

Model Name: GA-H67M-D2-B3

www.xinxunwei.com 400-800-9990

Revision 1.1

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*4 SLOT            |
| 16 | PCI EXPRESS*1x2 SLOT          |
| 17 | ITE 8728 LPC IO               |
| 18 | COM,KB_USB,USB_ESATA,-PROCHOT |
| 19 | HWM,FAN CTRL,OV,COMB          |
| 20 | DUAL BIOS                     |
| 21 | FP,FUSB,SPK,SATALED           |
| 22 | ALC889                        |
| 23 | REAR AUDIO JACK               |
| 24 | REALTEK RTL8111E              |
| 25 | HDMI/DVI                      |
| 26 | USB3.0-UP720200               |
| 27 | DISCRETE POWER                |

SHEET

TITLE

|    |                            |
|----|----------------------------|
| 28 | ATX,-S_WARN,-S_ACK,5VDUAL1 |
| 29 | ISL95870_CPU_VTT           |
| 30 | VCORE ISL6364_1            |
| 31 | VCORE ISL6364_2            |
| 32 | VCORE ISL6364_3            |
| 33 | VCORE ISL6364_4            |

Gigabyte Technology

Cover Sheet

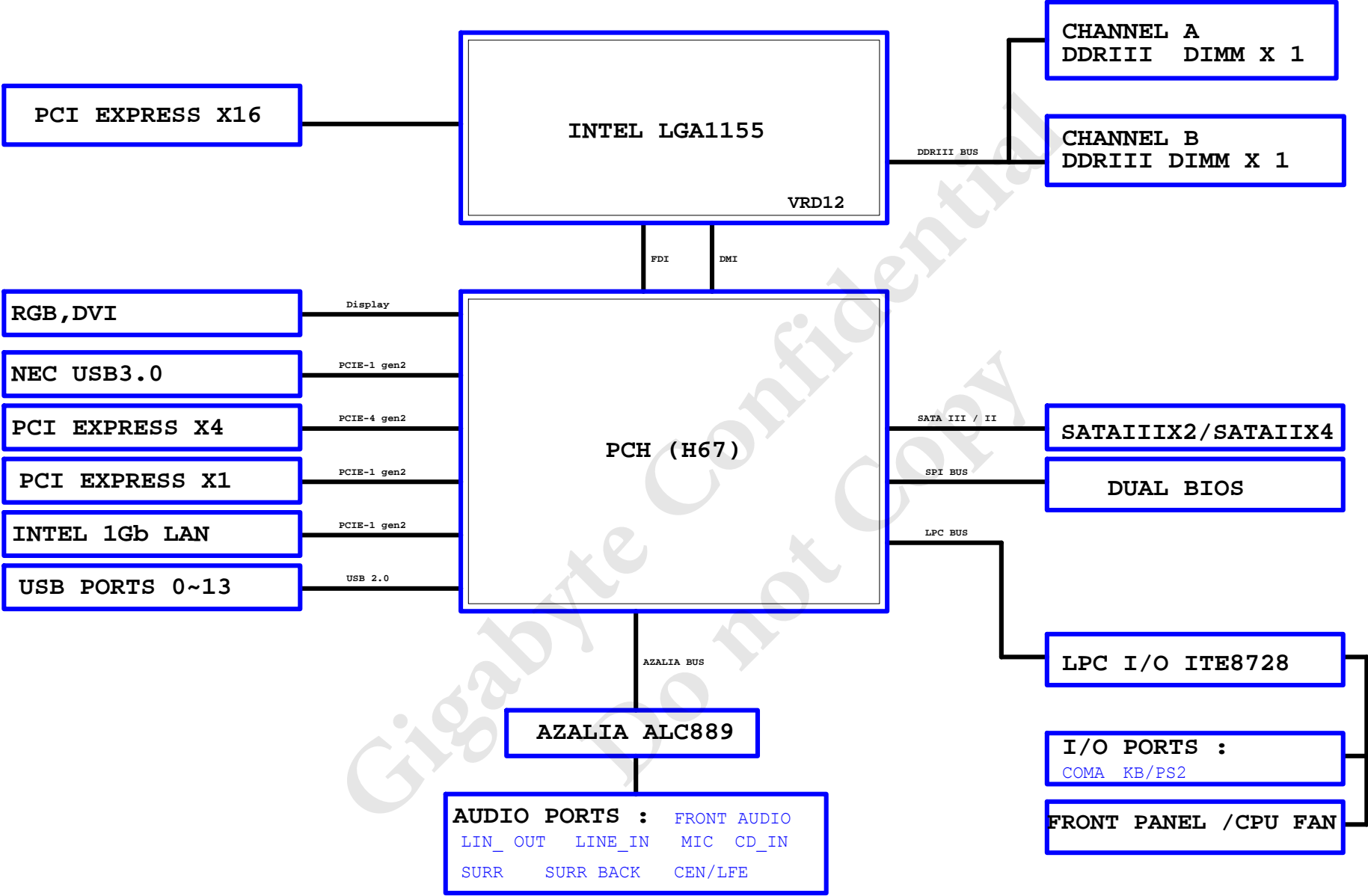
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|---------------------------------------|---|-------------------|
| Size<br>Custom                        | Document Number<br><b>GA-H67M-D2-B3</b> | Rev<br><b>1.1</b> |
| Date:<br>Wednesday, February 09, 2011 | Sheet<br>1                              | of<br>32          |

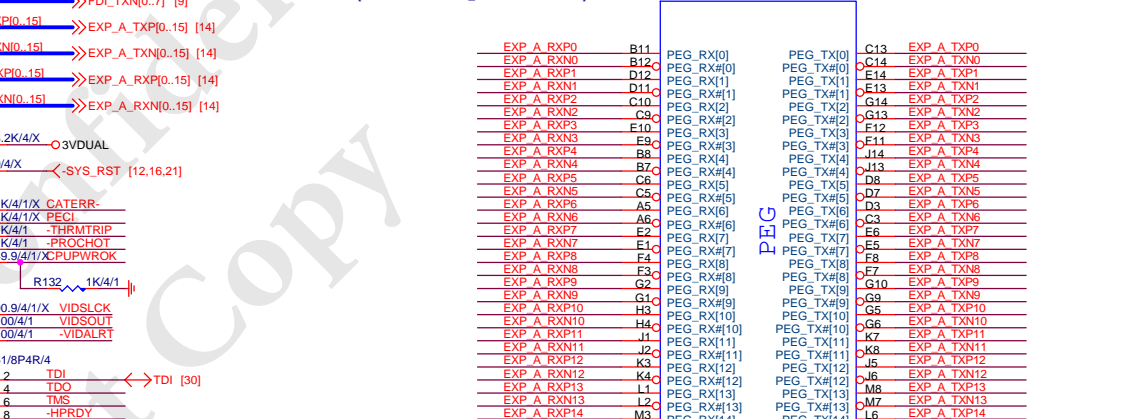
## Circuit or PCB layout change

## Component value change history

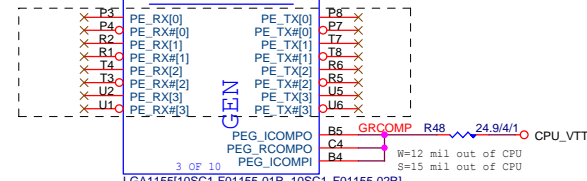
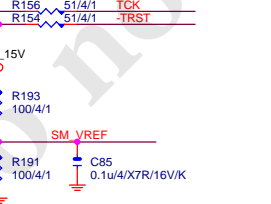
[illegible][illegible]

BLOCK DIAGRAM





CFG 0-17 all internal PULL-UP



|   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |                                    |       |   |    |    |
|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|------------------------------------|-------|---|----|----|
| 5 |  |  |  |  | 4 |  |  |  |  | 3 |  |  |  |  | 2 |  |  |  |  | 1 |  |  |  |  | Date: Wednesday, February 09, 2011 | Sheet | 4 | of | 32 |
|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|------------------------------------|-------|---|----|----|

## CPUA

|             |      |           |           |      |        |
|-------------|------|-----------|-----------|------|--------|
| MAAA0       | AV27 | SA_MA[0]  | SA_DS[0]  | AK3  | DQSA0  |
| MAAA1       | AY24 | SA_MA[1]  | SA_DS[0]  | AK2  | -DQSA0 |
| MAAA2       | AW24 | SA_MA[2]  |           |      |        |
| MAAA3       | AV23 | SA_MA[3]  |           |      |        |
| MAAA4       | AV23 | SA_MA[3]  | SA_DS[0]  | AJ3  | MDA0   |
| MAAA5       | AT24 | SA_MA[4]  | SA_DS[1]  | AJ4  | MDA1   |
| MAAA6       | AT23 | SA_MA[5]  | SA_DS[2]  | AL3  | MDA2   |
| MAAA7       | AV22 | SA_MA[6]  | SA_DS[3]  | AL4  | MDA3   |
| MAAA8       | AV22 | SA_MA[7]  | SA_DS[4]  | AJ2  | MDA4   |
| MAAA9       | AT22 | SA_MA[8]  | SA_DS[5]  | AJ1  | MDA5   |
| MAAA10      | AV28 | SA_MA[9]  | SA_DS[6]  | AL2  | MDA6   |
| MAAA11      | AT21 | SA_MA[10] | SA_DS[7]  | AL1  | MDA7   |
| MAAA12      | AT21 | SA_MA[11] |           |      |        |
| MAAA13      | AW32 | SA_MA[12] | SA_DS[11] | AP3  | DQSA1  |
| MAAA14      | AU20 | SA_MA[13] | SA_DS[11] | AP2  | -DQSA1 |
| MAAA15      | AT20 | SA_MA[14] |           |      |        |
|             |      | SA_MA[15] |           |      |        |
| [7] -SWEA   | AW29 | SA_WE#    | SA_DS[8]  | AN1  | MDA8   |
| [7] -SCASA  | AV30 | SA_CAS#   | SA_DS[9]  | AN4  | MDA9   |
| [7] -SRASA  | AU28 | SA_RAS#   | SA_DS[10] | AR3  | MDA10  |
|             |      |           | SA_DS[11] | AR4  | MDA11  |
| [7] SBAA0   | AY29 | SA_BS[0]  | SA_DS[12] | AN2  | MDA12  |
| [7] SBAA1   | AW28 | SA_BS[1]  | SA_DS[13] | AN3  | MDA13  |
| [7] SBAA2   | AV20 | SA_BS[2]  | SA_DS[14] | AR2  | MDA14  |
|             |      |           | SA_DS[15] | AR1  | MDA15  |
|             |      |           |           |      |        |
| [7] -CSA0   | AY29 | SA_CS#    | SA_DS[2]  | AW4  | DQSA2  |
| [7] -CSA1   | AV32 | SA_CS#    | SA_DS[2]  | AV4  | -DQSA2 |
|             |      |           | SA_DS[3]  |      |        |
|             |      |           |           |      |        |
| [7] CKEA0   | AV19 | SA_CKE[0] | SA_DS[16] | AV2  | MDA16  |
| [7] CKEA1   | AT19 | SA_CKE[1] | SA_DS[17] | AW3  | MDA17  |
|             |      |           | SA_DS[18] | AV5  | MDA18  |
|             |      |           | SA_DS[19] | AW5  | MDA19  |
|             |      |           | SA_DS[20] | AJ2  | MDA20  |
|             |      |           | SA_DS[21] | AJ3  | MDA21  |
|             |      |           | SA_DS[22] | AJ5  | MDA22  |
|             |      |           | SA_DS[23] | AY5  | MDA23  |
|             |      |           |           |      |        |
|             |      |           | SA_DS[3]  | AV8  | DQSA3  |
|             |      |           | SA_DS[3]  | AW8  | -DQSA3 |
|             |      |           |           |      |        |
| [7] DCLKA0  | AY25 | SA_CLK[0] | SA_DS[25] | AY7  | MDA24  |
| [7] -DCLKA0 | AW25 | SA_CLK[0] | SA_DS[25] | AJ7  | MDA25  |
| [7] DCLKA1  | AU24 | SA_CLK[1] | SA_DS[26] | AV9  | MDA26  |
| [7] -DCLKA1 | AY25 | SA_CLK[1] | SA_DS[27] | AJ9  | MDA27  |
|             |      |           | SA_DS[28] | AV7  | MDA28  |
|             |      |           | SA_DS[29] | AW7  | MDA29  |
|             |      |           | SA_DS[30] | AW9  | MDA30  |
|             |      |           | SA_DS[31] | AY9  | MDA31  |
|             |      |           |           |      |        |
|             |      |           | SA_DS[4]  | AV37 | DQSA4  |
|             |      |           | SA_DS[4]  | AV36 | -DQSA4 |
|             |      |           |           |      |        |
|             |      |           | SA_DS[32] | AJ35 | MDA32  |
|             |      |           | SA_DS[33] | AW37 | MDA33  |
|             |      |           | SA_DS[34] | AJ39 | MDA34  |
|             |      |           | SA_DS[35] | AJ36 | MDA35  |
|             |      |           | SA_DS[36] | AW35 | MDA36  |
|             |      |           | SA_DS[37] | AY36 | MDA37  |
|             |      |           | SA_DS[38] | AJ38 | MDA38  |
|             |      |           | SA_DS[39] | AJ37 | MDA39  |
|             |      |           |           |      |        |
|             |      |           | SA_DS[5]  | AP38 | DQSA5  |
|             |      |           | SA_DS[5]  | AP39 | -DQSA5 |
|             |      |           |           |      |        |
|             |      |           | SA_DS[40] | AR40 | MDA40  |
|             |      |           | SA_DS[41] | AR37 | MDA41  |
|             |      |           | SA_DS[42] | AN38 | MDA42  |
|             |      |           | SA_DS[43] | AN37 | MDA43  |
|             |      |           | SA_DS[44] | AR39 | MDA44  |
|             |      |           | SA_DS[45] | AR38 | MDA45  |
|             |      |           | SA_DS[46] | AN39 | MDA46  |
|             |      |           | SA_DS[47] | AN40 | MDA47  |
|             |      |           |           |      |        |
|             |      |           | SA_DS[6]  | AK38 | DQSA6  |
|             |      |           | SA_DS[6]  | AK39 | -DQSA6 |
|             |      |           |           |      |        |
|             |      |           | SA_DS[48] | AL40 | MDA48  |
|             |      |           | SA_DS[49] | AL37 | MDA49  |
|             |      |           | SA_DS[50] | AJ38 | MDA50  |
|             |      |           | SA_DS[51] | AJ37 | MDA51  |
|             |      |           | SA_DS[52] | AL39 | MDA52  |
|             |      |           | SA_DS[53] | AL38 | MDA53  |
|             |      |           | SA_DS[54] | AJ39 | MDA54  |
|             |      |           | SA_DS[55] | AJ40 | MDA55  |
|             |      |           |           |      |        |
|             |      |           | SA_DS[7]  | AF38 | DQSA7  |
|             |      |           | SA_DS[7]  | AF39 | -DQSA7 |
|             |      |           |           |      |        |
|             |      |           | SA_DS[56] | AG40 | MDA56  |
|             |      |           | SA_DS[57] | AG37 | MDA57  |
|             |      |           | SA_DS[58] | AE38 | MDA58  |
|             |      |           | SA_DS[59] | AE37 | MDA59  |
|             |      |           | SA_DS[60] | AG39 | MDA60  |
|             |      |           | SA_DS[61] | AG38 | MDA61  |
|             |      |           | SA_DS[62] | AE39 | MDA62  |
|             |      |           | SA_DS[63] | AE40 | MDA63  |

