



Model Name: GA-H61M-S2-B3

Revision 1.0

SHEET

TITLE

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	PCI EXPRESS*1x2 SLOT / CLOCK GEN.
17	ITE 8728 LPC IO
18	COMA,KB_MS,R_USB,-PROCHOT
19	HWM,FAN CTRL,OV
20	DUAL BIOS
21	FP,FUSB,SPK,SATALED
22	ALC888B-VD2
23	REAR AUDIO JACK
24	ATHEROS AR8151/USB_LAN
25	DISCRETE POWER
26	ATX,-S_WARN,-S_ACK,5VDUAL1
27	ISL95870_CPU_VTT

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

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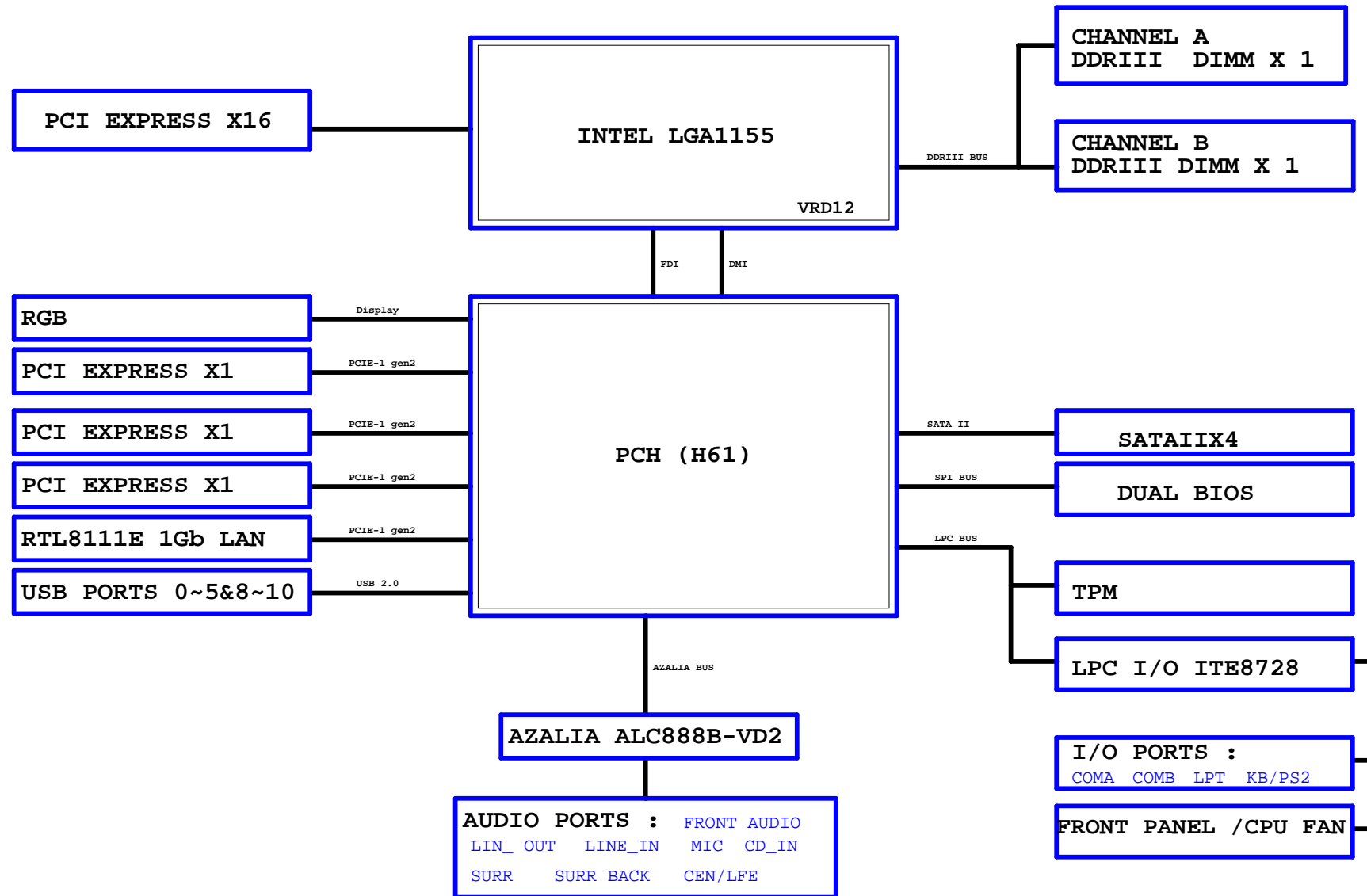
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Revision 1.0

2011/03/11

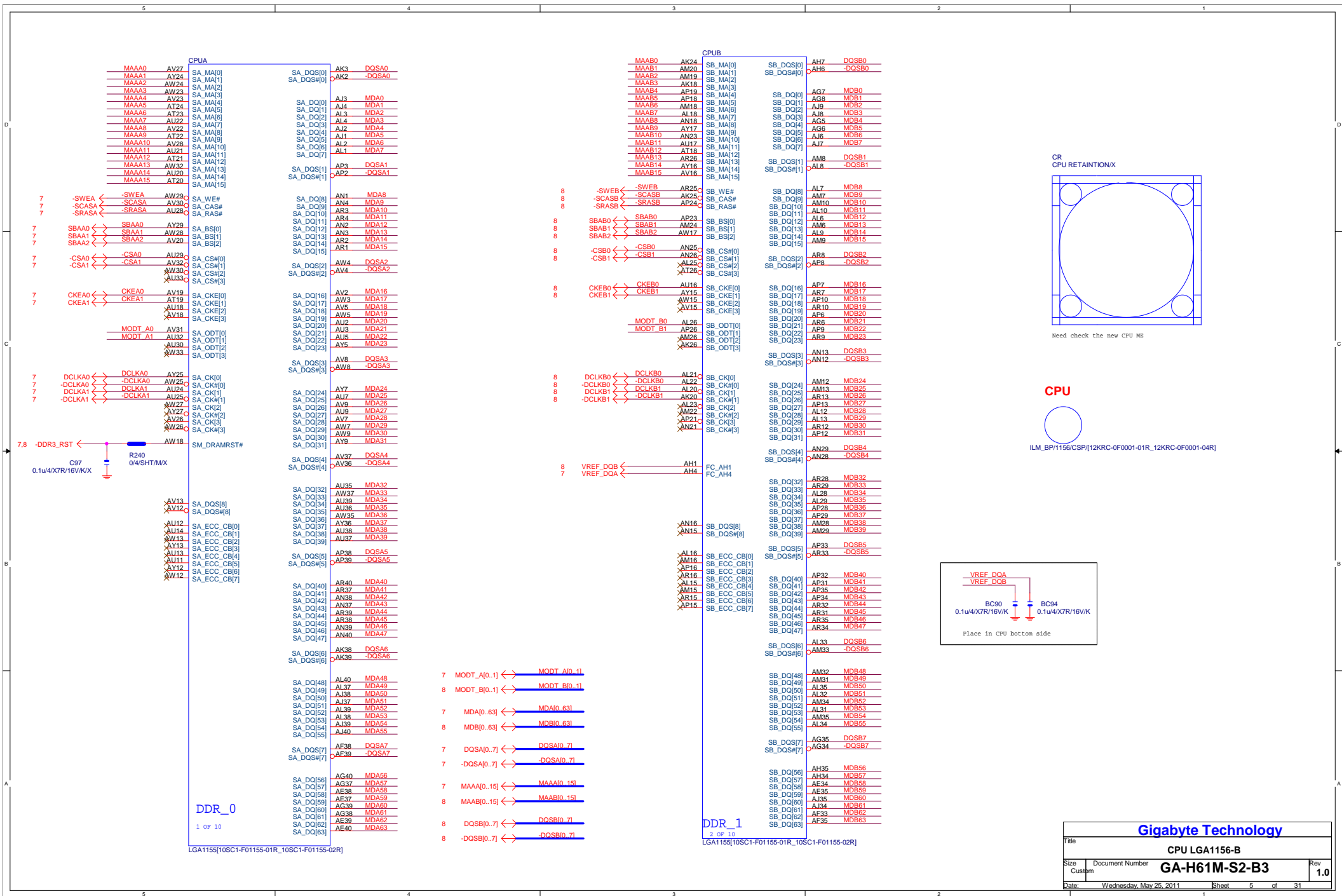
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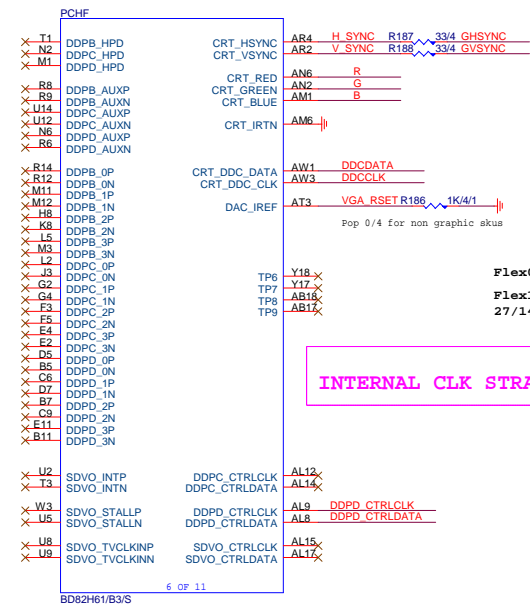
BLOCK DIAGRAM



