

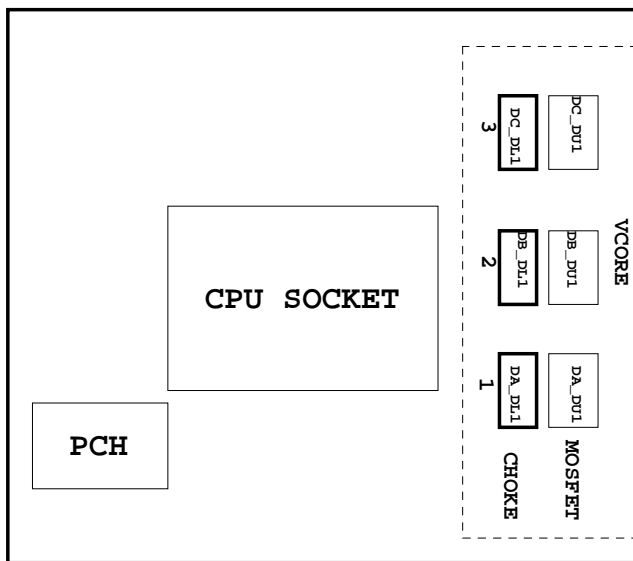
Model Name: GA-H97-DS3H

SHEET TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1150-A
05	CPU_LGA1150-B
06	CPU_LGA1150-C
07	DDR III CHANNEL A
08	DDR III CHANNEL B
09	PCH_FDI,DMI,USB,PCIE
10	PCH_RGB,CLK BUFFER
11	PCH_HOST,SATA,PCI
12	PCH_GPIO,CTRL,AUDIO
13	PCH_PWR,GND
14	PCI EXPRESS*16 SLOT
15	PCIEX1*2 , PCIEX4 SLOT
16	ITE8892 PCI BRIDGE
17	PCI SLOT 1&2
18	I/O ITE8620
19	COM, -PROHOT, R_USB
20	Dual BIOS / LPT
21	ALC887-VD2 CODEC
22	REAR AUDIO JACK
23	VCORE_ ISL95820_1
24	VCORE_ ISL95820_2
25	DDR15V / M3 POWER
26	NCP3933 OVER VOLTAGE
27	DISCRETE POWER

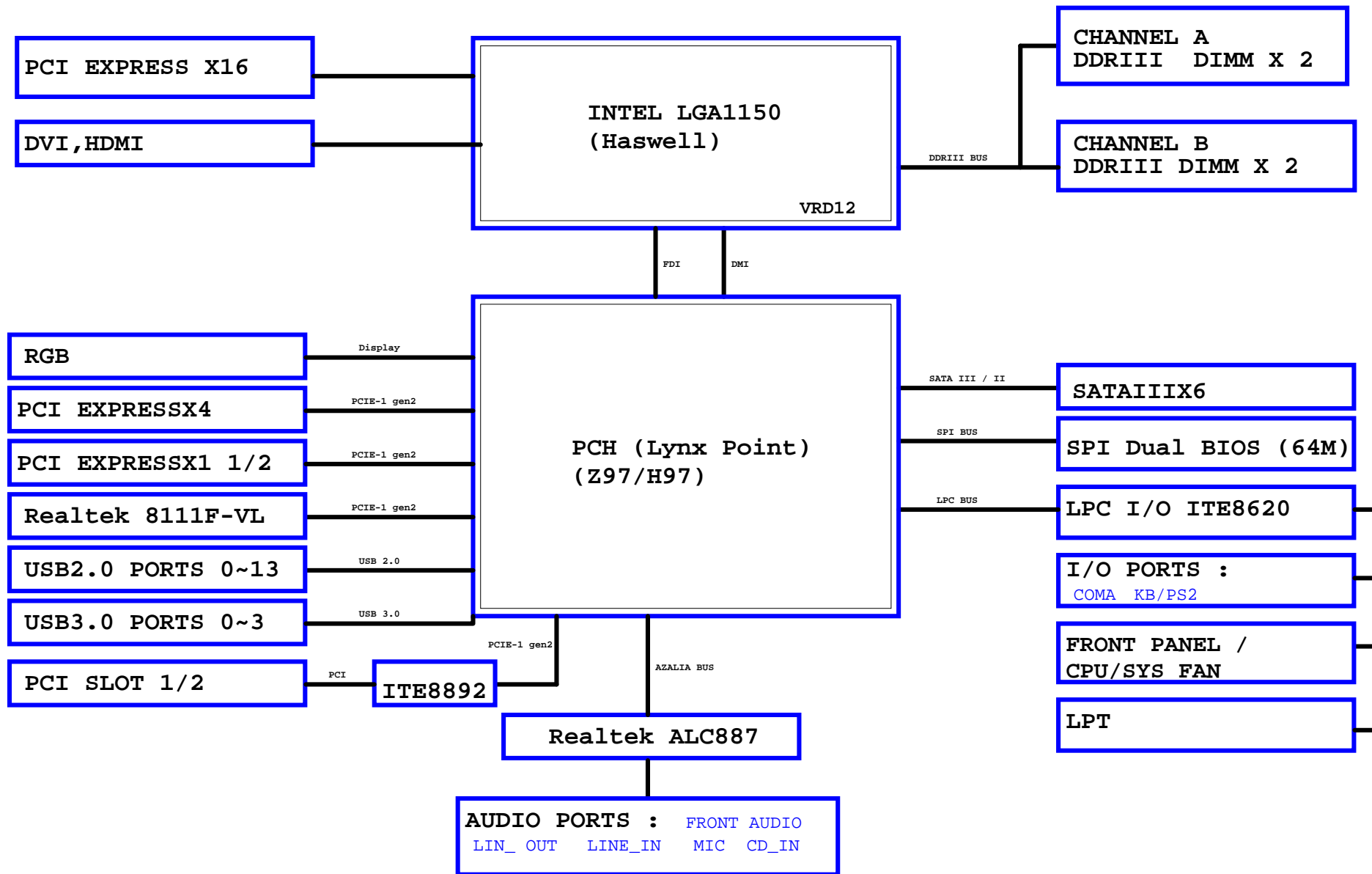
SHEET TITLE

28	F_PANEL , F_USB2.0/3.0
29	ATX POWER, CLOCK GEN
30	HWM , KB/MS , FAN CTRL
31	Realtek 8111F-VL
32	DVI
33	HDMI
34	TABLE LIST
35	
36	
37	
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40	

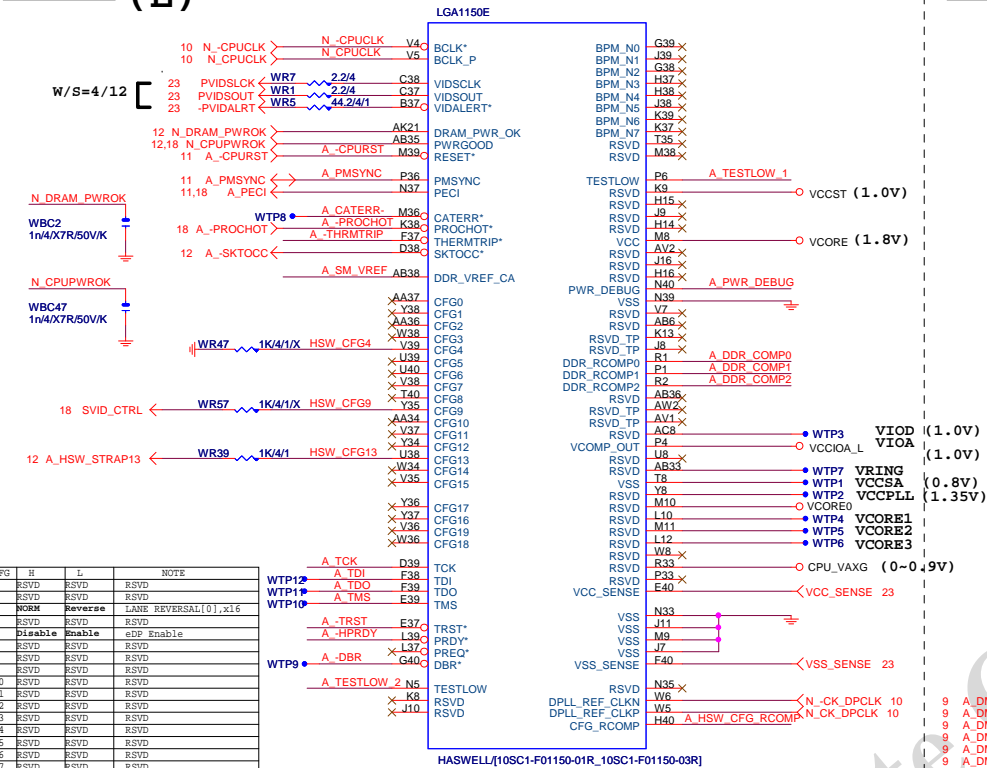


BLOCK DIAGRAM

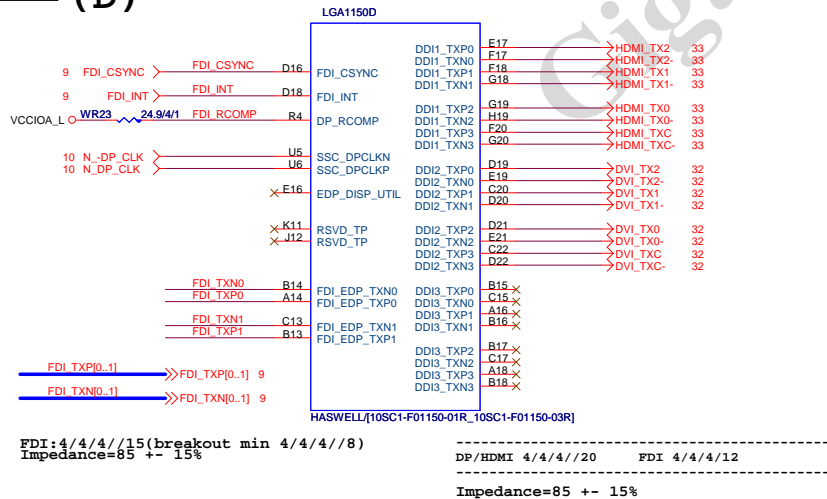
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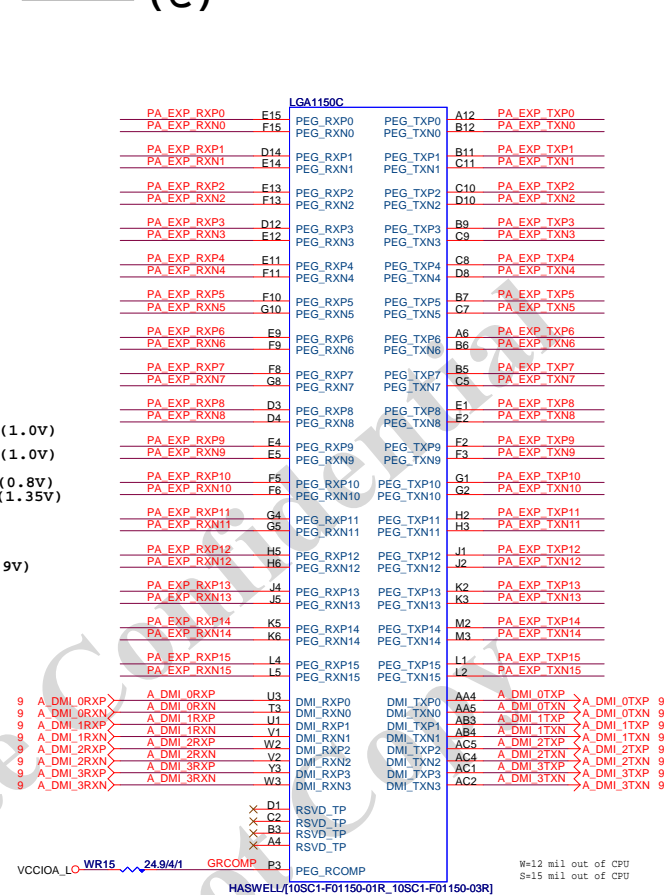
LGA1150 (E)



LGA1150 (D)

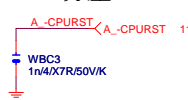


LGA1155 (C)



-CPURST

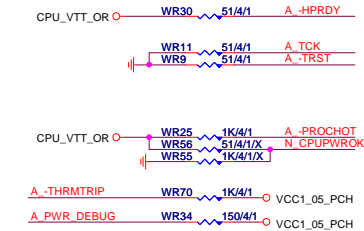
1.1V分壓



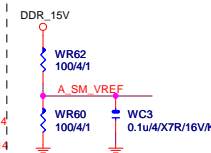
CPU SVID



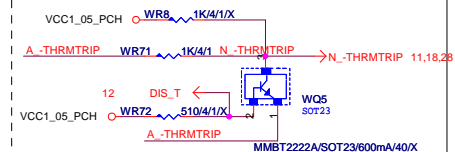
CPU PU/PD



SM REF



THRMTRIP DISABLE FOR Z87 OVERCLOCK



LGA1150

(A)

LGA1150

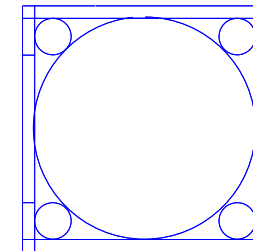
(B)

LGA1150

(CR)

