

Model Name: GA-H61M-USB3-B3

Revision 2.0

SHEET

TITLE

SHEET

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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*1 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	ALC889
23	REAR AUDIO JACK
24	ATHEROS AR8151/USB_LAN
25	DISCRETE POWER
26	ATX,-S_WARN,-S_ACK,5VDUAL
27	ISL95870_CPU_VTT

28	VCORE ISL6364_1
29	VCORE ISL6364_2
30	VCORE ISL6364_3
31	DVI/HDMI
32	etron USB 3.0
33	ITE 8893E
34	PCI SLOT
35	Marvell 9172

Gigabyte Technology

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Revision 2.0

Component value change history

2011/09/01

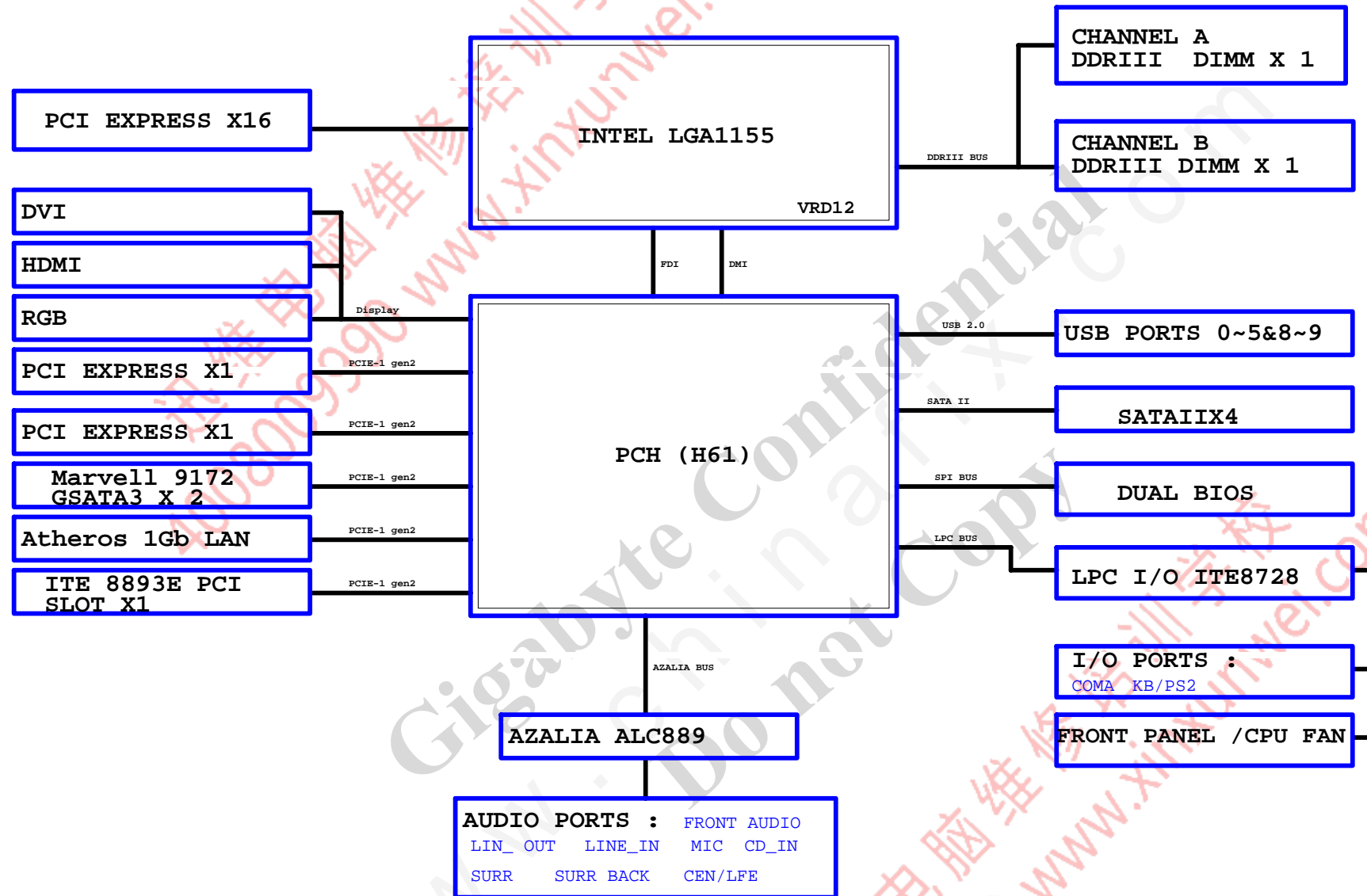
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Circuit or PCB layout change

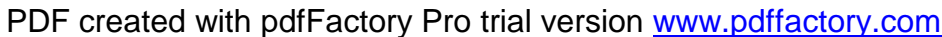
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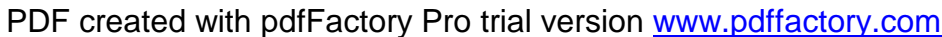
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Title			
BOM & PCB MODIFY HISTORY			
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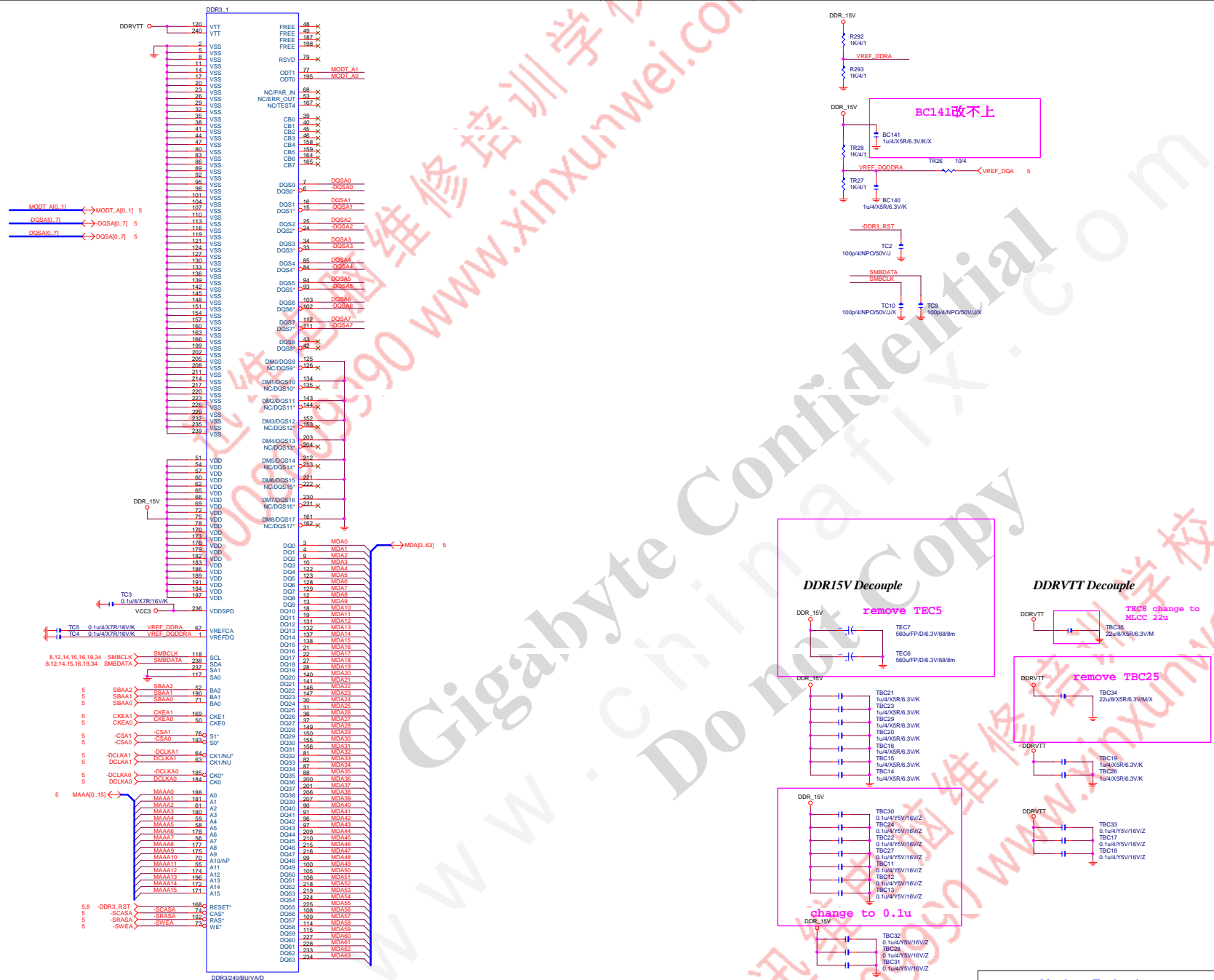
BLOCK DIAGRAM



