

Model Name: GA-B75M-D3V

Revision 1.0

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 X2 SLOT
16	PCI SLOT1
17	ITE 8728 LPC IO
18	COM,KB_MS_USB,USB30_20
19	HWM,FAN CTRL,OV,-PROCHOT
20	DUAL BIOS
21	FP,FUSB,SPK,SATALED
22	Realtek ALC887-VD2
23	REAR AUDIO JACK
24	ARTHEROS AR8161/AR8151
25	DISCRETE POWER
26	ATX, M3 POWER
27	RT8120_CPU_VTT

SHEET

TITLE

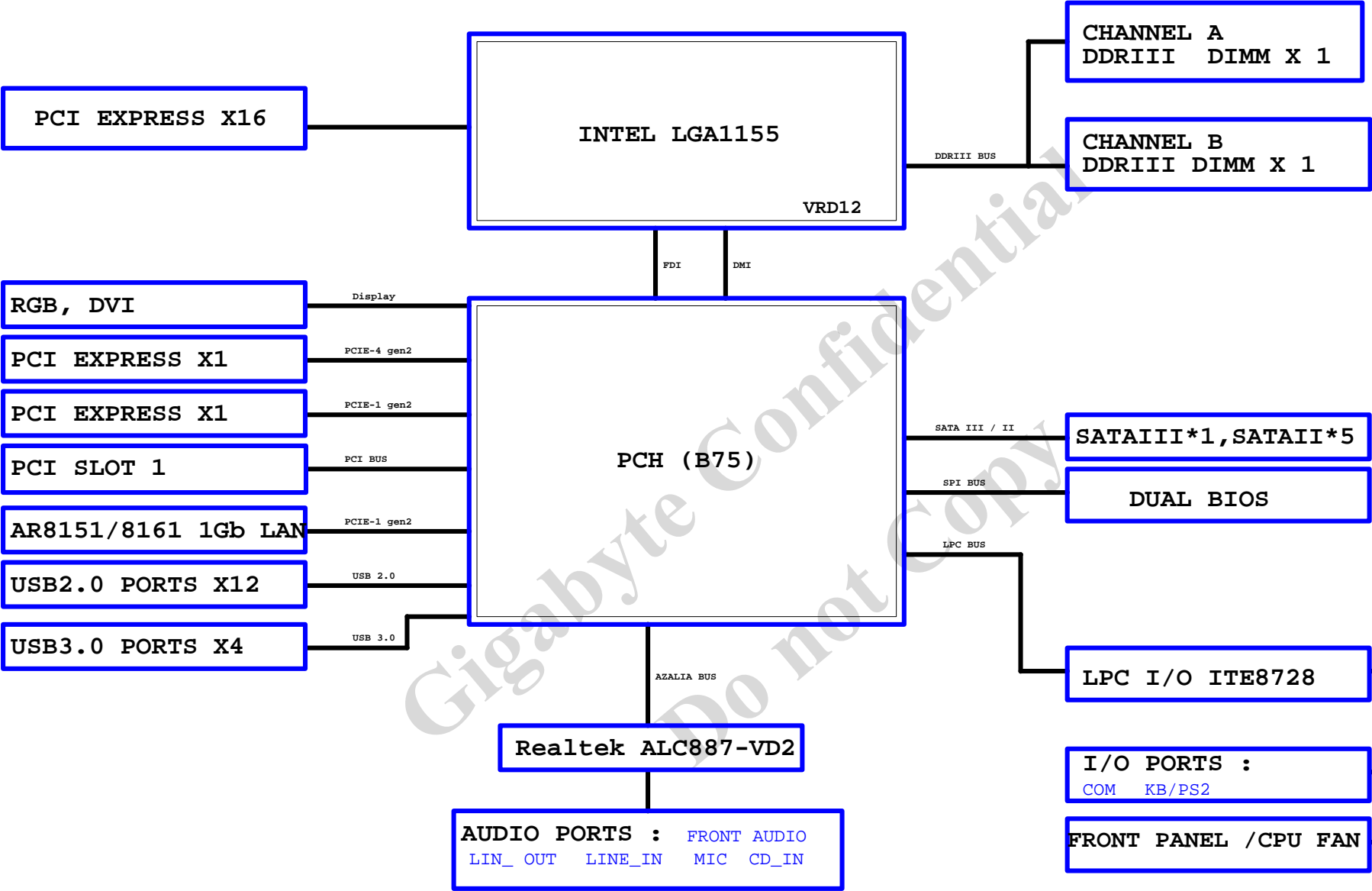
28	VCORE ISL95836_1
29	VCORE ISL95836_2
30	RT8120_DDR POWER
31	LPT
32	DVI

**Gigabyte Technology**

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BLOCK DIAGRAM



LGA1155E



LGA1155E

LGA1155E



LGA1155D



(c)



(c)



## CPU SVID



SM	REF
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Title			
CPU LGA1155-A			
Size	Document Number	Rev	
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## LGA1155A

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		AW33	SA_CS#			
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				SA_DQ[39]	AU37	MDA39
				SA_DQS[5]	AP38	DQSA5
				SA_DQS[5]	AP39	-DQSA5
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				SA_DQ[41]	AR37	MDA41
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DDR\_0

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DDR\_0

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LGA1155(10SC1-F01155-21R\_10SC1-F01155-22R)

## LGA1155B

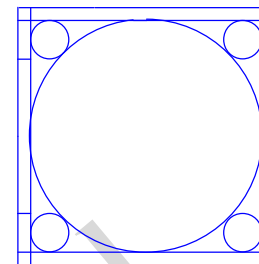
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DDR 1

DDR\_1

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LGA1155(10SC1-F01155-21R\_10SC1-F01155-22R)

CR  
CPU RETENTION/X

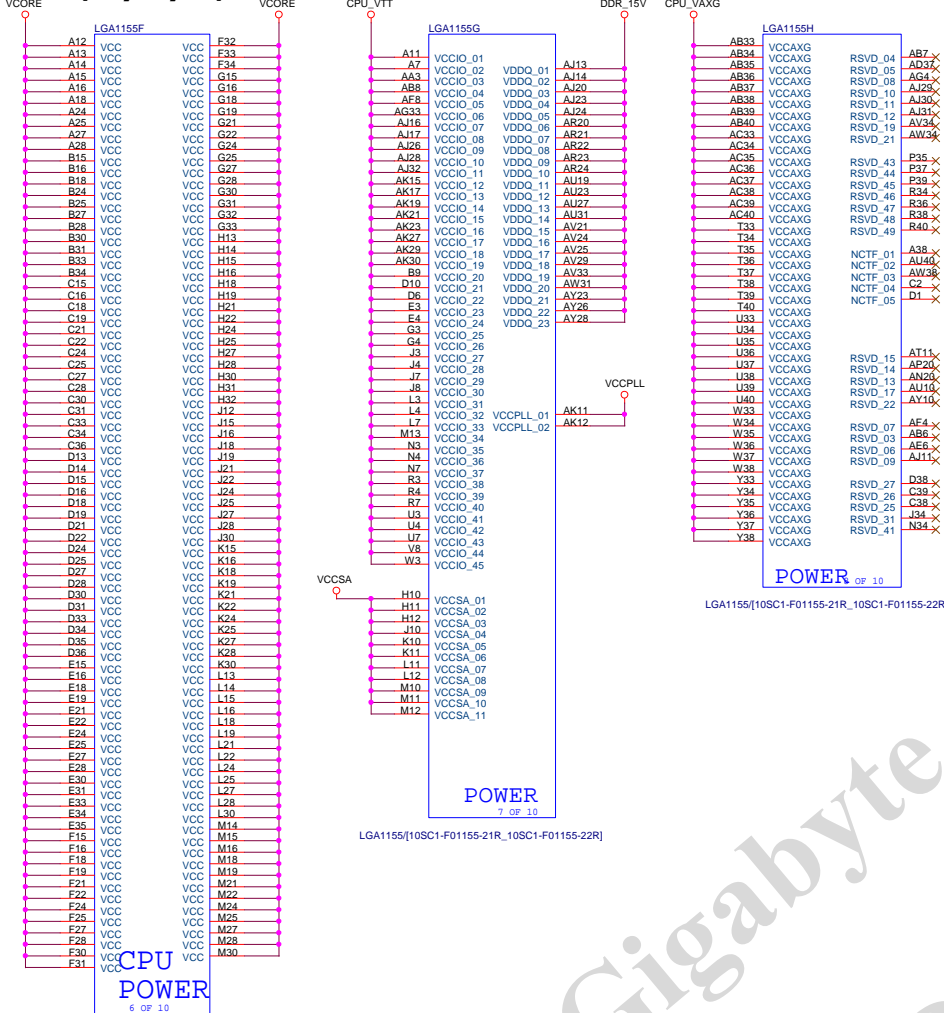
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Gigabyte Technology

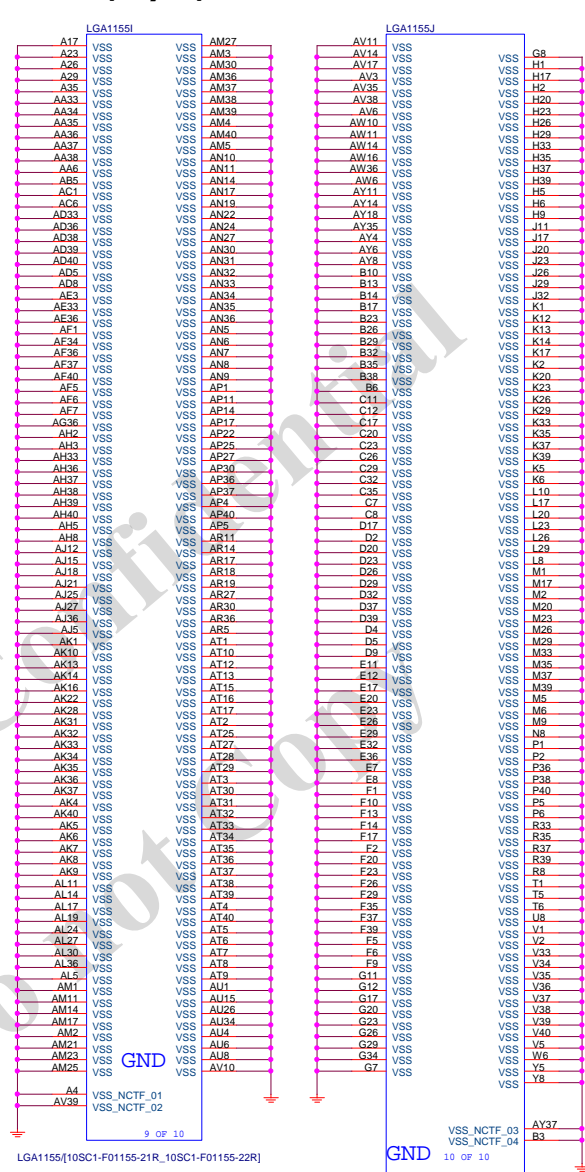
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Title		
CPU LGA1156-B		
Size	Document Number	Rev
Custom	GA-B75M-D3V	1.0
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# LGA1155 (F,G,H)



LGA1155[10SC1-F01155-21R\_10SC1-F01155-22R]

