

## SHEET

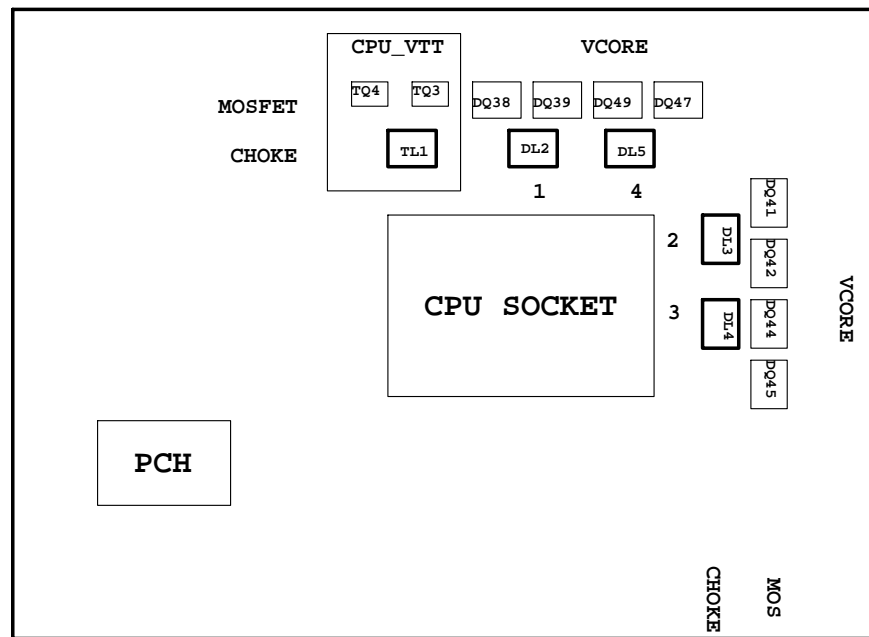
## TITLE

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08	DDR III CHANNEL B
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10	PCH_DP,CLK BUFFER
11	PCH_HOST,SATA,PCI
12	PCH_GPIO,CTRL,AUDIO
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## SHEET

## TITLE

28	VCCSA POWER
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30	ATX POWER, CLOCK GEN
31	HWM,KB/MS , FAN CTRL
32	REALTEK RTL8111E
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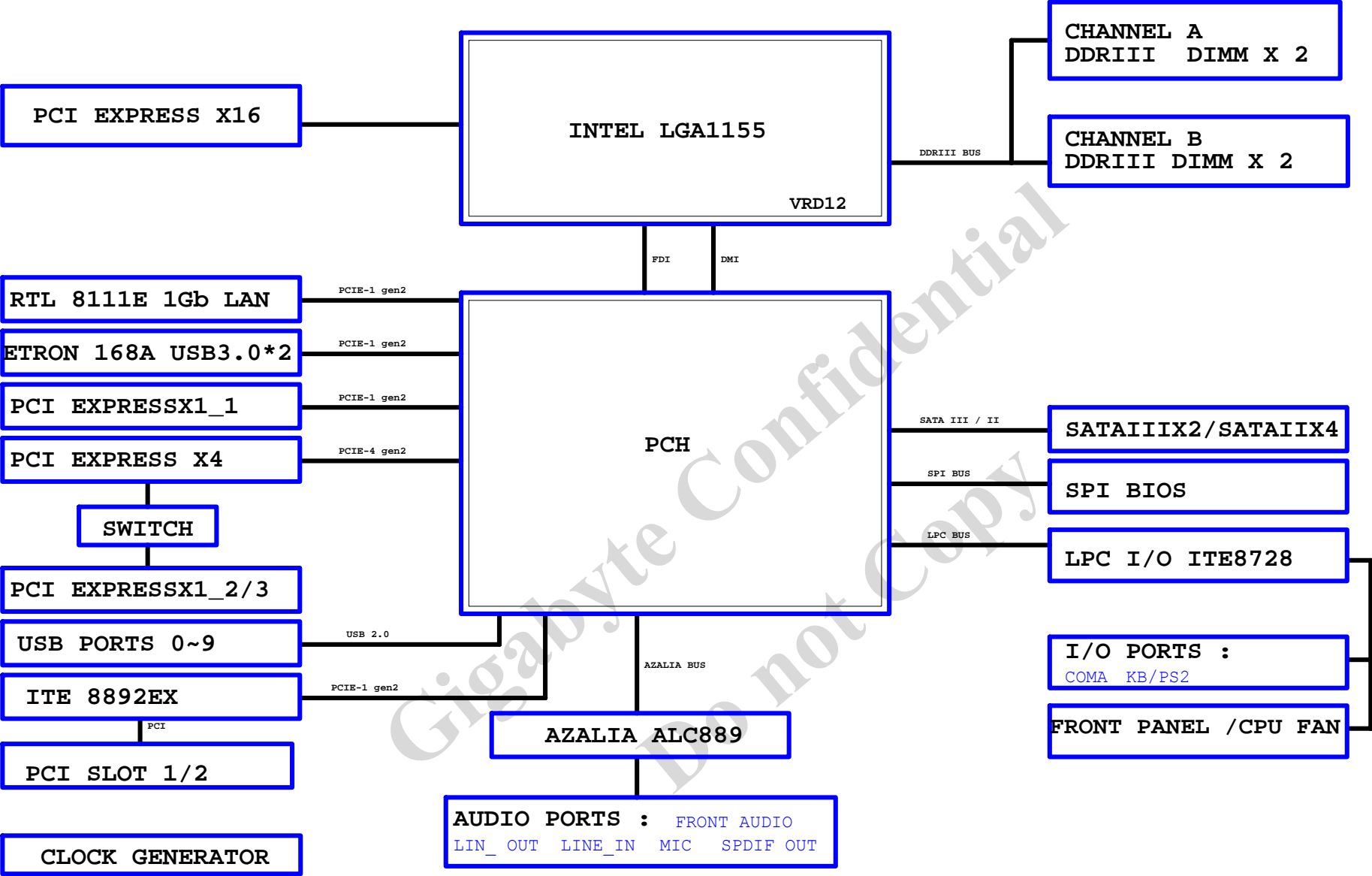


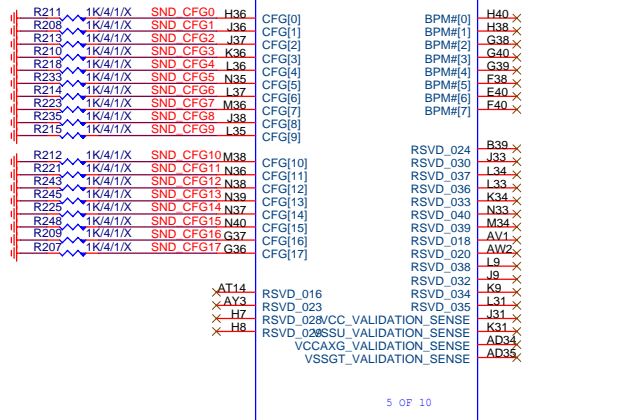
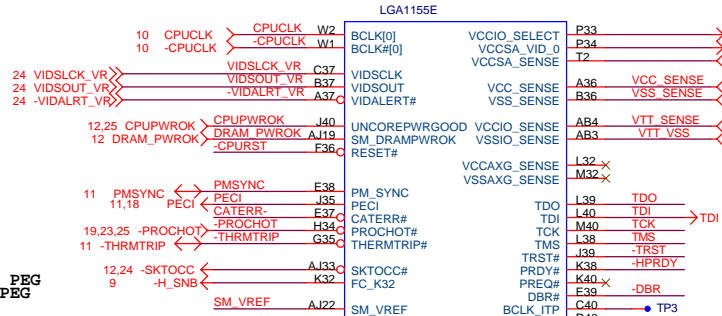
Gigabyte Technology

Title			
Cover Sheet			
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BLOCK DIAGRAM

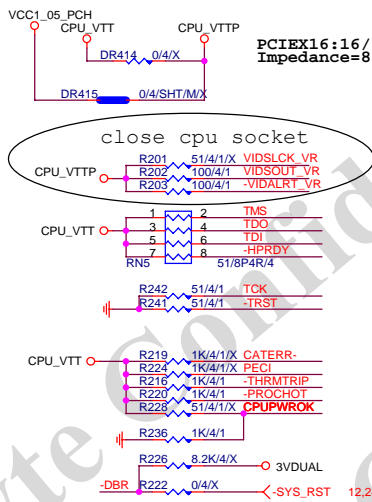
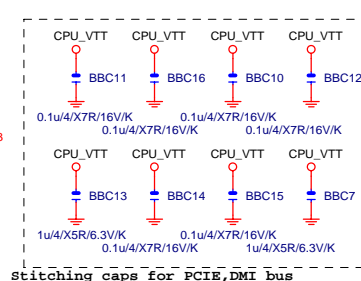
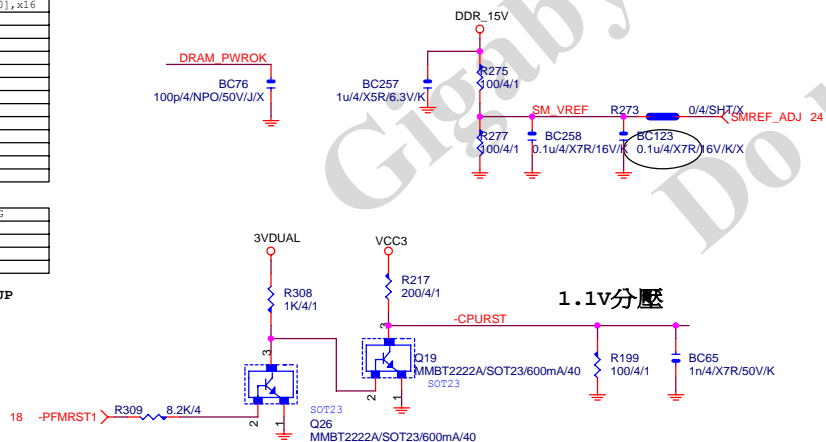
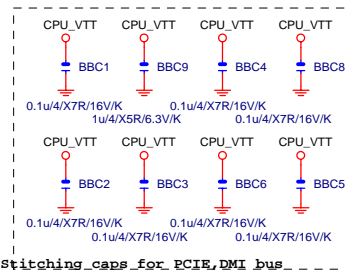
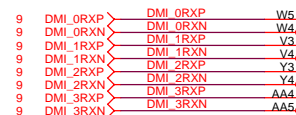




CFG	H	L	NOTE
0	RSVD	RSVD	RSVD
1	RSVD	RSVD	RSVD
2	NORM	Reverse	LAKE REVERSAL[0],x16
3	RSVD	RSVD	RSVD
4	RSVD	RSVD	RSVD
7	RSVD	RSVD	RSVD
8	RSVD	RSVD	RSVD
9	RSVD	RSVD	RSVD
10	RSVD	RSVD	RSVD
11	RSVD	RSVD	RSVD
12	RSVD	RSVD	RSVD
13	RSVD	RSVD	RSVD
14	RSVD	RSVD	RSVD
15	RSVD	RSVD	RSVD
16	RSVD	RSVD	RSVD
17	RSVD	RSVD	RSVD

CFG6	CFG5	PCIE CONFIG
1	1	1X16, Default
1	0	2X8
0	1	RSVD
0	0	X8,X4,X4

CFG 0-17 all internal PULL-UP

DMI:12/4/5/4/12(breakout min 8/4/4/4/8)  
Impedance=85 +- 17.5%

FDI:4/5(SINGLE END)

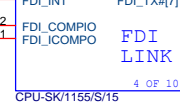
AC5  
AC4

FDI:4/5(SINGLE END)

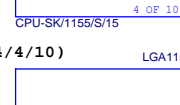
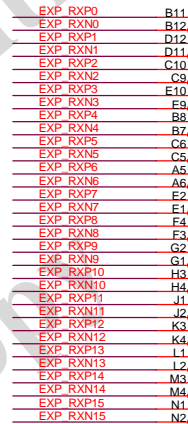
AE5  
AE4

FDI:4/5(SINGLE END)

AG3



FDI:10/5(SINGLE END)

