

Model Name: GA-H61M-S2P

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	REALTEK RTL8111F-VL
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

Gigabyte Technology			
Title			
Cover Sheet			
Size	Document Number	Rev	
Custom	GA-H61M-S2P	2.11	
Date:	Wednesday, July 25, 2012	Sheet	1 of 32

Revision 2.11

Component value change history

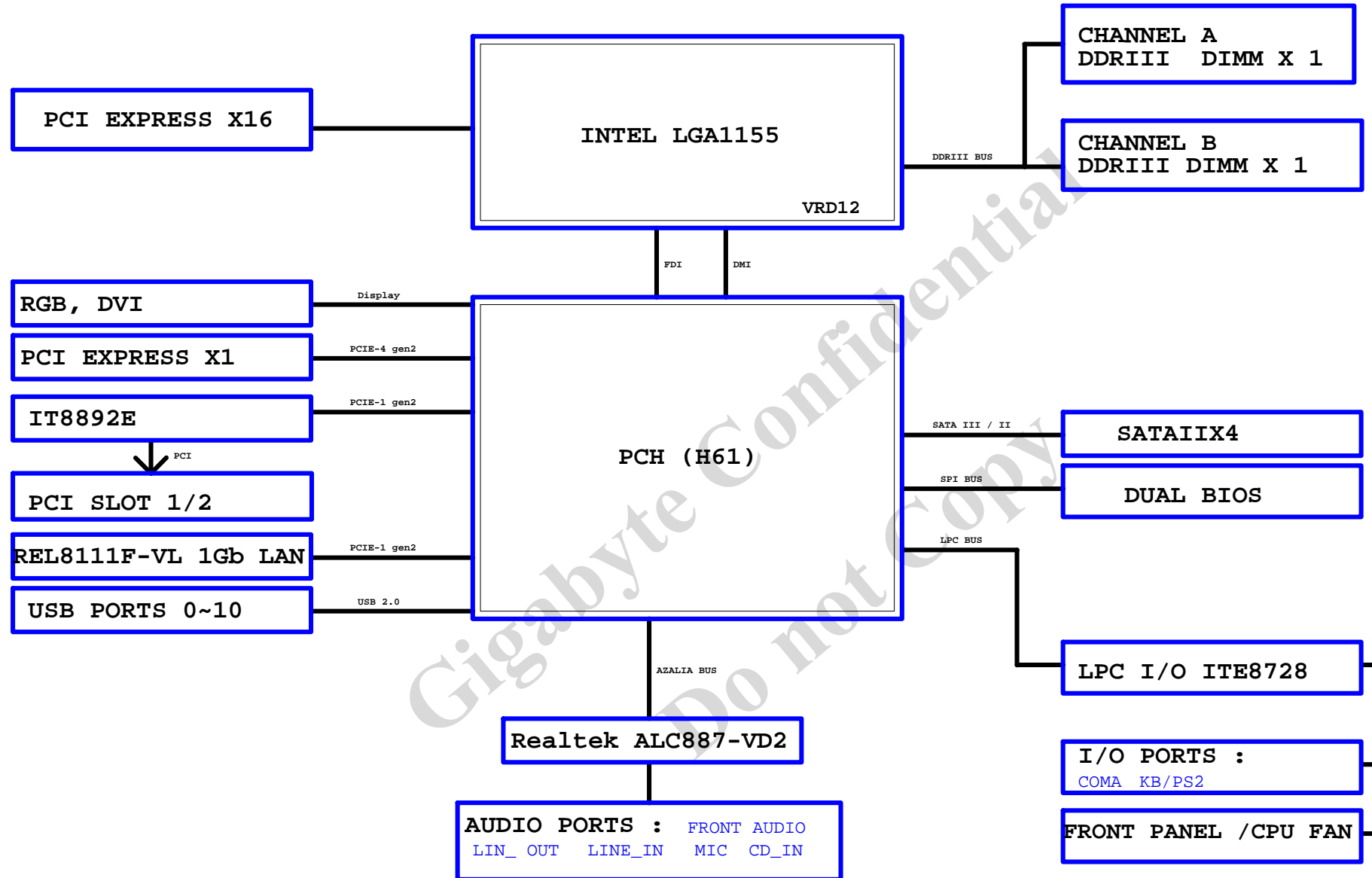
2012/07/10

[illegible]

Circuit or PCB layout change

[illegible]

BLOCK DIAGRAM



CPUA

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MAAA3	AW23	SA_MA[3]			
MAAA4	AV23	SA_MA[3]	SA_DQ[0]	AJ3	MDA0
MAAA5	AT24	SA_MA[4]	SA_DQ[1]	AJ4	MDA1
MAAA6	AT23	SA_MA[5]	SA_DQ[2]	AL3	MDA2
MAAA7	AU22	SA_MA[6]	SA_DQ[3]	AL4	MDA3
MAAA8	AV22	SA_MA[7]	SA_DQ[3]	AJ2	MDA4
MAAA9	AT22	SA_MA[8]	SA_DQ[4]	AJ1	MDA5
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MAAA11	AU21	SA_MA[11]	SA_DQ[7]	AL1	MDA7
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[7] -SCASA	AV30	SA_CAS#	SA_DQ[9]	AN4	MDA9
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			SA_DQ[11]	AR4	MDA12
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[7] -CSA1	AV32	SA_CS#	SA_DQS[2]	AW4	-DQSA2
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	AW33	SA_CS#	SA_CS#	AT26	C
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	AU18	SA_CKE[2]	SA_DQ[18]	AV5	MDA18
	AV18	SA_CKE[3]	SA_DQ[19]	AW5	MDA19
			SA_DQ[20]	AU2	MDA20
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	MODT_A1	SA_ODT[1]	SA_DQ[22]	AU5	MDA22
	AU30	SA_ODT[2]	SA_DQ[23]	AY5	MDA23
	AW33	SA_ODT[3]			
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	AW27	SA_CLK[2]	SA_DQ[25]	AU7	MDA25
	AY27	SA_CLK[2]	SA_DQ[26]	AV9	MDA26
	AV26	SA_CLK[3]	SA_DQ[27]	AU9	MDA27
	AW26	SA_CLK[3]	SA_DQ[28]	AV7	MDA28
	AW26	SA_CLK[3]	SA_DQ[29]	AW7	MDA29
			SA_DQ[30]	AW9	MDA30
			SA_DQ[31]	AY9	MDA31
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			SA_DQ[33]	AW37	MDA33
			SA_DQ[34]	AU39	MDA34
			SA_DQ[35]	AU36	MDA35
			SA_DQ[36]	AW35	MDA36
			SA_DQ[37]	AY36	MDA37
			SA_DQ[38]	AU38	MDA38
			SA_DQ[39]	AU37	MDA39
			SA_DQS[5]	AP38	DQSA5
			SA_DQS[5]	AP39	-DQSA5
			SA_DQ[40]	AR40	MDA40
			SA_DQ[41]	AR37	MDA41
			SA_DQ[42]	AN38	MDA42
			SA_DQ[43]	AN37	MDA43
			SA_DQ[44]	AR39	MDA44
			SA_DQ[45]	AR38	MDA45
			SA_DQ[46]	AN39	MDA46
			SA_DQ[47]	AN40	MDA47
			SA_DQS[6]	AK38	DQSA6
			SA_DQS[6]	AK39	-DQSA6
			SA_DQ[48]	AL40	MDA48
			SA_DQ[49]	AL37	MDA49
			SA_DQ[50]	AJ38	MDA50
			SA_DQ[51]	AJ37	MDA51
			SA_DQ[52]	AL39	MDA52
			SA_DQ[53]	AL38	MDA53
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			SA_DQ[55]	AJ40	MDA55
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			SA_DQ[58]	AE38	MDA58
			SA_DQ[59]	AE37	MDA59
			SA_DQ[60]	AG39	MDA60
			SA_DQ[61]	AE39	MDA61
			SA_DQ[62]	AE40	MDA62
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DDR_0

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

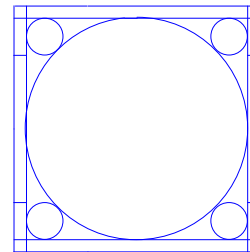
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MAAB5	AP18	SB_MA[5]	SB_DQ[1]	AG8	MDB1
MAAB6	AM18	SB_MA[6]	SB_DQ[2]	AJ9	MDB2
MAAB7	AL18	SB_MA[7]	SB_DQ[3]	AJ8	MDB3
MAAB8	AY17	SB_MA[8]	SB_DQ[4]	AG5	MDB4
MAAB9	AN23	SB_MA[10]	SB_DQ[6]	AG6	MDB5
MAAB10	AN17	SB_MA[11]	SB_DQ[7]	AJ6	MDB6
MAAB11	AT18	SB_MA[12]			
MAAB12	AR26	SB_MA[13]	SB_DQS[1]	AM8	DQSB1
MAAB13	AY16	SB_MA[14]	SB_DQS[1]	AL8	-DQSB1
MAAB14	AY16	SB_MA[15]			
MAAB15	AY16	SB_MA[15]			
[8] -SWEB	AR25	SB_WE#	SB_DQ[8]	AL7	MDB8
[8] -SCASB	AK25	SB_CAS#	SB_DQ[9]	AM7	MDB9
[8] -SRASB	AP24	SB_RAS#	SB_DQ[10]	AM10	MDB10
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[8] SBAB2	AW17	SB_BS[2]	SB_DQ[14]	AL9	MDB14
			SB_DQ[15]	AM9	MDB15
[8] -CSB0	AN25	SB_CS#	SB_DQS[2]	AR8	DQSB2
[8] -CSB1	AN26	SB_CS#	SB_DQS[2]	AP8	-DQSB2
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	AM26	SB_ODT[2]	SB_DQ[23]	AR9	MDB23
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	AK21	SB_CLK[3]	SB_DQ[30]	AR12	MDB30
	AN21	SB_CLK[3]	SB_DQ[31]	AP12	MDB31
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VREF_DQA	AH4	FC_AH4			
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			SB_DQ[35]	AL29	MDB35
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			SB_DQ[37]	AP29	MDB37
			SB_DQ[38]	AM28	MDB38
			SB_DQ[39]	AM29	MDB39
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			SB_DQ[53]	AL31	MDB53
			SB_DQ[54]	AM35	MDB54
			SB_DQ[55]	AL34	MDB55
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DDR_1

