

Model Name: GA-H61M-DS2

Revision 2.01

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,PCL
12	PCH_GPIO,CTRL,AUDIO
13	PCH_PWR,GND
14	PCI EXPRESS*16 SLOT
15	PCI EXPRESS*1x2 SLOT
16	ITE 8728 LPC IO
17	COMA,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 8111E/USB_LAN
24	DISCRETE POWER
25	ATX,-S_WARN,-S_ACK,5VDUAL
26	Richtek RT8120 CPU_VTT
27	VCORE INTERSIL_95836_1

SHEET TITLE

28	VCORE INTERSIL_95836_2
29	VCORE INTERSIL_95836_3
30	LPT

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## 2011/11/30

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Title		BOM & PCB MODIFY HISTORY		Rev	2.0
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Custom					









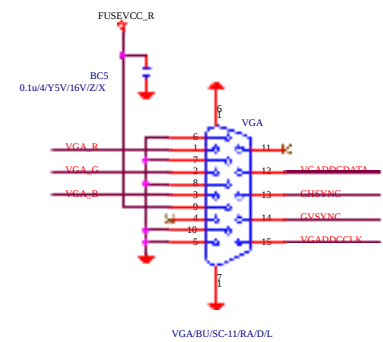
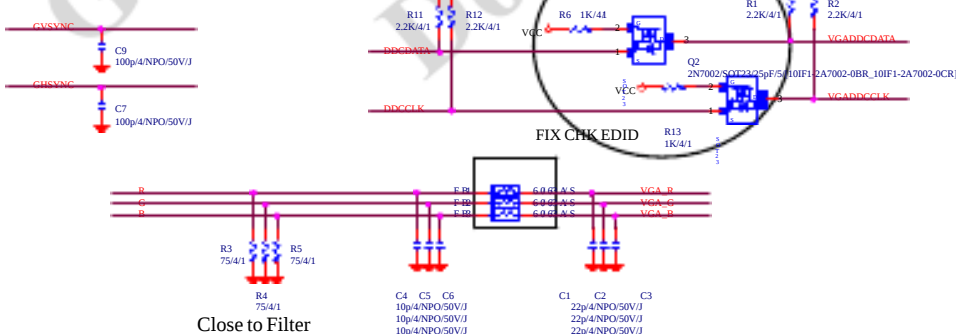
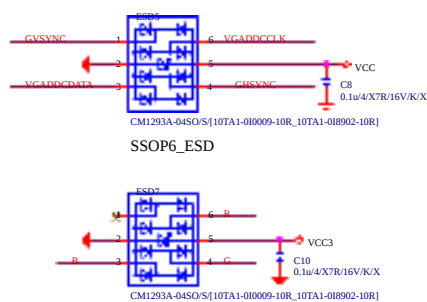
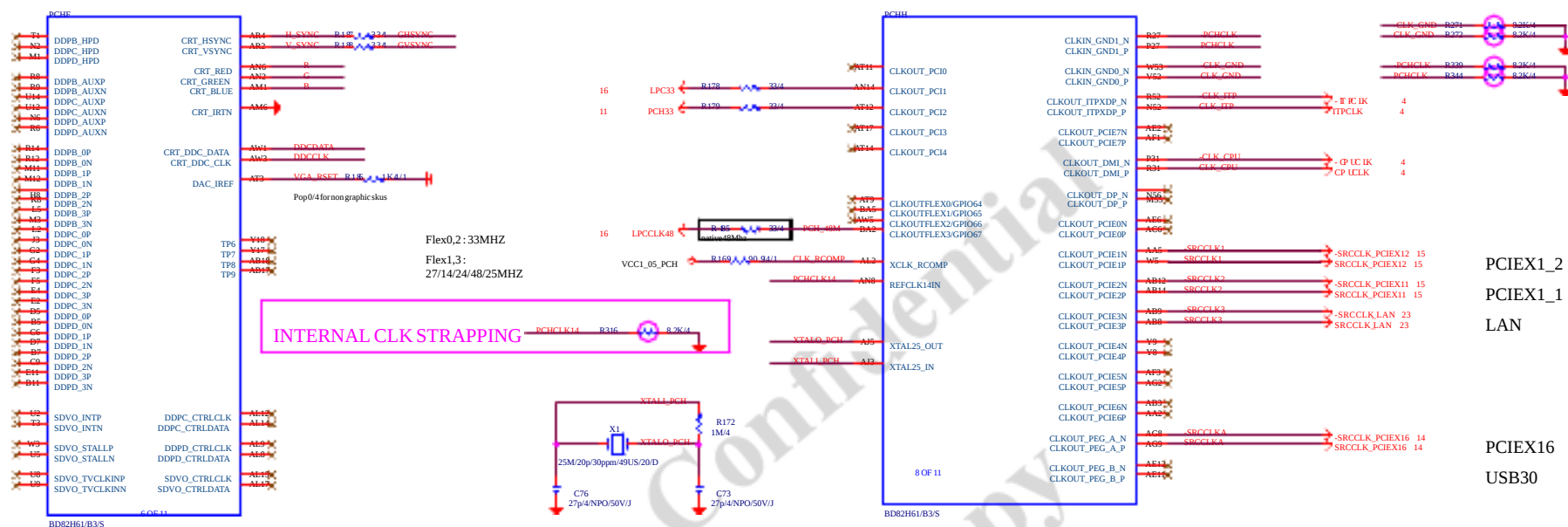