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BLOCK DIAGRAM			
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<http://www.pdfactory.com>



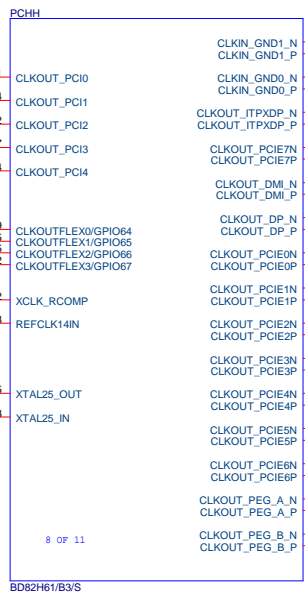


ADD TPM CLK

remove 33M

INTERNAL CLK STRAPPING

10K change to 8.2K



10K change to 8.2K

change to PCIEX1_3

PCIEX1_3

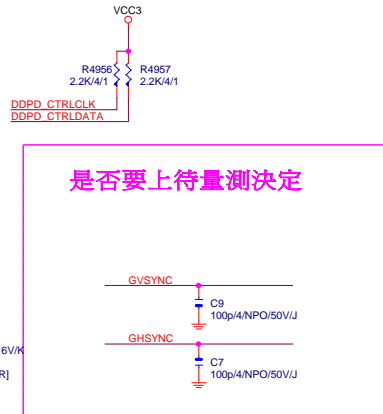
PCIEX1_2

PCIEX1_1

LAN

PCIEX16

USB30

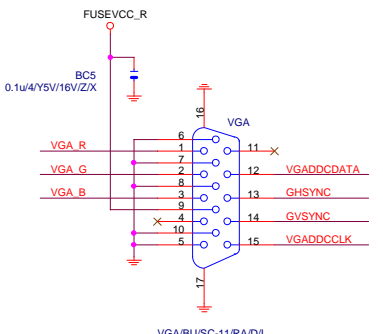


是否要上待量测决定

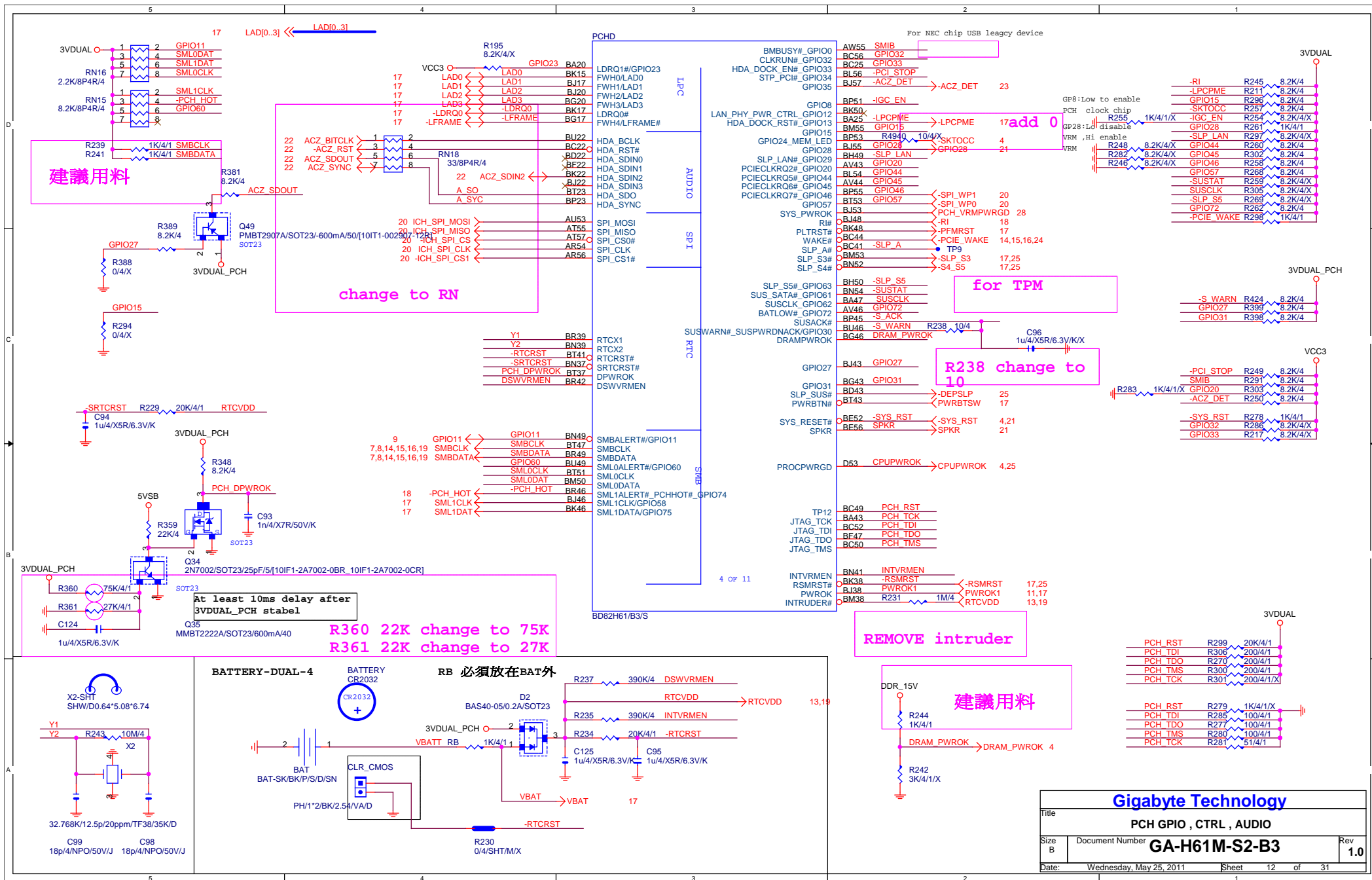
建議用料

FIX CLK EDID

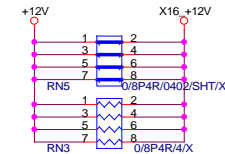
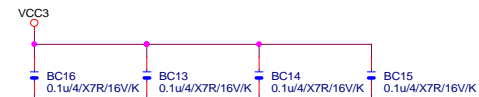
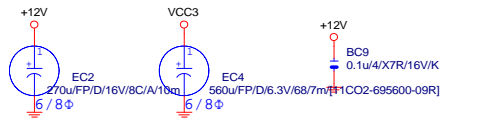
是否要上待量测决定