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

CR
CPU RETENTION/X

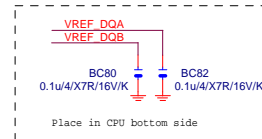
Need check the new CPU ME

CPU_P



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

DDR SIGNAL



[7] MODT_A[0..1] <-- MODT_A0..11

[8] MODT_B[0..1] <-- MODT_B0..11

[7] MDA[0..63] <-- MDA0..631

[8] MDB[0..63] <-- MDB0..631

[7] DQSA[0..7] <-- DQSA0..71

[7] -DQSA[0..7] <-- -DQSA0..71

[7] MAA[A0..15] <-- MAA0..151

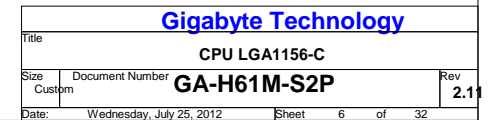
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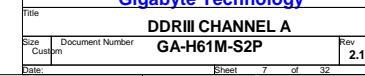
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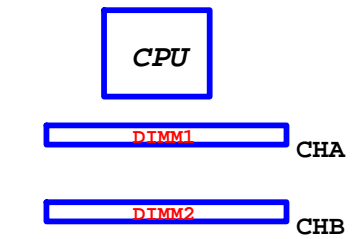
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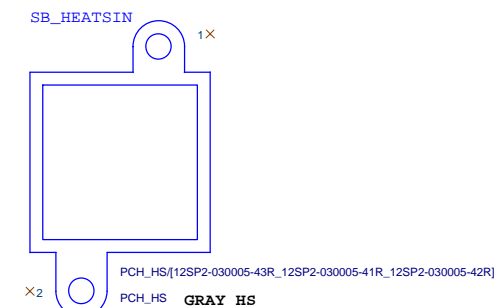
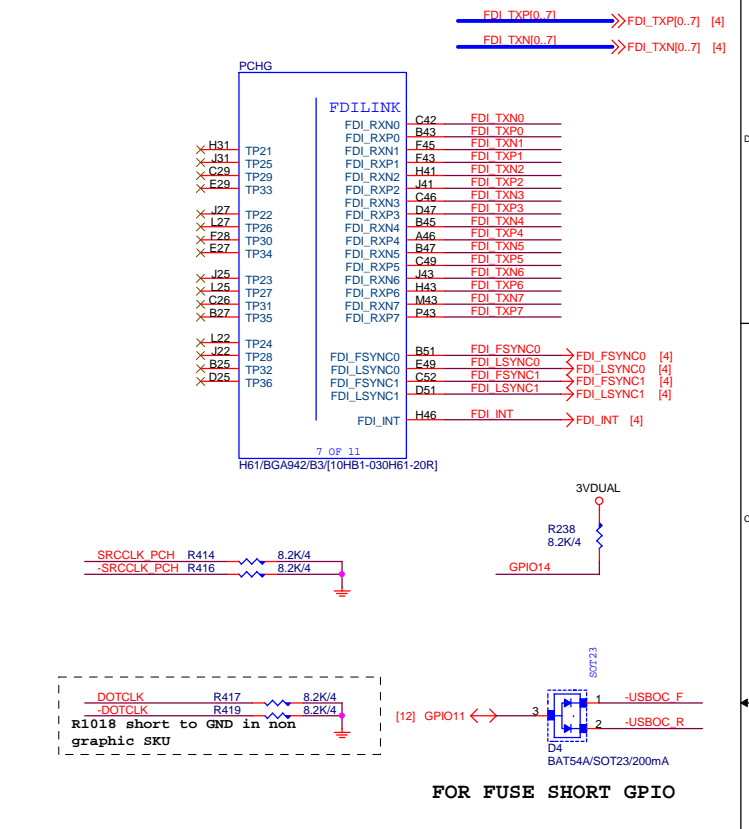
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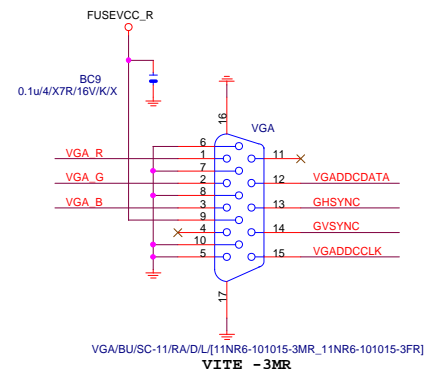
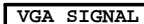
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Size		Document Number		GA-H61M-S2P					Rev
Custom									2.1
Date:		Wednesday, July 25, 2012			Sheet		5		of 32







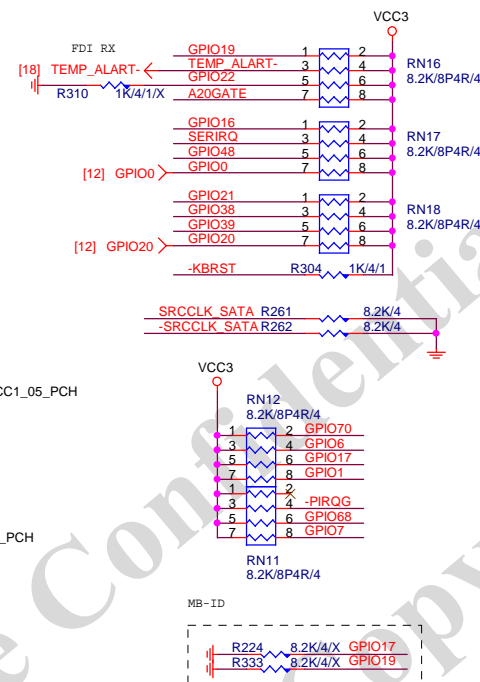
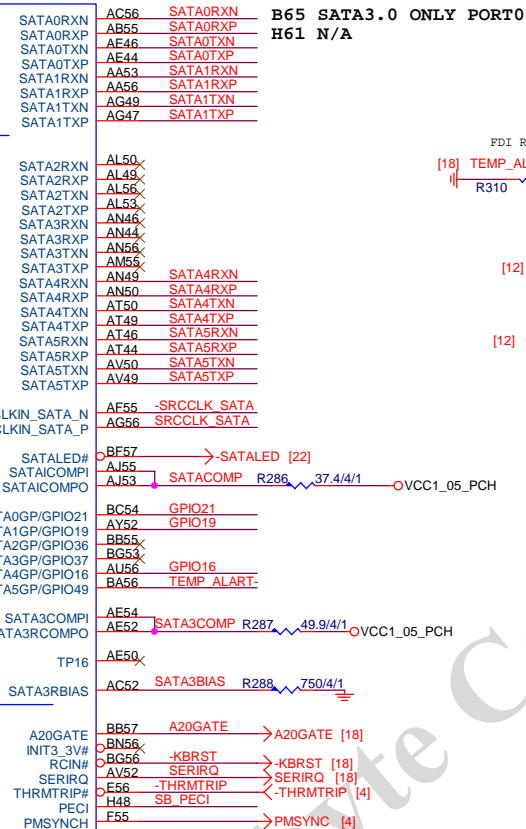
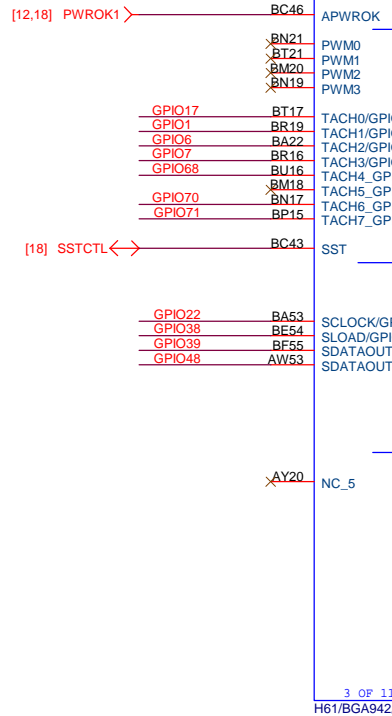




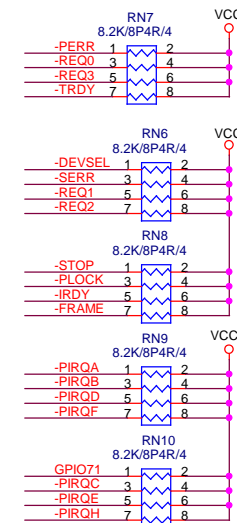
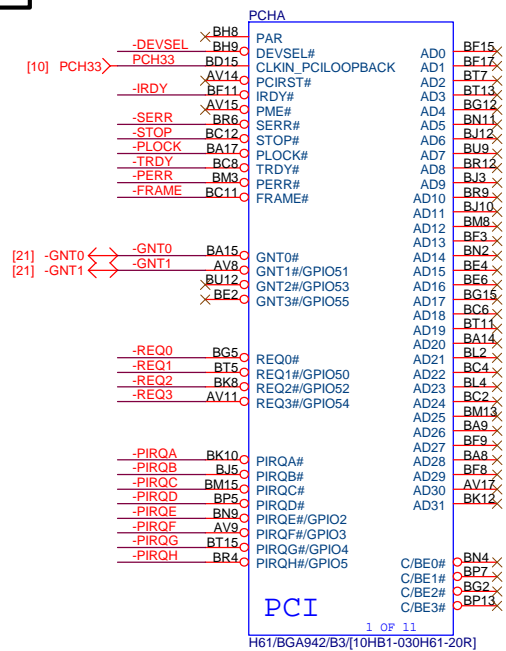
PCH C

PCHC

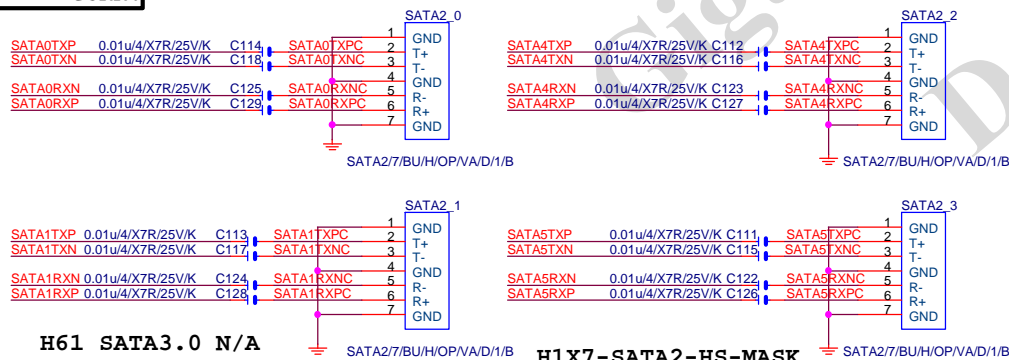
For WIFI



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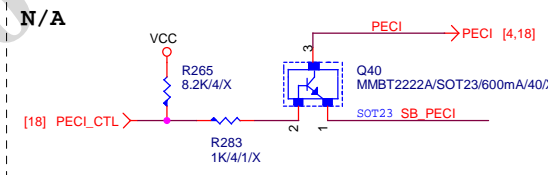


SATA CONN.