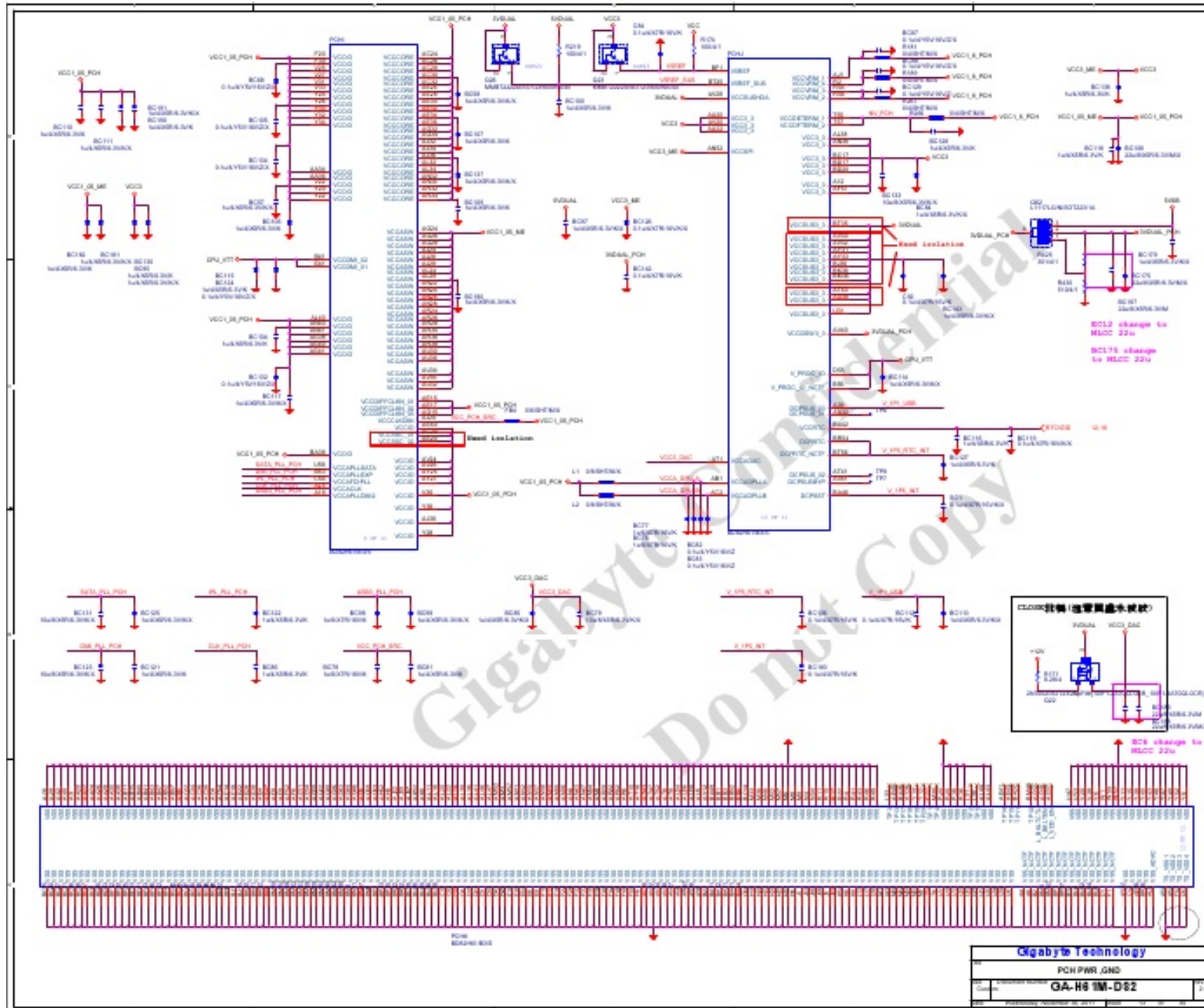
Gigabyte Technology				
Title	PCH DISPLAY ,CLK BUFFER			
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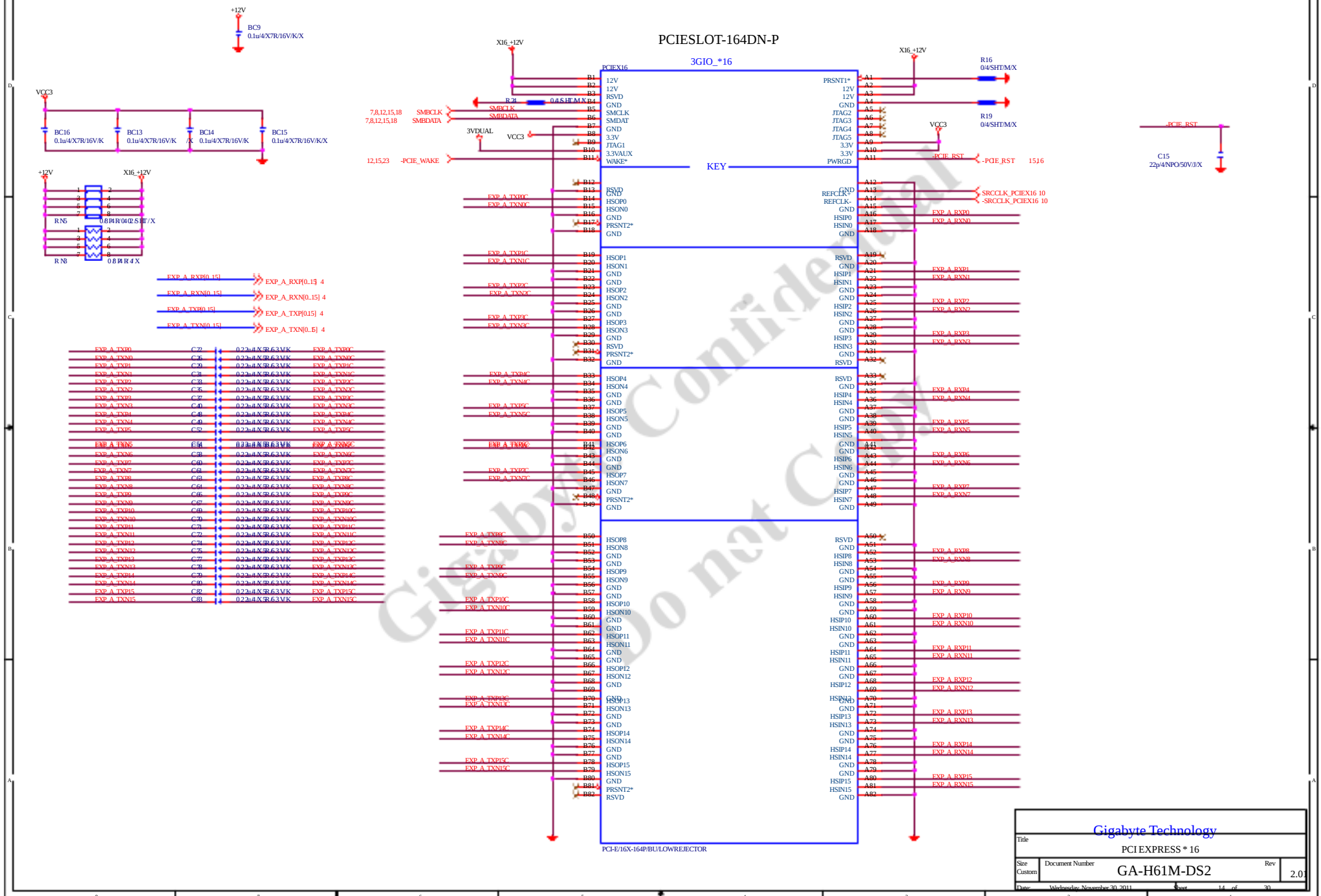
## H1X7-SATA2-HS-MASK







