

Model Name: GA-H81M-D2W WG

Revision
1.01

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,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 X1 *2 SLOT
16	PCI SLOT (NA)
17	ITE 8620 LPC IO
18	COM,KB_MS_USB,USB30_20
19	HWM,FAN CTRL,OV
20	DUAL BIOS
21	FP,FUSB,SPK,SATALED
22	Realtek ALC887-VD2
23	REAR AUDIO JACK
24	REALTEK RTL8111F
25	DISCRETE POWER
26	ATX
27	VCORE ISL95812_1

SHEET TITLE

28	VCORE ISL95812_2
29	RT8120_DDR POWER
30	LPT
31	DVI
32	IT8892E (NA)
33	USB3 VL805

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Cover Sheet		
Size Custom	Document Number GA-H81M-D2W WG	Rev 1.01
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Component value change history

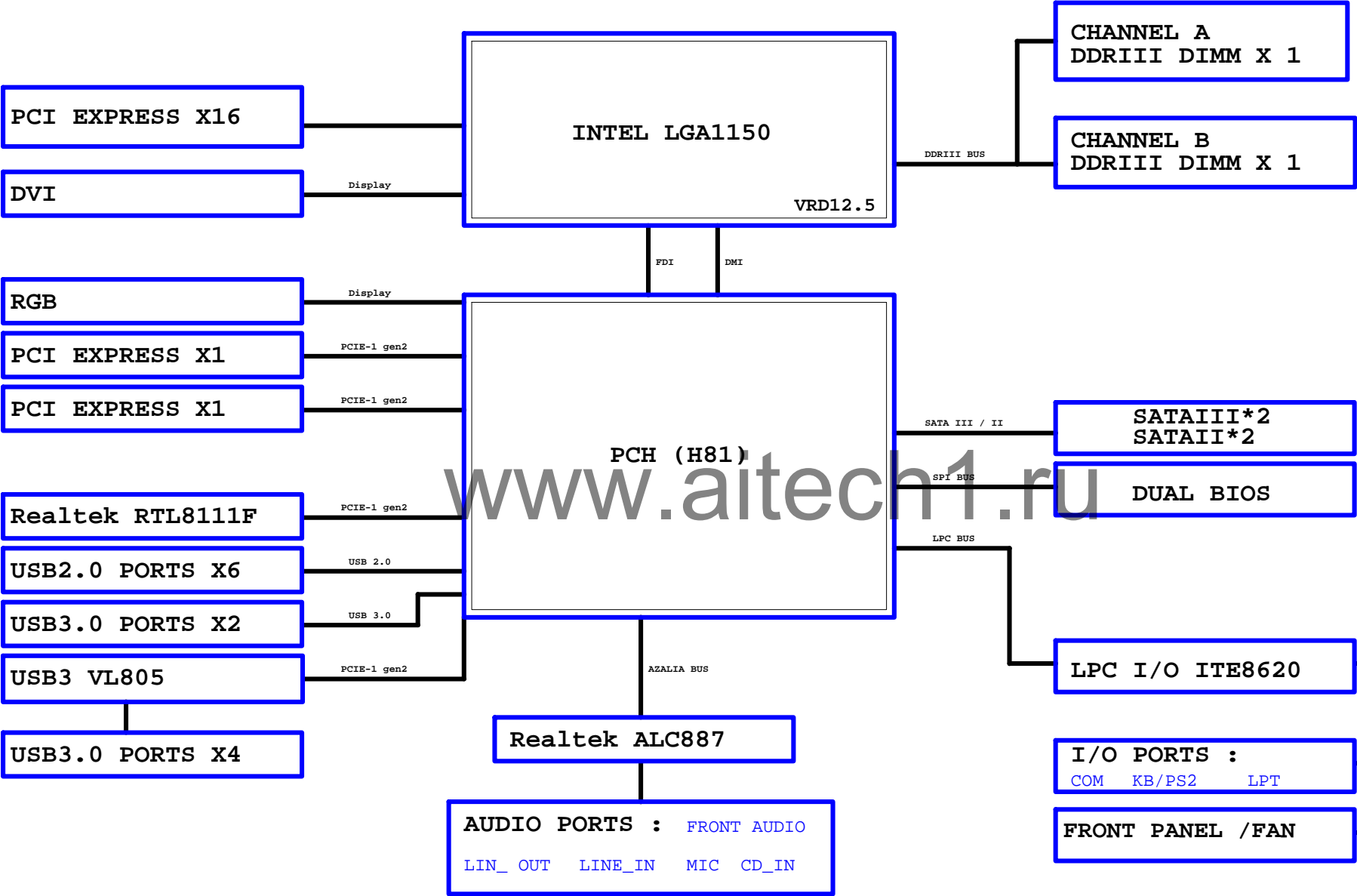
Circuit or PCB layout change

PCB : S4VNB (精成,全成信,伊利安達)

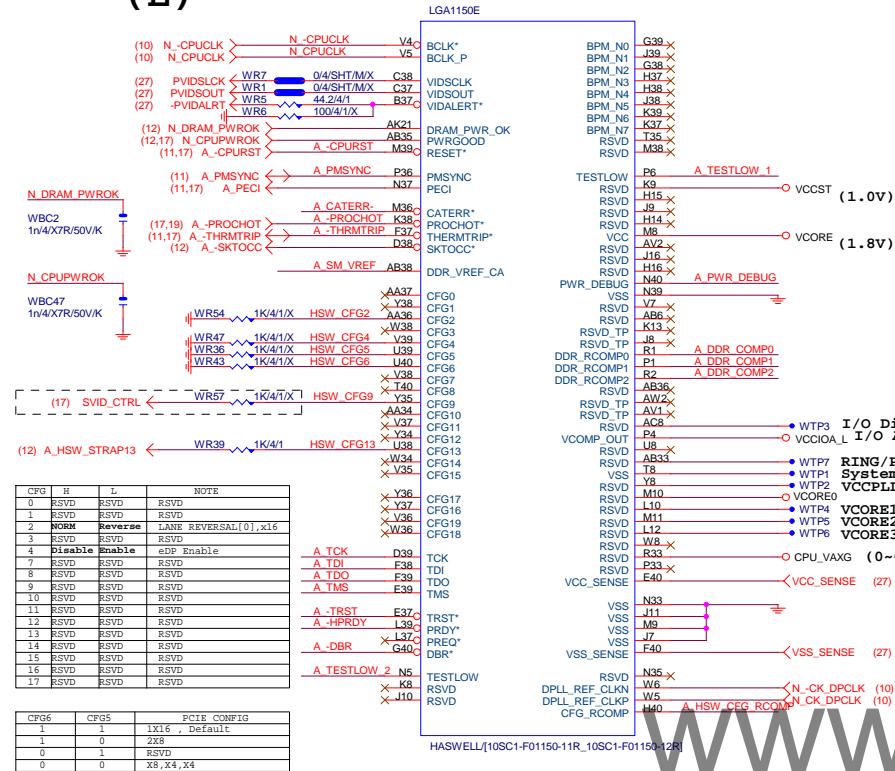
S:單文
4:四層板
V:第二層是VCC
N:咖啡色
B:製程

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Title			
BOM & PCB MODIFY HISTORY			
Size Custom	Document Number	GA-H81M-D2W WG	Rev 1.01
Date:	Tuesday, December 31, 2013	Sheet	2 of 33