AE2  
AE1PCIEX16:16/5/5/5/16(breakout min 10/4/4/4/10)  
Impedance=80 +- 17.5%

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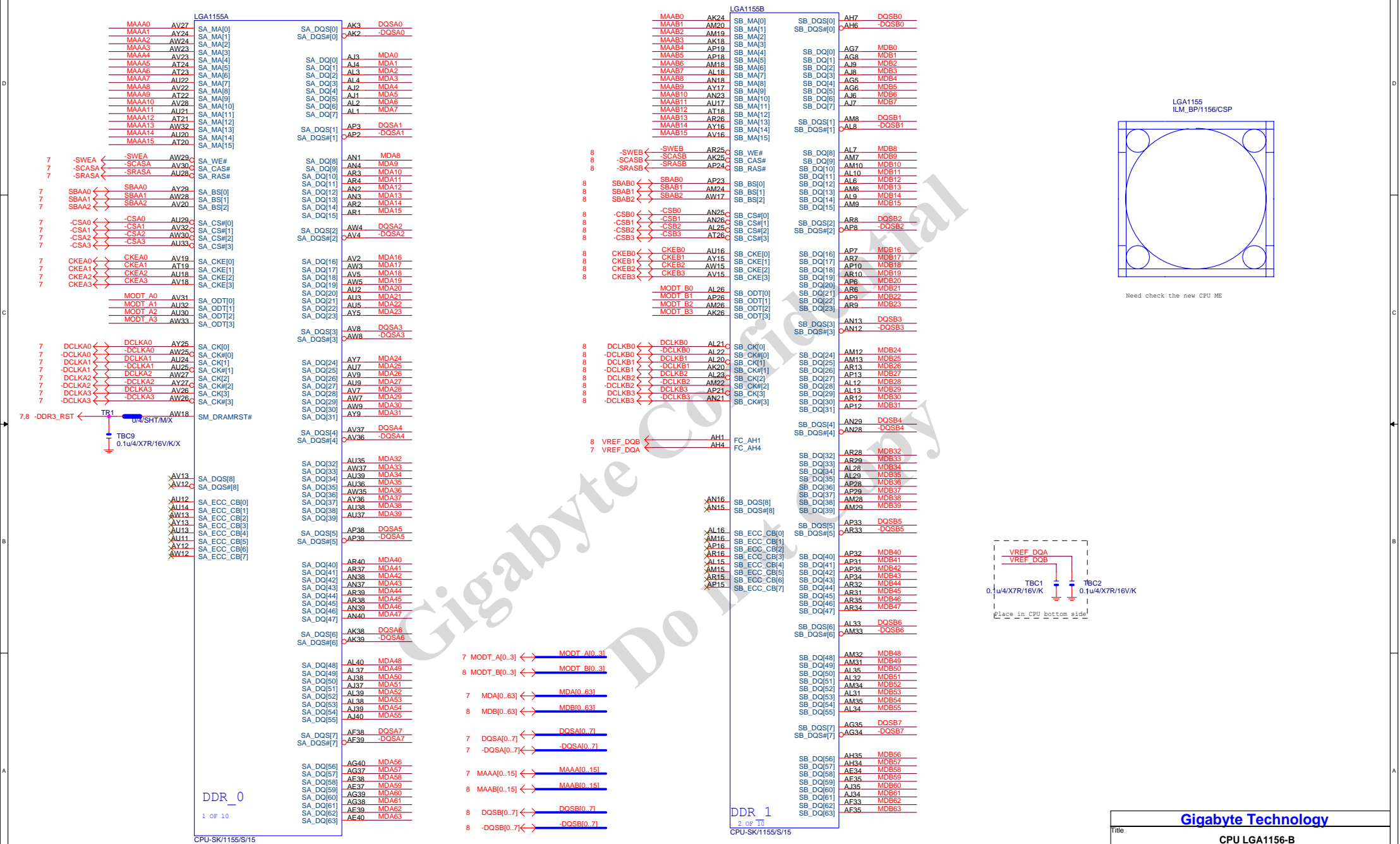
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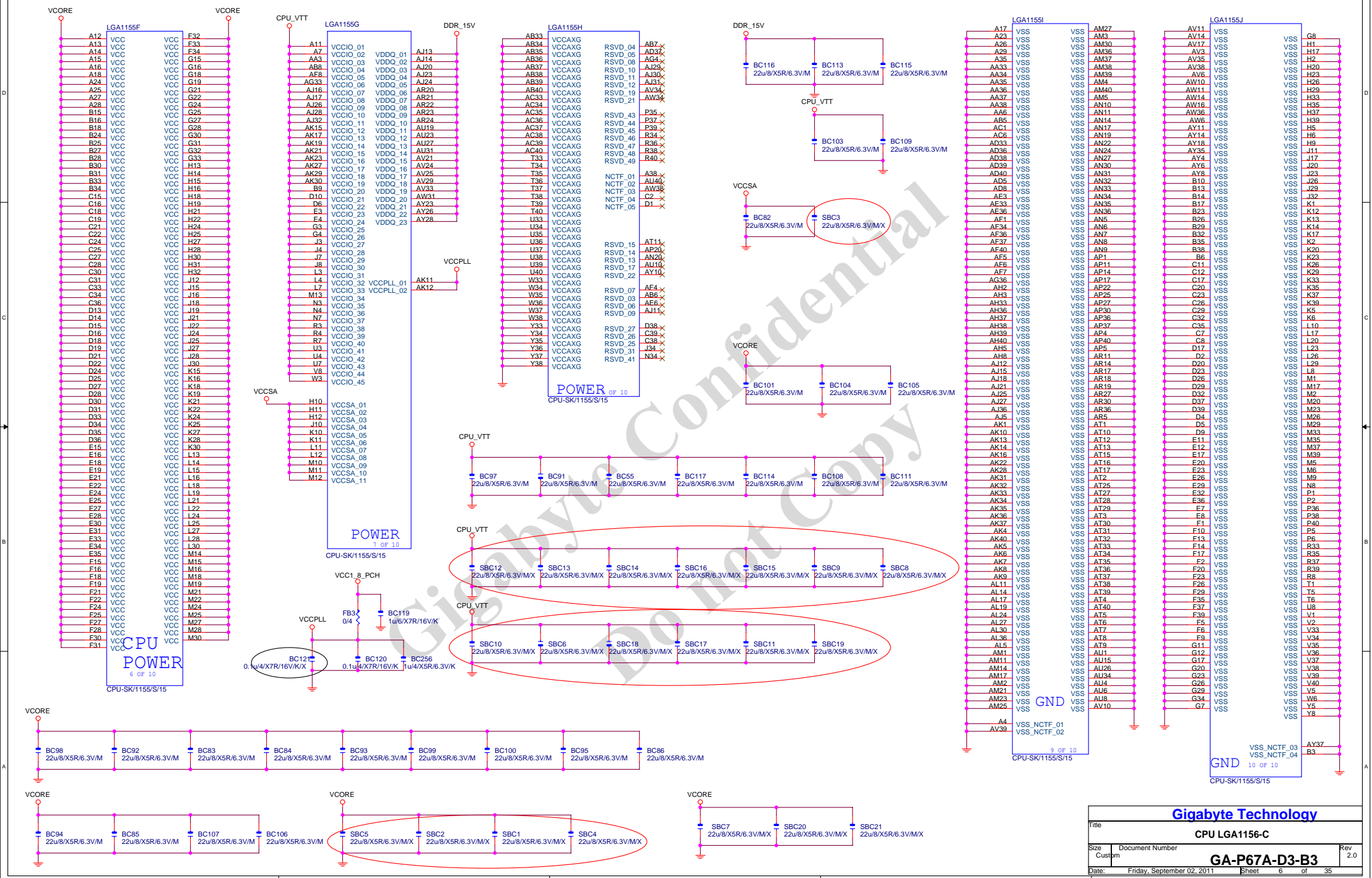
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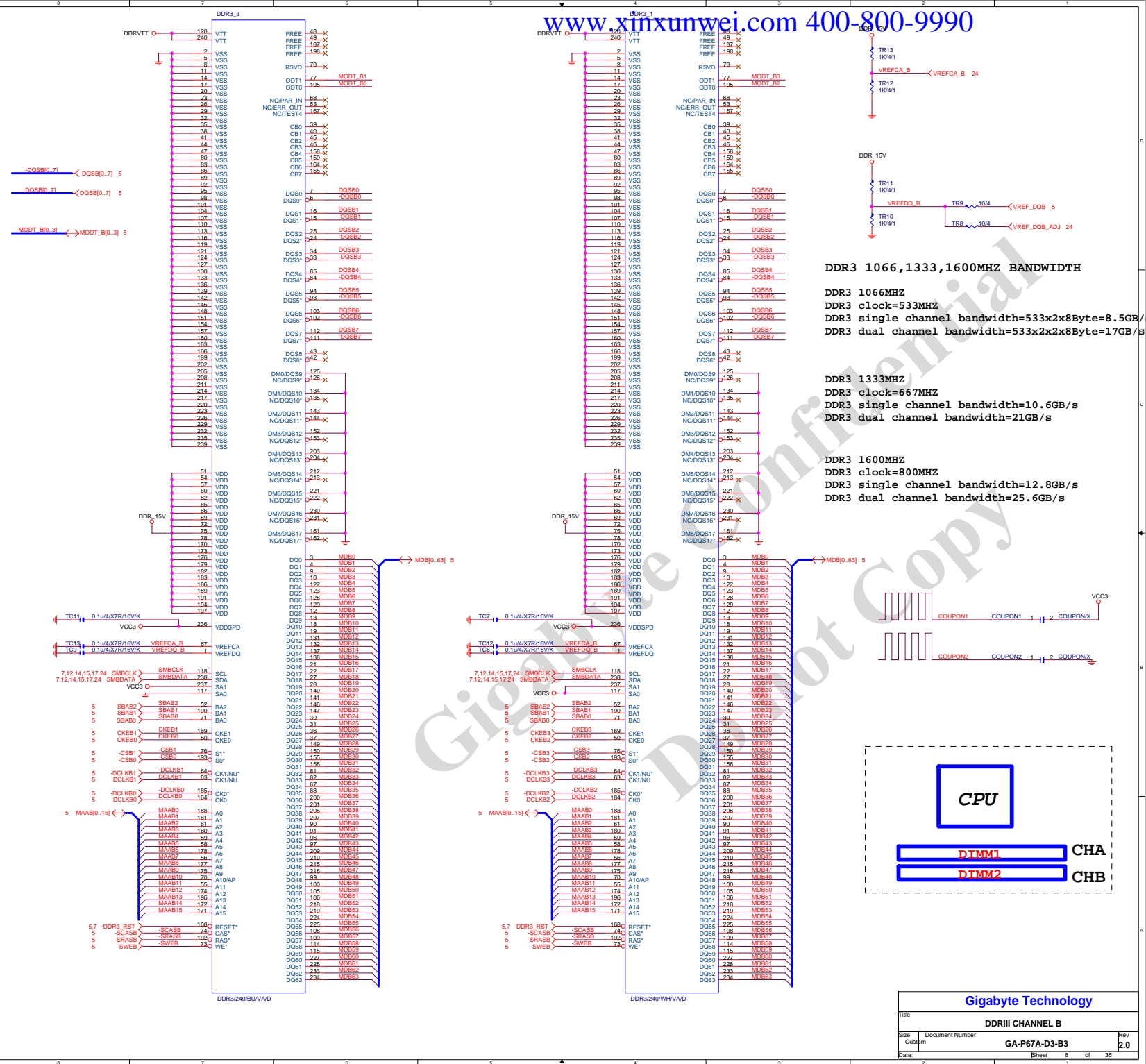
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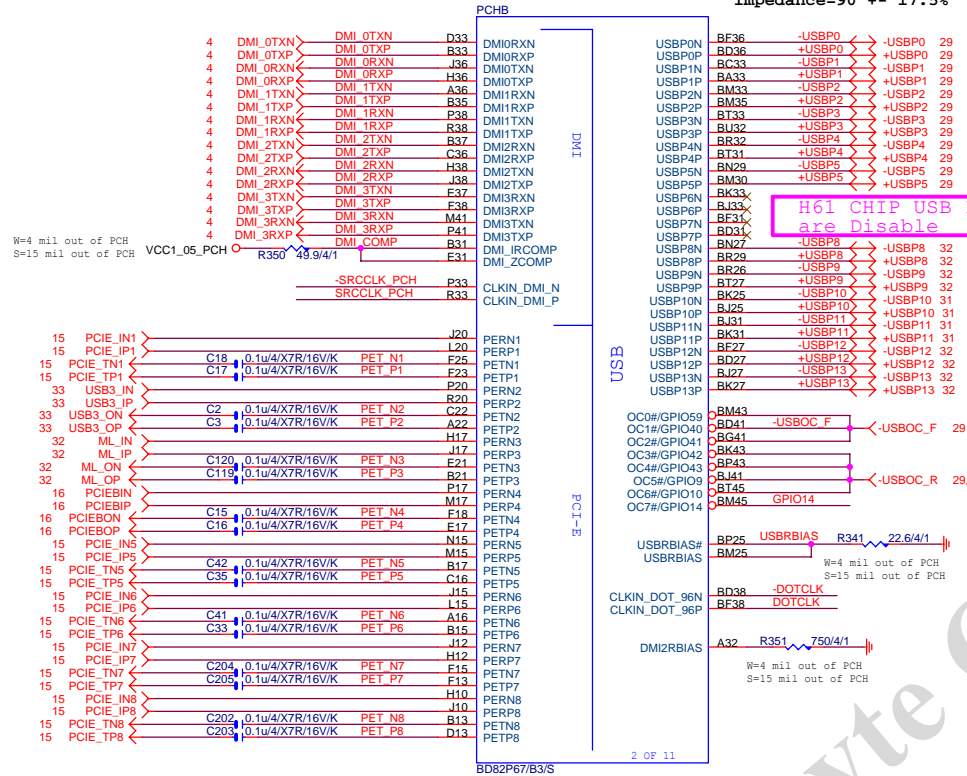