DDR\_0

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LGA1155[10SC1-F01155-01R\_10SC1-F01155-02R]

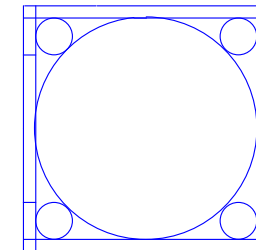
## CPUB

|             |      |           |           |      |        |
|-------------|------|-----------|-----------|------|--------|
| MAAB0       | AK24 | SB_MA[0]  | SB_DS[0]  | AH7  | DQSB0  |
| MAAB1       | AM20 | SB_MA[1]  | SB_DS[0]  | AH6  | -DQSB0 |
| MAAB2       | AM19 | SB_MA[2]  |           |      |        |
| MAAB3       | AK18 | SB_MA[3]  |           |      |        |
| MAAB4       | AP19 | SB_MA[4]  | SB_DS[0]  | AG7  | MDB0   |
| MAAB5       | AP18 | SB_MA[5]  | SB_DS[1]  | AG8  | MDB1   |
| MAAB6       | AM18 | SB_MA[6]  | SB_DS[2]  | AJ9  | MDB2   |
| MAAB7       | AL18 | SB_MA[7]  | SB_DS[3]  | AJ8  | MDB3   |
| MAAB8       | AN18 | SB_MA[8]  | SB_DS[4]  | AG5  | MDB4   |
| MAAB9       | AY17 | SB_MA[9]  | SB_DS[5]  | AG6  | MDB5   |
| MAAB10      | AN23 | SB_MA[10] | SB_DS[6]  | AJ6  | MDB6   |
| MAAB11      | AU17 | SB_MA[11] | SB_DS[7]  | AJ7  | MDB7   |
| MAAB12      | AT18 | SB_MA[12] |           |      |        |
| MAAB13      | AR26 | SB_MA[13] | SB_DS[11] | AM8  | DQSB1  |
| MAAB14      | AY16 | SB_MA[14] | SB_DS[11] | AL8  | -DQSB1 |
| MAAB15      | AV16 | SB_MA[15] |           |      |        |
|             |      |           |           |      |        |
| [8] -SWEB   | AR25 | SB_WE#    | SB_DS[8]  | AL7  | MDB8   |
| [8] -SCASB  | AK25 | SB_CAS#   | SB_DS[9]  | AM7  | MDB9   |
| [8] -SRASB  | AP24 | SB_RAS#   | SB_DS[10] | AM10 | MDB10  |
|             |      |           | SB_DS[11] | AL10 | MDB11  |
| [8] SBAB0   | AP23 | SB_BS[0]  | SB_DS[12] | AL6  | MDB12  |
| [8] SBAB1   | AW17 | SB_BS[1]  | SB_DS[13] | AL9  | MDB14  |
| [8] SBAB2   | AW17 | SB_BS[2]  | SB_DS[14] | AM9  | MDB15  |
|             |      |           | SB_DS[15] |      |        |
| [8] -CSB0   | AN25 | SB_CS#    | SB_DS[2]  | AR8  | DQSB2  |
| [8] -CSB1   | AN26 | SB_CS#    | SB_DS[2]  | AP8  | -DQSB2 |
|             |      |           | SB_DS[3]  |      |        |
|             |      |           |           |      |        |
| [8] CKEB0   | AU18 | SB_CKE[0] | SB_DS[16] | AR7  | MDB17  |
| [8] CKEB1   | AY15 | SB_CKE[1] | SB_DS[17] | AR7  | MDB17  |
|             |      |           | SB_DS[18] | AP10 | MDB18  |
|             |      |           | SB_DS[19] | AR10 | MDB19  |
|             |      |           | SB_DS[20] | AP6  | MDB20  |
|             |      |           | SB_DS[21] | AP9  | MDB21  |
|             |      |           | SB_DS[22] | AR9  | MDB22  |
|             |      |           | SB_DS[23] | AR9  | MDB23  |
|             |      |           |           |      |        |
|             |      |           | SB_DS[3]  | AN13 | DQSB3  |
|             |      |           | SB_DS[3]  | AN12 | -DQSB3 |
|             |      |           |           |      |        |
| [8] DCLKB0  | AL21 | SB_CLK[0] | SB_DS[24] | AM12 | MDB24  |
| [8] -DCLKB0 | AL22 | SB_CLK[0] | SB_DS[25] | AM13 | MDB25  |
| [8] DCLKB1  | AK20 | SB_CLK[1] | SB_DS[26] | AR13 | MDB26  |
| [8] -DCLKB1 | AK20 | SB_CLK[1] | SB_DS[27] | AP13 | MDB27  |
|             |      |           | SB_DS[28] | AL12 | MDB28  |
|             |      |           | SB_DS[29] | AL13 | MDB29  |
|             |      |           | SB_DS[30] | AR12 | MDB30  |
|             |      |           | SB_DS[31] | AP12 | MDB31  |
|             |      |           |           |      |        |
|             |      |           | SB_DS[4]  | AN28 | DQSB4  |
|             |      |           | SB_DS[4]  | AN28 | -DQSB4 |
|             |      |           |           |      |        |
|             |      |           | SB_DS[32] | AR28 | MDB32  |
|             |      |           | SB_DS[33] | AR29 | MDB33  |
|             |      |           | SB_DS[34] | AL28 | MDB34  |
|             |      |           | SB_DS[35] | AL29 | MDB35  |
|             |      |           | SB_DS[36] | AP28 | MDB36  |
|             |      |           | SB_DS[37] | AP29 | MDB37  |
|             |      |           | SB_DS[38] | AM28 | MDB38  |
|             |      |           | SB_DS[39] | AM29 | MDB39  |
|             |      |           |           |      |        |
|             |      |           | SB_DS[5]  | AP33 | DQSB5  |
|             |      |           | SB_DS[5]  | AP33 | -DQSB5 |
|             |      |           |           |      |        |
|             |      |           | SB_DS[40] | AP32 | MDB40  |
|             |      |           | SB_DS[41] | AP31 | MDB41  |
|             |      |           | SB_DS[42] | AP35 | MDB42  |
|             |      |           | SB_DS[43] | AP34 | MDB43  |
|             |      |           | SB_DS[44] | AR32 | MDB44  |
|             |      |           | SB_DS[45] | AR31 | MDB45  |
|             |      |           | SB_DS[46] | AR35 | MDB46  |
|             |      |           | SB_DS[47] | AR34 | MDB47  |
|             |      |           |           |      |        |
|             |      |           | SB_DS[6]  | AL33 | DQSB6  |
|             |      |           | SB_DS[6]  | AM33 | -DQSB6 |
|             |      |           |           |      |        |
|             |      |           | SB_DS[48] | AM32 | MDB48  |
|             |      |           | SB_DS[49] | AM31 | MDB49  |
|             |      |           | SB_DS[50] | AL35 | MDB50  |
|             |      |           | SB_DS[51] | AL32 | MDB51  |
|             |      |           | SB_DS[52] | AM34 | MDB52  |
|             |      |           | SB_DS[53] | AL31 | MDB53  |
|             |      |           | SB_DS[54] | AM35 | MDB54  |
|             |      |           | SB_DS[55] | AL34 | MDB55  |
|             |      |           |           |      |        |
|             |      |           | SB_DS[7]  | AG35 | DQSB7  |
|             |      |           | SB_DS[7]  | AG34 | -DQSB7 |
|             |      |           |           |      |        |
|             |      |           | SB_DS[56] | AH35 | MDB56  |
|             |      |           | SB_DS[57] | AH34 | MDB57  |
|             |      |           | SB_DS[58] | AE34 | MDB58  |
|             |      |           | SB_DS[59] | AE35 | MDB59  |
|             |      |           | SB_DS[60] | AJ35 | MDB60  |
|             |      |           | SB_DS[61] | AJ34 | MDB61  |
|             |      |           | SB_DS[62] | AE33 | MDB62  |
|             |      |           | SB_DS[63] | AE33 | MDB63  |

DDR\_1

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LGA1155[10SC1-F01155-01R\_10SC1-F01155-02R]

