

Model Name: GA-H61M-S1

Rev: 3.01

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*1x2 SLOT
16	ITE 8620 LPC IO
17	KB_MS,R_USB,-PROCHOT
18	HWM,FAN CTRL,OV
19	Dual BIOS
20	FP,FUSB,SPK,SATALED
21	ALC887
22	REAR AUDIO JACK
23	REALTEK 8111F/USB_LAN
24	DISCRETE POWER
25	ATX,-S_WARN,-S_ACK,5VDUAL
26	CPU_VTT
27	VCORE INTERSIL_95836_1

SHEET

TITLE

28	VCORE INTERSIL_95836_2
29	VCORE INTERSIL_95836_3

Gigabyte Technology		
Cover Sheet		
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Model Name: GA-H61M-S1

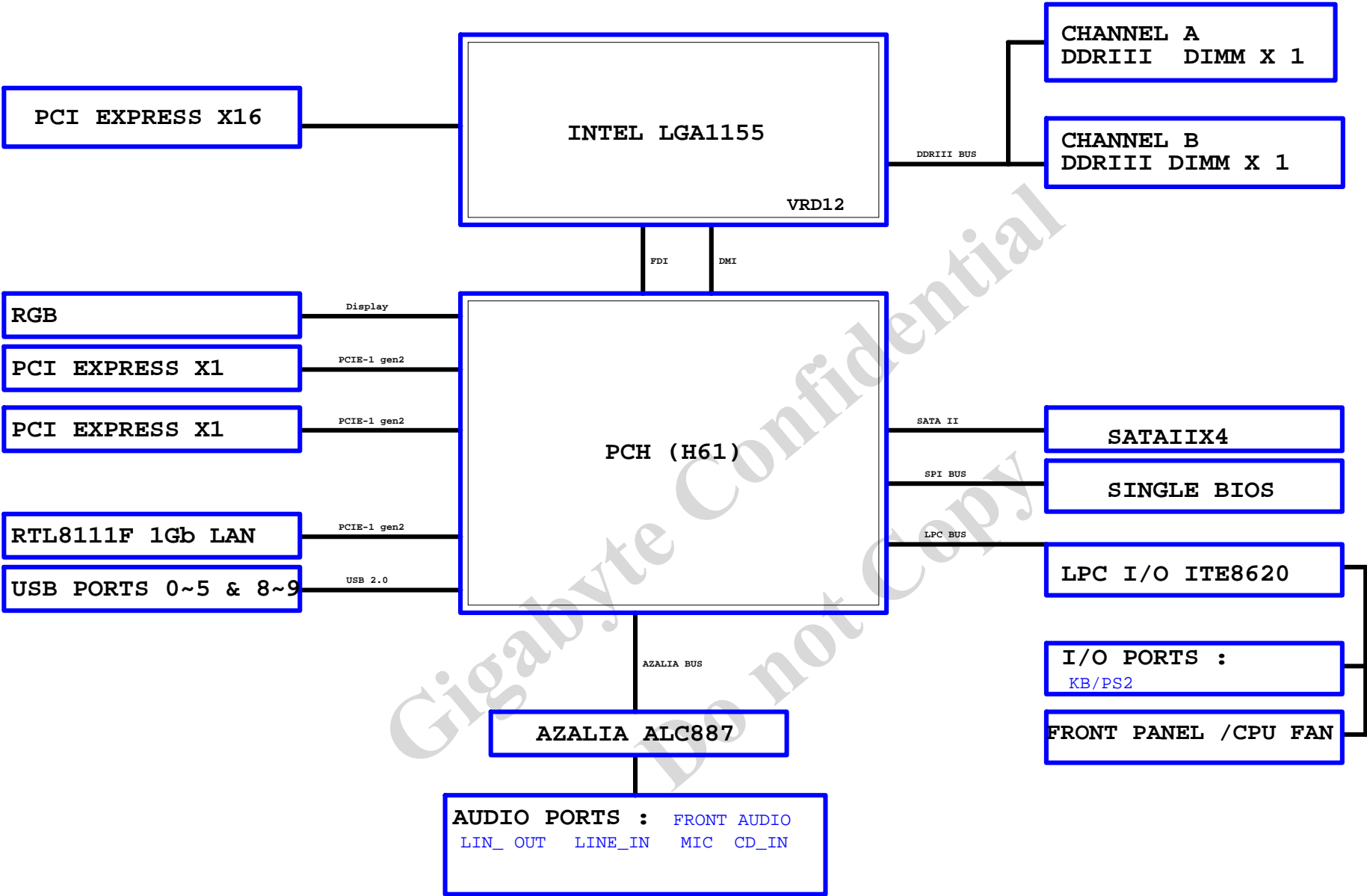
Component value change history

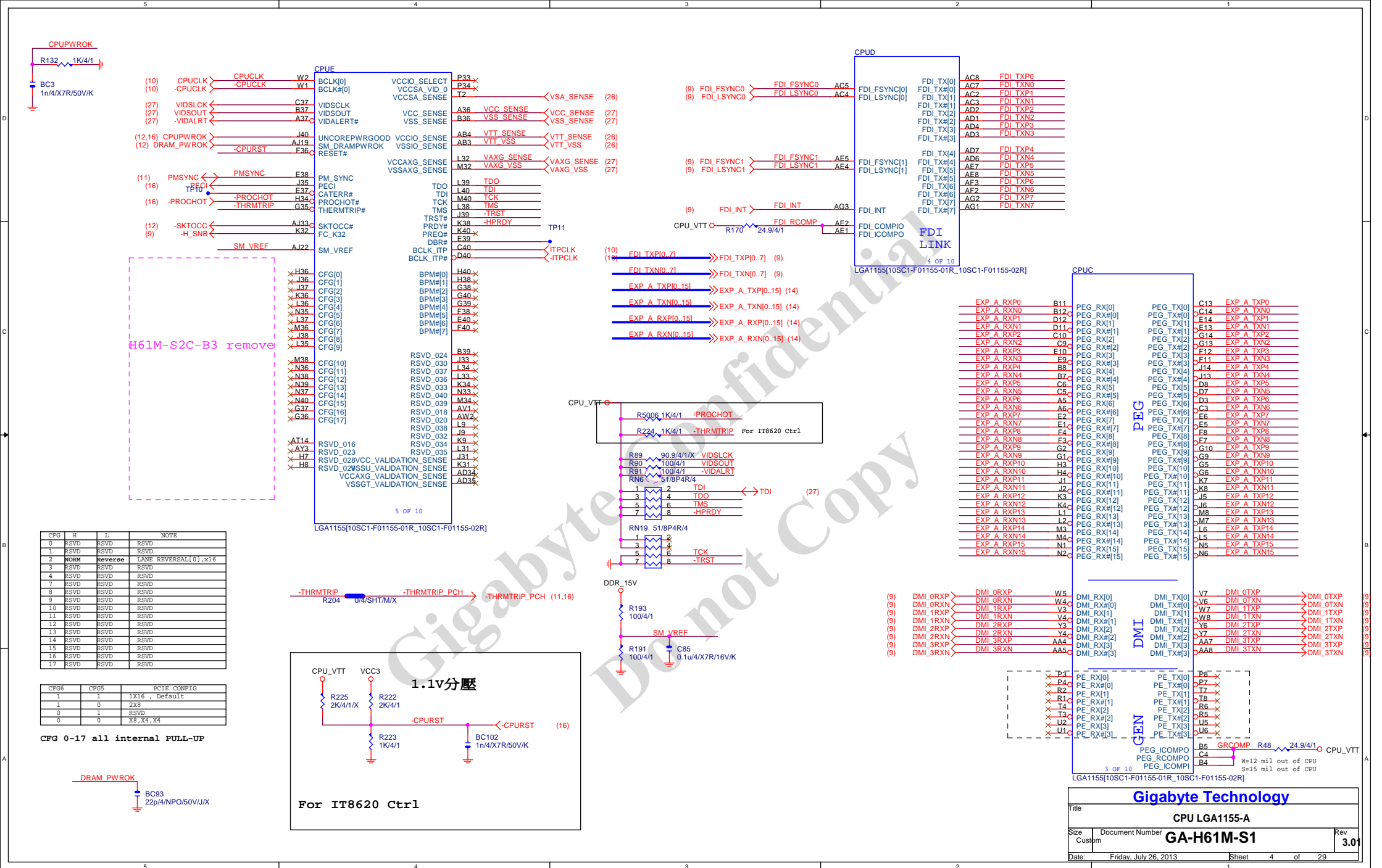
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Circuit or PCB layout change

[illegible]

BLOCK DIAGRAM





CPUA

MAAA0	AV27	SA_MA[0]	SA_DQS[0]	AK3	DQSA0
MAAA1	AY24	SA_MA[1]	SA_DQS[0]	AK2	-DQSA0
MAAA2	AW24	SA_MA[2]			
MAAA3	AW23	SA_MA[3]			
MAAA4	AV23	SA_MA[4]	SA_DQ[0]	AJ3	MDA0
MAAA5	AT24	SA_MA[5]	SA_DQ[1]	AJ4	MDA1
MAAA6	AT23	SA_MA[6]	SA_DQ[2]	AL3	MDA2
MAAA7	AV22	SA_MA[7]	SA_DQ[3]	AL4	MDA3
MAAA8	AT22	SA_MA[8]	SA_DQ[4]	AJ2	MDA4
MAAA9	AT21	SA_MA[9]	SA_DQ[5]	AJ1	MDA5
MAAA10	AV28	SA_MA[10]	SA_DQ[6]	AL2	MDA6
MAAA11	AU21	SA_MA[11]	SA_DQ[7]	AL1	MDA7
MAAA12	AT21	SA_MA[12]			
MAAA13	AW32	SA_MA[13]	SA_DQS[1]	AP3	DQSA1
MAAA14	AU20	SA_MA[14]	SA_DQS[1]	AP2	-DQSA1
MAAA15	AT20	SA_MA[15]			

(7)	-SWEA	AW29	SA_WE#	AN1	MDA8
(7)	-SCASA	AV30	SA_CAS#	AN4	MDA9
(7)	-SRASA	AU28	SA_RAS#	AR3	MDA10

(7)	SBA00	AY29	SA_BS[0]	AN2	MDA11
(7)	SBA01	AW28	SA_BS[1]	AN3	MDA12
(7)	SBA02	AV20	SA_BS[2]	AR2	MDA13
			SA_BS[2]	AR1	MDA15

(7)	-CSA0	AY29	SA_CS#	AW4	DQSA2
(7)	-CSA1	AV32	SA_CS#	AW4	-DQSA2
		AW30	SA_CS#		
		AW33	SA_CS#		

(7)	CKEA0	AV19	SA_CKE[0]	AV2	MDA16
(7)	CKEA1	AT19	SA_CKE[1]	AW3	MDA17
		AU18	SA_CKE[2]	AV5	MDA18
		AV18	SA_CKE[3]	AW5	MDA19

	MODT_A0	AV31	SA_ODT[0]	AU2	MDA20
	MODT_A1	AU32	SA_ODT[1]	AJ3	MDA21
		AU30	SA_ODT[2]	AJ5	MDA22
		AW33	SA_ODT[3]	AU5	MDA23

(7)	DCLKA0	AY25	SA_CK[0]	AV8	DQSA3
(7)	-DCLKA0	AW25	SA_CK[0]	AW8	-DQSA3
(7)	DCLKA1	AU24	SA_CK[1]		
(7)	-DCLKA1	AW25	SA_CK[1]		
		AW27	SA_CK[2]	AY7	MDA24
		AY27	SA_CK[2]	AU7	MDA25
		AV26	SA_CK[3]	AW9	MDA26
		AW26	SA_CK[3]	AW7	MDA27
			SA_CK[3]	AW7	MDA28
			SA_CK[3]	AW9	MDA30
			SA_CK[3]	AY9	MDA31