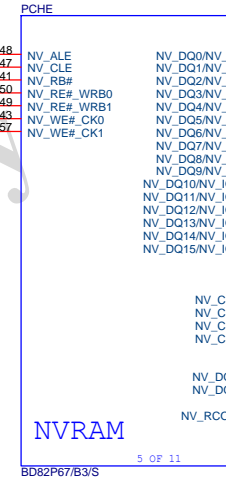
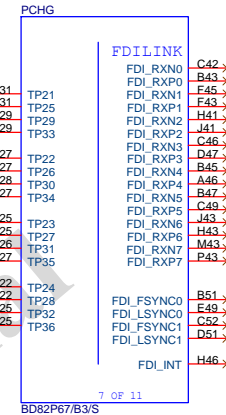


USB:12/7.5/4.5/7.5/12 (breakout min 8/4/4/4/8)  
Impedance=90 +/- 17.5%

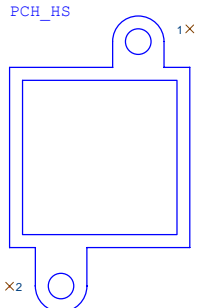
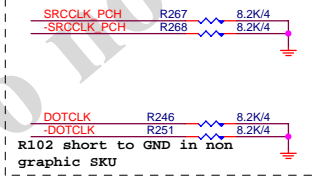
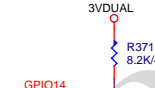
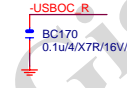
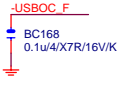
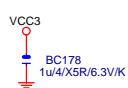


OC[3:0]# for  
Device 29  
(ports 0-7)  
OC[7:4]# for  
Device 26  
(ports 8-13)

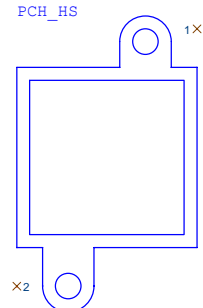
USB OC# Configure	
OC0#	USB0,1
OC1#	USB2,3
OC2#	USB4,5
OC3#	USB6,7
OC4#	USB8,9
OC5#	USB10,11
OC6#	USB12,13
OC7#	Not Use



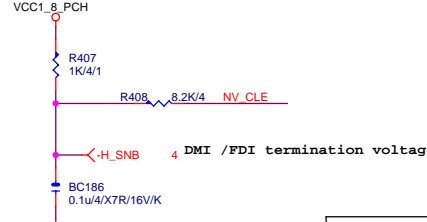
放靠近 Device & PCI-E Slot  
PCIEX1:16/5/5/5/16 (breakout min 8/4/4/4/8)  
Impedance=80 +/- 17.5%

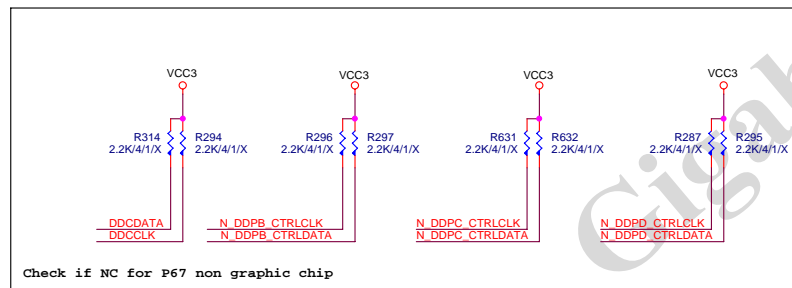
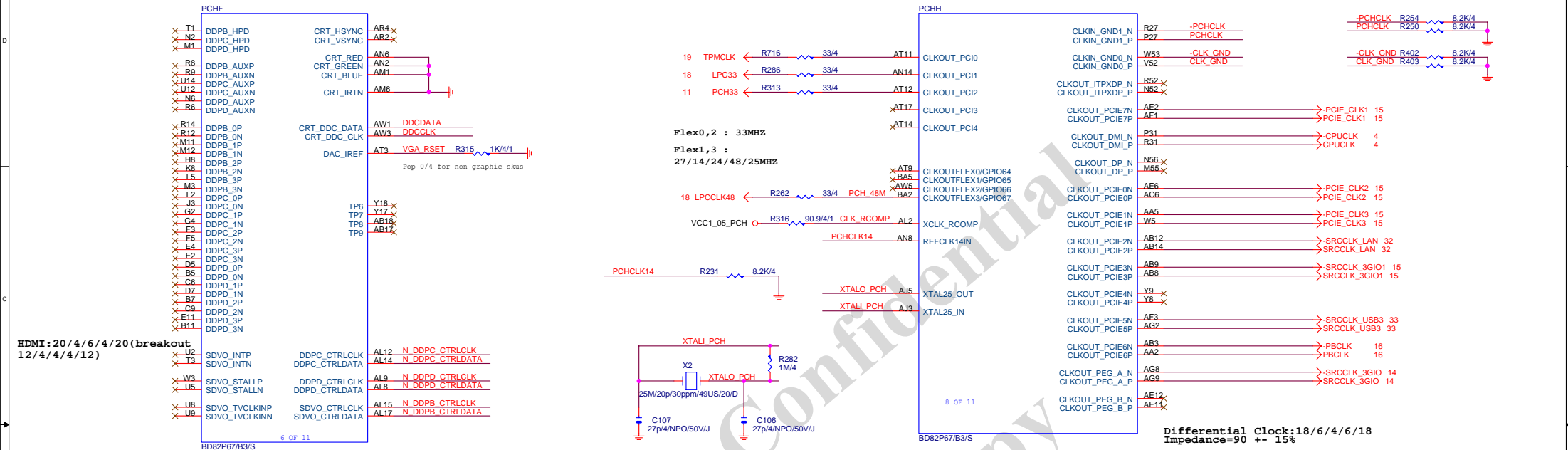


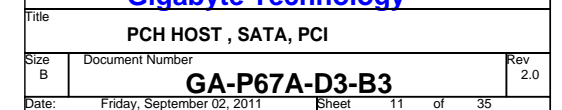
**P67/ H67  
MODEL上的HS**  
PCH HS 無銘板  
(1) 12SP2-050073-11R---國格  
(2) 12SP2-050073-12R---志航  
(3) 12SP2-050072-13R---信緯

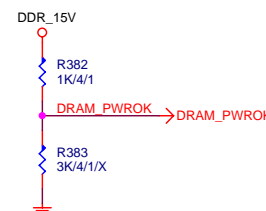
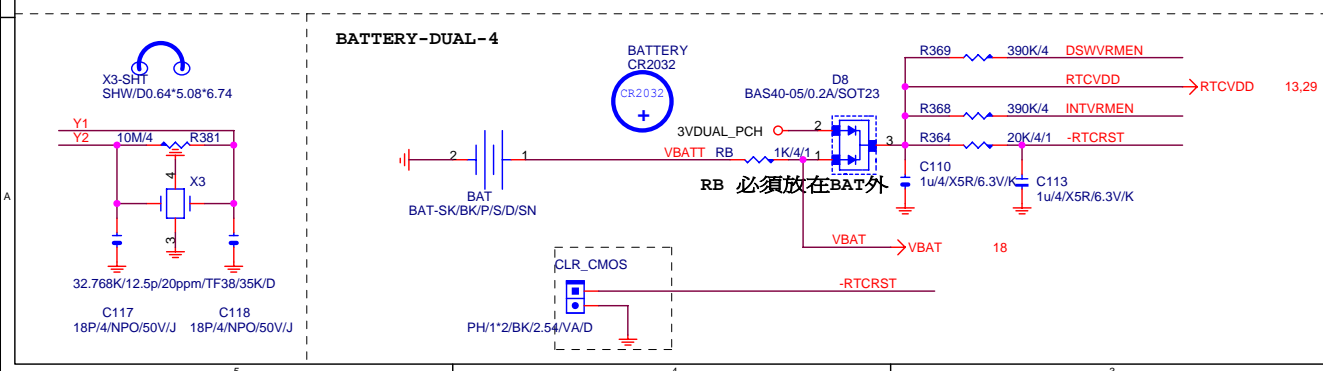
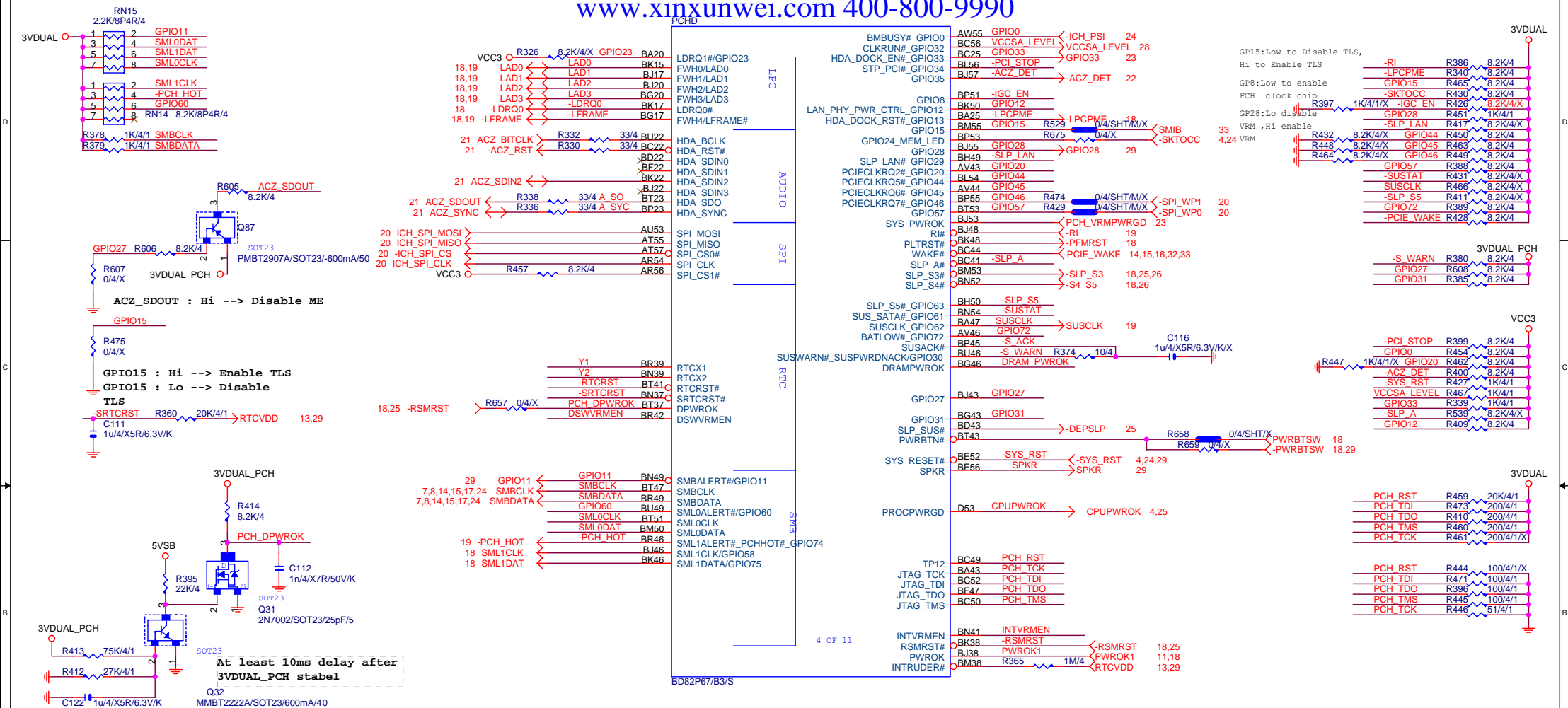