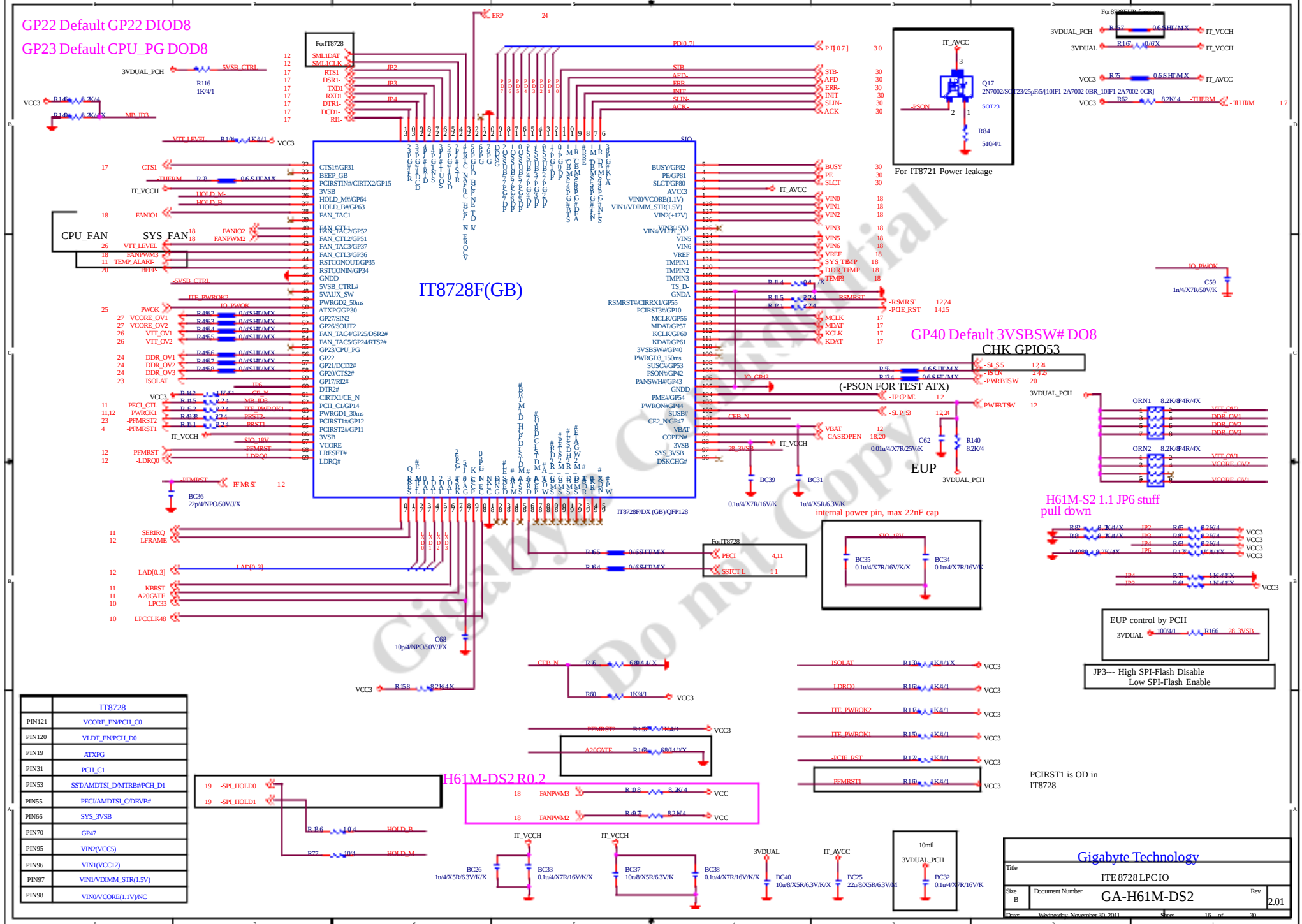






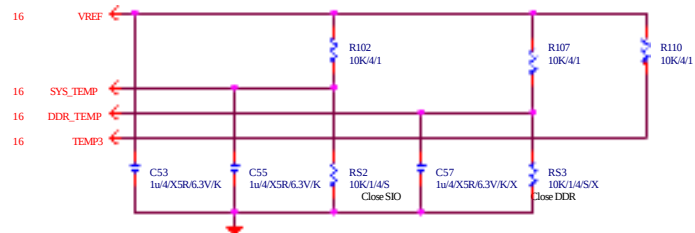


GP22 Default GP22 DIOD8  
GP23 Default CPU\_PG DOD8

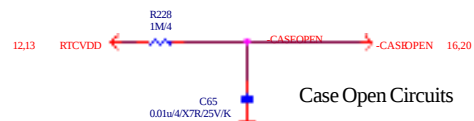




# TEMP H/W MONITOR



# CASE OPEN



Case Open Circuits

# VOLTAGE-- H/W MONITOR

I(VAXG)

I(VCORE)

