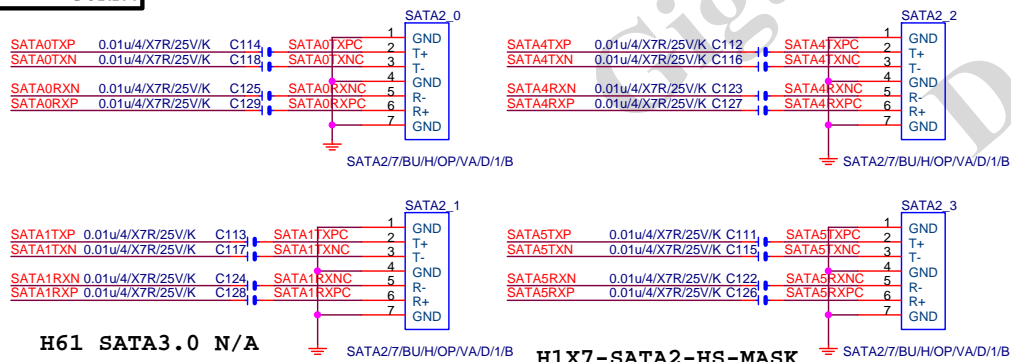
PCH C



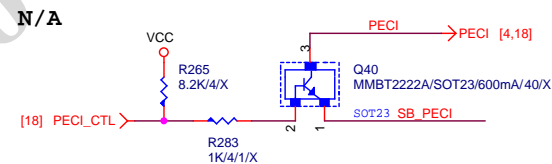
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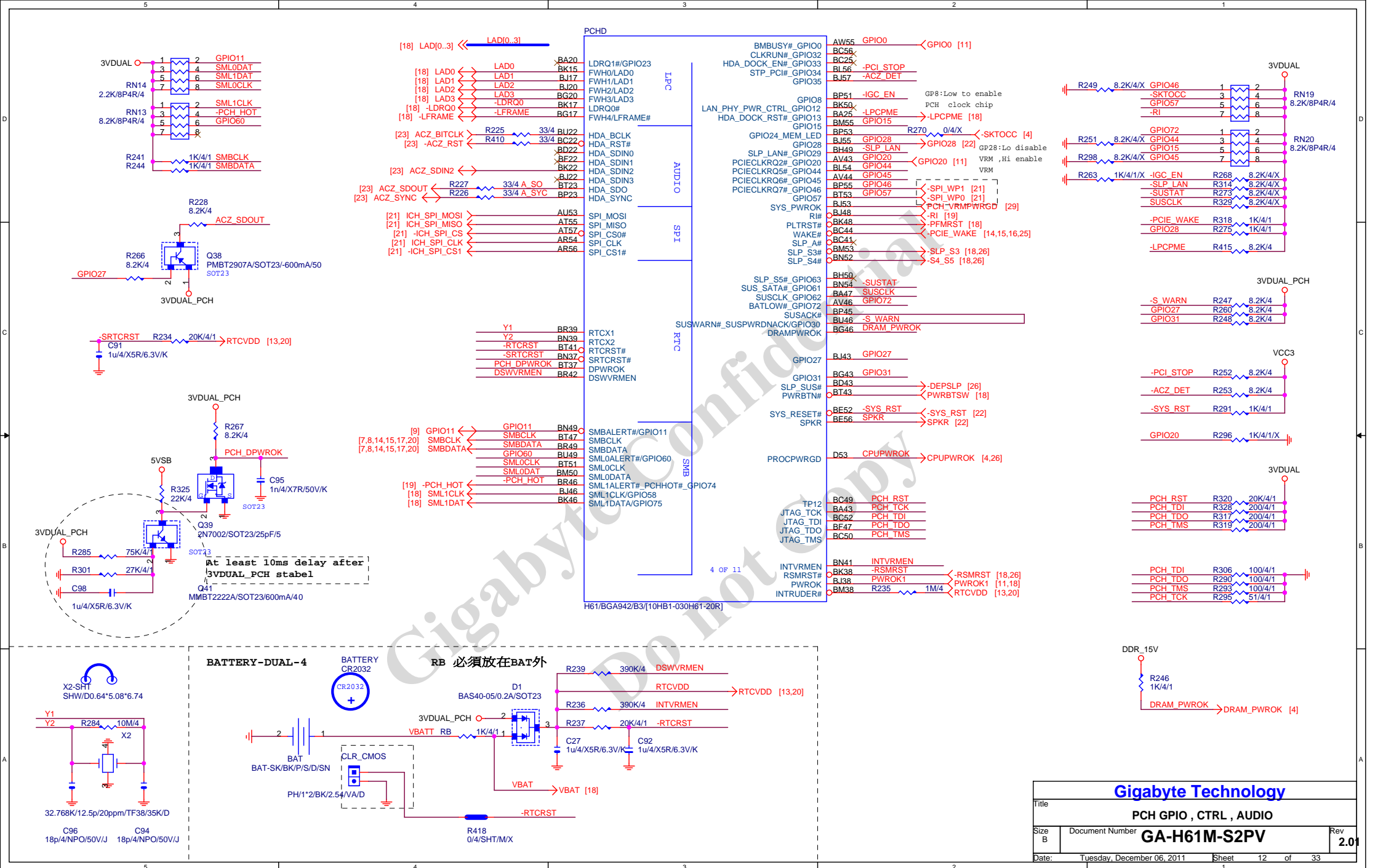


SATA CONN.

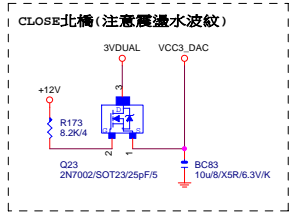
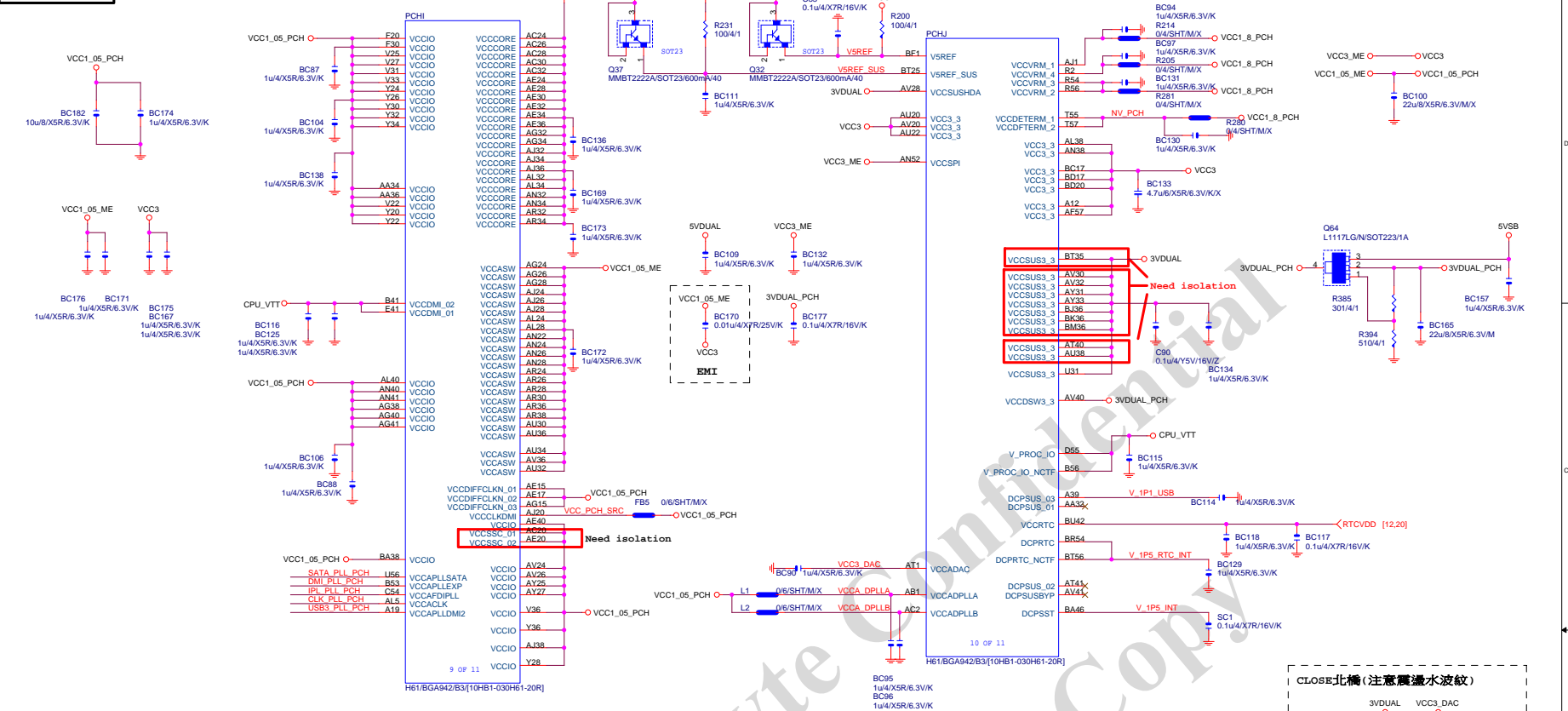


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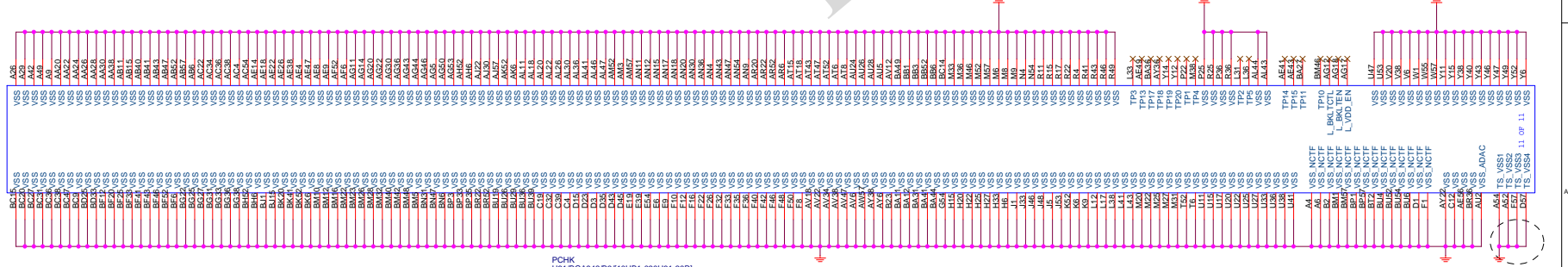