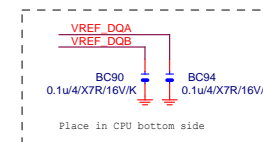
CR  
CPU RETENTION/X

Need check the new CPU ME

CPU\_P

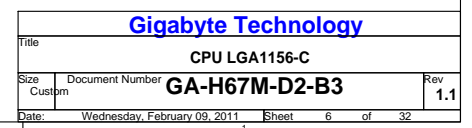


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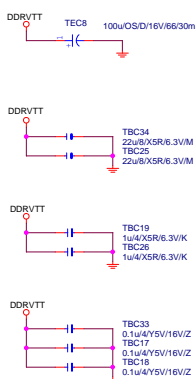


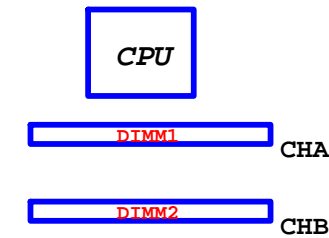
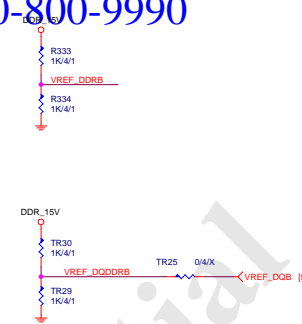
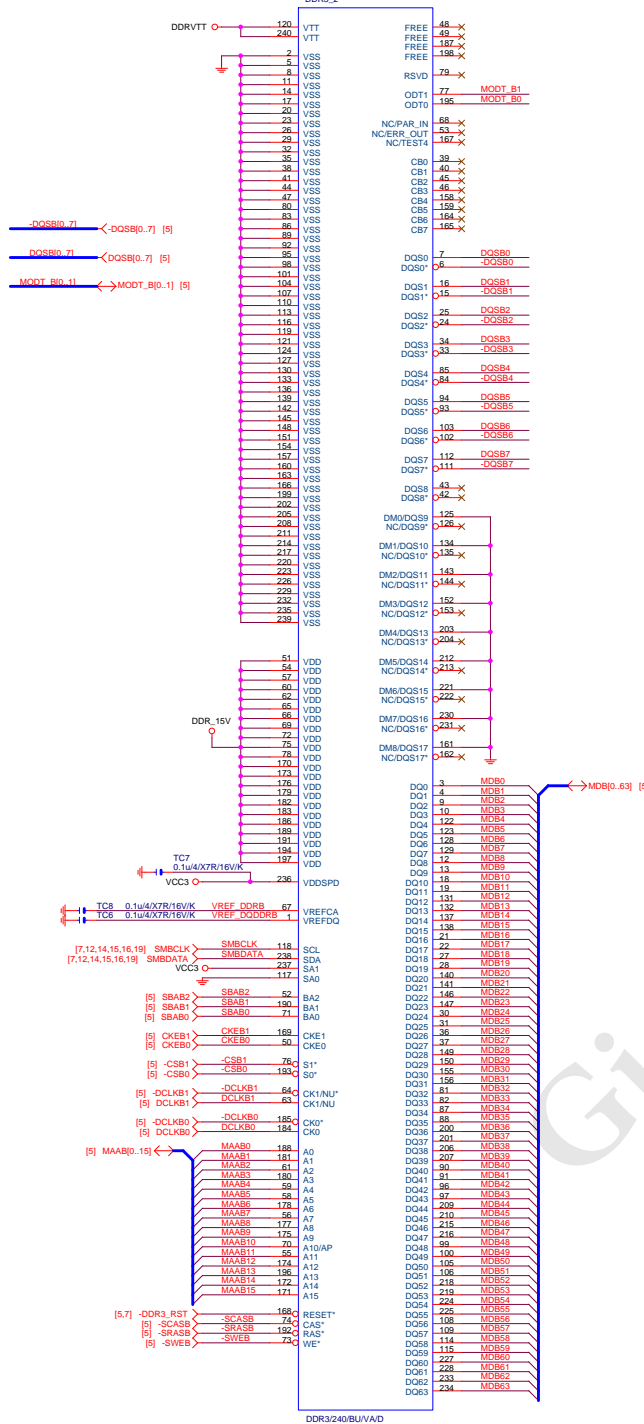
Gigabyte Technology

|                 |                              |       |               |       |
|-----------------|------------------------------|-------|---------------|-------|
| Title           |                              |       | CPU LGA1156-B |       |
| Size            |                              |       | GA-H67M-D2-B3 |       |
| Document Number |                              |       | Rev 1.1       |       |
| Date:           | Wednesday, February 09, 2011 | Sheet | 5             | of 32 |

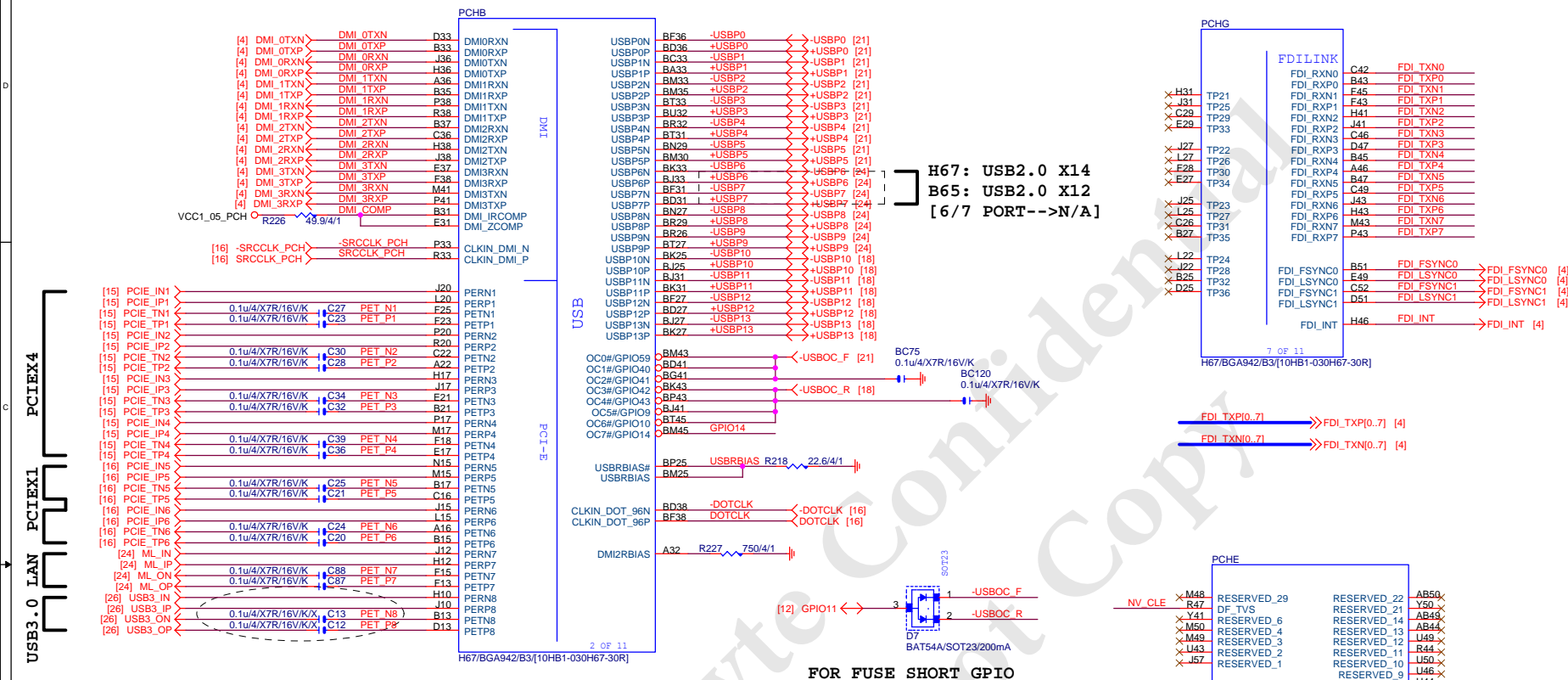






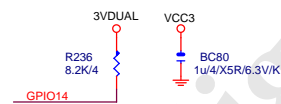




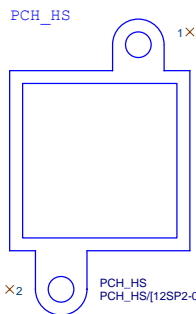


FOR FUSE SHORT GPIO

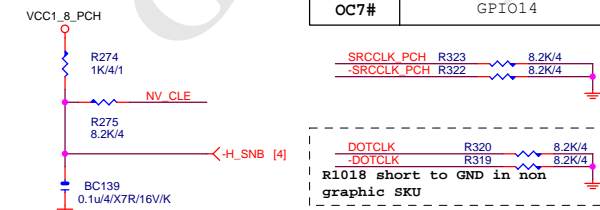
| USB OC# | Configure                |
|---------|--------------------------|
| OC0#    | USB0,1(F_USB1)           |
| OC1#    | USB2,3(F_USB2)           |
| OC2#    | USB4,5(F_USB3)           |
| OC3#    | USB6,7(USB_LAN)          |
| OC4#    | USB8,9(R_USB1:CO-LAYOUT) |
| OC5#    | USB10-11(R_USB2)         |
| OC6#    | USB12-13(R_USB3)         |
| OC7#    | GPIO14                   |