(7,8) -DDR3_RST ← R240 0/4/SHT/M/X

C97 0.1u/4/X7R/16V/K/X

SM_DRAMRST#

AV13	SA_DQS[8]	AU35	MDA32
AV12	SA_DQS[8]	AW37	MDA33
		AU39	MDA34
		AU36	MDA35
		AW35	MDA36
		AY36	MDA37
		AU37	MDA38
		AU37	MDA39
		AP38	DQSA5
		AP39	-DQSA5

AR40	MDA40	SA_DQ[40]
AR37	MDA41	SA_DQ[41]
AN38	MDA42	SA_DQ[42]
AN37	MDA43	SA_DQ[43]
AR39	MDA44	SA_DQ[44]
AR38	MDA45	SA_DQ[45]
AN39	MDA46	SA_DQ[46]
AN40	MDA47	SA_DQ[47]

AK38	DQSA6	SA_DQS[6]
AK39	-DQSA6	SA_DQS[6]

AL40	MDA48	SA_DQ[48]
AL37	MDA49	SA_DQ[49]
AJ38	MDA50	SA_DQ[50]
AJ37	MDA51	SA_DQ[51]
AL39	MDA52	SA_DQ[52]
AL38	MDA53	SA_DQ[53]
AJ39	MDA54	SA_DQ[54]
AJ40	MDA55	SA_DQ[55]

AF38	DQSA7	SA_DQS[7]
AF39	-DQSA7	SA_DQS[7]

AG40	MDA56	SA_DQ[56]
AG37	MDA57	SA_DQ[57]
AE38	MDA58	SA_DQ[58]
AE37	MDA59	SA_DQ[59]
AG39	MDA60	SA_DQ[60]
AG38	MDA61	SA_DQ[61]
AE39	MDA62	SA_DQ[62]
AE40	MDA63	SA_DQ[63]

DDR_0

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LGA1155[10SC1-F01155-01R_10SC1-F01155-02R]

CPUB

MAAB0	AK24	SB_MA[0]	AH7	DQSB0
MAAB1	AM20	SB_MA[1]	AH6	-DQSB0
MAAB2	AM19	SB_MA[2]		
MAAB3	AK18	SB_MA[3]		
MAAB4	AP19	SB_MA[4]	AG7	MDB0
MAAB5	AP18	SB_MA[5]	AG8	MDB1
MAAB6	AM18	SB_MA[6]	AJ9	MDB2
MAAB7	AL18	SB_MA[7]	AJ8	MDB3
MAAB8	AN18	SB_MA[8]	AG5	MDB4
MAAB9	AY17	SB_MA[9]	AG6	MDB5
MAAB10	AN23	SB_MA[10]	AJ6	MDB6
MAAB11	AU17	SB_MA[11]	AJ7	MDB7
MAAB12	AT18	SB_MA[12]		
MAAB13	AR26	SB_MA[13]	AM8	DQSB1
MAAB14	AY16	SB_MA[14]	AL8	-DQSB1
MAAB15	AV16	SB_MA[15]		

(8)	-SWEB	AR25	SB_WE#	AL7	MDB8
(8)	-SCASB	AK25	SB_CAS#	AM7	MDB9
(8)	-SRASB	AP24	SB_RAS#	AM10	MDB10

(8)	SBAB0	AP23	SB_BS[0]	AL6	MDB12
(8)	SBAB1	AM24	SB_BS[1]	AL9	MDB14
(8)	SBAB2	AW17	SB_BS[2]	AM9	MDB15

(8)	-CSB0	AN25	SB_CS#	AR8	DQSB2
(8)	-CSB1	AN26	SB_CS#	AP8	-DQSB2
		AL25	SB_CS#		
		AT26	SB_CS#		

(8)	CKEB0	AU16	SB_CKE[0]	AP7	MDB16
(8)	CKEB1	AY15	SB_CKE[1]	AR7	MDB17
		AW15	SB_CKE[2]	AP10	MDB18
		AV15	SB_CKE[3]	AR10	MDB19

	MODT_B0	AL26	SB_ODT[0]	AP6	MDB20
	MODT_B1	AP26	SB_ODT[1]	AR6	MDB21
		AM26	SB_ODT[2]	AR9	MDB22
		AK26	SB_ODT[3]	AR9	MDB23

			SB_DQS[3]	AN13	DQSB3
			SB_DQS[3]	AN12	-DQSB3

(8)	DCLKB0	AL21	SB_CK[0]	AM12	MDB24
(8)	-DCLKB0	AL22	SB_CK[0]	AM13	MDB25
(8)	DCLKB1	AK20	SB_CK[1]	AR13	MDB26
(8)	-DCLKB1	AK20	SB_CK[1]	AP13	MDB27

		AL23	SB_CK[2]	AL12	MDB28
		AM22	SB_CK[2]	AL13	MDB29
		AP21	SB_CK[3]	AR12	MDB30
		AN21	SB_CK[3]	AP12	MDB31

			SB_DQS[4]	AN29	DQSB4
			SB_DQS[4]	AN28	-DQSB4

(8)	VREF_DQB	AH1	FC_AH1		
(7)	VREF_DOA	AH4	FC_AH4		

			SB_DQ[32]	AR28	MDB32
			SB_DQ[33]	AR29	MDB33
			SB_DQ[34]	AL28	MDB34
			SB_DQ[35]	AL29	MDB35
			SB_DQ[36]	AP28	MDB36
			SB_DQ[37]	AP29	MDB37
			SB_DQ[38]	AM28	MDB38
			SB_DQ[39]	AM29	MDB39

			SB_DQS[5]	AP33	DQSB5
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			SB_ECC_CB[0]		
			SB_ECC_CB[1]		
			SB_ECC_CB[2]		
			SB_ECC_CB[3]		
			SB_ECC_CB[4]		
			SB_ECC_CB[5]		
			SB_ECC_CB[6]		
			SB_ECC_CB[7]		

			SB_DQ[40]	AP32	MDB40
			SB_DQ[41]	AP35	MDB42
			SB_DQ[42]	AP34	MDB43
			SB_DQ[43]	AR32	MDB44
			SB_DQ[44]	AR31	MDB45
			SB_DQ[45]	AR35	MDB46
			SB_DQ[46]	AR34	MDB47
			SB_DQ[47]		

			AL33	DQSB6	
			AM33	-DQSB6	

			SB_DQS[6]		
			SB_DQS[6]		

			SB_DQ[48]	AM32	MDB48
			SB_DQ[49]	AM31	MDB49
			SB_DQ[50]	AL35	MDB50
			SB_DQ[51]	AL32	MDB51
			SB_DQ[52]	AM34	MDB52
			SB_DQ[53]	AL31	MDB53
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			AG35	DQSB7	
			AG34	-DQSB7	

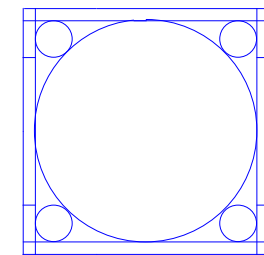
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			SB_DQ[56]	AH35	MDB56
			SB_DQ[57]	AH34	MDB57
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			SB_DQ[59]	AE35	MDB59
			SB_DQ[60]	AJ35	MDB60
			SB_DQ[61]	AJ34	MDB61
			SB_DQ[62]	AF33	MDB62
			SB_DQ[63]	AF35	MDB63

DDR_1

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LGA1155[10SC1-F01155-01R_10SC1-F01155-02R]

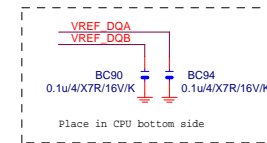
CR
CPU RETENTION/X

Need check the new CPU ME

CPU

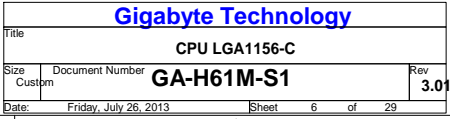


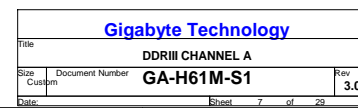
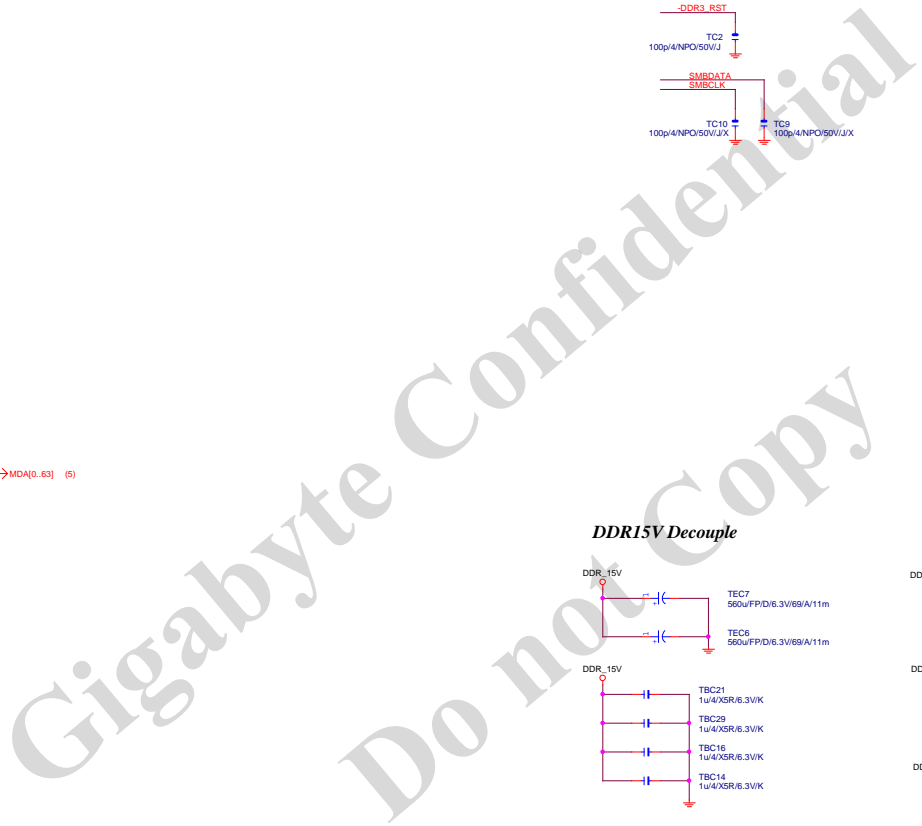
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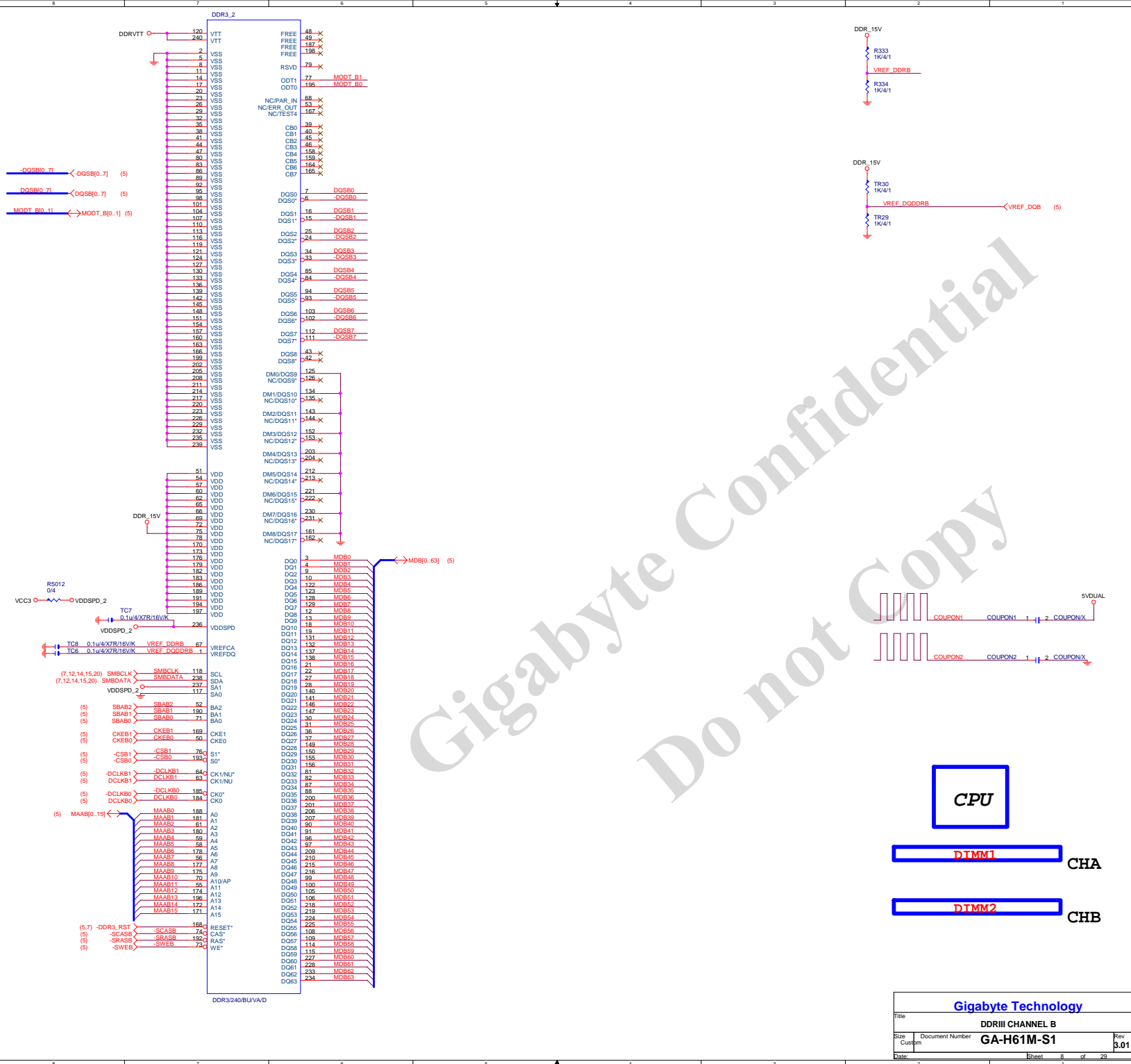