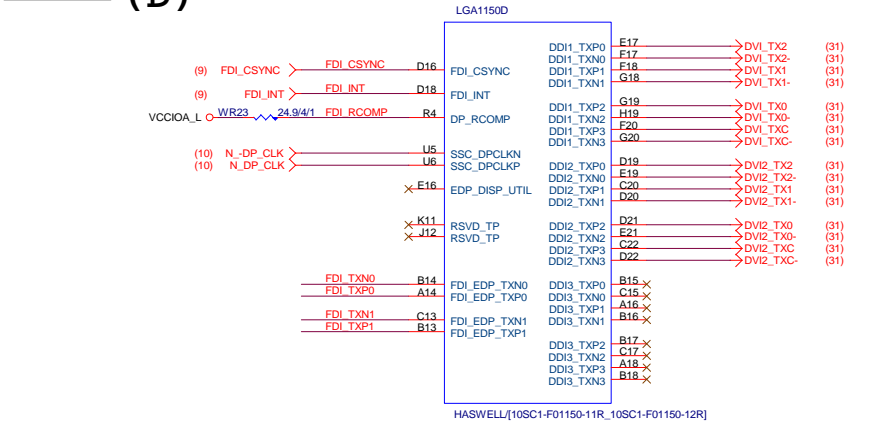
BLOCK DIAGRAM



LGA1150 (E)



LGA1150 (D)



FDI:12/4/5/4/12(breakout min 6/4/4/4/6)
Impedance=85 +- 17.5%

FDI_TXP0_11 >>> FDI_TXP[0..1] (9)
FDI_TXN0_11 >>> FDI_TXN[0..1] (9)

LGA1155 (C)

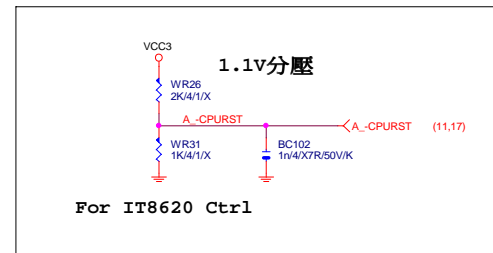
PCIEX16:16/5/5/5/16(breakout min 10/4/4/4/10)
Impedance=80 +- 17.5%



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

PA_EXP_TXP0_15 >>> PA_EXP_TXP[0..15] (14)
PA_EXP_TXN0_15 >>> PA_EXP_TXN[0..15] (14)
PA_EXP_RXP0_15 >>> PA_EXP_RXP[0..15] (14)
PA_EXP_RXN0_15 >>> PA_EXP_RXN[0..15] (14)

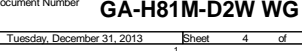
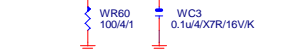
-CPURST



CPU SVID



CPU PU/PD



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CPU LGA1150-A

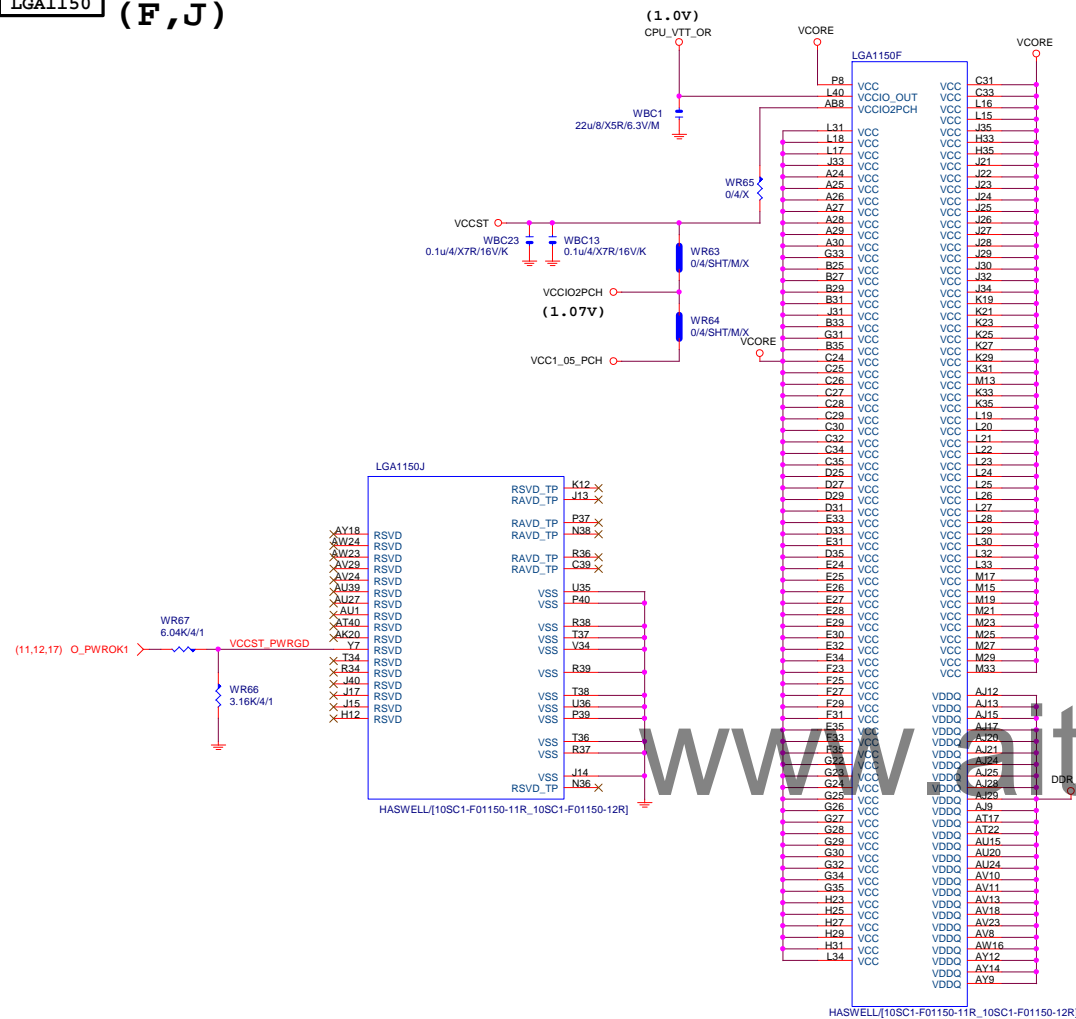
Size Custom Document Number GA-H81M-D2W WG