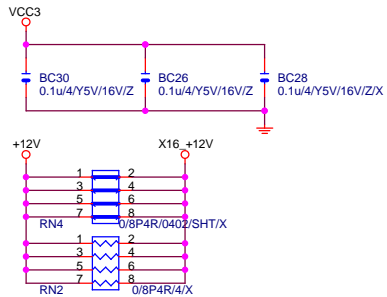
PCH I POWER



PCH K GND

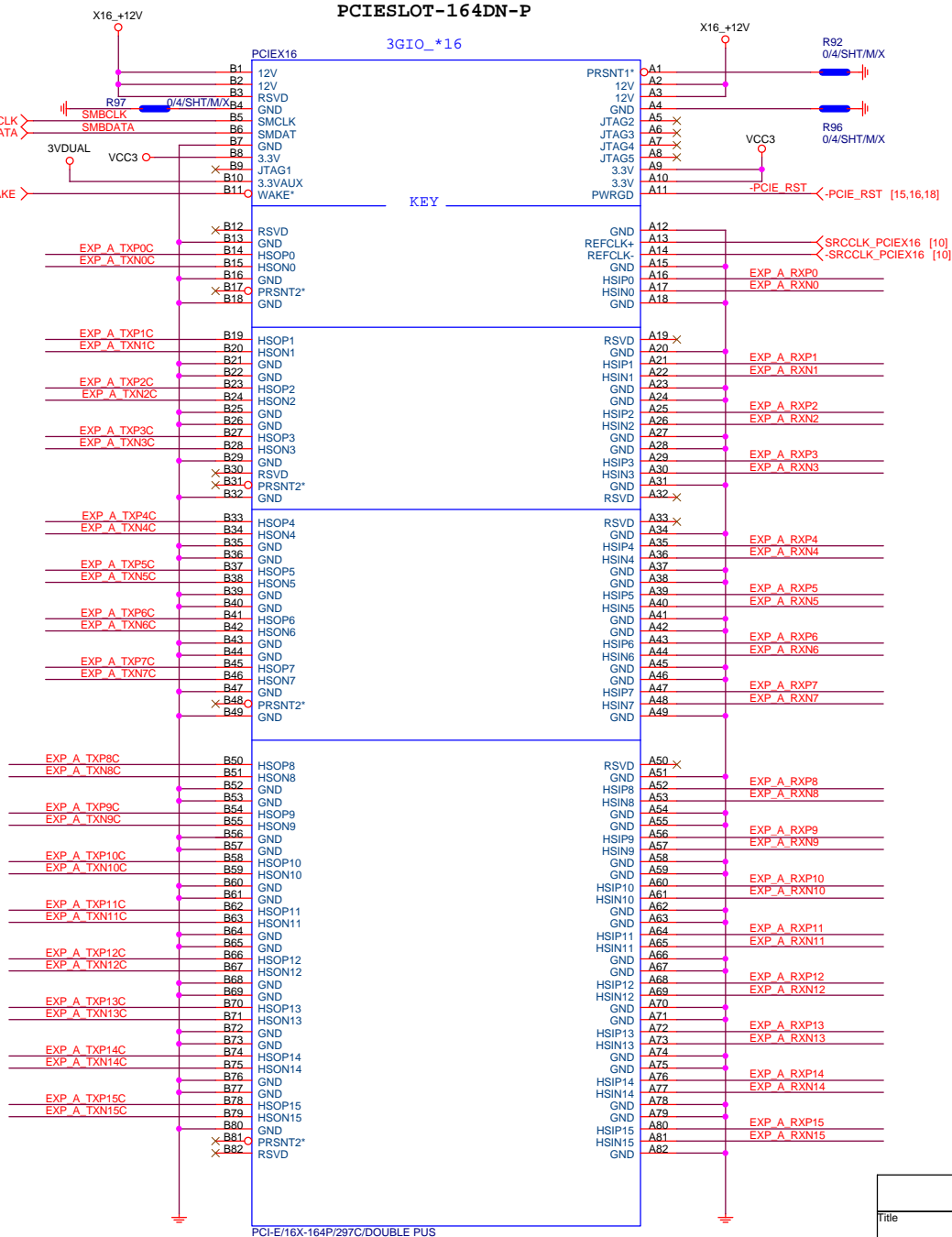


PCIEX16



EXP_A_RXP0..15] >> EXP_A_RXP[0..15] [4]
 EXP_A_RXN0..15] >> EXP_A_RXN[0..15] [4]
 EXP_A_TXP0..15] >> EXP_A_TXP[0..15] [4]
 EXP_A_TXN0..15] >> EXP_A_TXN[0..15] [4]

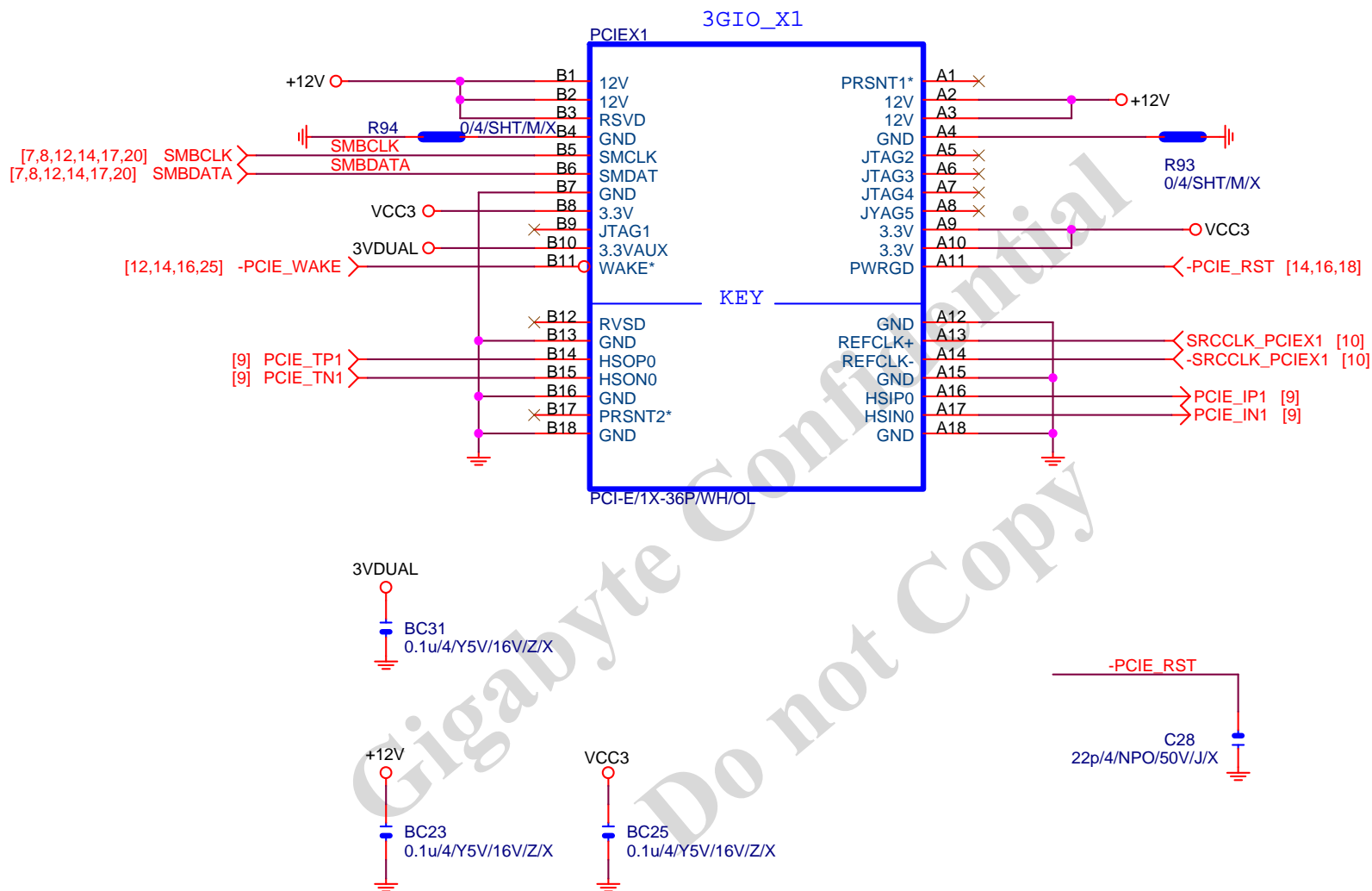
EXP_A_TXP0	C32	0.22u/4/X5R/6.3V/K	EXP_A_TXP0C
EXP_A_TXN0	C30	0.22u/4/X5R/6.3V/K	EXP_A_TXN0C
EXP_A_TXP1	C35	0.22u/4/X5R/6.3V/K	EXP_A_TXP1C
EXP_A_TXN1	C37	0.22u/4/X5R/6.3V/K	EXP_A_TXN1C
EXP_A_TXP2	C39	0.22u/4/X5R/6.3V/K	EXP_A_TXP2C
EXP_A_TXN2	C41	0.22u/4/X5R/6.3V/K	EXP_A_TXN2C
EXP_A_TXP3	C43	0.22u/4/X5R/6.3V/K	EXP_A_TXP3C
EXP_A_TXN3	C45	0.22u/4/X5R/6.3V/K	EXP_A_TXN3C
EXP_A_TXP4	C46	0.22u/4/X5R/6.3V/K	EXP_A_TXP4C
EXP_A_TXN4	C49	0.22u/4/X5R/6.3V/K	EXP_A_TXN4C
EXP_A_TXP5	C50	0.22u/4/X5R/6.3V/K	EXP_A_TXP5C
EXP_A_TXN5	C51	0.22u/4/X5R/6.3V/K	EXP_A_TXN5C
EXP_A_TXP6	C52	0.22u/4/X5R/6.3V/K	EXP_A_TXP6C
EXP_A_TXN6	C54	0.22u/4/X5R/6.3V/K	EXP_A_TXN6C
EXP_A_TXP7	C57	0.22u/4/X5R/6.3V/K	EXP_A_TXP7C
EXP_A_TXN7	C58	0.22u/4/X5R/6.3V/K	EXP_A_TXN7C
EXP_A_TXP8	C60	0.22u/4/X5R/6.3V/K	EXP_A_TXP8C
EXP_A_TXN8	C61	0.22u/4/X5R/6.3V/K	EXP_A_TXN8C
EXP_A_TXP9	C62	0.22u/4/X5R/6.3V/K	EXP_A_TXP9C
EXP_A_TXN9	C63	0.22u/4/X5R/6.3V/K	EXP_A_TXN9C
EXP_A_TXP10	C64	0.22u/4/X5R/6.3V/K	EXP_A_TXP10C
EXP_A_TXN10	C65	0.22u/4/X5R/6.3V/K	EXP_A_TXN10C
EXP_A_TXP11	C66	0.22u/4/X5R/6.3V/K	EXP_A_TXP11C
EXP_A_TXN11	C67	0.22u/4/X5R/6.3V/K	EXP_A_TXN11C
EXP_A_TXP12	C68	0.22u/4/X5R/6.3V/K	EXP_A_TXP12C
EXP_A_TXN12	C70	0.22u/4/X5R/6.3V/K	EXP_A_TXN12C
EXP_A_TXP13	C72	0.22u/4/X5R/6.3V/K	EXP_A_TXP13C
EXP_A_TXN13	C73	0.22u/4/X5R/6.3V/K	EXP_A_TXN13C
EXP_A_TXP14	C74	0.22u/4/X5R/6.3V/K	EXP_A_TXP14C
EXP_A_TXN14	C75	0.22u/4/X5R/6.3V/K	EXP_A_TXN14C
EXP_A_TXP15	C77	0.22u/4/X5R/6.3V/K	EXP_A_TXP15C
EXP_A_TXN15	C78	0.22u/4/X5R/6.3V/K	EXP_A_TXN15C