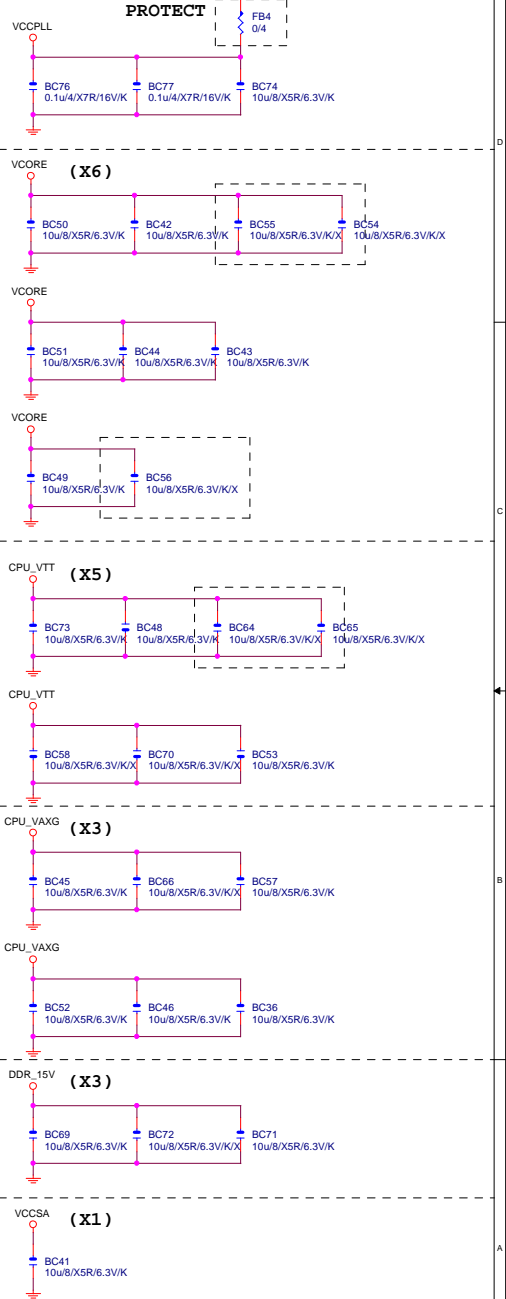
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LGA1155[10SC1-F01155-21R\_10SC1-F01155-22R]

LGA1155[10SC1-F01155-21R\_10SC1-F01155-22R]

# CAP

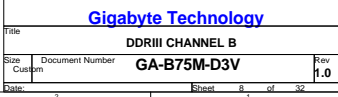
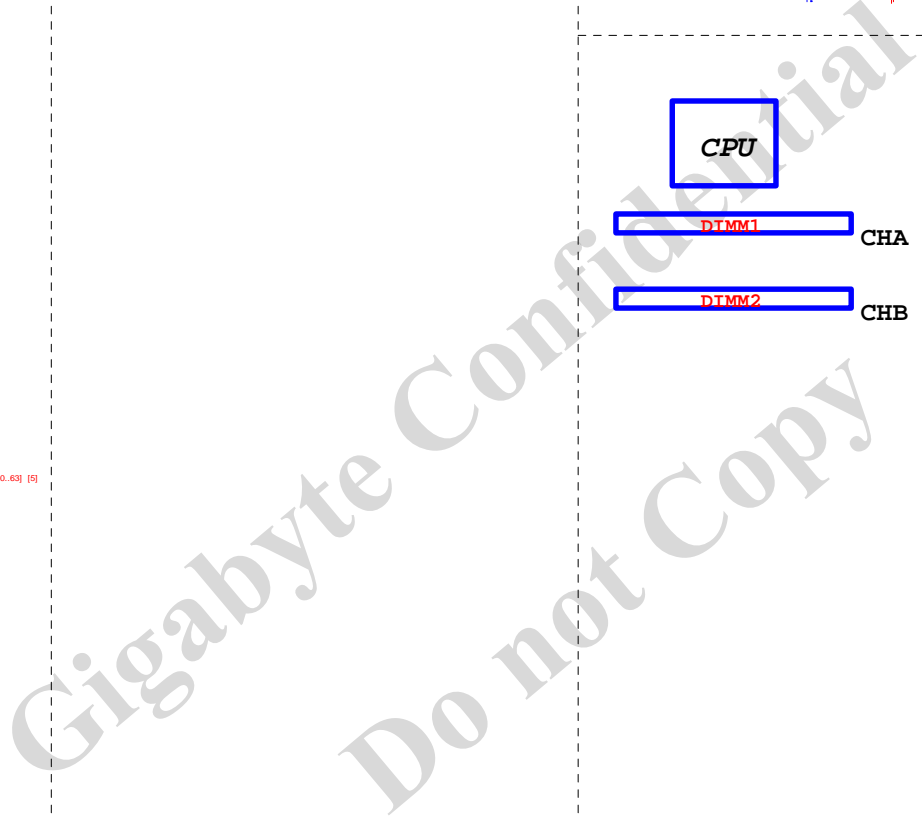


Gigabyte Technology			
Title	CPU LGA1156-C		
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Rev 1.0









**(B)**



**PCH (E)**

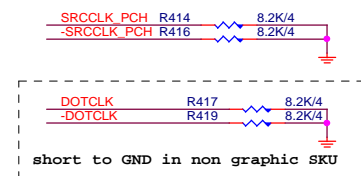
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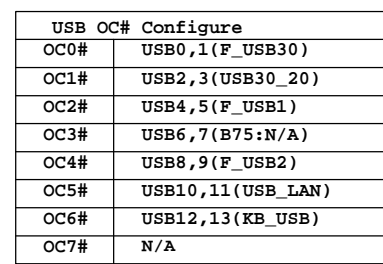
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32.4/4/1 for ONFI enable

(G)



## USB TABLE



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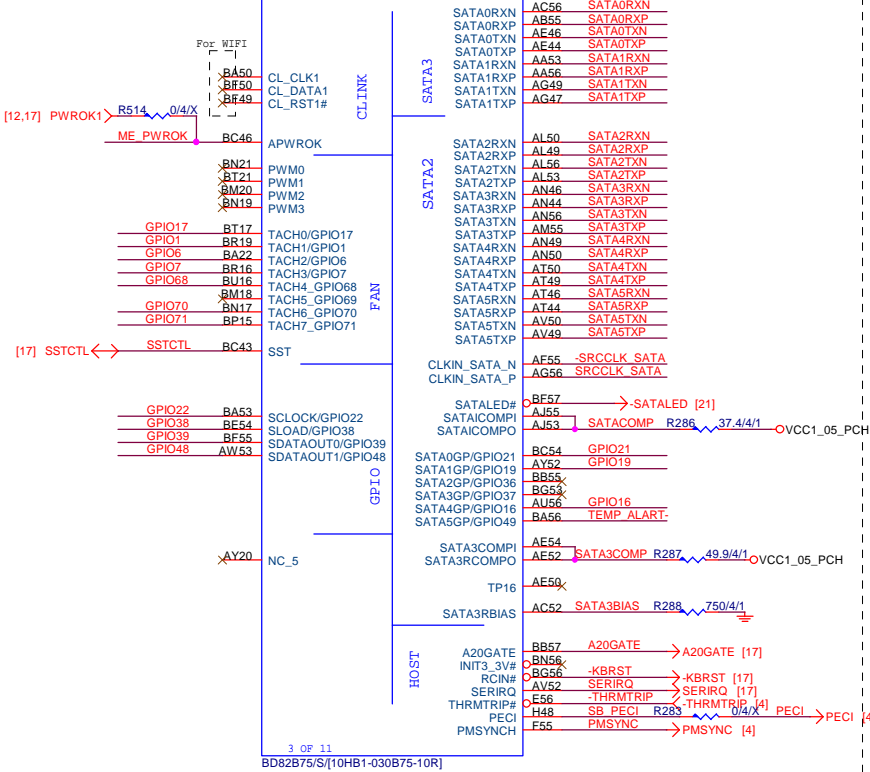
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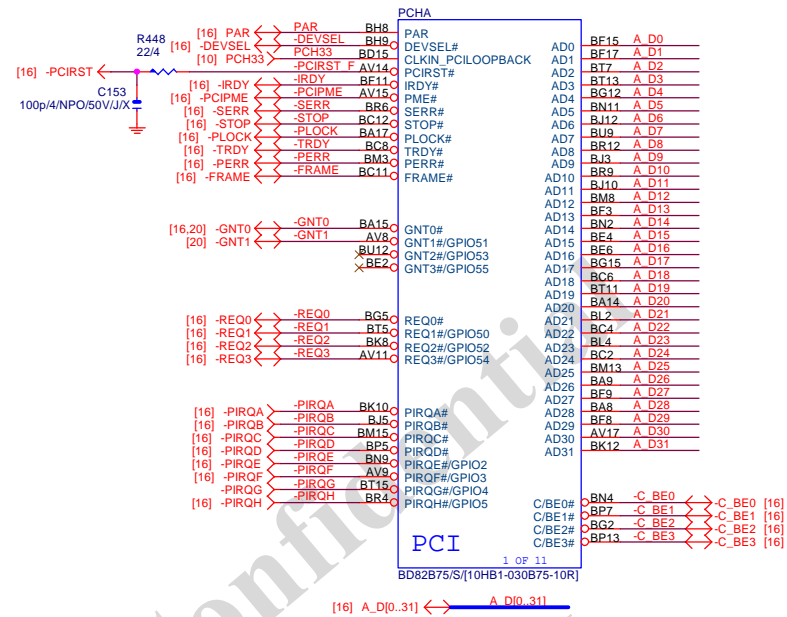
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B75 SATA3.0 ONLY PORT0  
B75 Not Support RAID

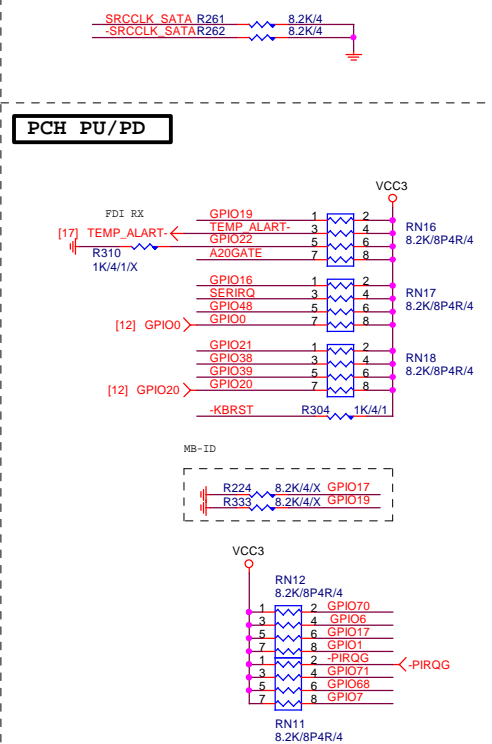
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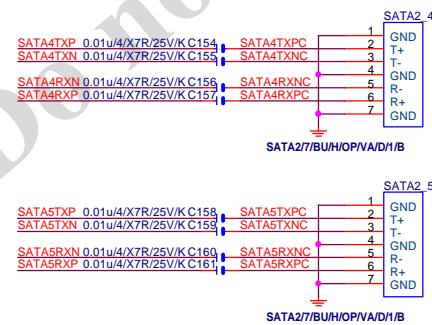
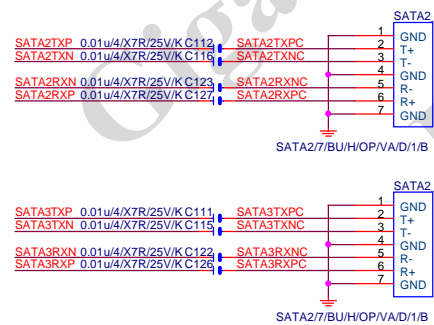
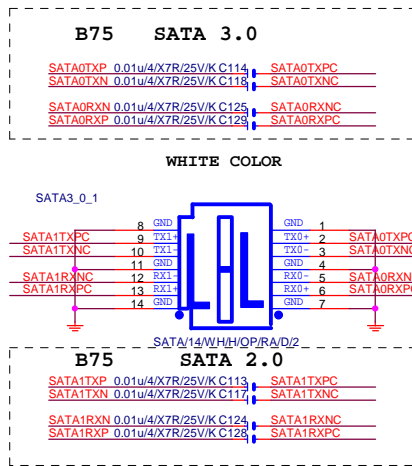
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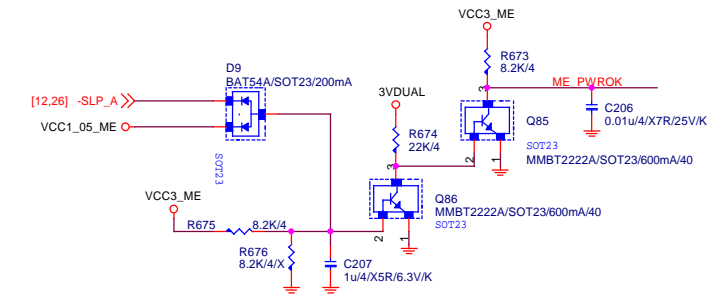
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SATA CONNECTOR	H1X7-SATA2-HS-MASK
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ME PWROK