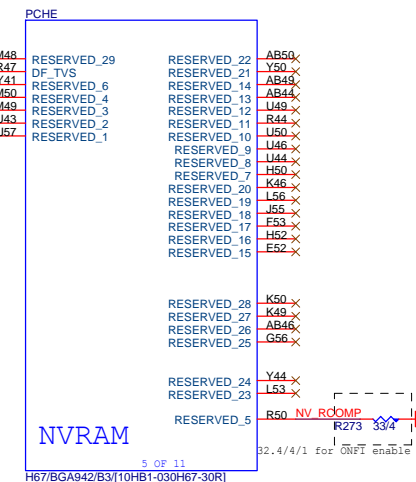
NEW FOOTPRINT: BGAHSINK\_PCH\_HS



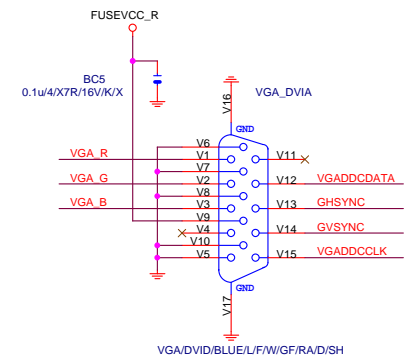
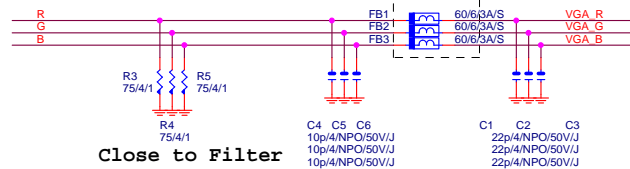
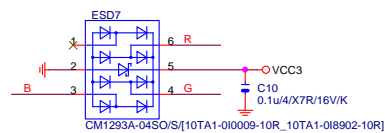
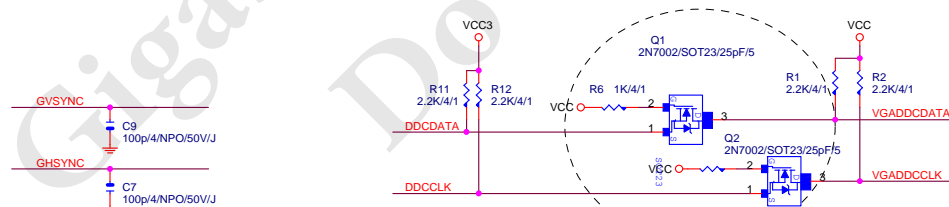
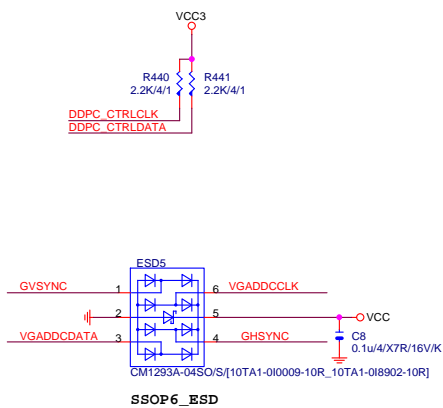
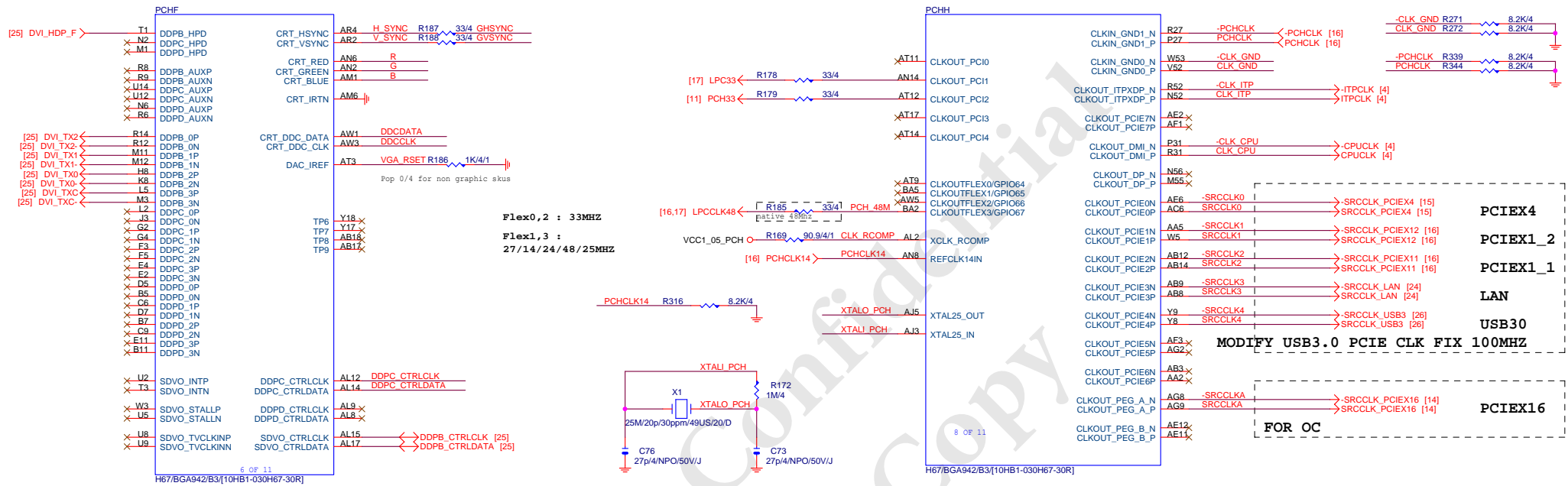
FOR MICRO-ATX



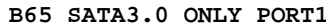
DMI /FDI termination voltage

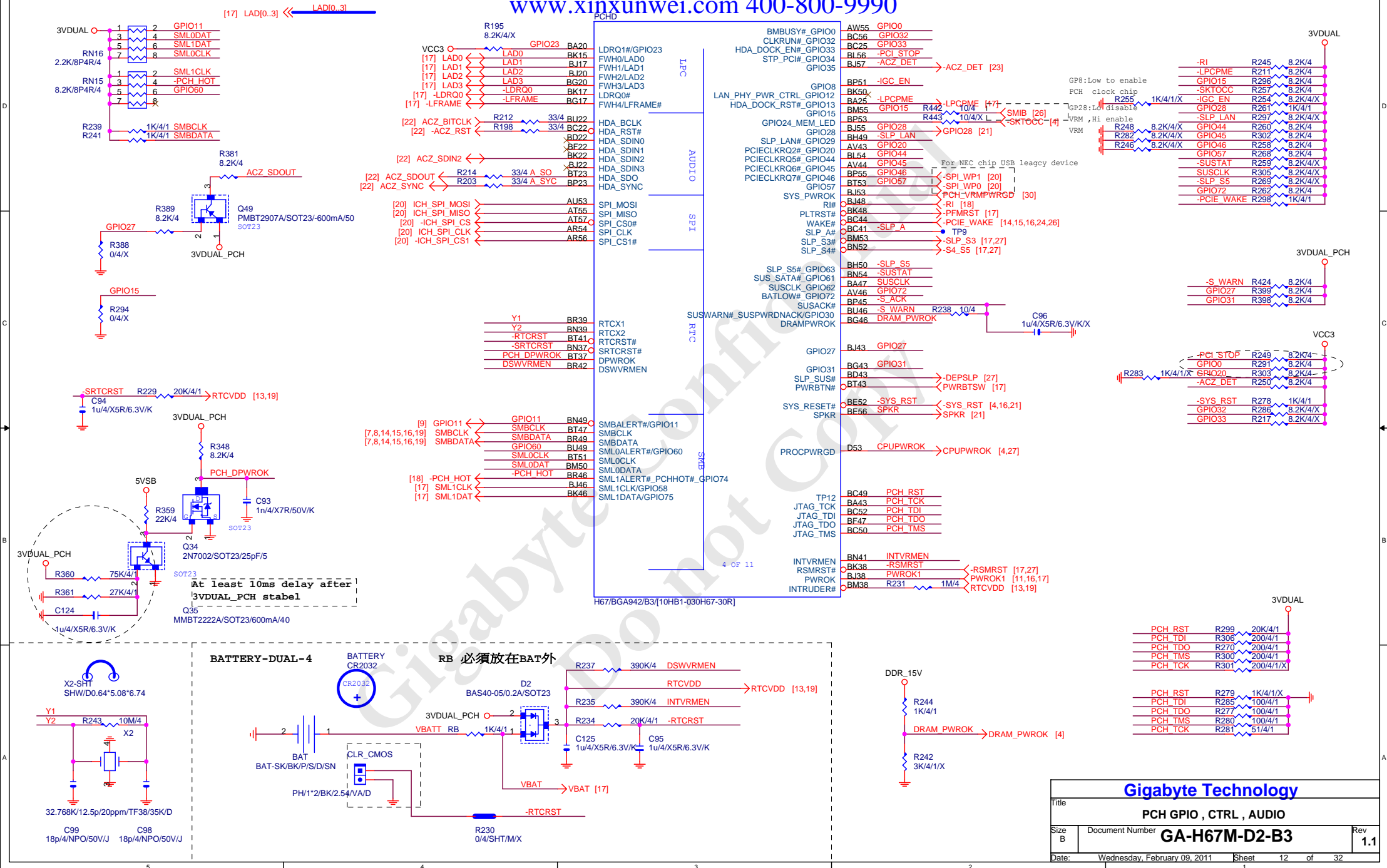


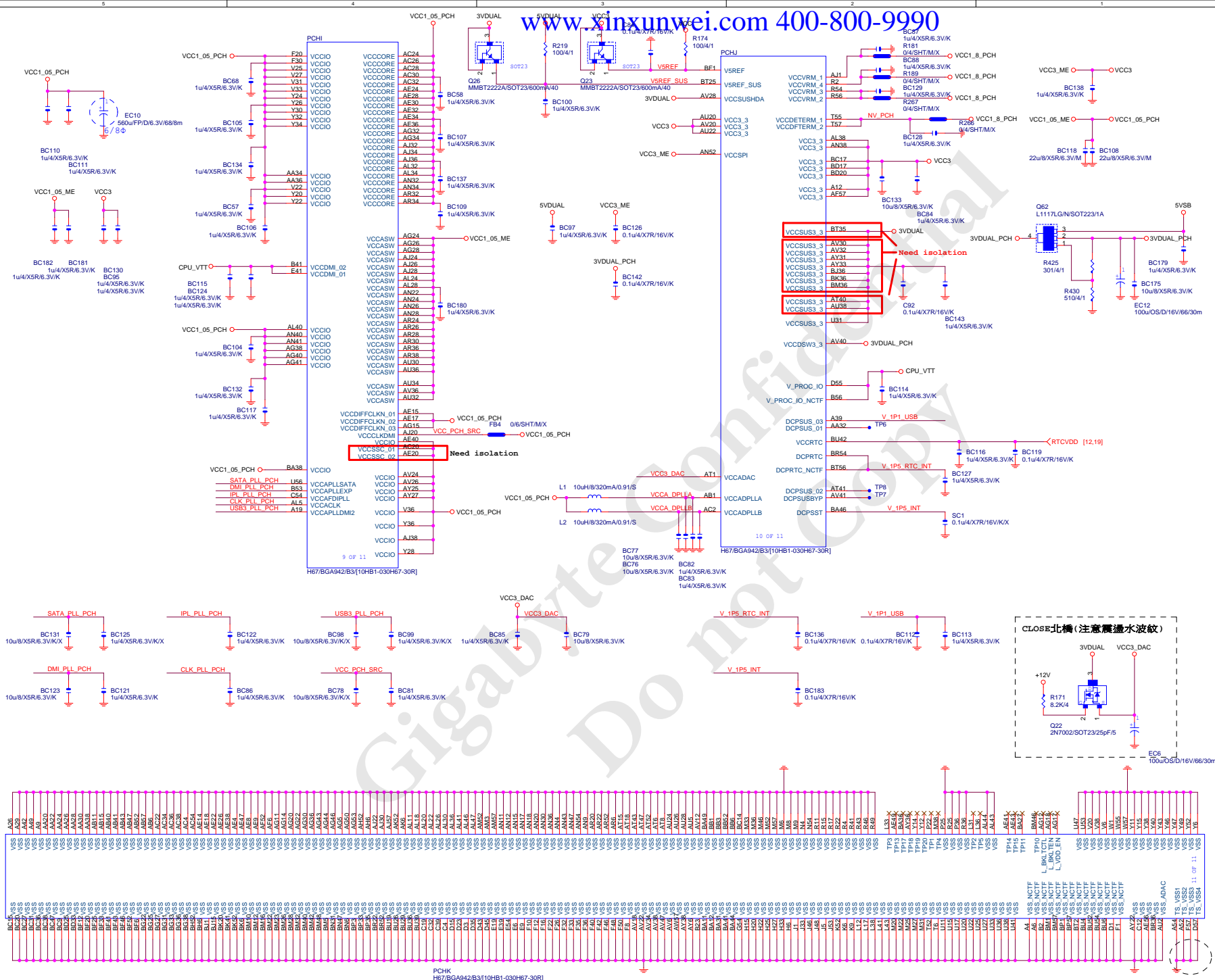
NVRAM



| Gigabyte Technology     |                              |       |          |
|-------------------------|------------------------------|-------|----------|
| PCH DISPLAY, CLK BUFFER |                              |       |          |
| GA-H67M-D2-B3           |                              |       |          |
| Title                   | Document Number              | Rev   | 1.1      |
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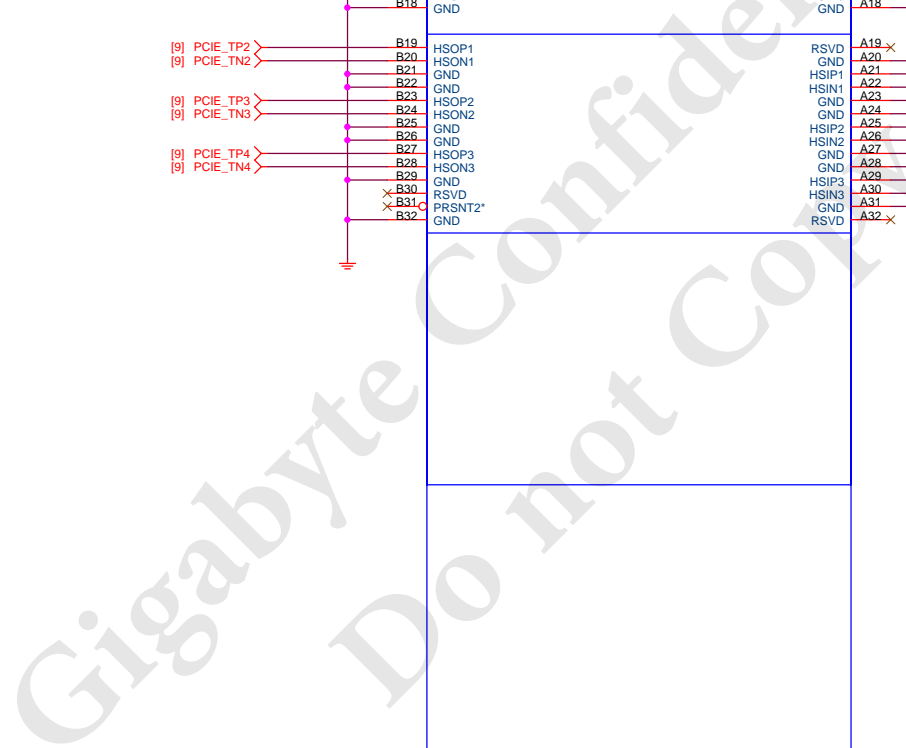