DOUBLE PUSH LATCH

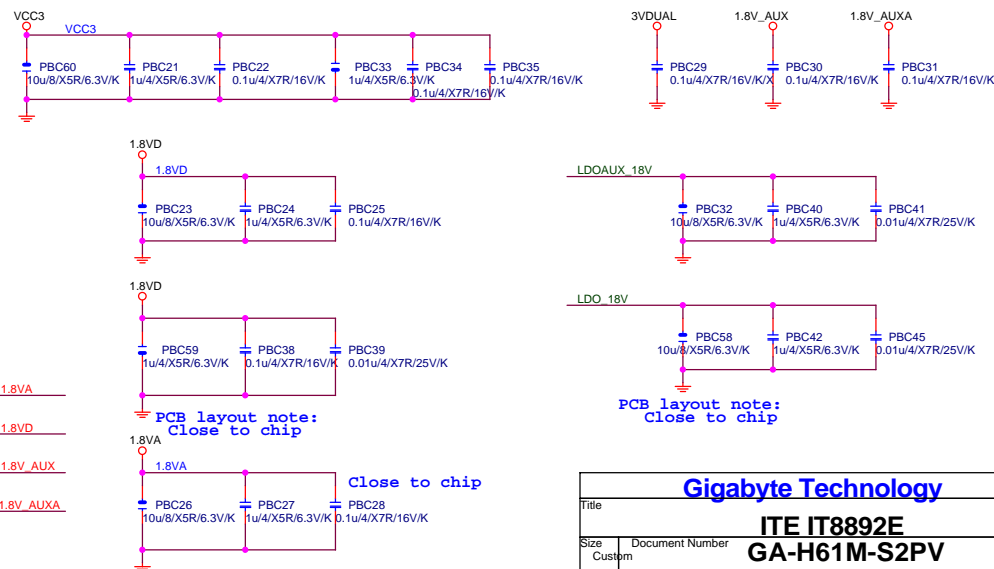
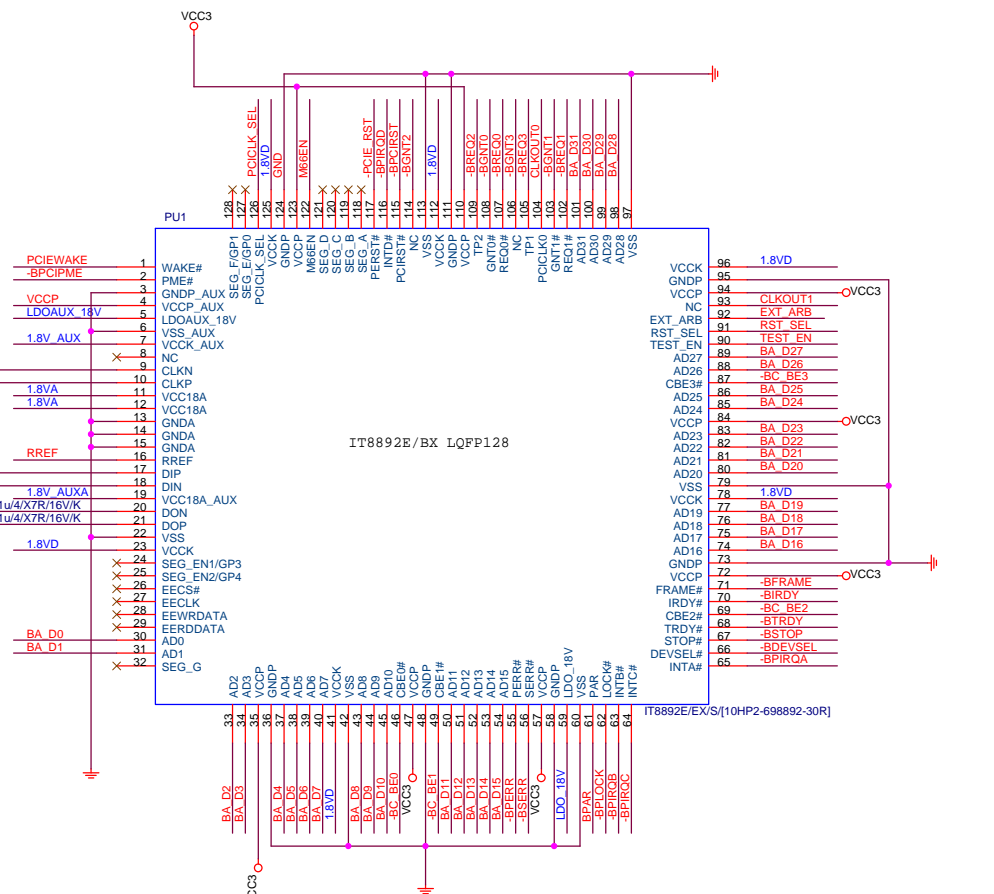
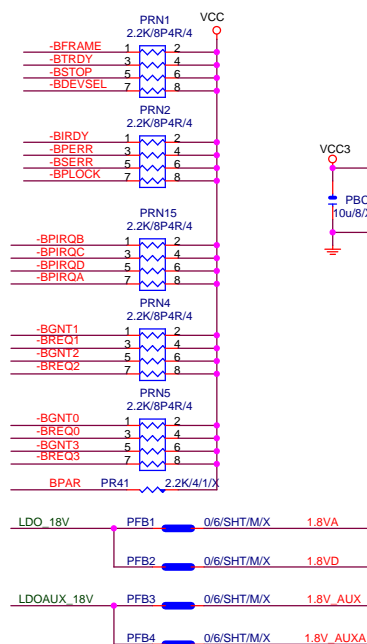
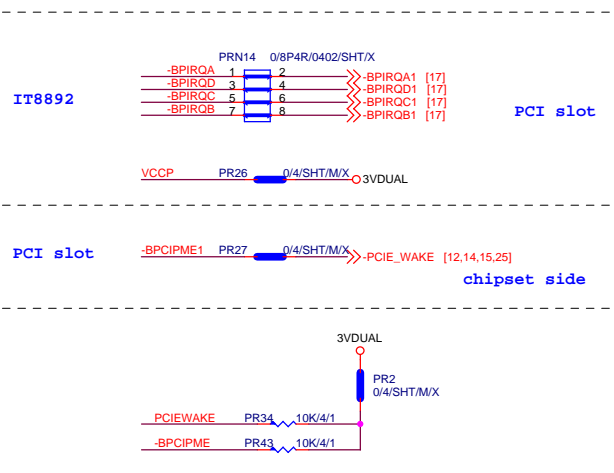
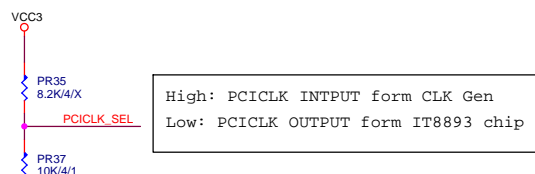
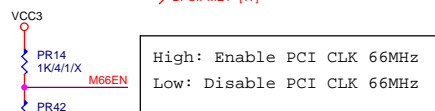
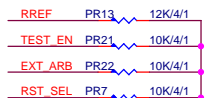
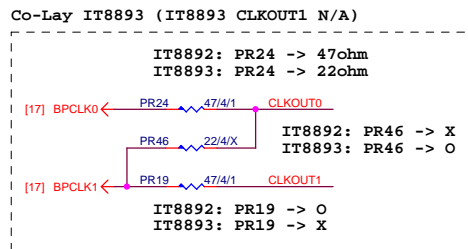
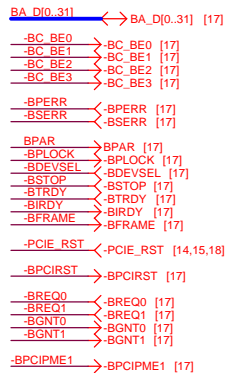
Gigabyte Technology