16

VIN0

CPU\_VTT

C43

1u4/X6R6.3V/K

8.2K/4

0.6X

0.1u4/Y5V/16V/Z/X

BC161

5.1K/4/1/X

3.3K/4/1/X

0.6X

0.1u4/Y5V/16V/Z/X

BC161

5.1K/4/1/X

3.3K/4/1/X

0.6X

0.1u4/Y5V/16V/Z/X

BC161

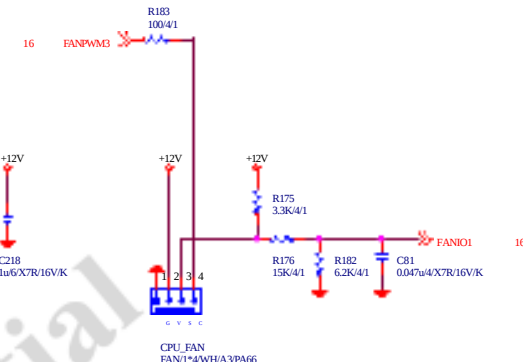
5.1K/4/1/X

3.3K/4/1/X

0.6X

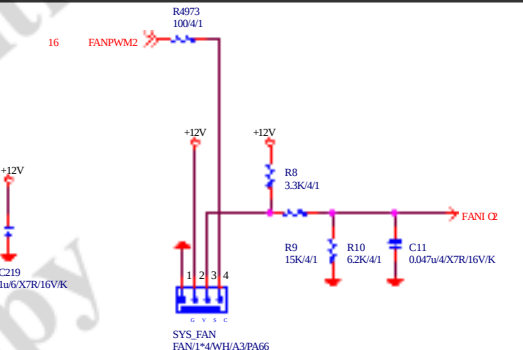
0.1u4/Y5V/16V/Z/X

# CPU SMART FAN

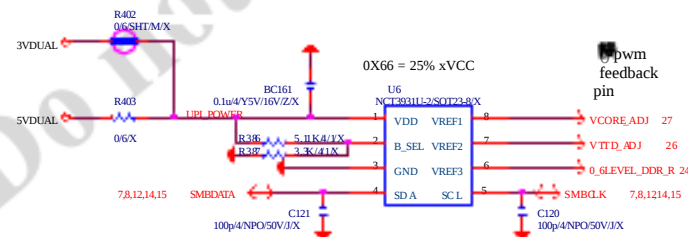


CPU\_FAN  
FAN1\*4WH/A3PA66

# SYS SMART FAN



SYS\_FAN  
FAN1\*4WH/A3PA66

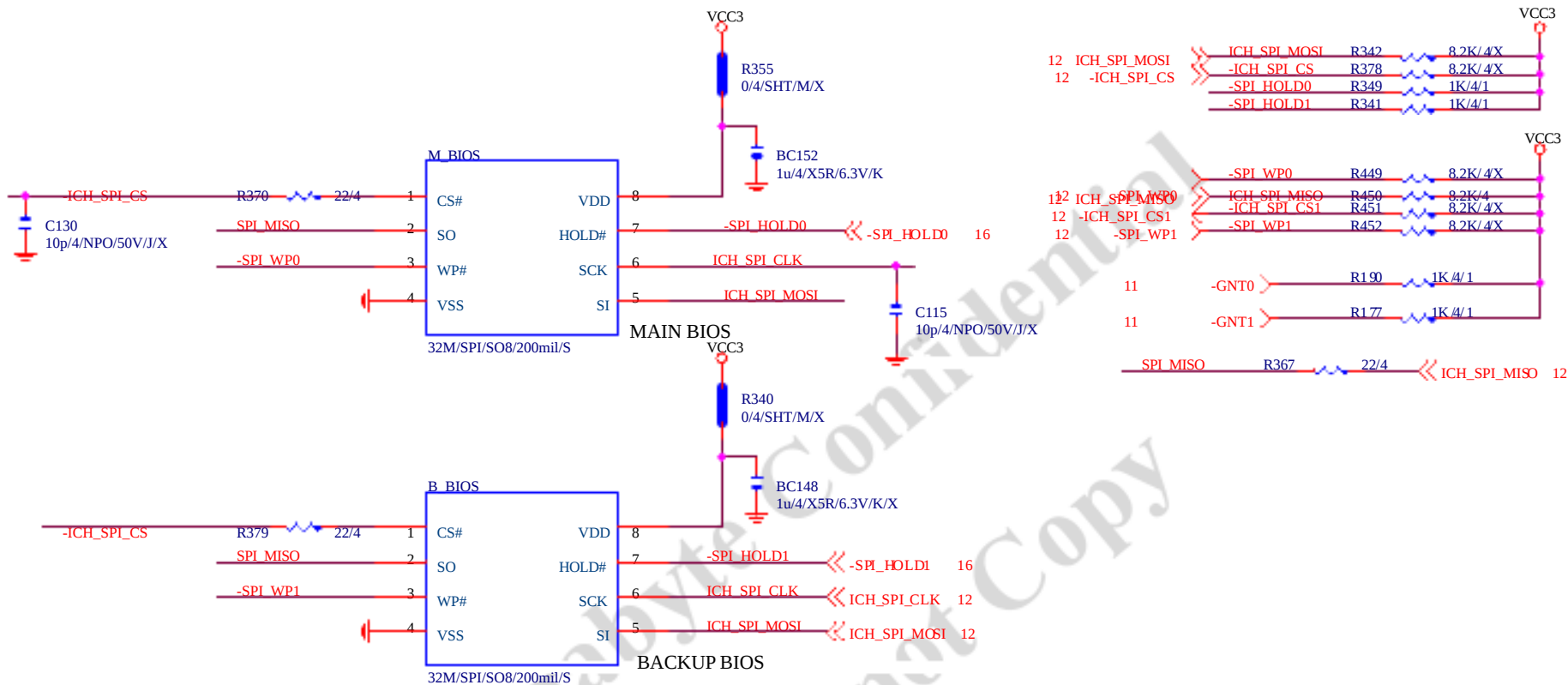


0X66 = 25% xVCC

pwm  
feedback  
pin

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Title HWM,FAN CTRL,OV			