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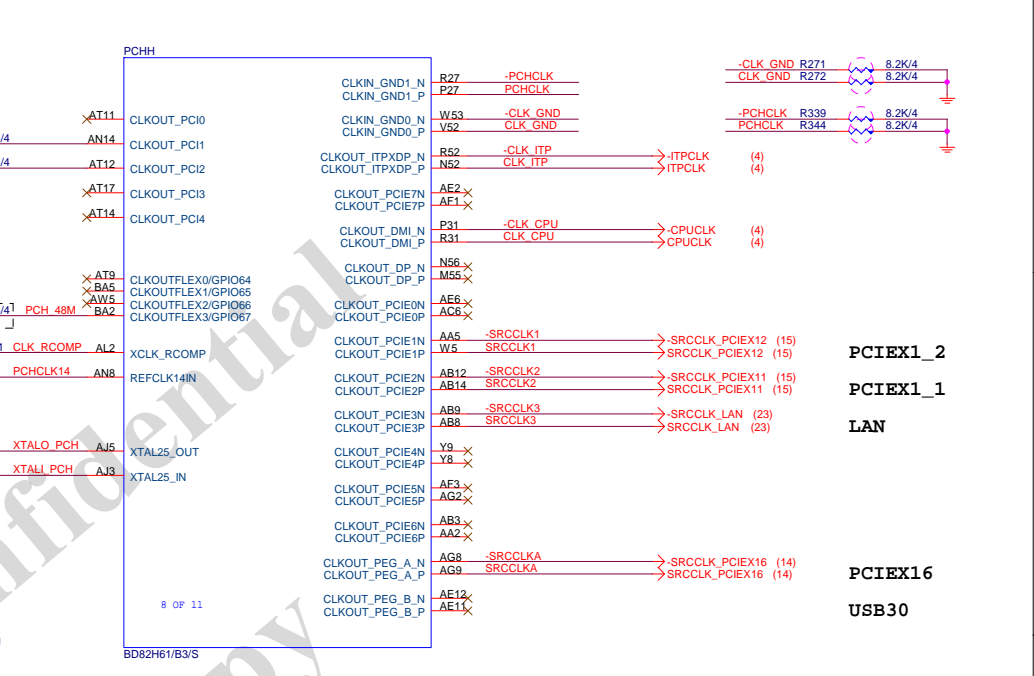
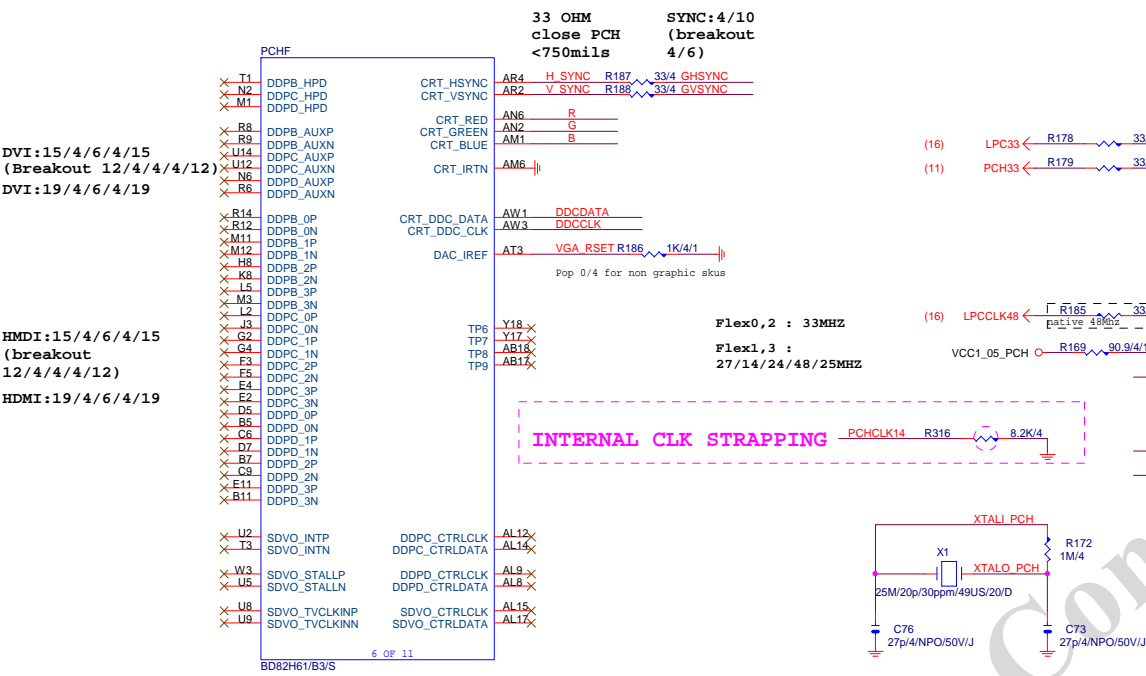




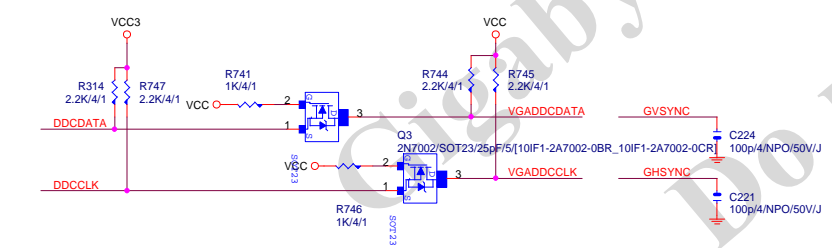


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(Breakout 12/4/4/4/12)
DVI:19/4/6/4/19

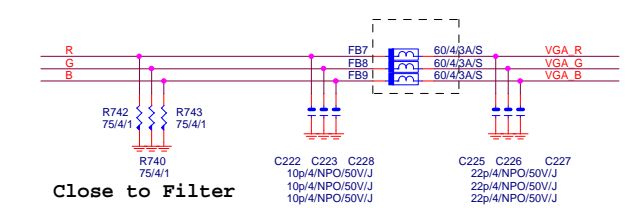
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(breakout
12/4/4/4/12)
HDMI:19/4/6/4/19