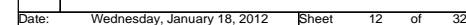
## Gigabyte Technology

### PCH HOST , SATA, PCI

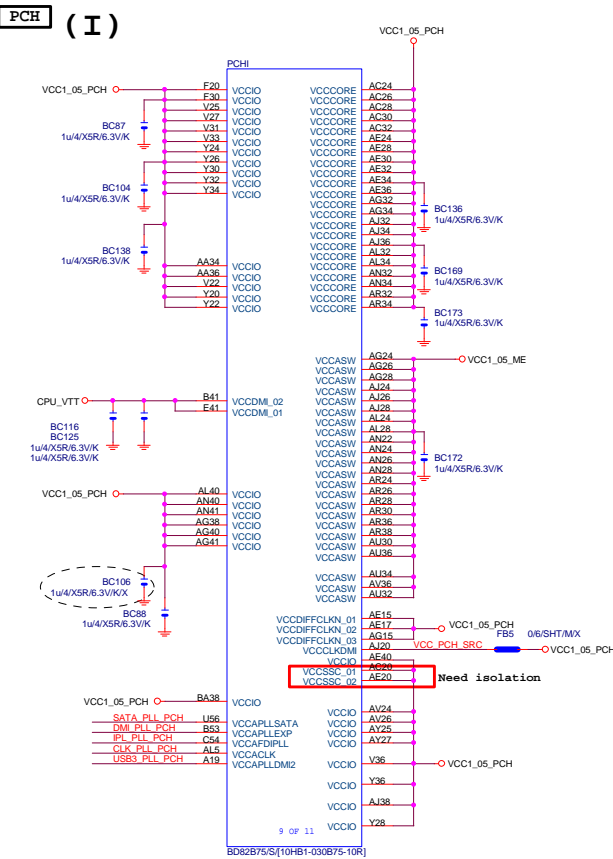
**GA-B75M-D3V**

Title			
PCH HOST , SATA, PCI			
Size	Document Number	Rev	
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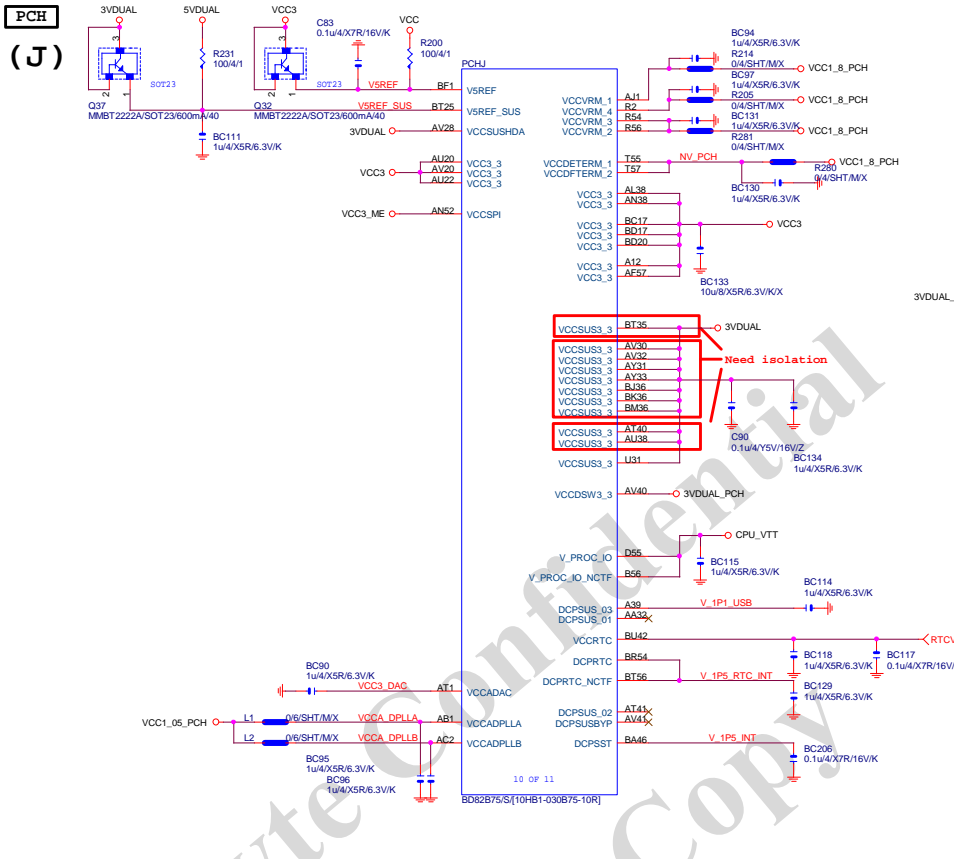
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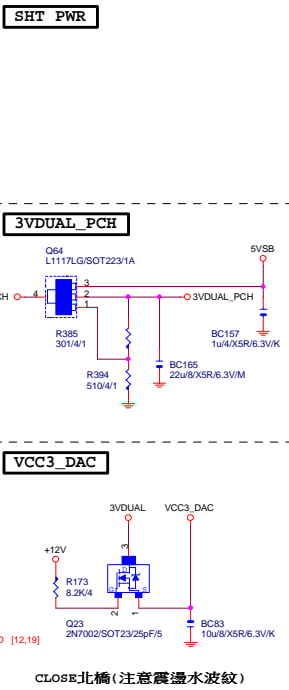
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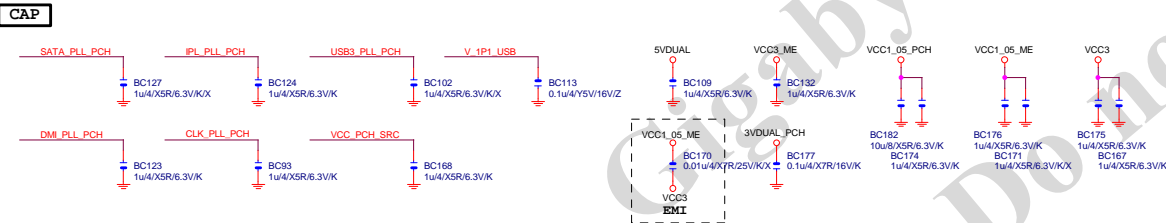
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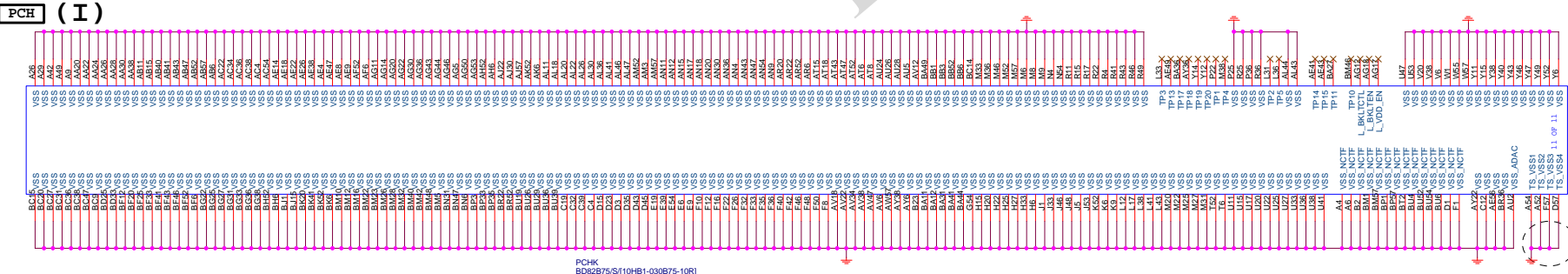
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## CAP



**PCH (I)**

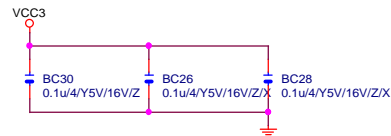




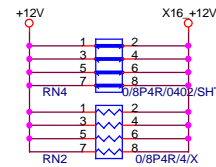
## PCIEX16 CAP

PCIEX16 SLOT

## PCIESLOT-164DN-P



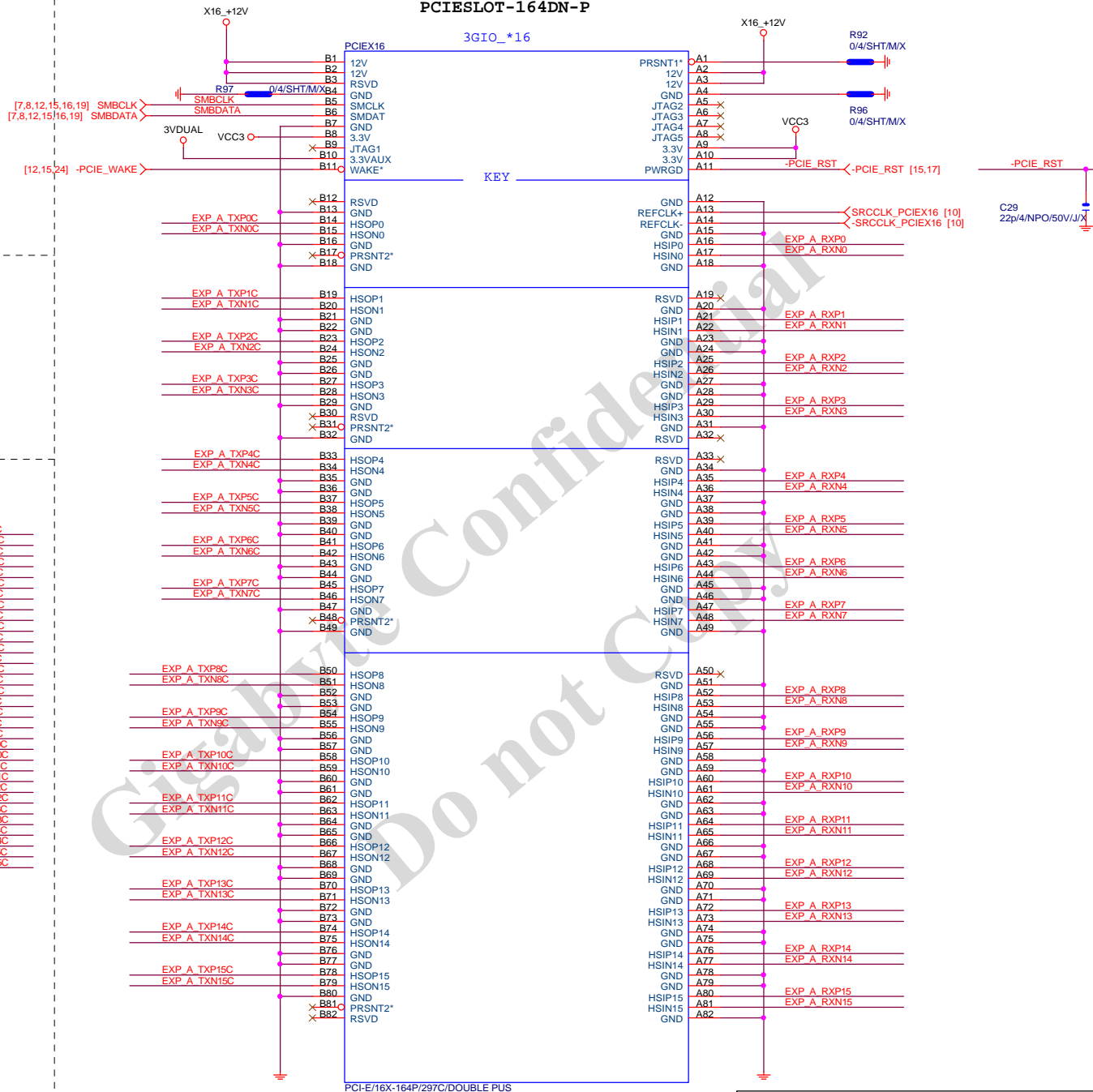
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PCIEX16	AC	CAP
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EXP A TXP1	C35	0.22u4/X5R/6.3V/K	EXP A TXP1C
EXP A TXN1	C37	0.22u4/X5R/6.3V/K	EXP A TXN1C
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EXP A TXN2	C41	0.22u4/X5R/6.3V/K	EXP 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	C47	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 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
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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