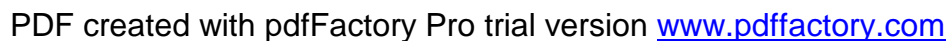
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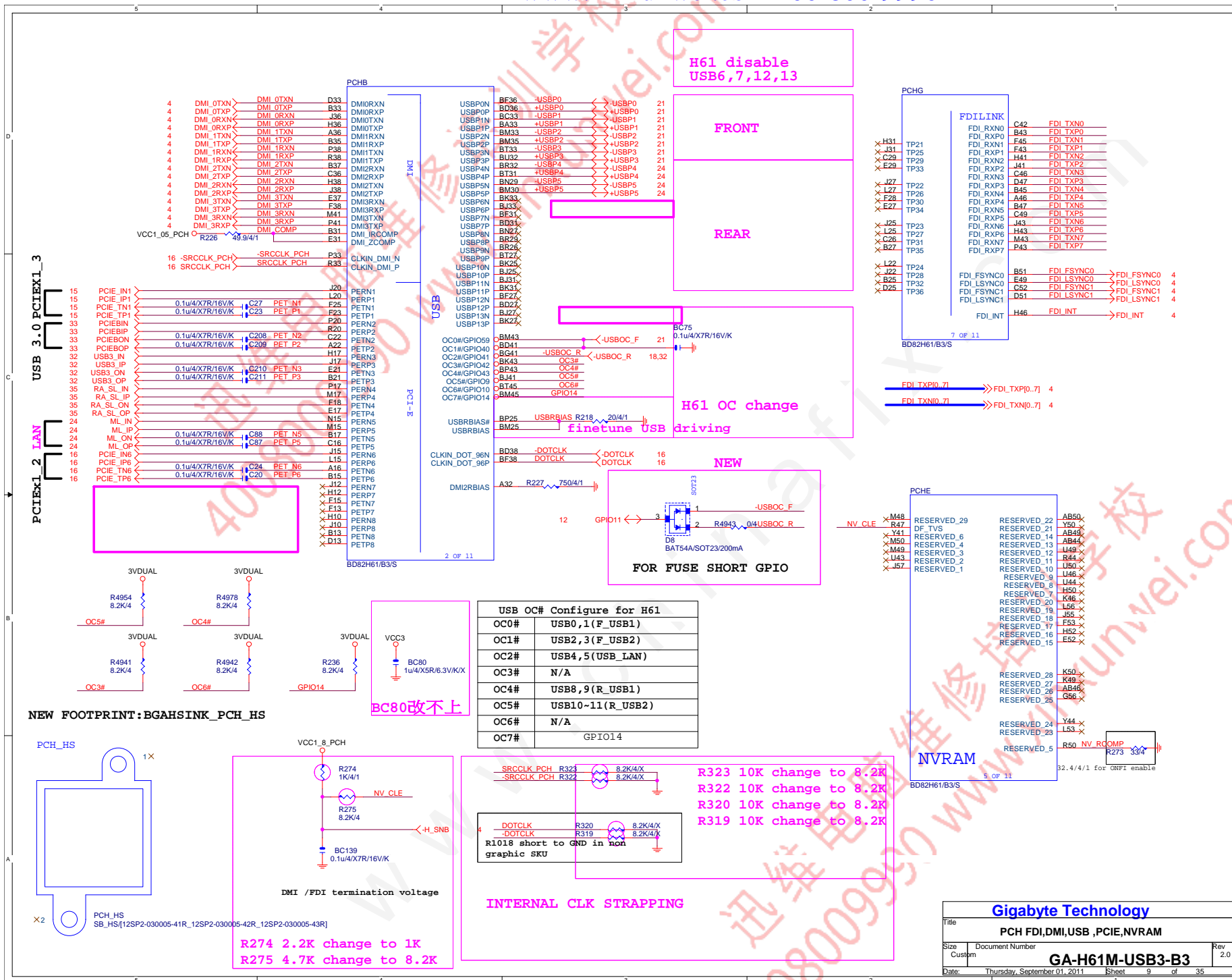


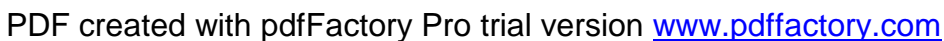




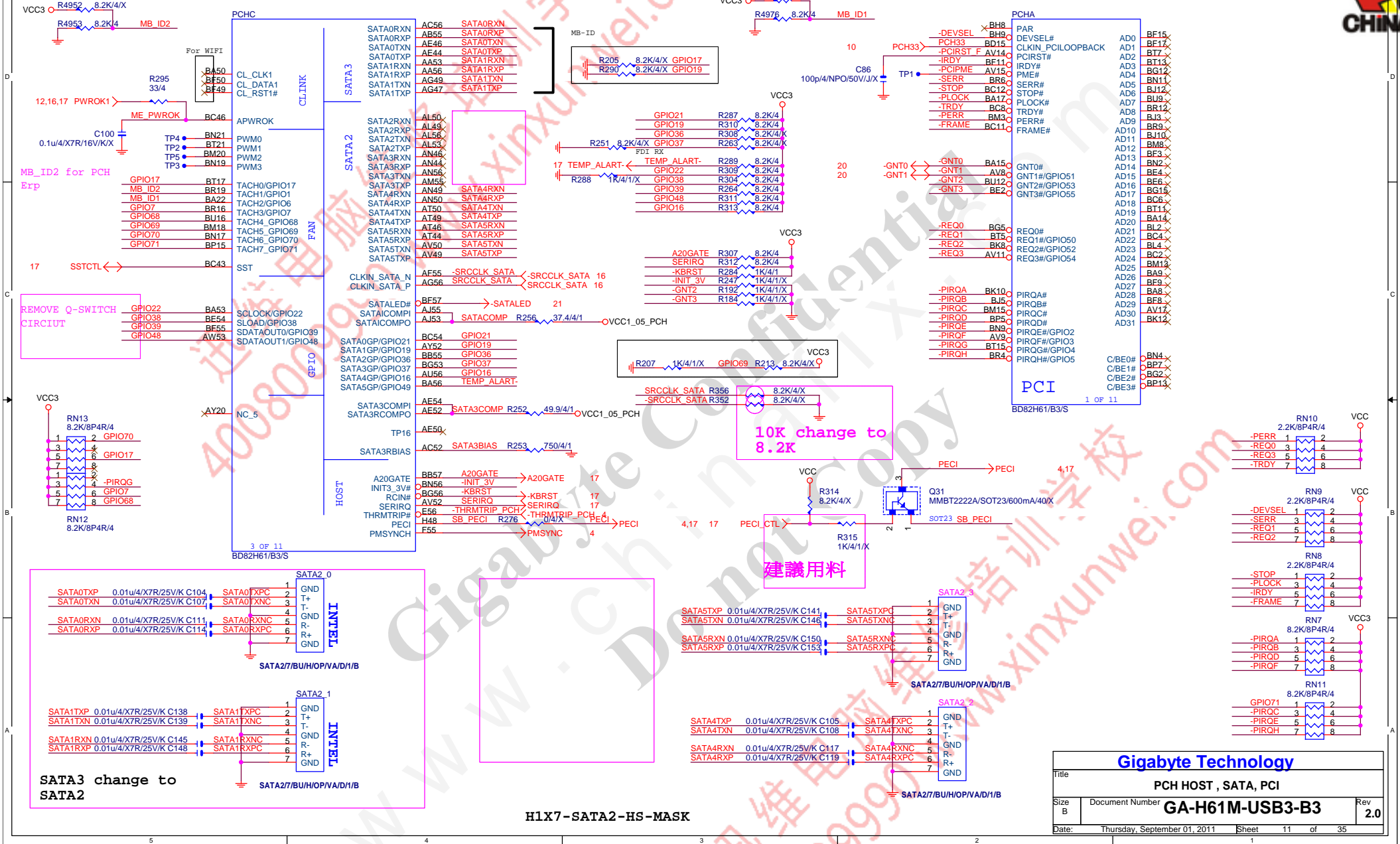
Gigabyte Technology			
File	DDR3 CHANNEL A		
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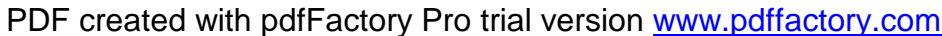