LGA1150A

LGA1150B

LGA1150
ILM_BP_CR/115X/NORMAL NI

MAAA0	AU13	DDR0_MA0	DDR0_D00	AD38	MDA0
MAAA1	AV16	DDR0_MA1	DDR0_D01	AD39	MDA1
MAAA2	AU16	DDR0_MA2	DDR0_D02	AF38	MDA2
MAAA3	AW17	DDR0_MA3	DDR0_D03	AF39	MDA3
MAAA4	AU17	DDR0_MA4	DDR0_D04	AD40	MDA4
MAAA5	AW18	DDR0_MA5	DDR0_D05	AE37	MDA6
MAAA6	AV17	DDR0_MA6	DDR0_D06	AF40	MDA7
MAAA7	AT18	DDR0_MA7	DDR0_D07	AH40	MDA9
MAAA8	AU18	DDR0_MA8	DDR0_D08	AH39	MDA13
MAAA9	AT19	DDR0_MA9	DDR0_D09	AK38	MDA10
MAAA10	AW11	DDR0_MA10	DDR0_D10	AK39	MDA11
MAAA11	AV19	DDR0_MA11	DDR0_D11	AH37	MDA12
MAAA12	AU19	DDR0_MA12	DDR0_D12	AH38	MDA14
MAAA13	AT20	DDR0_MA13	DDR0_D13	AK40	MDA15
MAAA14	AW21	DDR0_MA14	DDR0_D14	AM40	MDA17
MAAA15	AU21	DDR0_MA15	DDR0_D15	AP38	MDA21
MODT_A0	AW10	DDR0_ODT0	DDR0_D16	AP39	MDA19
MODT_A1	AY8	DDR0_ODT1	DDR0_D17	AM37	MDA20
MODT_A2	AW9	DDR0_ODT2	DDR0_D18	AM38	MDA16
MODT_A3	AU8	DDR0_ODT3	DDR0_D19	AP37	MDA22
			DDR0_D20	AP40	MDA23
			DDR0_D21	AV37	MDA25
			DDR0_D22	AW37	MDA29
			DDR0_D23	AU35	MDA28
			DDR0_D24	AV35	MDA27
			DDR0_D25	AT37	MDA28
			DDR0_D26	AU37	MDA24
			DDR0_D27	AT35	MDA30
			DDR0_D28	AW35	MDA33
			DDR0_D29	AY6	MDA37
			DDR0_D30	AU6	MDA34
			DDR0_D31	AV4	MDA36
			DDR0_D32	AW4	MDA32
			DDR0_D33	AW6	MDA38
			DDR0_D34	AW4	MDA39
			DDR0_D35	AR1	MDA41
			DDR0_D36	AR4	MDA45
			DDR0_D37	AN3	MDA42
			DDR0_D38	AN4	MDA43
			DDR0_D39	AR2	MDA44
			DDR0_D40	AR3	MDA46
			DDR0_D41	AN2	MDA47
			DDR0_D42	AN1	MDA49
			DDR0_D43	AL1	MDA53
			DDR0_D44	AL4	MDA50
			DDR0_D45	AJ4	MDA51
			DDR0_D46	AL2	MDA52
			DDR0_D47	AJ2	MDA48
			DDR0_D48	AJ2	MDA54
			DDR0_D49	AJ1	MDA55
			DDR0_D50	AG1	MDA57
			DDR0_D51	AG4	MDA61
			DDR0_D52	AE3	MDA58
			DDR0_D53	AE4	MDA59
			DDR0_D54	AG2	MDA60
			DDR0_D55	AG3	MDA56
			DDR0_D56	AE2	MDA62
			DDR0_D57	AE1	MDA63
			DDR0_D58	AE39	DQSA0
			DDR0_D59	AJ39	DQSA1
			DDR0_D60	AN39	DQSA2
			DDR0_D61	AV36	DQSA3
			DDR0_D62	AV5	DQSA4
			DDR0_D63	AP3	DQSA5
			DDR0_D64	AK3	DQSA6
			DDR0_D65	AF3	DQSA7
			DDR0_D66	AV32	DQSA0
			DDR0_D67	AE38	DQSA1
			DDR0_D68	AN38	DQSA2
			DDR0_D69	AJ38	DQSA3
			DDR0_D70	AW5	DQSA4
			DDR0_D71	AP2	DQSA5
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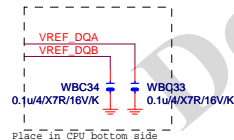
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MAAB1	AK23	DDR1_MA1	AE35	MDB1
MAAB2	AM22	DDR1_MA2	AG35	MDB2
MAAB3	AM23	DDR1_MA3	AH35	MDB3
MAAB4	AP23	DDR1_MA4	AD34	MDB4
MAAB5	AL23	DDR1_MA5	AD35	MDB5
MAAB6	AY24	DDR1_MA6	AG34	MDB6
MAAB7	AV25	DDR1_MA7	AH34	MDB7
MAAB8	AU26	DDR1_MA8	AL34	MDB8
MAAB9	AV25	DDR1_MA9	AL35	MDB9
MAAB10	AP18	DDR1_MA10	AK31	MDB10
MAAB11	AY25	DDR1_MA11	AL31	MDB11
MAAB12	AV26	DDR1_MA12	AK34	MDB12
MAAB13	AR15	DDR1_MA13	AK35	MDB13
MAAB14	AV27	DDR1_MA14	AK32	MDB14
MAAB15	AY28	DDR1_MA15	AL32	MDB15
		DDR1_ODT0	AP34	MDB17
		DDR1_ODT1	AN31	MDB19
		DDR1_ODT2	AP31	MDB23
		DDR1_ODT3	AN35	MDB20
			AP35	MDB16
			AN32	MDB18
			AP32	MDB22
			AM29	MDB25
			AM28	MDB28
			AR29	MDB27
			AR28	MDB30
			AL23	MDB24
			AL28	MDB29
			AP29	MDB26
			AP28	MDB31
			AR12	MDB32
			AP12	MDB33
			AL13	MDB34
			AL12	MDB35
			AR13	MDB36
			AP13	MDB37
			AM13	MDB38
			AM12	MDB39
			AR9	MDB45
			AP9	MDB41
			AR6	MDB47
			AP6	MDB43
			AR10	MDB44
			AP10	MDB40
			AR7	MDB46
			AP7	MDB42
			AM9	MDB52
			AL9	MDB53
			AL6	MDB50
			AL7	MDB55
			AM10	MDB48
			AL10	MDB49
			AM6	MDB54
			AM7	MDB51
			AH6	MDB61
			AH7	MDB60
			AE6	MDB59
			AE7	MDB63
			AJ6	MDB56
			AJ7	MDB57
			MDB62	MDB58
			AF7	MDB62
			AF35	DQSB0
			AL33	DQSB1
			AN28	DQSB2
			AN12	DQSB3
			AP8	DQSB5
			AL8	DQSB6
			AG7	DQSB7
			AN25	DQSB0
			AK33	DQSB1
			AN29	DQSB2
			AN13	DQSB3
			AR8	DQSB5
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			AG6	DQSB7
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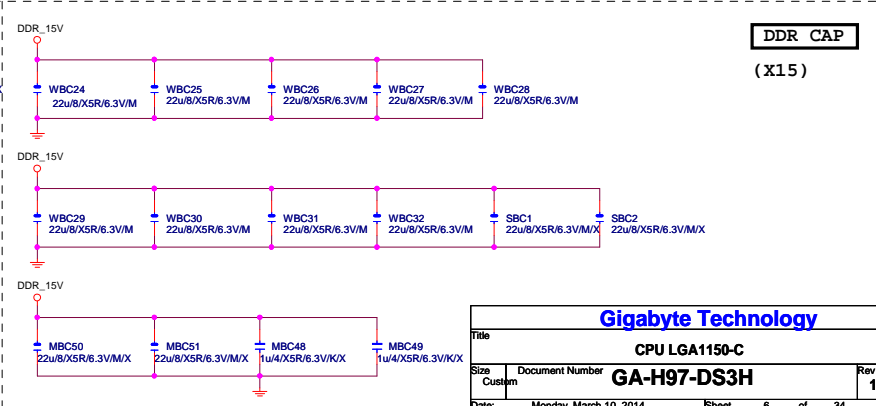
DDR BUS

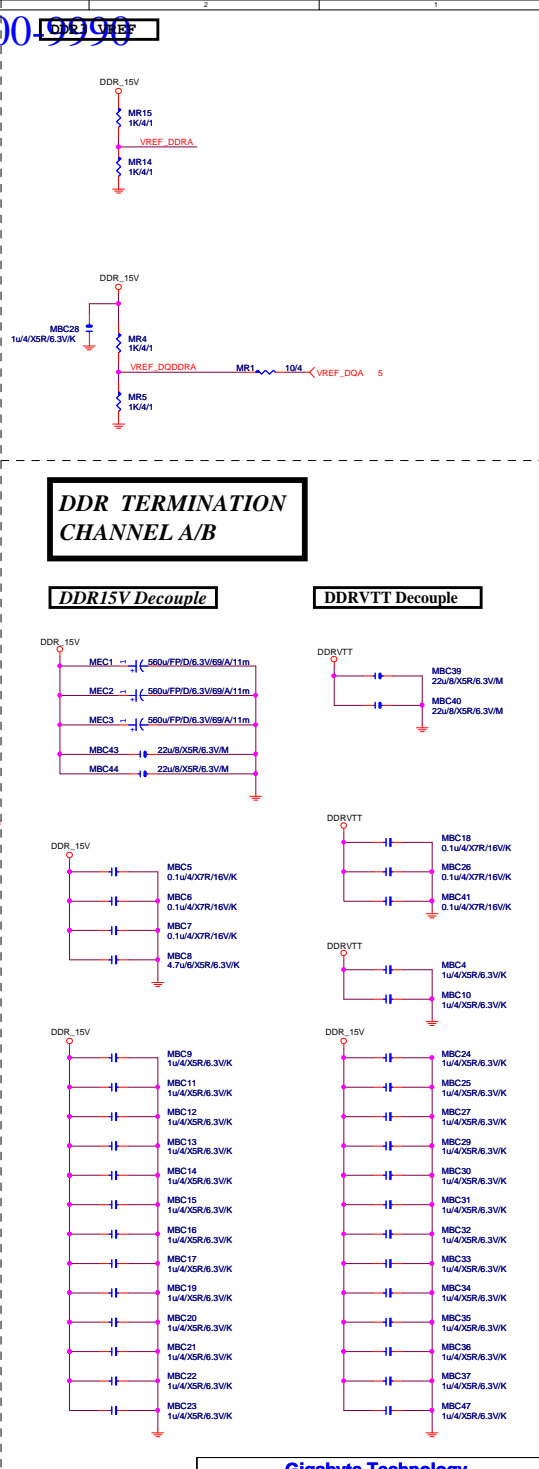
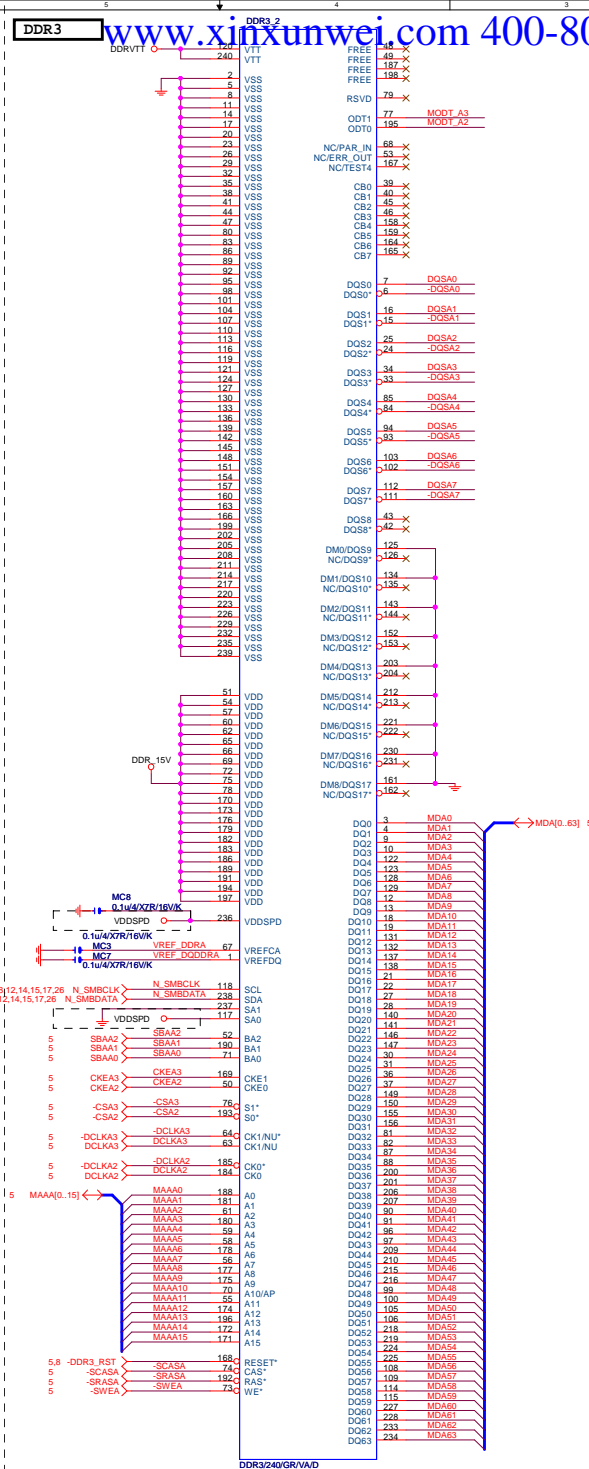
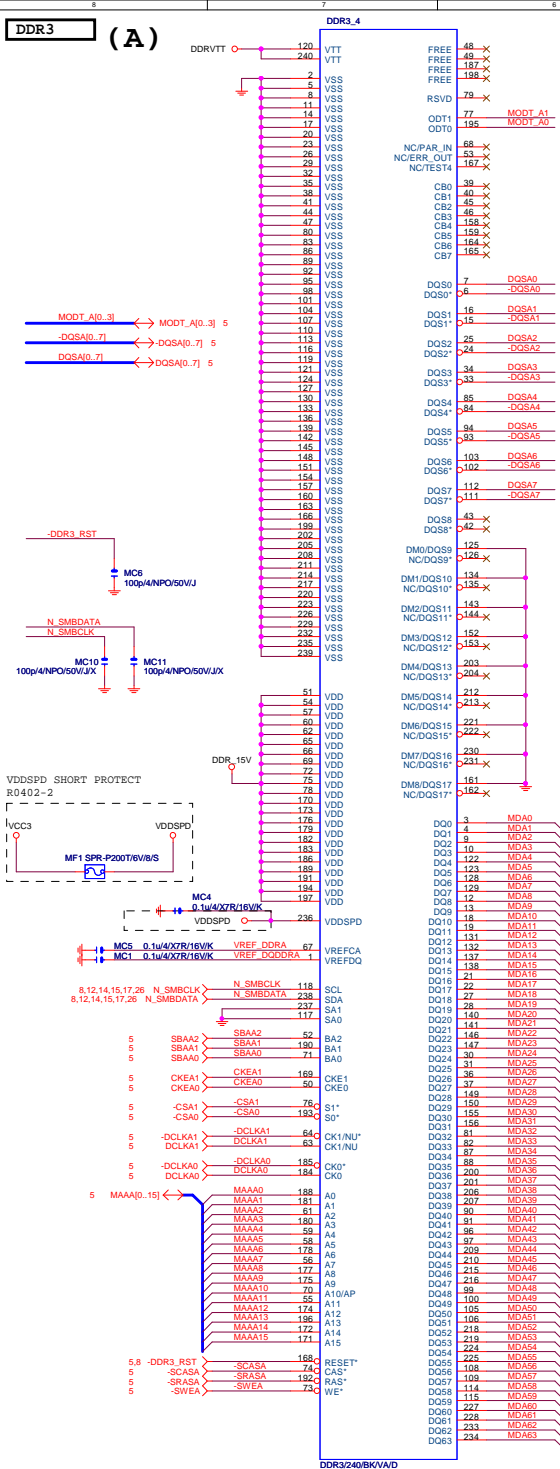
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8	MODT_B[0..3]	MODT_B[0..3]
7	MDA[0..63]	MDA[0..63]
8	MDB[0..63]	MDB[0..63]
7	DQSA[0..7]	DQSA[0..7]
7	-DQSA[0..7]	-DQSA[0..7]
7	MAAA[0..15]	MAAA[0..15]
8	MAAB[0..15]	MAAB[0..15]
8	DQSB[0..7]	DQSB[0..7]
8	-DQSB[0..7]	-DQSB[0..7]