EXP A\_RXP[0..15]      >>> EXP\_A\_RXP[0..15] [4]  
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]

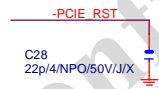
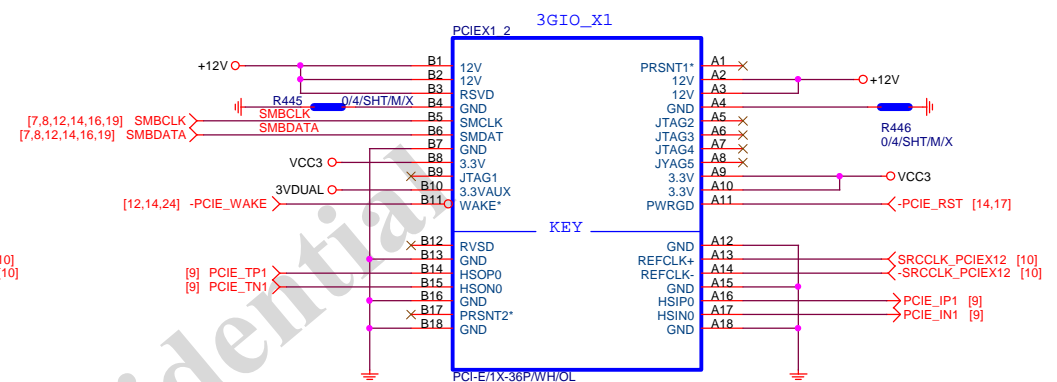
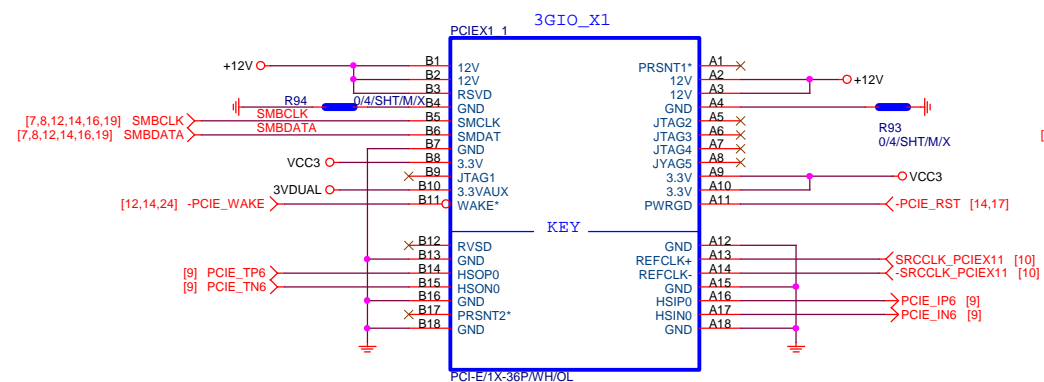


PCI-E/16X-164P/297C/DOUBLE PUS

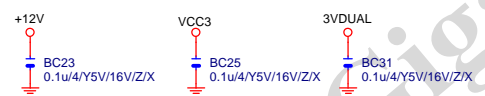
## Gigabyte Technology

Title			
PCI EXPRESS * 16			
Size Custom	Document Number		Rev
	GA-B75M-D3V		1.0
Date:	Wednesday, January 18, 2012	Sheet	14 of 32

PCIEX1 SLOT



PCIEX1 CAP



Gigabyte Technology

PCI EXPRESS X 1 PORT

GA-B75M-D3V

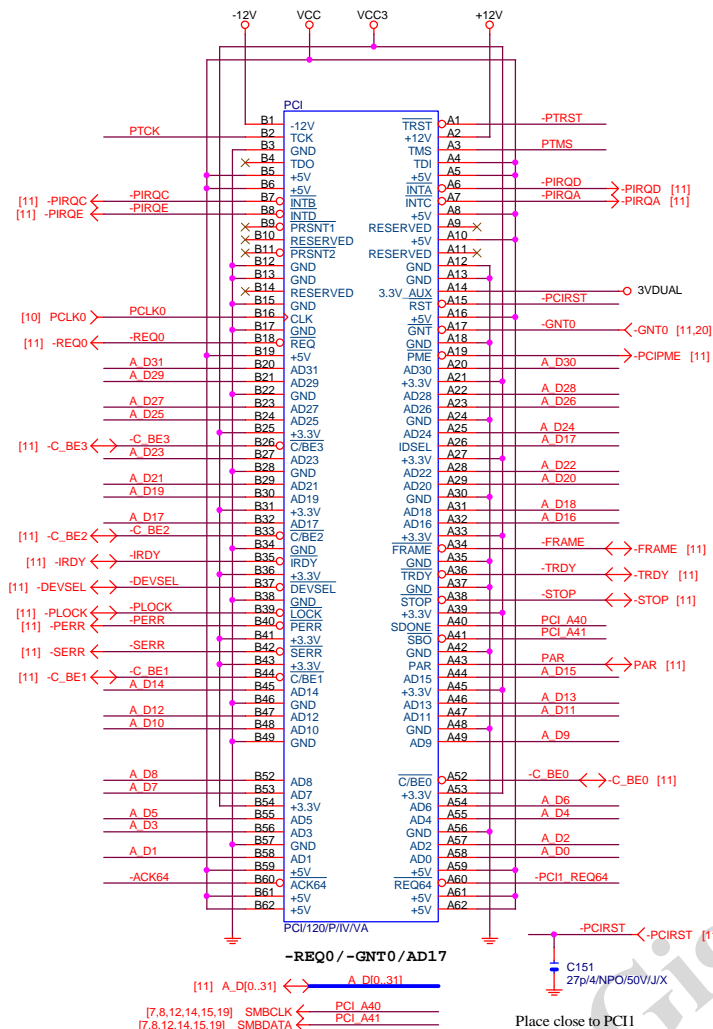
Rev 1.0

Date: Wednesday, January 18, 2012

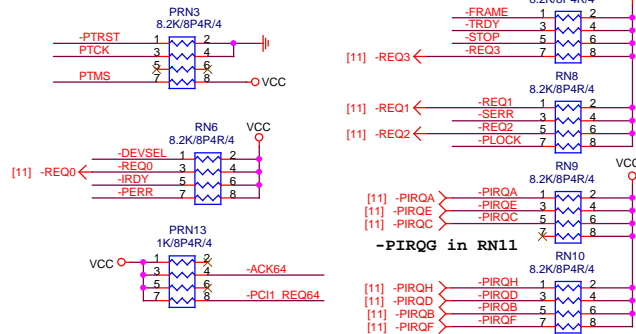
Sheet 15 of 32



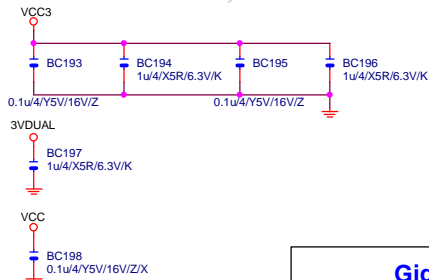
PCI SLOT



PCI	PU
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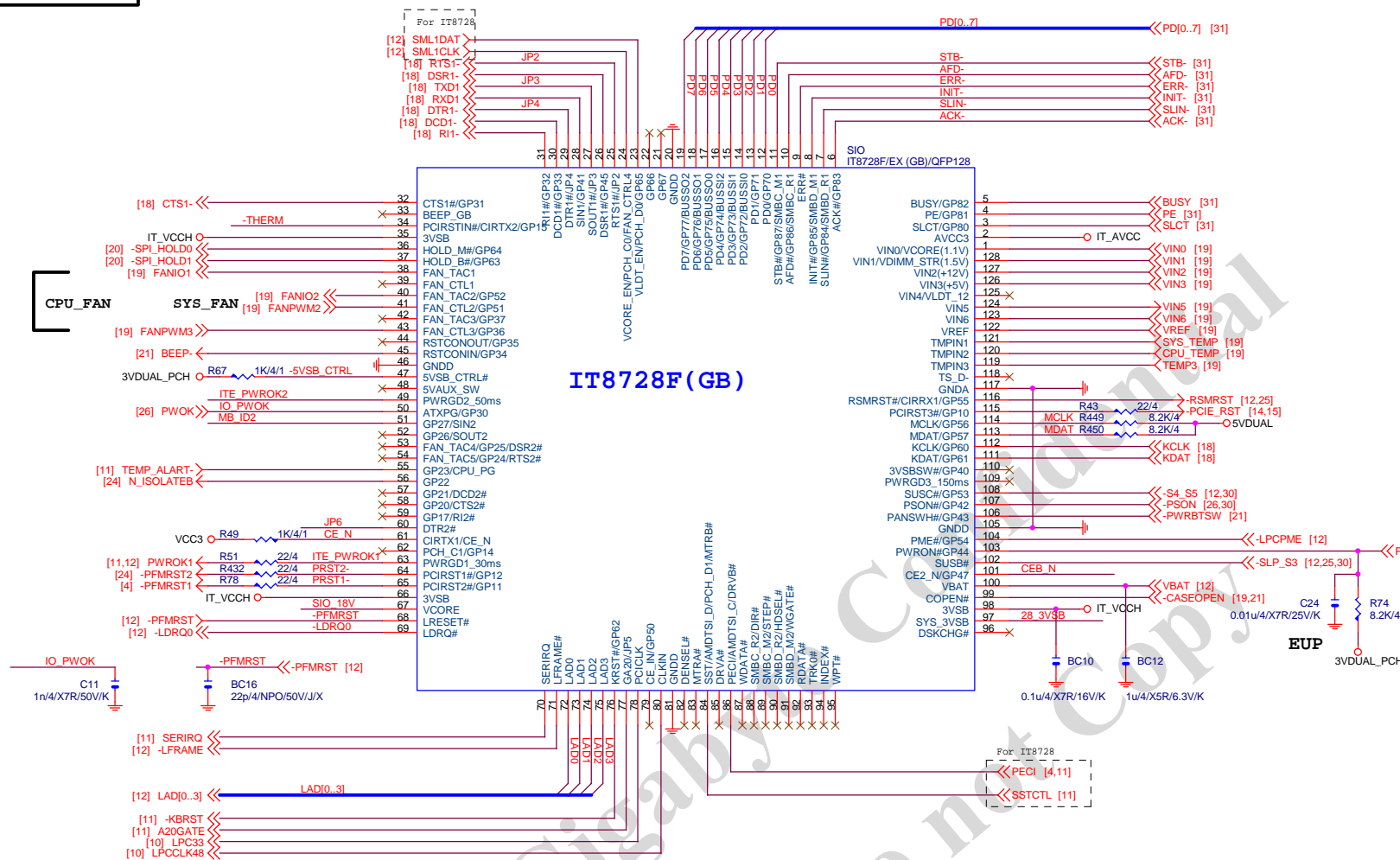
## PCI CAP