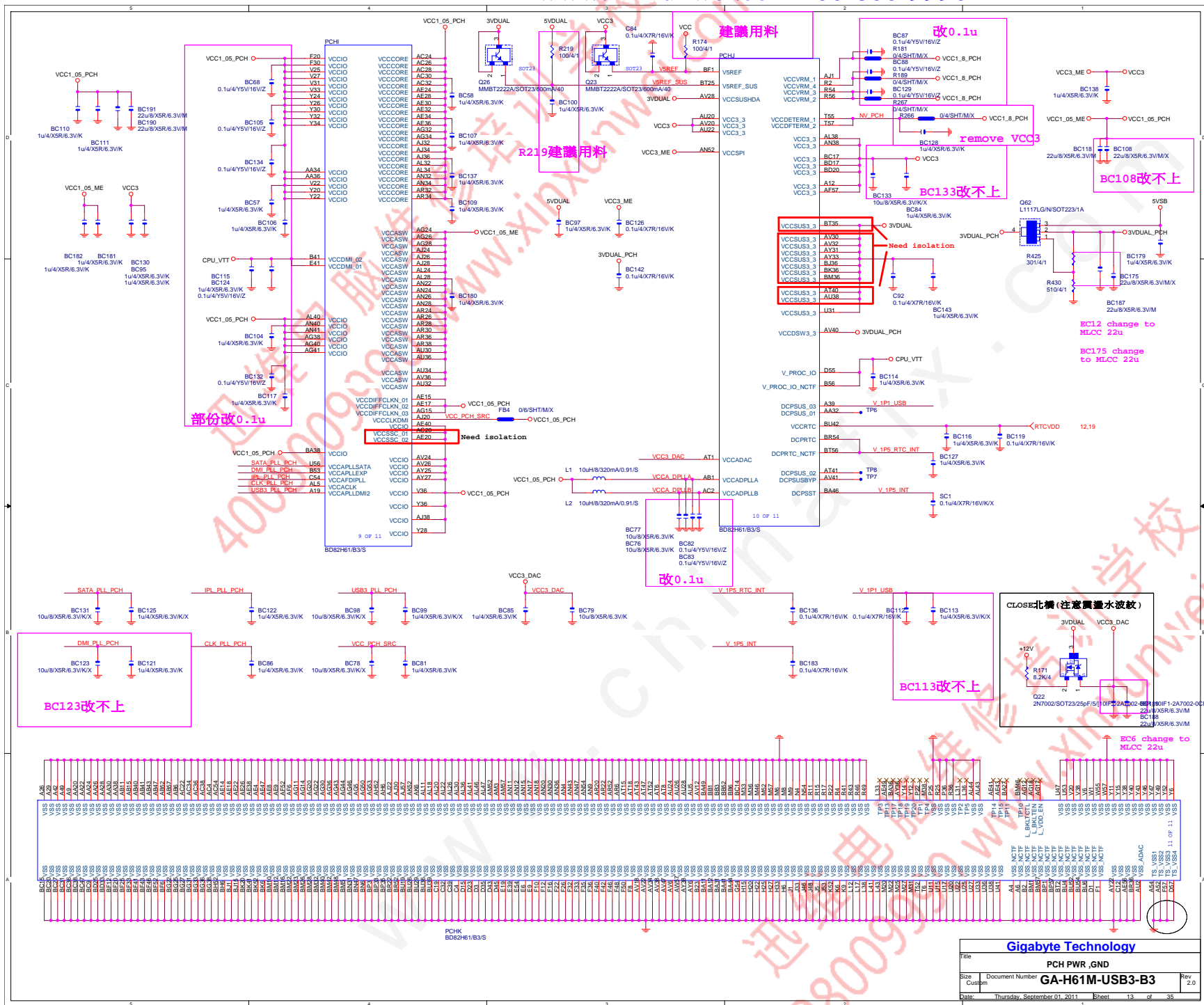




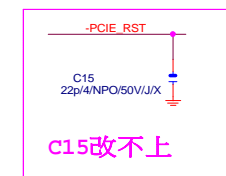
H61 SATA3.0 Disable







PCIESLOT-164DN-P

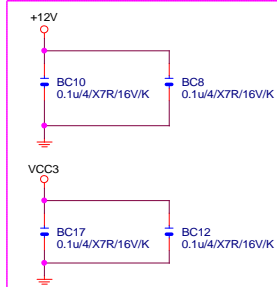


C15改不上

Title			
PCI EXPRESS * 16			
Size Custom	Document Number	GA-H61M-USB3-B3	Rev 2.
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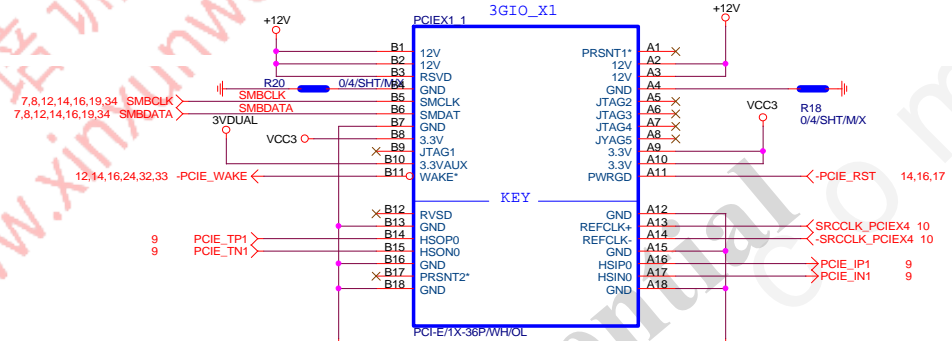
PCIESLOT-64D-98D-P

3VDUAL
BC18
0.1u/4/X7R/16V/K

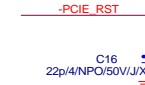


BC8 BC12改不上

REMOVE RN



PCIE1_1 change to PCIE1

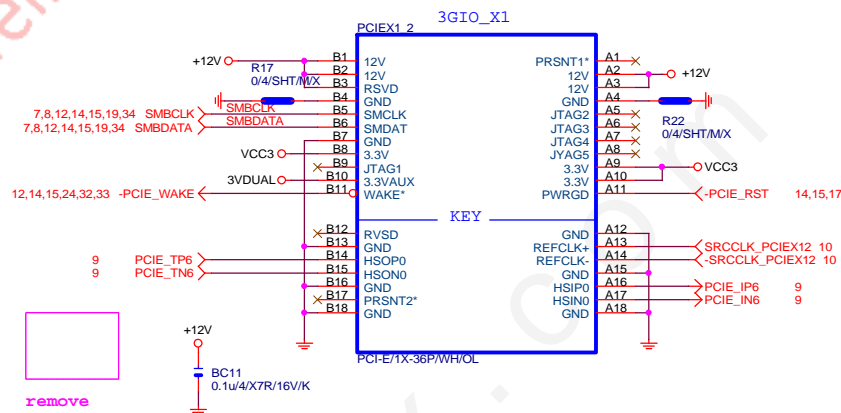


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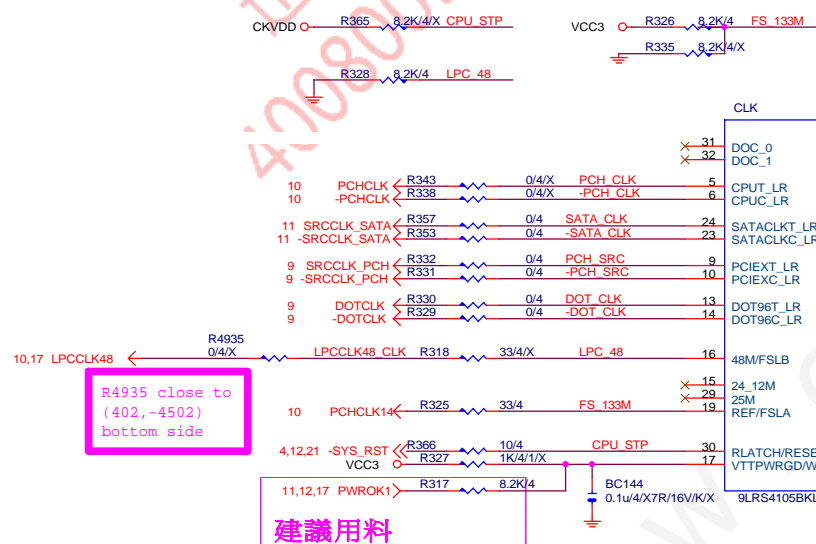
Title			
PCI EXPRESS X 4 PORT			
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PCIE*1

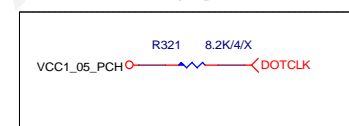
REMOVE Q-SWITCH
CIRCUIT



CLK GEN



Mount for non-graphics skus

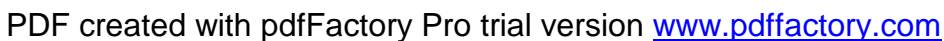


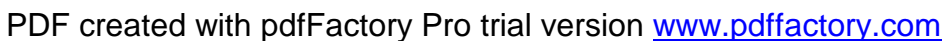
CPU Frequency Selection

FS	CPU
1	100M <Default>
0	133M

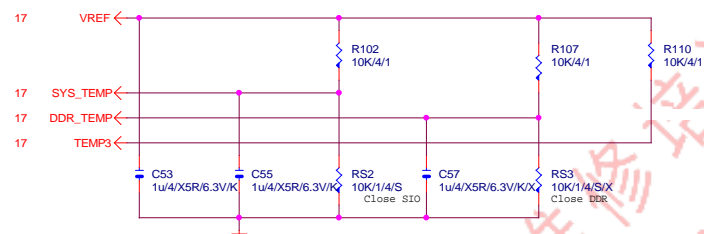
Gigabyte Technology

Title		
PCIEX1,X2/CLK GEN		
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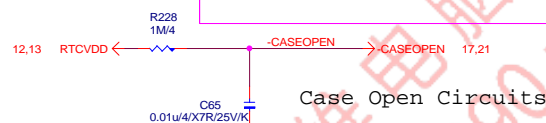