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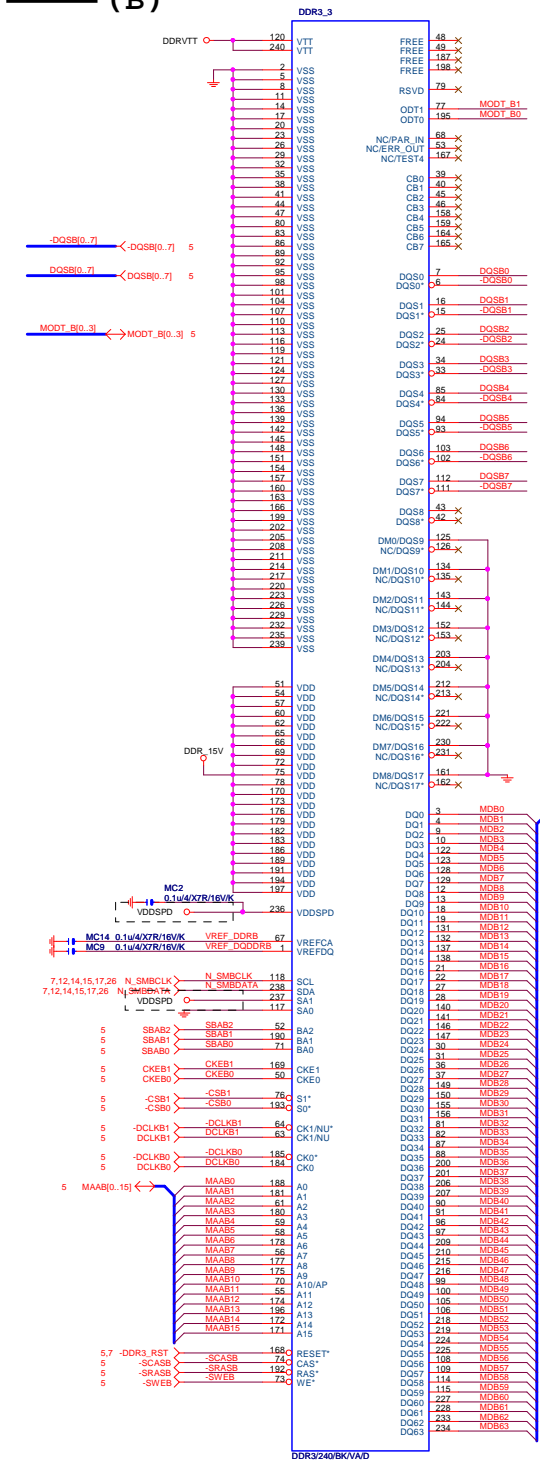
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Size				GA-H97-DS3H	
Date				Monday, March 10, 2014	
Sheet				5 of 34	





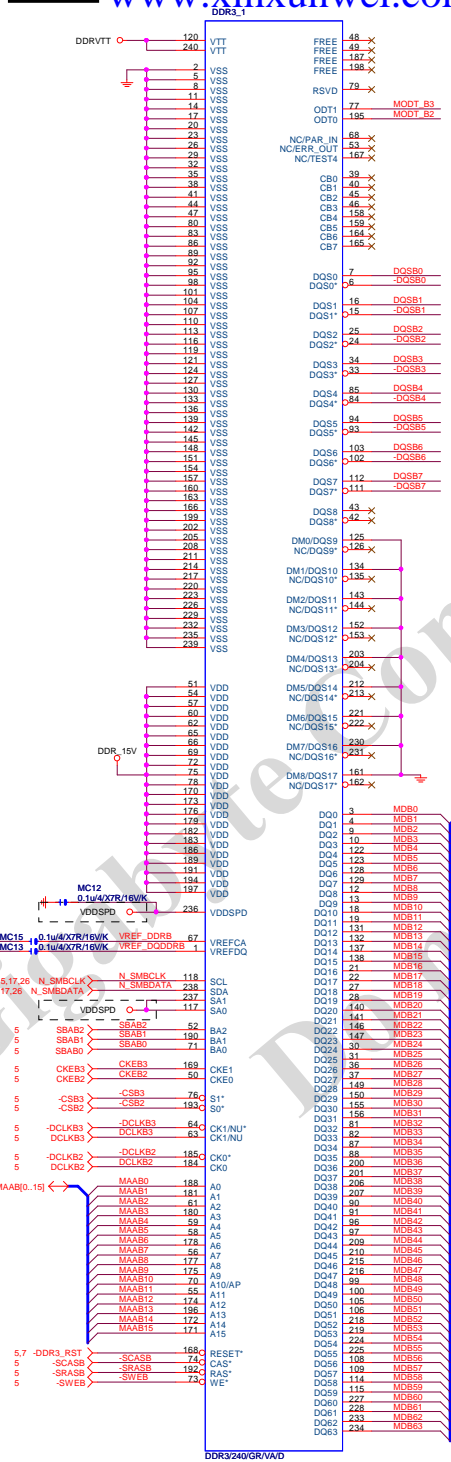
DDR3

(B)

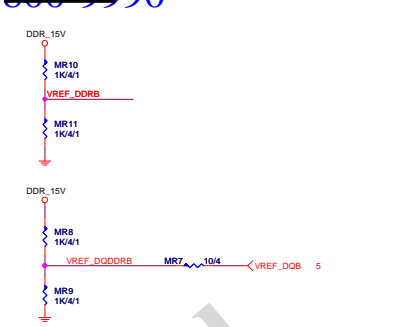


DDR3

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DDR3 VREF



DDR3 1066,1333,1600MHZ BANDWIDTH

DDR3 1066MHZ
DDR3 clock=533MHZ
DDR3 single channel bandwidth=533x2x8Byte=8.5GB/s
DDR3 dual channel bandwidth=533x2x2x8Byte=17GB/s

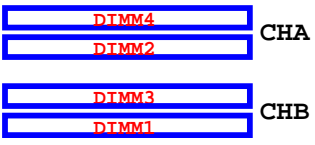
DDR3 1333MHZ
DDR3 clock=667MHZ
DDR3 single channel bandwidth=10.6GB/s
DDR3 dual channel bandwidth=21GB/s

DDR3 1600MHZ
DDR3 clock=800MHZ
DDR3 single channel bandwidth=12.8GB/s
DDR3 dual channel bandwidth=25.6GB/s

COUPON

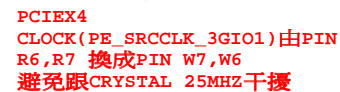
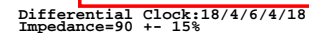
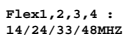


CPU

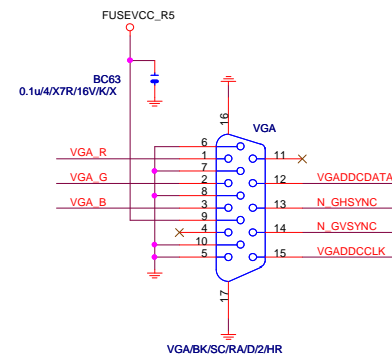
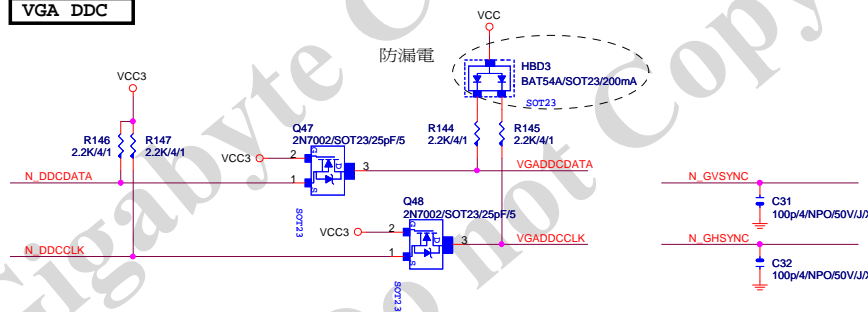
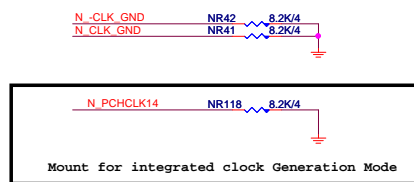


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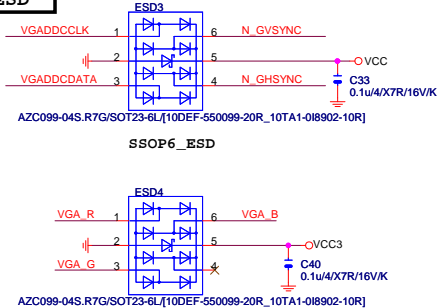
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Size			Document Number		
Custom			GA-H97-DS3H	Date:	Sheet 8 of 34



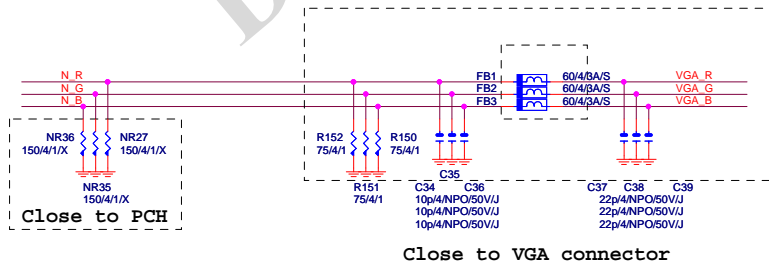
VGA CONNECTOR



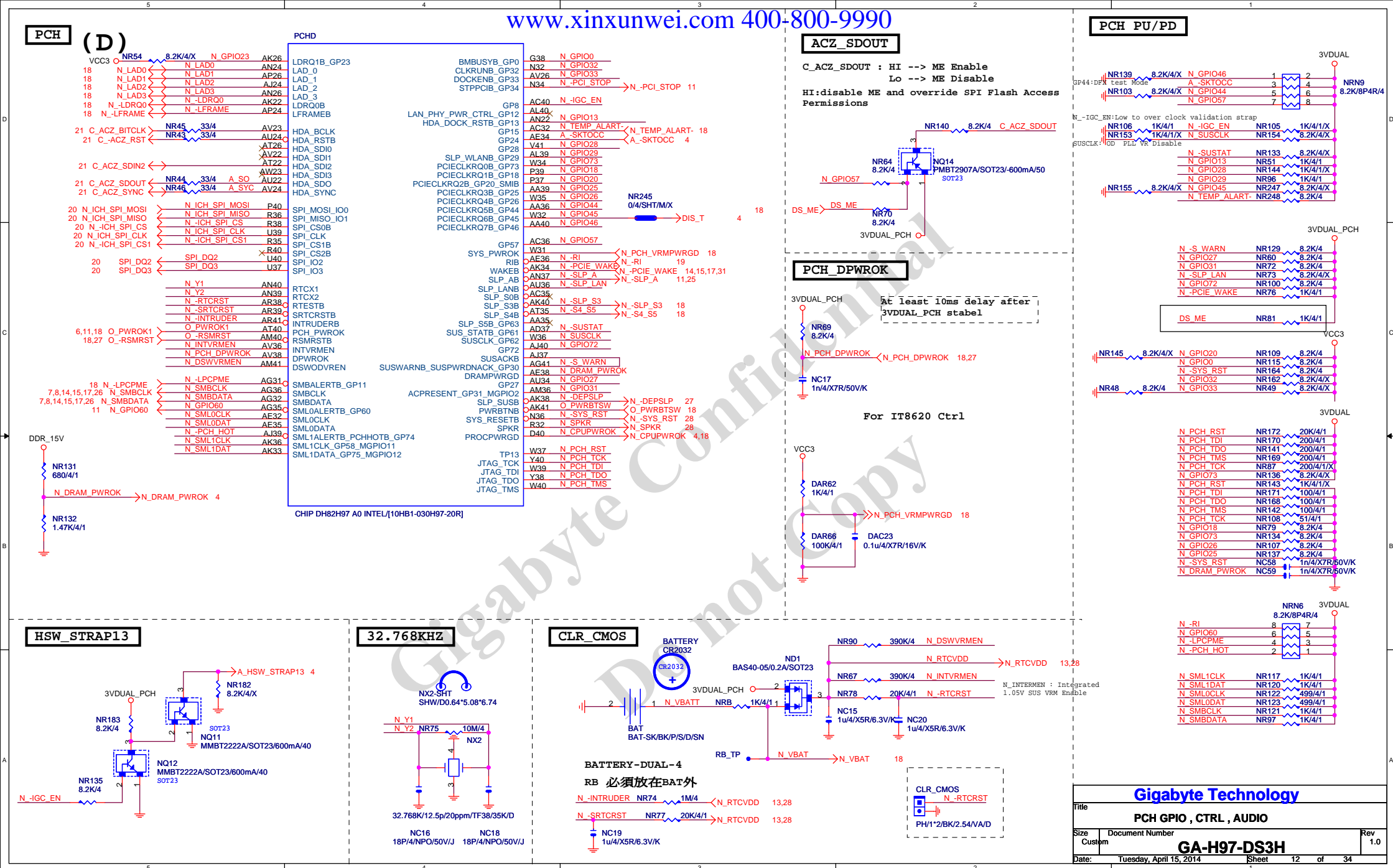
VGA ESD

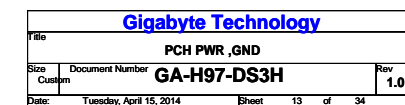


VGA DDC

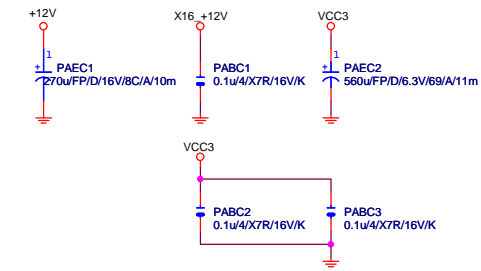


Size Custom	Document Number GA-H97-DS3H	Rev 1.0
Date: Tuesday, April 15, 2014	Sheet 12 of 34	