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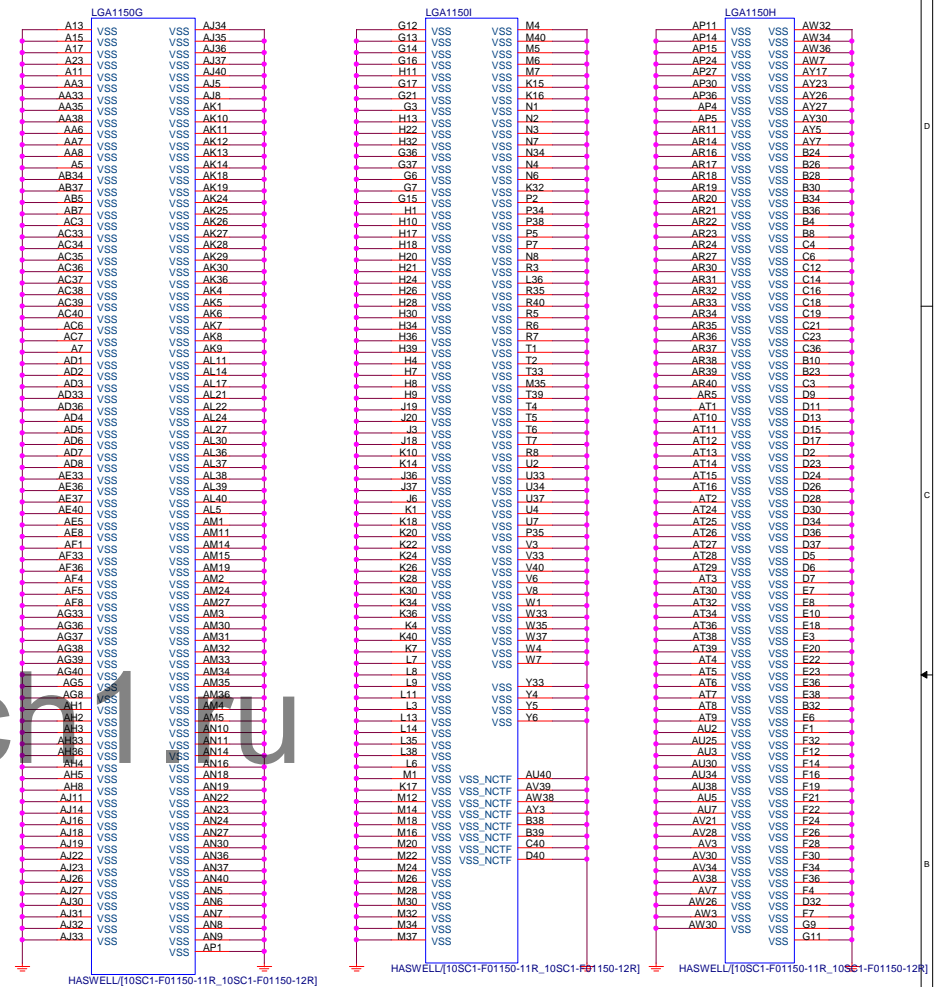
LGA1150 (A)