TEMP H/W MONITOR

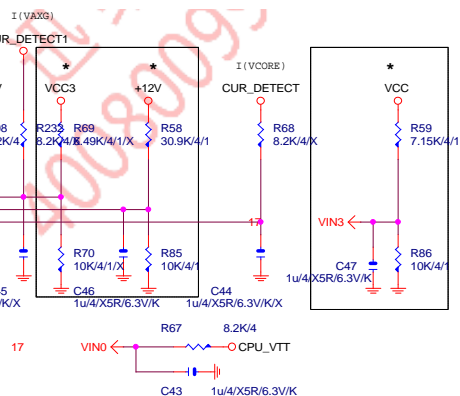


CASE OPEN

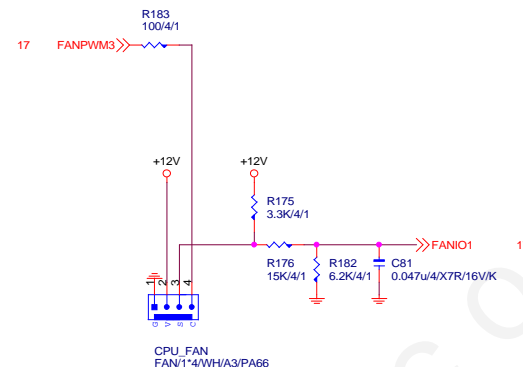
REMOVE intruder



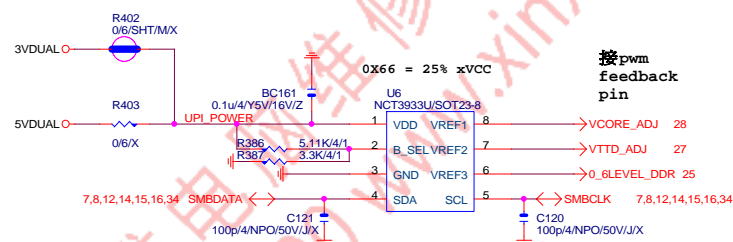
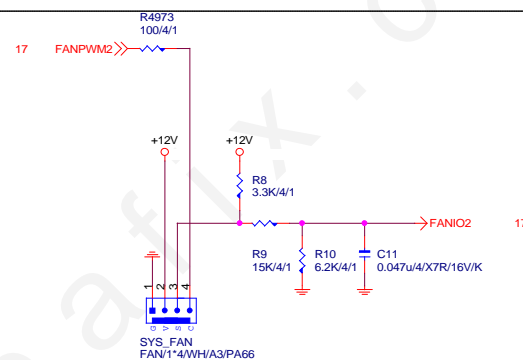
VOLTAGE-- H/W MONITOR



CPU SMART FAN



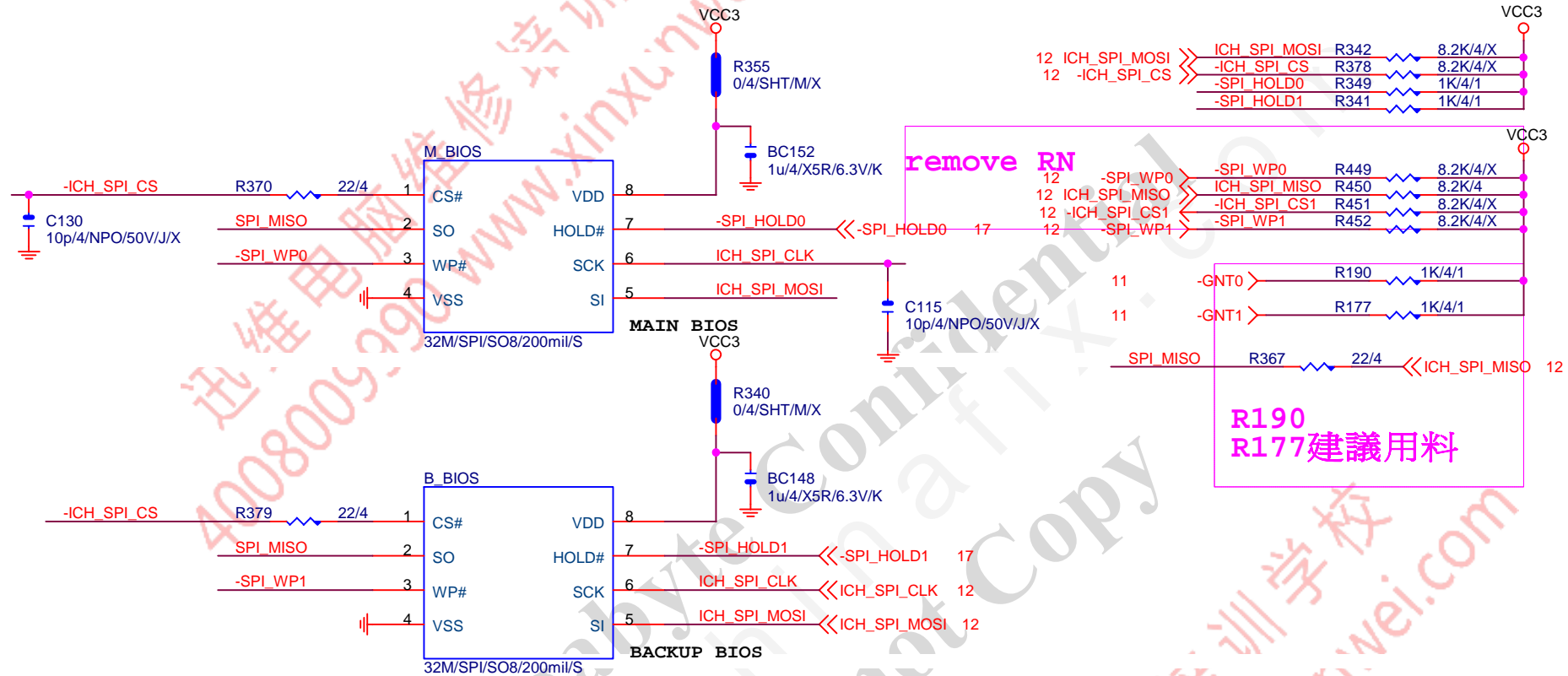
SYS SMART FAN



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Title			
HWM,FAN CTRL,OV			
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DUAL BIOS