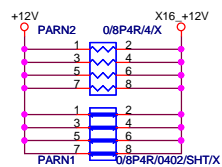


PCIEX16 CAP



PCIEX16 PROTECT SHT

+12 protect short-wire test



PCIEX16 AC CAP

PA EXP TXP0 C	PAC5	0.22u4/X5R/6.3V/K	PA EXP TXP0 C
PA EXP TXN0 C	PAC4	0.22u4/X5R/6.3V/K	PA EXP TXN0 C
PA EXP TXP1 C	PAC6	0.22u4/X5R/6.3V/K	PA EXP TXP1 C
PA EXP TXN1 C	PAC7	0.22u4/X5R/6.3V/K	PA EXP TXN1 C
PA EXP TXP2 C	PAC8	0.22u4/X5R/6.3V/K	PA EXP TXP2 C
PA EXP TXN2 C	PAC9	0.22u4/X5R/6.3V/K	PA EXP TXN2 C
PA EXP TXP3 C	PAC10	0.22u4/X5R/6.3V/K	PA EXP TXP3 C
PA EXP TXN3 C	PAC11	0.22u4/X5R/6.3V/K	PA EXP TXN3 C
PA EXP TXP4 C	PAC12	0.22u4/X5R/6.3V/K	PA EXP TXP4 C
PA EXP TXN4 C	PAC13	0.22u4/X5R/6.3V/K	PA EXP TXN4 C
PA EXP TXP5 C	PAC14	0.22u4/X5R/6.3V/K	PA EXP TXP5 C
PA EXP TXN5 C	PAC15	0.22u4/X5R/6.3V/K	PA EXP TXN5 C
PA EXP TXP6 C	PAC16	0.22u4/X5R/6.3V/K	PA EXP TXP6 C
PA EXP TXN6 C	PAC17	0.22u4/X5R/6.3V/K	PA EXP TXN6 C
PA EXP TXP7 C	PAC19	0.22u4/X5R/6.3V/K	PA EXP TXP7 C
PA EXP TXN7 C	PAC18	0.22u4/X5R/6.3V/K	PA EXP TXN7 C
PA EXP TXP8 C	PAC20	0.22u4/X5R/6.3V/K	PA EXP TXP8 C
PA EXP TXN8 C	PAC21	0.22u4/X5R/6.3V/K	PA EXP TXN8 C
PA EXP TXP9 C	PAC22	0.22u4/X5R/6.3V/K	PA EXP TXP9 C
PA EXP TXN9 C	PAC23	0.22u4/X5R/6.3V/K	PA EXP TXN9 C
PA EXP TXP10 C	PAC24	0.22u4/X5R/6.3V/K	PA EXP TXP10 C
PA EXP TXN10 C	PAC25	0.22u4/X5R/6.3V/K	PA EXP TXN10 C
PA EXP TXP11 C	PAC26	0.22u4/X5R/6.3V/K	PA EXP TXP11 C
PA EXP TXN11 C	PAC27	0.22u4/X5R/6.3V/K	PA EXP TXN11 C
PA EXP TXP12 C	PAC28	0.22u4/X5R/6.3V/K	PA EXP TXP12 C
PA EXP TXN12 C	PAC29	0.22u4/X5R/6.3V/K	PA EXP TXN12 C
PA EXP TXP13 C	PAC30	0.22u4/X5R/6.3V/K	PA EXP TXP13 C
PA EXP TXN13 C	PAC31	0.22u4/X5R/6.3V/K	PA EXP TXN13 C
PA EXP TXP14 C	PAC32	0.22u4/X5R/6.3V/K	PA EXP TXP14 C
PA EXP TXN14 C	PAC33	0.22u4/X5R/6.3V/K	PA EXP TXN14 C
PA EXP TXP15 C	PAC34	0.22u4/X5R/6.3V/K	PA EXP TXP15 C
PA EXP TXN15 C	PAC35	0.22u4/X5R/6.3V/K	PA EXP TXN15 C

PCI-E REV:1.1--> 2.5GHZ

PCE-E X1(單向) BANDWITH=2.5GHz*(8b/10b)=2Gb/s=250MB/s

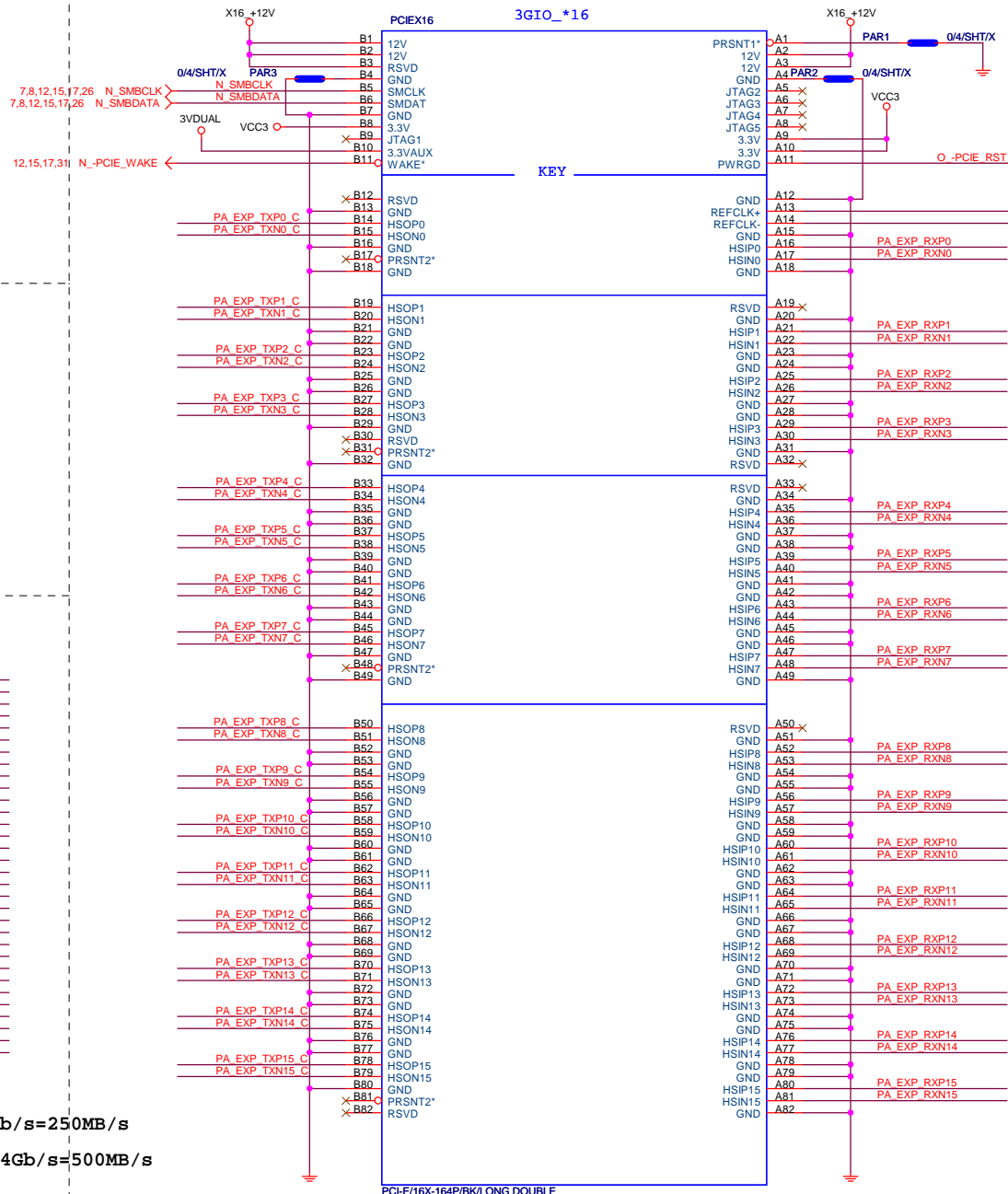
PCE-E X1(雙向) BANDWITH=2.5GHz*(8b/10b)X2=4Gb/s=500MB/s

PCE-E X16(單向) BANDWITH=2.5GHz*(8b/10b)X16=32Gb/s=4GB/s

PCE-E X16(雙向) BANDWITH=2.5GHz*(8b/10b)X16X2=64Gb/s=8GB/s

PCI-E REV:2.0--> 5GHZ

PCIEX16 SLOT

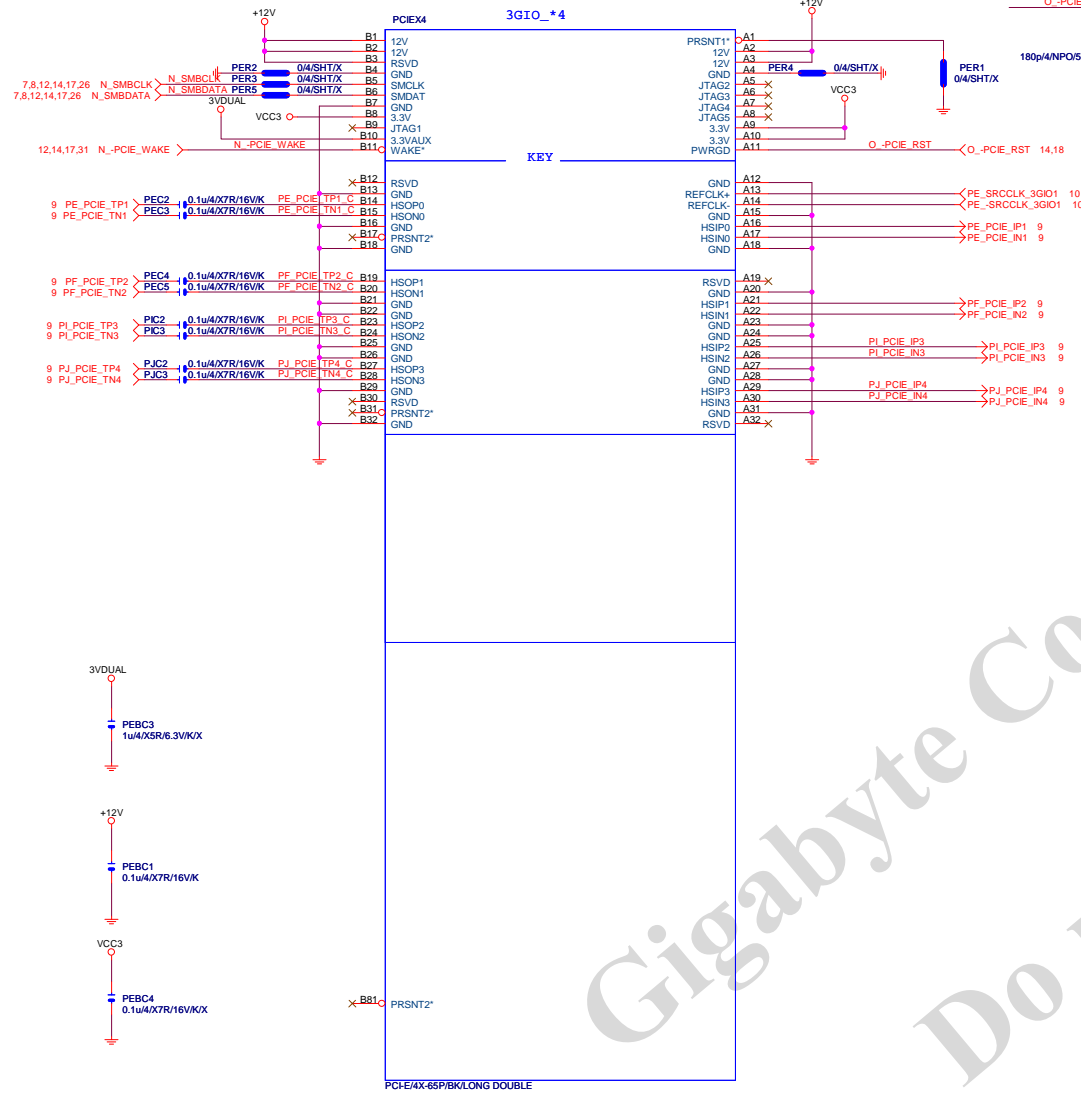


PCIEX16:16/5/5/5/16

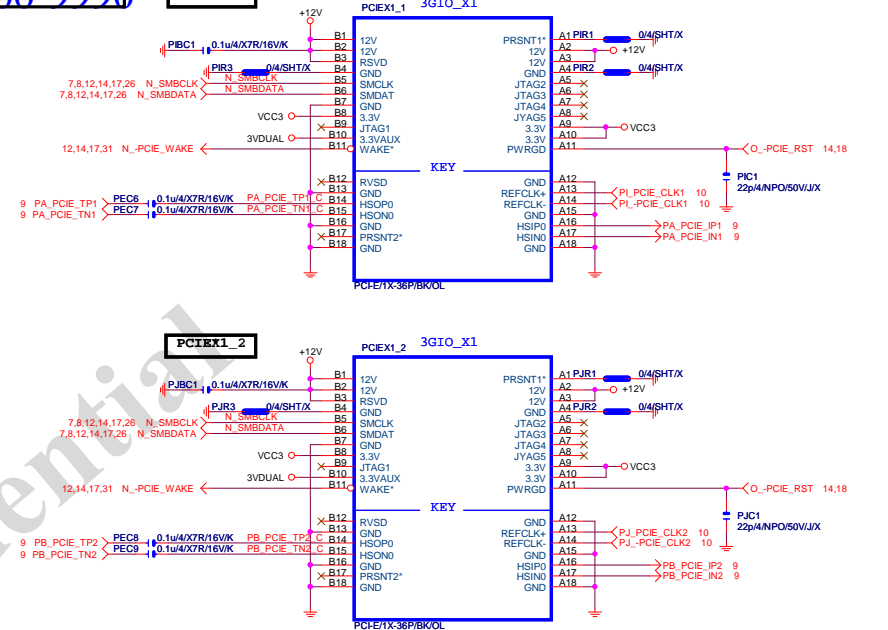
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PA EXP RXN0..15]	>>>PA_EXP_RXN[0..15]	4
PA EXP TXP0..15]	>>>PA_EXP_TXP[0..15]	4
PA EXP TXN0..15]	>>>PA_EXP_TXN[0..15]	4