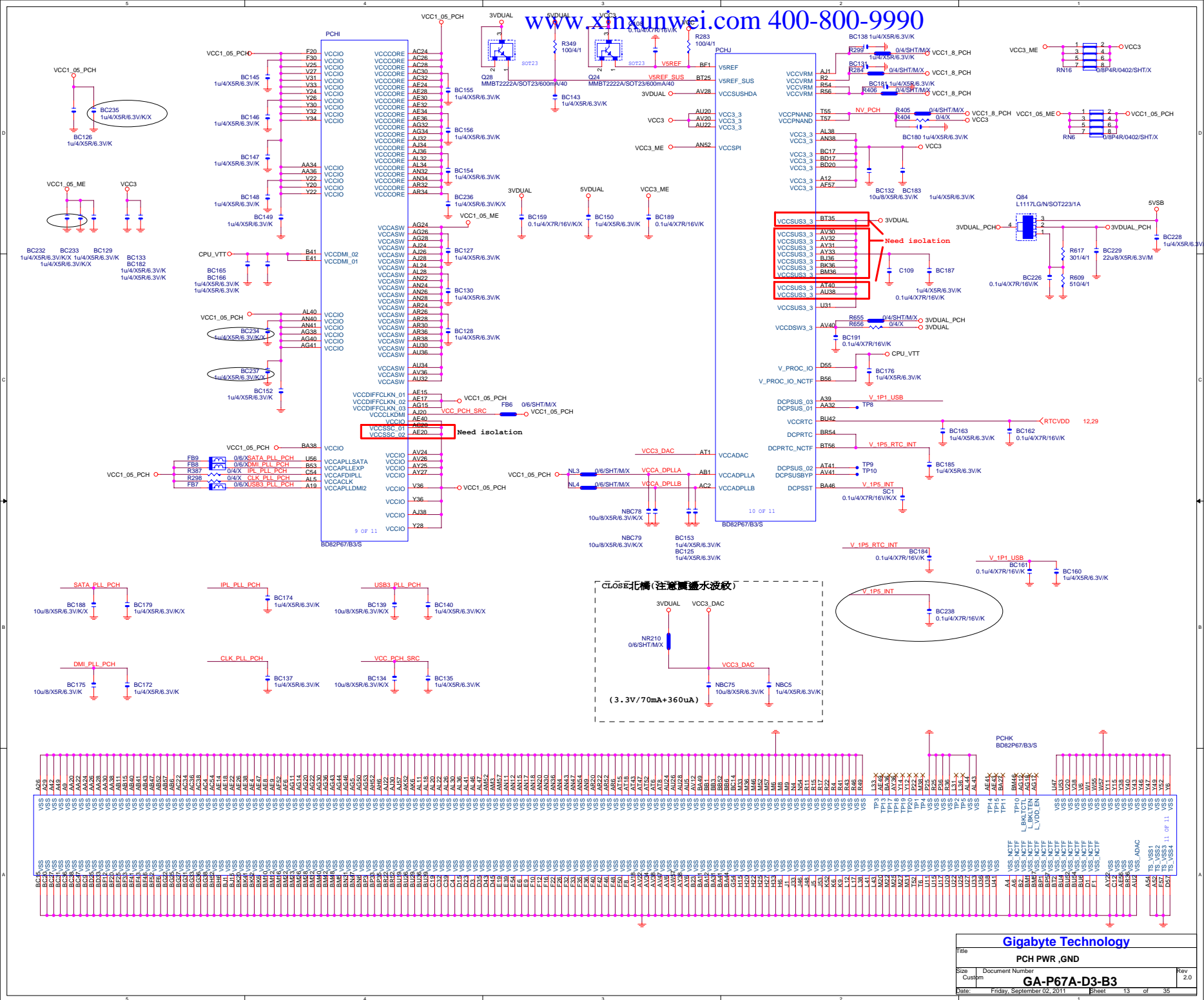
**Z68  
MODEL**









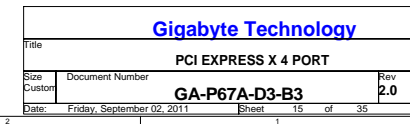


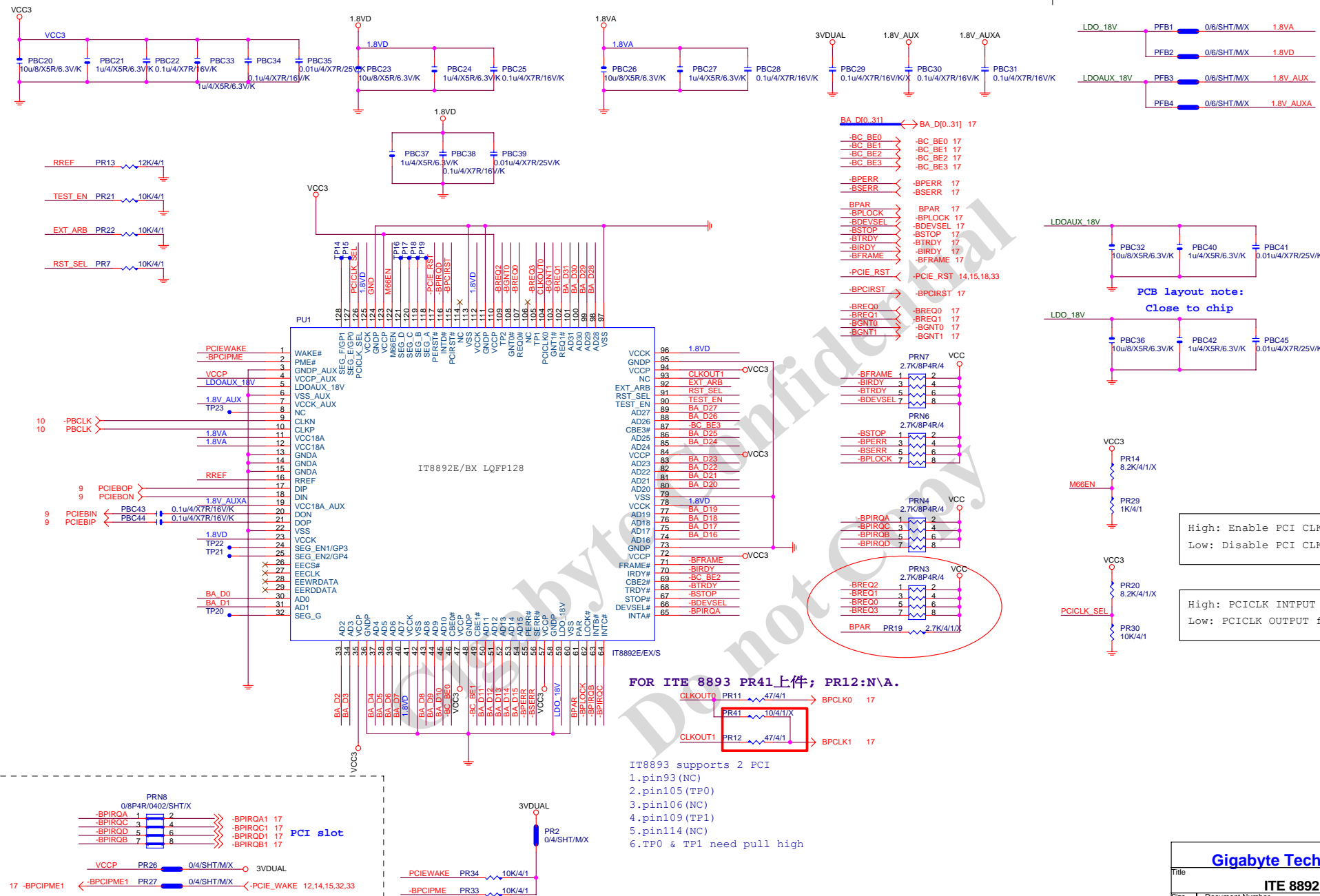




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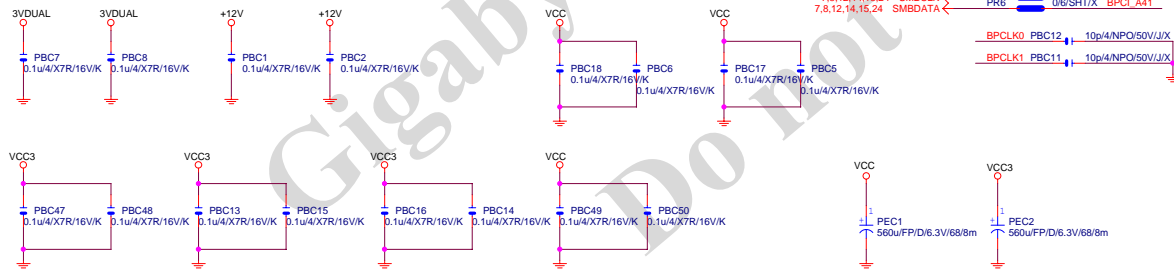
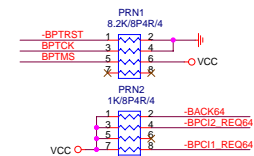
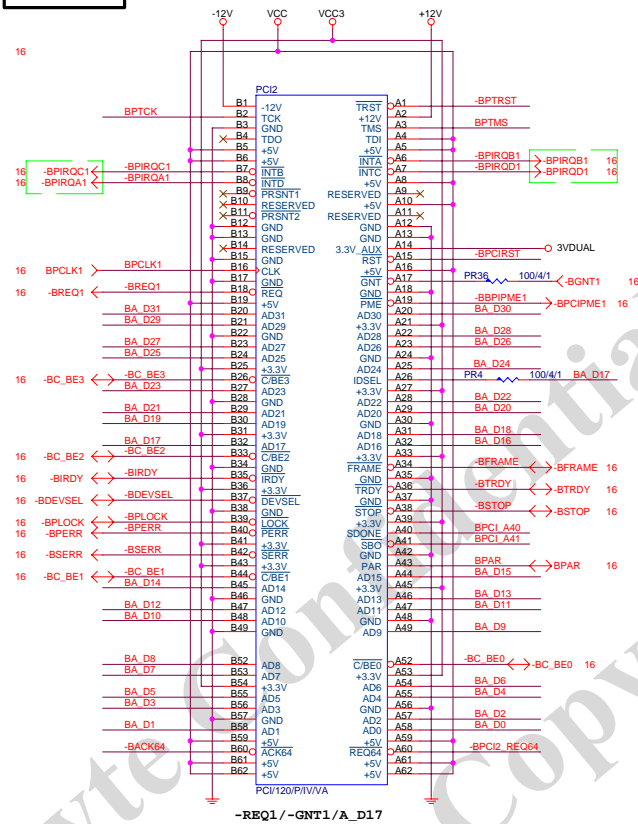
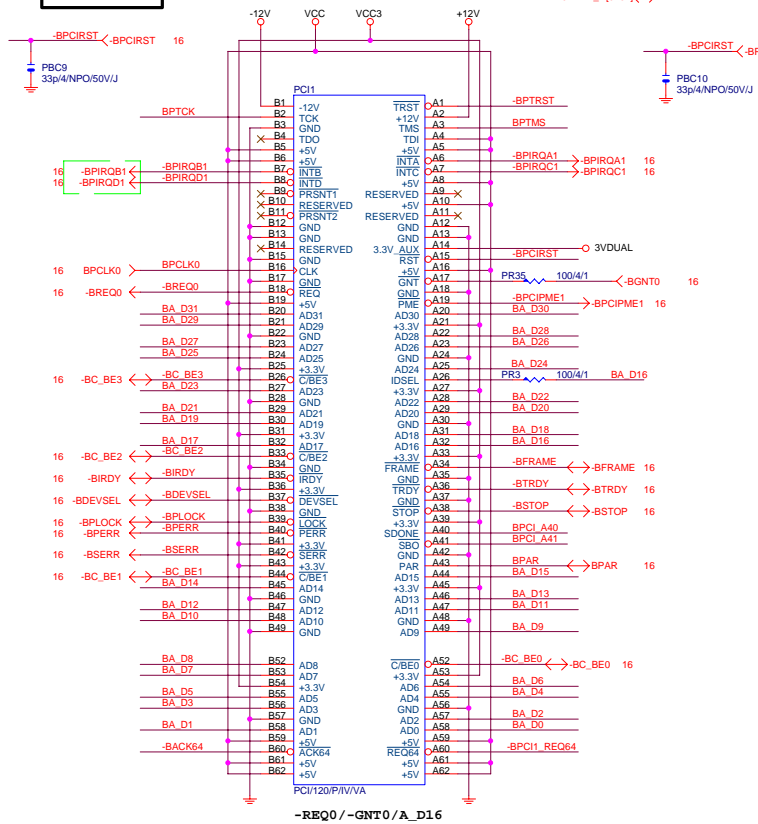