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PCH DISPLAY, CLK BUFFER			
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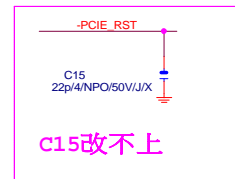
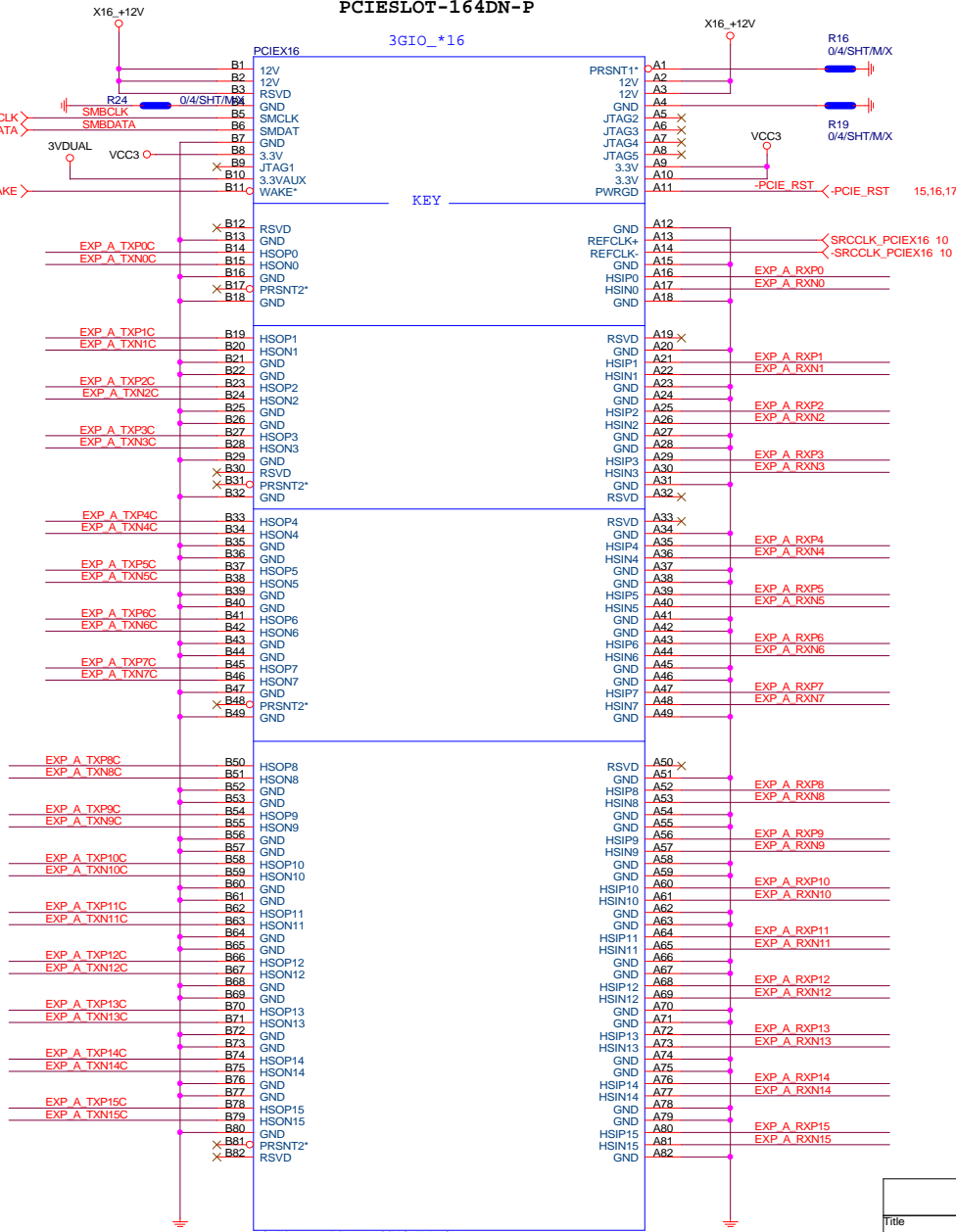


EC6D_8D10MM-RH



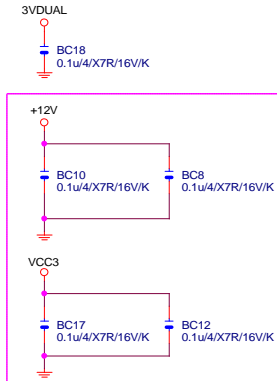
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EXP_A_RXN[0..15] >> EXP_A_RXN[0..15] 4
EXP_A_TXP[0..15] >> EXP_A_TXP[0..15] 4
EXP_A_TXN[0..15] >> EXP_A_TXN[0..15] 4

EXP_A_TXP0	C22	0.22u/4X5R/6.3V/K	EXP_A_TXP0C
EXP_A_TXN0	C26	0.22u/4X5R/6.3V/K	EXP_A_TXN0C
EXP_A_TXP1	C29	0.22u/4X5R/6.3V/K	EXP_A_TXP1C
EXP_A_TXN1	C31	0.22u/4X5R/6.3V/K	EXP_A_TXN1C
EXP_A_TXP2	C33	0.22u/4X5R/6.3V/K	EXP_A_TXP2C
EXP_A_TXN2	C35	0.22u/4X5R/6.3V/K	EXP_A_TXN2C
EXP_A_TXP3	C37	0.22u/4X5R/6.3V/K	EXP_A_TXP3C
EXP_A_TXN3	C40	0.22u/4X5R/6.3V/K	EXP_A_TXN3C
EXP_A_TXP4	C48	0.22u/4X5R/6.3V/K	EXP_A_TXP4C
EXP_A_TXN4	C49	0.22u/4X5R/6.3V/K	EXP_A_TXN4C
EXP_A_TXP5	C52	0.22u/4X5R/6.3V/K	EXP_A_TXP5C
EXP_A_TXN5	C54	0.22u/4X5R/6.3V/K	EXP_A_TXN5C
EXP_A_TXP6	C56	0.22u/4X5R/6.3V/K	EXP_A_TXP6C
EXP_A_TXN6	C58	0.22u/4X5R/6.3V/K	EXP_A_TXN6C
EXP_A_TXP7	C60	0.22u/4X5R/6.3V/K	EXP_A_TXP7C
EXP_A_TXN7	C61	0.22u/4X5R/6.3V/K	EXP_A_TXN7C
EXP_A_TXP8	C63	0.22u/4X5R/6.3V/K	EXP_A_TXP8C
EXP_A_TXN8	C64	0.22u/4X5R/6.3V/K	EXP_A_TXN8C
EXP_A_TXP9	C66	0.22u/4X5R/6.3V/K	EXP_A_TXP9C
EXP_A_TXN9	C67	0.22u/4X5R/6.3V/K	EXP_A_TXN9C
EXP_A_TXP10	C69	0.22u/4X5R/6.3V/K	EXP_A_TXP10C
EXP_A_TXN10	C70	0.22u/4X5R/6.3V/K	EXP_A_TXN10C
EXP_A_TXP11	C71	0.22u/4X5R/6.3V/K	EXP_A_TXP11C
EXP_A_TXN11	C72	0.22u/4X5R/6.3V/K	EXP_A_TXN11C
EXP_A_TXP12	C74	0.22u/4X5R/6.3V/K	EXP_A_TXP12C
EXP_A_TXN12	C75	0.22u/4X5R/6.3V/K	EXP_A_TXN12C
EXP_A_TXP13	C77	0.22u/4X5R/6.3V/K	EXP_A_TXP13C
EXP_A_TXN13	C78	0.22u/4X5R/6.3V/K	EXP_A_TXN13C
EXP_A_TXP14	C79	0.22u/4X5R/6.3V/K	EXP_A_TXP14C
EXP_A_TXN14	C80	0.22u/4X5R/6.3V/K	EXP_A_TXN14C
EXP_A_TXP15	C82	0.22u/4X5R/6.3V/K	EXP_A_TXP15C
EXP_A_TXN15	C83	0.22u/4X5R/6.3V/K	EXP_A_TXN15C



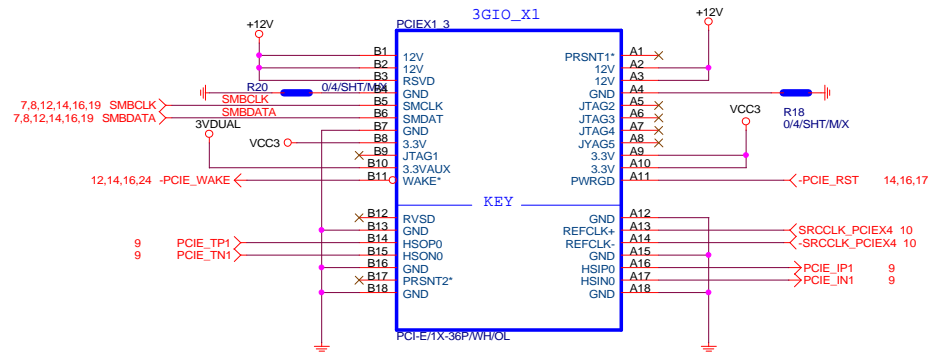
Gigabyte Technology			
Title			
PCI EXPRESS * 16			
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PCIESLOT-64D-98D-P