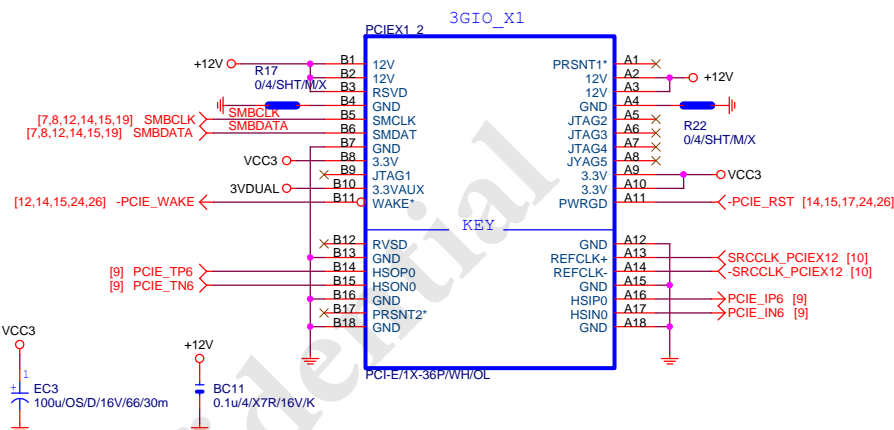






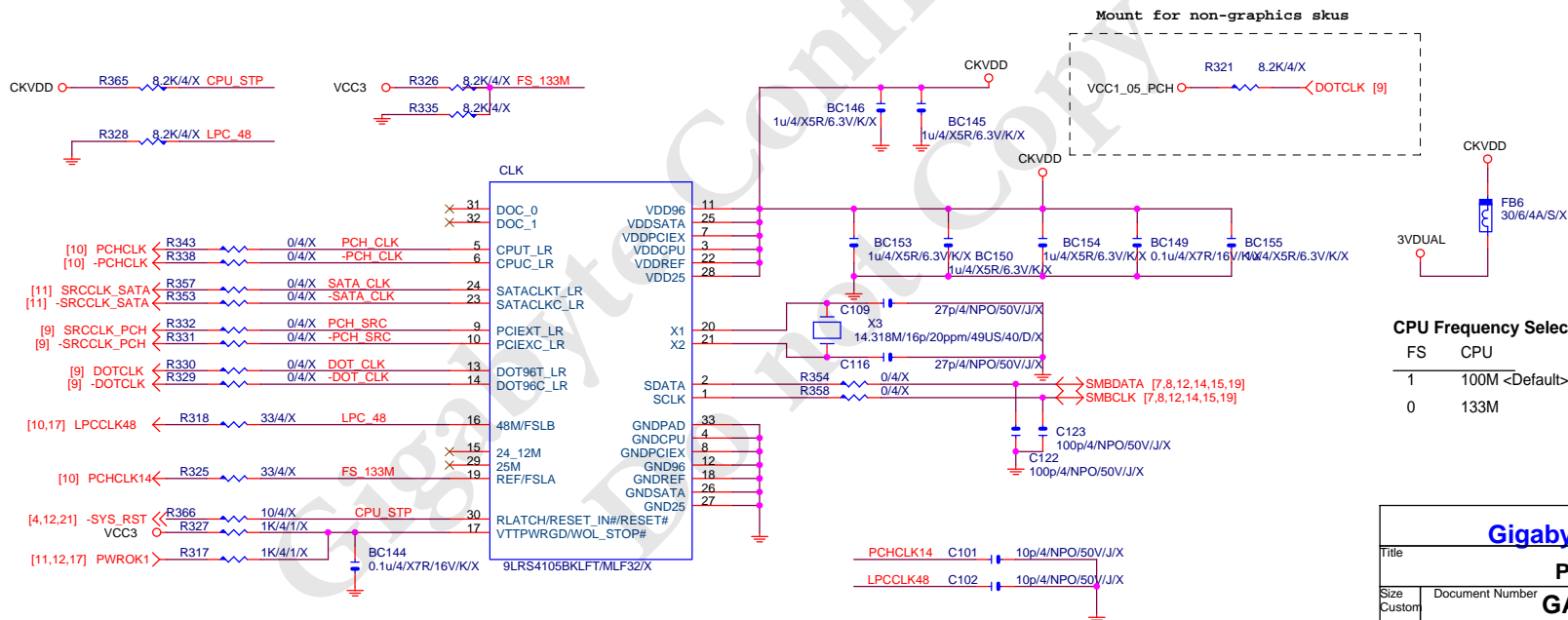






## CLK GEN

N/A



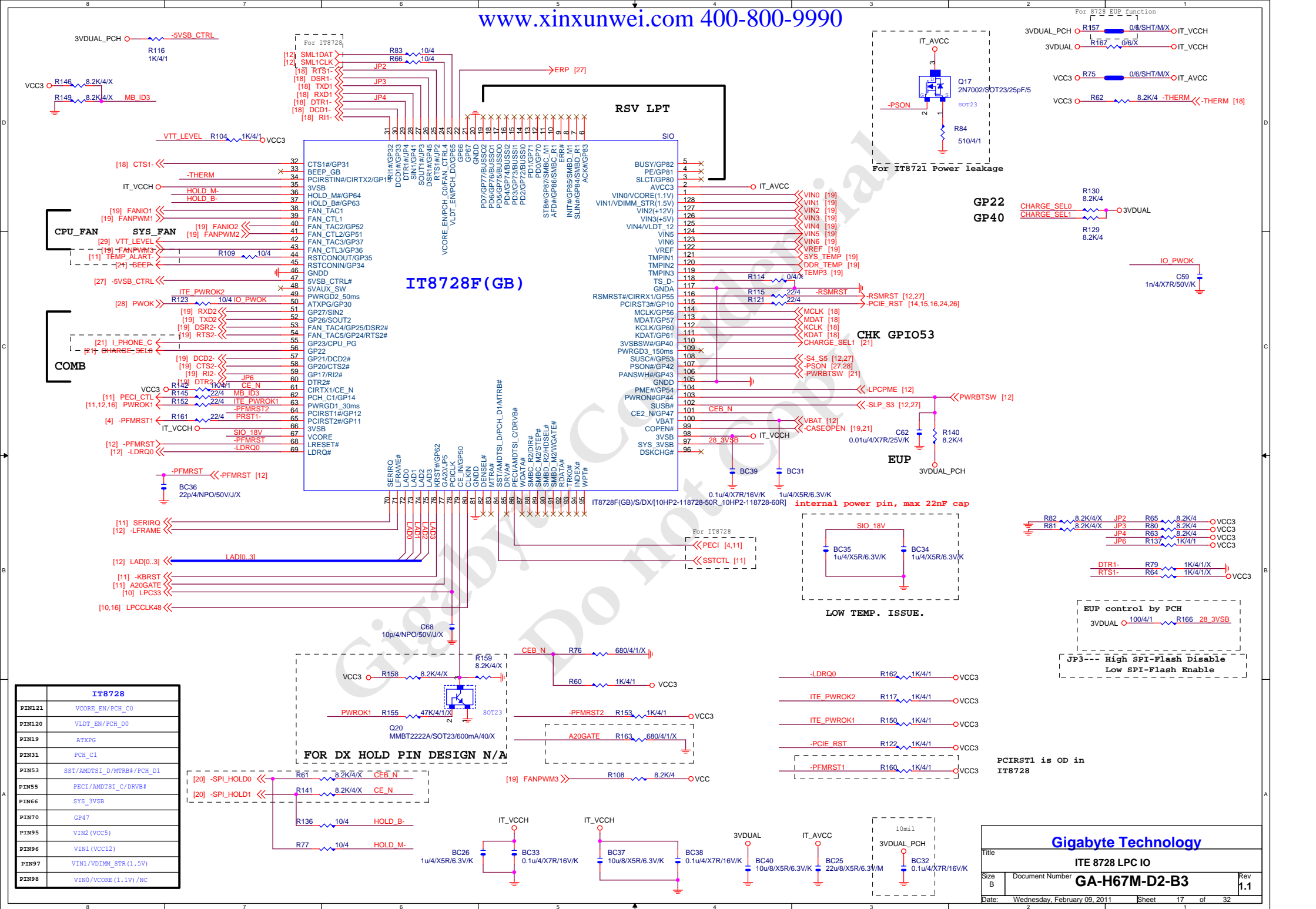
### CPU Frequency Selection

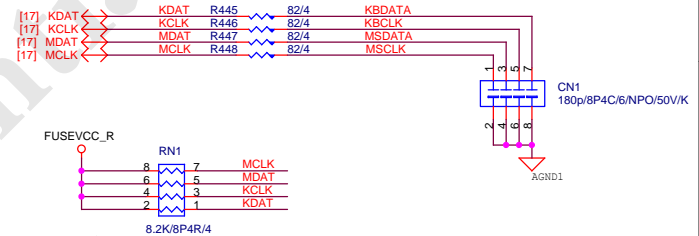
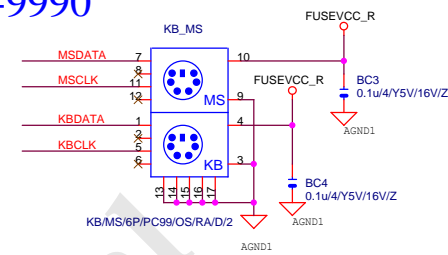
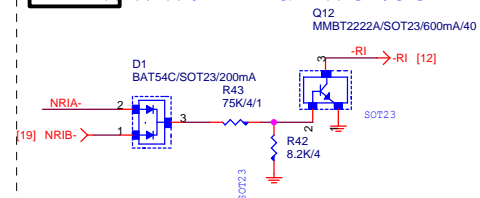
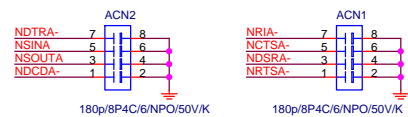
| FS | CPU            |
|----|----------------|
| 1  | 100M <Default> |
| 0  | 133M           |