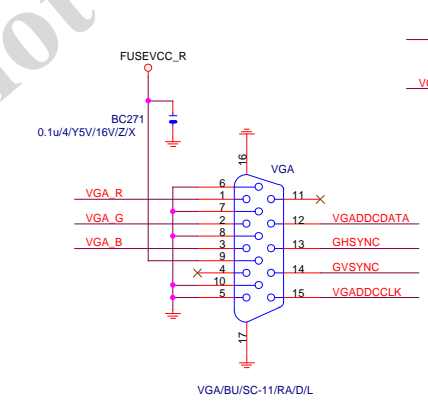
VGA DDC



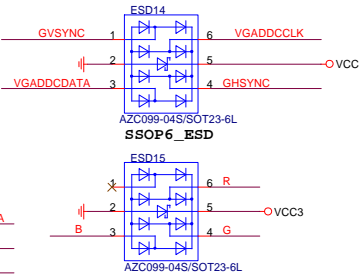
VGA DDC



VGA CONNECTOR

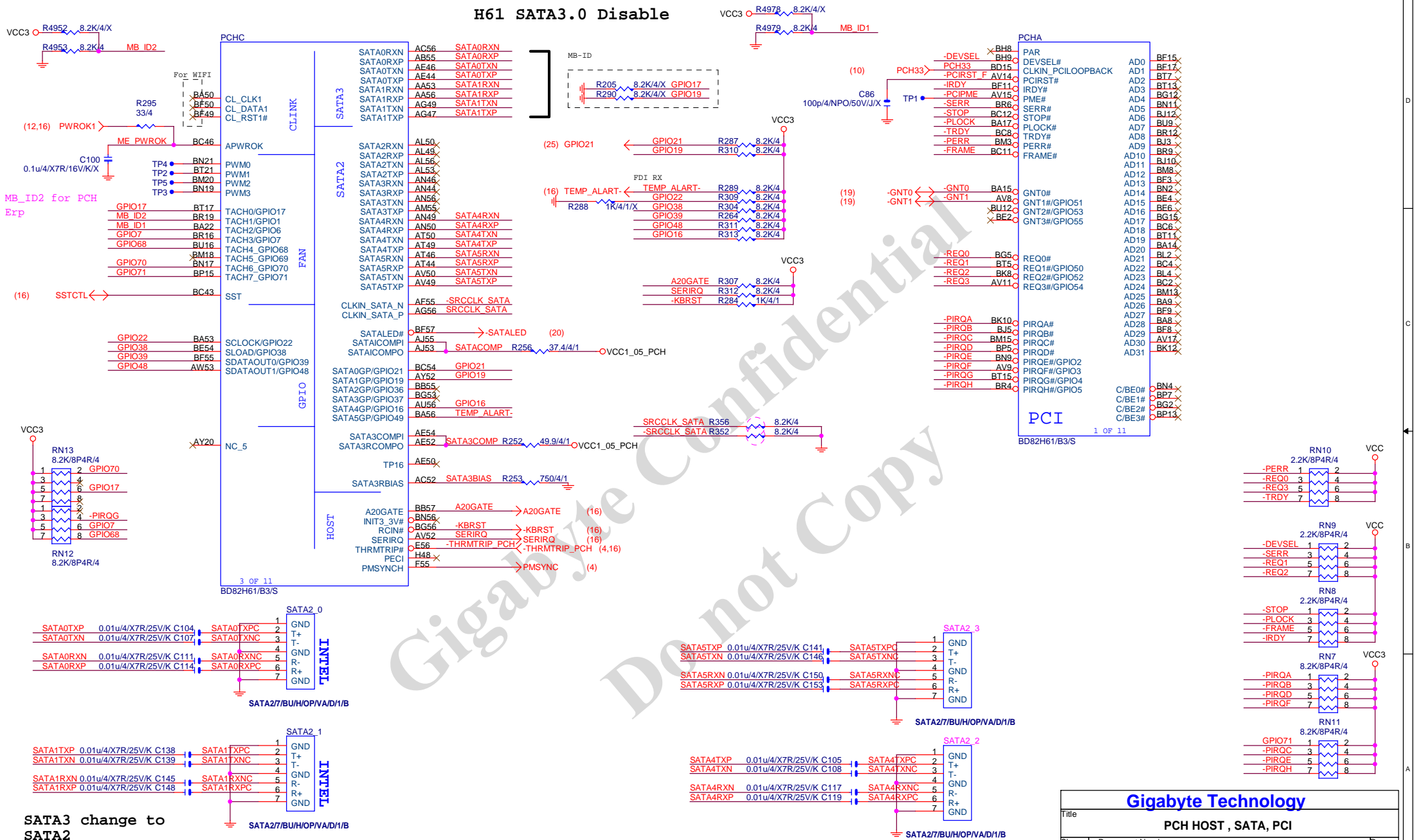


VGA ESD



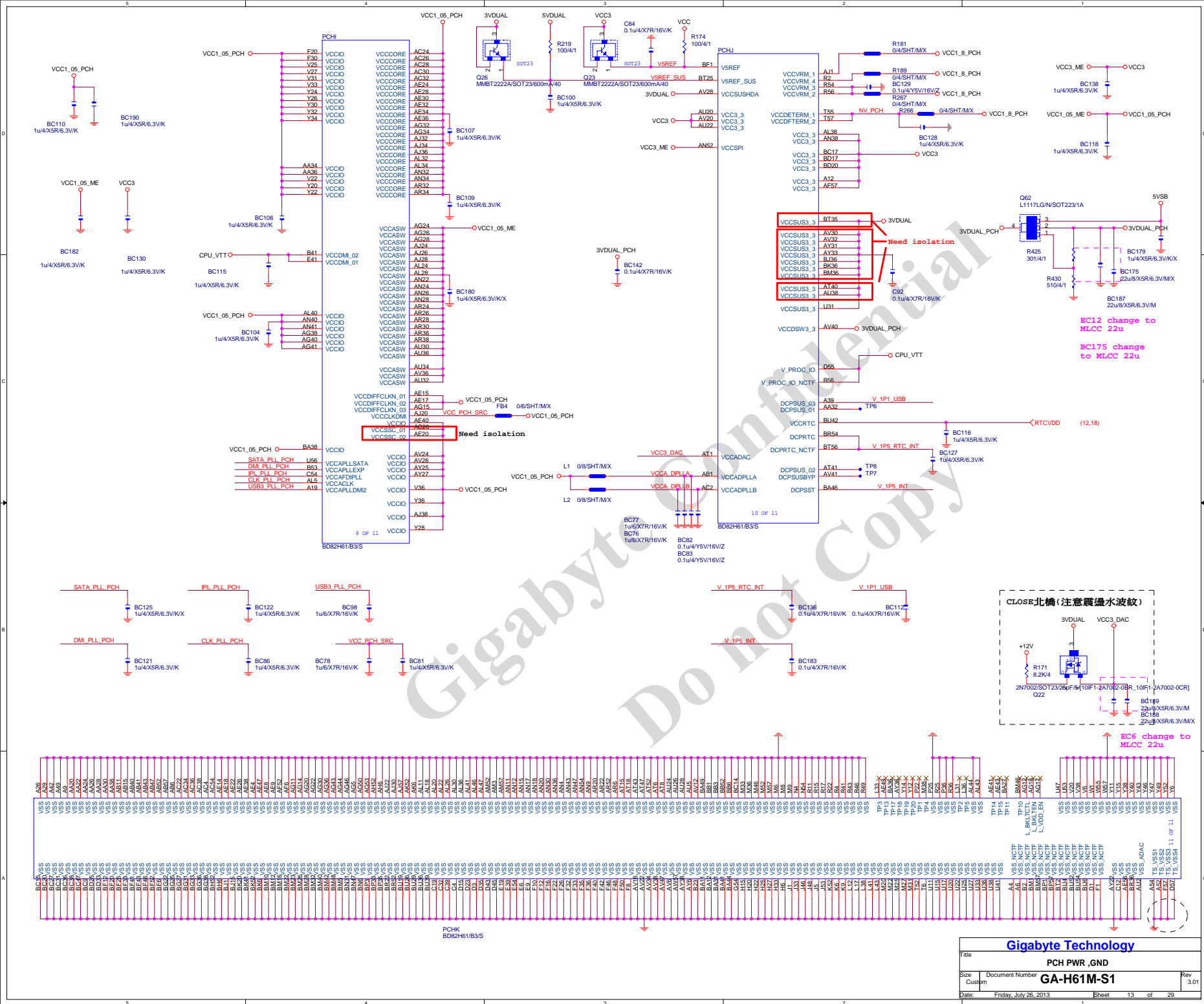
Gigabyte Technology			
Title			
PCH DISPLAY ,CLK BUFFER			
Size	Document Number	GA-H61M-S1	
Custom			Rev 3.01
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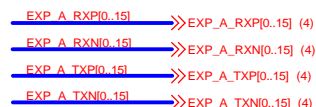
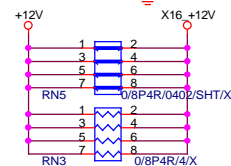
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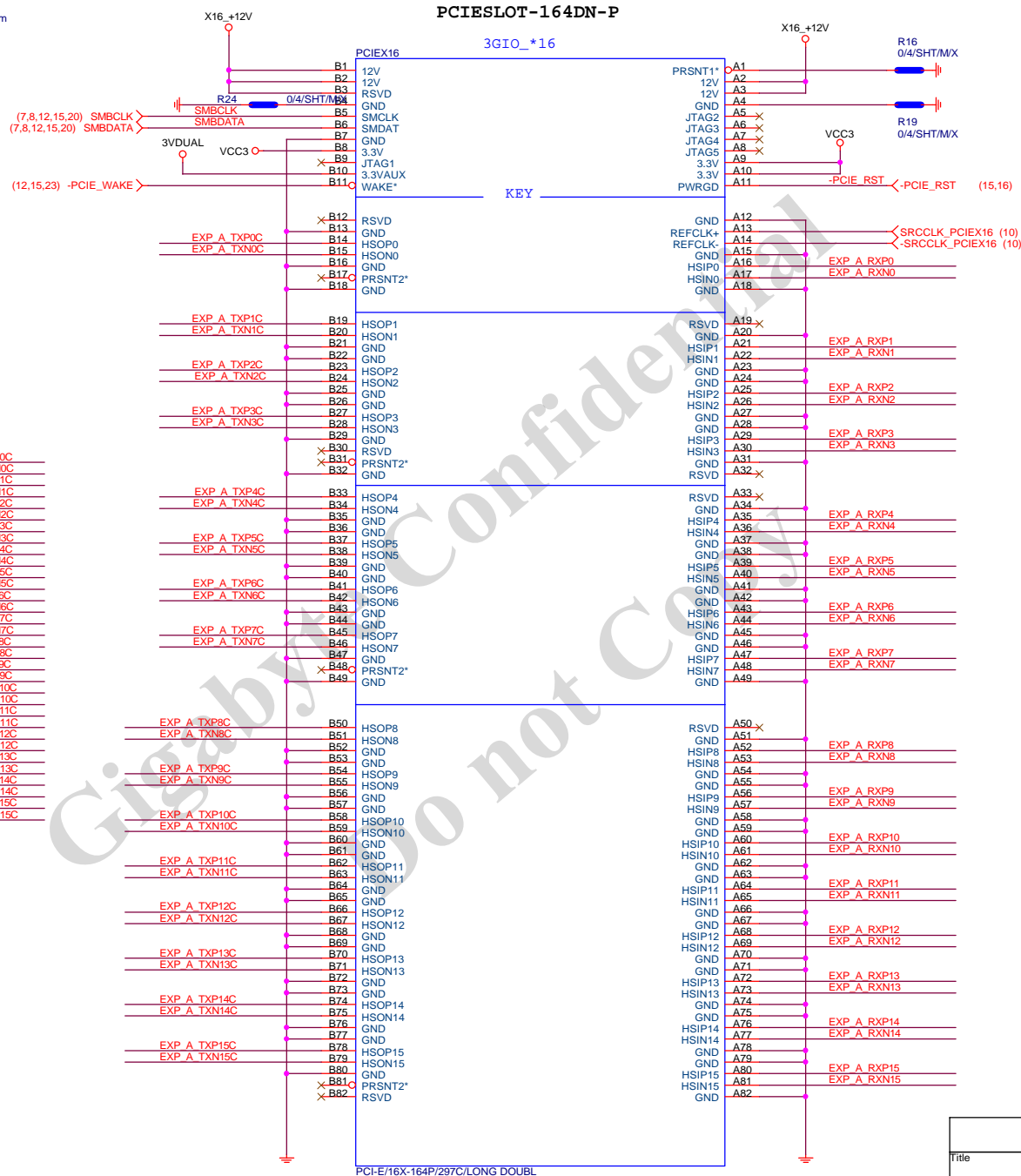
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Gigabyte Technology		
PCH HOST , SATA, PCI		
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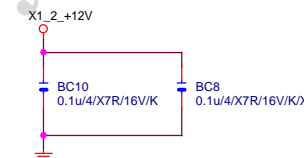
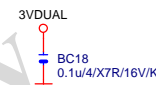
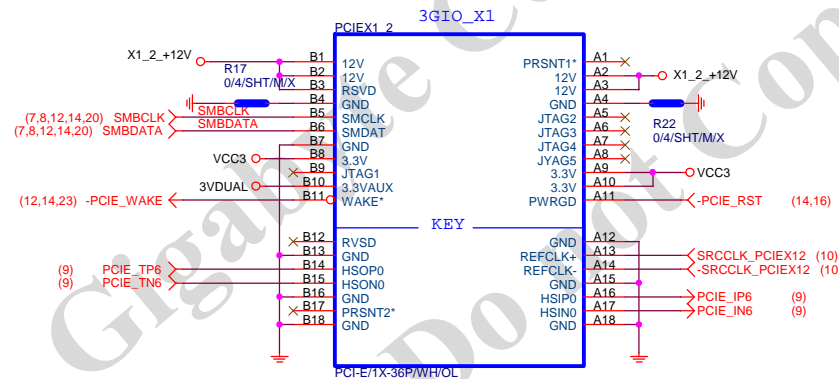
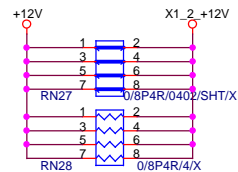
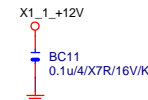
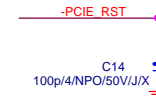
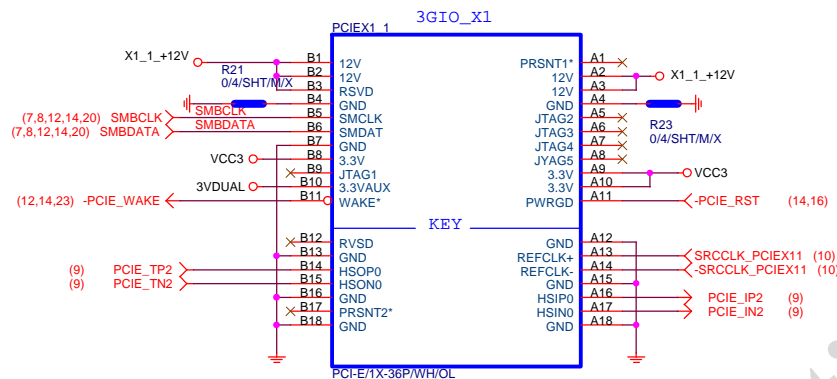
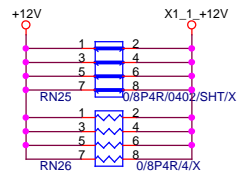
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EXP A TXP2	C33	0.22u4/X5R/6.3V/K	EXP A TXP2C
EXP A TXN2	C35	0.22u4/X5R/6.3V/K	EXP A TXN2C
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EXP A TXP6	C56	0.22u4/X5R/6.3V/K	EXP A TXP6C
EXP A TXN6	C58	0.22u4/X5R/6.3V/K	EXP A TXN6C
EXP A TXP7	C60	0.22u4/X5R/6.3V/K	EXP A TXP7C
EXP A TXN7	C61	0.22u4/X5R/6.3V/K	EXP A TXN7C
EXP A TXP8	C63	0.22u4/X5R/6.3V/K	EXP A TXP8C
EXP A TXN8	C64	0.22u4/X5R/6.3V/K	EXP A TXN8C
EXP A TXP9	C66	0.22u4/X5R/6.3V/K	EXP A TXP9C
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EXP A TXN12	C75	0.22u4/X5R/6.3V/K	EXP A TXN12C
EXP A TXP13	C77	0.22u4/X5R/6.3V/K	EXP A TXP13C
EXP A TXN13	C78	0.22u4/X5R/6.3V/K	EXP A TXN13C
EXP A TXP14	C79	0.22u4/X5R/6.3V/K	EXP A TXP14C
EXP A TXN14	C80	0.22u4/X5R/6.3V/K	EXP A TXN14C
EXP A TXP15	C82	0.22u4/X5R/6.3V/K	EXP A TXP15C
EXP A TXN15	C83	0.22u4/X5R/6.3V/K	EXP A TXN15C