PCI SLOT 1

PCI SLOT 2

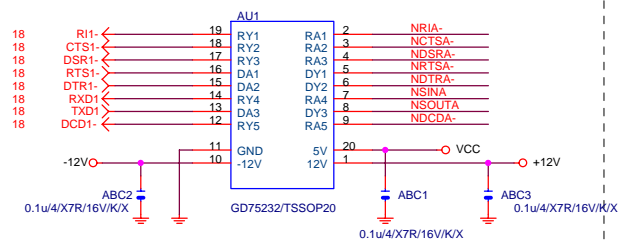


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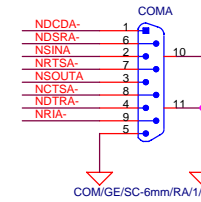
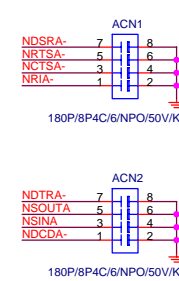
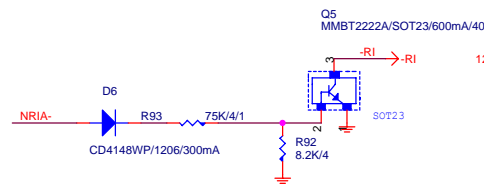
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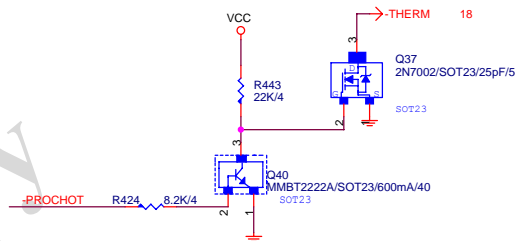
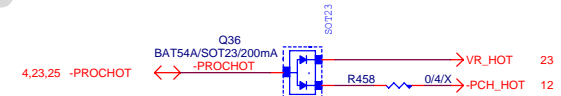
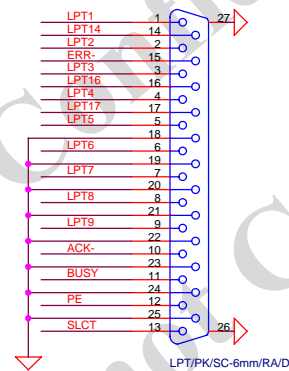
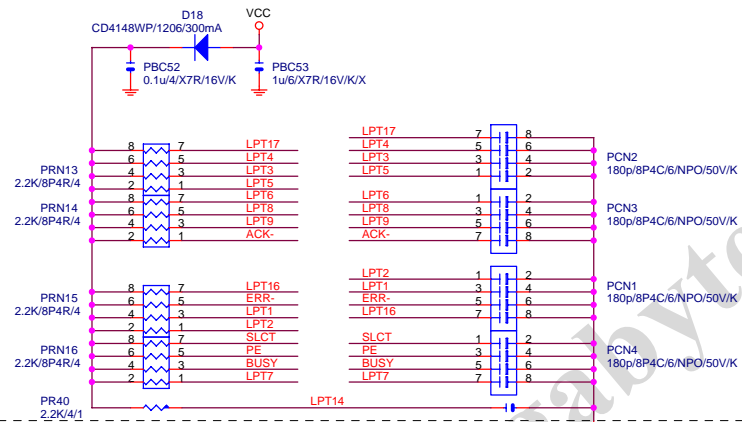
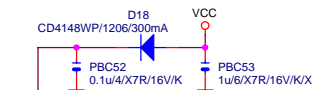
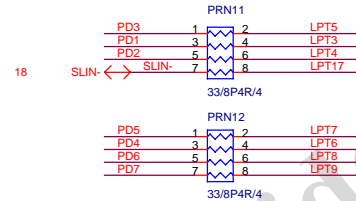
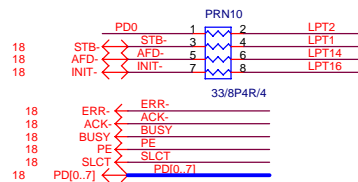
COMA



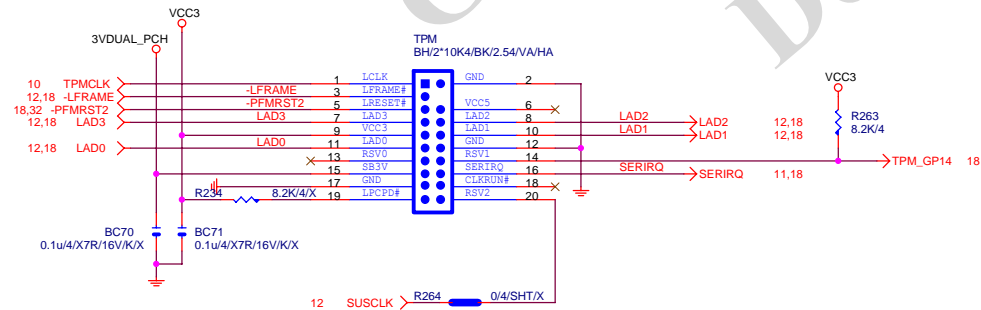
COM RI

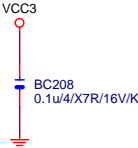


## LPT PORT



TPM



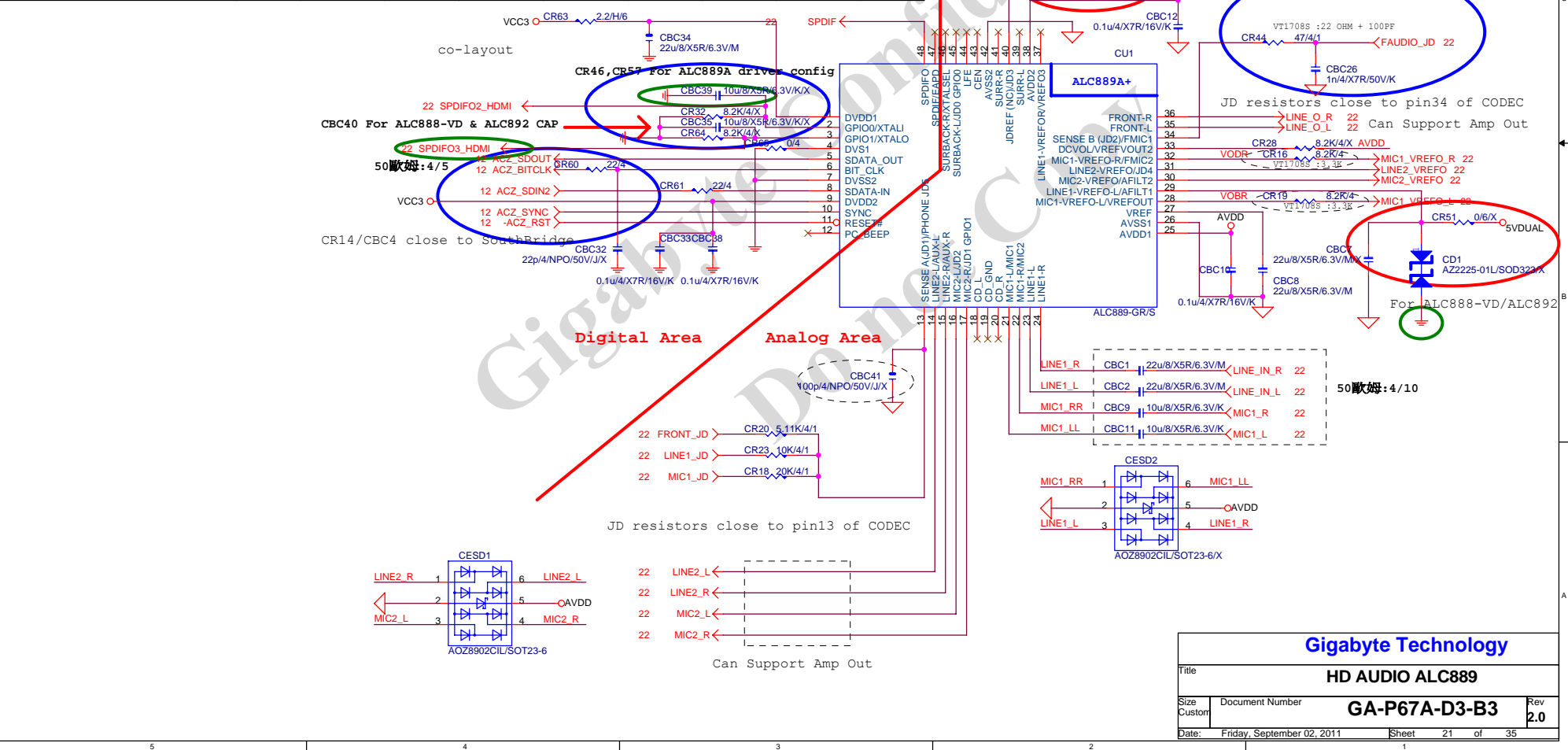


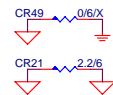
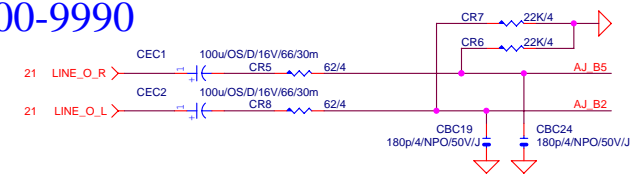
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Title		BIOS	
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Custom			2.0
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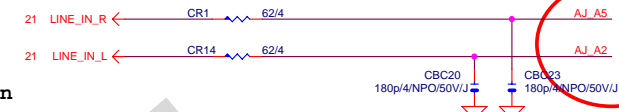
	ALC883	ALC888-VA	ALC888B	ALC888-VD	ALC892R	ALC889	ALC889A	ALC889 New Bonding	ALC898	ALC892
CR32	X	X	X	X	X	X	O	X	X	X
CR64	X	X	X	X	X	X	O	X	X	X
CR65	O	O	X	X	X	O	O	O	O	X
CBC35	X	X	X	10uF/X5R	10uF/X5R	X	X	X	10uF/X5R	X
CR28	O	X	X	X	X	X	X	X	X	X
CR34	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/1%	20K/0.1%	20K/1%	20K/1%	20K/1%
CR31	X	X	O	X	O	O	X	X	O	O
CR30	O	O	X	O	X	X	O	X	X	X
CBC1/CBC2/CBC5/CBC6/CBC9/CBC11	4.7uF/X5R	4.7uF/X5R	4.7uF/X5R	4.7uF/X5R	4.7uF/X5R	10uF/X5R	4.7uF/X5R	10uF/X5R	4.7uF/X5R	4.7uF/X5R
CR5/CR8/CR11/CR4/CR17/CR22/CR45/CR33/CR47/CR40/CR26/CR37/CR13/CR11/CR57/CR53	75 ohm	75 ohm	75 ohm	75 ohm	75 ohm	62 ohm	75 ohm	62 ohm	75 ohm	75 ohm
CR51/CD1/CBC7	X	X	X	O	X	X	X	X	O	O
CD2/CD3/CQ3/CQ5	O	O	O	X	O	O	O	O	X	X
CBC1/CBC2	10uF	10uF	10uF	10uF	10uF	22uF	10uF	22uF	10uF	10uF
CR66	X	X	X	X	X	X	X	O	X	X
CBC39	X	X	X	X	X	X	X	10uF	X	X



[illegible]

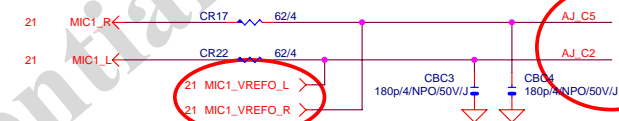
## LINE-IN

Only reserved for ALC888

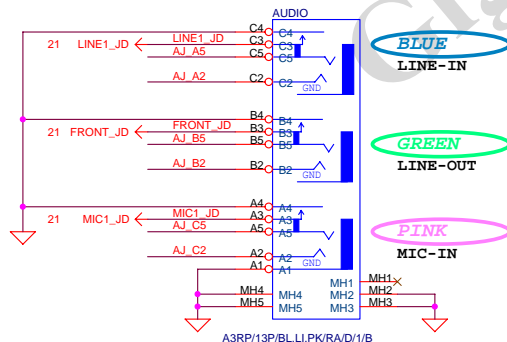
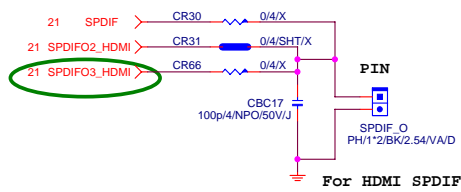
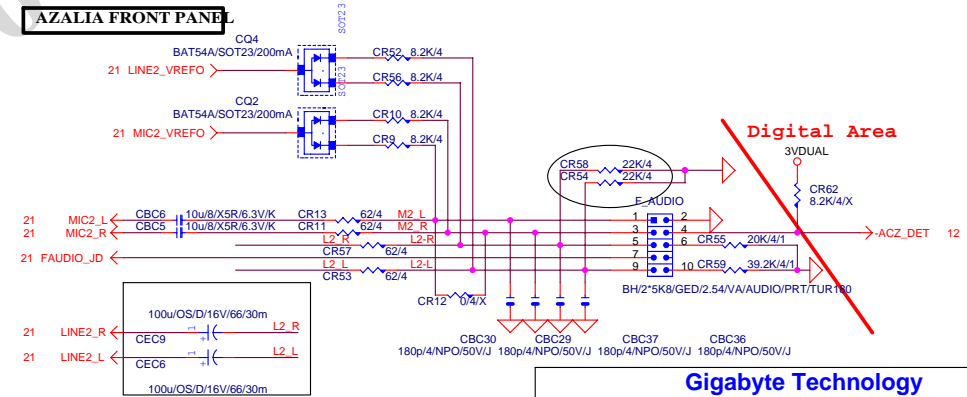