## Gigabyte Technology

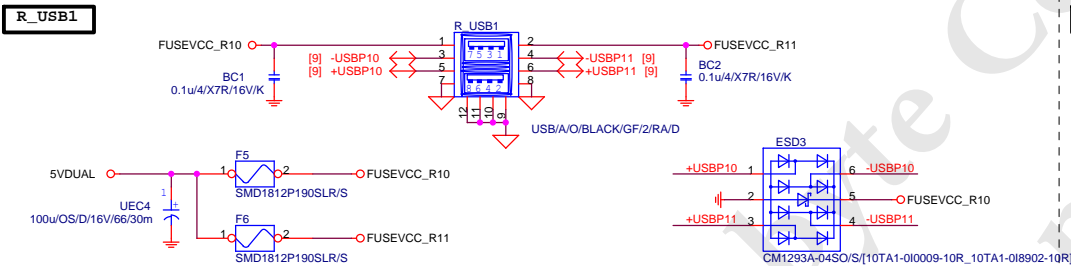
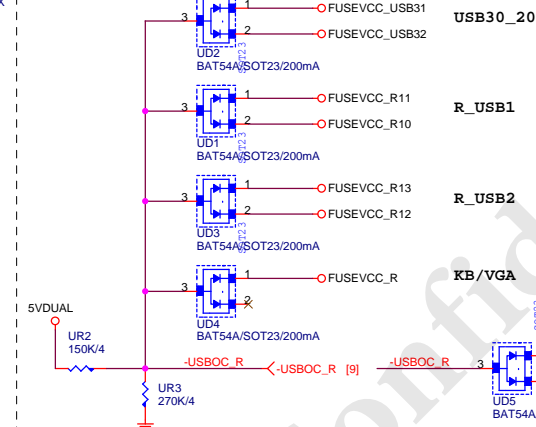
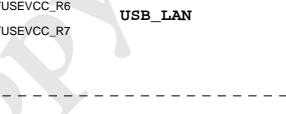
PCIEX1,X2

|             |                                      |                |
|-------------|--------------------------------------|----------------|
| Size Custom | Document Number <b>GA-H67M-D2-B3</b> | Rev <b>1.1</b> |
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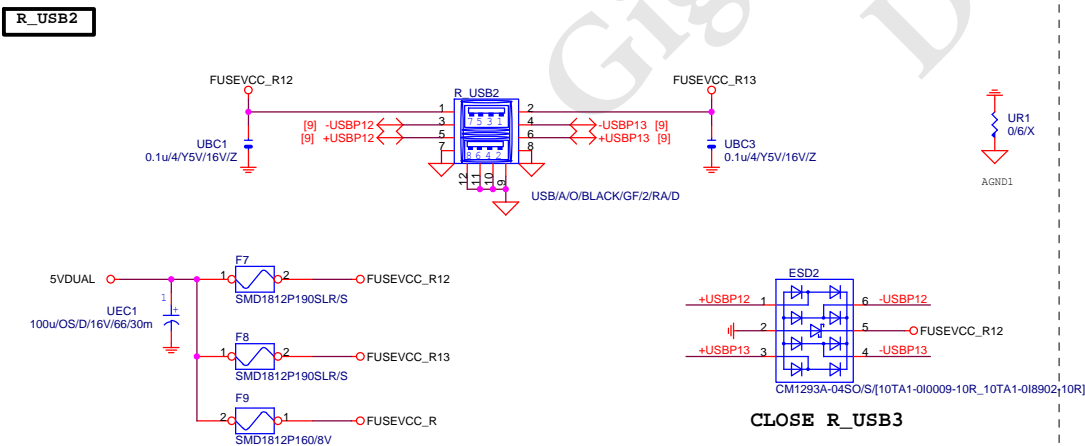
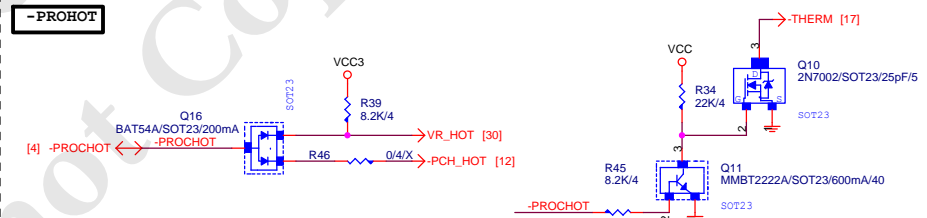




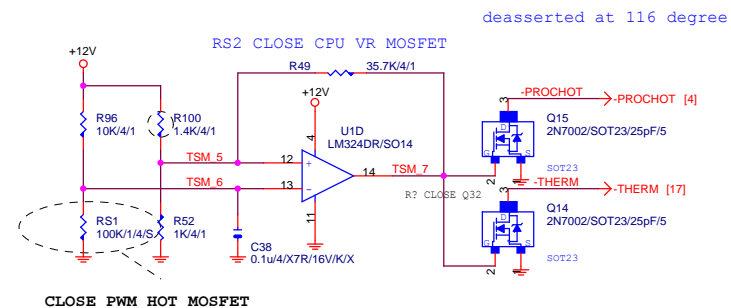
USEVCC\_R6      USB\_LAN



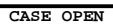
```
CLOSE R_USB2
```



CLOSE R\_USB3

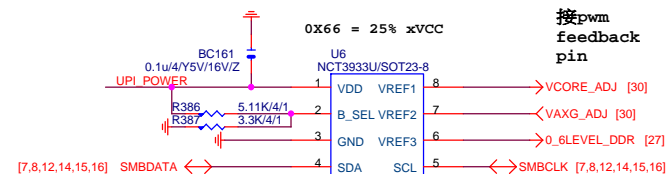
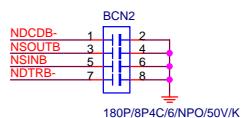


CLOSE PWM HOT MOSFET



## Case Open Circuits

## VOLTAGE-- H/W MONITOR



## Gigabyte Technology

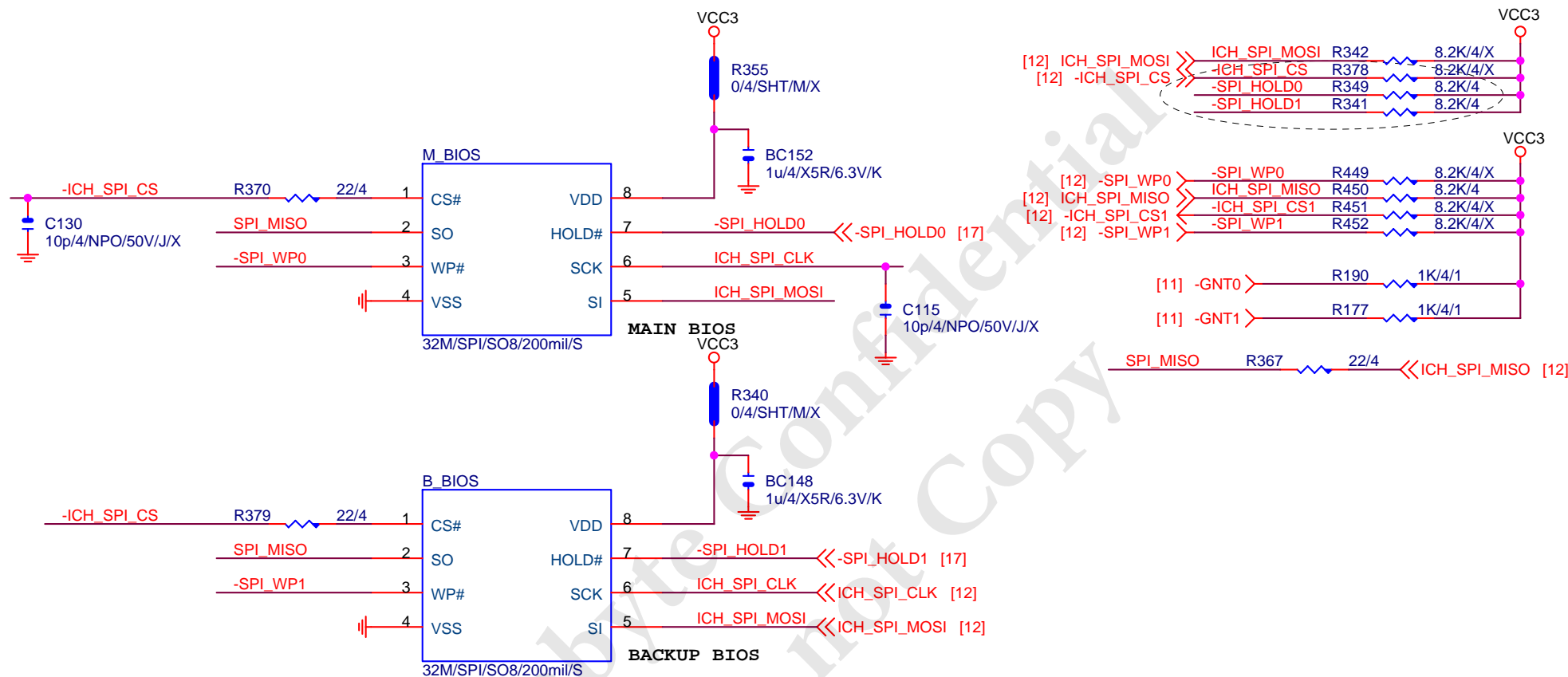
HWM,FAN CTRL,OV

ber **GA-H67M-D2-B3**

|     |
|-----|
| Rev |
| 1.1 |

# DUAL BIOS

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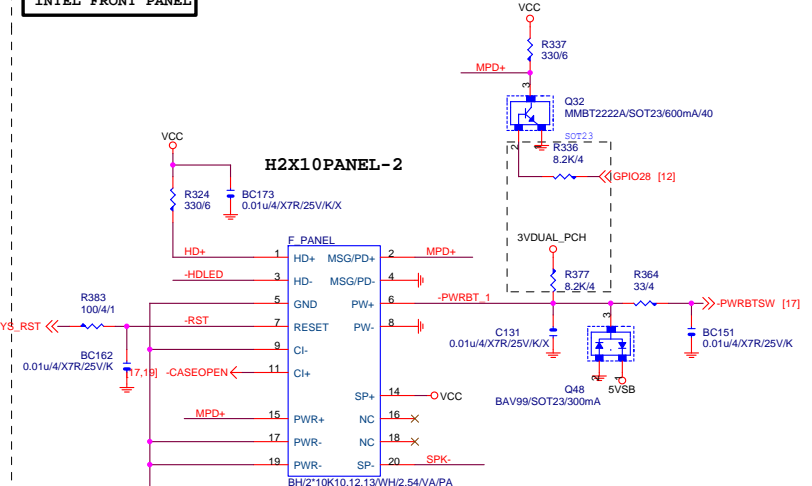
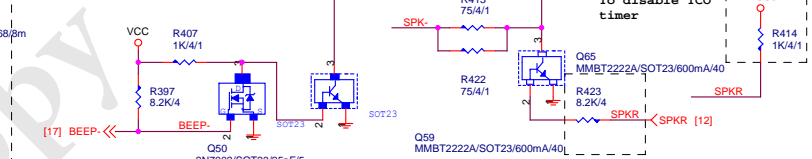
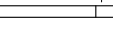
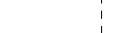
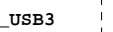
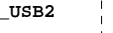
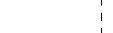
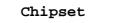
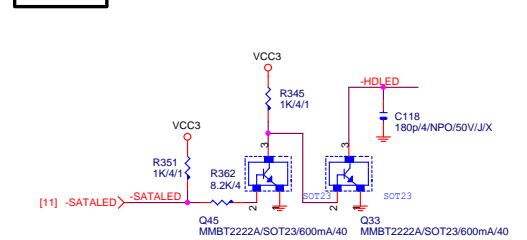