PCI-E/16X-164P/297C/LONG DOUBL

PCI-E/16X-164P/297C/LONG DOUBL

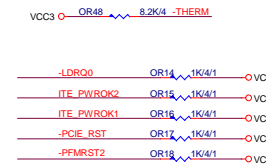
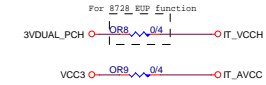
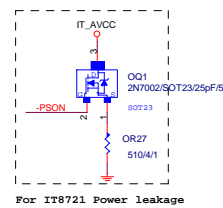
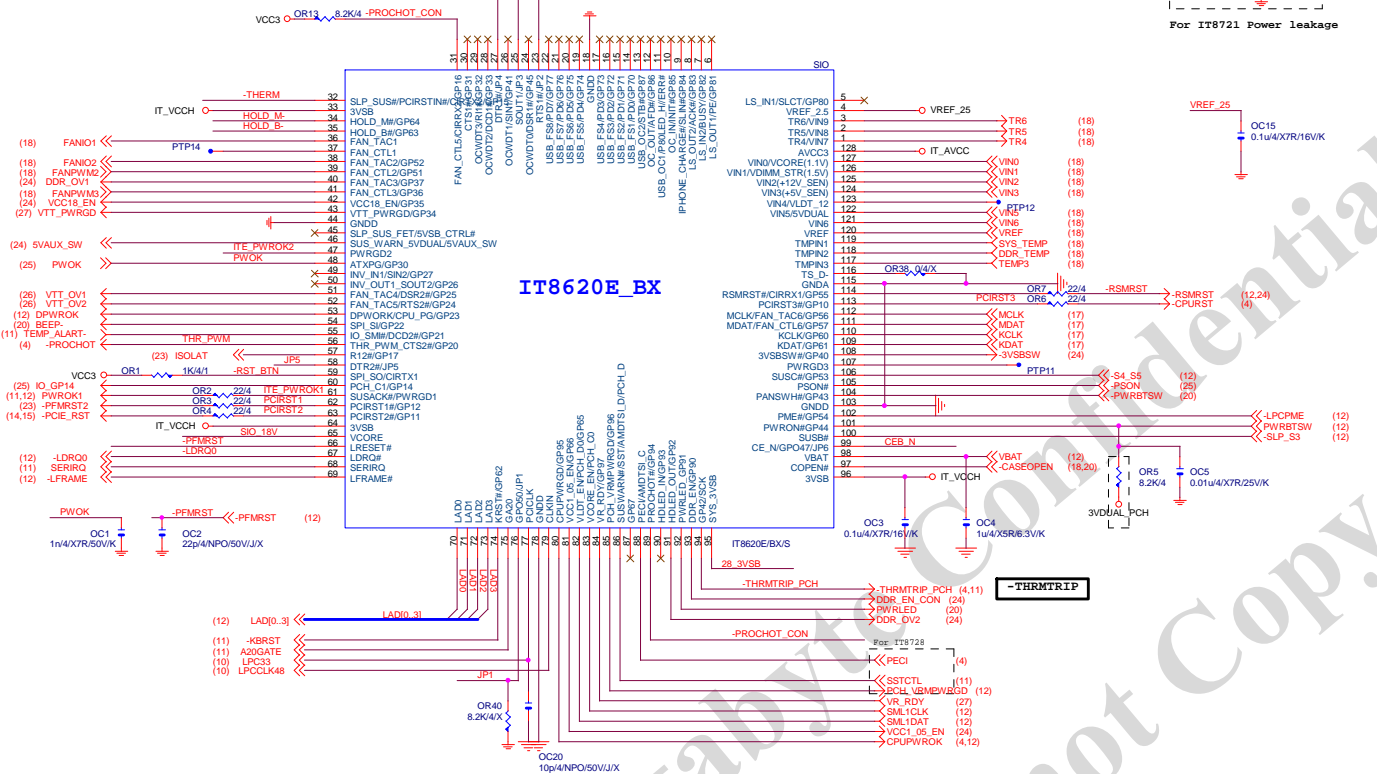
PCIE*1



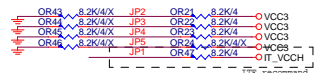
Gigabyte Technology

Title			
PCIEX1,X2/CLK GEN			
Size	Document Number	Rev	
Custom	GA-H61M-S1	3.01	
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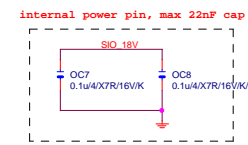
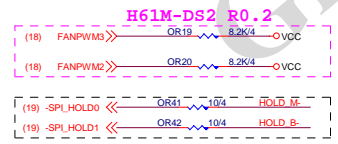
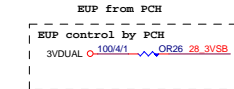
GP22 Default GP22 DIOD8
GP23 Default CPU_PG DOD8



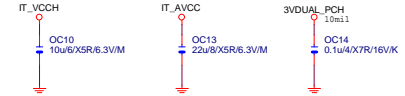
H61M-S2 1.1 JP6 stuff
pull down



JP3--- High SPI-Flash Disable
Low SPI-Flash Enable



Pin	IT8728
Pin121	VCC3_RN/PCH_D0
Pin120	VLDY_BN/PCH_D0
Pin119	ATXPG
Pin121	PCH_CL
Pin153	SST/AMTSL_D/MTB8/PCH_D1
Pin155	PBCL/AMTSL_C/SRV8
Pin166	SYS_3VSB
Pin170	GP47
Pin195	VIN2(VCC5)
Pin196	VIN1(VCC12)
Pin197	VIN1/VDIMM_STK(1.5V)
Pin198	VINO(VCORE(1.1V)/NC)

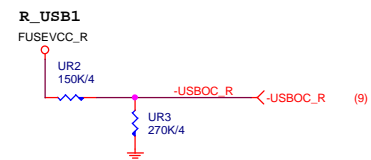
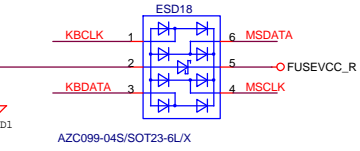


COM

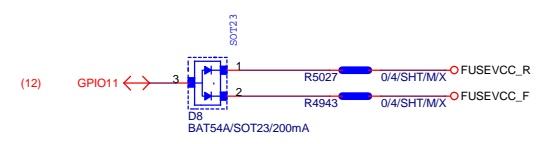
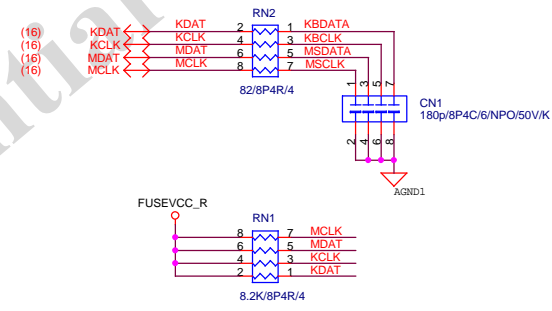
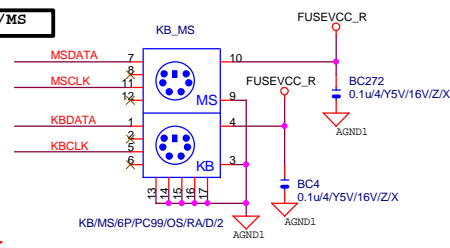
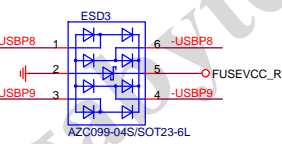
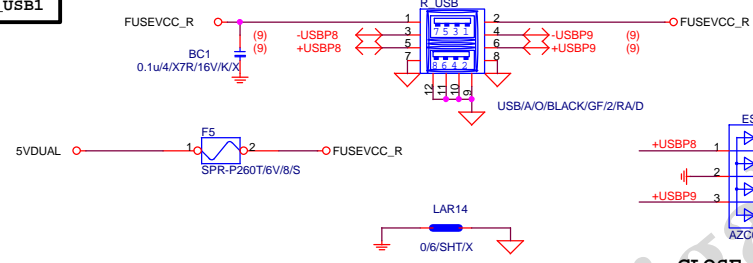
COM RI