H61 SATA3.0 N/A

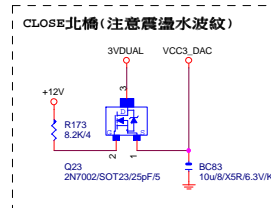
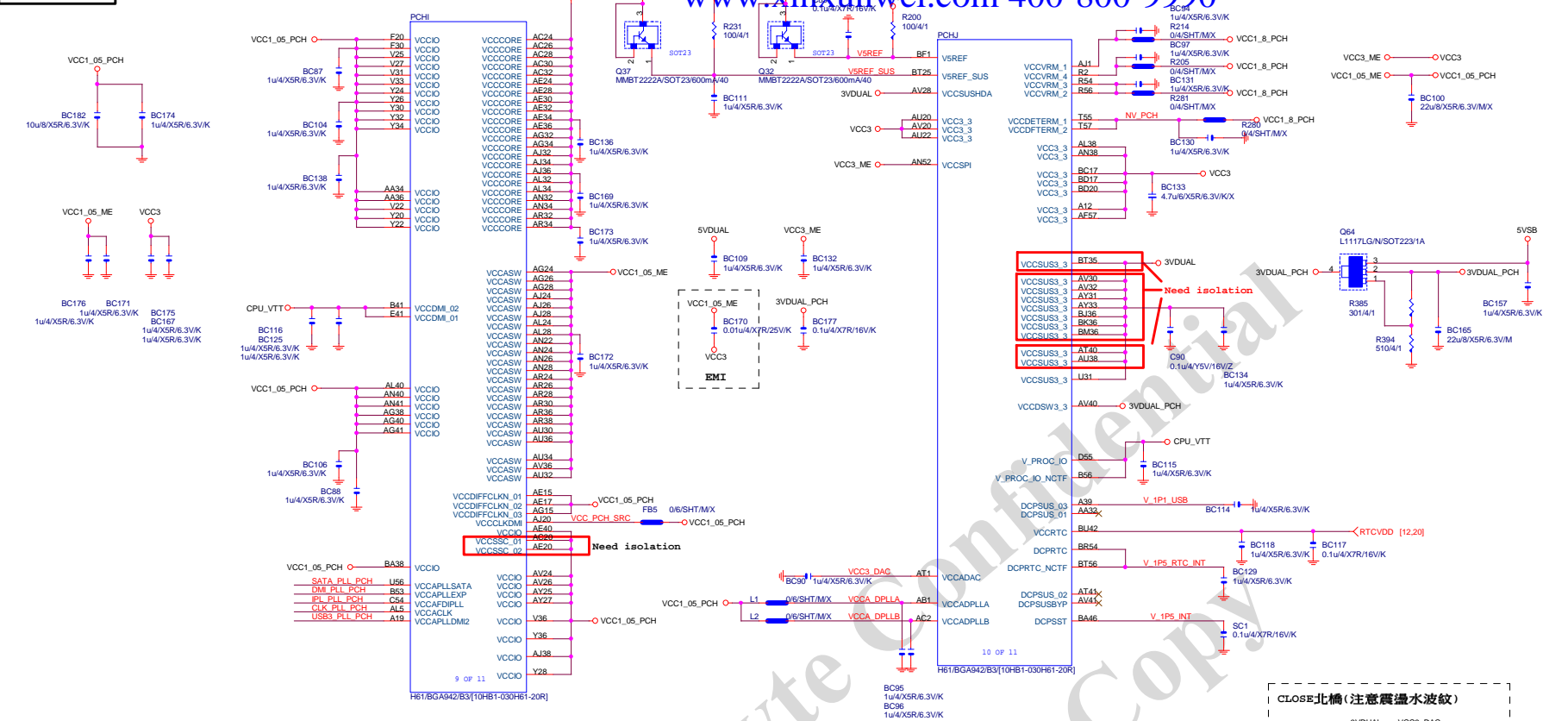
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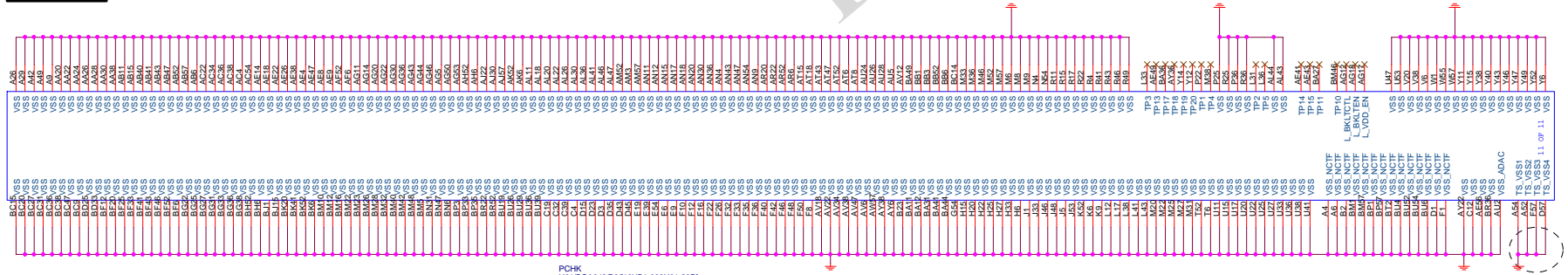
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Size B	Document Number	GA-H61M-S2P	2.11
Date:	Wednesday, July 25, 2012	Sheet	11 of 32

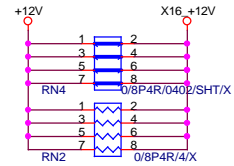
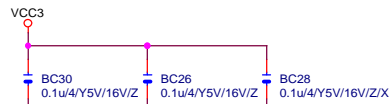
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PCH K GND