BC8 BC12改不上

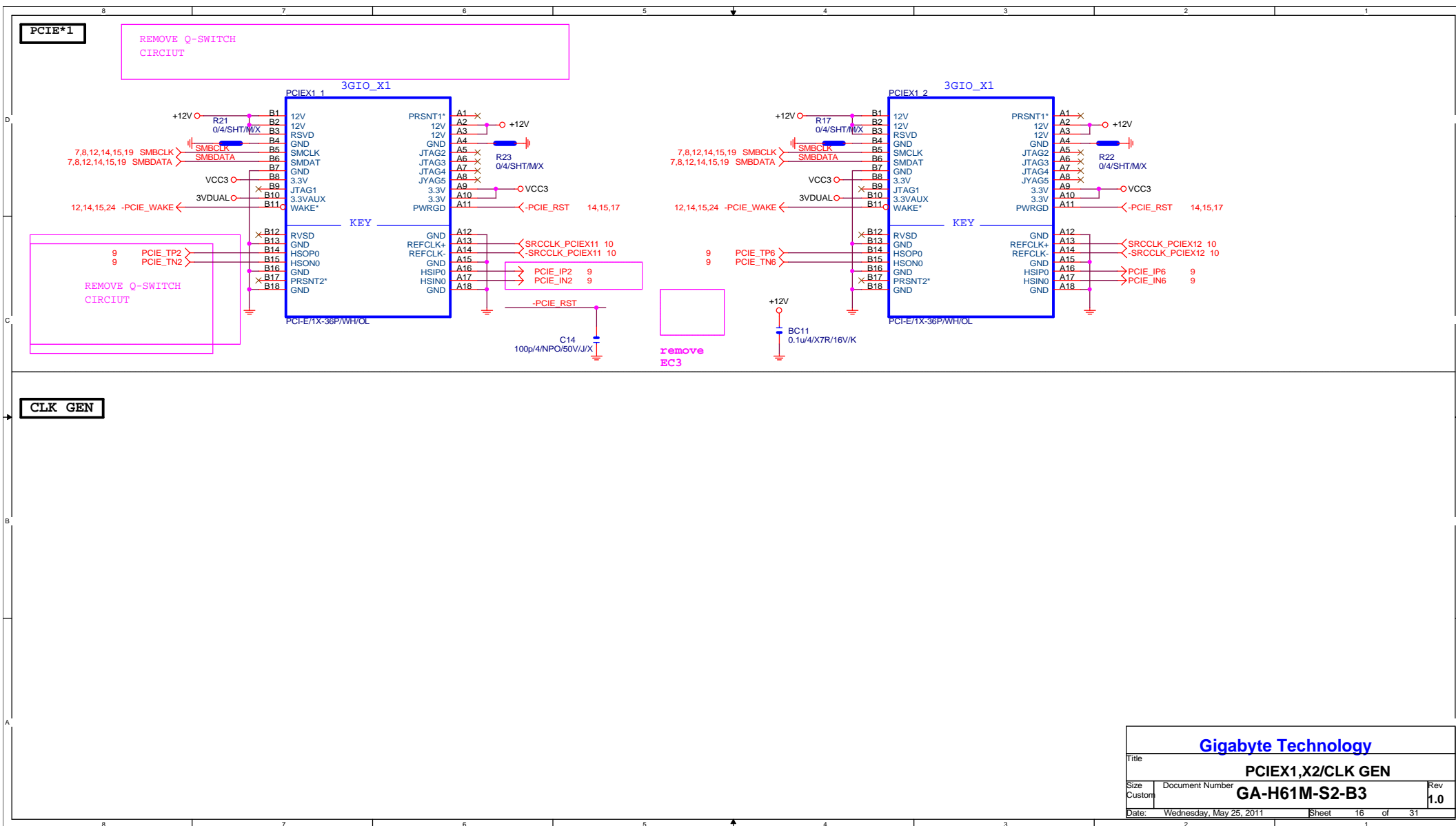
REMOVE RN



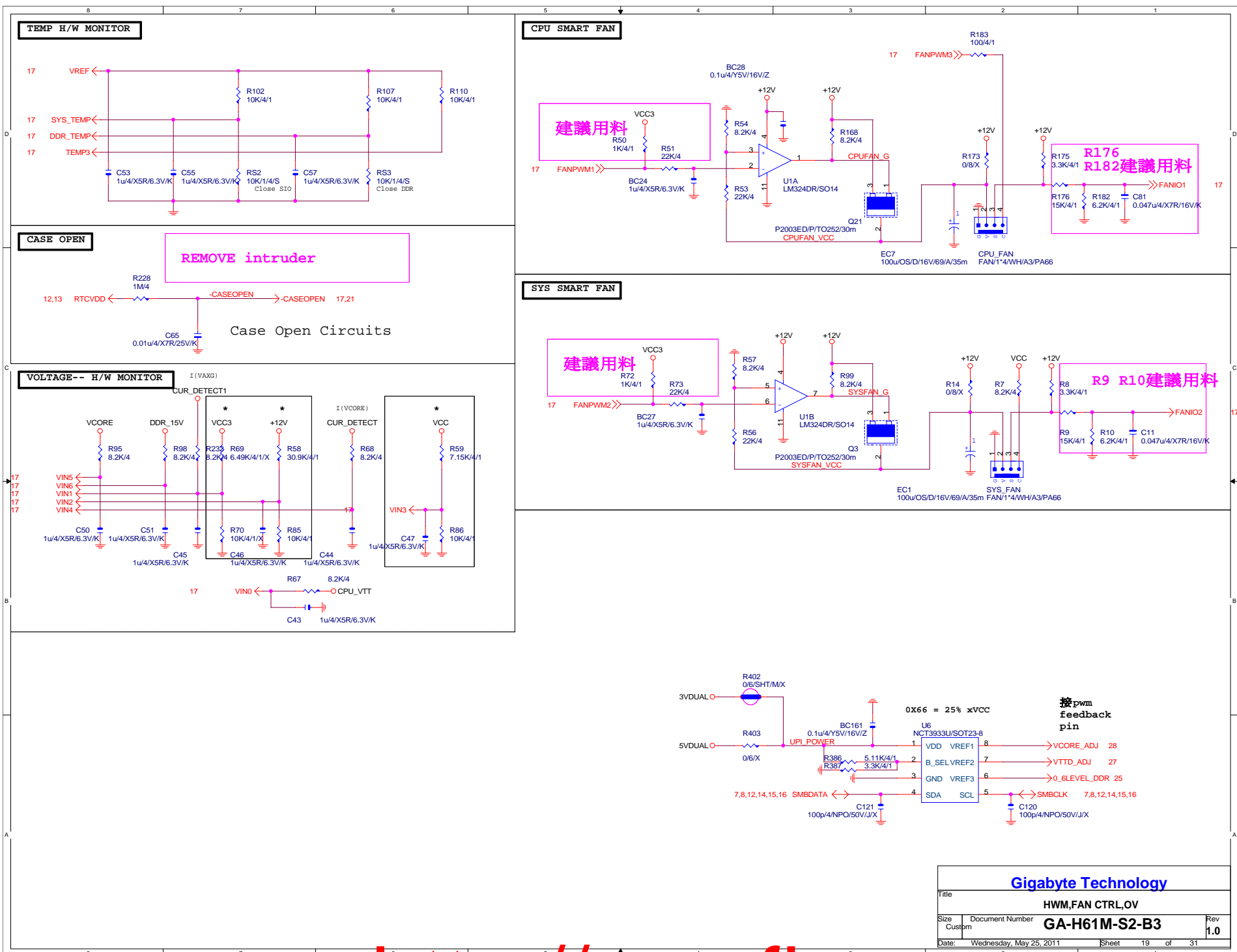
PCIE4 change to PCIE1

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Title		
PCI EXPRESS X 4 PORT		