KB/MS

H61M-DS2 R0.2



R_USB1

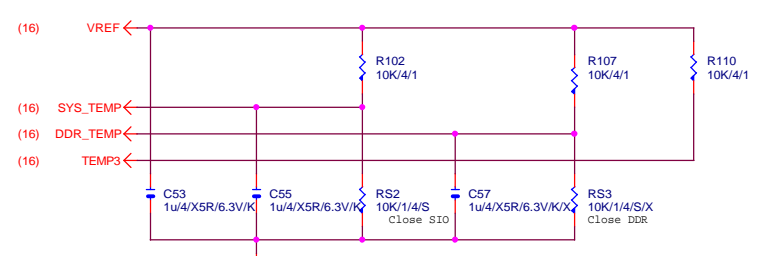


FOR FUSE SHORT GPIO

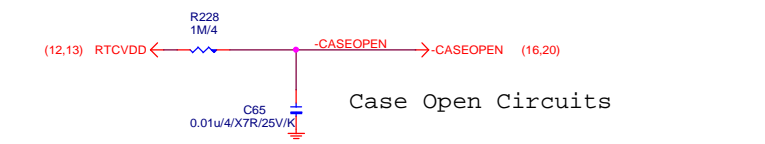
Gigabyte Technology

Title			
-RI,KB_USB,USB_ESATA,-PROCHOT			
Size	Document Number	Rev	
Custom	GA-H61M-S1	3.01	
Date:	Friday, July 26, 2013	Sheet	17 of 29

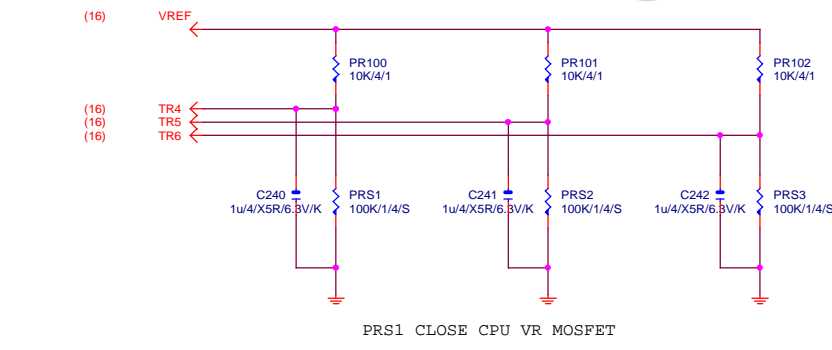
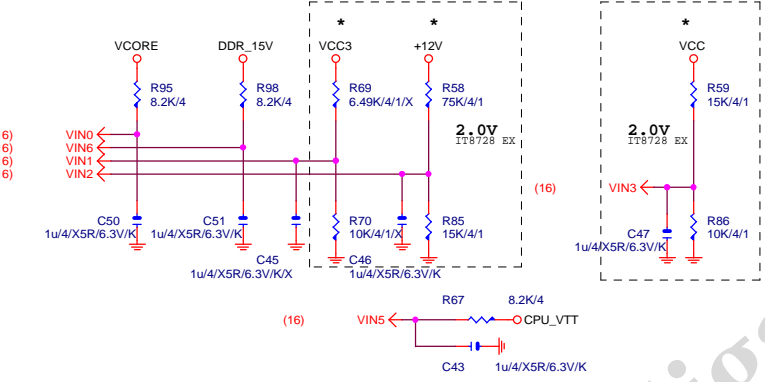
TEMP H/W MONITOR



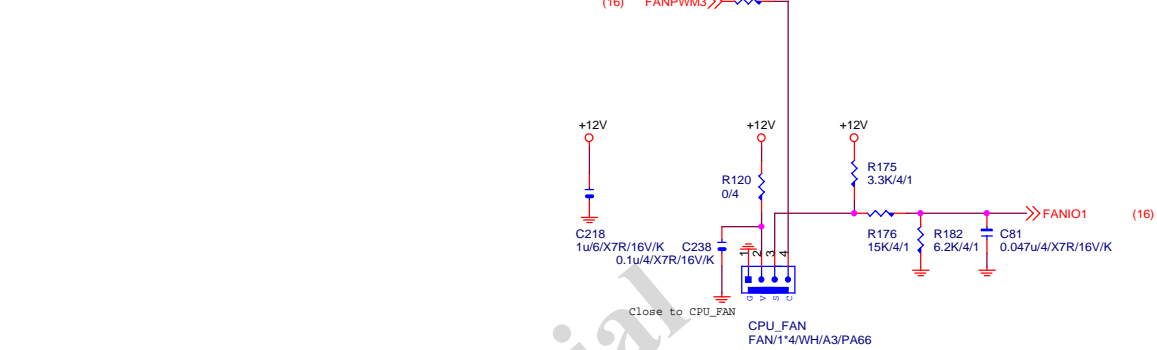
CASE OPEN



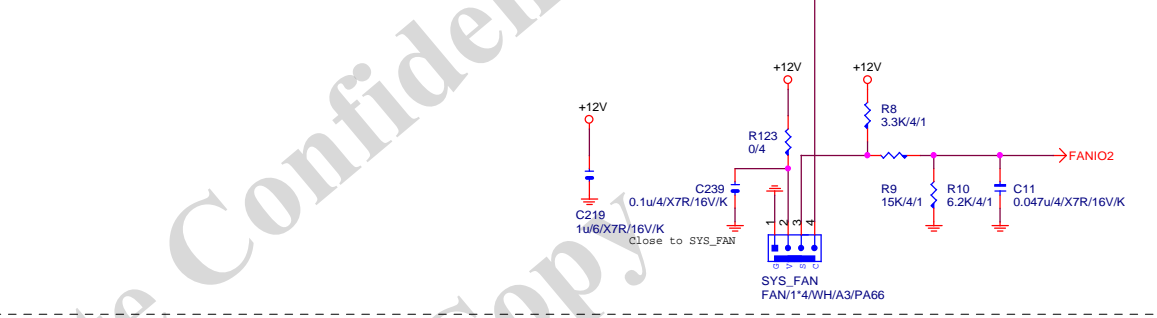
VOLTAGE-- H/W MONITOR



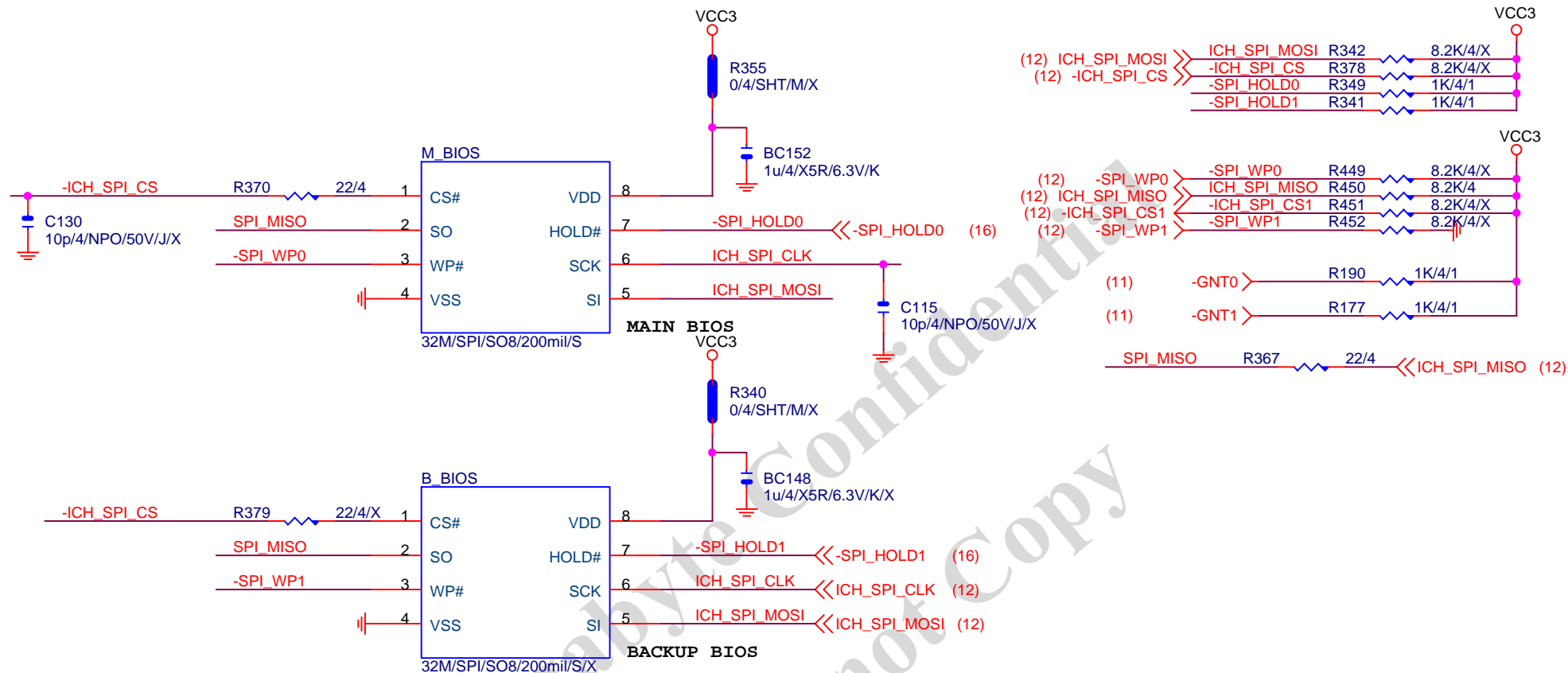
CPU SMART FAN



SYS SMART FAN



DUAL BIOS



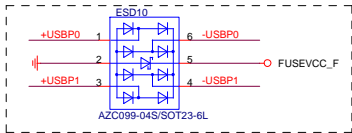
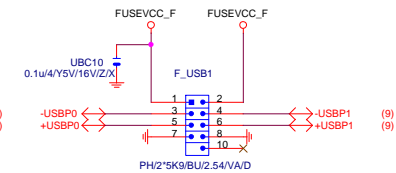
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating
0 means PD 1K

Gigabyte Technology

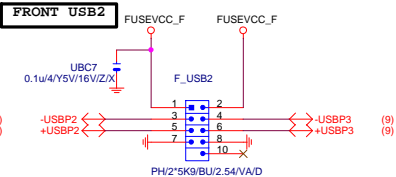
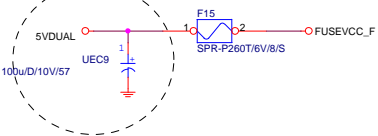
Title		
SINGLE BIOS		
Size A	Document Number	Rev
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FRONT USB1