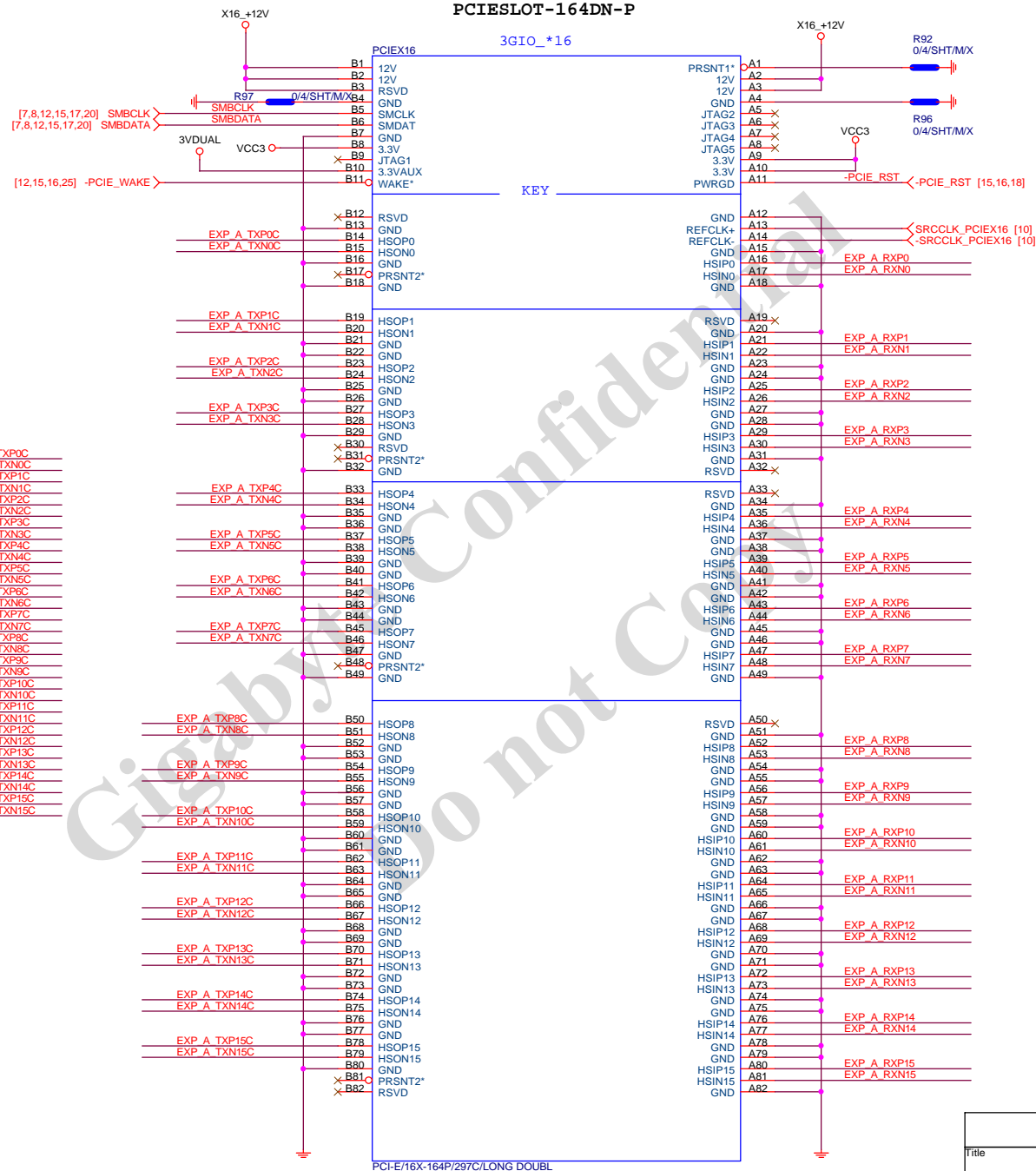


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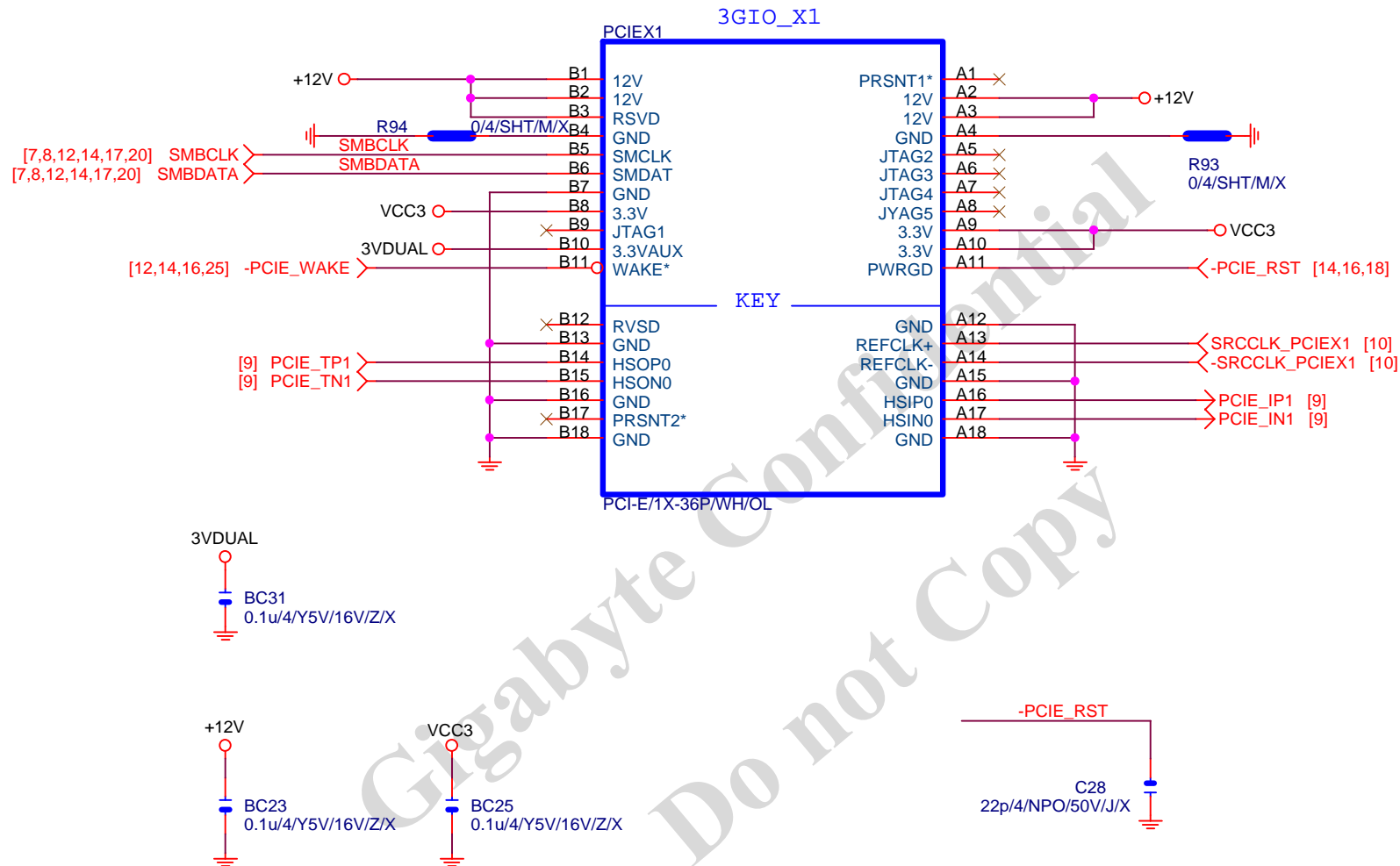
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 EXP A RXN0..15] >> EXP_A_RXN[0..15] [4]
 EXP A TXP0..15] >> EXP_A_TXP[0..15] [4]
 EXP A TXN0..15] >> EXP_A_TXN[0..15] [4]

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EXP A TXN0	C30	0.22u4/X5R/6.3V/K	EXP A TXN0C
EXP A TXP1	C35	0.22u4/X5R/6.3V/K	EXP A TXP1C
EXP A TXN1	C37	0.22u4/X5R/6.3V/K	EXP A TXN1C
EXP A TXP2	C39	0.22u4/X5R/6.3V/K	EXP A TXP2C
EXP A TXN2	C41	0.22u4/X5R/6.3V/K	EXP A TXN2C
EXP A TXP3	C43	0.22u4/X5R/6.3V/K	EXP A TXP3C
EXP A TXN3	C45	0.22u4/X5R/6.3V/K	EXP A TXN3C
EXP A TXP4	C46	0.22u4/X5R/6.3V/K	EXP A TXP4C
EXP A TXN4	C49	0.22u4/X5R/6.3V/K	EXP A TXN4C
EXP A TXP5	C50	0.22u4/X5R/6.3V/K	EXP A TXP5C
EXP A TXN5	C51	0.22u4/X5R/6.3V/K	EXP A TXN5C
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EXP A TXP7	C57	0.22u4/X5R/6.3V/K	EXP A TXP7C
EXP A TXN7	C58	0.22u4/X5R/6.3V/K	EXP A TXN7C
EXP A TXP8	C60	0.22u4/X5R/6.3V/K	EXP A TXP8C
EXP A TXN8	C61	0.22u4/X5R/6.3V/K	EXP A TXN8C
EXP A TXP9	C62	0.22u4/X5R/6.3V/K	EXP A TXP9C
EXP A TXN9	C63	0.22u4/X5R/6.3V/K	EXP A TXN9C
EXP A TXP10	C64	0.22u4/X5R/6.3V/K	EXP A TXP10C
EXP A TXN10	C65	0.22u4/X5R/6.3V/K	EXP A TXN10C
EXP A TXP11	C66	0.22u4/X5R/6.3V/K	EXP A TXP11C
EXP A TXN11	C67	0.22u4/X5R/6.3V/K	EXP A TXN11C
EXP A TXP12	C68	0.22u4/X5R/6.3V/K	EXP A TXP12C
EXP A TXN12	C70	0.22u4/X5R/6.3V/K	EXP A TXN12C
EXP A TXP13	C72	0.22u4/X5R/6.3V/K	EXP A TXP13C
EXP A TXN13	C73	0.22u4/X5R/6.3V/K	EXP A TXN13C
EXP A TXP14	C74	0.22u4/X5R/6.3V/K	EXP A TXP14C
EXP A TXN14	C75	0.22u4/X5R/6.3V/K	EXP A TXN14C
EXP A TXP15	C77	0.22u4/X5R/6.3V/K	EXP A TXP15C
EXP A TXN15	C78	0.22u4/X5R/6.3V/K	EXP A TXN15C



Gigabyte Technology

Title			
PCI EXPRESS * 16			
Size			
Custom			
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**Gigabyte Technology**

Title

PCI EXPRESS X 1 PORTSize
A

Document Number

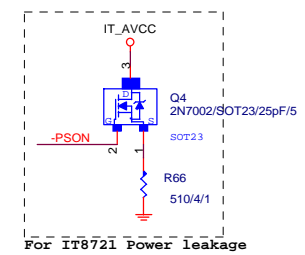
GA-H61M-S2PRev
2.11

Date: Wednesday, July 25, 2012

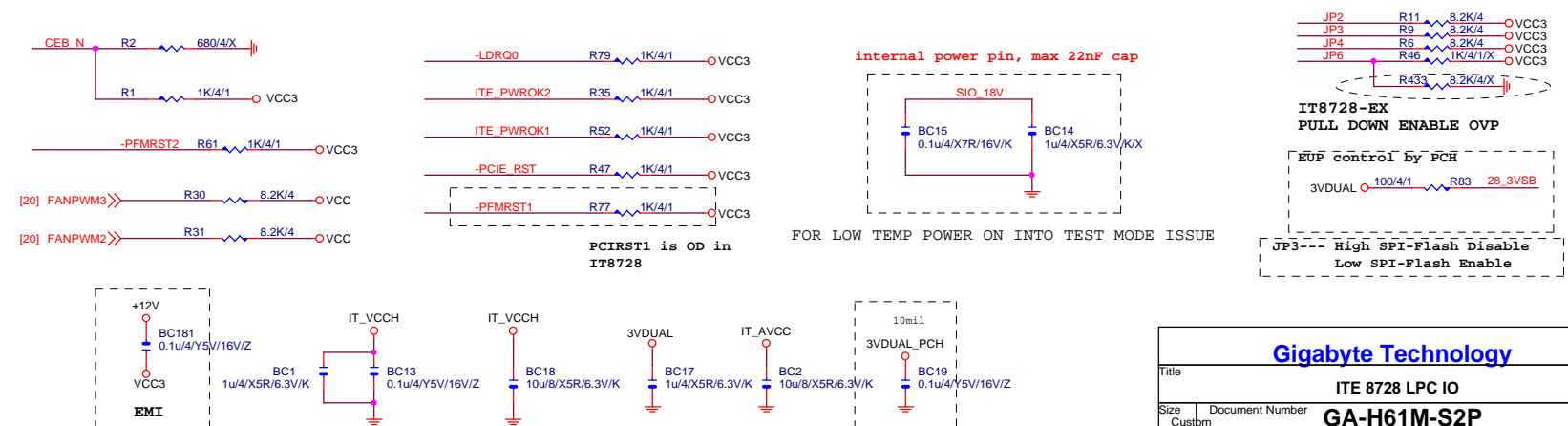
Sheet 15 of 32

Co-Lay IT8893 (IT8893 CLKOUT1 N/A)

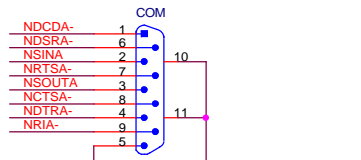
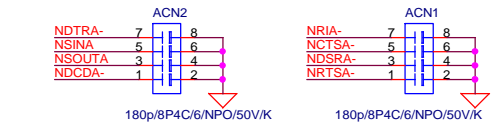
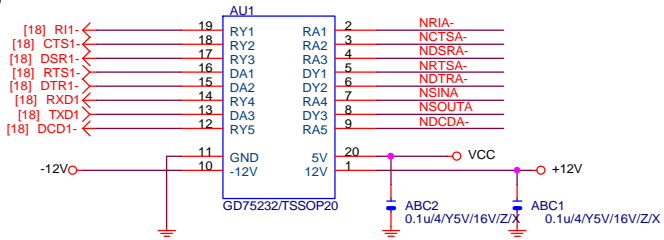




	IT8728
PIN121	VCORE_EN/PC_H_C0
PIN120	VLD_T_EN/PC_H_D0
PIN19	ATXP_G
PIN31	PC_H_C1
PIN53	SST/AMDSI_D1/MTRB#/PC_H_D1
PIN55	PECI/AMDSI_C/DRV#
PIN66	SYS_3VSB
PIN70	GP47
PIN95	VIN2 (VCC5)
PIN96	VIN1 (VCC12)
PIN97	VIN1/VDIMM_STR(1.5V)
PIN98	VIN0/VCORE (1.1V)/NC



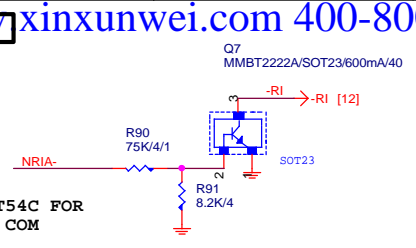
COM



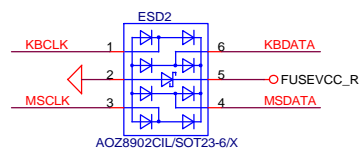
COM/GE/SC-6mm/RA1/D/[11NR6-111009-1QR_11NR6-111009-1JR]

VITE -1QR

COM/RI

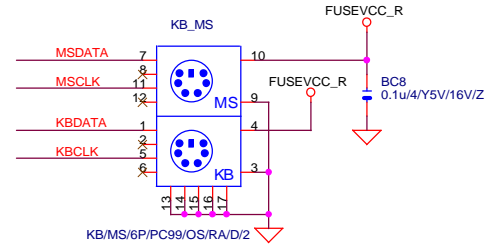


BAT54C FOR X2 COM

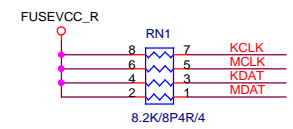
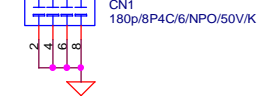