## Gigabyte Technology

Title			
PCI SLOT 1&2			
Size Custom	Document Number	GA-B75M-D3V	Rev 1.0
Date:	Wednesday, January 18, 2012	Sheet 16	of 32

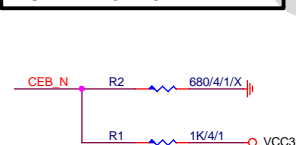
## SIO IT8728F



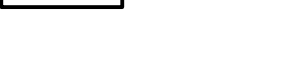
## IT8728F NOTE

	IT8728
PIN121	VCORE_EN/PCH_C0
PIN120	VLDI_EN/PCH_D0
PIN19	ATXPG
PIN31	PCH_C1
PIN53	SST/AMDTSLI_D/MTRB#/PCH_D1
PIN55	PECI/AMDTSLI_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

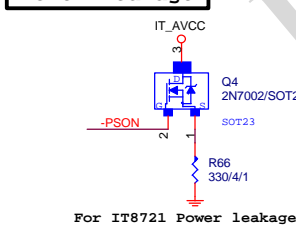
## DUAL BIOS OPT STRAP



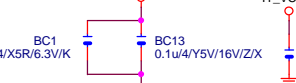
## SIO CAP



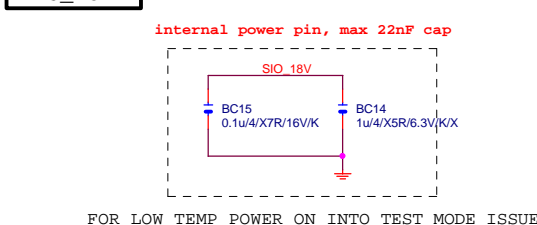
## Power leakage



## SIO\_18V



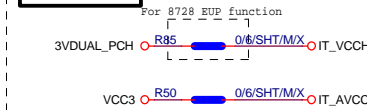
## SIO\_18V



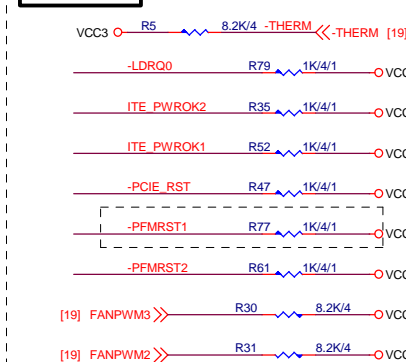
## MB ID



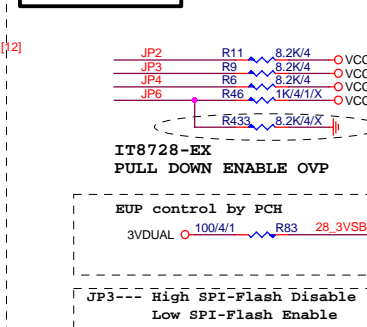
## PWR SHT



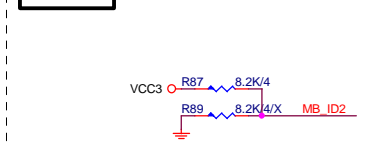
## SIO PU



## SIO STRAP



## MB ID

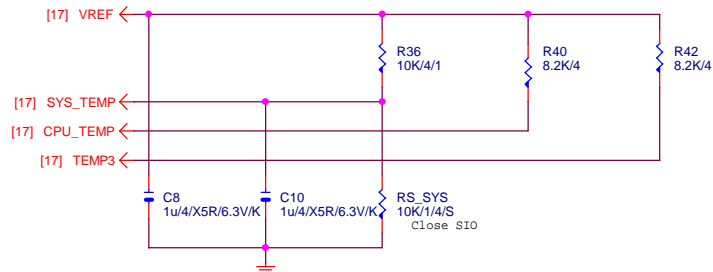


## Gigabyte Technology

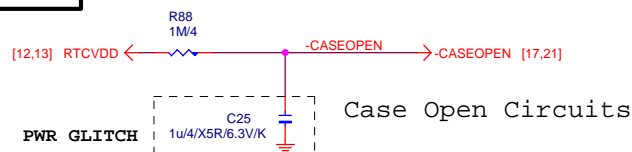
Title		ITE 8728 LPC IO	
Size	Document Number	GA-B75M-D3V	
Custom		Rev 1.0	
Date:	Wednesday, January 18, 2012	Sheet	17 of 32