LGA1150A		DDR0_MA0	DDR0_DQ0	AD38	MDA0
MAAA0	AU13	DDR0_MA1	DDR0_DQ1	AD39	MDA1
MAAA1	AV16	DDR0_MA2	DDR0_DQ2	AF38	MDA2
MAAA2	AU16	DDR0_MA3	DDR0_DQ3	AF39	MDA3
MAAA3	AW17	DDR0_MA4	DDR0_DQ4	AD37	MDA4
MAAA4	AU17	DDR0_MA5	DDR0_DQ5	AD40	MDA5
MAAA5	AW18	DDR0_MA6	DDR0_DQ6	AE37	MDA6
MAAA6	AT18	DDR0_MA7	DDR0_DQ7	AF40	MDA7
MAAA7	AU18	DDR0_MA8	DDR0_DQ8	AH40	MDA9
MAAA8	AT19	DDR0_MA9	DDR0_DQ9	AH39	MDA10
MAAA9	AW19	DDR0_MA10	DDR0_DQ10	AK38	MDA10
MAAA10	AW19	DDR0_MA11	DDR0_DQ11	AK39	MDA11
MAAA11	AW19	DDR0_MA12	DDR0_DQ12	AH37	MDA12
MAAA12	AU19	DDR0_MA13	DDR0_DQ13	AH38	MDA13
MAAA13	AT20	DDR0_MA14	DDR0_DQ14	AK37	MDA14
MAAA14	AT20	DDR0_MA15	DDR0_DQ15	AK40	MDA15
MAAA15	AU21	DDR0_MA16	DDR0_DQ16	AM40	MDA17
MODT_A0	AW10	DDR0_ODT0	DDR0_ODT0	AM39	MDA21
MODT_A1	AW8	DDR0_ODT1	DDR0_ODT1	AP38	MDA18
	AW9	DDR0_ODT2	DDR0_ODT2	AP39	MDA19
	AW8	DDR0_ODT3	DDR0_ODT3	AM37	MDA20
				AM38	MDA16
				AM26	MDA22
				AM25	MDA23
				AP28	MDA28
				AL26	MDA26
				AL25	MDA27
				AR26	MDA28
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LGA1150 (F,J)

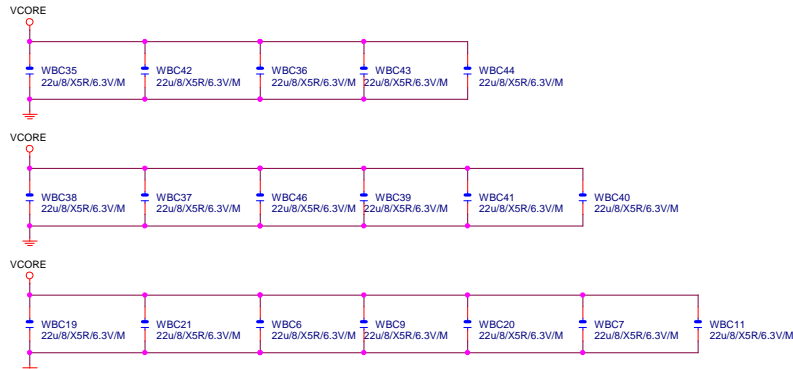


LGA1155 (G,H,I)