R349 R341 改上件 for ITE 8728 DX

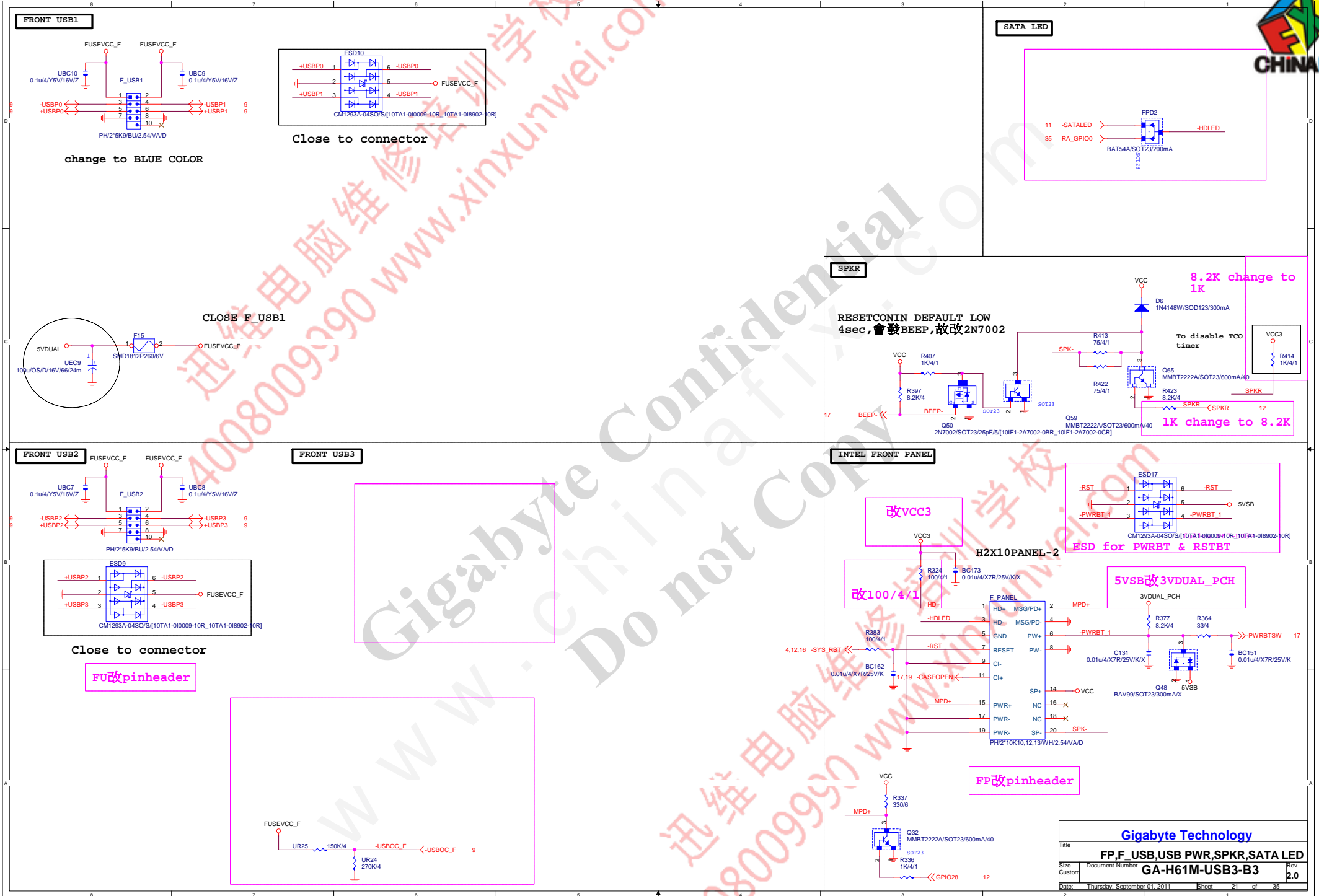


BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating
0 means PD 1K

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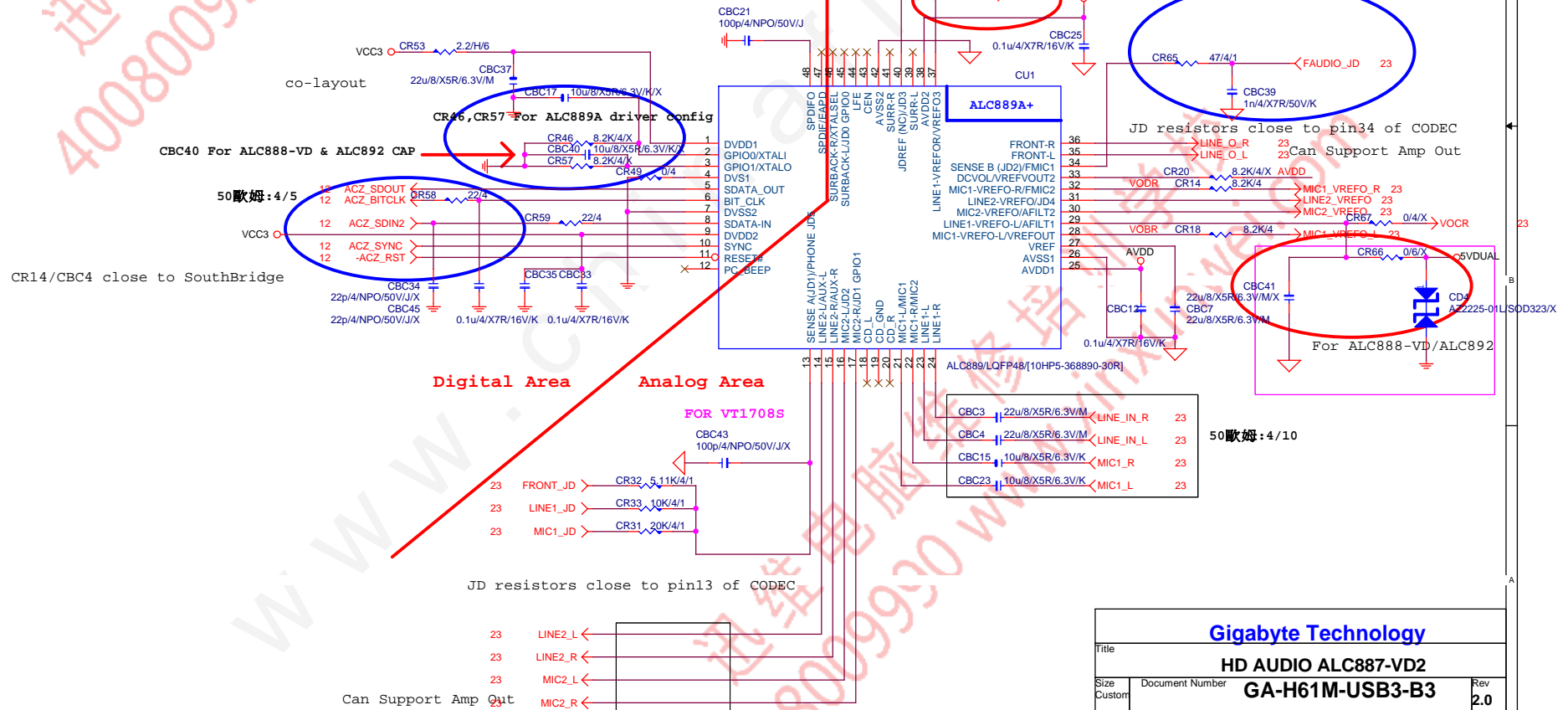
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DUAL BIOS		
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AZALIA CODEC

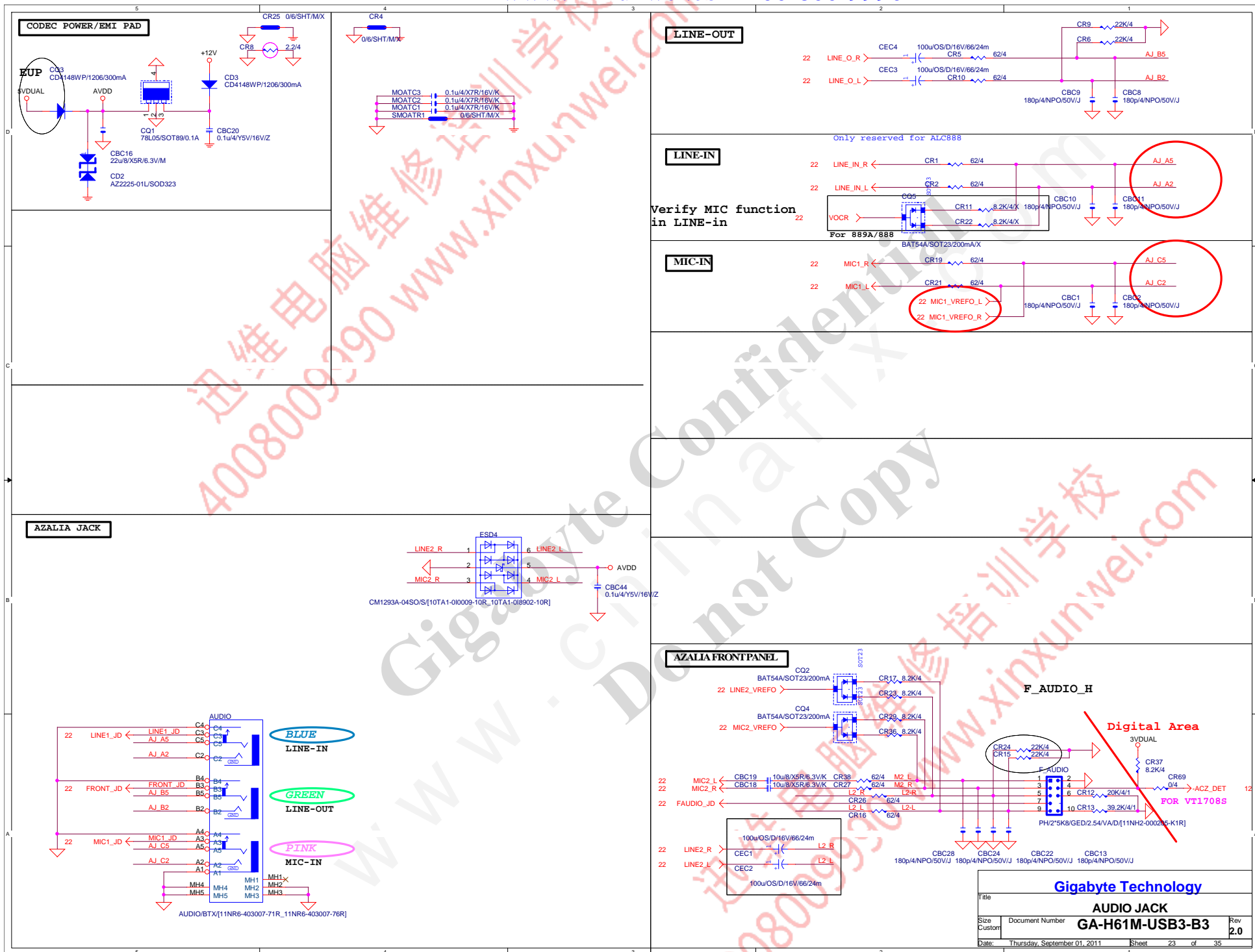
ALC883/ALC888-A/ALC888B/ALC888-VD/ALC892R/ALC889/ALC889A Colay