# TEMP H/W MONITOR

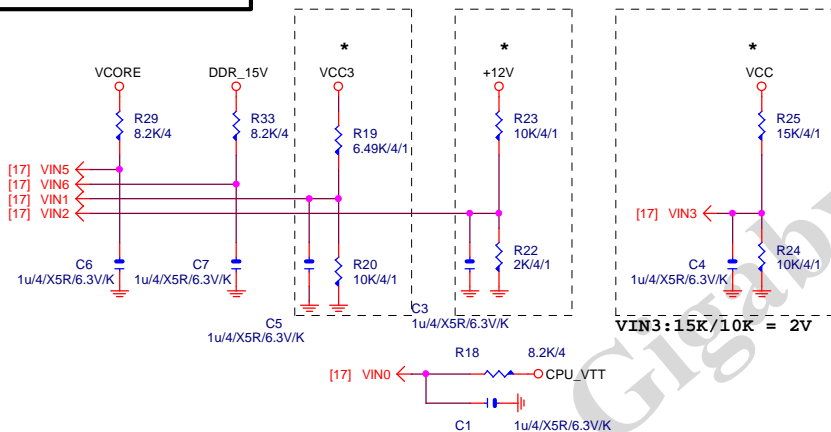


# CASE OPEN

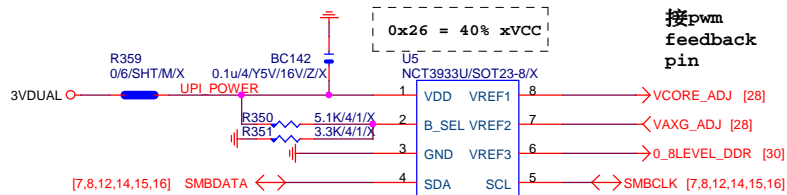


# VOLTAGE-- H/W MONITOR

VIN2:10K/2K = 2V

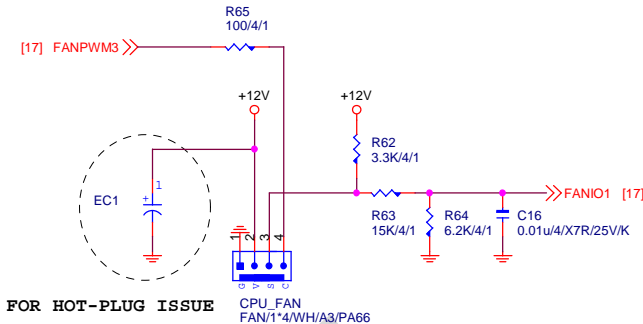


# OV NCT3933

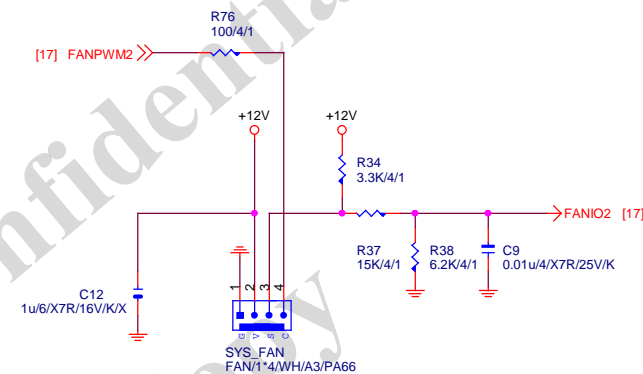


# CPU SMART FAN

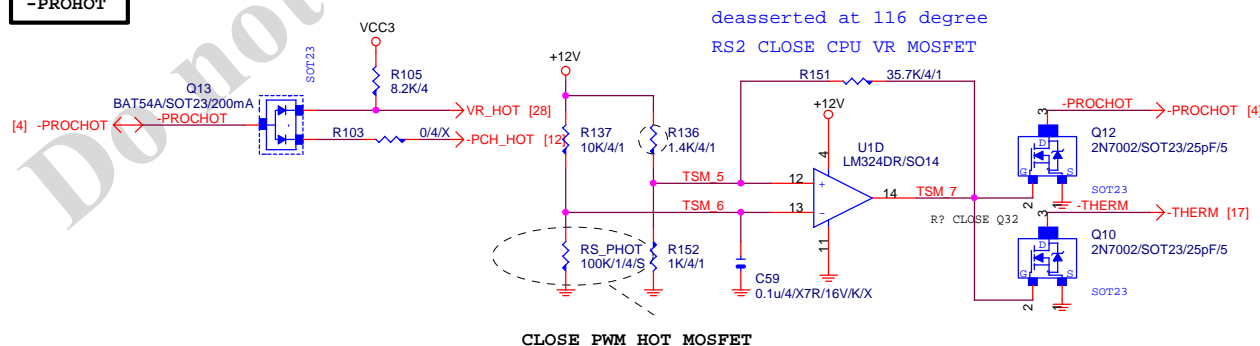
100u/OS/D/16V/66/30m



# SYS SMART FAN



# -PROHOT

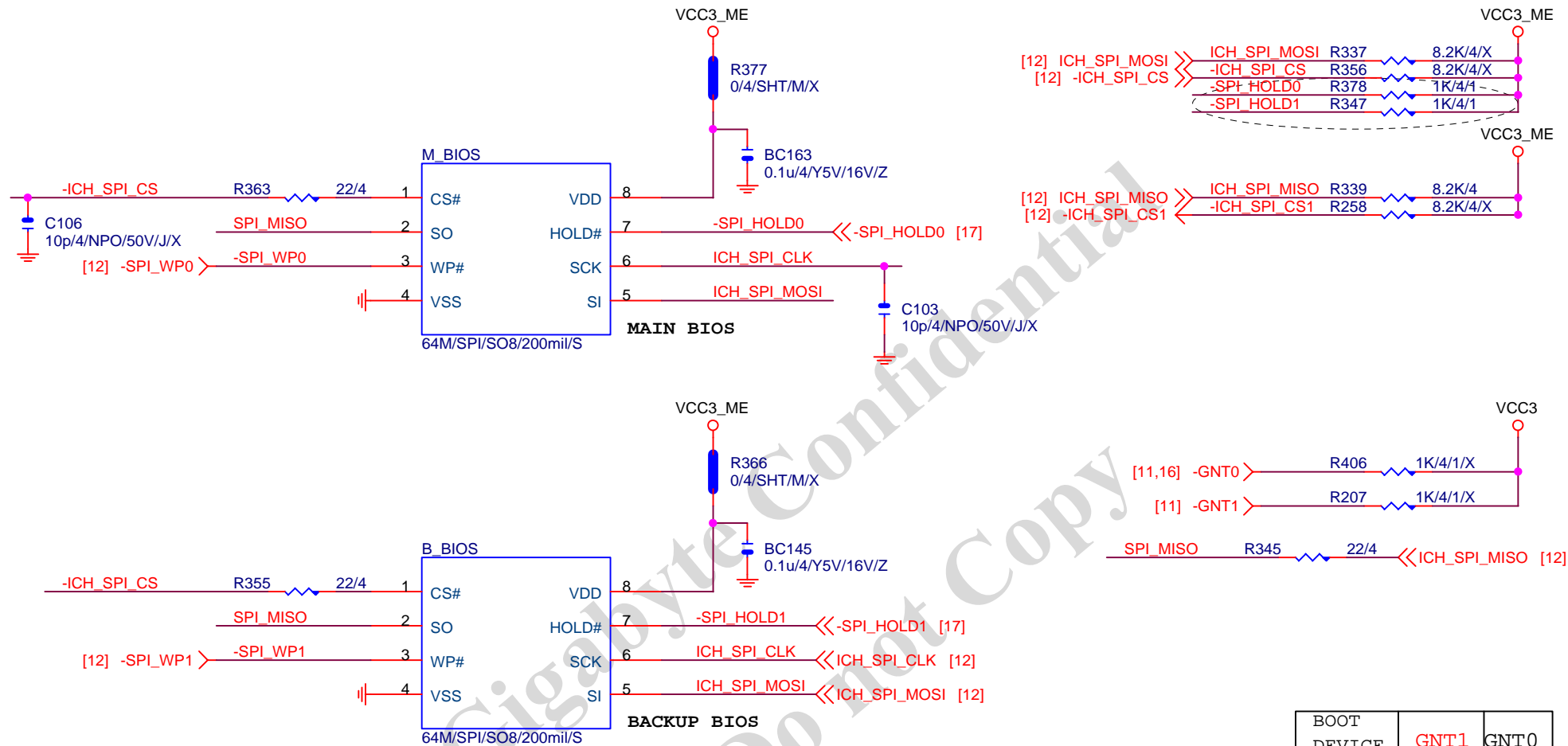


CLOSE PWM HOT MOSFET

Gigabyte Technology

Title		
HWM,FAN CTRL,OV		
Size	Document Number	Rev
Custom	GA-B75M-D3V	1.0
Date:	Wednesday, January 18, 2012	Sheet 19 of 32

# DUAL BIOS



B65使用64M BIOS  
使用H67暫用32M  
H61使用32M BIOS

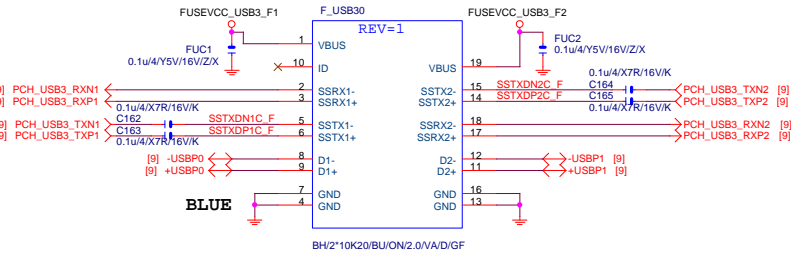
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating  
0 means PD 1K

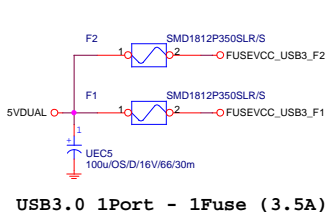
**Gigabyte Technology**

Title		
DUAL BIOS		
Size A	Document Number	Rev
	GA-B75M-D3V	1.0
Date:	Wednesday, January 18, 2012	Sheet 20 of 32

# F\_USB30



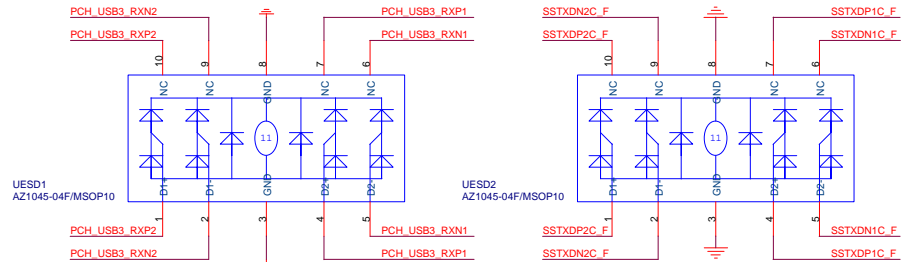
# F\_USB30 PWR



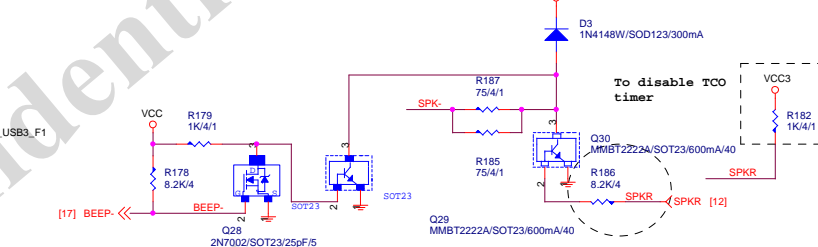
# SATA LED



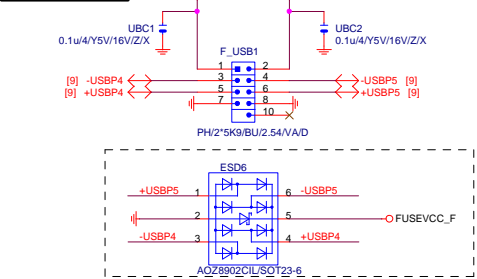
# F\_USB30 ESD PROTECT



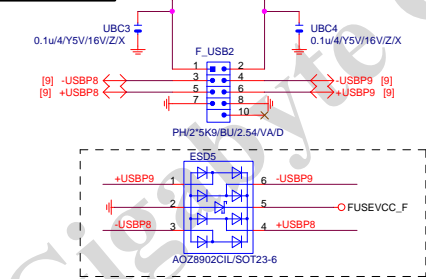
# SPKR



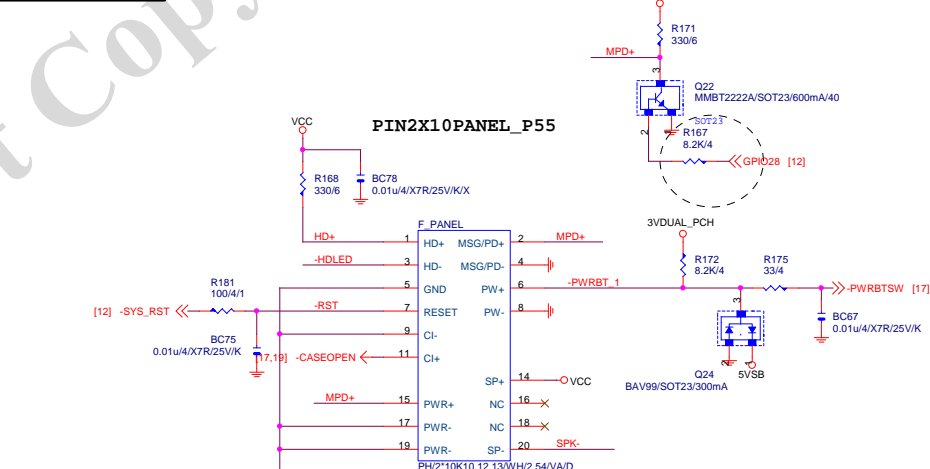
# FRONT USB1



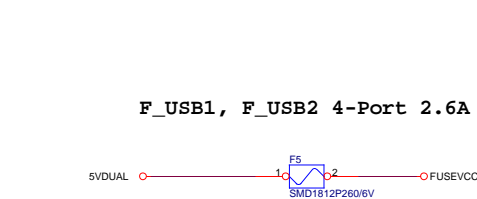
# FRONT USB2



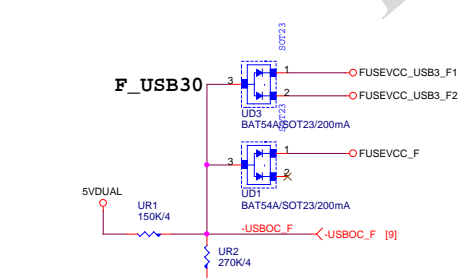
# INTEL FRONT PANEL



# FUSEVCC\_F

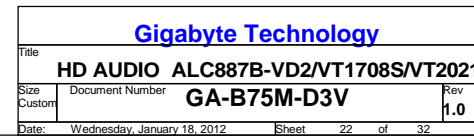


# -USBOC\_F

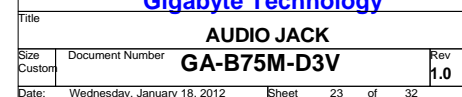
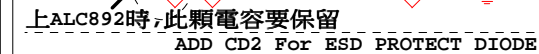