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# DUAL BIOS



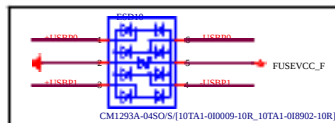
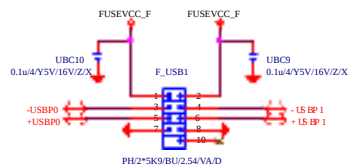
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating  
0 means PD 1K

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DUAL BIOS		
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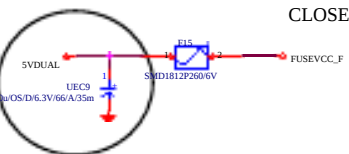
# FRONT USB1



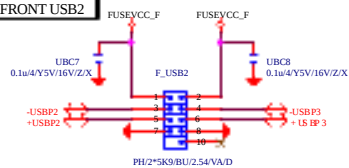
# SATA LED



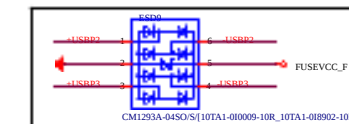
# CLOSE F\_USB1



# FRONT USB2

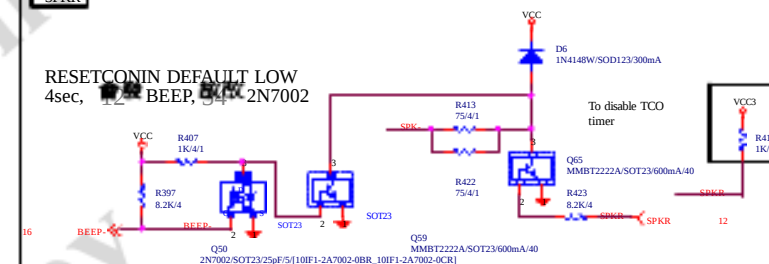


# FRONT USB3



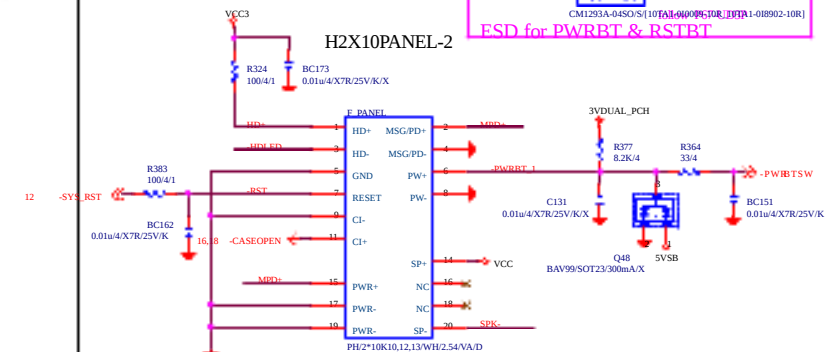
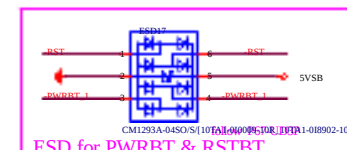
# SPKR