## MIC-IN

Verify MIC function  
in LINE-in



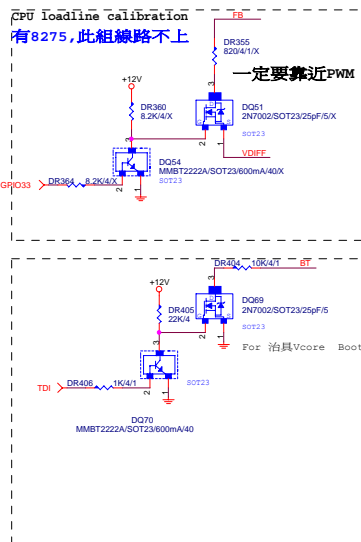
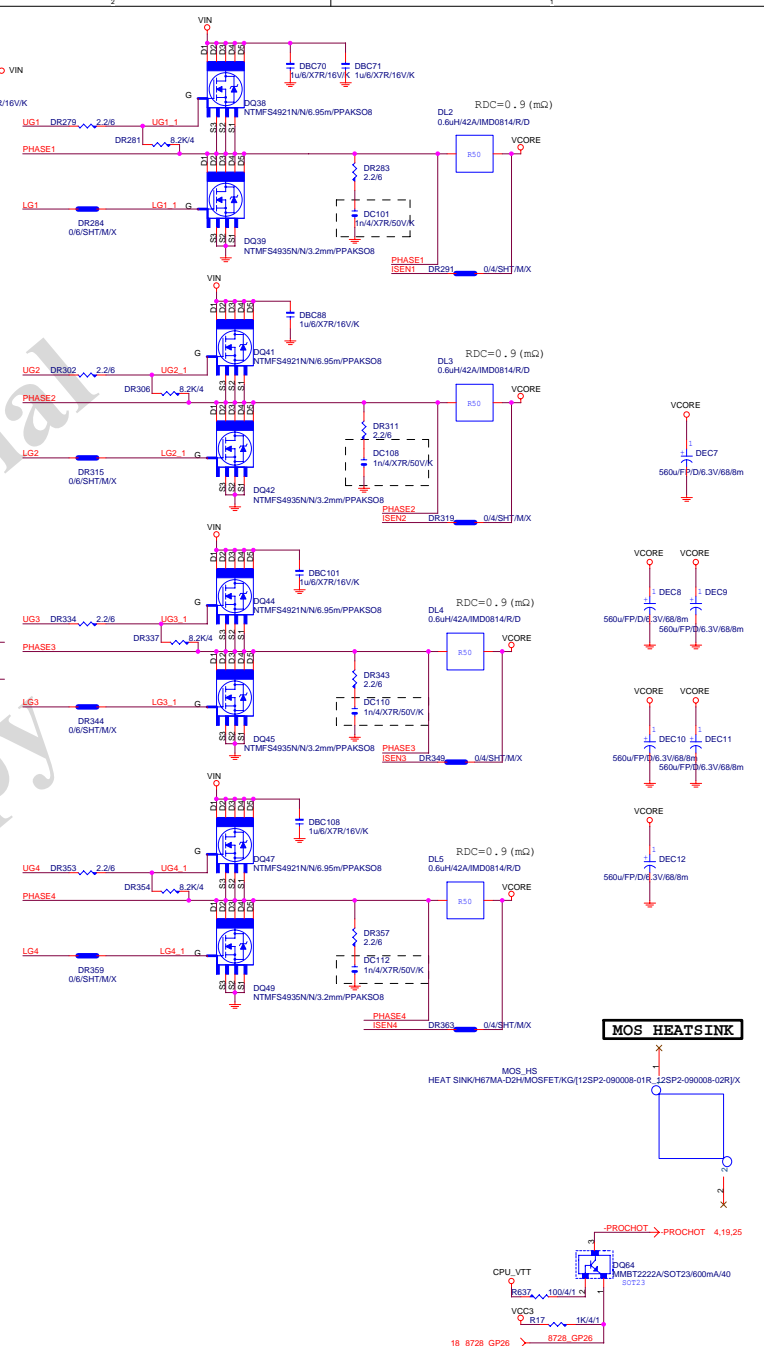
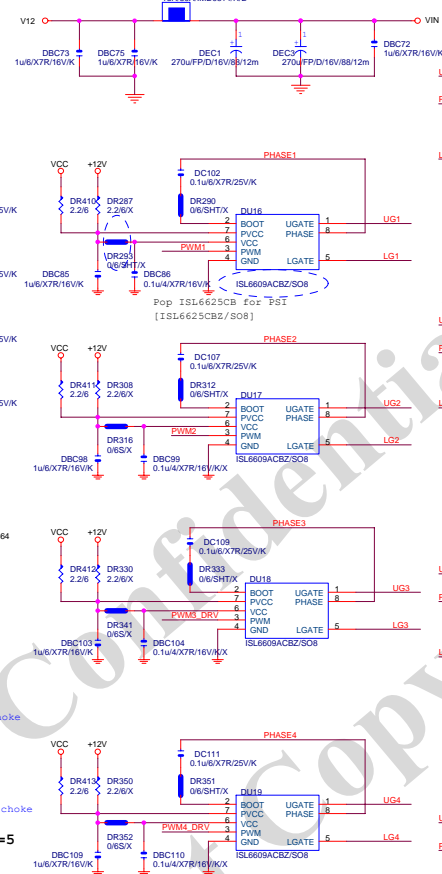
## SPDIF\_OUT

**AZALIA FRONT PANEL**

**Digital Area**

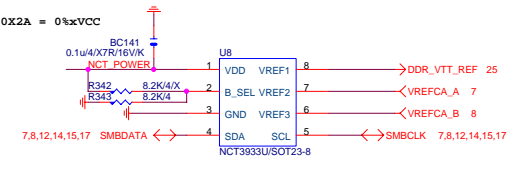
## Gigabyte Technology

Title			
AUDIO JACK			
Size Custom	Document Number	GA-P67A-D3-B3	Rev 2.0
Date:	Friday, September 02, 2011	Sheet	22 of 35

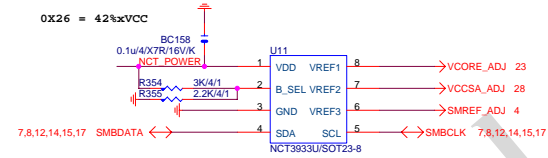
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Title			
ISL6366 for VR12 DT			
Size	Document Number	Rev	
Custom	GA-P67A-D3-B3	2.0	
Date:	Friday, September 02, 2011	Sheet	23 of 35

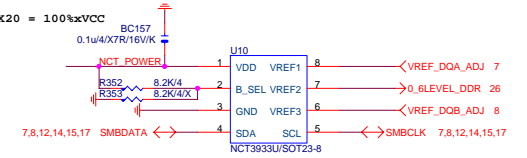
0X2A = 0%xVCC



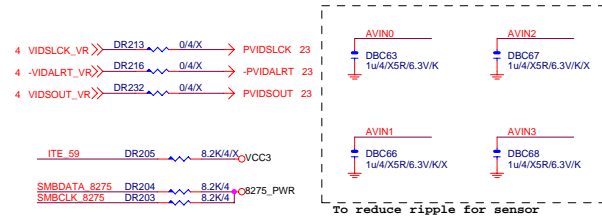
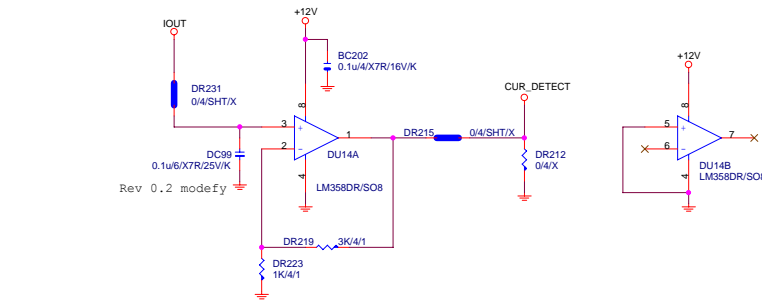
0X26 = 42%xVCC



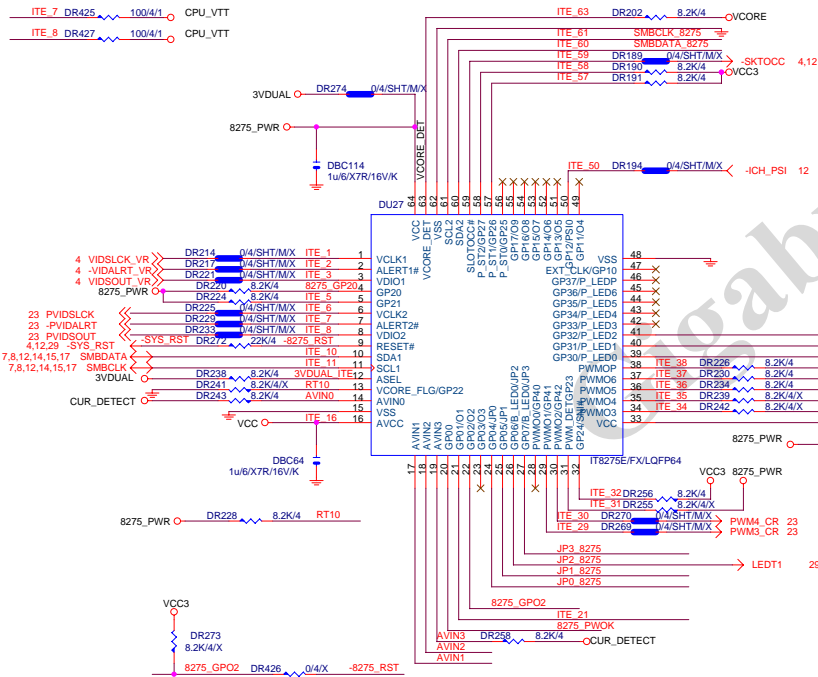
0X20 = 100%xVCC



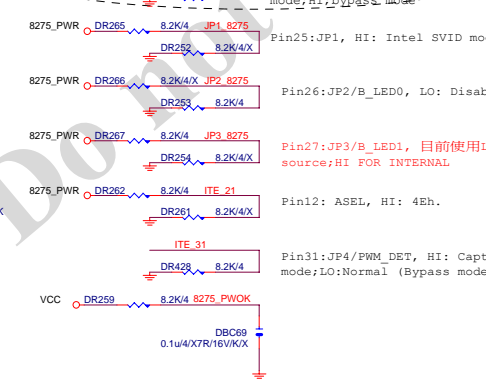
up6262	0X2A	0X20	0X22	0X26
VREF1	DDRVTT	VREF_DDRA_DQ	VCC1_05_PCH	VCORE
VREF2	VREF_DDRA_CA	DDR15V	VCC1_8_PCH	VCCSA
VREF3	VREF_DDRA_CAVREF_DDRB_DQ	CPU_VTT		SMREF



ITE\_1 DR430 51/4/1 CPU\_VTT  
 ITE\_3 DR431 100/4/1 CPU\_VTT  
 ITE\_7 DR429 100/4/1 CPU\_VTT  
 ITE\_8 DR427 100/4/1 CPU\_VTT