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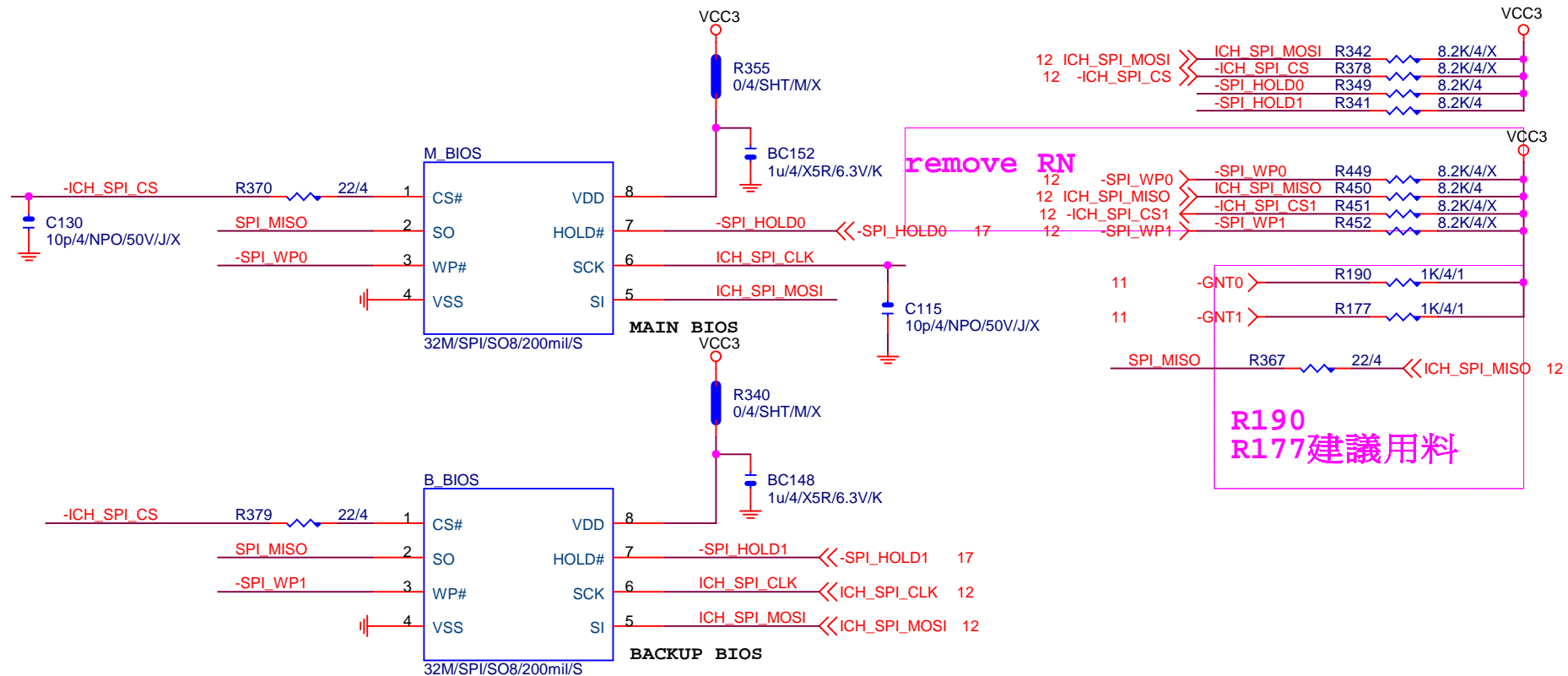






DUAL BIOS

R349 R341 改上件 for ITE 8728 DX



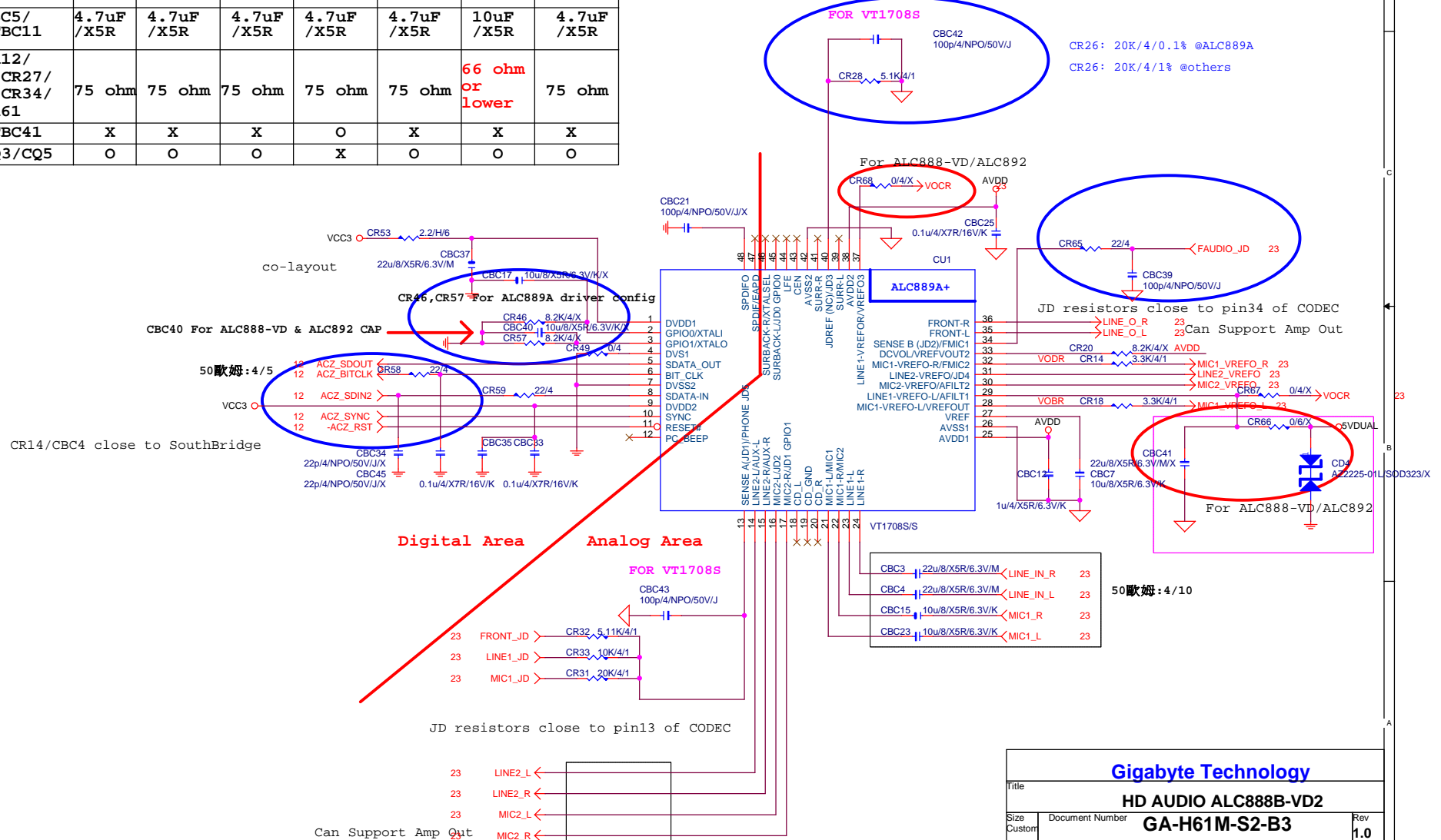
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating
0 means PD 1K