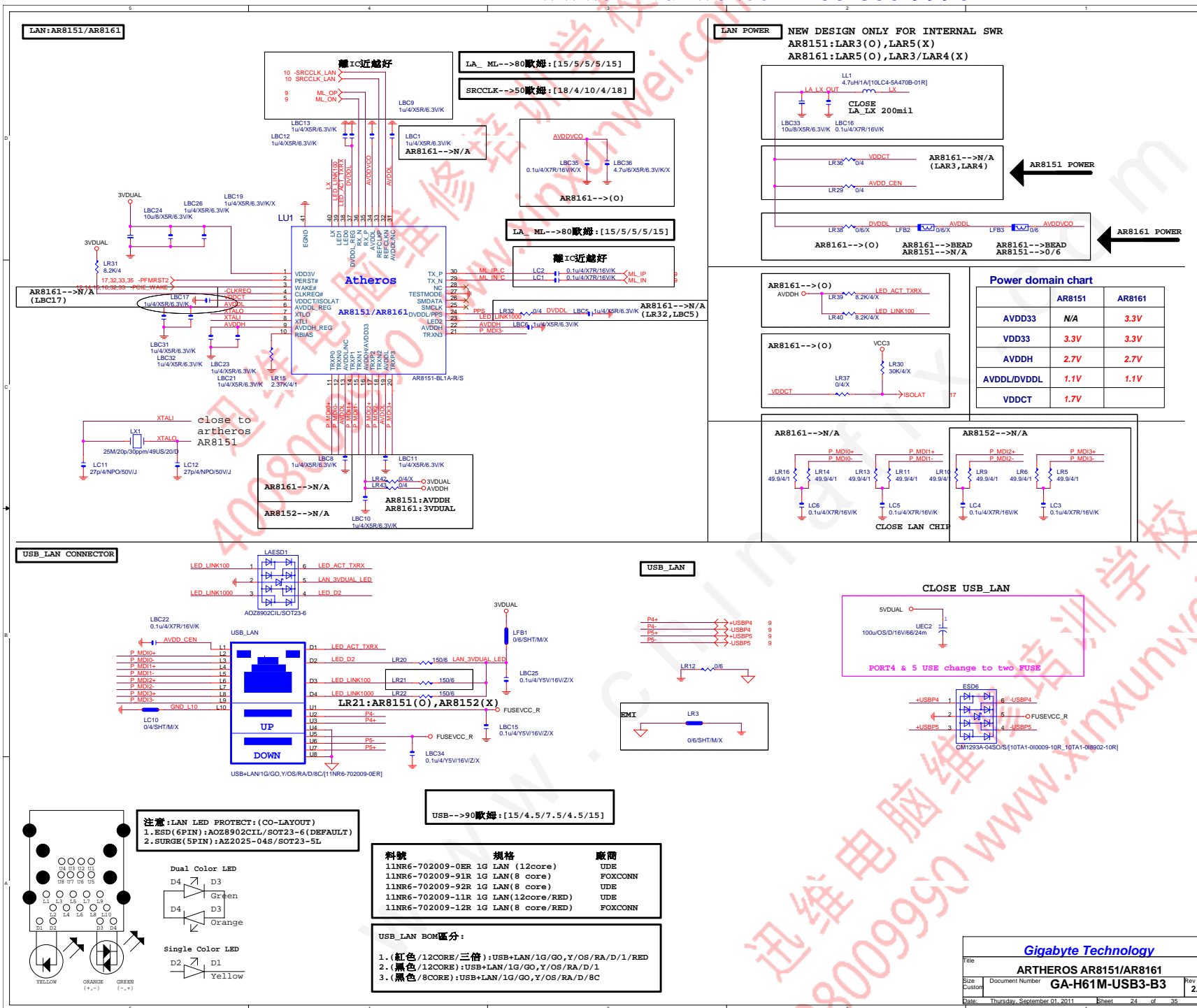
	ALC883	ALC888-VA	ALC888B	ALC888-VD	ALC892R	ALC889	ALC889A
CR46	X	X	X	X	X	X	O
CR57	X	X	X	X	X	X	O
CR49	O	O	X	X	X	O	O
CBC40	X	X	X	10uF/X5R	10uF/X5R	X	X
CR20	O	X	X	X	X	X	X
CR26	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/0.1%
CR47	X	X	O	X	O	O	X
CR48	O	O	X	O	X	X	O
CBC2/CBC4/CBC5/ CBC6/CBC10/CBC11	4.7uF/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