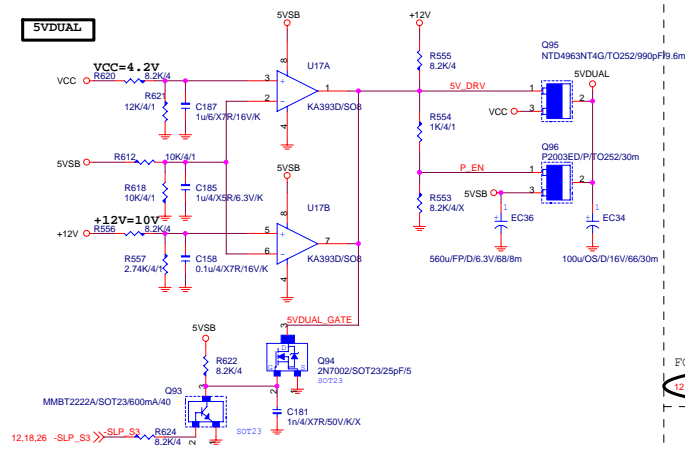


FOR IT8275 DX HI, REV:EX PU LO

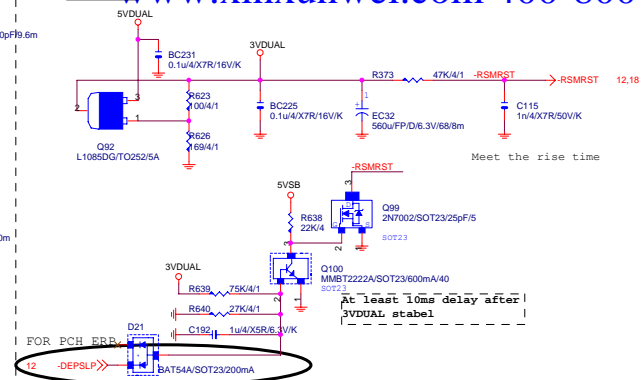


Gigabyte Technology			
File CPU CORE VR-2			
Size	Document Number	Rev	
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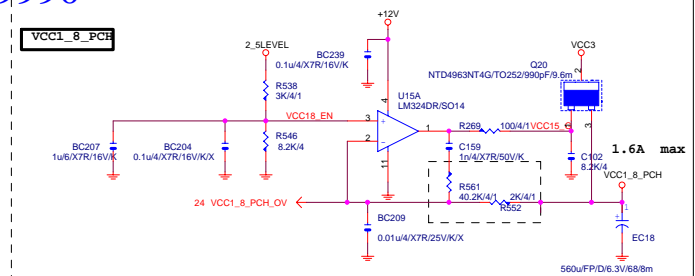
## 5VDUAL



## 3VDUAL

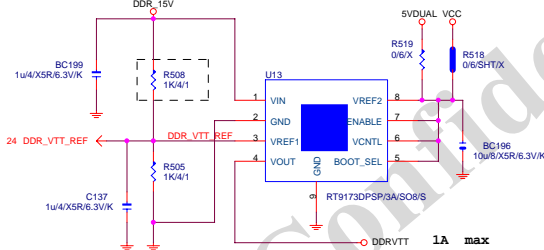


## VCC1\_8\_PCH

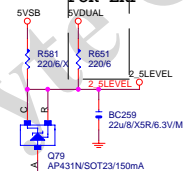


## I/O ErP Control

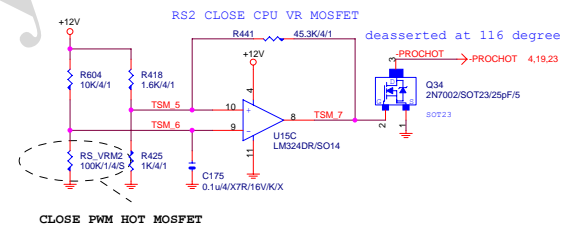
## DDR\_VTT



## FOR ERP



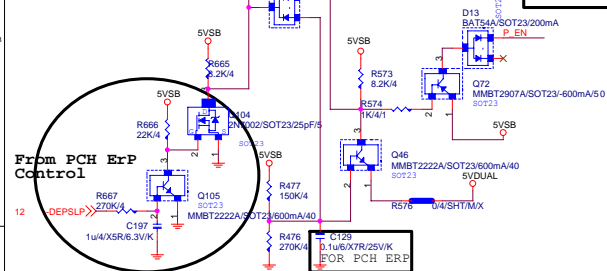
## -PROHOT



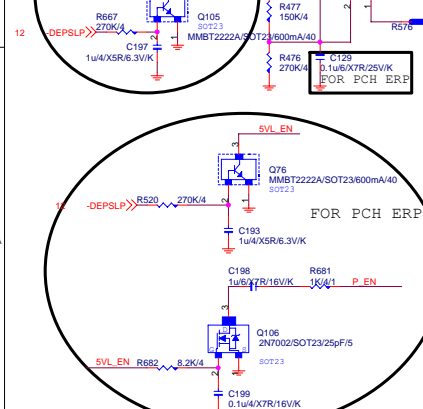
## From I/O ErP Control

## PCH ErP Control

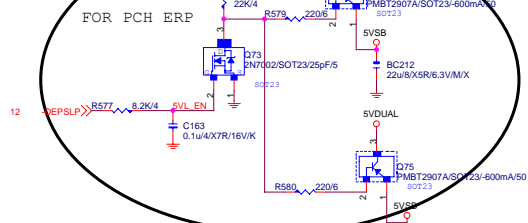
## 5VDUAL SHORT PROTECT



## From PCH ErP Control

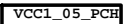


## FOR PCH ERP

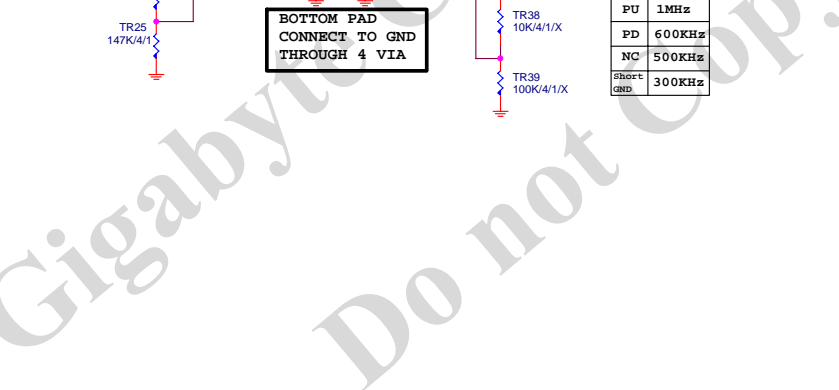
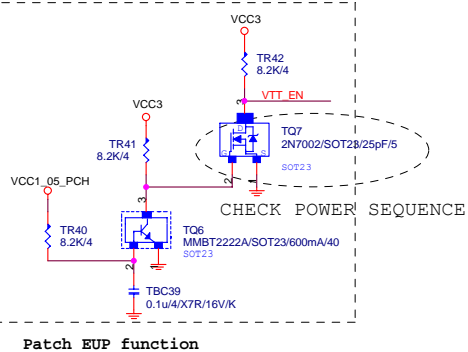
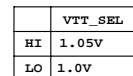


Gigabyte Technology

DISCRETE POWER		
Size C	Document Number	Rev
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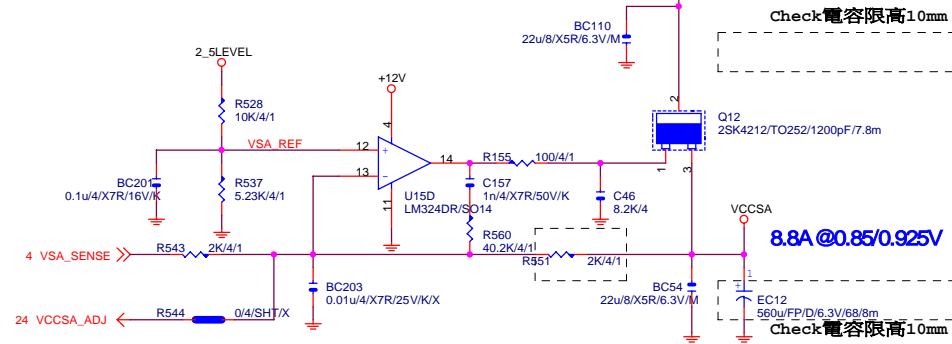




	F_SEL
PU	1MHz
PD	600KHz
NC	500KHz
Short GND	300KHz

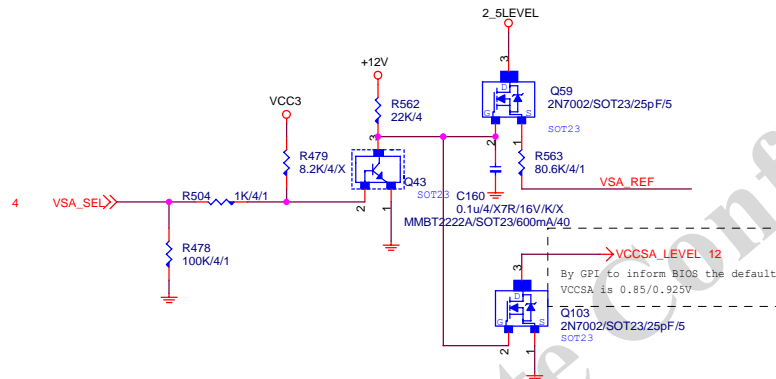
17A MAX

VCC\_SA

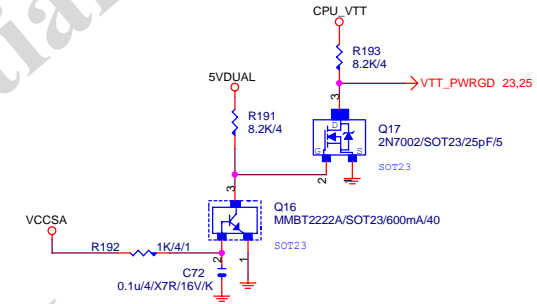
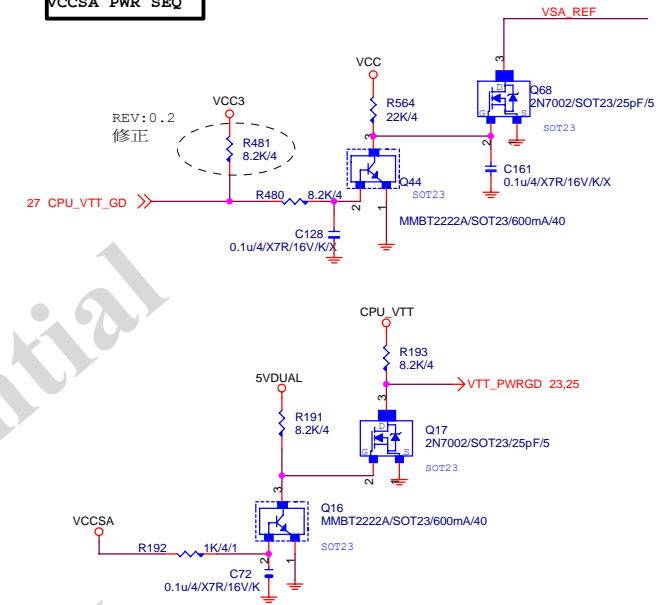


PDG 1.01

	VSA_SEL
HI	0.85V
LO	0.925V



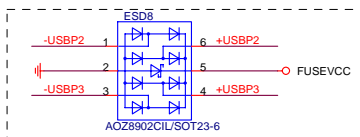
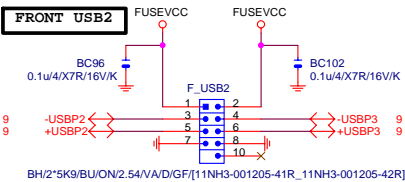
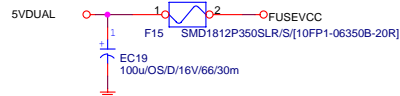
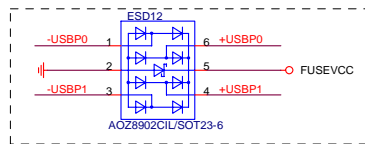
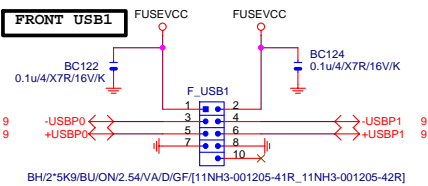
VCCSA PWR SEQ



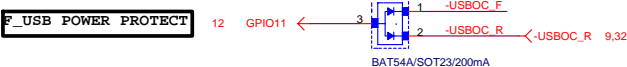
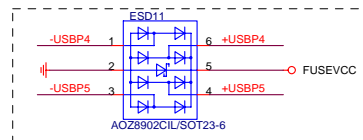
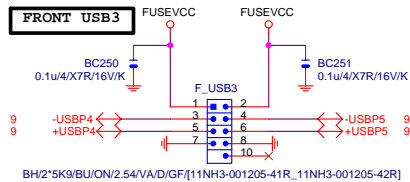
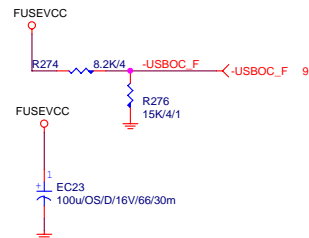
Gigabyte Technology