CLOSE KB_MS

KB/MS

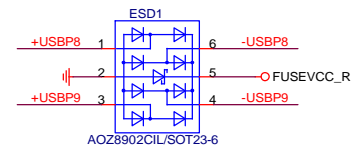
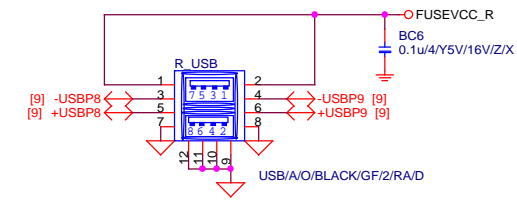
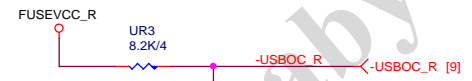
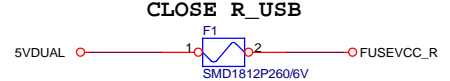


FOR鹽化短路



R_USB1

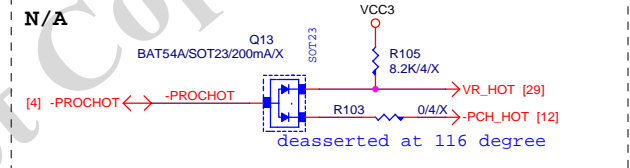
CLOSE R_USB



CLOSE R_USB1

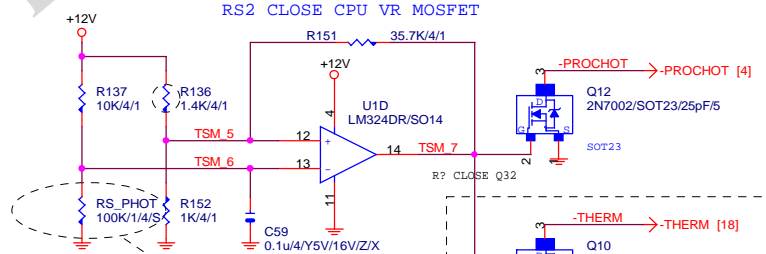
-PROHOT

N/A



deasserted at 116 degree

RS2 CLOSE CPU VR MOSFET



CLOSE PWM HOT MOSFET

-PROHOT -> -PROHOT [4]

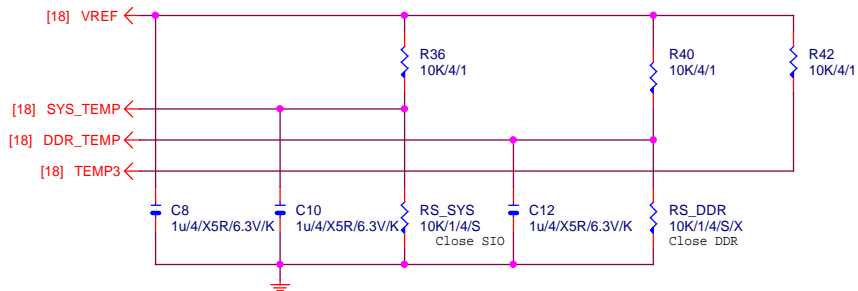
-THERM -> -THERM [18]

THERMAL SHUTDOWN BIOS NO FUNCTION

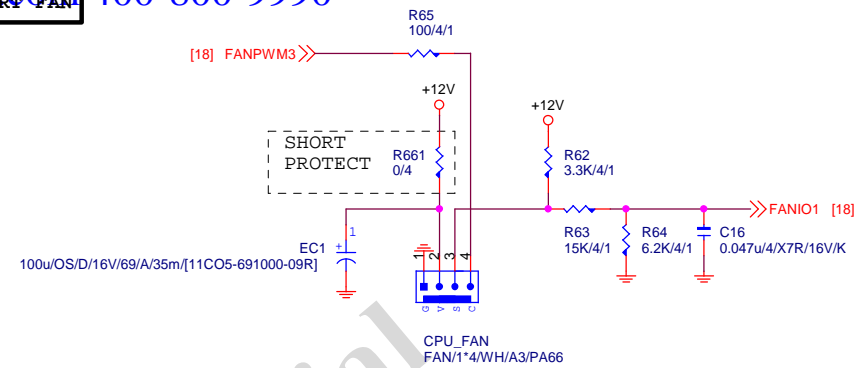
Gigabyte Technology

Title			COM,-RI,KB_USB,USB_ESATA,-PROHOT	
Size	Document Number	GA-H61M-S2P		Rev
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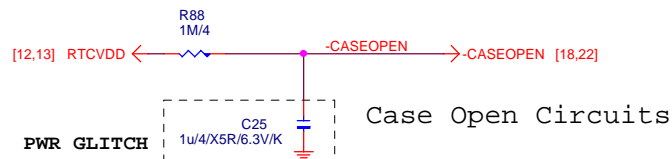
TEMP H/W MONITOR



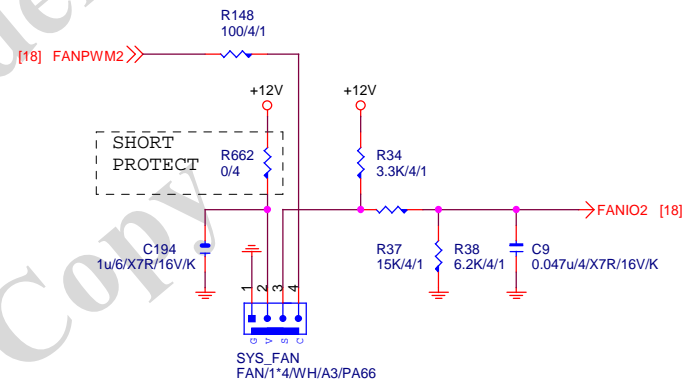
CPU SMART FAN



CASE OPEN

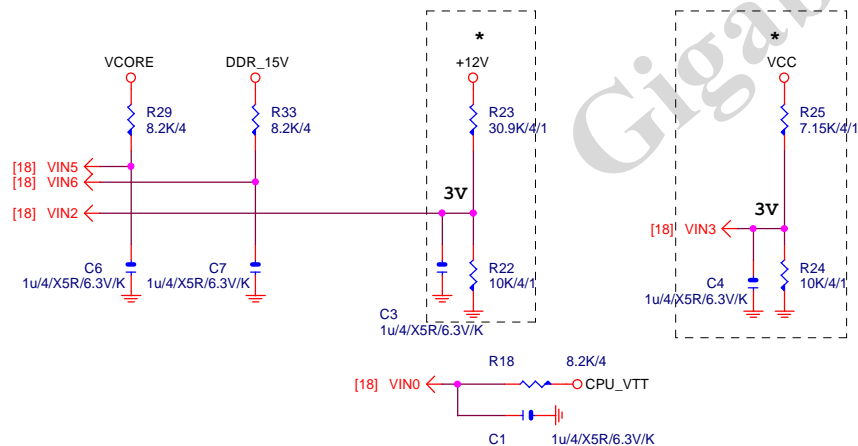


SYS SMART FAN

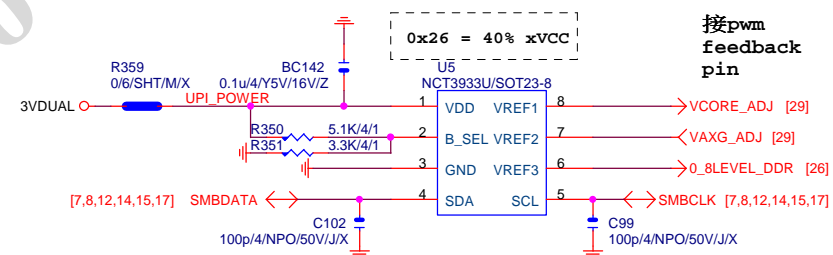


VOLTAGE-- H/W MONITOR

IT8728/EX VIN2/VIN3-->2V



O.V.

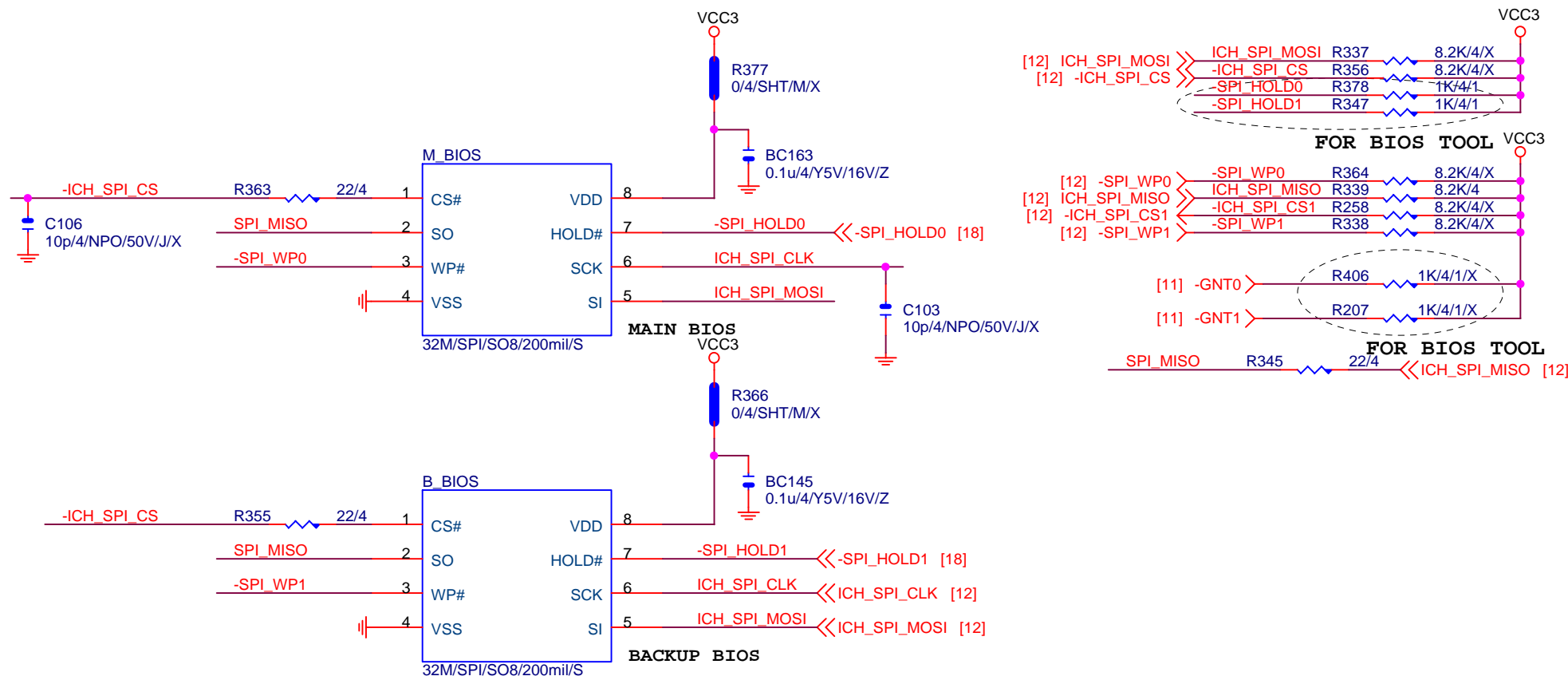


Gigabyte Technology

Title			HWM,FAN CTRL,OV	
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DUAL BIOS

www.xinxunwei.com 400-800-9990



B65使用64M BIOS

使用H67暫用32M

H61使用32M BIOS

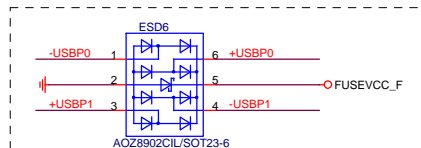
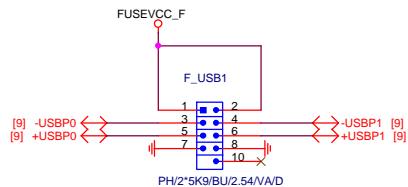
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating
0 means PD 1K