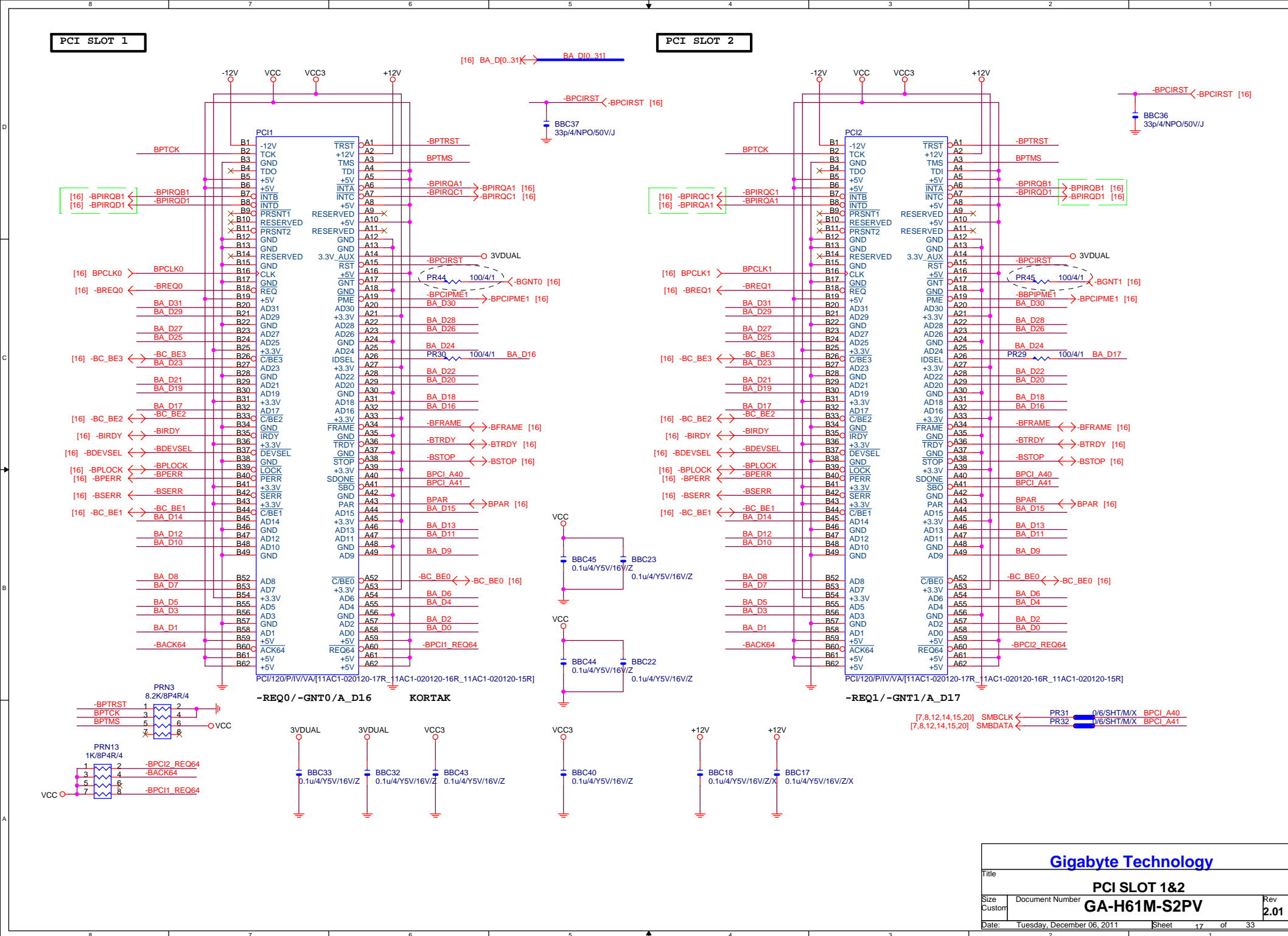
Title			
PCI EXPRESS * 16			
Size			
Custom	Document Number	GA-H61M-S2PV	
Date:			Rev
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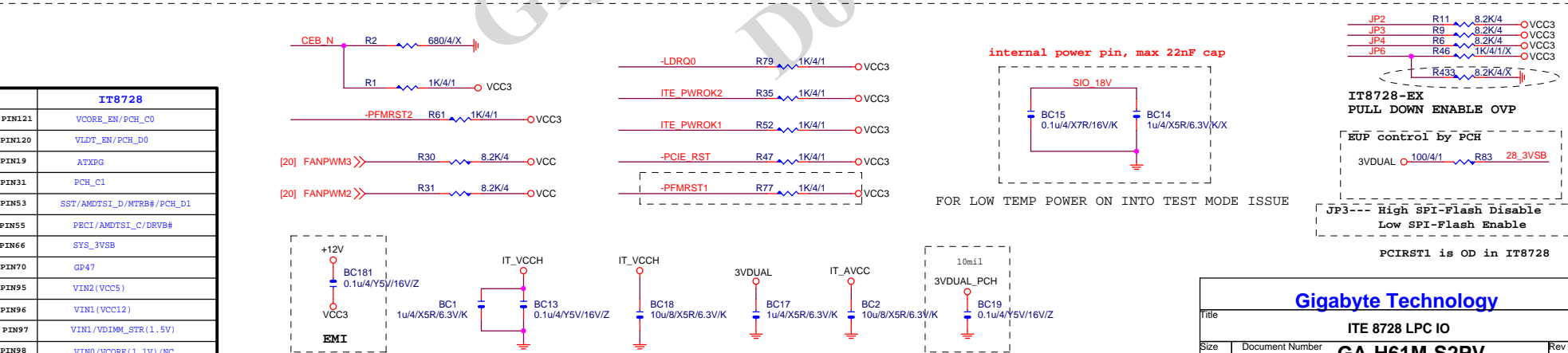
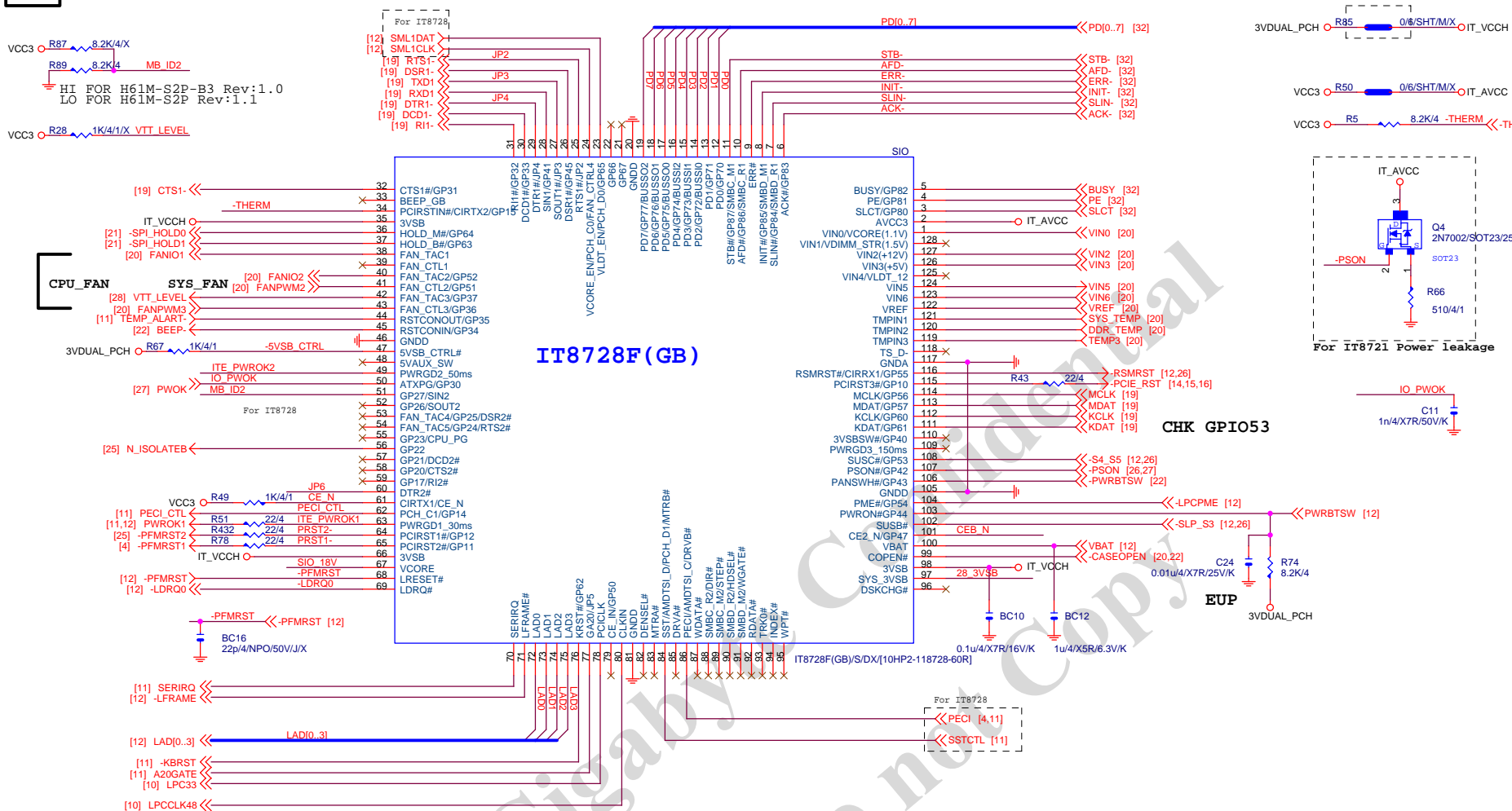


PCIE TO PCI

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

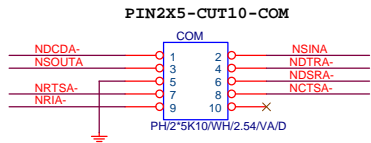
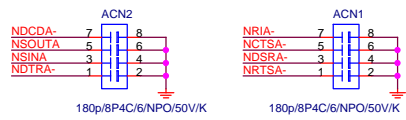
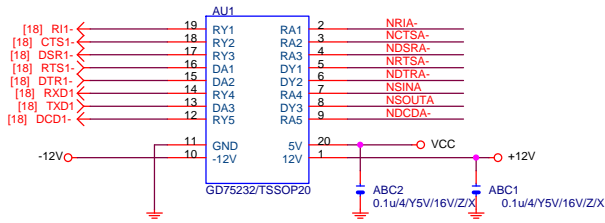




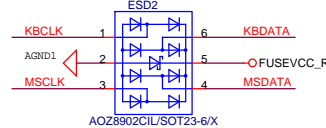
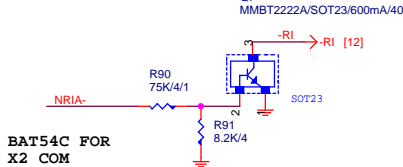


	IT8728
PIN121	VCORE_EN/PCH_C0
PIN120	VLDT_EN/PCH_D0
PIN19	ATXP0
PIN31	PCH_C1
PIN53	SST/AMDTSI_D/MTRB#/PCH_D1
PIN55	PBCI/AMDTSI_C/DRV#
PIN66	SYS_3VSB
PIN70	GP47
PIN95	VIN2(VCC5)
PIN96	VIN1(VCC12)
PIN97	VIN1/VDIMM_STR(1.5V)
PIN98	VIN0/VCORE(1.1V)/NC

COM

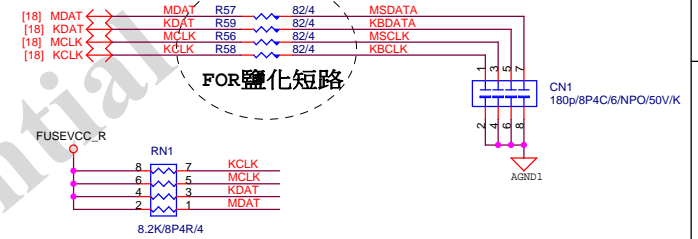
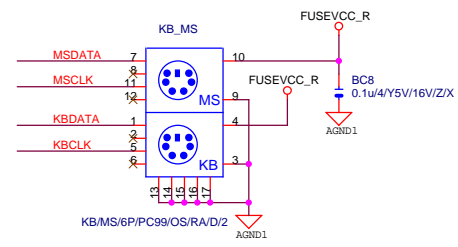


COM RI



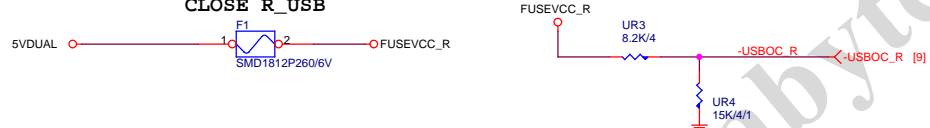
CLOSE KB_MS

KB/MS

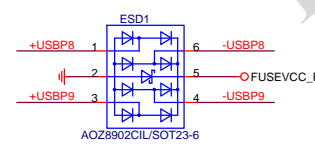
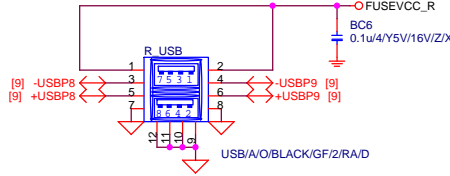


=PROHOT

CLOSE R_USB

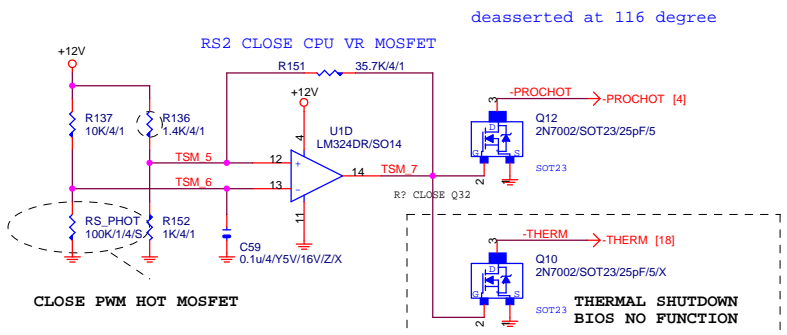
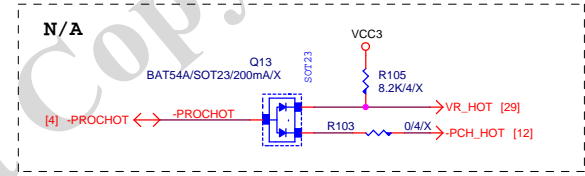