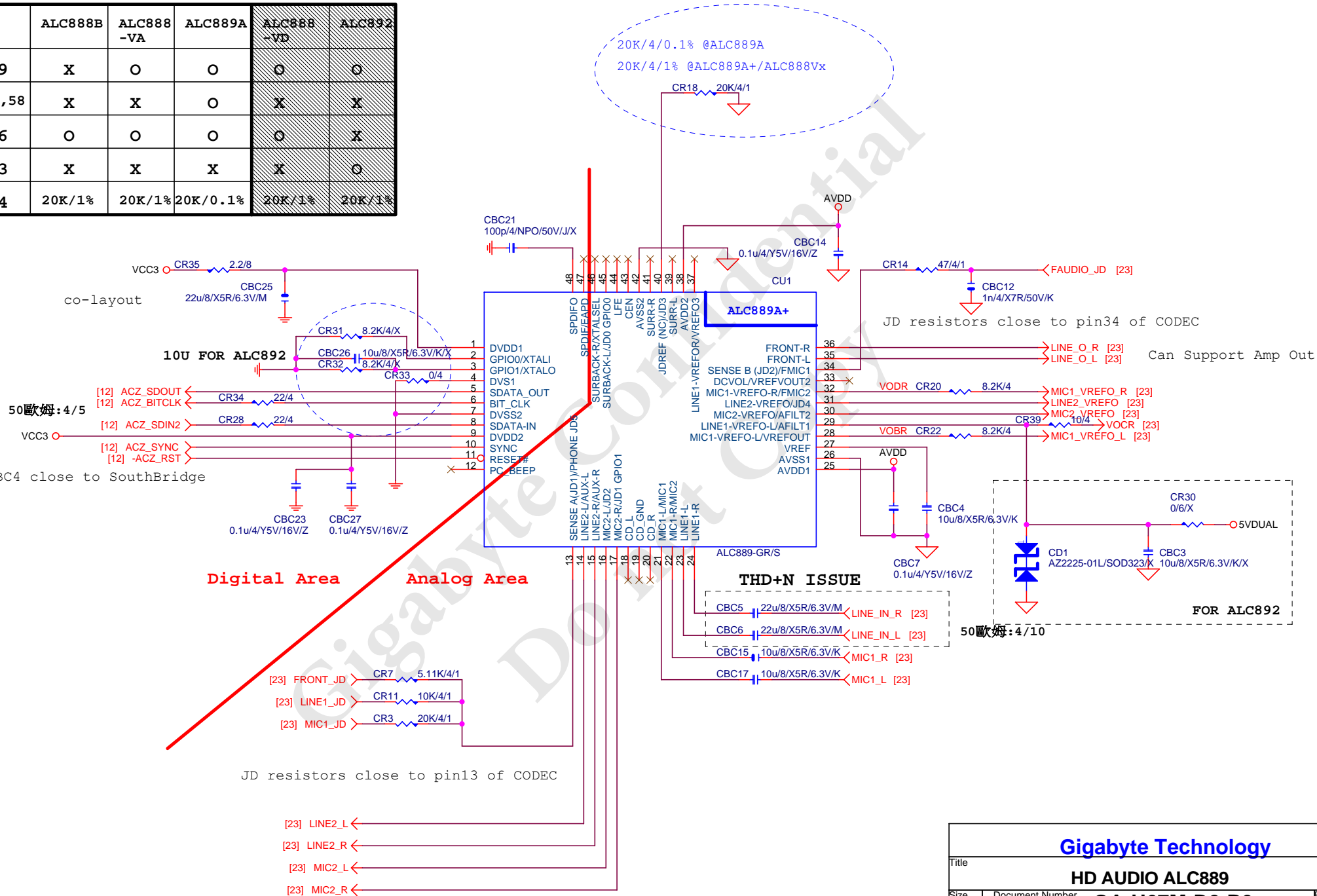
| BOOT<br>DEVICE | GNT1 | GNT0 |
|----------------|------|------|
| LPC            | 0    | 0    |
| PCI            | 0    | 1    |
| SPI            | 1    | 1    |

1 means floating  
0 means PD 1K

**Gigabyte Technology**

|           |   |                   |
|-----------|---|-------------------|
| Title     |   |                   |
| DUAL BIOS |   |                   |
| Size<br>A | Document Number<br><b>GA-H67M-D2-B3</b> | Rev<br><b>1.1</b> |
| Date:     | Wednesday, February 09, 2011            | Sheet 20 of 32    |

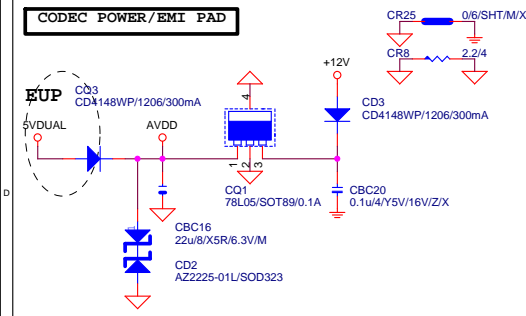




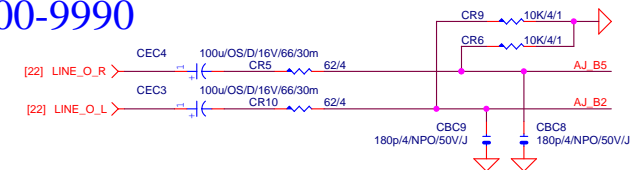
Can Support Amp Out



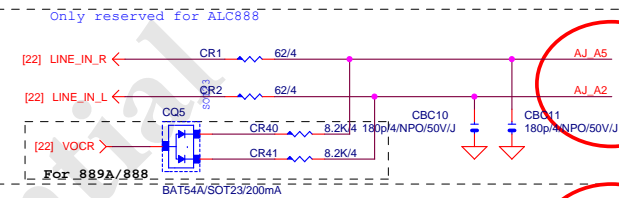
## CODEC POWER/EMI PAD



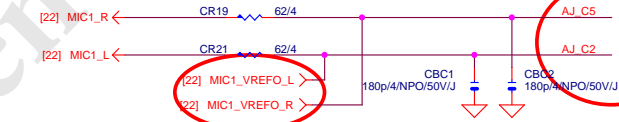
## LINE-OUT



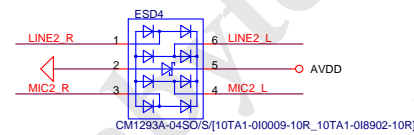
## LINE-IN

Verify MIC function  
in LINE-in

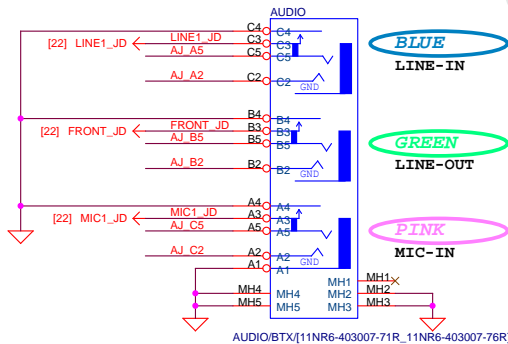
## MIC-IN



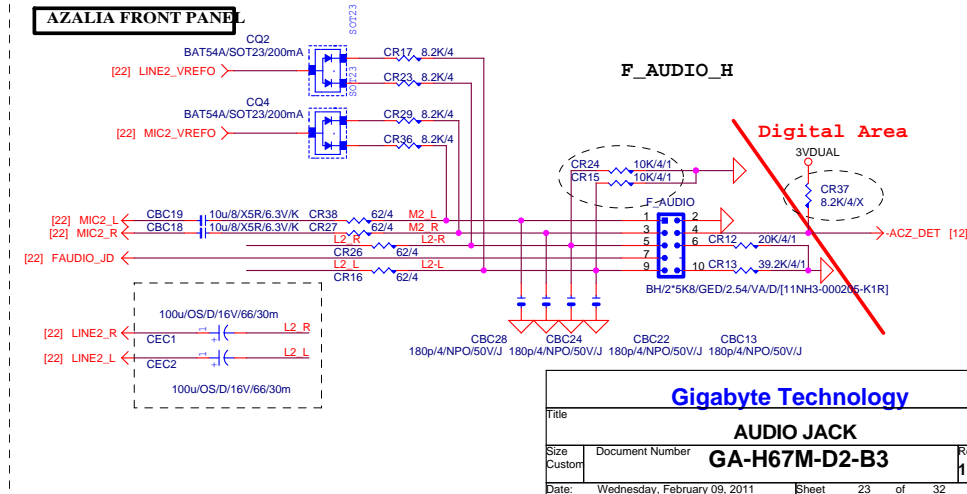
## AZALIA JACK



CM1293A-04SO/S(10TA1-010009-10R\_10TA1-018902-10R)



## AZALIA FRONT PANEL



Gigabyte Technology

AUDIO JACK

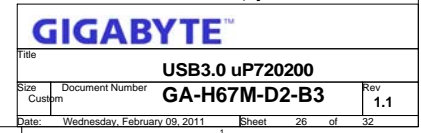
GA-H67M-D2-B3

Rev  
1.1

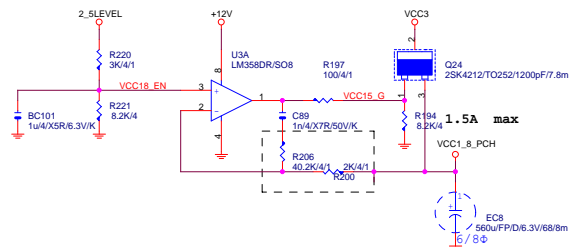
|       |        |                 |                              |       |          |
|-------|--------|-----------------|------------------------------|-------|----------|
| Title |        | Document Number | GA-H67M-D2-B3                | Rev   | 1.1      |
| Size  | Custom | Date:           | Wednesday, February 09, 2011 | Sheet | 23 of 32 |