CR34: 20K/4/1% @Realtek cdec  
CR34: 5.1K/4/1 %@VIA cdec  
CBC39 100P @VIA codec

CR34 20K/4/1  
CBC42 100p/4/NPO/50V/J/X

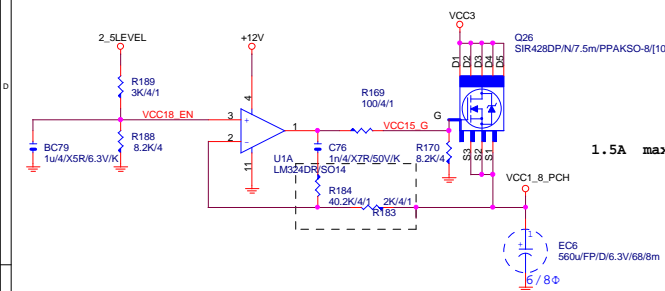




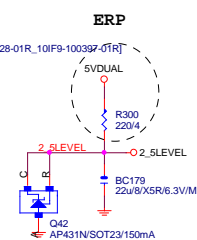




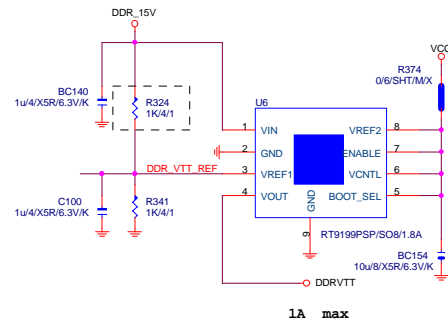
## VCC1\_8\_PCH



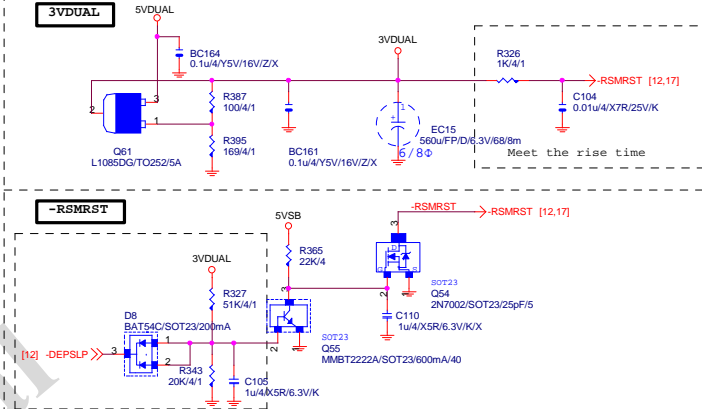
## 2\_5LEVEL



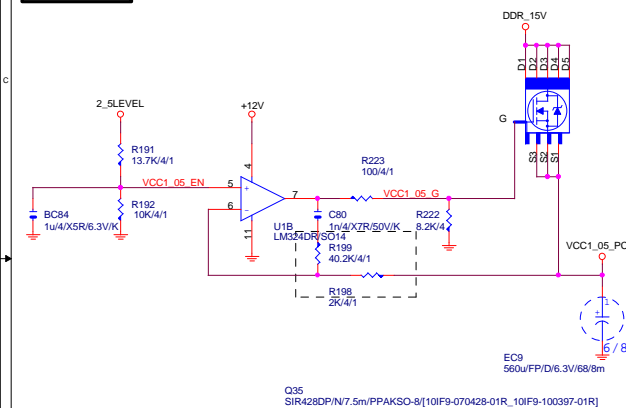
DDRVTT



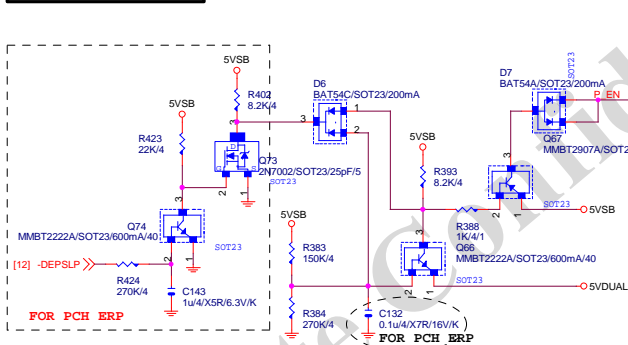
## 3VDUAL



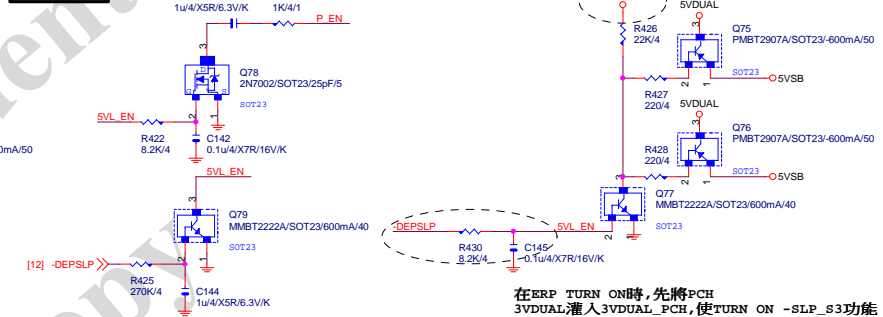
## VCC1\_05\_PCH



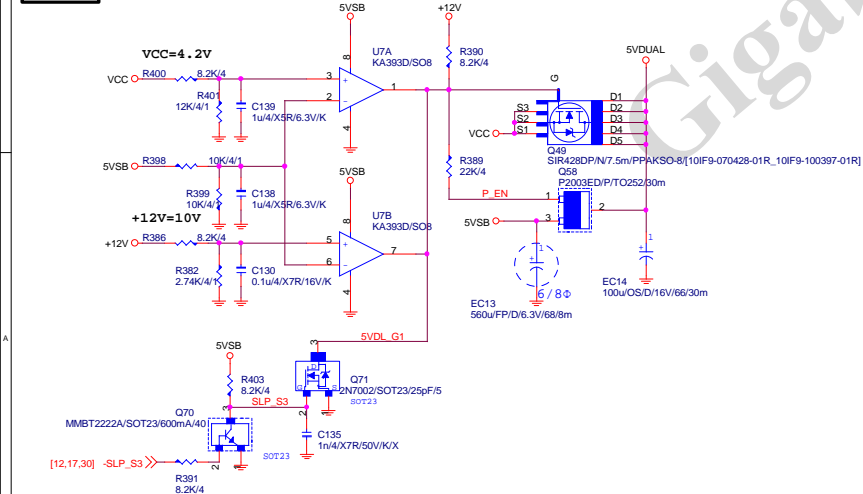
## 5VDUAL SHORT PROTECT



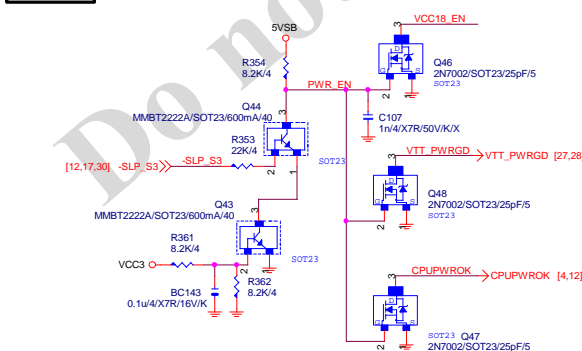
PCH ERP



## 5VDUAL

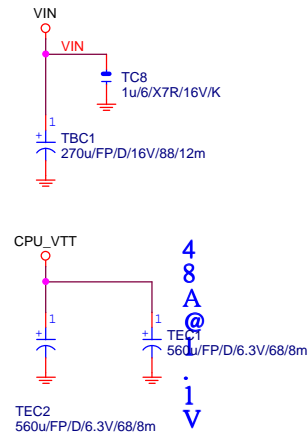
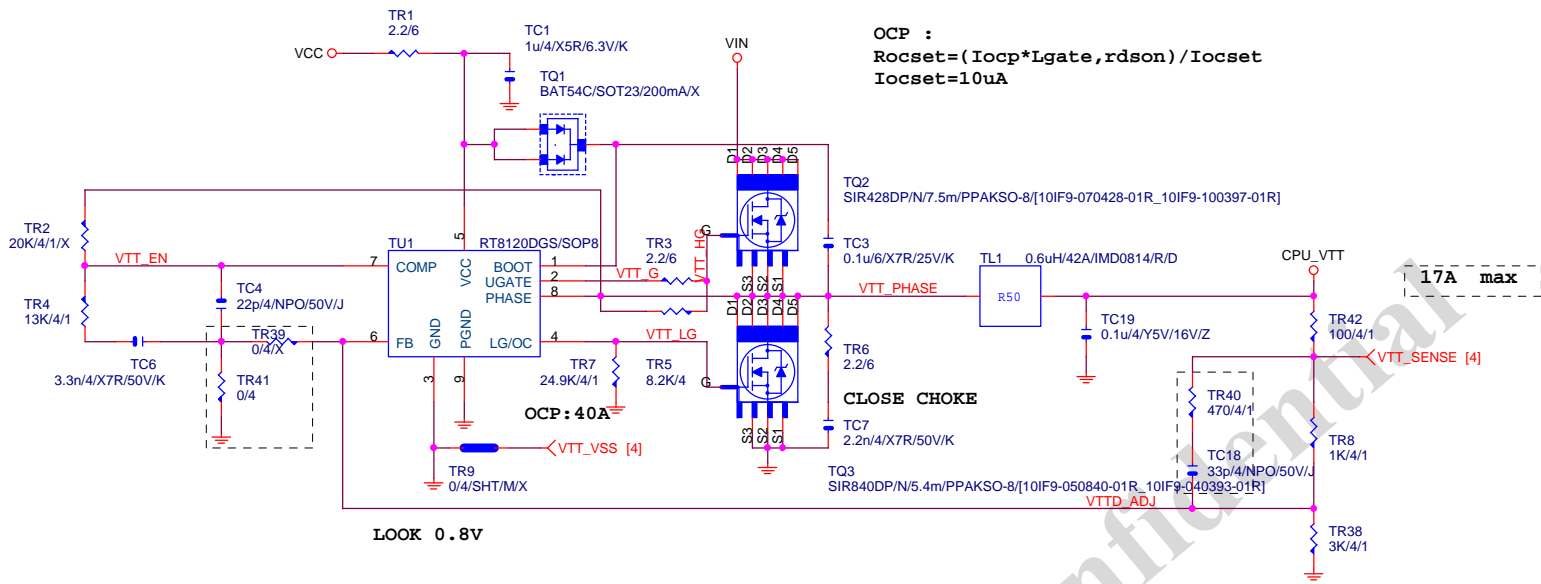