R_USB1



CLOSE R_USB1

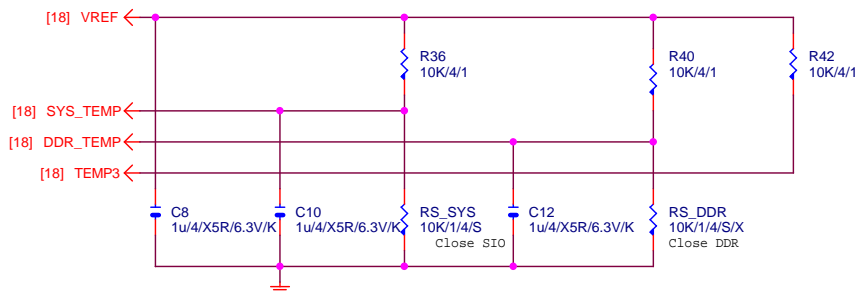
N/A



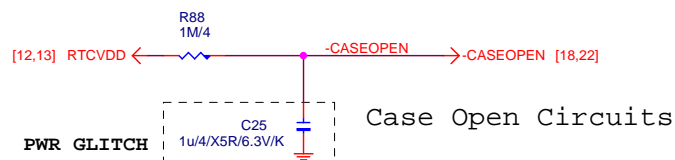
Gigabyte Technology

Title			
COM,-RI,KB_USB,USB_ESATA,-PROCHOT			
Size	Document Number	Rev	
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TEMP H/W MONITOR

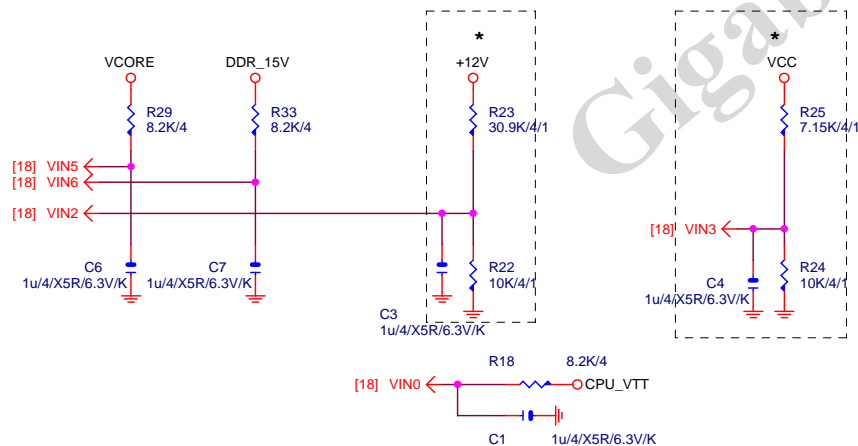


CASE OPEN

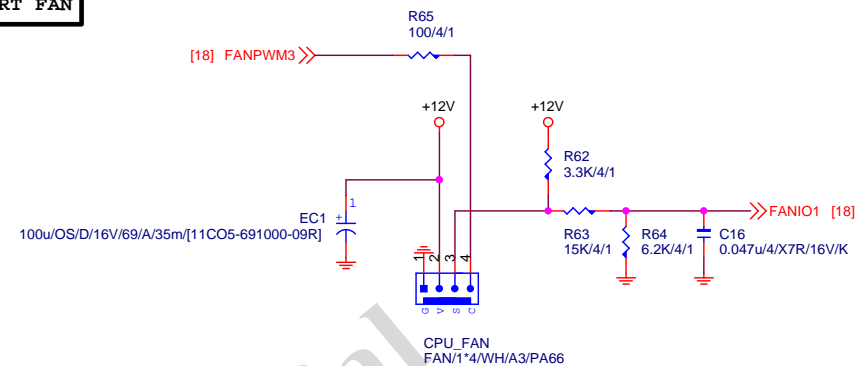


VOLTAGE-- H/W MONITOR

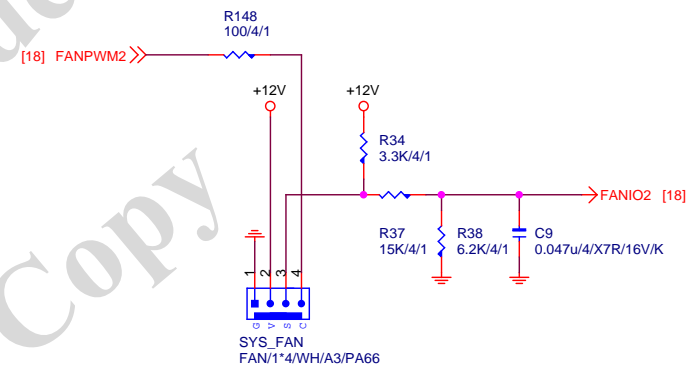
IT8728/EX VIN2/VIN3-->2V



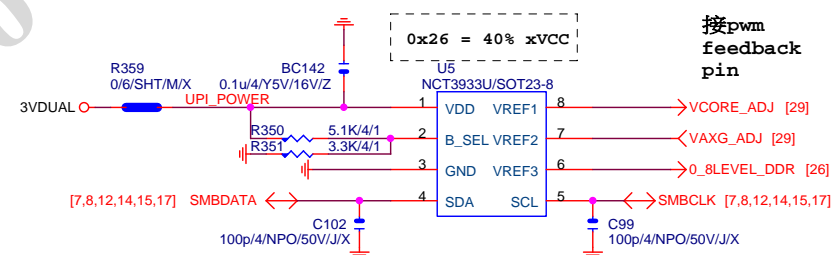
CPU SMART FAN



SYS SMART FAN



O.V.



Gigabyte Technology

Title		HWM,FAN CTRL,OV	
Size	Custom	Document Number	GA-H61M-S2PV
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		Rev	2.01

[illegible]

H61使用32M BIOS

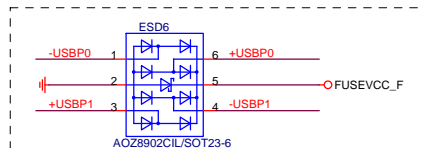
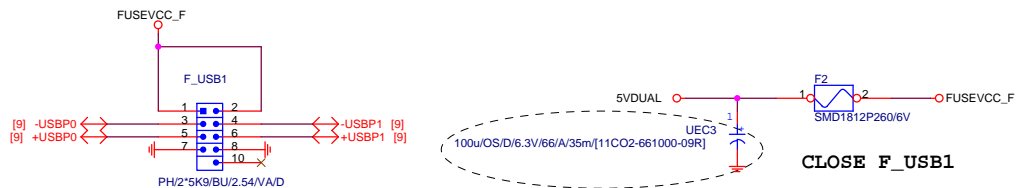
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

```

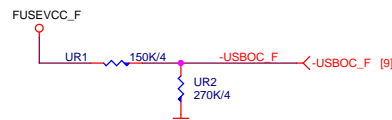
1 means floating
0 means PD 1K

```

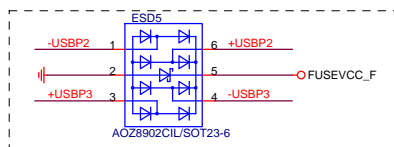
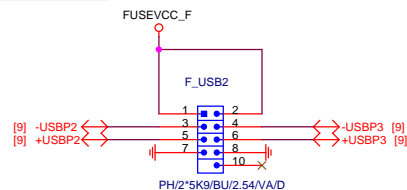
FRONT USB1