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PCI EXPRESS * 16			
Title	Document Number	GA-H97-HD3	
Size	Custom	Rev	0.2
Date:	Monday, March 10, 2014	Sheet	14 of 34

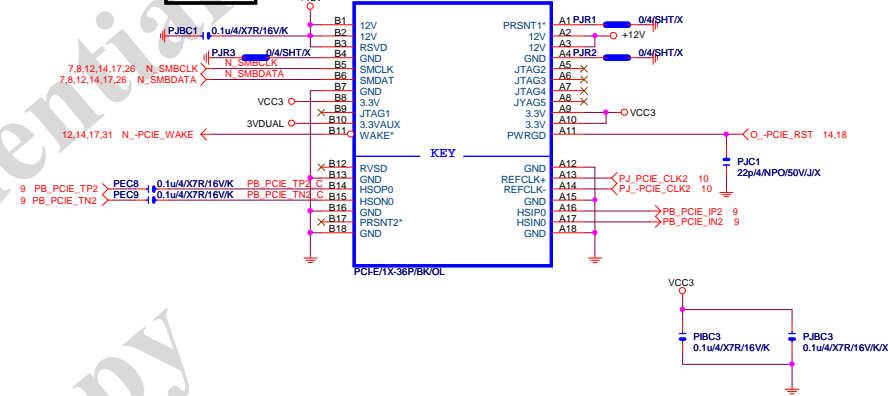
PCIEX4 SLOT



PCIEX1_1



PCIEX1_2

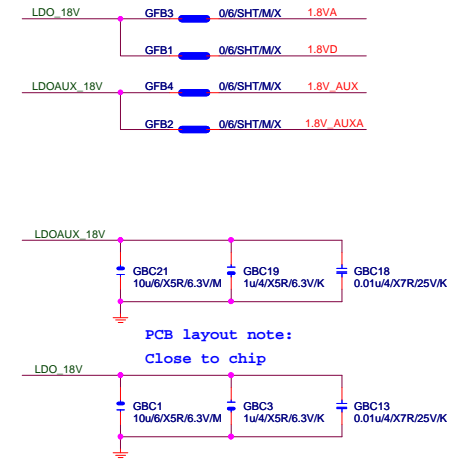
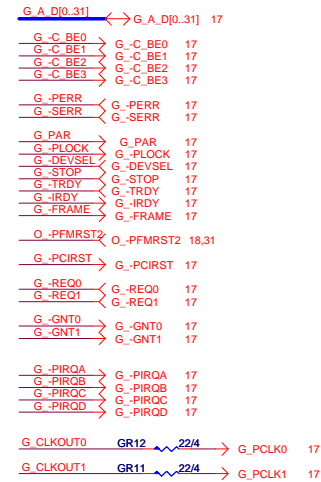
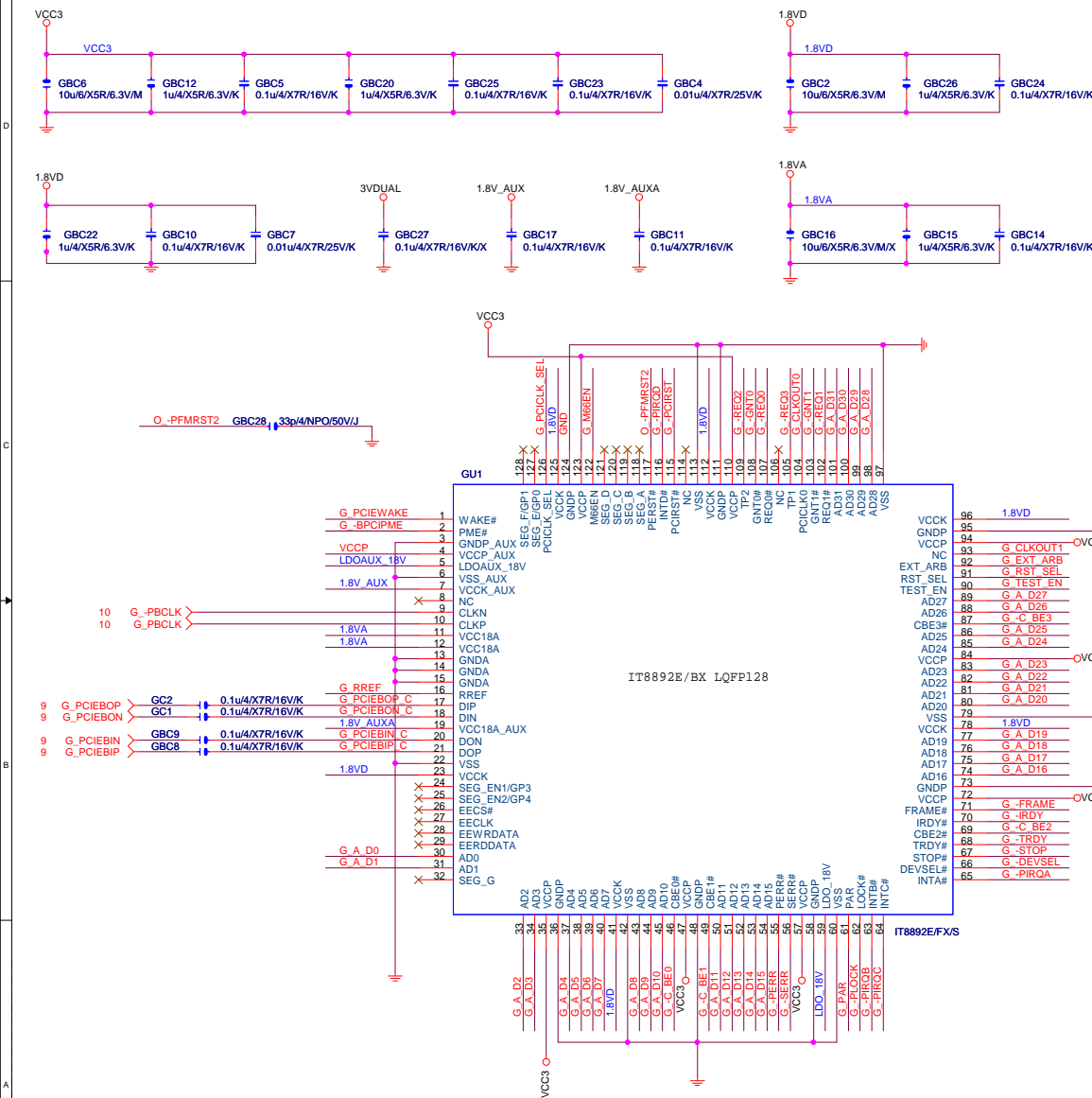


PCIEX4/X1 SWITCH

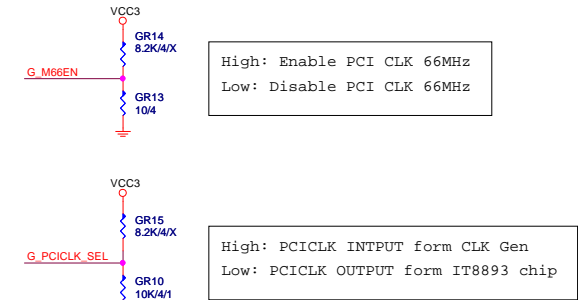
	N_PCIE_4_SW (PCH GPIO48)	PCIEX4_X1 (SIO_GPIO26)
P	H	H
C		
PCIEX4 No devices	H	H
PCIEX4 -> X1		
PCIEX4 Have devices		
PCIEX4 -> X4	L	L
PCIEX1_1/2 --> N/A		

Function	SEL
xI--> x0a	L;PCIEX4 SLOT-->X1
xI--> x0b	H;PCIEX4 SLOT-->X4

Gigabyte Technology			
Title	PCIE X1 1,2,3		
Size	Document Number		Rev
Custom	GA-H97-DS3H		1.0
Date	Monday, March 10, 2014	Sheet 15 of 34	

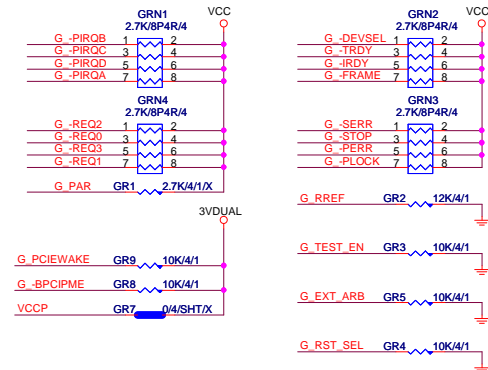


PCB layout note:
Close to chip



High: Enable PCI CLK 66MHz
Low: Disable PCI CLK 66MHz

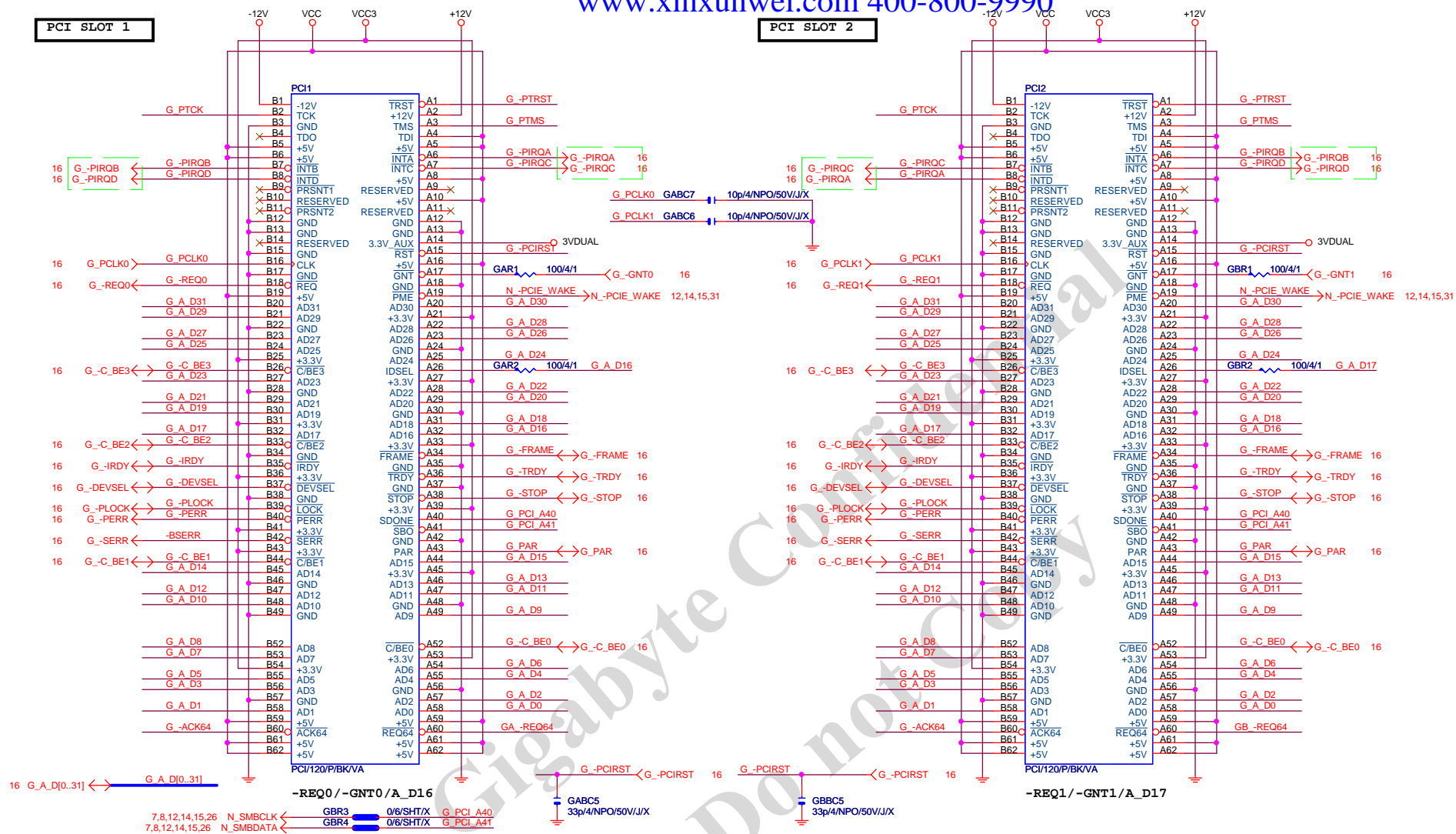
High: PCICLK INPUT form CLK Gen
Low: PCICLK OUTPUT form IT8893 chip



Gigabyte Technology		
Title		
IT8892E		
Size	Document Number	Rev
Custom	GA-H97-DS3H	1.0
Date:	Monday, March 10, 2014	Sheet 16 of 34

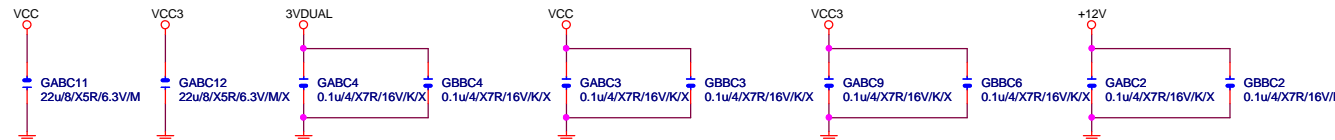
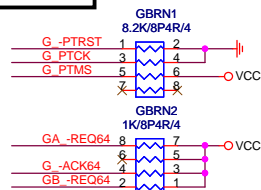
PCI SLOT 1

PCI SLOT 2

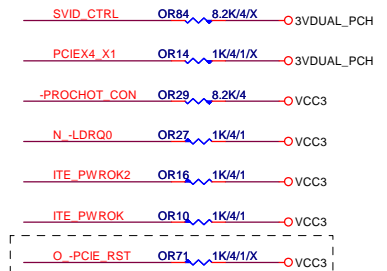


PCI PU

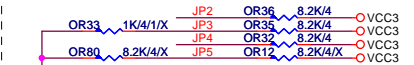
PCI CAP



GIGABYTE™		
PCI SLOT 1&2		
Size	Document Number	Rev
Custom	GA-H97-DS3H	1.0
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```
JP3--- High SPI-Flash Disable
      Low SPI-Flash Enable
```