Gigabyte Technology

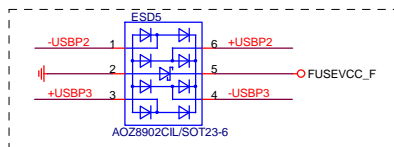
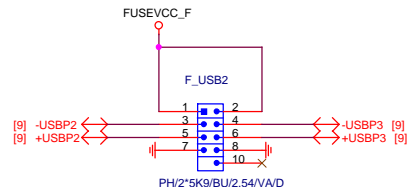
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DUAL BIOS		
Size A	Document Number	Rev
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FRONT USB1



Close to connector

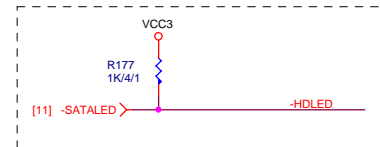
FRONT USB2



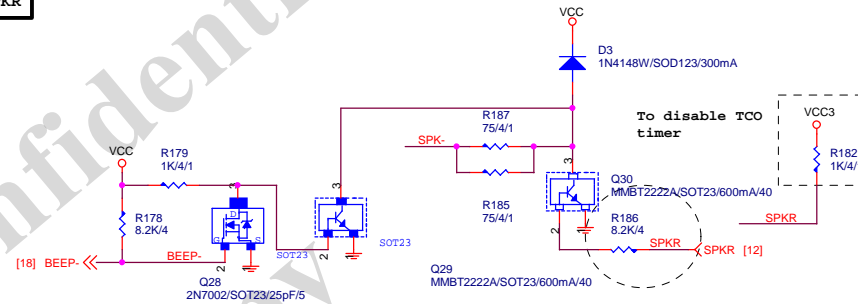
Close to connector

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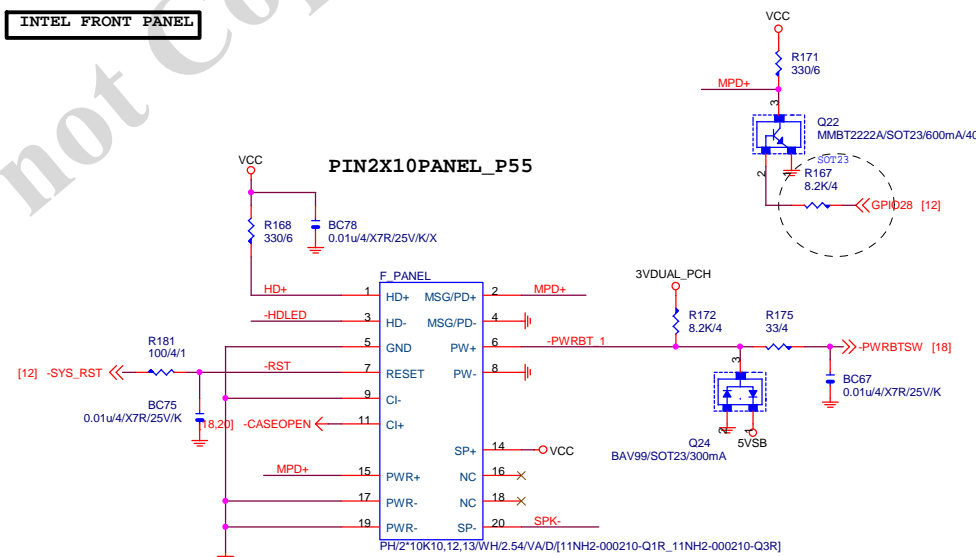
SATA LED



SPKR



INTEL FRONT PANEL



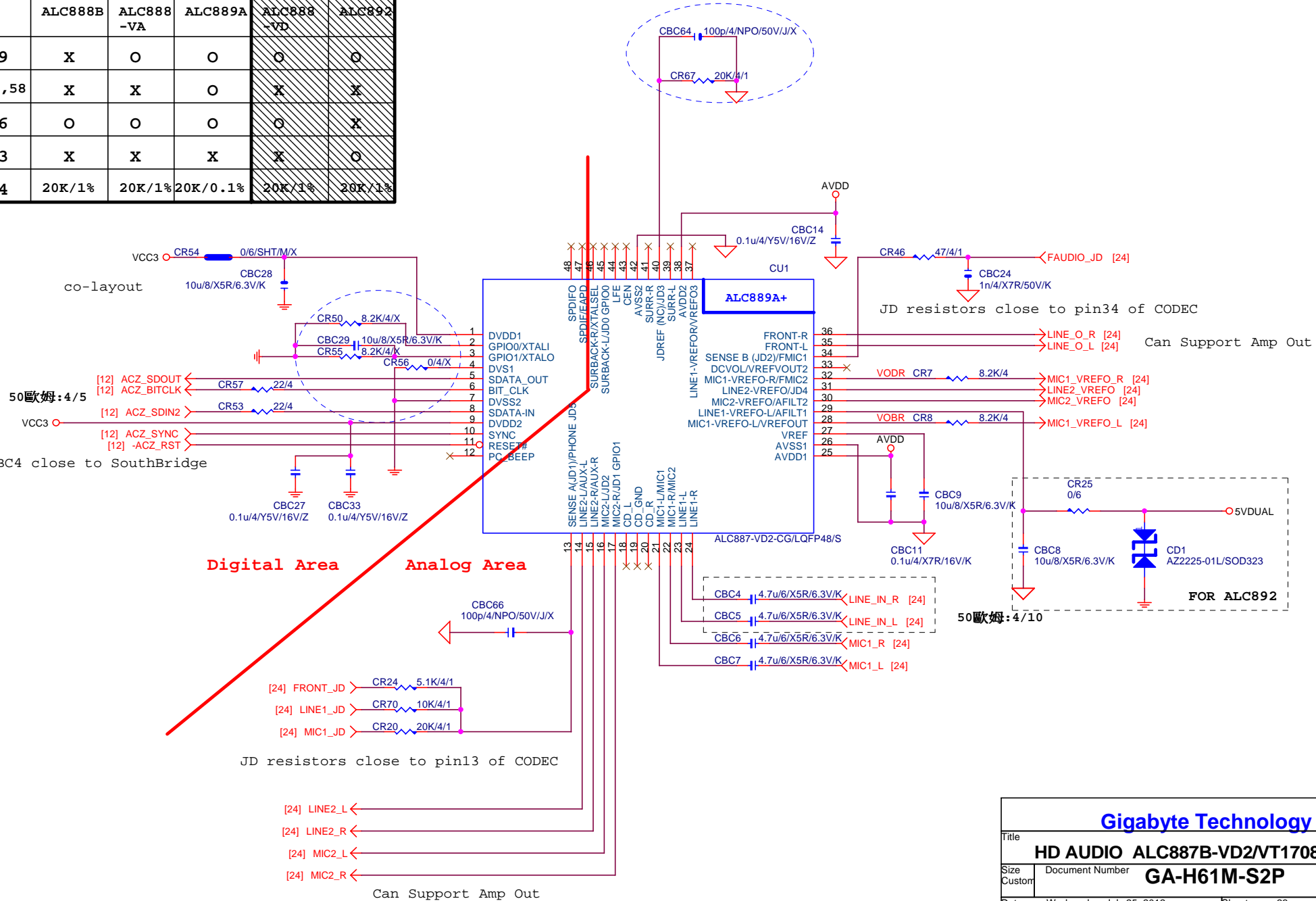
Gigabyte Technology

Title		FP,F_USB,USB PWR,SPKR,SATA LED	
Size		GA-H61M-S2P	
Date		Wednesday, July 25, 2012	
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AZALIA CODEC

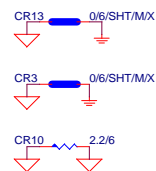
ALC892/ALC889A/ALC889/ALC888B Colay

	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%

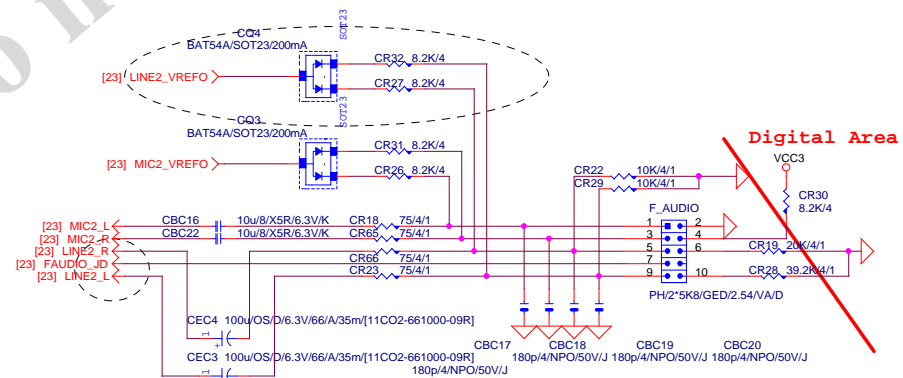
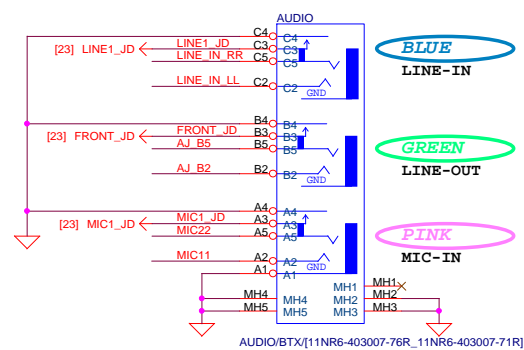
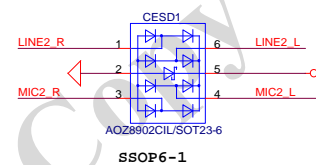