Close to connector

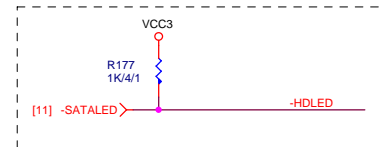


FRONT USB2

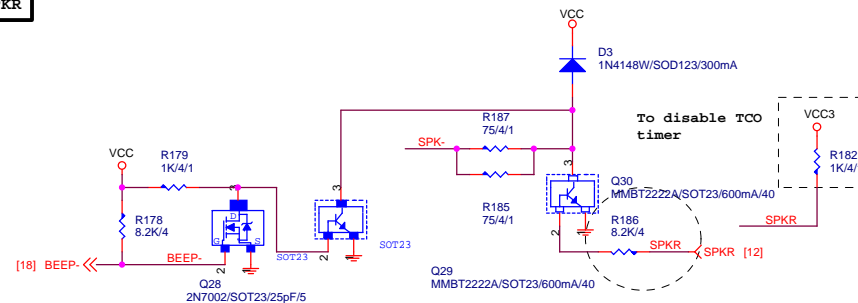


Close to connector

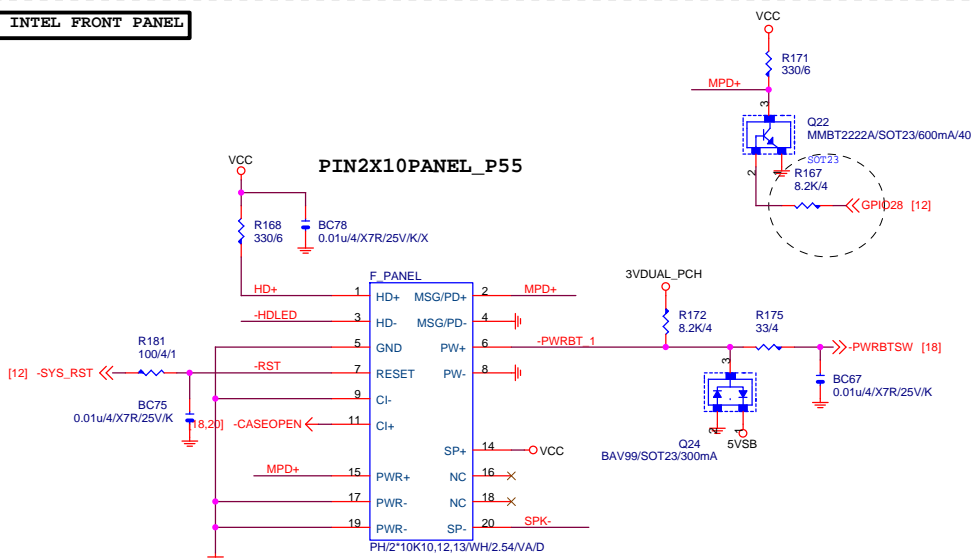
SATA LED



SPKR



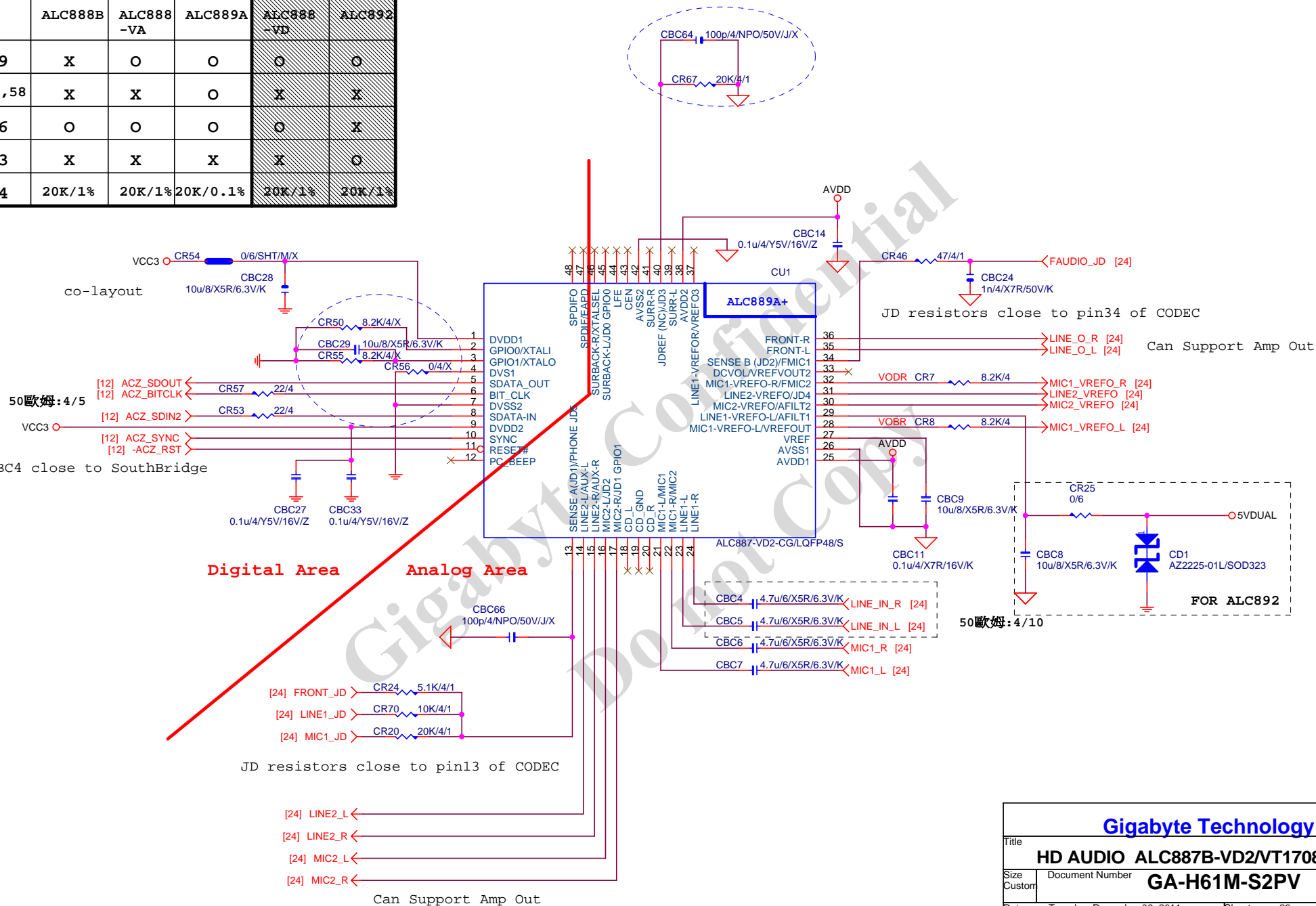
INTEL FRONT PANEL



Gigabyte Technology

Title			
FP,F_USB,USB PWR,SPKR,SATA LED			
Size	Document Number	Rev	
Custom	GA-H61M-S2PV	2.01	
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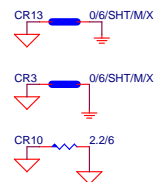
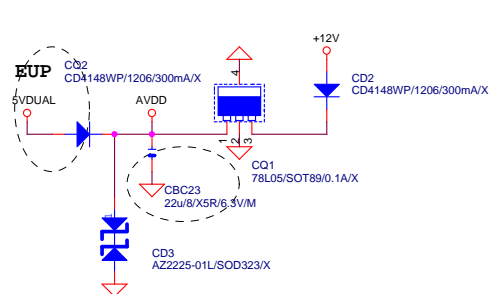
	ALC888B	ALC888-VA	ALC889A	ALC888-VD	ALC892
CR59	X	O	O	O	O
CR53,58	X	X	O	X	X
CR56	O	O	O	O	X
CR63	X	X	X	X	O
CR34	20K/1%	20K/1%	20K/0.1%	20K/1%	20K/1%



Gigabyte Technology

Title	HD AUDIO ALC887B-VD2/VT1708S/VT2021		
Size	Document Number	GA-H61M-S2PV	
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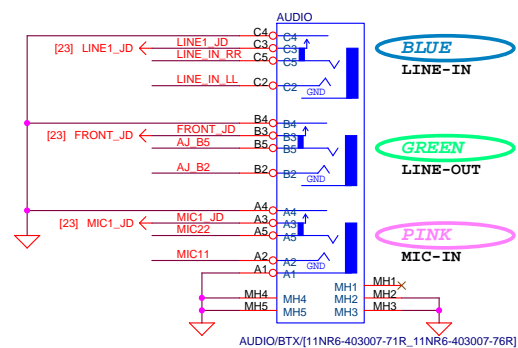
CODEC POWER/EMI PAD



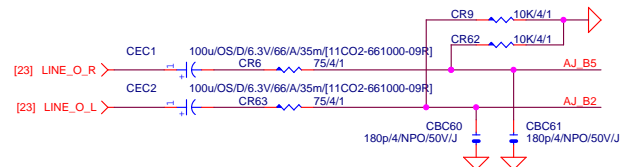
SPDIF

N/A

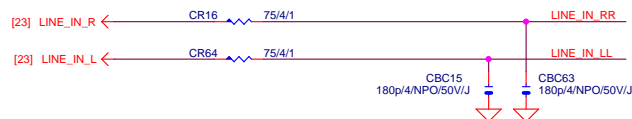
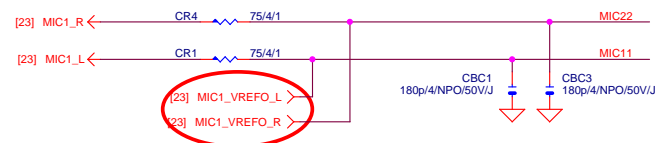
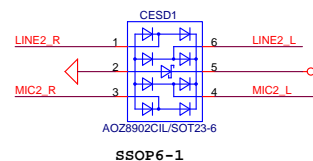
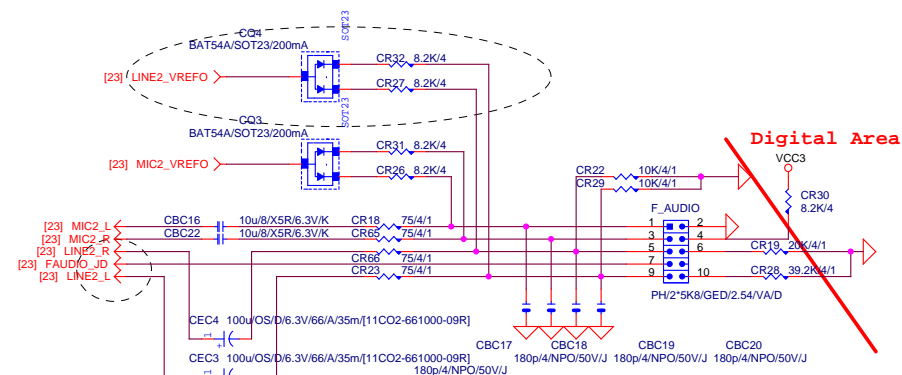
AZALIA JACK



LINE-OUT



LINE-IN

**MIC-IN****F_AUDIO ESI****AZALIA FRONT PANEL**

Gigabyte Technology

AUDIO JACK

GA-H61M-S2PV

Rev
2.04

Title

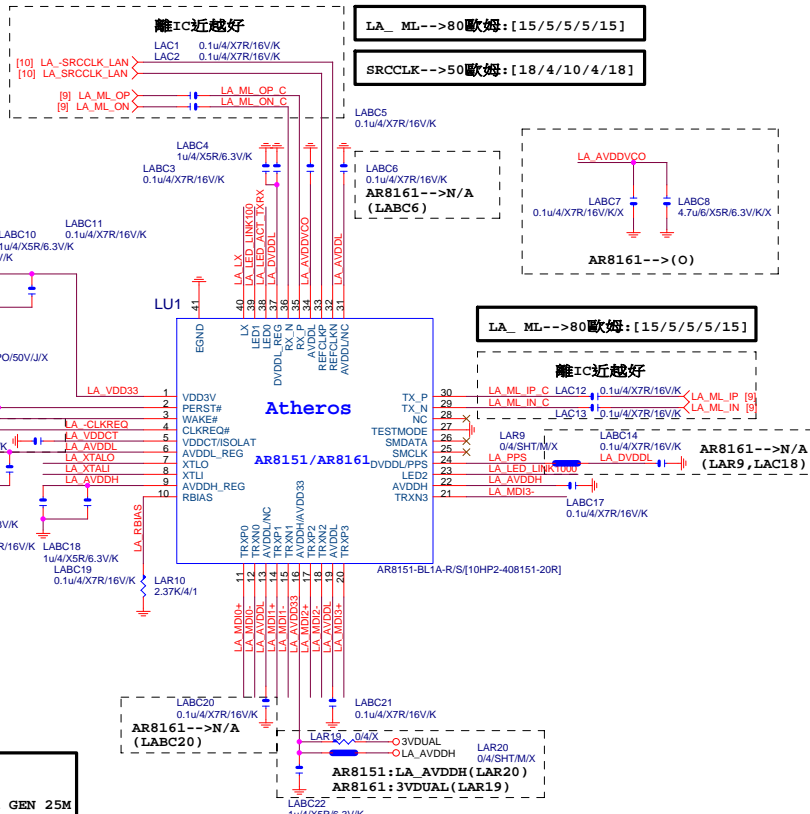
Size	
Custom	

Date: Tuesday, December 06, 2011

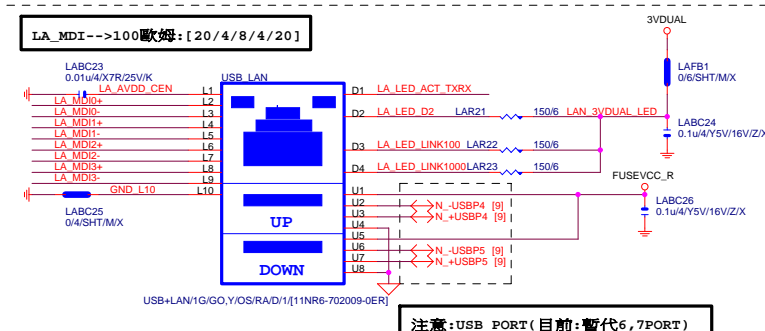
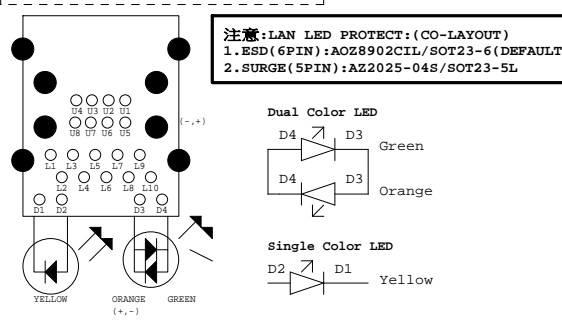
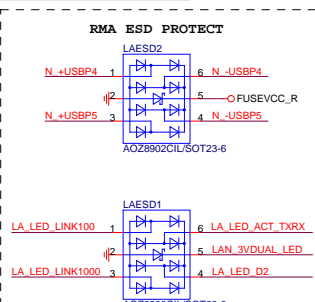
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2.01