Title		
CPU VTT PWM_ISL6312		
Size	Document Number	Rev
Custom	GA-P67A-D3-B3	2.0
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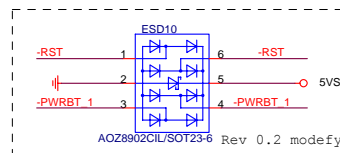
CASE OPEN



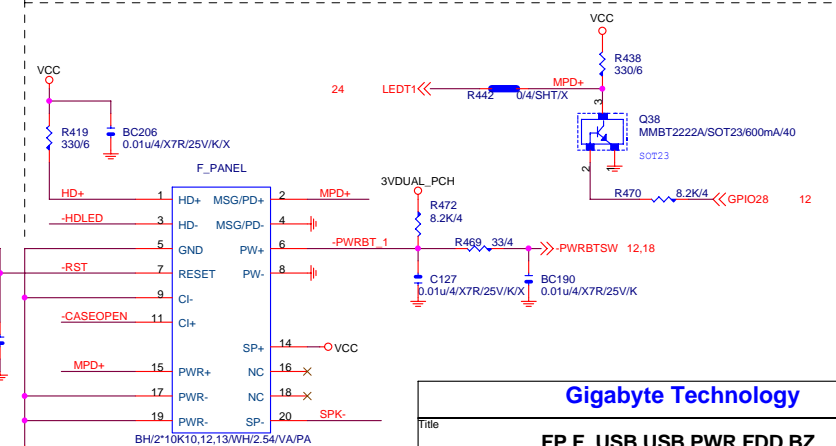
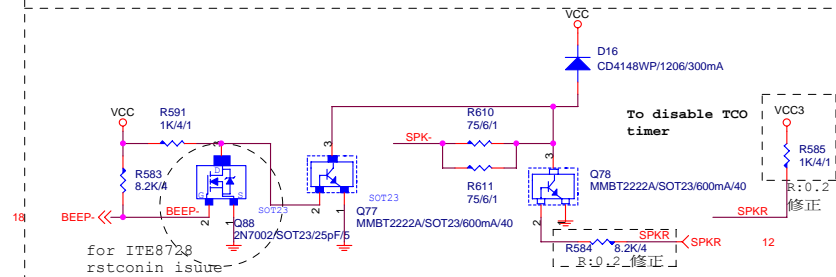
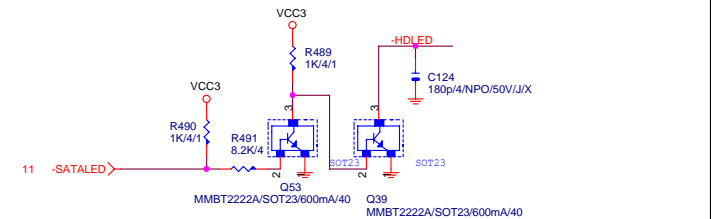
Close to connector



INTEL FRONT PANEL



SATA LED

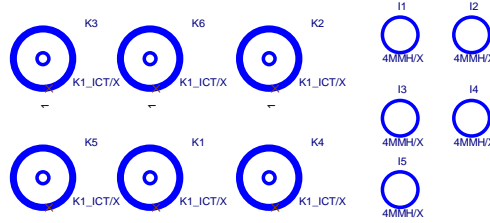
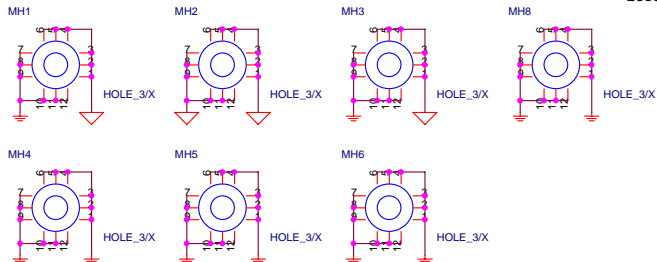
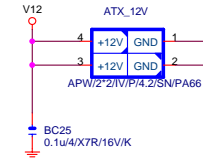
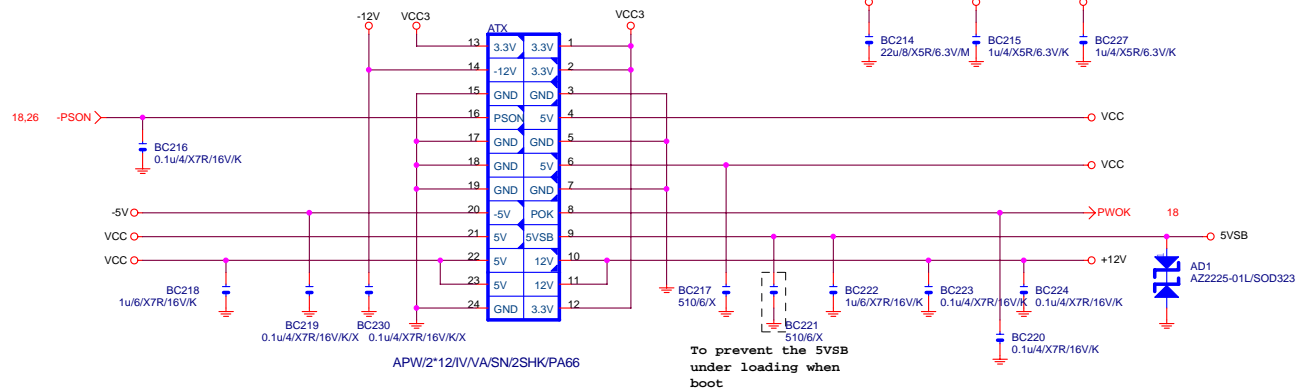


Gigabyte Technology

Title			FF.P_USB,USB PWR,FDD,BZ
Size	Document Number	GA-P67A-D3-B3	
Custom		Rev	2.0
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# ATX POWER CONNECTOR

www.xinxunwei.com 400-800-9990



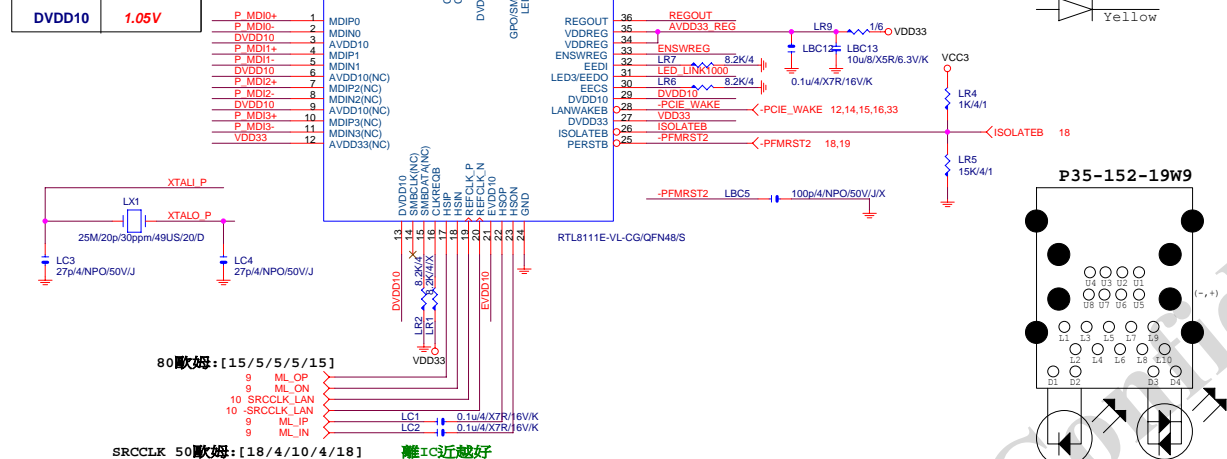
Gigabyte Technology			
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ATX POWER CONNECTOR			
Size	Document Number	Rev	
Custom	GA-P67A-D3-B3	2.0	
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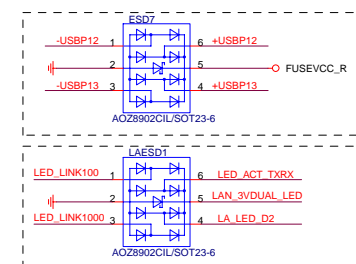
## PCIE-1G LAN

### Power domain chart

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



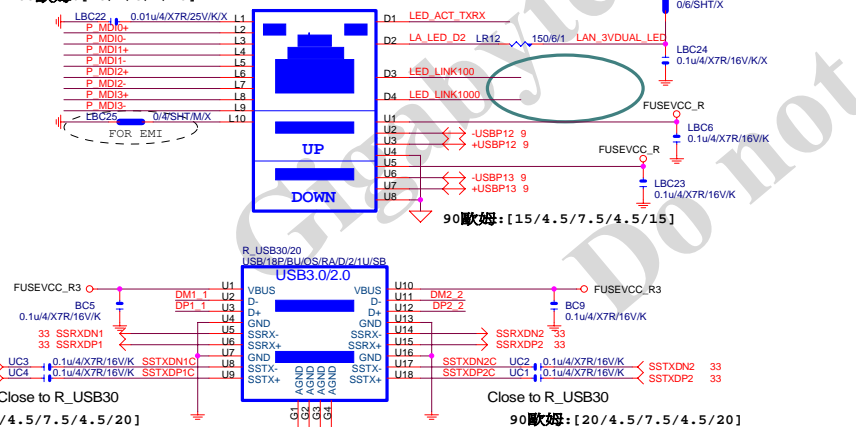
## USB30\_LAN CONNECTOR



3倍力:RED COLOR USB2.0

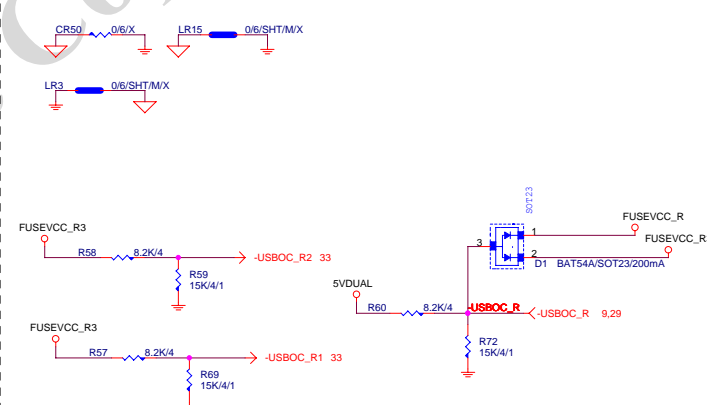
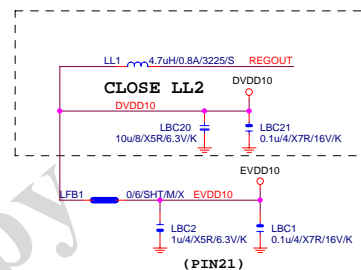
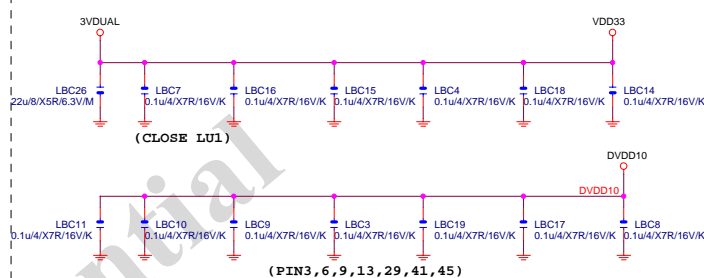
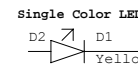
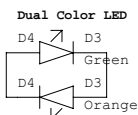
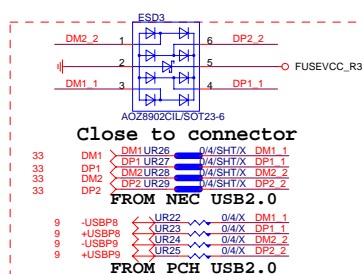
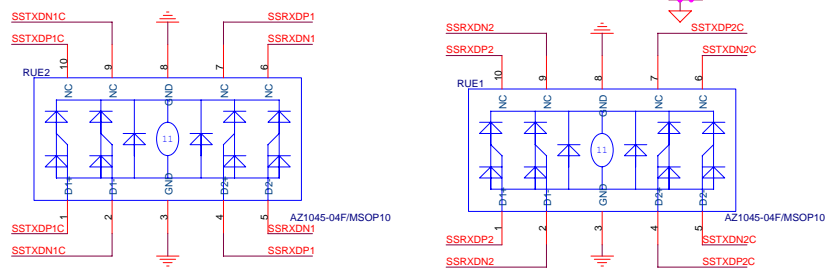
USB\_LAN  
USB+LAN/1G/GO,Y/OS/RA/D/1

100歐姐:[20/4/8/4/20]



90 歐姐: [20/4.5/7.5/4.5/20]

90 歐姆: [20/4.5/7.5/4.5/20]



Close to connector