```
JP5:N\A FOR 8728 DX
JP5:PULL DOWN FOR 8728
anti-surge enable
```

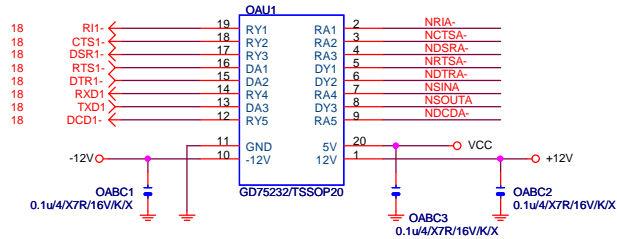
```
└─ EUP control detect ─┘
```

JP4	1	k8 power sequency function is Disable
	0	k8 power sequency function is Enable
JP3	1 1	The default value of EC Index 63h/6Bh/73h is 80h.
	1 0	The default value of EC Index 63h/6Bh/73h is FFh.
JP5	0 1	The default value of EC Index 63h/6Bh/73h is 00h.
	0 0	The default value of EC Index 63h/6Bh/73h is 40h.

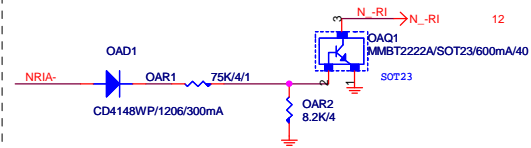
MB ID



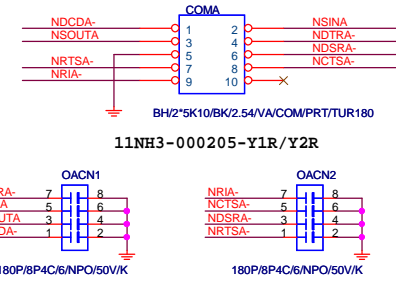
COMA



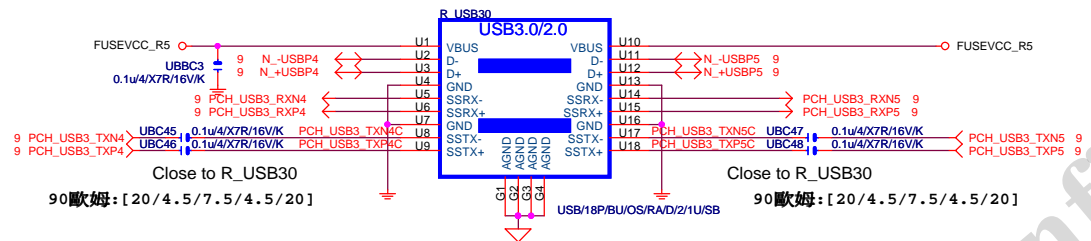
COM RI



COM BUFFER

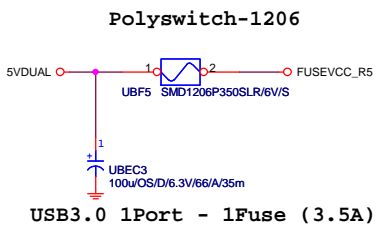


USB30_20 CONNECT

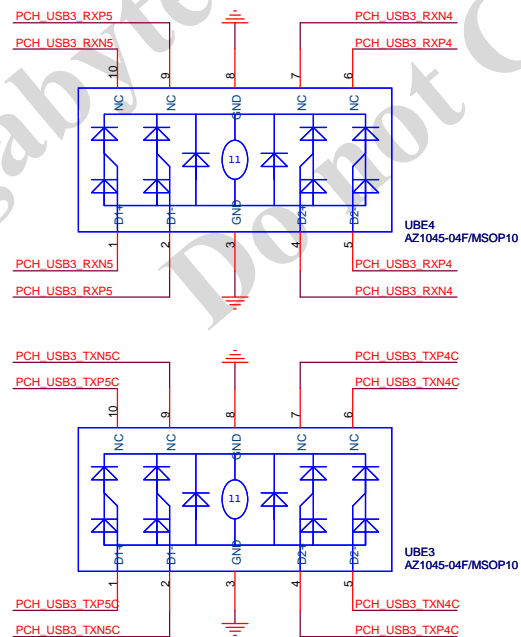


-PROHOT

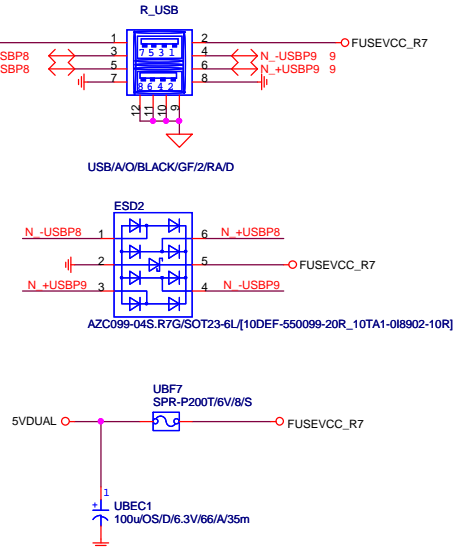
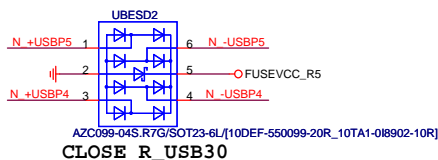
USB30 PWR



USB30 ESD PROTECT

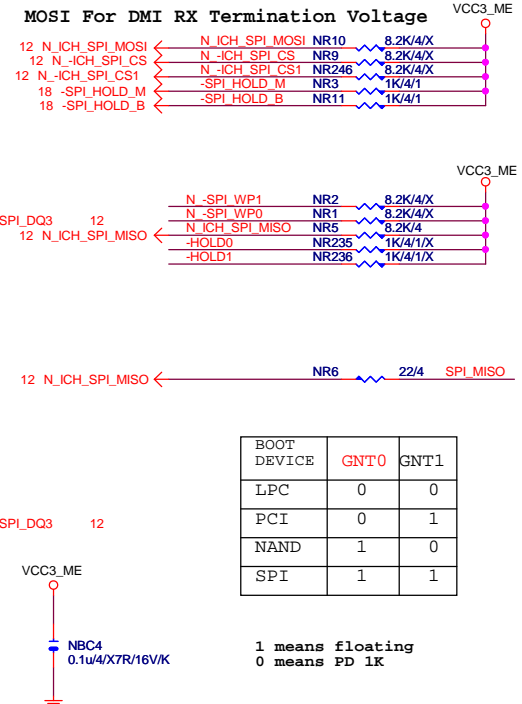


USB20 ESD PROTECT



Gigabyte Technology

Title		COM/ PROHOT/ R_USB	
Size	Document Number	GA-H97-DS3H	
Custom		Rev 1.0	
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18

SLIN: \longleftrightarrow

PRN3

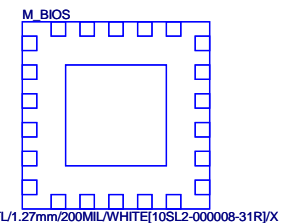
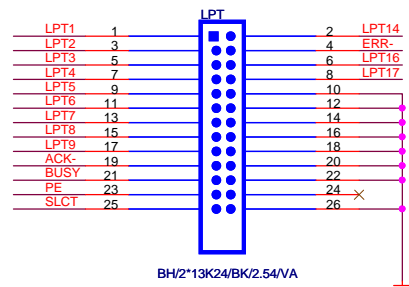
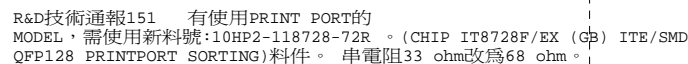
PD1	1	2	LPT3
SLIN:	3	4	LPT17
PD2	5	6	LPT4
PD3	7	8	LPT5

68/8P4R/4

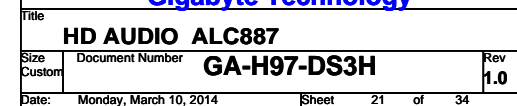
PRN1

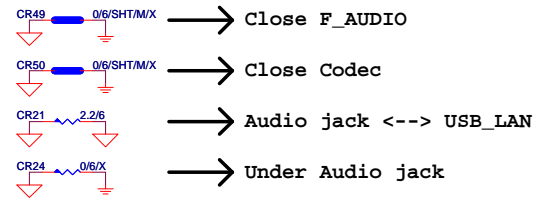
PD4	1	2	LPT6
PD5	3	4	LPT7
PD6	5	6	LPT18
PD7	7	8	LPT9

68/8P4R/4

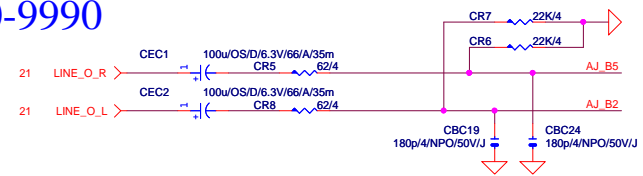


FOR ON/OFF PLAY





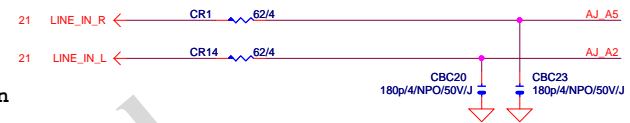
LINE-OUT



LINE-IN

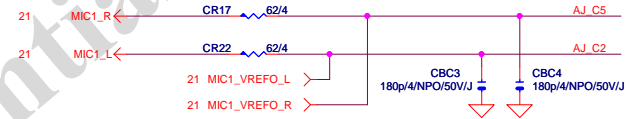
Verify MIC function
in LINE-in

Only reserved for ALC888



For 889A/888

MIC-IN



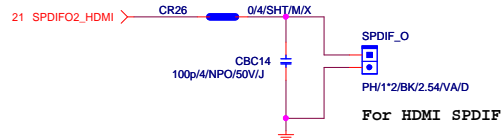
SURROUND

CEN/LFE

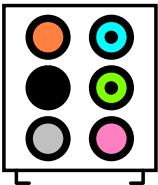
SURR BACK

SPDIF_OUT

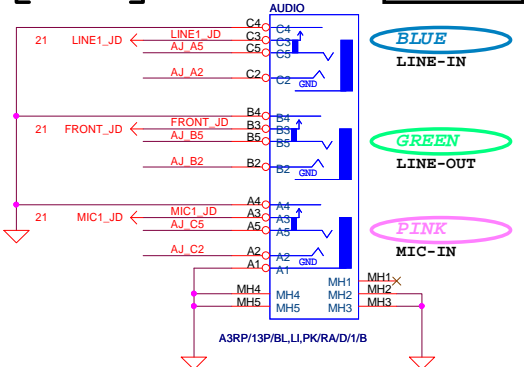
SPDIF_IN



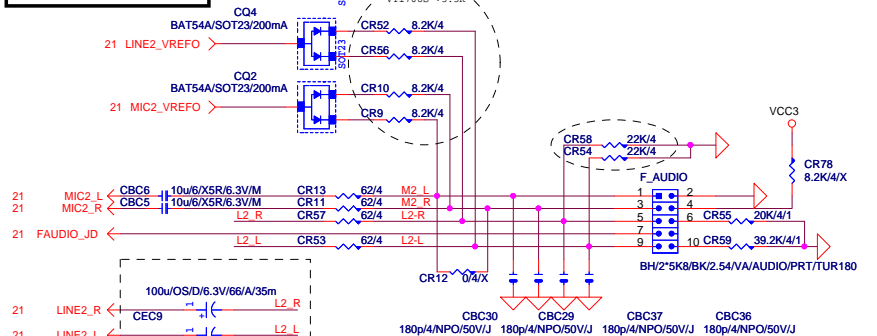
AZALIA JACK



AZALIA JACK



AZALIA FRONT PANEL

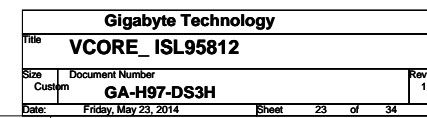


Gigabyte Technology

AUDIO JACK

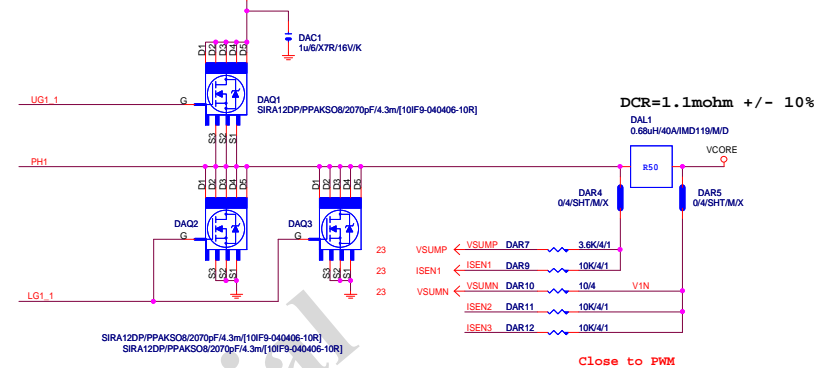
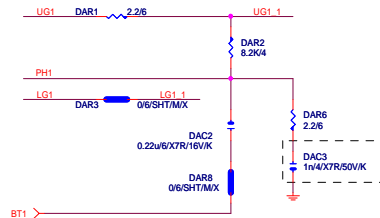
GA-H97-DS3H

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Size	Custom	1.0
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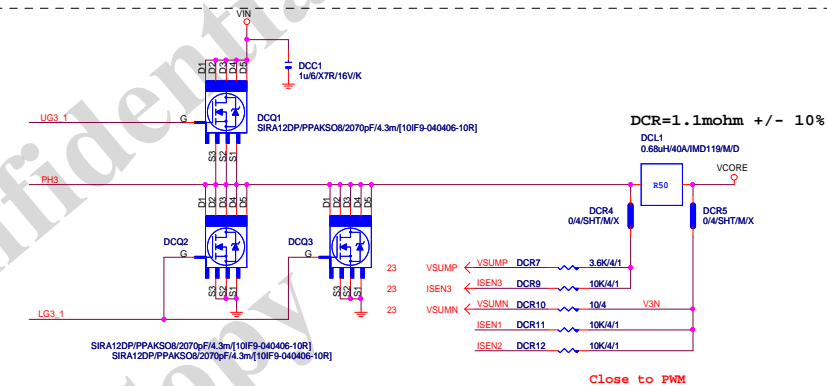
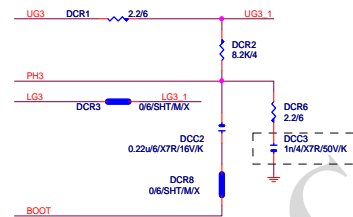
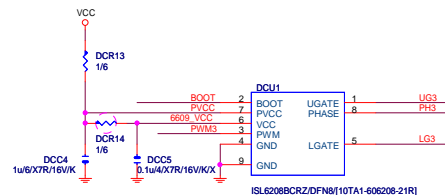




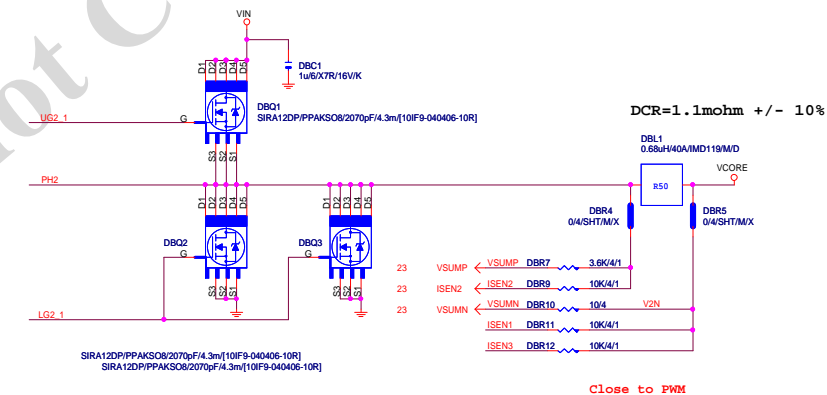