Gigabyte Technology

Title	HD AUDIO ALC887B-VD2/VT1708S/VT2021		
Size	Document Number	GA-H61M-S2P	Rev
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N/A

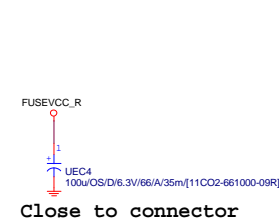
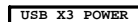




SRCCLK-->50歐姆:[18/4/10/4/18



	RTL8111E
AVDD33	3.3V
DVDD33	3.3V
VDDREG	3.3V
DVDD10	1.05V



Close to connector



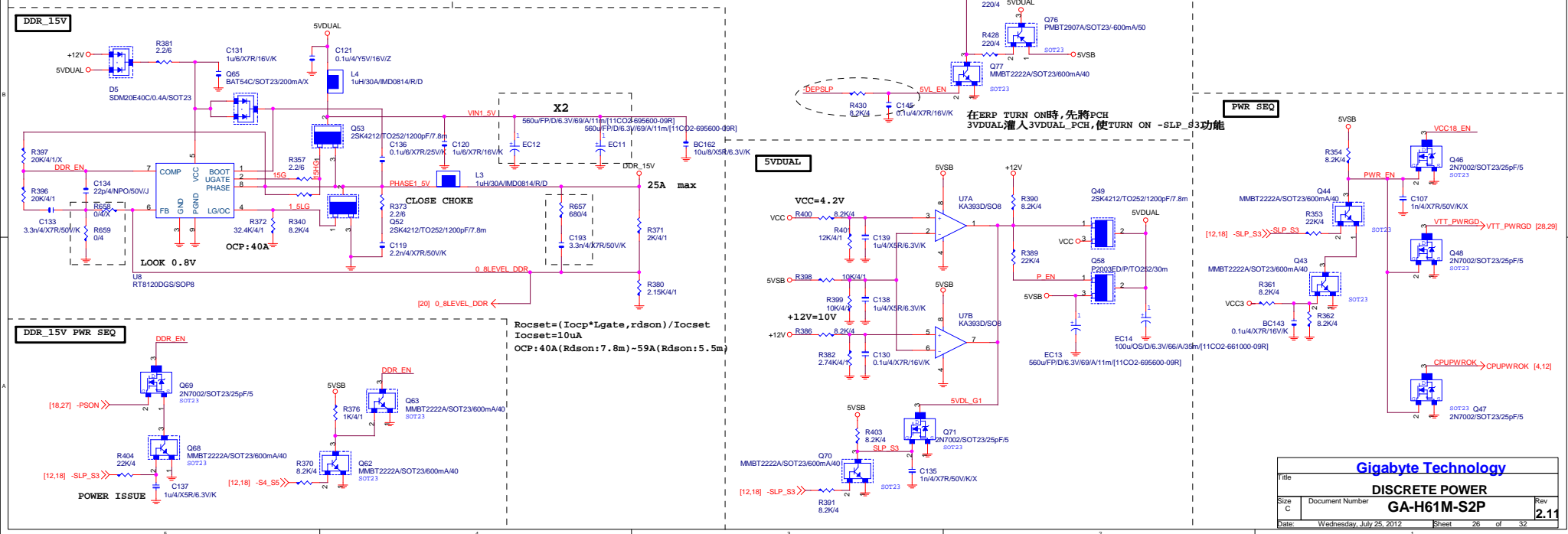
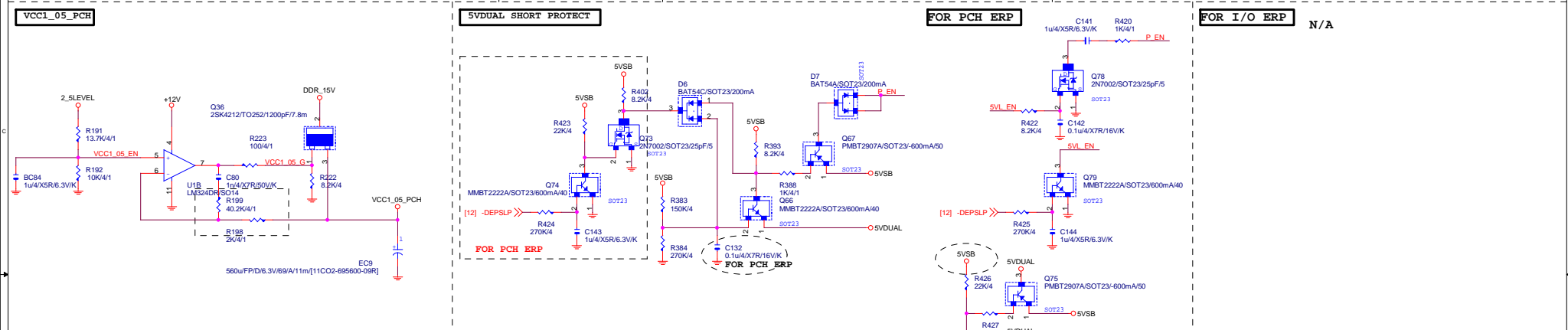
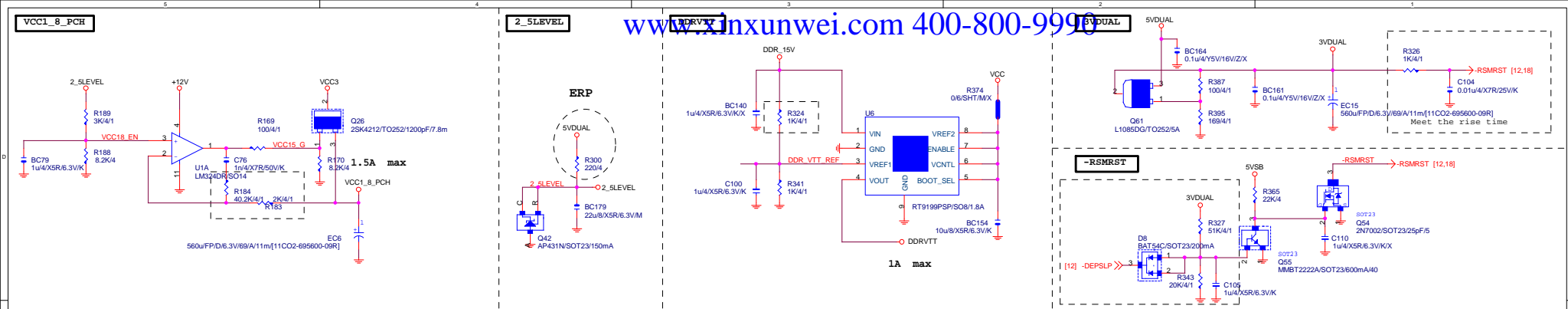
PS:視EMI需求

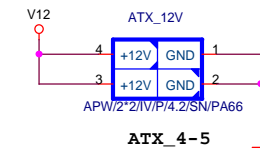


料號	規格	廠商
11NR6-702009-0ER	1G LAN (12core)	UDE
11NR6-702009-91R	1G LAN(8 core)	FOXCONN
11NR6-702009-92R	1G LAN(8 core)	UDE
11NR6-702009-11R	1G LAN(12core/RED)	UDE
11NR6-702009-12R	1G LAN(8 core/RED)	FOXCONN

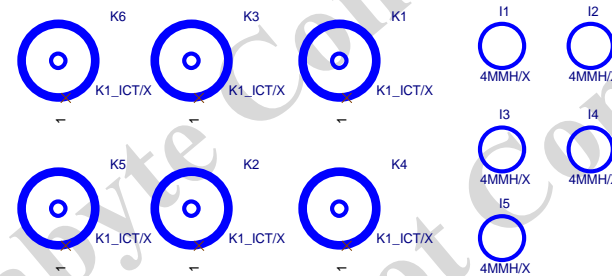
USB_LAN BOM區分:

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

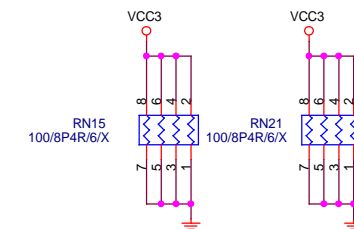




FIX PWR MINMUN LOAD



To prevent the 5VSB under loading when boot



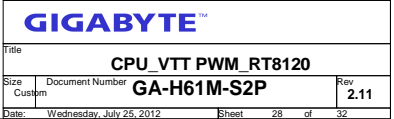
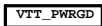
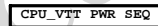
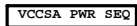
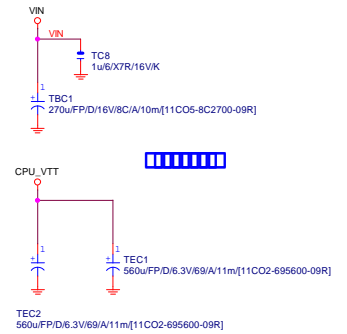
Gigabyte Technology