LAN:AR8151/AR8161



USB_LAN CONNECTOR



注意:USB PORT(目前:暫代6,7PORT)

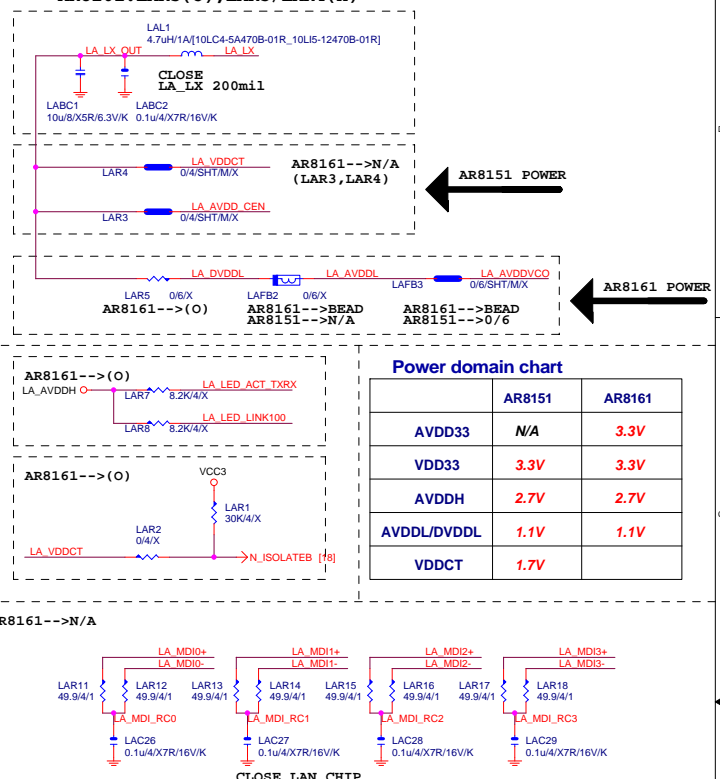
料號	規格	廠商
11NR6-702009-0ER	1G LAN (12core)	UDE
11NR6-702009-91R	1G LAN(8 core)	FOXCONN
11NR6-702009-92R	1G LAN(8 core)	UDE
11NR6-702009-11R	1G LAN(12core/RED)	UDE
11NR6-702009-12R	1G LAN(8 core/RED)	FOXCONN

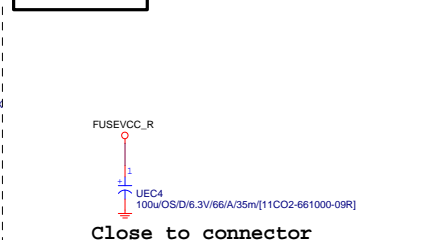
USB_LAN BOM區分:

1. (紅色/12CORE/三倍):USB+LAN/1G/GO,Y/OS/RA/D/1/RED
2. (黑色/12CORE):USB+LAN/1G/GO,Y/OS/RA/D/1
3. (黑色/8CORE):USB+LAN/1G/GO,Y/OS/RA/D/8C

LAN POWER

NEW DESIGN ONLY FOR INTERNAL SWR
AR8151: LAR3(O), LAR5(X)
AR8161: LAR5(O), LAR3/LAR4(X)



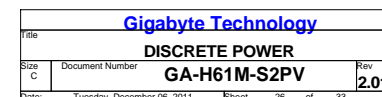


PS:視EMI需求

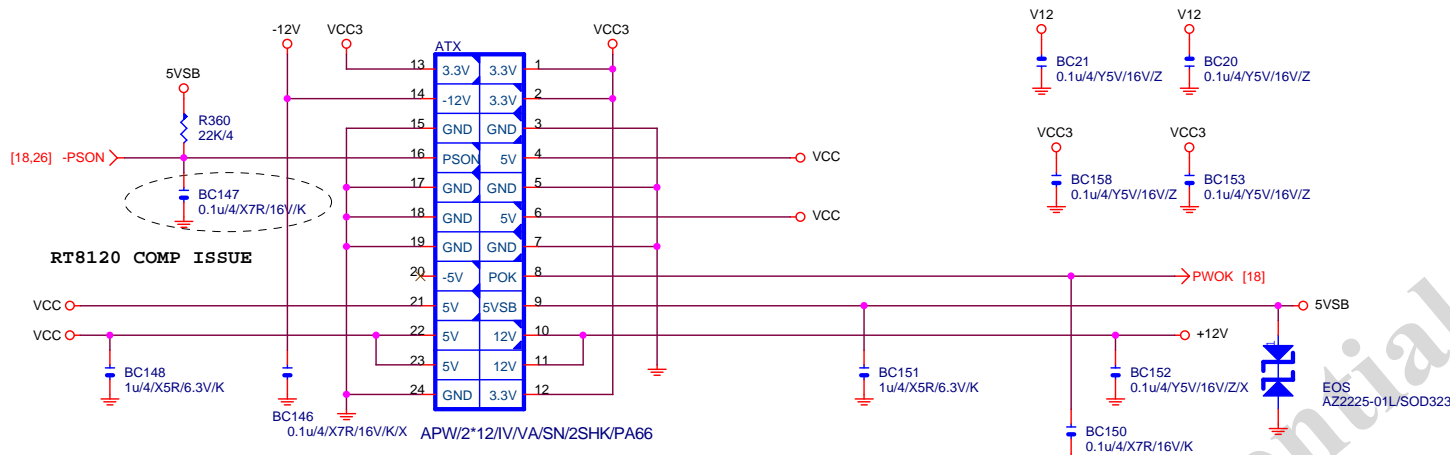


	AR8151	AR8161
AVDD33	N/A	3.3V
VDD33	3.3V	3.3V
AVDDH	2.7V	2.7V
AVDDL/DVDDL	1.1V	1.1V
VDDCT	1.7V	

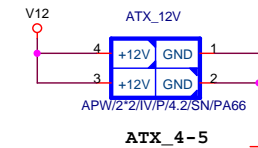
Gigabyte Technology			
Title: ARTHEROS AR8151/AR8161			
Size Custom	Document Number	GA-H61M-S2PV	Rev 2.01
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ATXX24 POWER CONNECTOR

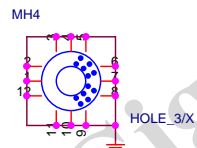
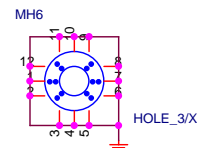
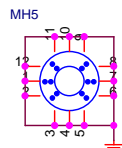
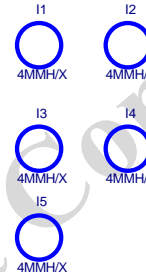
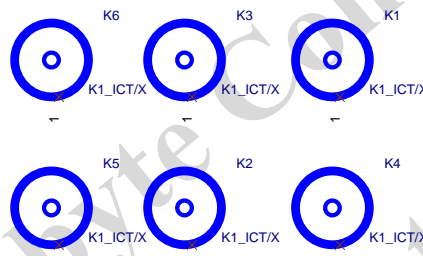
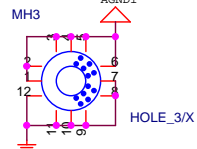
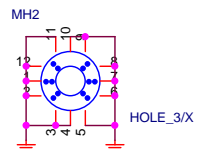
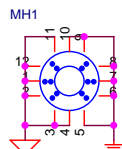
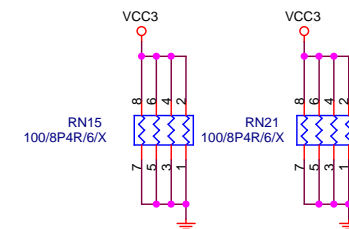


ATXX4 POWER CONNECTOR



MIN. LOAD

FIX PWR MINMUN LOAD



To prevent the 5VSB under loading when boot

Gigabyte Technology

ATX CONNECTOR

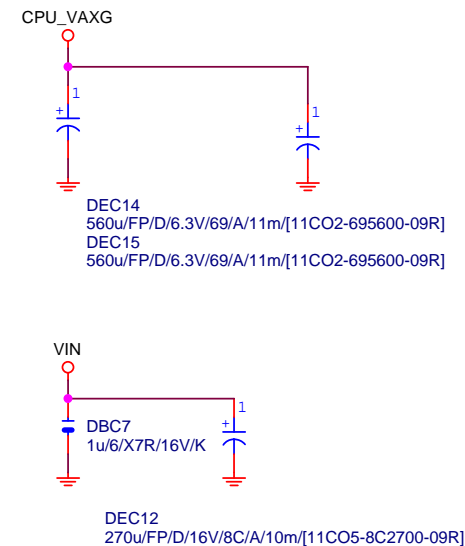
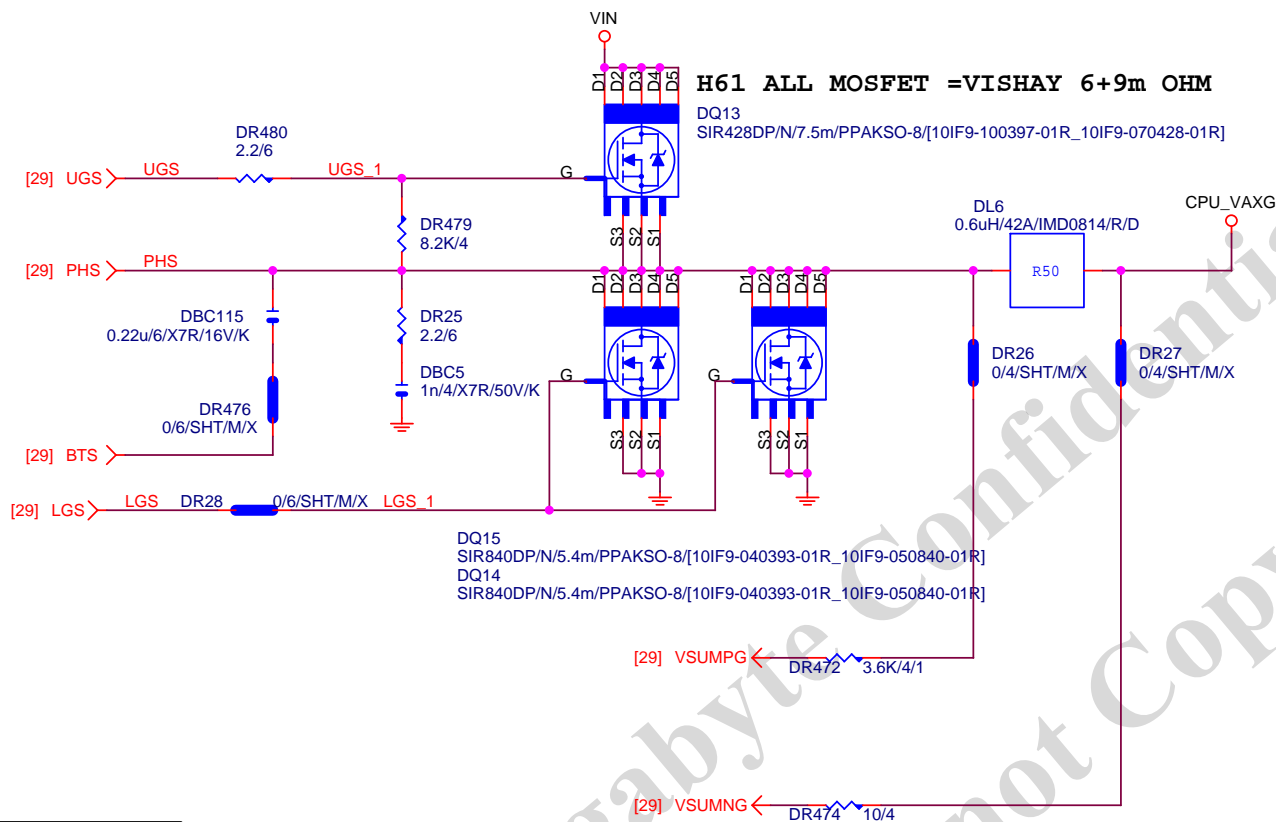
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VAXG