PWR SEQ





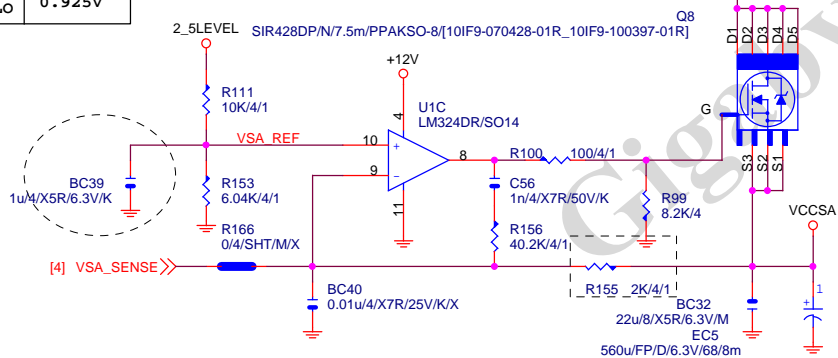
# CPU\_VTT



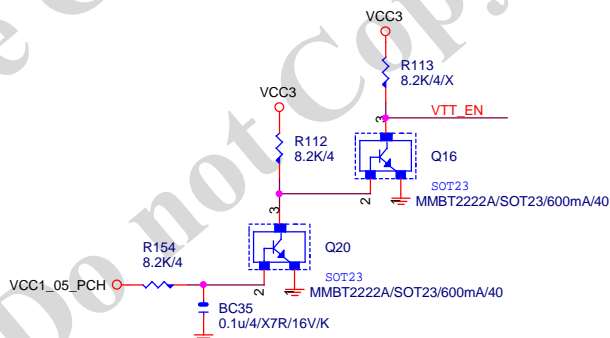
## VCCSA

PDG 0.8

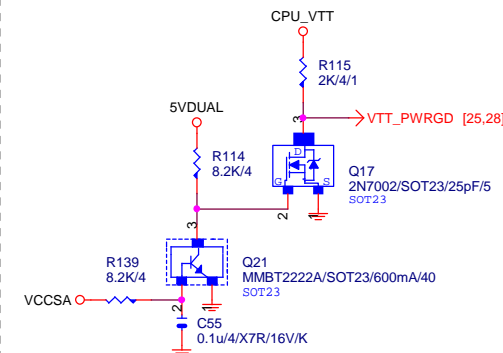
	VSA_SEL
HI	0.85V
LO	0.925V



## CPU\_VTT PWR SEQ

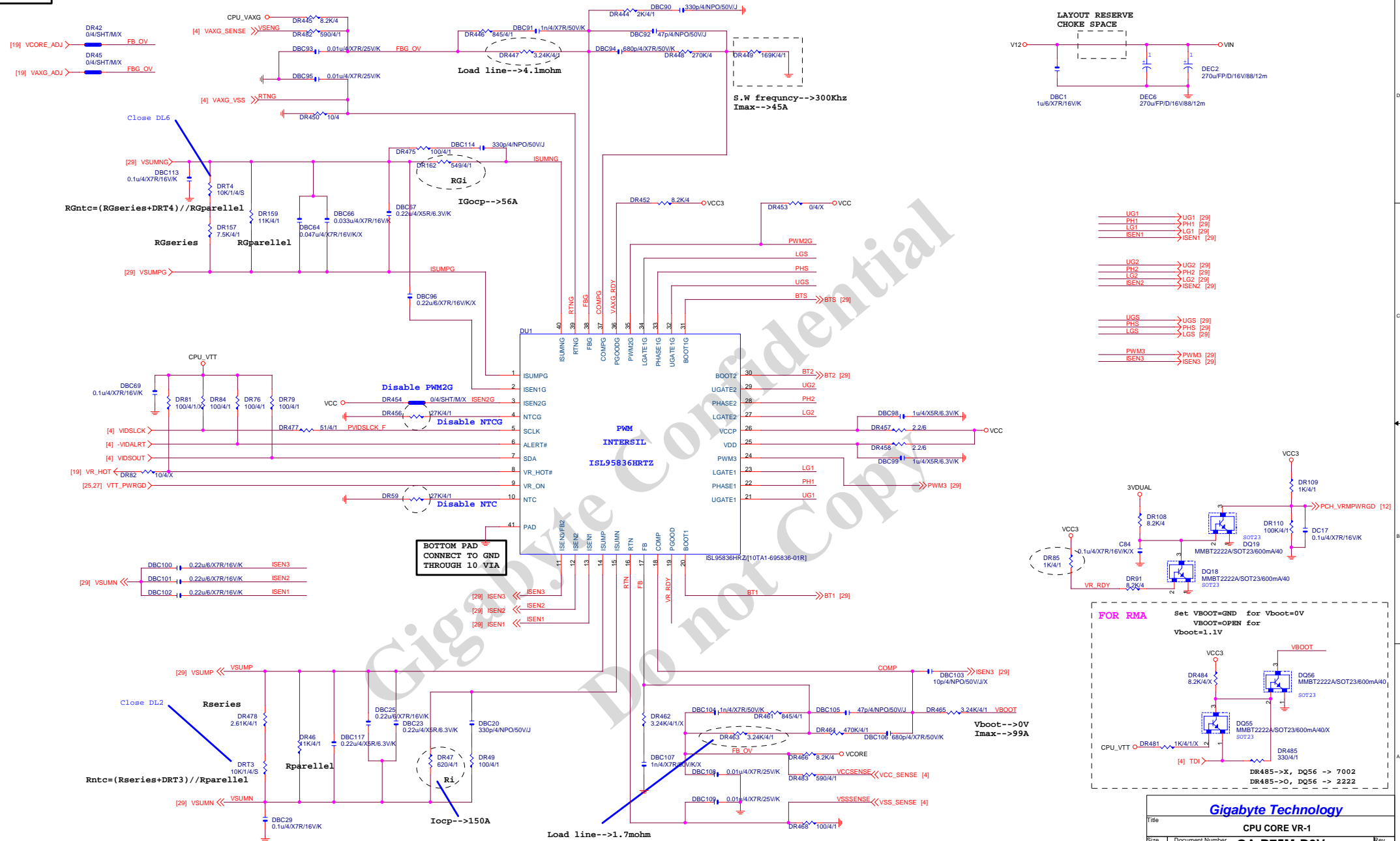


## VTT\_PWRGD

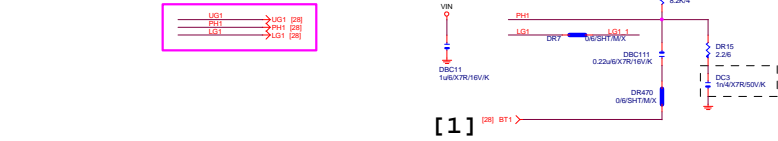


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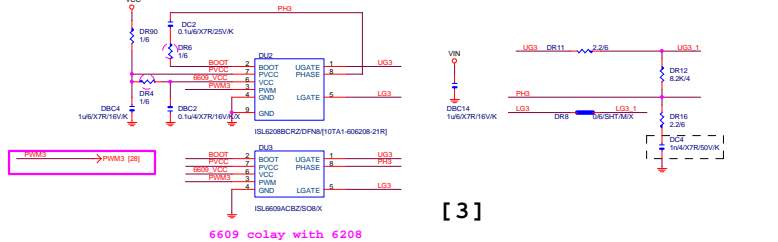
Title		
CPU_VTT PWM_RT8120		
Size	Document Number	Rev
Custpm	GA-B75M-D3V	1.0
Date:	Wednesday, January 18, 2012	Sheet 27 of 32



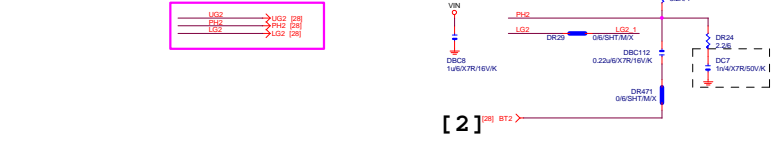
PHASE 1



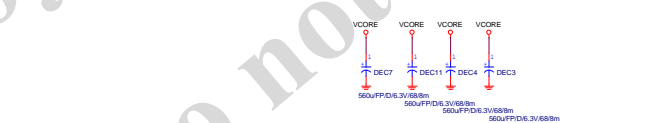
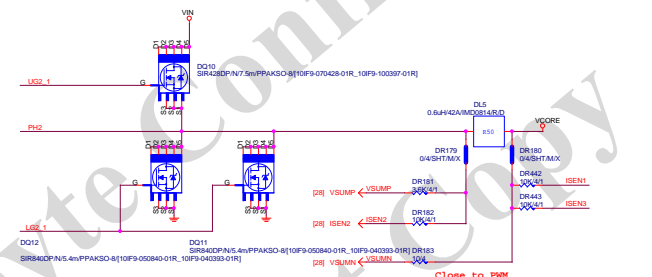
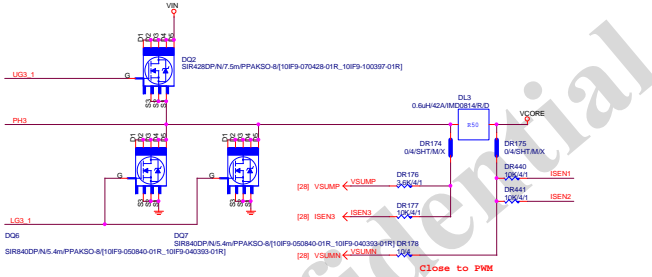
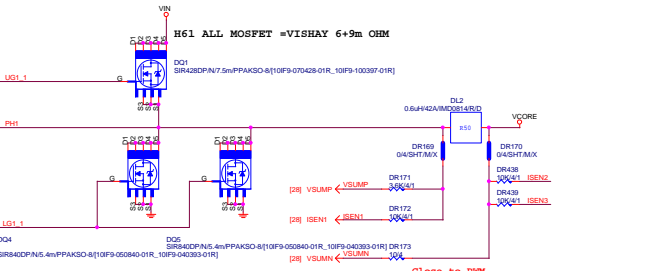
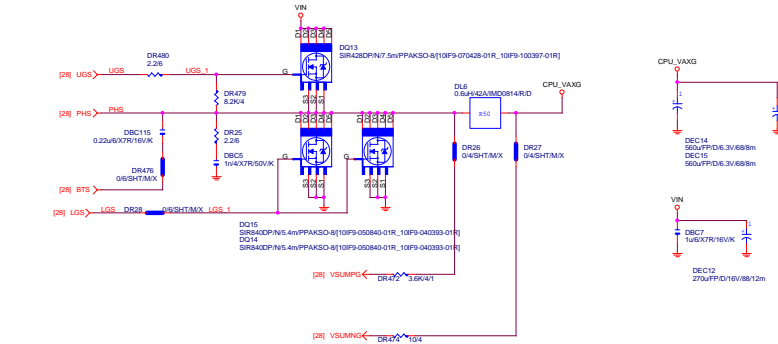
PHASE 3



PHASE 2

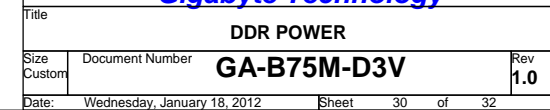
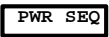


VAXG

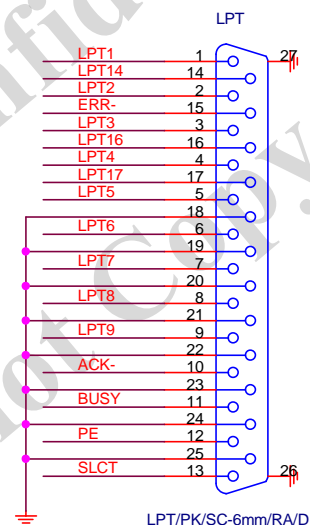




DDR15V



LPT PORT



## Gigabyte Technology

**LPT**

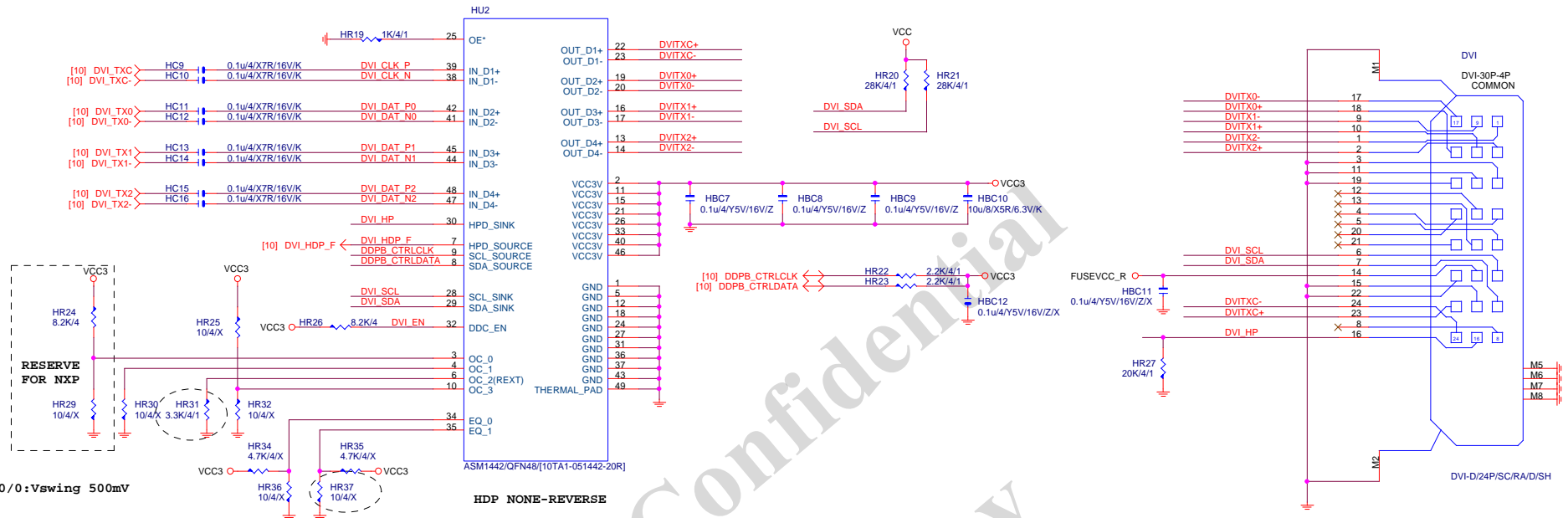
GA-B75M-D3V

Rev	1.0
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# DVI LEVEL SHIFT

PERICOM 0/0/0/0:Vswing 500mV  
 ASM1442  
 DEFAULT 0/1/1 SWING:460mV -4dB

PI3DV411 0 0:3dB  
 ASM1442 1 1:3dB



Gigabyte Technology

Title			DVI
Size			GA-B75M-D3V
Custom	Document Number	Rev	1.0
Date:	Wednesday, January 18, 2012	Sheet	32 of 32