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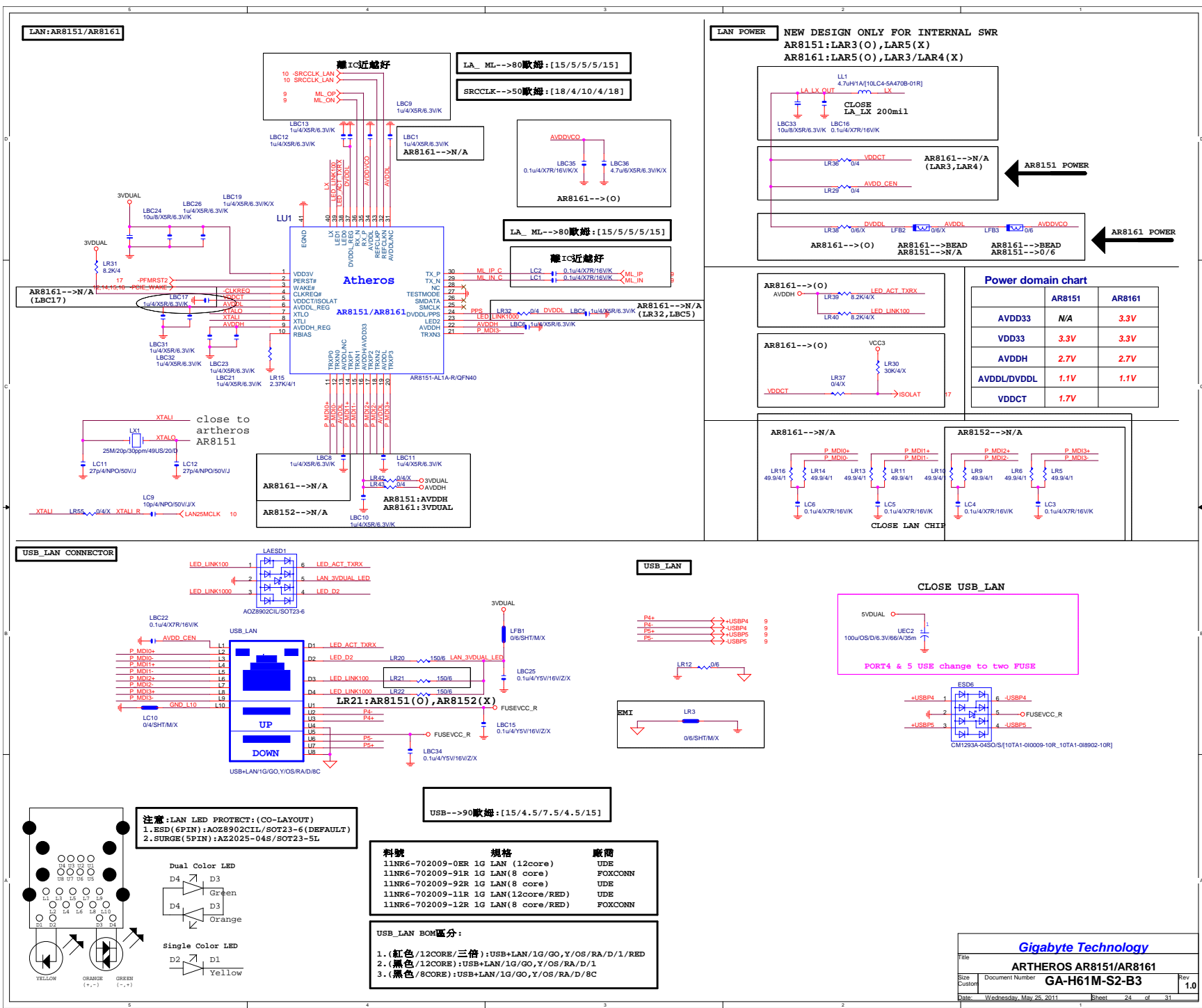
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DUAL BIOS		
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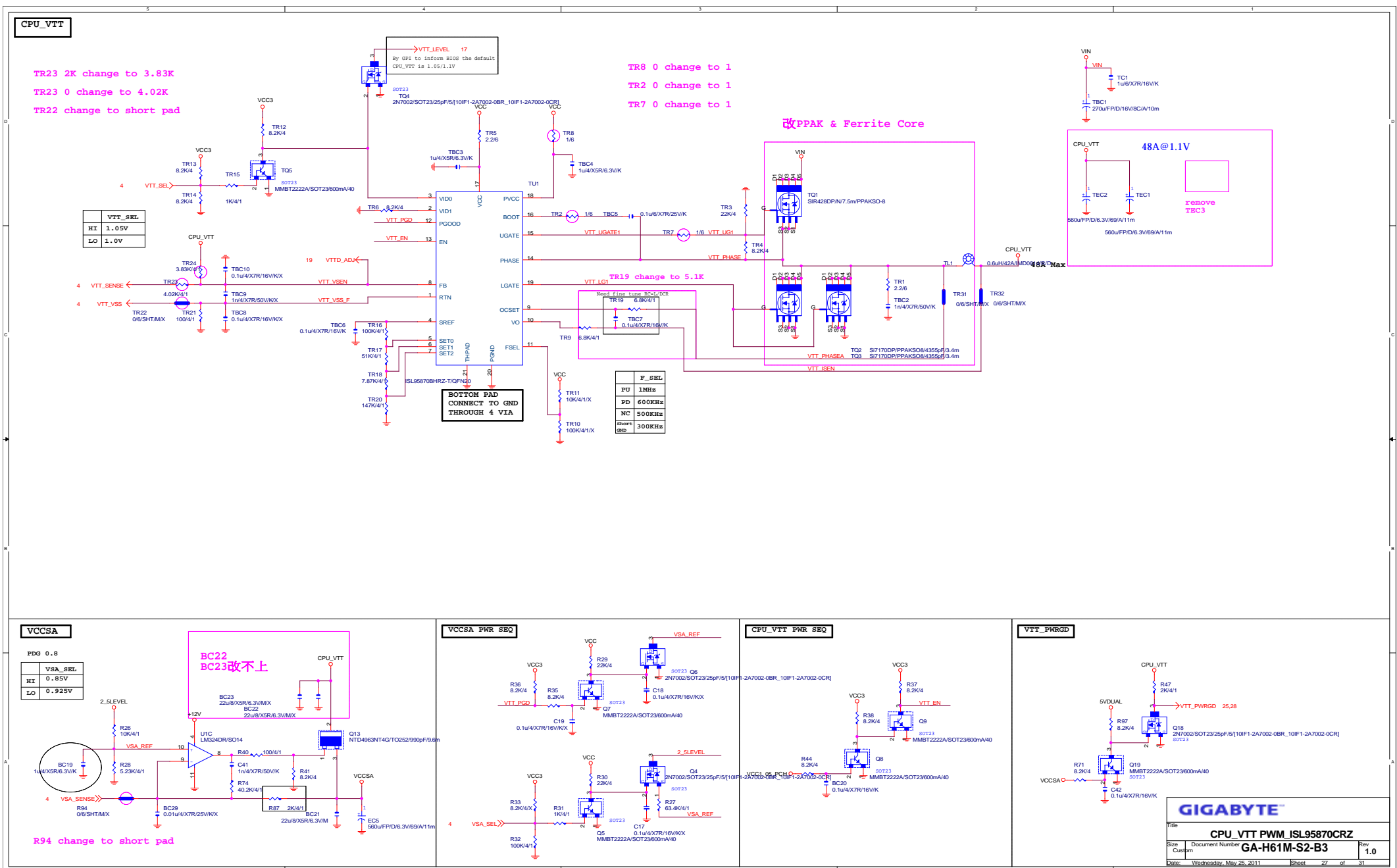
	ALC883	ALC888-VA	ALC888B	ALC888-VD	ALC892R	ALC889	ALC889A
CR46	X	X	X	X	X	X	O
CR57	X	X	X	X	X	X	O
CR49	O	O	X	X	X	O	O
CBC40	X	X	X	10uF/X5R	10uF/X5R	X	X
CR20	O	X	X	X	X	X	X
CR26	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/0.1%
CR47	X	X	O	X	O	O	X
CR48	O	O	X	O	X	X	O
CBC2/CBC4/CBC5/ CBC6/CBC10/CBC11	4.7uF /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