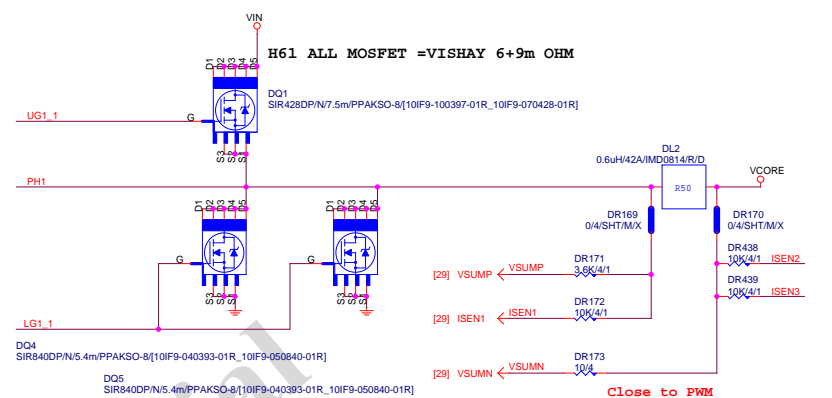
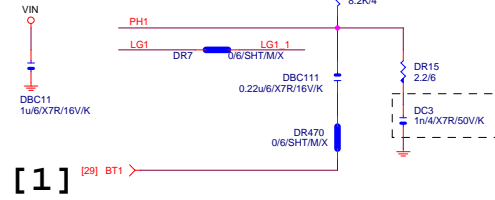


MOS HEATSINK

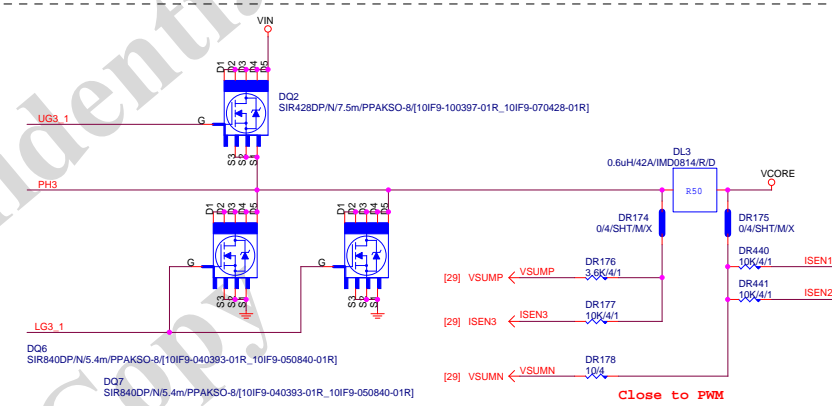
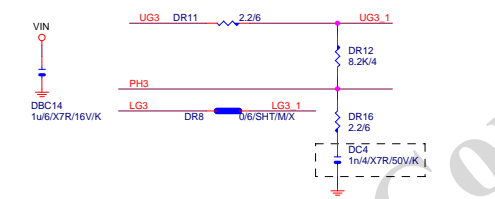
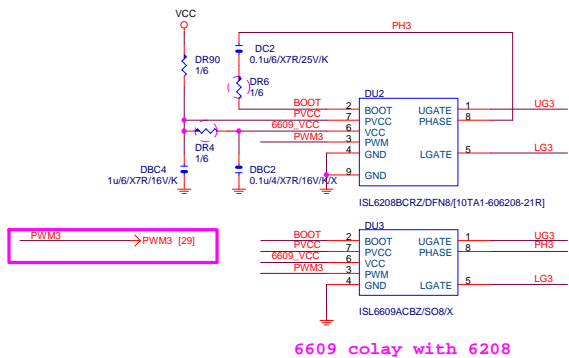
Gigabyte Technology

Title			
CPU CORE VR-2			
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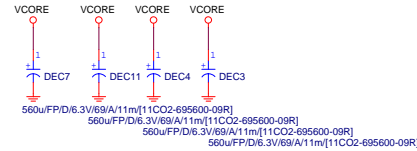
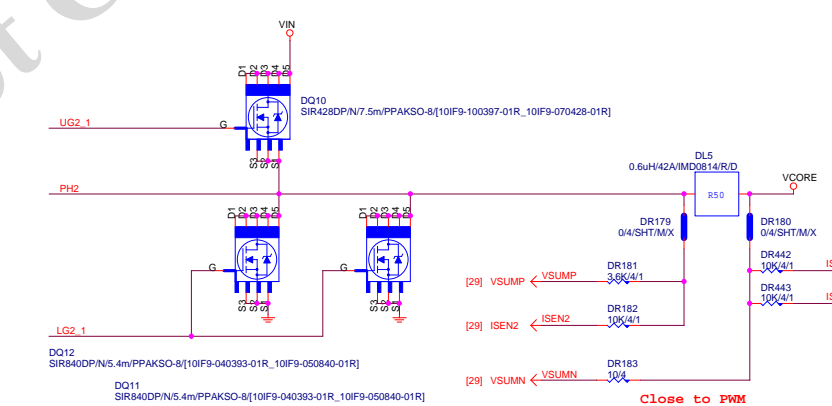
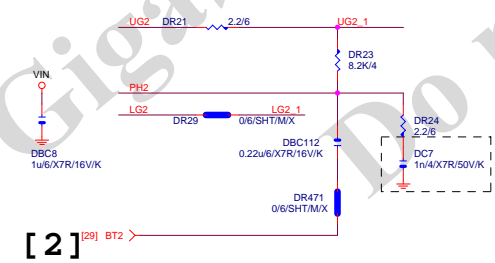
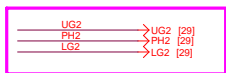
PHASE 1



PHASE 3



PHASE 2



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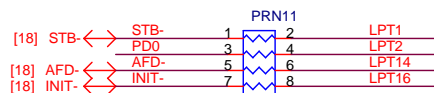
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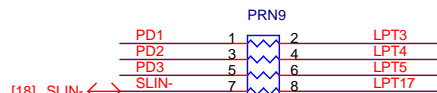
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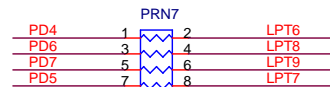
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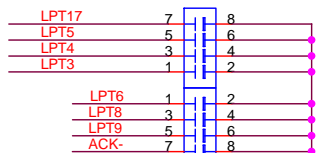
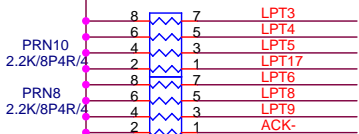
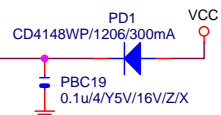
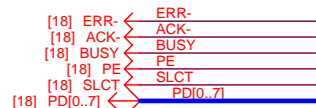
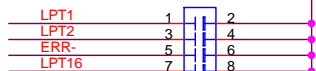
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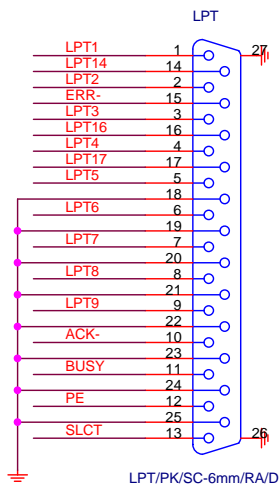


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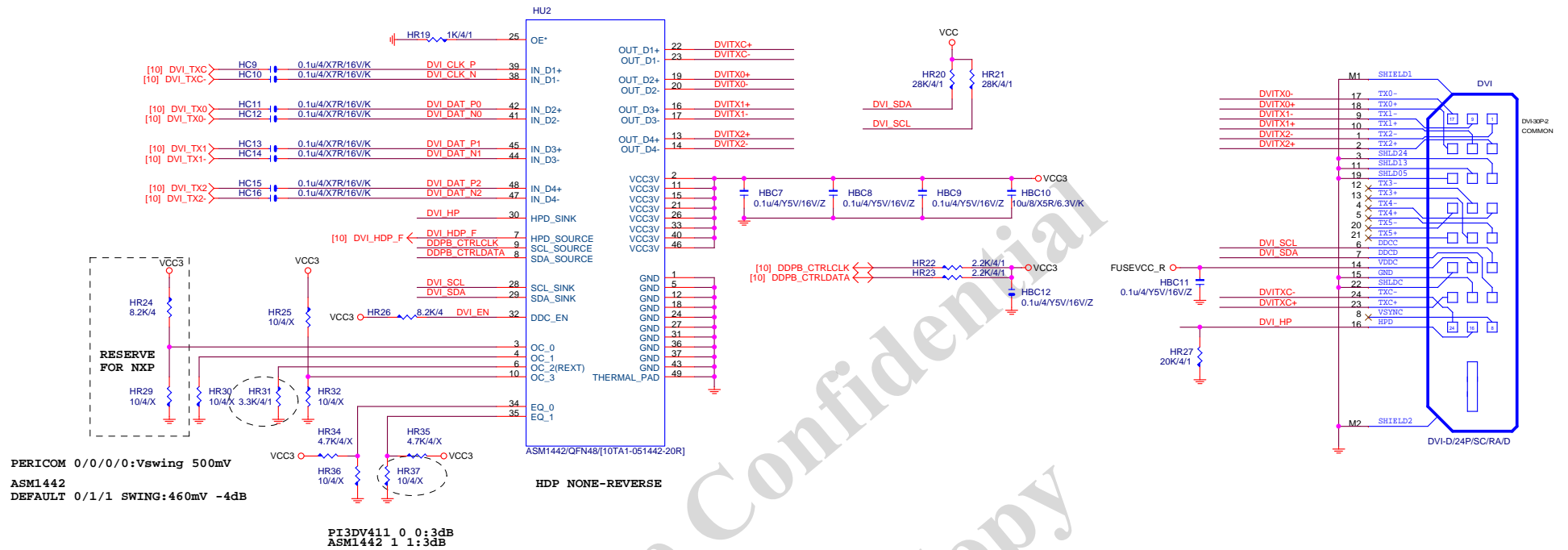
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