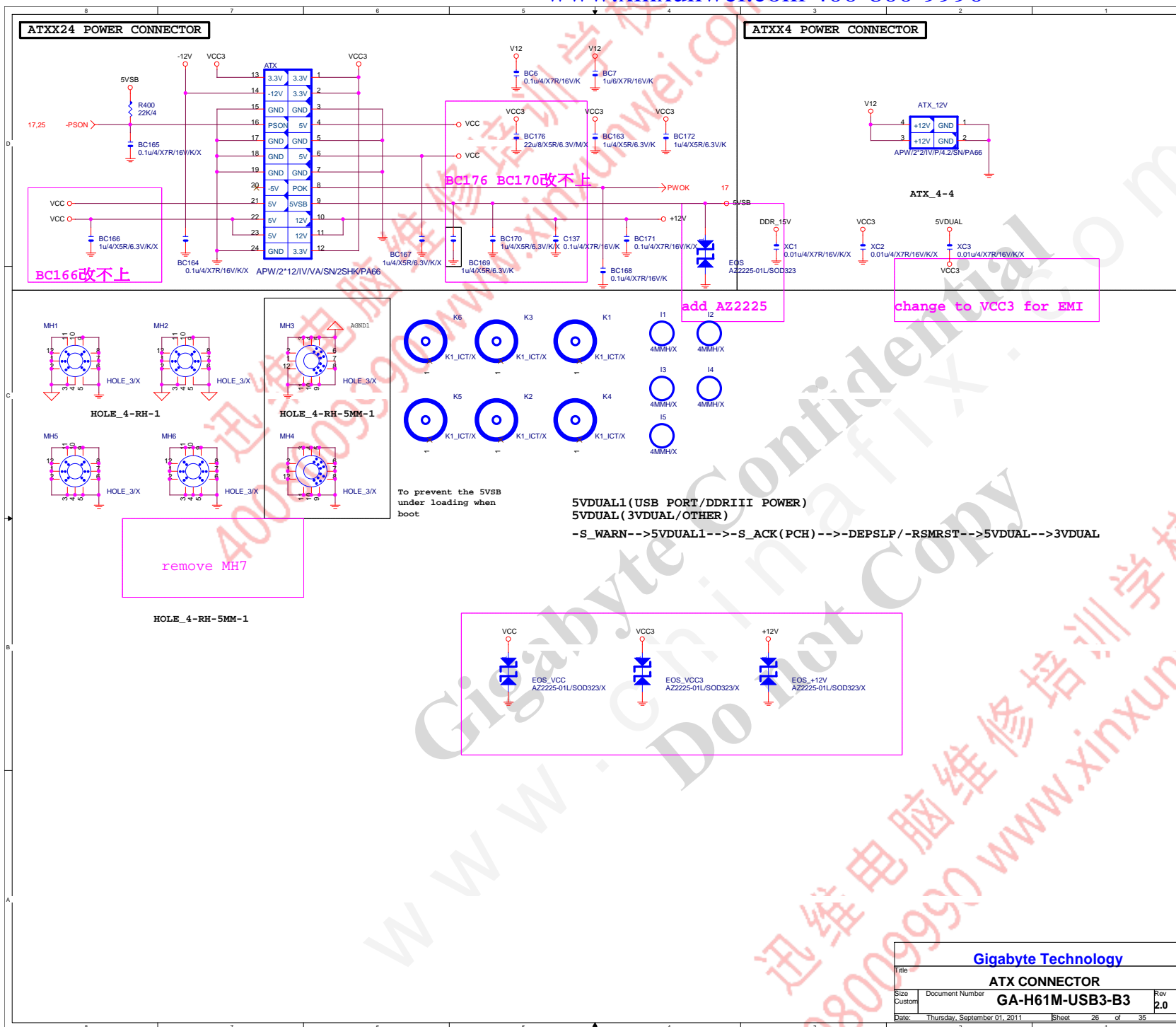
Gigabyte Technology

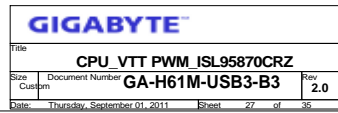
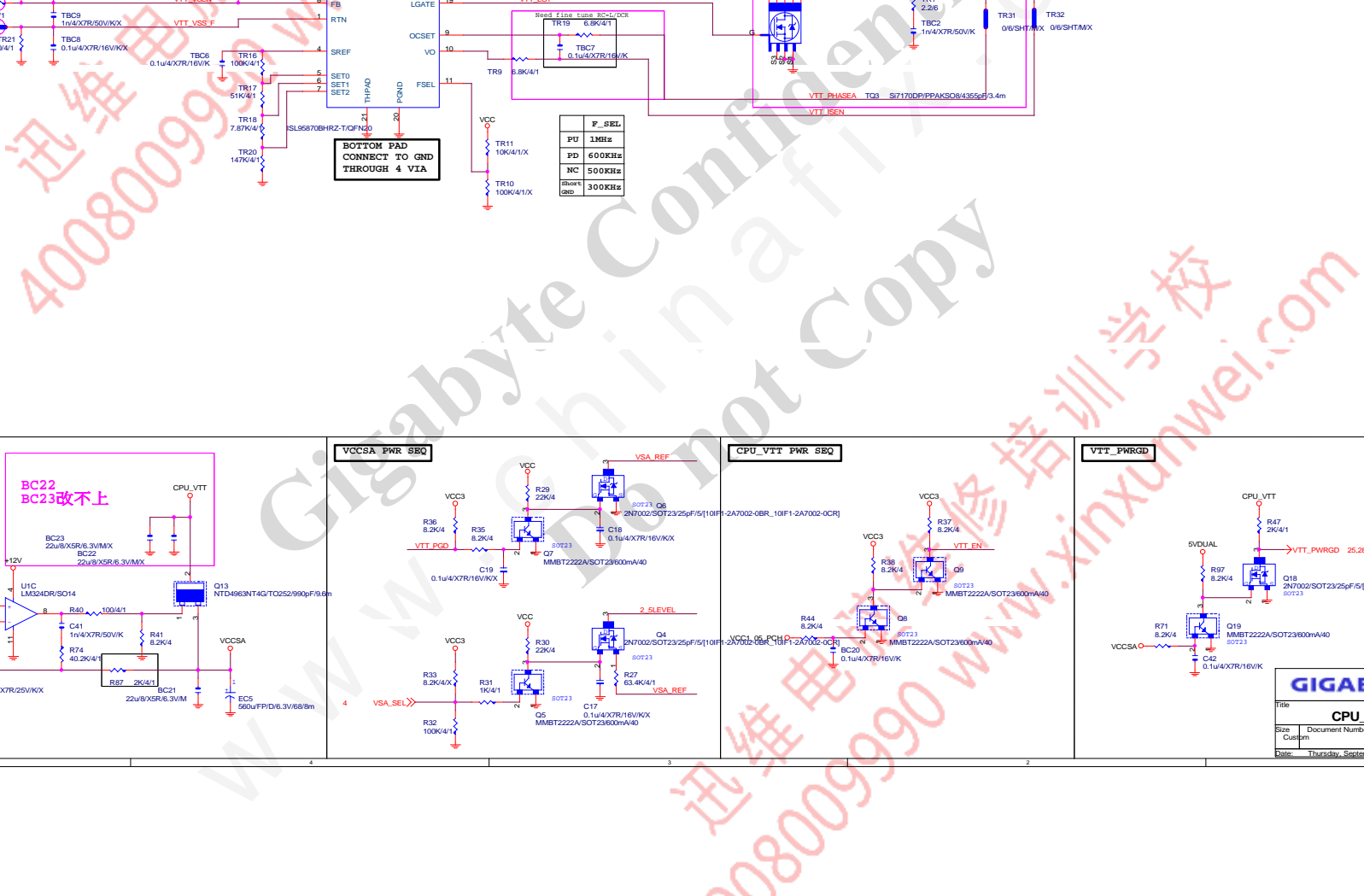
Title			HD AUDIO ALC887-VD2
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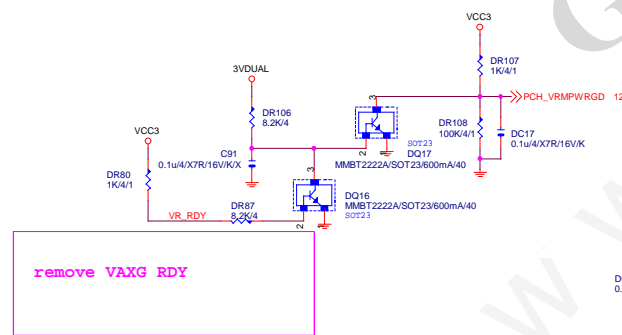
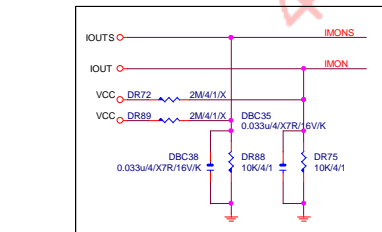




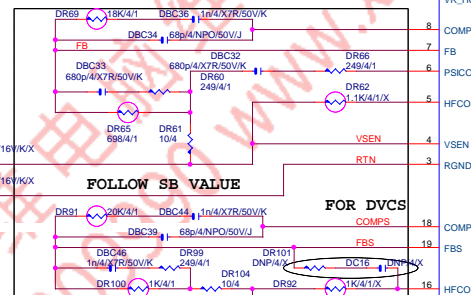
DR85 150 change to 51
 DR69 6.8K change to 11K
 DR82 0 change to 10
 DR62 2.1K change to 1.1K
 DR65 1.6K change to 1.1K
 DR57 100 change to 8.2K
 DR102 100 change to 8.2K
 DR54 short change to 750
 DR103 short change to 1K
 DR91 6.8K change to 10K
 DR100 3.3K change to 1K
 DR69 11K change to 20K
 DR54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

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

DR52 16.2K change to 24.9K

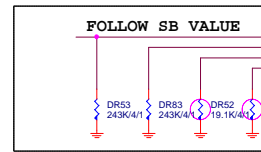


remove VAXG RDY



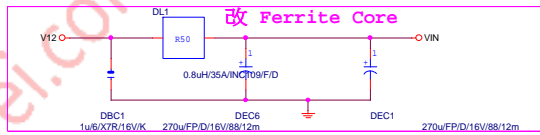
FOLLOW SB VALUE

FOR DVCS

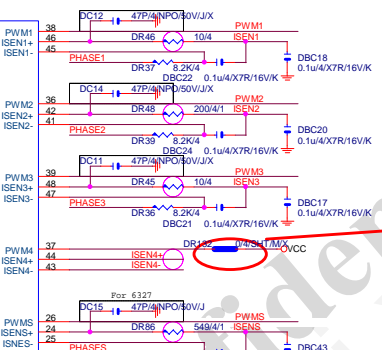


DR56 10K change to 0

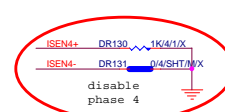
BOTTOM PAD
CONNECT TO
GND
THROUGH 10
VIA