RESETCONIN DEFAULT LOW  
4sec, BEEP, 540 2N7002



# INTEL FRONT PANEL

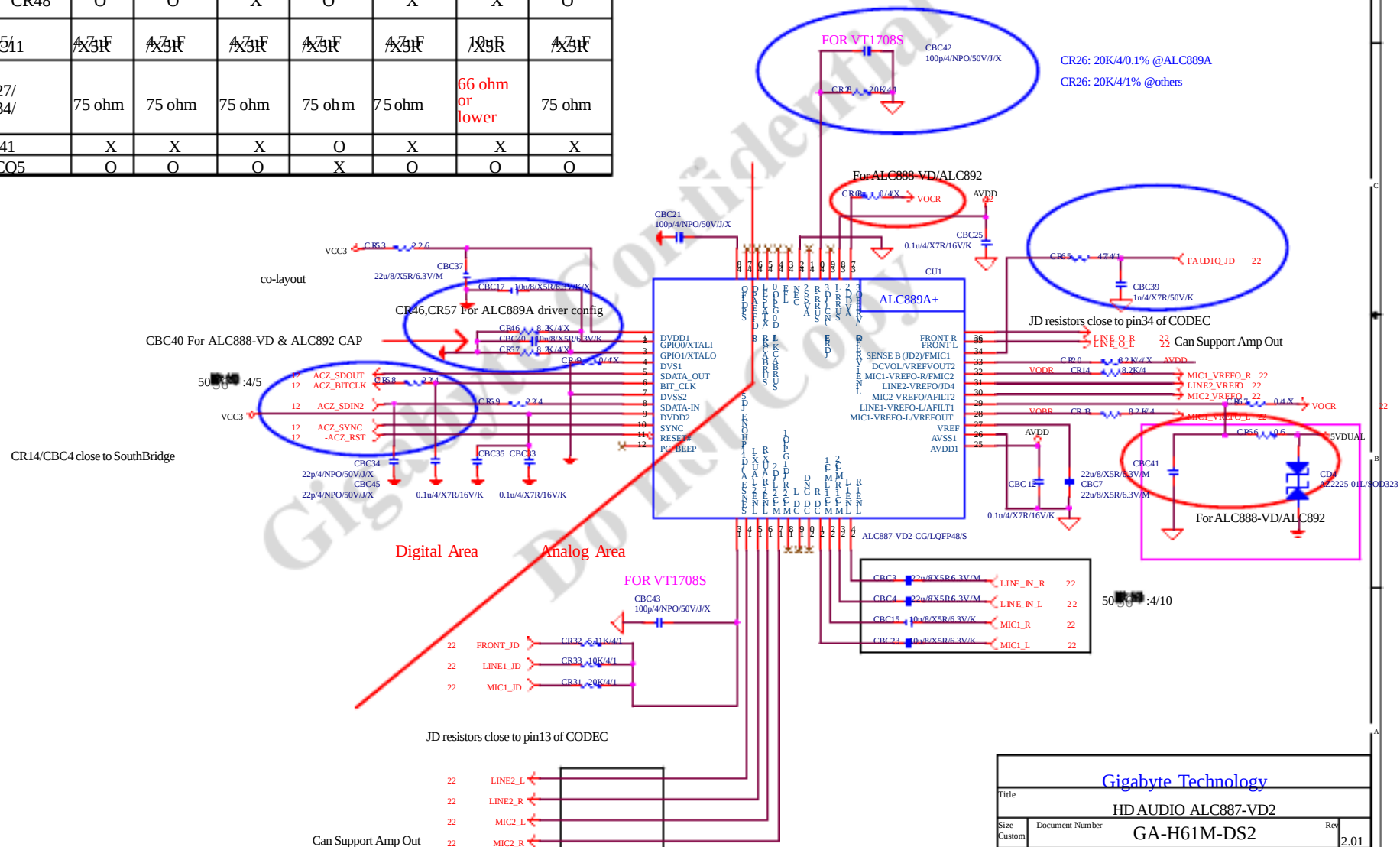
# H2X10PANEL-2



Gigabyte Technology			
Title	F.F.F. USB,USB PWR,SPKR,SATA LED		
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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	10uF	10uF	10uF	10uF	10uF	10uF	10uF
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/CO3/CO5	O	O	O	X	O	O	O

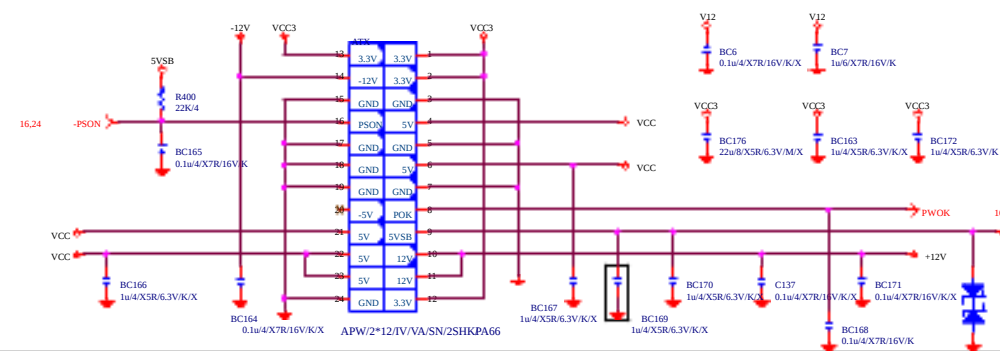




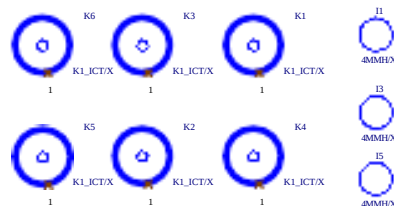
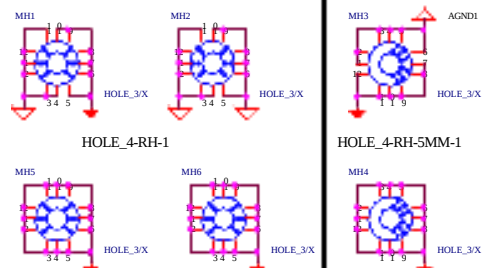
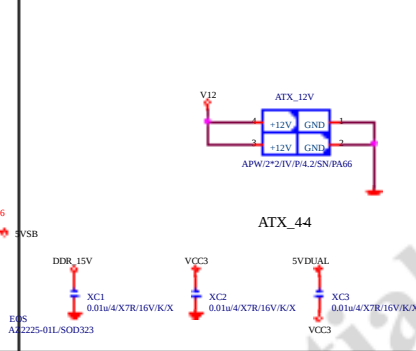