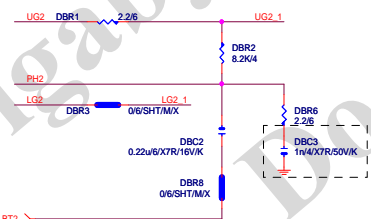
[1]



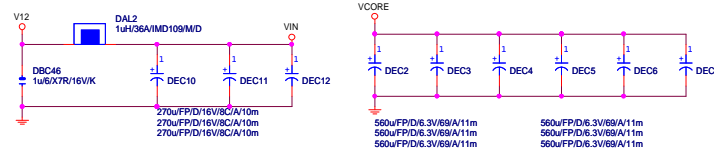
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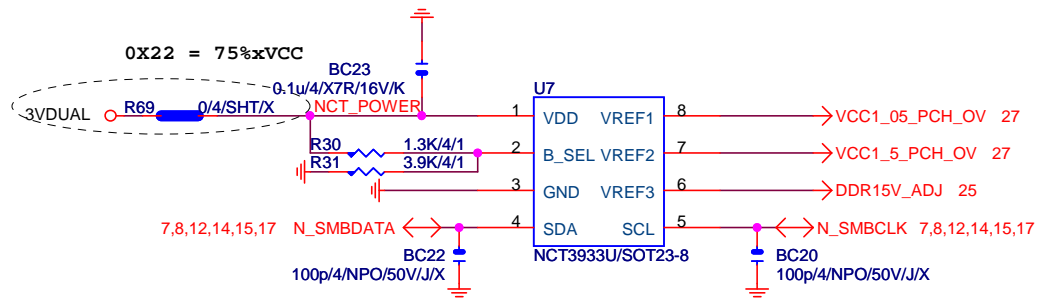
[2]



MOSFET HEATSINK



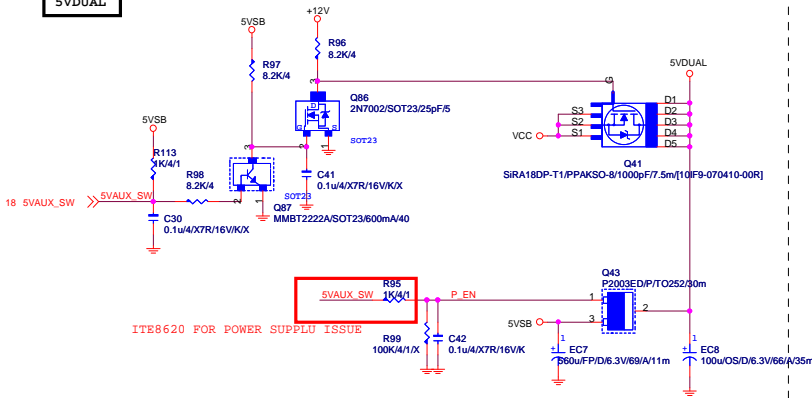
OVER VOLTAGE



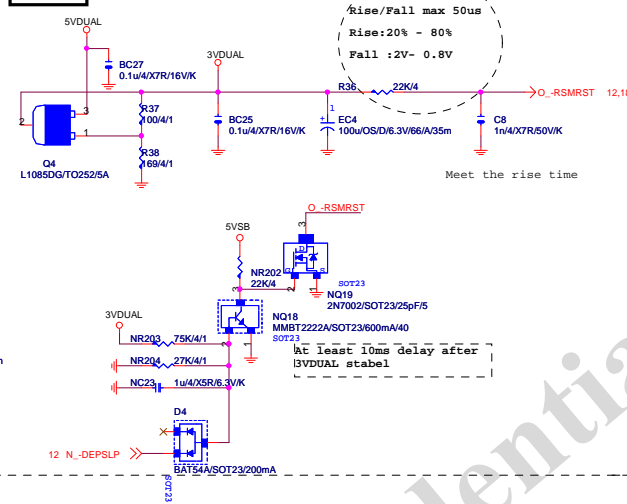
NCT3933	0X2A	0X20	0X22
VREF1	DDRVTT	VREF_DDRA_DQ	PCH Core
VREF2	VREF_DDRA_CA	N/A	VCC1_5_PCH
VREF3	VREF_DDRA_CA	VREF_DDRB_DQ	SMREF

Gigabyte Technology			
Title			
CPU CORE VR-2			
Size	Document Number		Rev
Custom	GA-H97-DS3H		1.0
Date:	Monday, March 10, 2014	Sheet	26 of 34

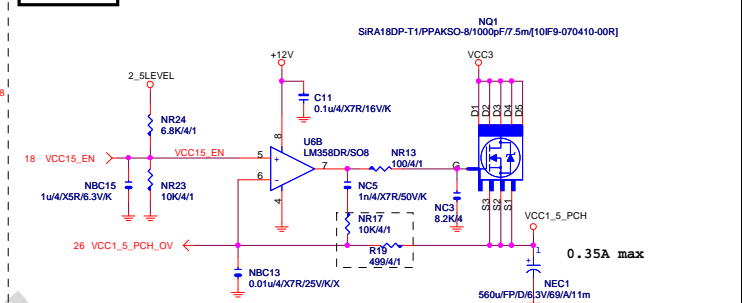
5VDUAL



3VDUAL

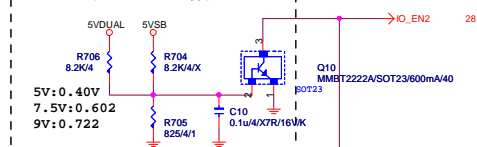


VCC1_5_PCH

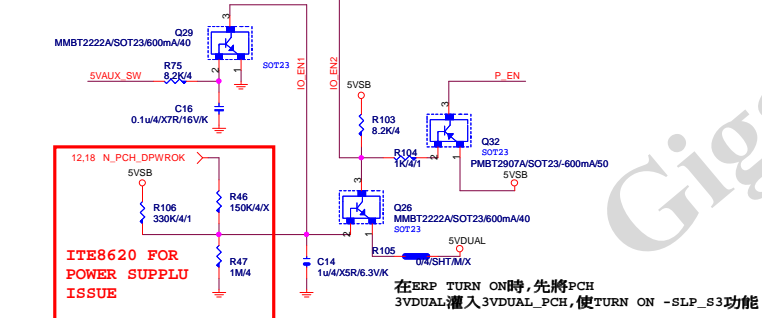


5VSB OVP:7.5V protection

NOTE 82:改5V DUAL,6V保護

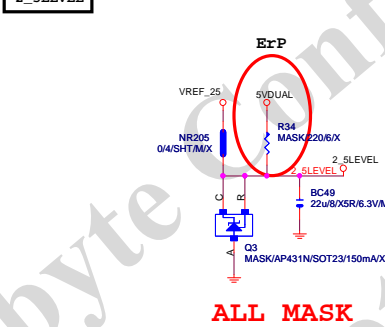


5VDUAL SHORT PROTECT

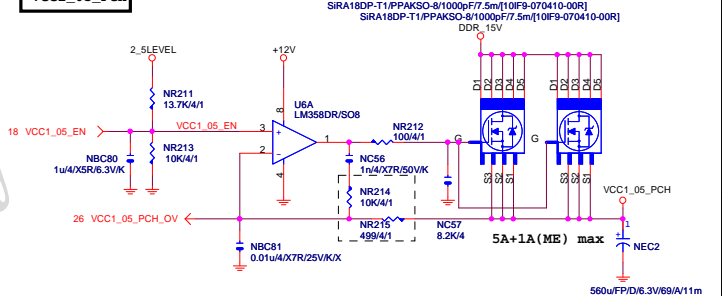


PCH ERP

2_5LEVEL



VCC1_05_PCH

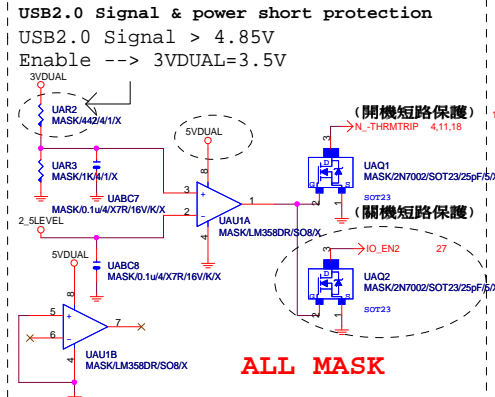
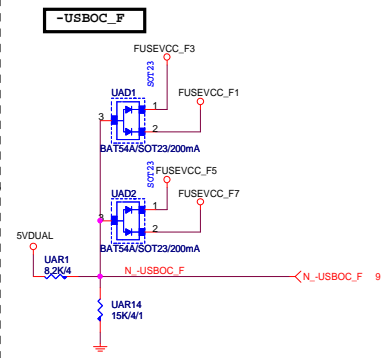
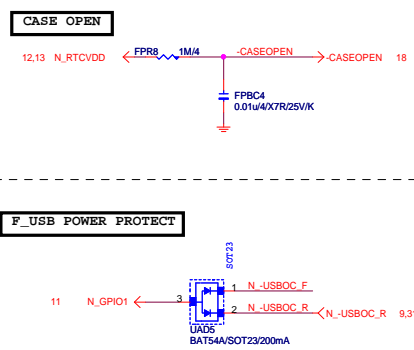
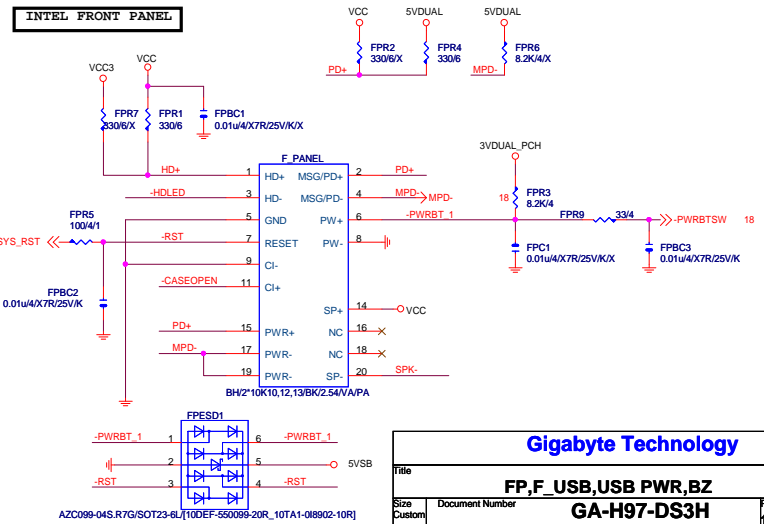
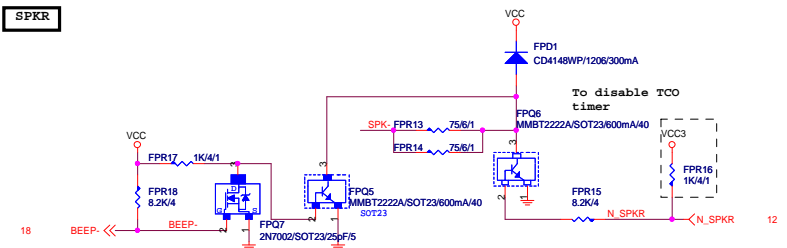
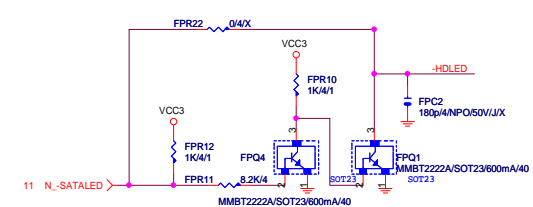
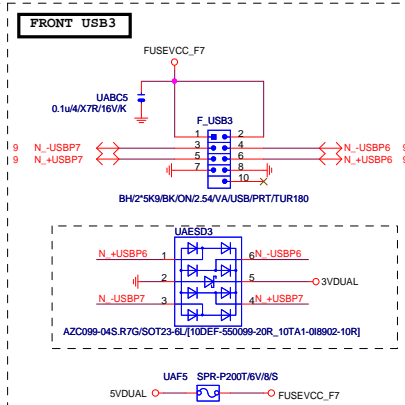
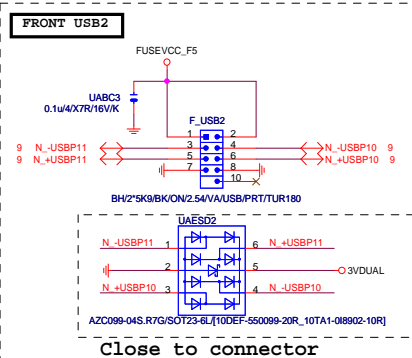
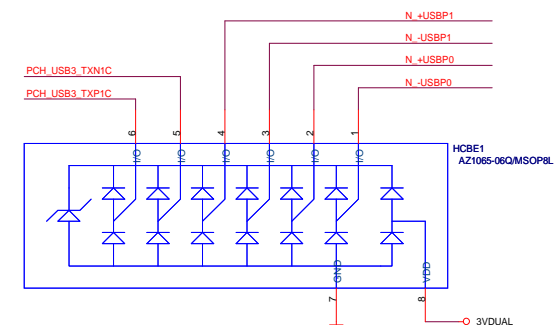
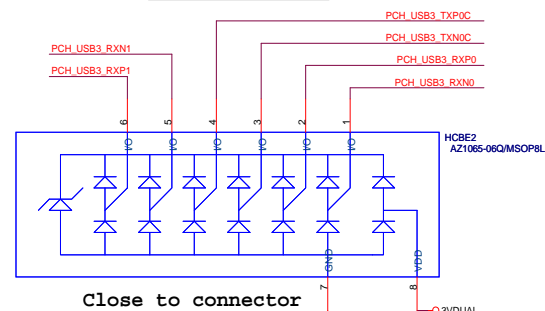


PWR SEQ



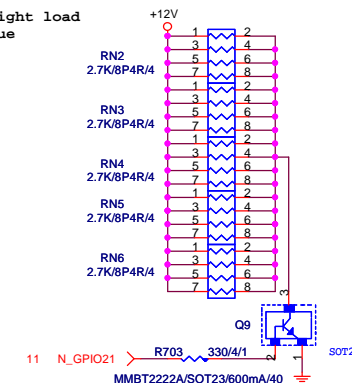
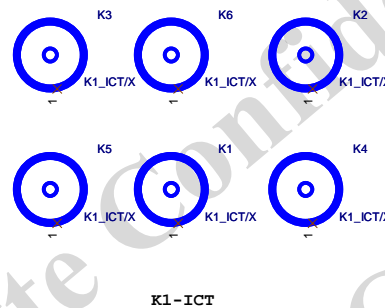
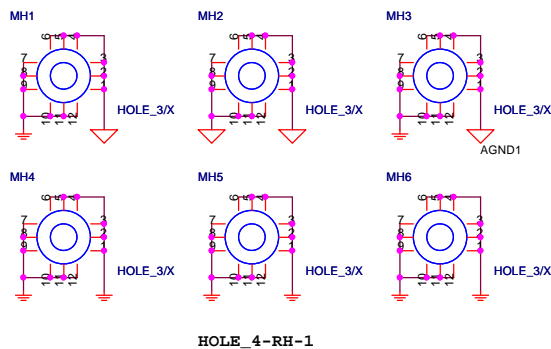
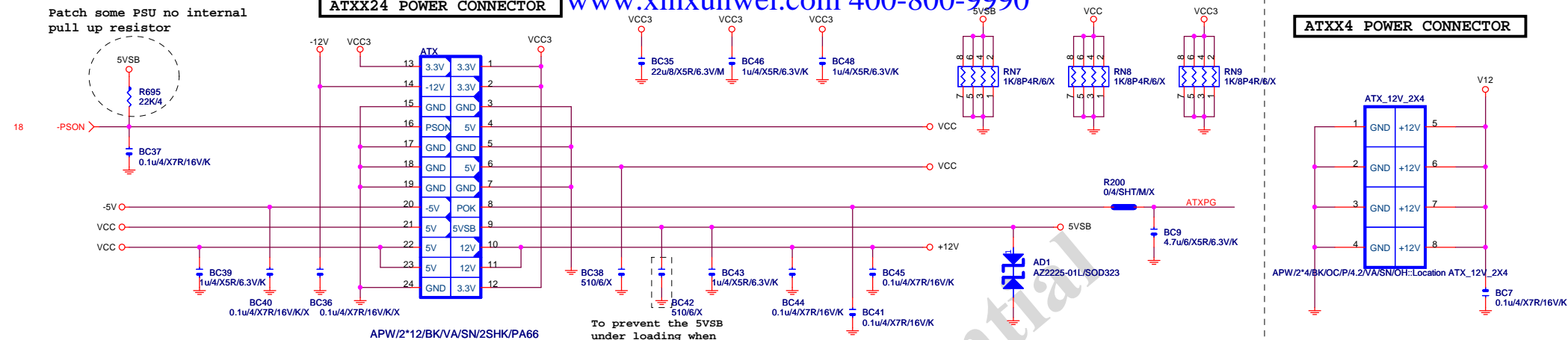
Gigabyte Technology

Title			DISCRETE POWER
Size	Document Number	GA-H97-DS3H	
Custom		Rev 1.0	
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ATXX24 POWER CONNECTOR

ATXX4 POWER CONNECTOR



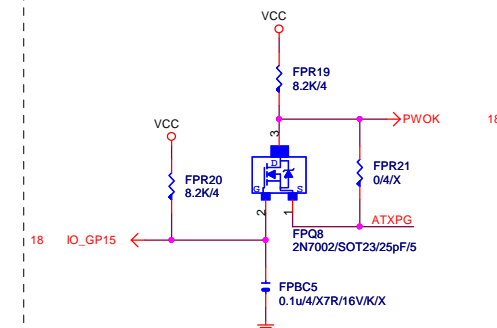
CLK GEN

CPU Frequency Selection

FSLB	FSLA	CPU
0	0	100M <Default>
0	1	133M
1	0	200M
1	1	166M

PWOK PATCH

【技術通報R&D技術通報154】



Gigabyte Technology

Title		
ATX POWER CONNECTOR		
Size	Document Number	Rev
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Rev 0.2 modify

18 VREF ←

18 SYS_TEMP ←

18 CPU_TEMP ←

18 PCH_TEMP ←

OC7
1u4/X5R/6.3V/K

OC6
1u4/X5R/6.3V/K

OR73
10K/4/1

R674
8.2K/4

R675
8.2K/4

RS_SYS
10K/1/4/S

Close S10

CLOSE CPU VCORE MOS

18 VREF ←

18 TR4 ←

18 TR5 ←

18 TR6 ←

OC13 $1\mu 4/X5R/6.3V/K$

OC14 $1\mu 4/X5R/6.3V/K$

OC15 $1\mu 4/X5R/6.3V/K$

RS1 $100K/1/4/S$

RS4 $100K/1/4/S$

RS_PWM $100K/1/4/S$

OR82 $10K/4/1$

OR83 $10K/4/1$

OR85 $10K/4/1$