DR46 DR48 DR45 DR47 change
to 10
DR86 change to 750



Disable
phase 4



disable
phase 4

PWM1
PWM2
PWM3
PWMS

ISEN1
ISEN2
ISEN3
ISENS

PHASE1
PHASE2
PHASE3
PHASE4

PWM1
PWM2
PWM3
PWMS

ISEN1
ISEN2
ISEN3
ISENS

PHASE1
PHASE2
PHASE3
PHASE4

PWM1
PWM2
PWM3
PWMS

ISEN1
ISEN2
ISEN3
ISENS

PHASE1
PHASE2
PHASE3
PHASE4

PWM1
PWM2
PWM3
PWMS

ISEN1
ISEN2
ISEN3
ISENS

PHASE1
PHASE2
PHASE3
PHASE4

PWM1
PWM2
PWM3
PWMS

ISEN1
ISEN2
ISEN3
ISENS

PHASE1
PHASE2
PHASE3
PHASE4

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CPU CORE VR-1

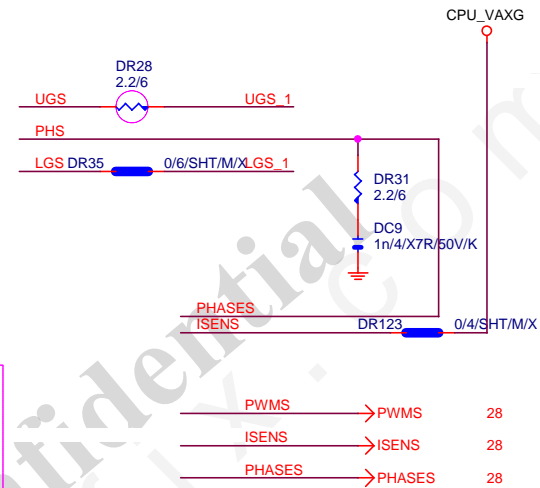
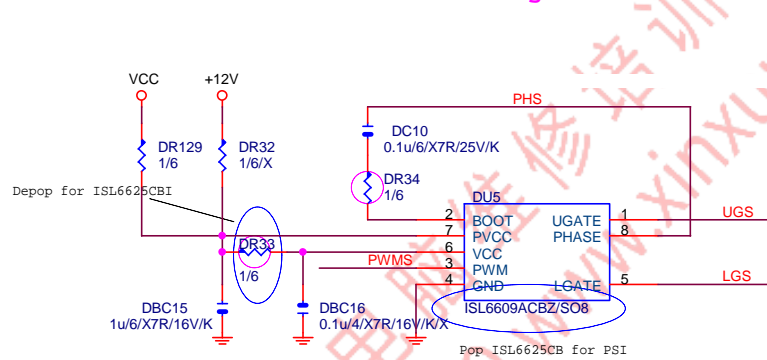
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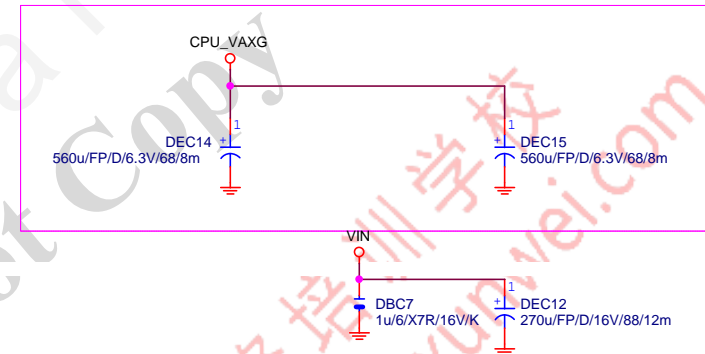
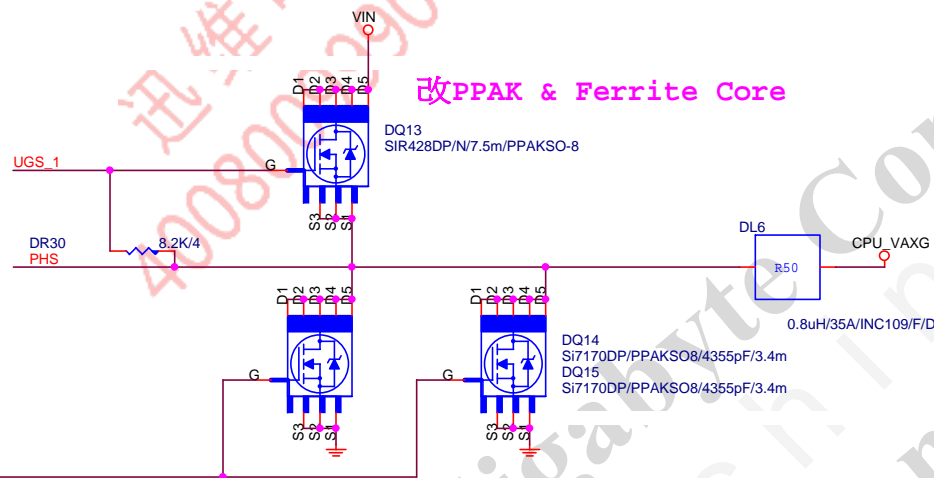
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VAXG

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

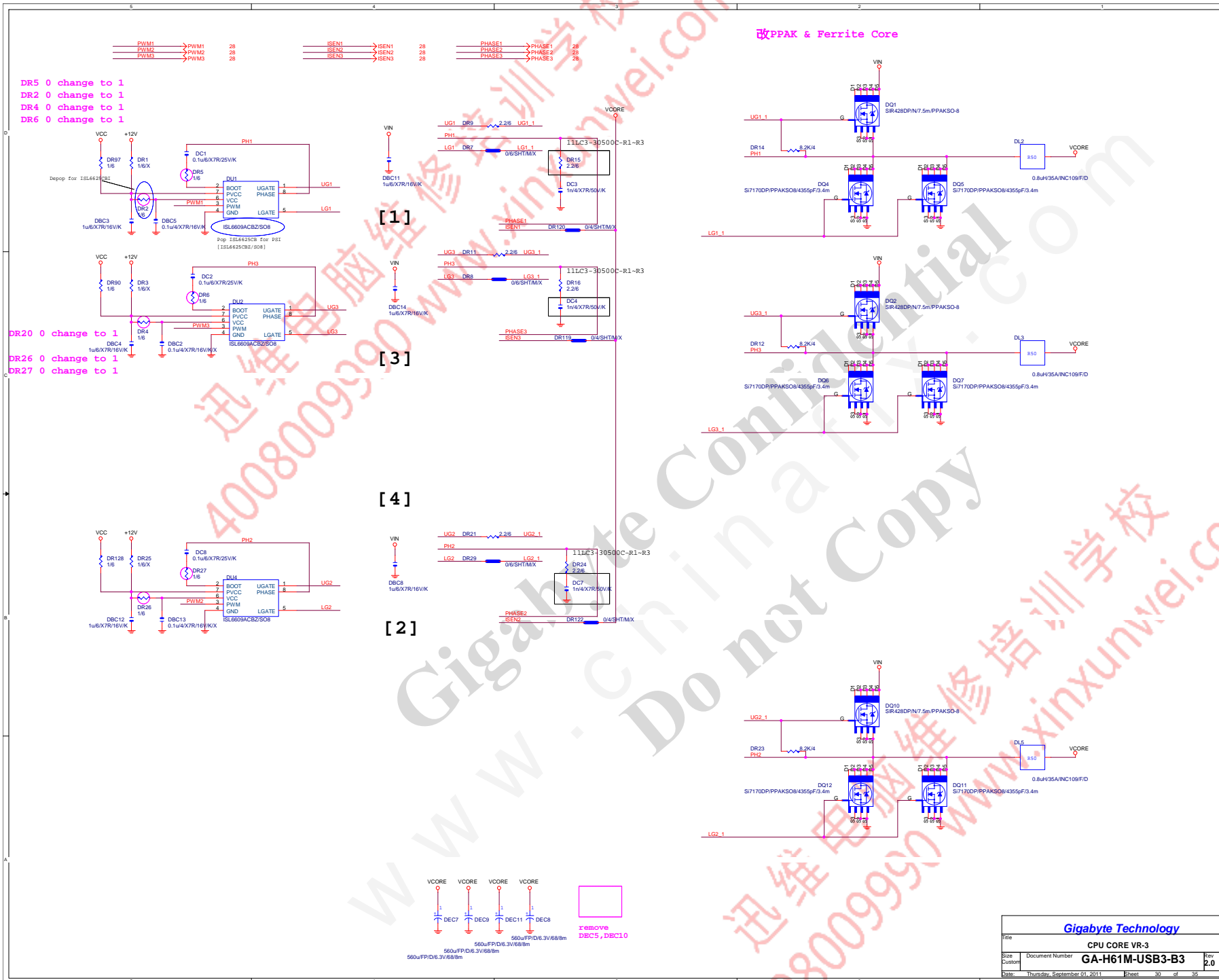


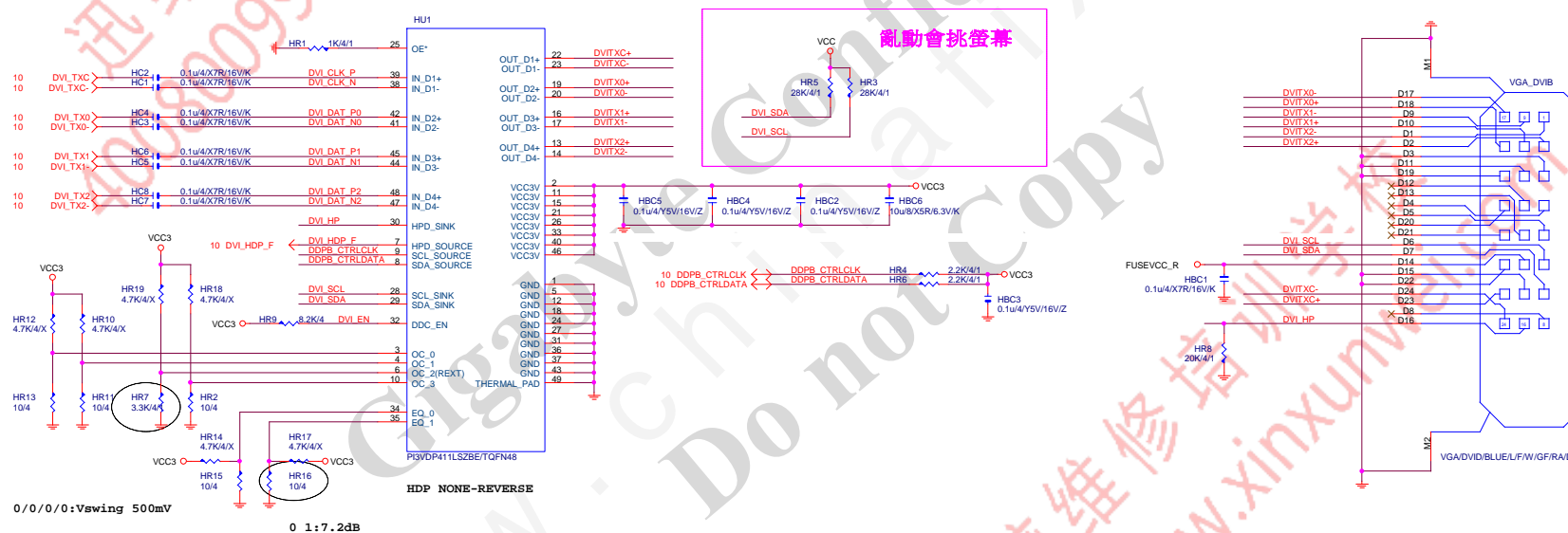
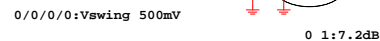
改PPAK & Ferrite Core



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CPU CORE VR-2		
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