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Title	HD AUDIO ALC888B-VD2	
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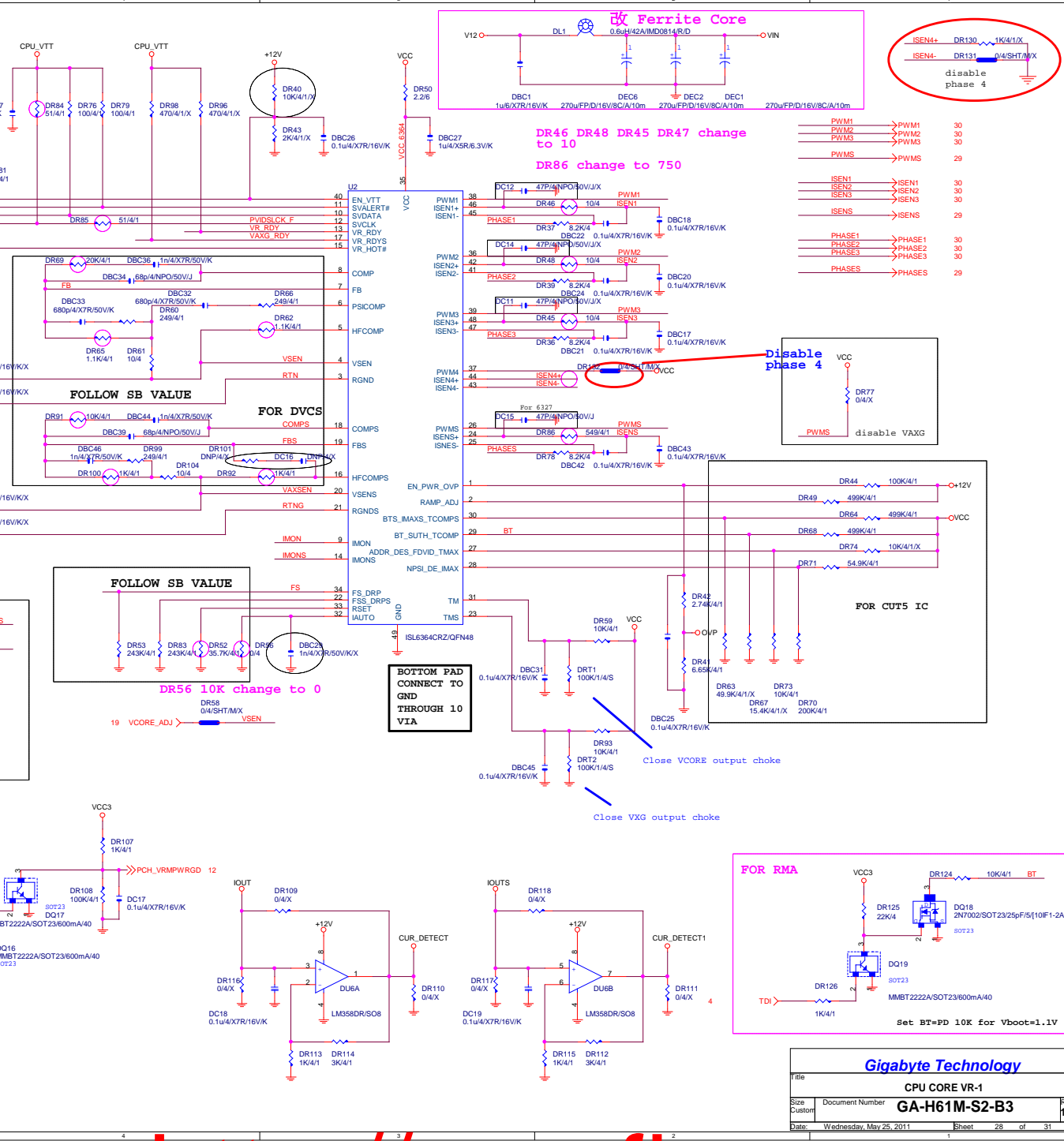


DR85 150 change to 51
 DR69 6.8K change to 11K
 DR82 0 change to 10
 DR62 2.1K change to 1.1K
 DR65 1.6K change to 1.1K
 DR57 100 change to 8.2K
 DR102 100 change to 8.2K
 DR54 short change to 750
 DR103 short change to 1K
 DR91 6.8K change to 10K
 DR100 3.3K change to 1K
 DR69 11K change to 20K
 DR54 change to 1.2K

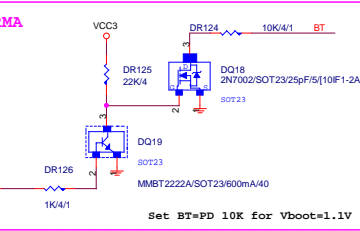
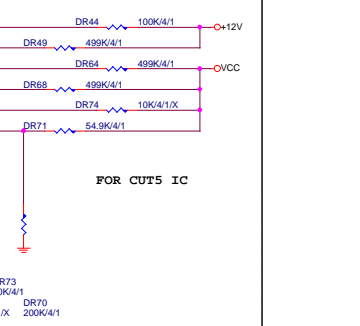
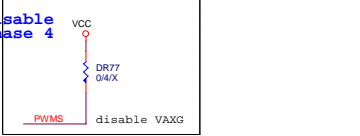
DR84 56.2 change to 51
 DR92 2.1K change to 1K

DR52 16.2K change to 24.9K

remove VAXG RDY



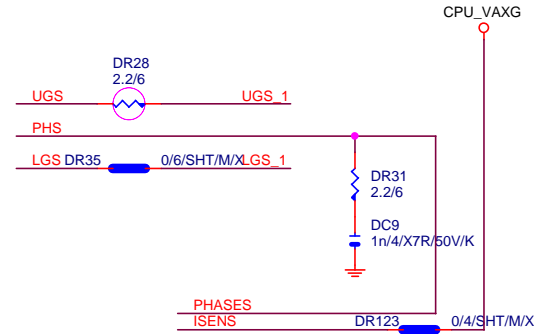
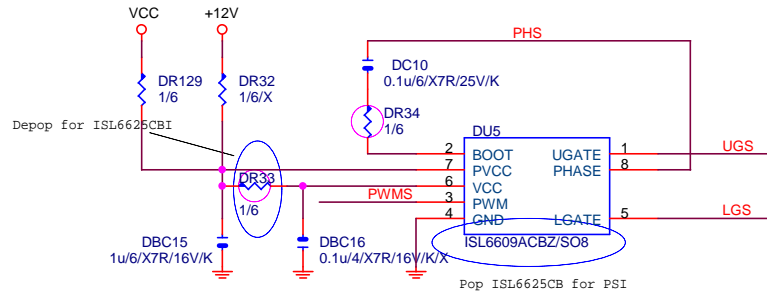
PWM1	PWM1	30
PWM2	PWM2	30
PWM3	PWM3	30
PWMS	PWMS	29
ISEN1	ISEN1	30
ISEN2	ISEN2	30
ISEN3	ISEN3	30
ISENS	ISENS	29
PHASE1	PHASE1	30
PHASE2	PHASE2	30
PHASE3	PHASE3	30
PHASES	PHASES	29



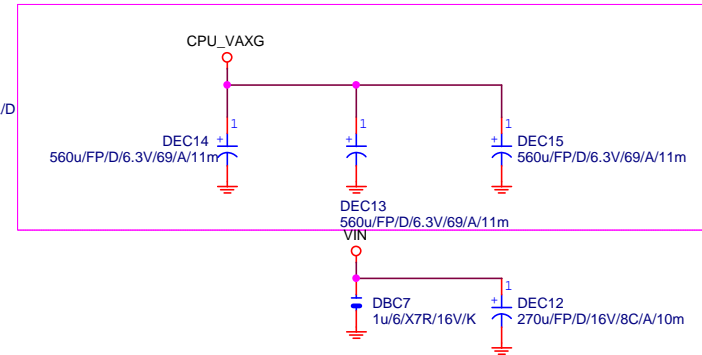
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CPU CORE VR-1		
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VAXG

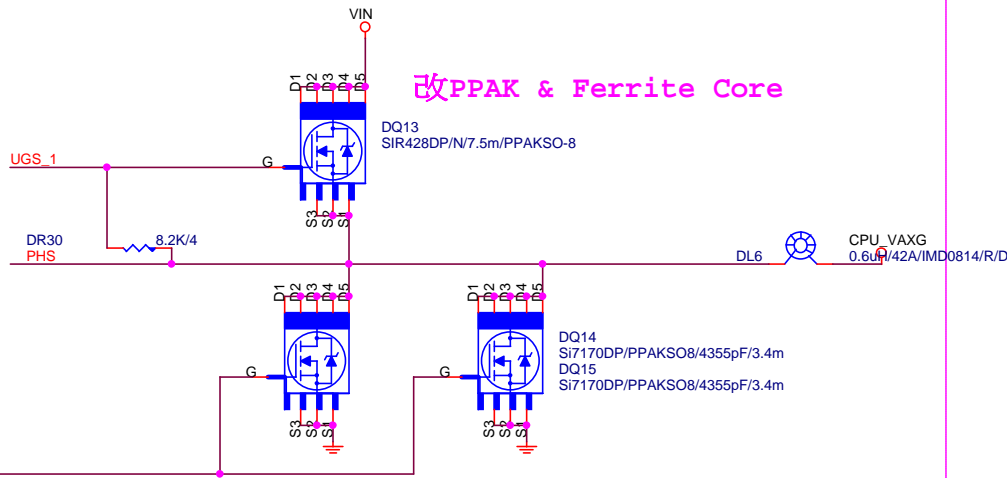
DR33 0 change to 1
DR34 0 change to 1
DR28 0 change to 2.2