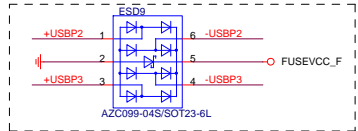


Close to connector

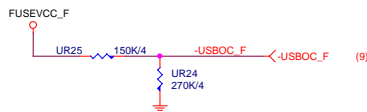
CLOSE F_USB1



FRONT USB3



Close to connector

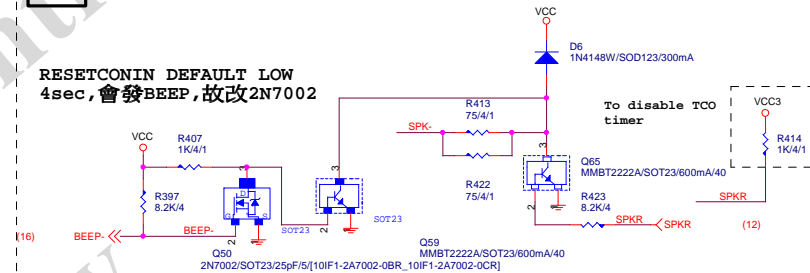


SATA LED



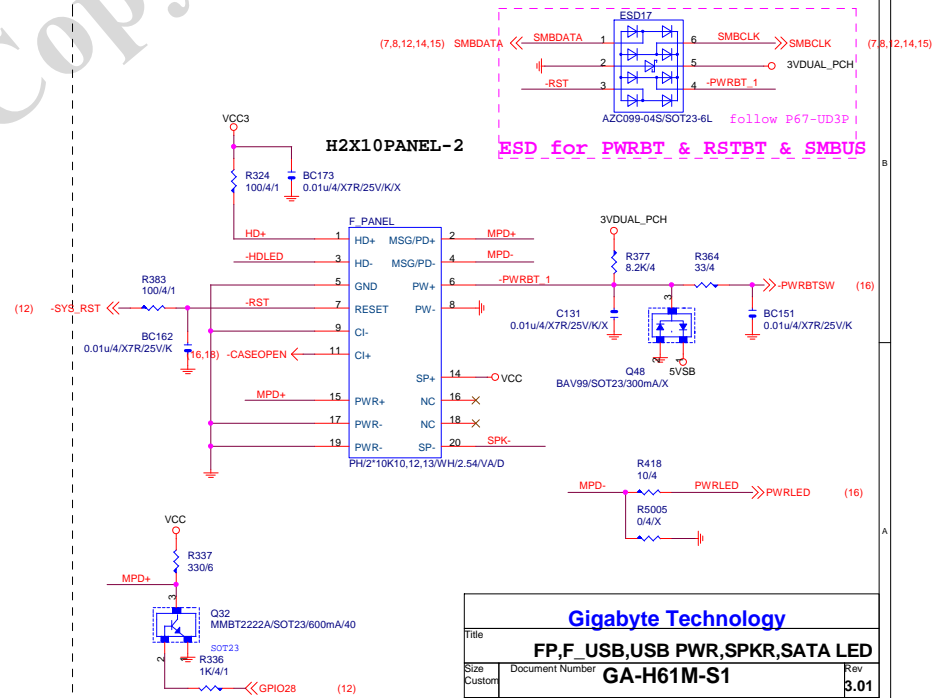
SPKR

RESETCONIN DEFAULT LOW
4sec, 會發BEEP, 故改2N7002



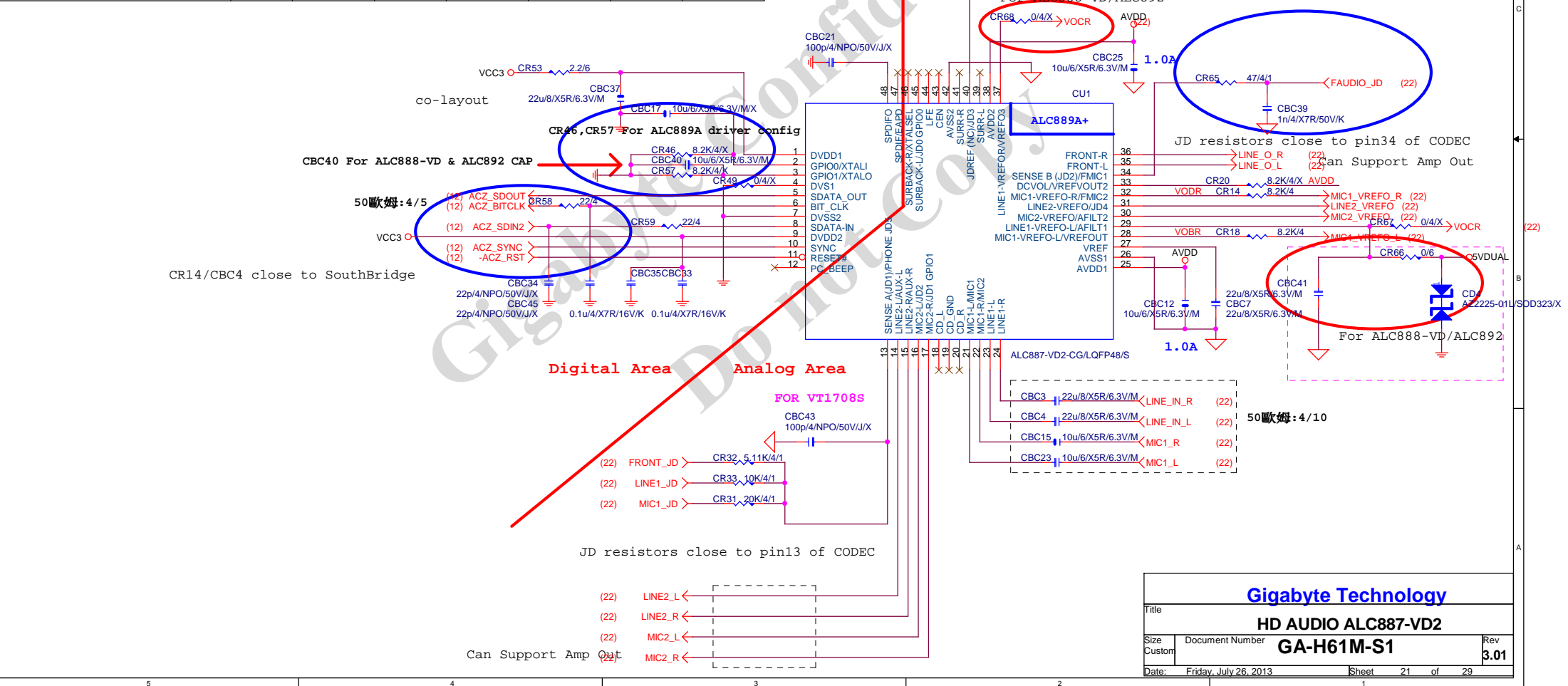
INTEL FRONT PANEL

H2X10PANEL-2

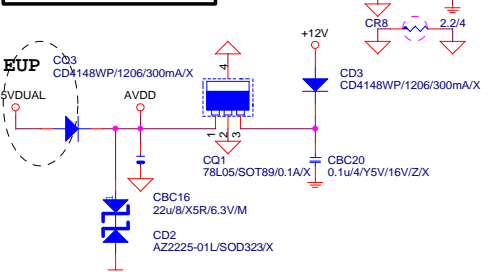


Gigabyte Technology			
Title	FP,F_USB,USB PWR,SPKR,SATA LED		
Size	Document Number	Rev	
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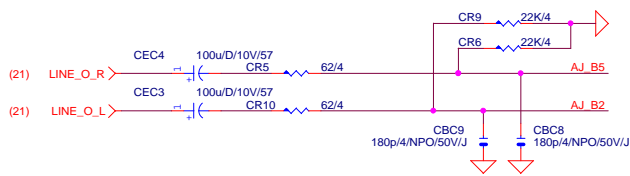
	ALC883	ALC888-VA	ALC888B	ALC888-VD	ALC892R	ALC889	ALC889A
CR46	X	X	X	X	X	X	O
CR57	X	X	X	X	X	X	O
CR49	O	O	X	X	X	O	O
CBC40	X	X	X	10uF/X5R	10uF/X5R	X	X
CR20	O	X	X	X	X	X	X
CR26	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/0.1%
CR47	X	X	O	X	O	O	X
CR48	O	O	X	O	X	X	O
CBC2/CBC4/CBC5/ CBC6/CBC10/CBC11	4.7uF /X5R	4.7uF /X5R	4.7uF /X5R	4.7uF /X5R	4.7uF /X5R	10uF /X5R	4.7uF /X5R
CR1/CR3/CR10/CR12/ CR15/CR19/CR56/CR27/ CR55/CR37/CR28/CR34/ CR6/CR9/CR51/CR61	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	66 ohm or lower	75 ohm
CR66/CR68/CD3/CBC41	X	X	X	O	X	X	X
CR67/CD1/CD2/CQ3/CQ5	O	O	O	X	O	O	O



CODEC POWER/EMI PAD

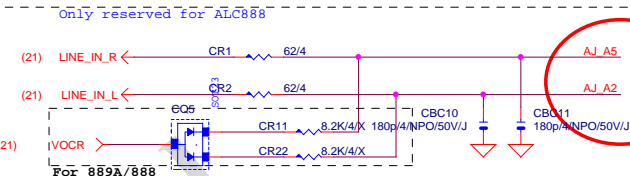


LINE-OUT

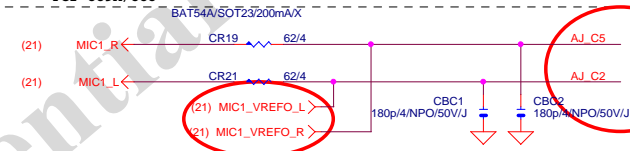


LINE-IN

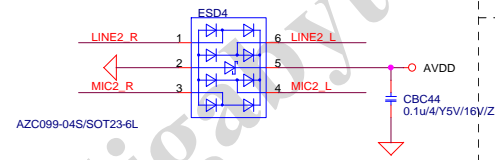
Verify MIC function in LINE-in



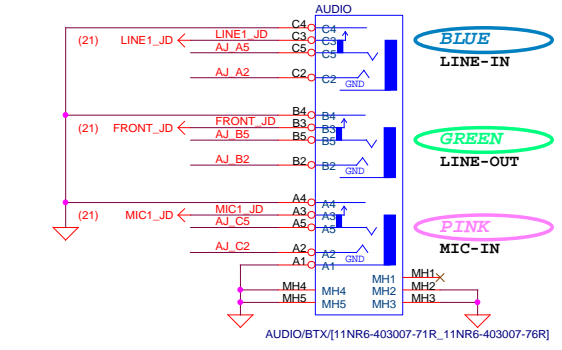
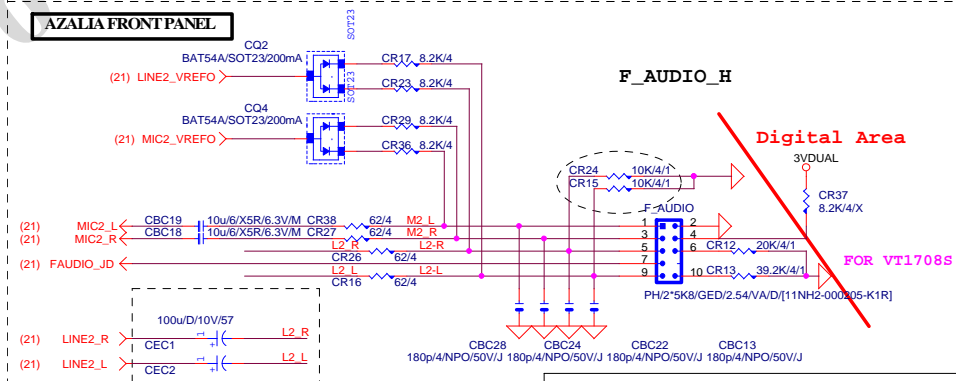
MIC-IN