## ATXX24 POWER CONNECTOR



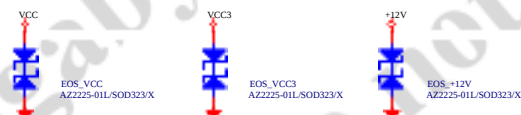
ATXX4 POWER CONNECTOR



To prevent the 5VSB under loading when boot

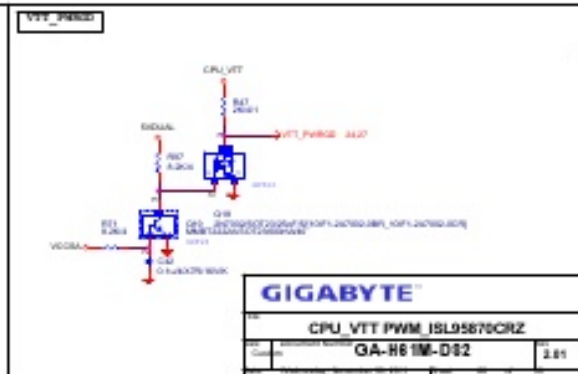
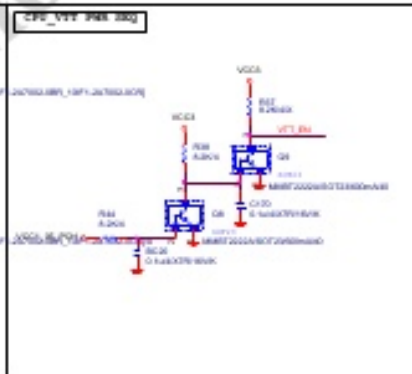
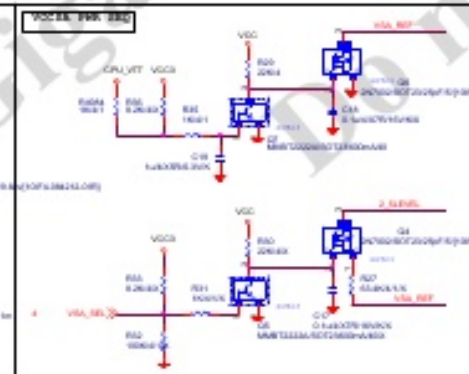
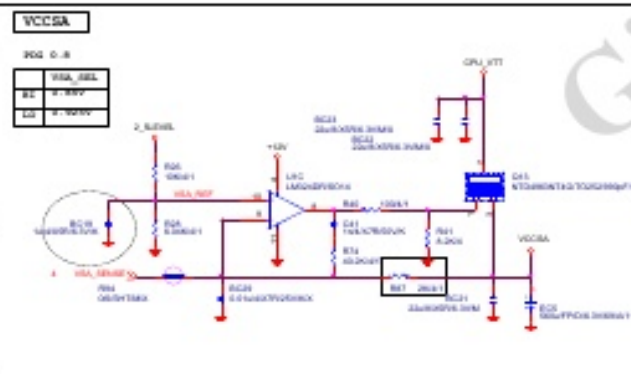
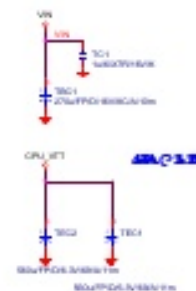
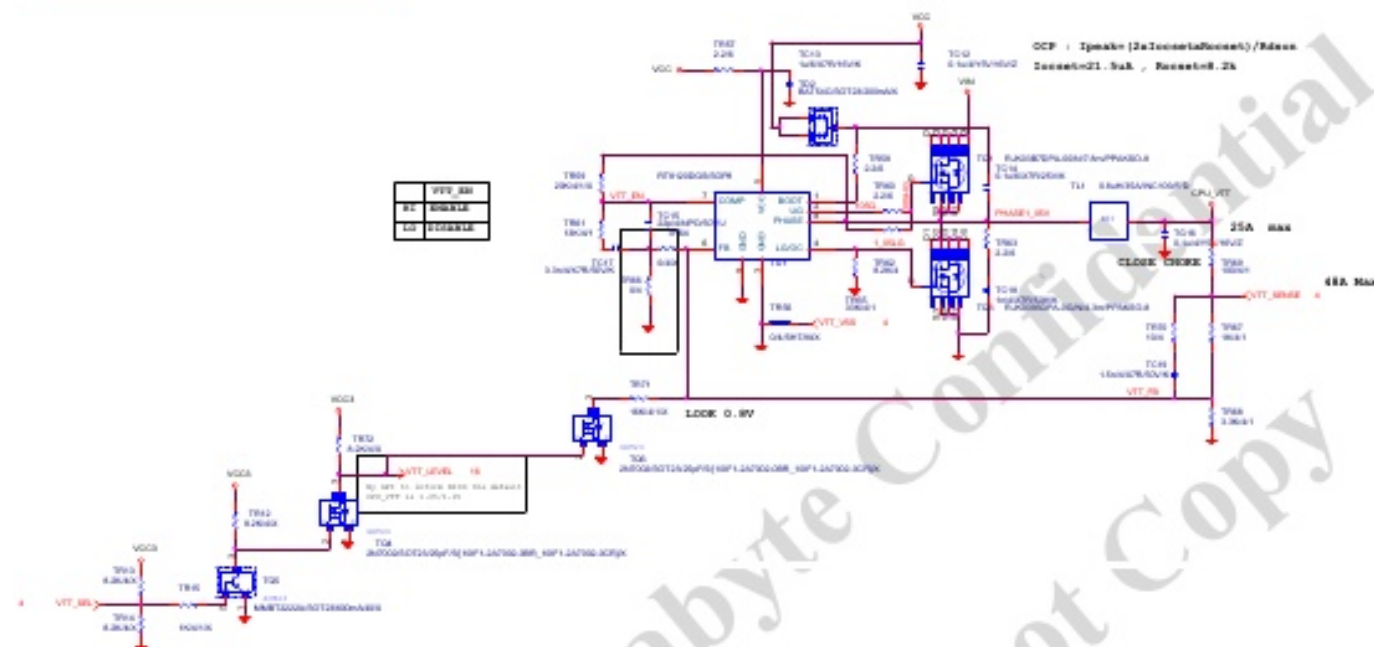
5VDUAL1(USB PORT/DDRIII POWER)  
5VDUAL(3VDUAL/OTHER)