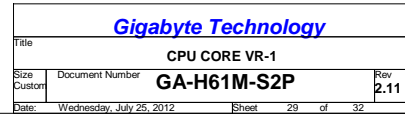
ATX CONNECTOR

Size	Document Number	GA-H61M-S2P
Custom		

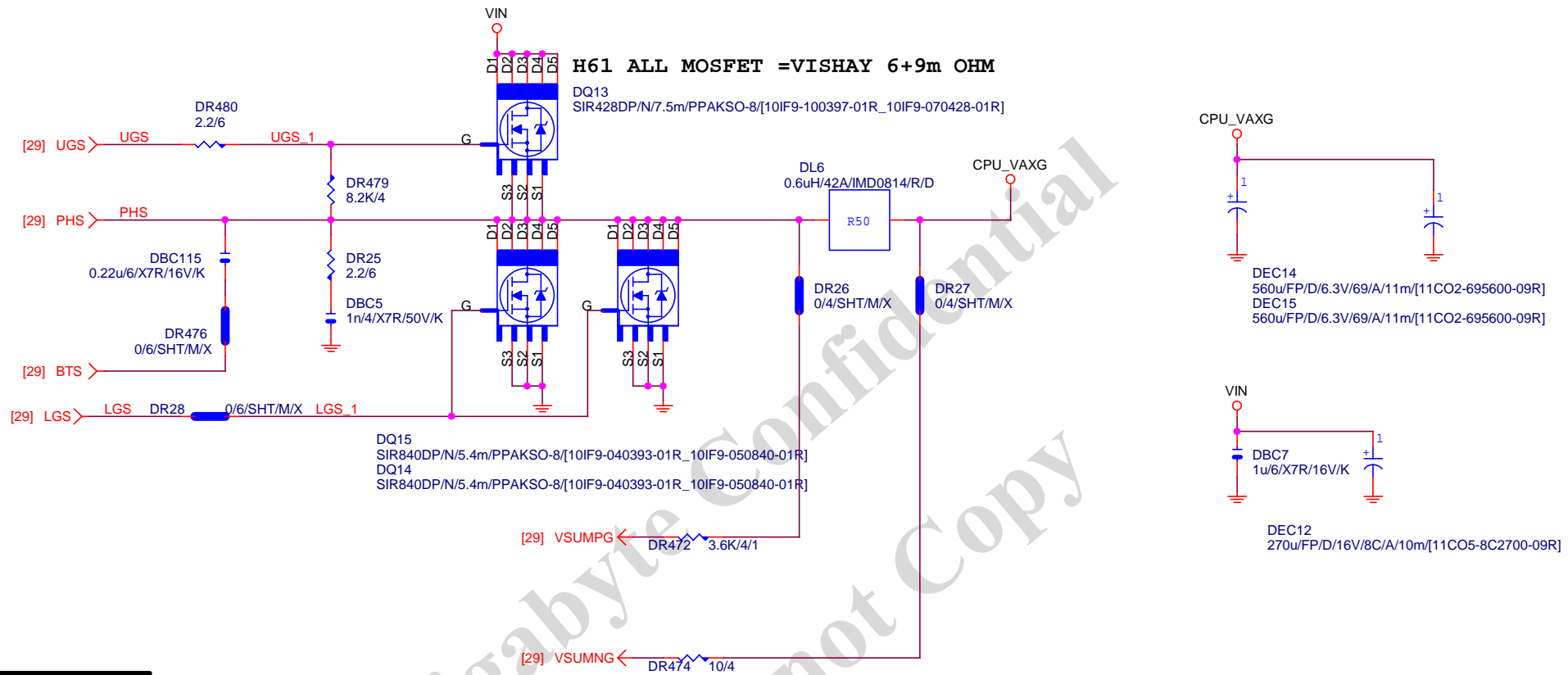
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2.11	

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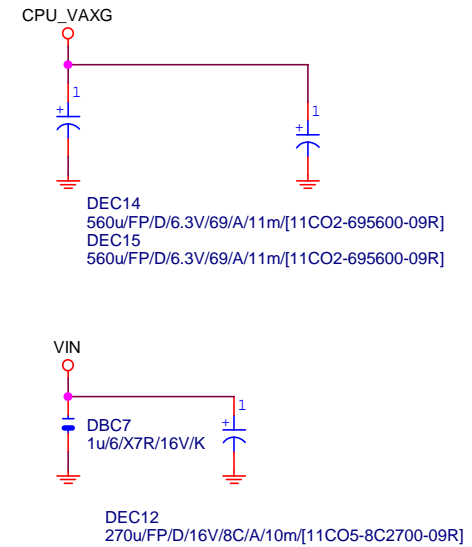




VAXG



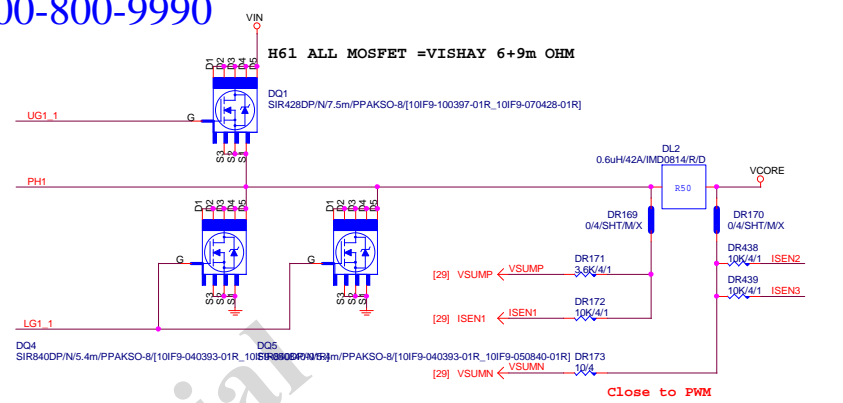
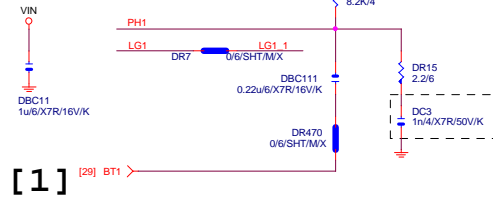
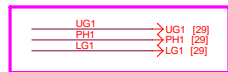
MOS HEATSINK



Gigabyte Technology

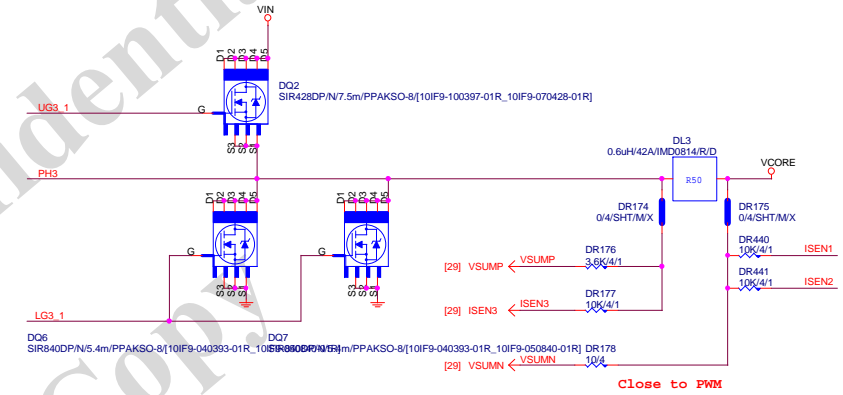
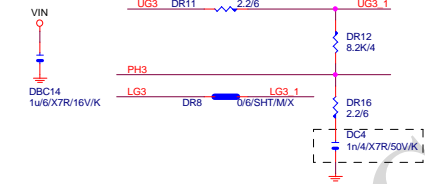
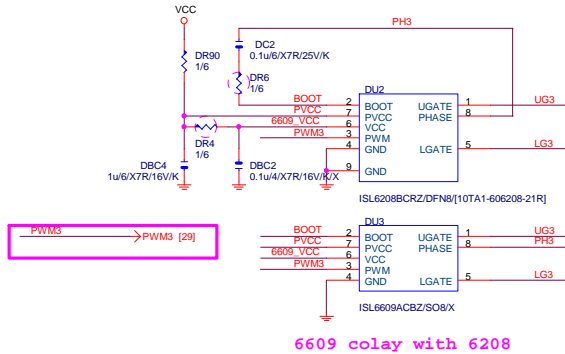
Title			
CPU CORE VR-2			
Size	Document Number	GA-H61M-S2P	
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PHASE 1

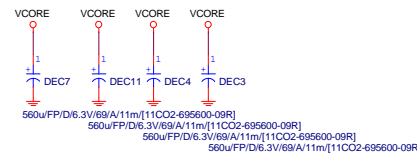
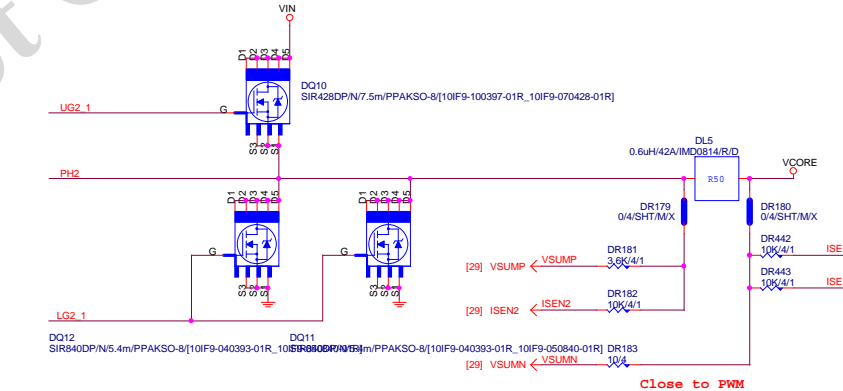
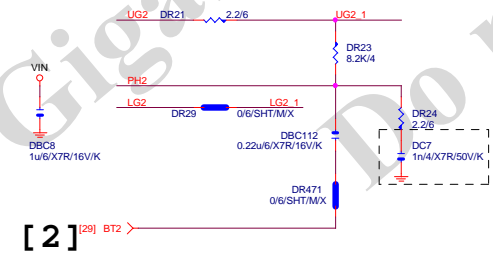
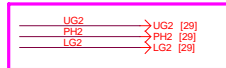


PHASE 3

Pop ISL6625CB for PS1
 [ISL6625CB2/S08]



PHASE 2



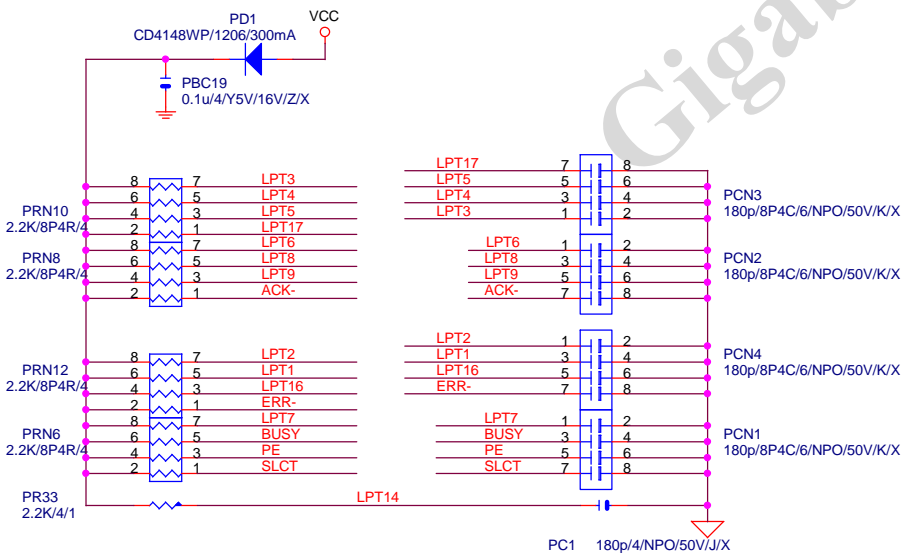
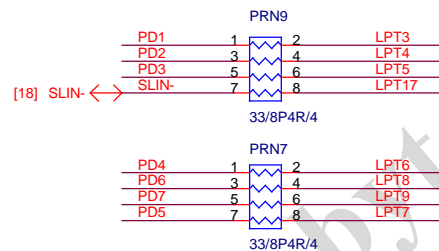
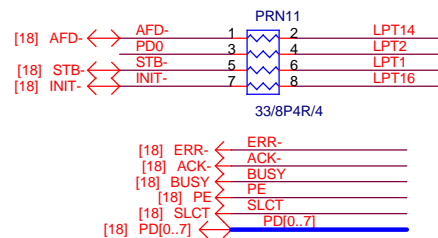
Gigabyte Technology

CPU CORE VR-3

GA-H61M-S2P

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LPT PORT



COMB N/A