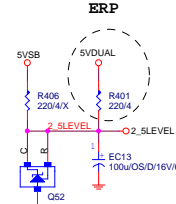




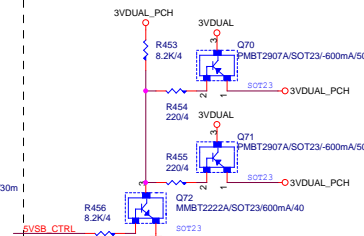
VCC1\_8\_PCH



2\_5LEVEL

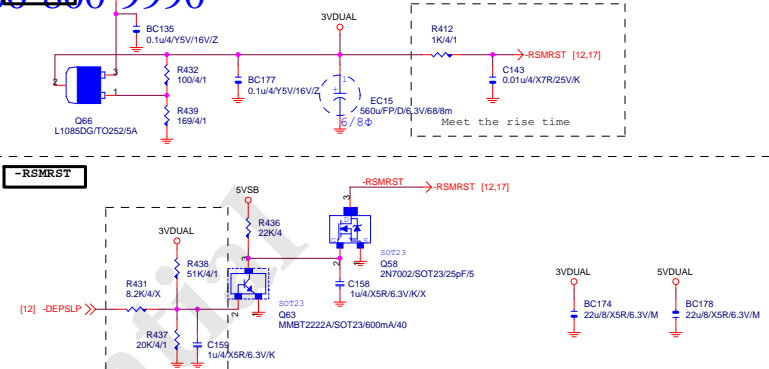


3VDUAL\_PCH

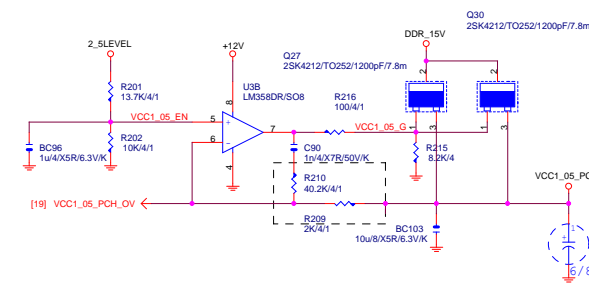


在ERP TURN ON時,先將PCH  
3VDUAL灌入3VDUAL\_PCH,使TURN ON  
-SLP\_S3功能

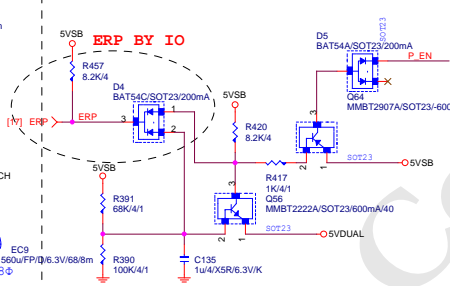
3VDUAL\_PCH



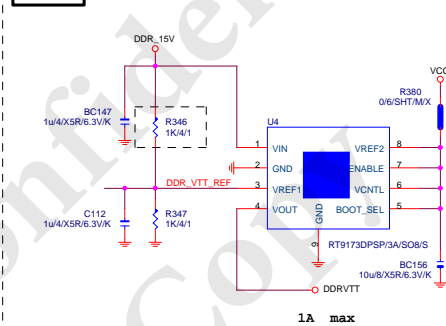
VCC1\_05\_PCH



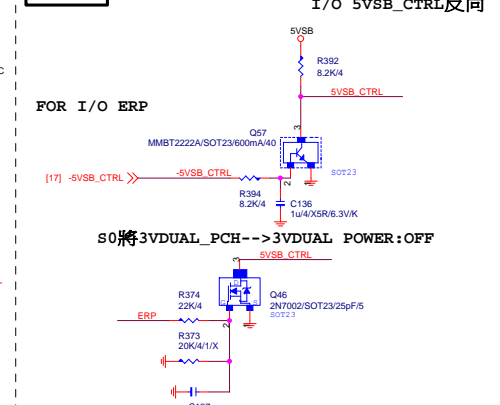
5VDUAL SHORT PROTECT



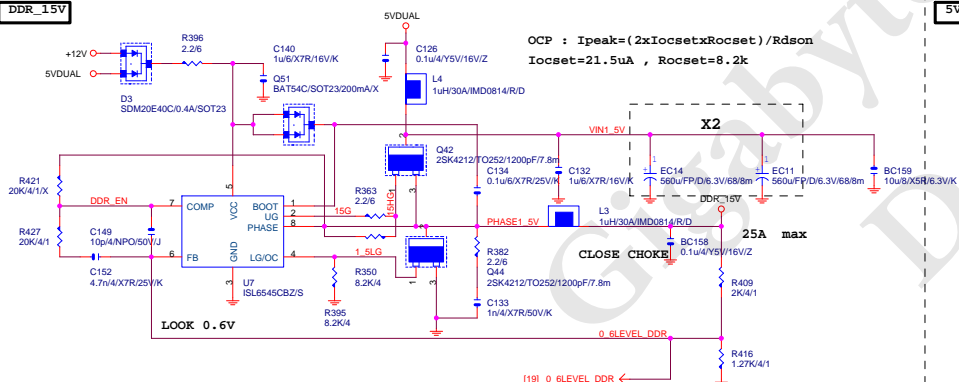
DDR\_VTT



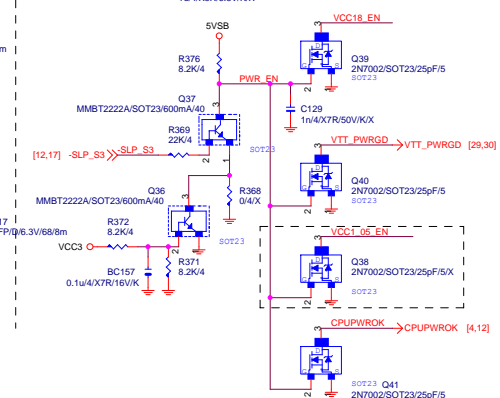
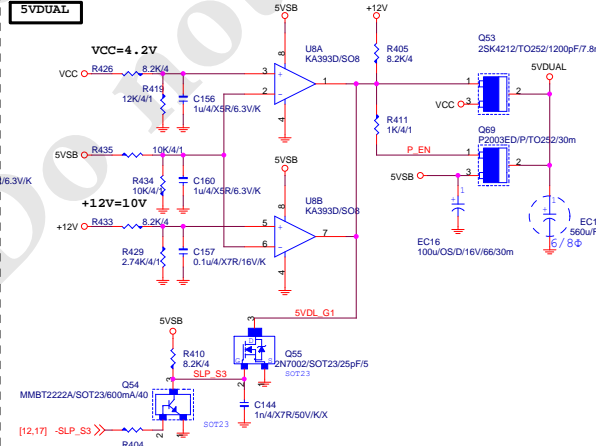
PWR\_SEQ



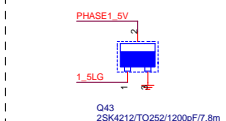
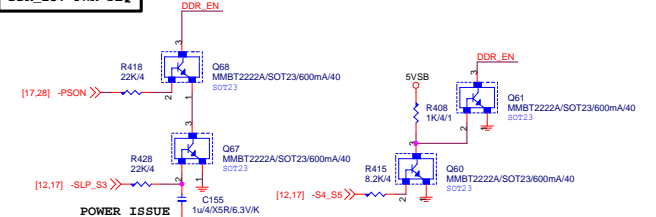
DDR\_15V



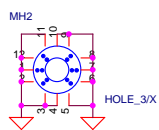
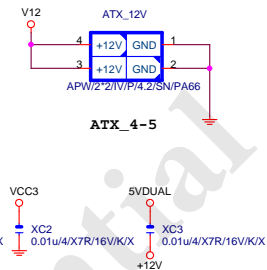
5VDUAL



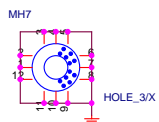
DDR\_15V PWR\_SEQ



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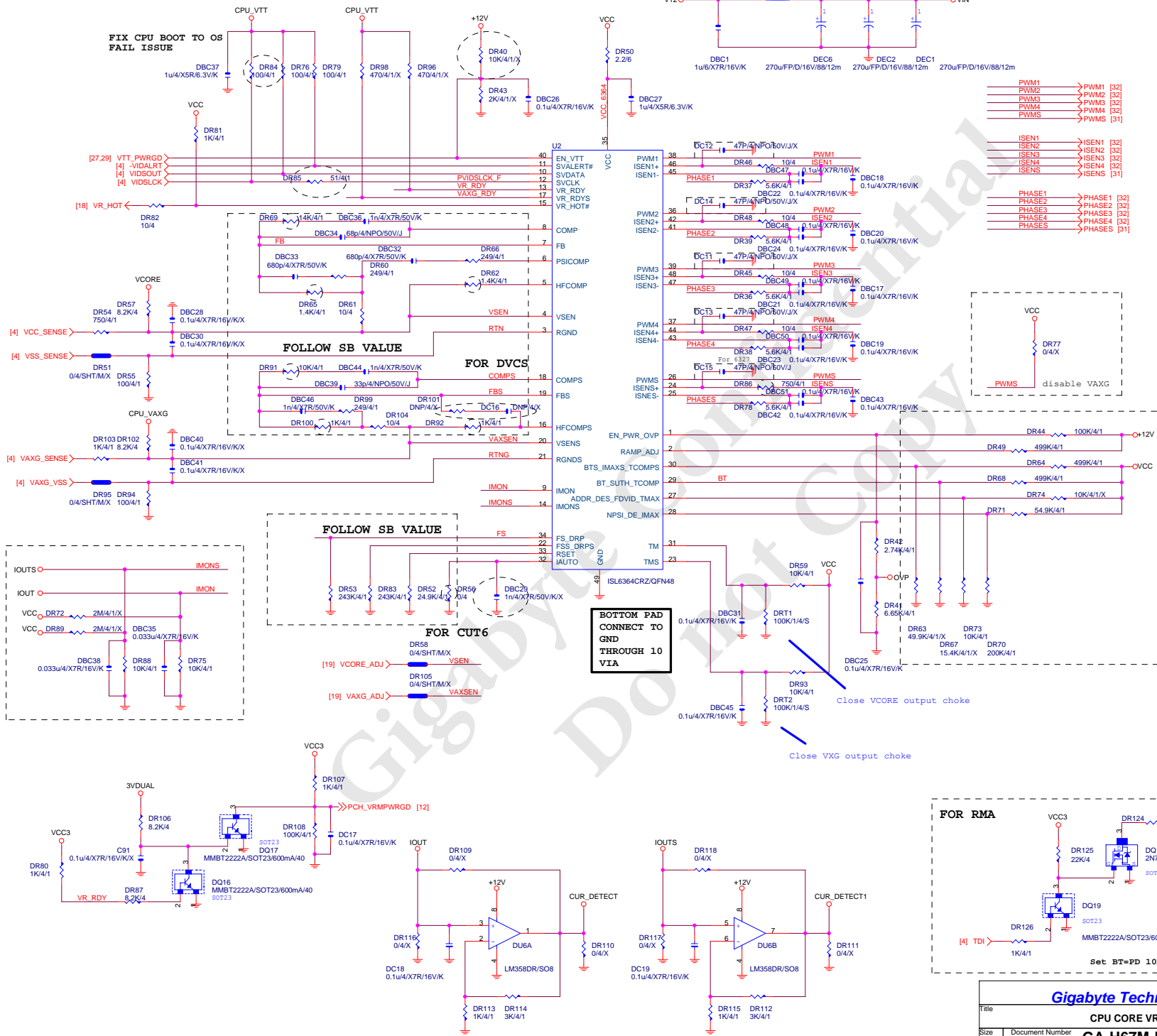
```
-S WARN-->5VDUAL1-->-S ACK(PCH)-->-DEPSLP/-RSMRST-->5VDUAL-->3VDUAL
```

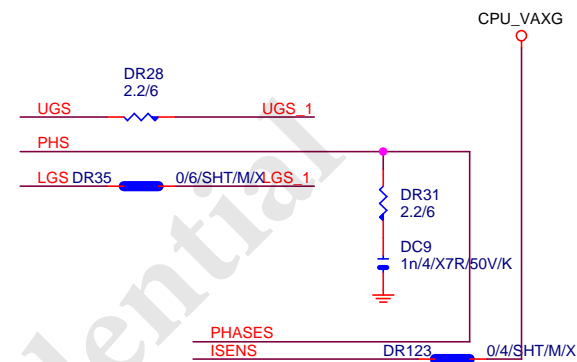


HOLE\_4-RH-5MM-1

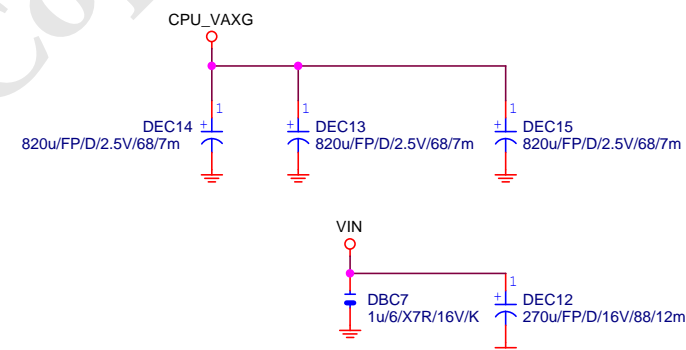
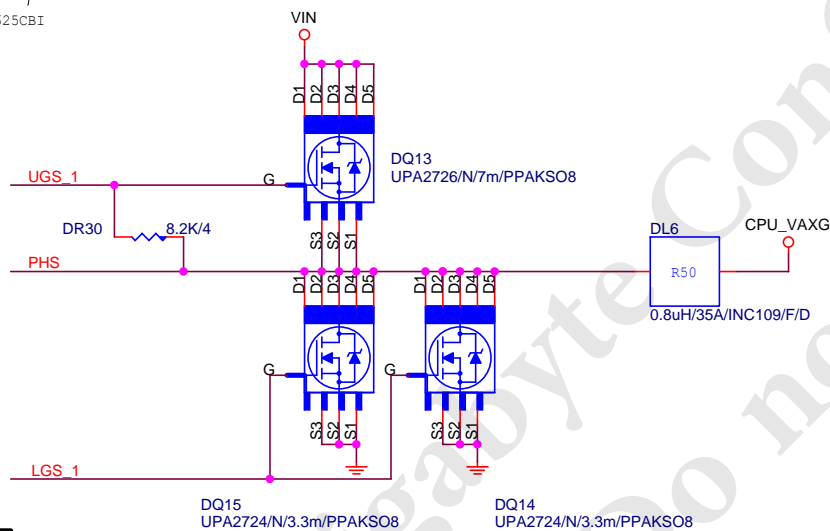








PWMS → PWMS [30]  
ISENS → ISENS [30]  
PHASES → PHASES [30]



|              |     |
|--------------|-----|
| MOS HEATSINK | N/A |
|--------------|-----|