-S\_WARN--&gt;5VDUAL1--&gt;-S\_ACK(PCH)--&gt;-DEPSLP/-RSMRST--&gt;5VDUAL--&gt;3VDUAL



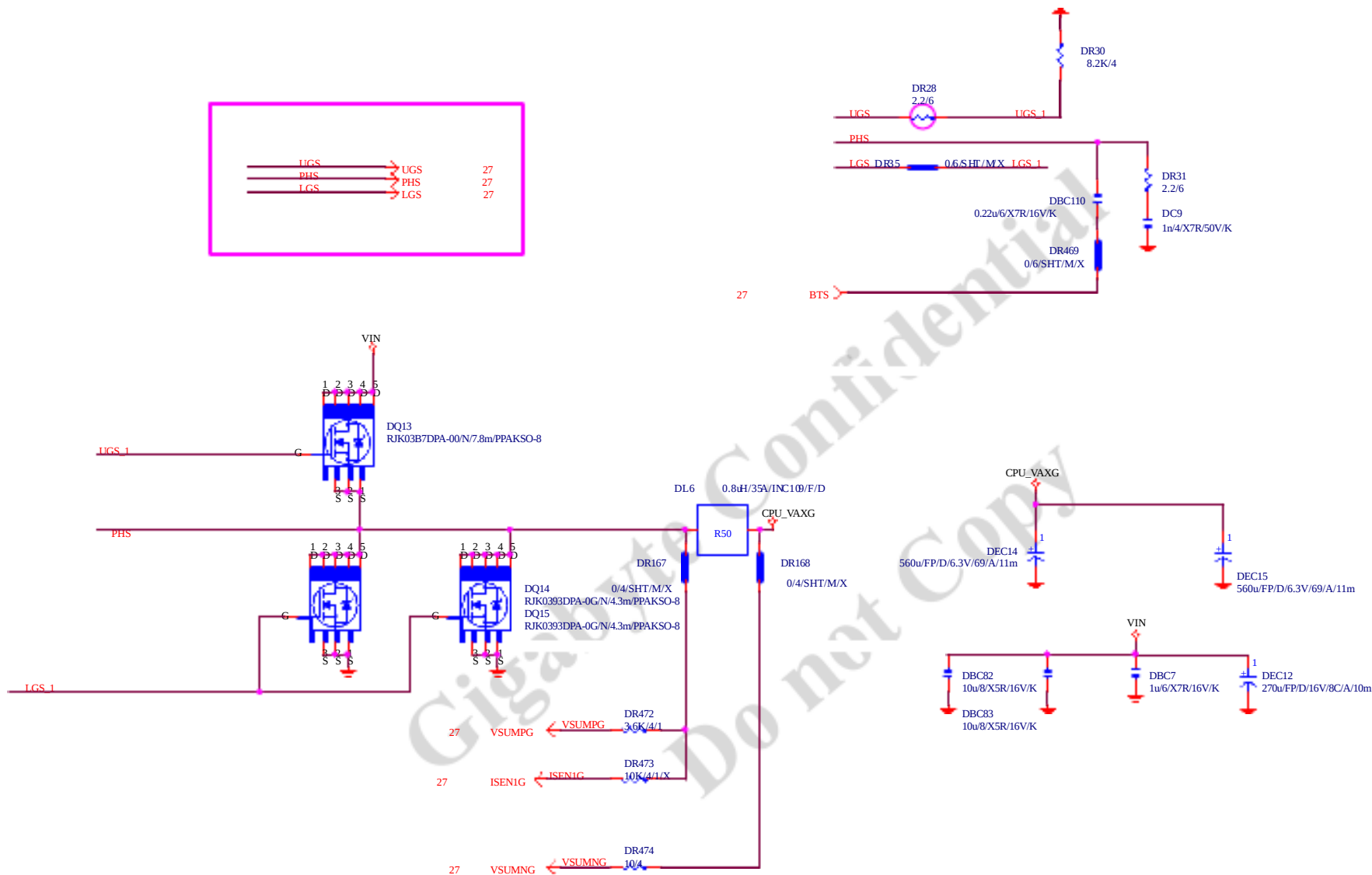
HOLE\_4-RH-5MM-1











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CPU CORE VR-2		
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