PWMS → PWMS 28
ISENS → ISENS 28
PHASES → PHASES 28

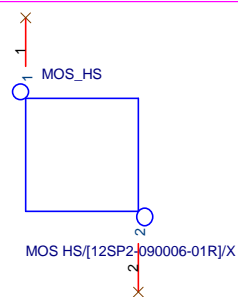


改PPAK & Ferrite Core



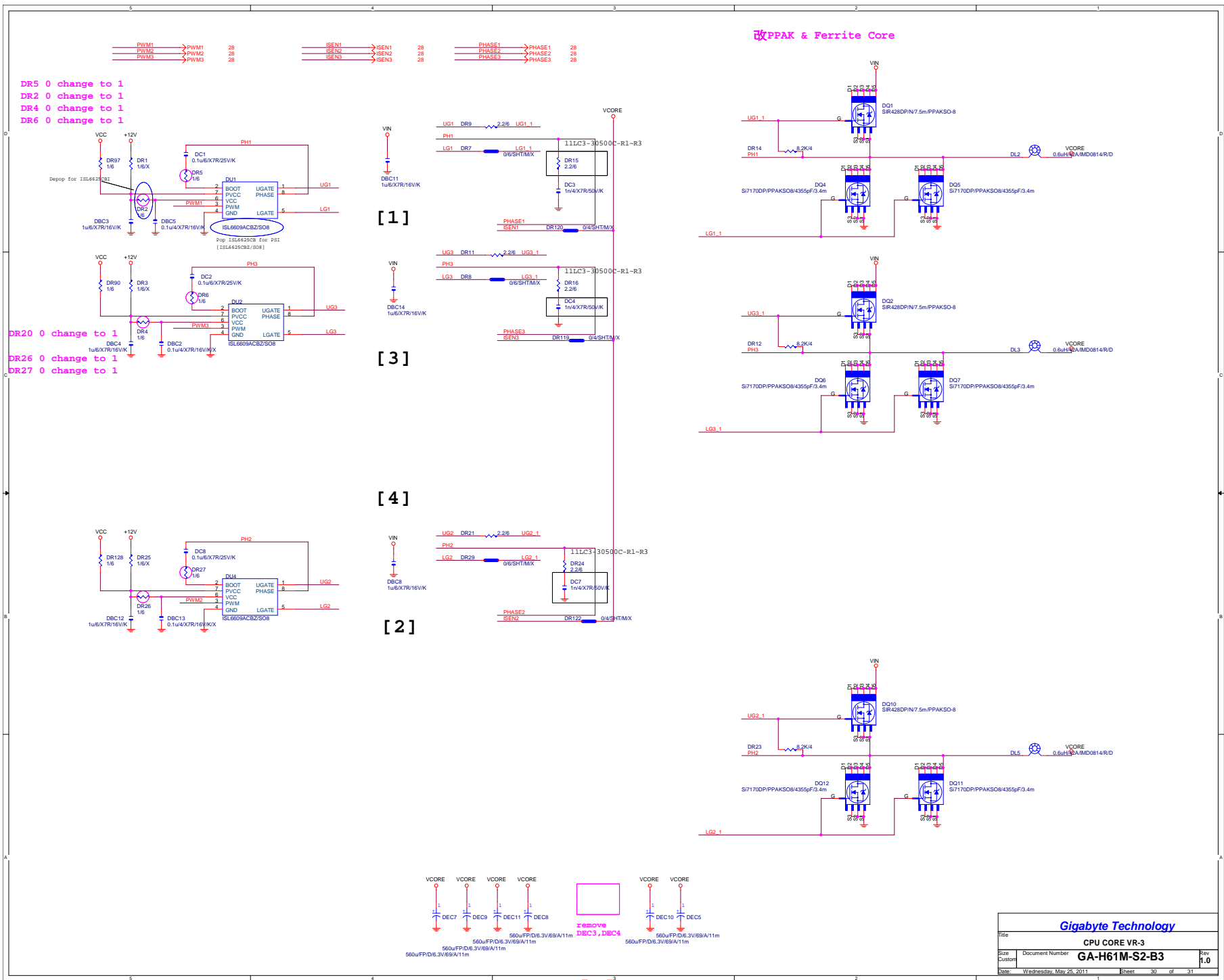
MOS HEATSINK

改不上

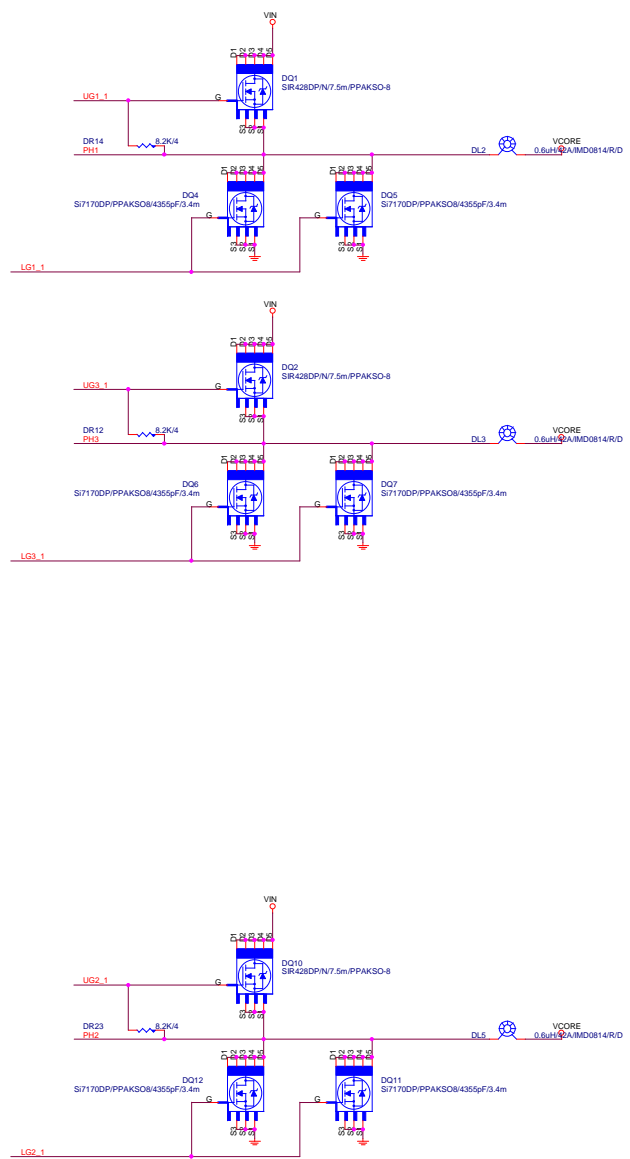


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Title		
CPU CORE VR-2		
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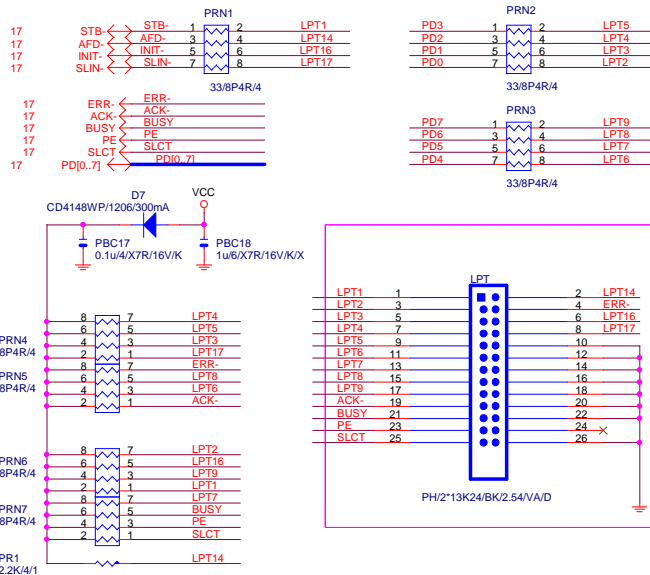


PPAK & Ferrite Core

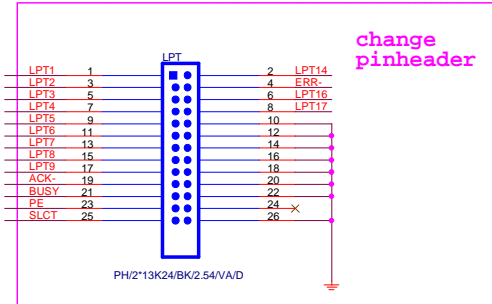


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CPU CORE VR-3			
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LPT PORT



change pinheader



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