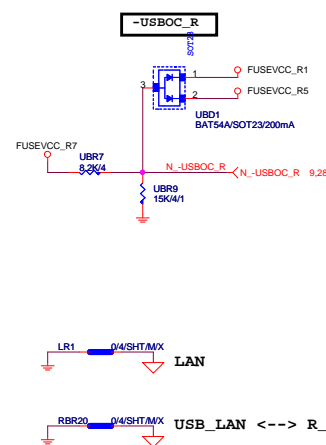
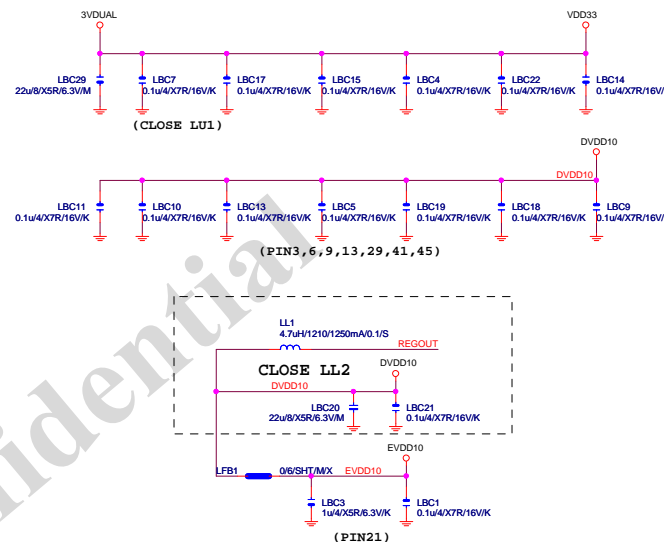
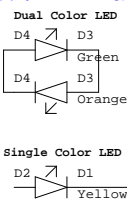
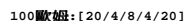
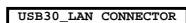
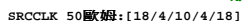
126-133 degree

RS1、RS2、RS3 CLOSE CPU VR MOSFET

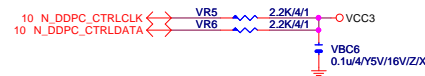
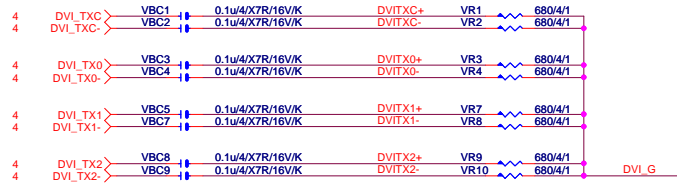
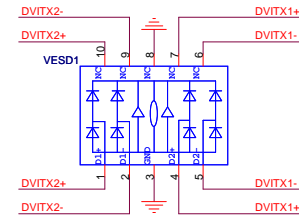
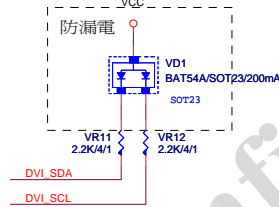
The diagram illustrates the power supply section of the T1020 board. It shows various voltage regulators and their connections. The regulators include OR75 (8.2K/4), OR74 (8.2K/4), OR57 (5.49K/4), OR79 (75K/4/1), OR76 (8.2K/4), OR78 (15K/4/1), OR77 (10K/4/1), OR81 (10K/4/1), OR70 (15K/4/1), OR53 (8.2K/4), and OC3. The regulators are connected to various input and output voltages, including VCORE, DDR_15V, VCC3, +12V, CPU_VAXG, and VCC. The diagram also shows the division of VIN2 and VIN3 to VIN0 and VIN3, and the connection of VCCORE0. The diagram is divided into sections by dashed lines, with labels like 'Fe *' and 'Fe *' indicating different functional blocks. The diagram is labeled 'T1020 Board' and 'Power Supply'.

[illegible]

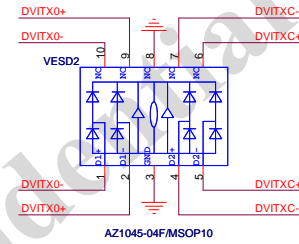
Diagram of a fan speed control circuit. The circuit includes a +12V supply, a 100uF/16V electrolytic capacitor (EC9), a 1uF/50V ceramic capacitor (FC3), a 0.1uF/4V ceramic capacitor (BC219), and a 0V/SHT/X thermistor (R692). The thermistor is highlighted with a red oval and labeled "SHORT PROTECT R0603-SHORT10". The fan is labeled "SYS_FAN3 FAN1*3/BK/A3/PA66".



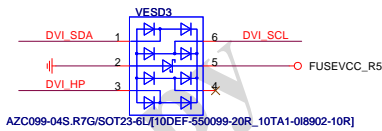
DVI:20/4/6/4 Impedance=85 +- 17.5%

DVI NON LEVEL SHIFT**R&D技術通報 162**

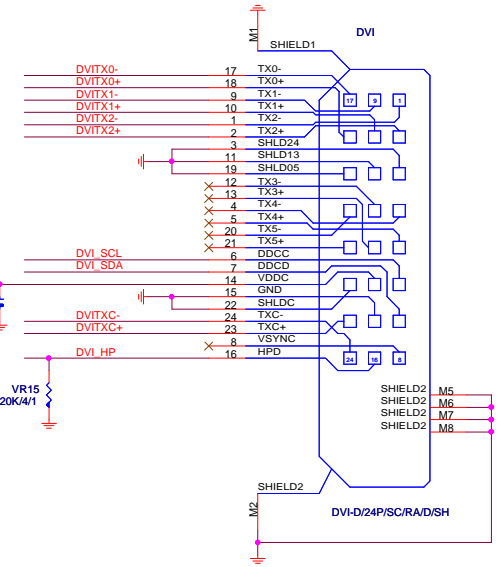
Close to connector



Close to connector



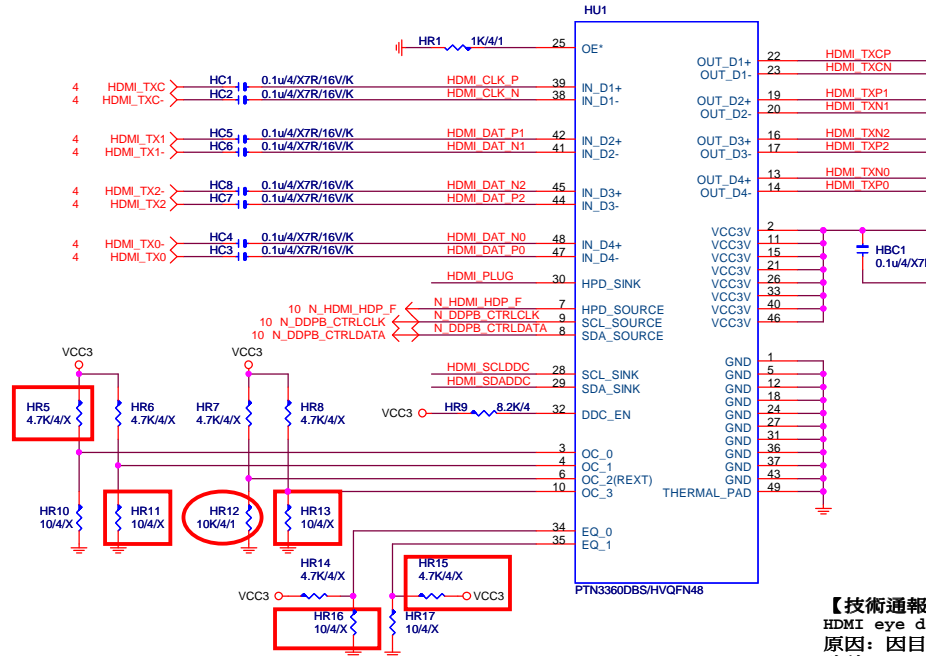
Close to connector

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Title		
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HDMI LEVEL SHIFT

HDMI:20/4/6/4/20
Impedance=85 +- 17.5%



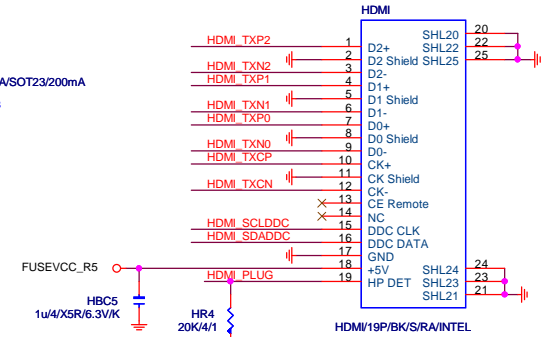
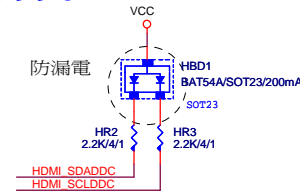
PTN3360:PIN 4/10/34/35 NC PIN,都不上值;只上HR12:10K
ASM1442:紅色框要上,HR12:3.16K

【技術通報R&D技術通報150】

HDMI eye diagram1.4版(deep color)會fail

原因: 因目前的HDMI訊號過長,造成RISING TIME過慢,而會壓到eye diagram

改善: ASMEDIA ASM1442 : 3.16K(PIN6 PULL DOWN電阻) 10ohm(PIN4 PULL DOWN電阻)



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