AZALIA JACK



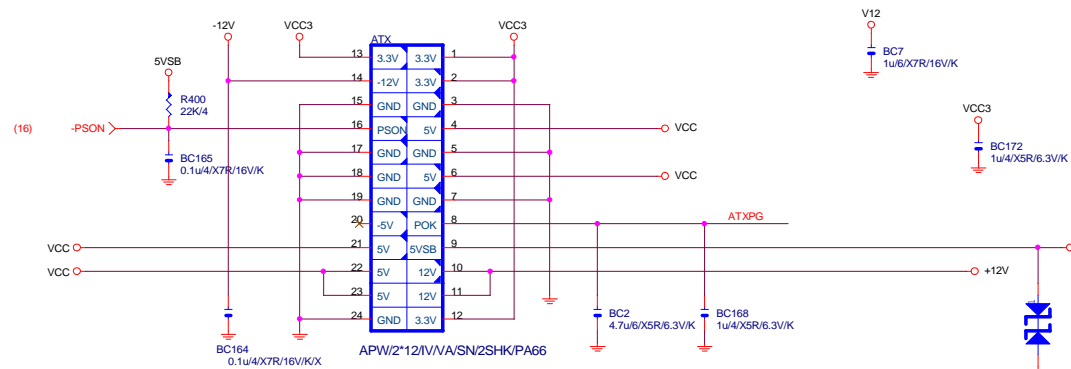
AZALIA FRONT PANEL



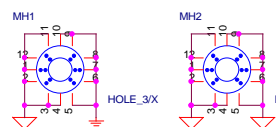
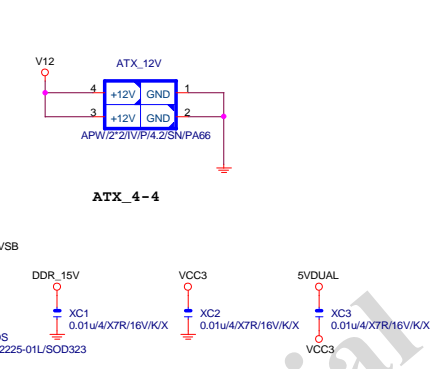
Gigabyte Technology			
Title			
AUDIO JACK			
Size	Document Number	GA-H61M-S1	Rev
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Gigabyte Technology			
Title			
DISCRETE POWER			
Size C	Document Number GA-H61M-S1		Rev 3.01
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ATXX24 POWER CONNECTOR

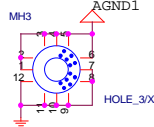


ATXX4 POWER CONNECTOR



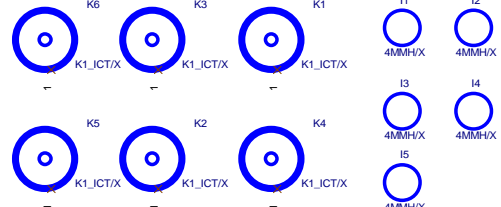
HOLE_4-RH-1

HOLE_4-RH-5MM-1



HOLE_4-RH-5MM-1

HOLE_4-RH-5MM-1



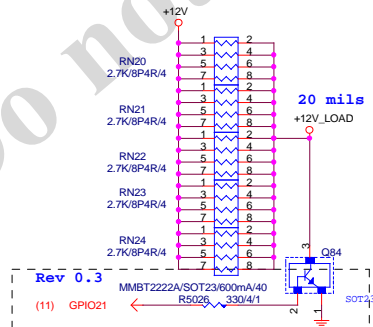
To prevent the 5VSB under loading when boot

5VDUAL1(USB PORT/DDRIII POWER)
5VDUAL(3VDUAL/OTHER)

-S_WARN-->5VDUAL1-->-S_ACK(PCH)-->-DEPSLP/-RSMRST-->5VDUAL-->3VDUAL

【技術通報R&D技術通報153】

To fix 12V light load abnormal issue



Rev 0.3

(11) GPIO21

CPU_VTT

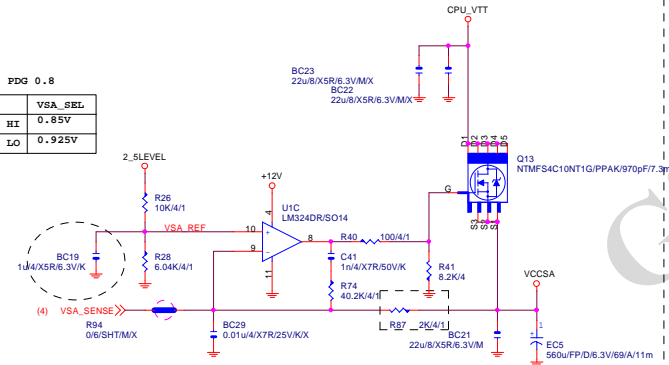
VTT_EN	
HI	ENABLE
LO	DISABLE

VTT OV option

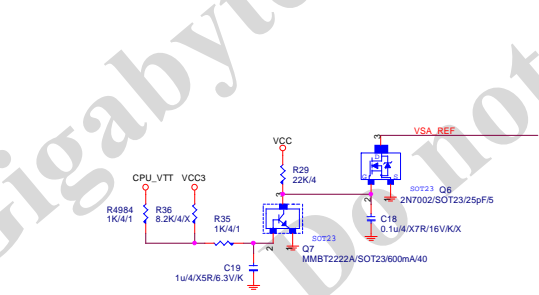


VCCSA

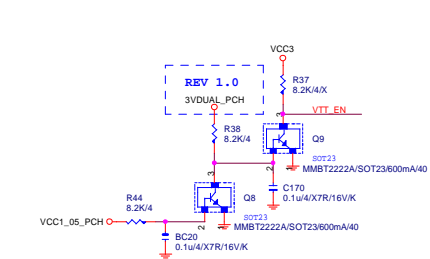
PdG 0.8	VSA_SEL
HI	0.85V
LO	0.925V



VCCSA PWR SEQ



CPU_VTT PWR SEQ

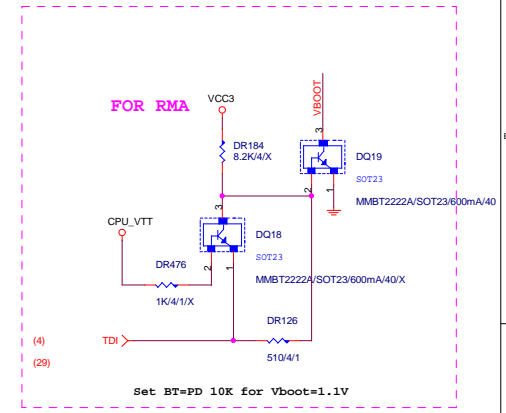
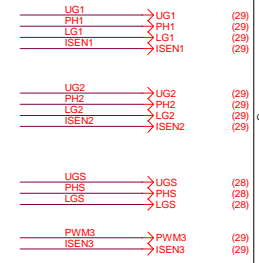
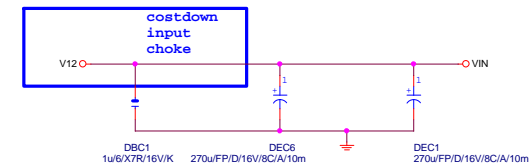
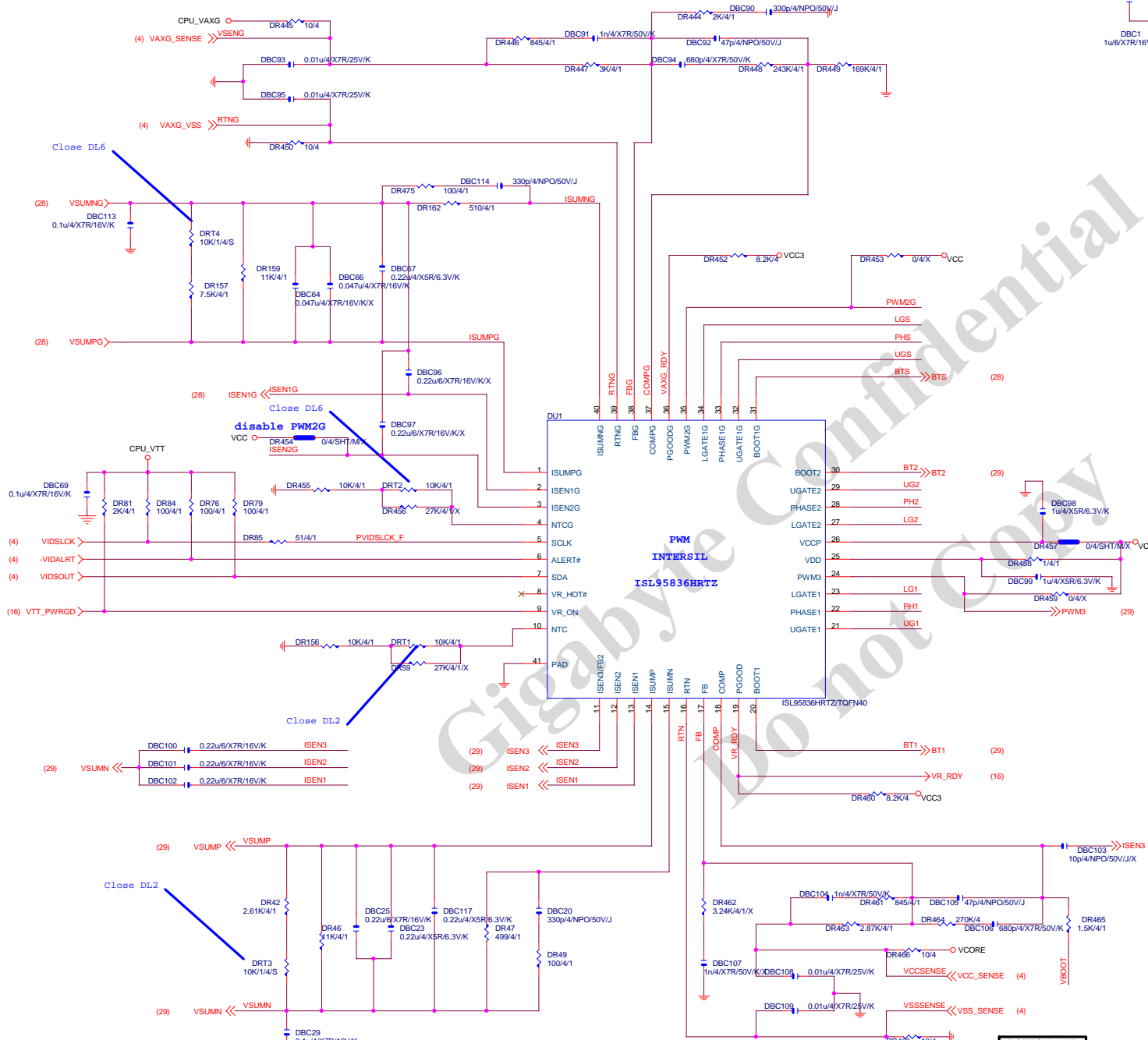


GIGABYTE™

Title CPU_VTT PWM_ISL95870CRZ

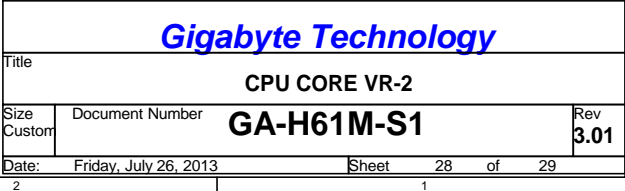
Size Custom Document Number GA-H61M-S1

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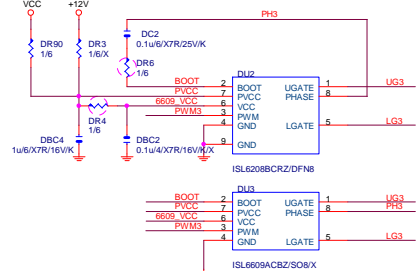
BOTTOM PAD
CONNECT TO
GND
THROUGH 10
VIA

Gigabyte Technology		
Title	CPU CORE VR-1	
Size	Document Number	Rev
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Pop 1SL6625CB for PBZ
[1SL6625CBZ/S08]



6609 colay with 6208