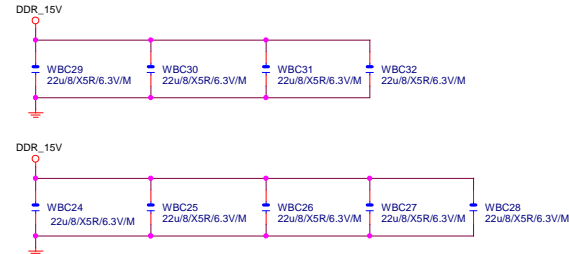
VCore CAP

(X18)



DDR CAP

(x9)

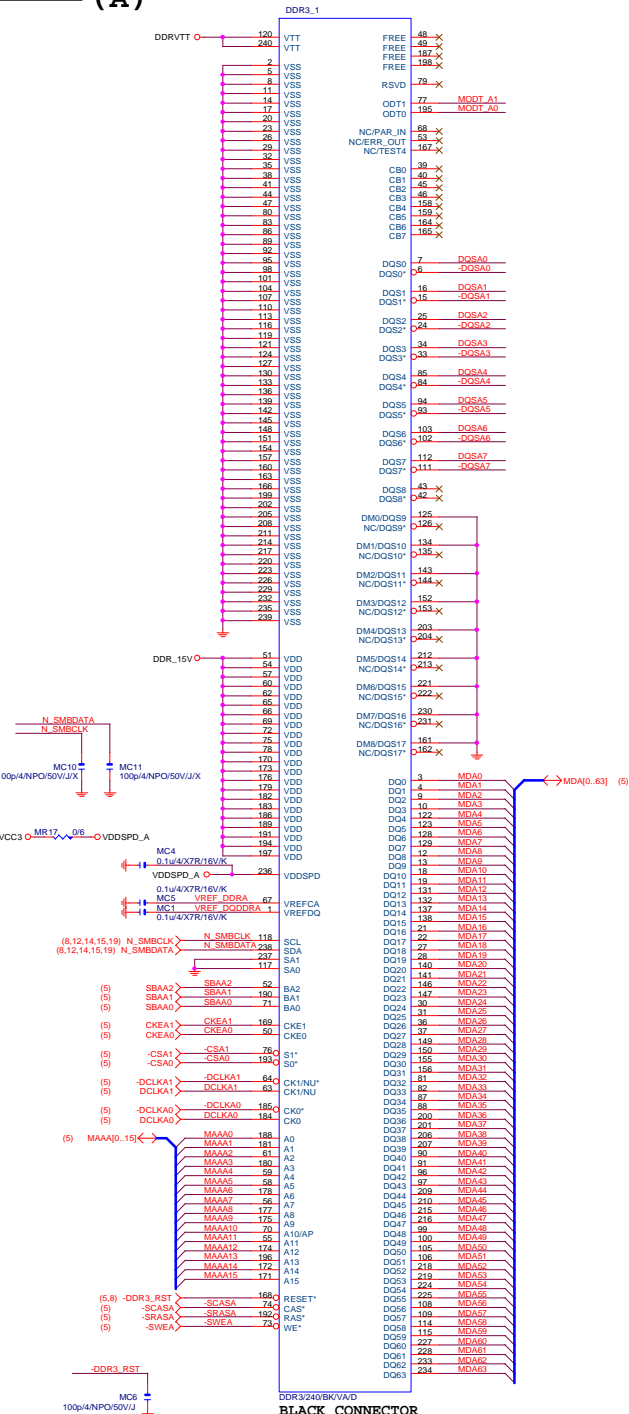


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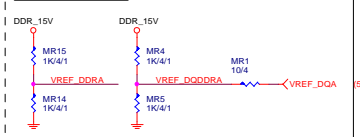
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CPU LGA1150-C			
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DDR3

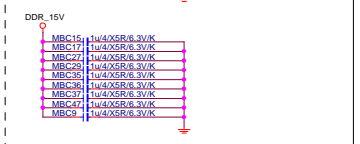
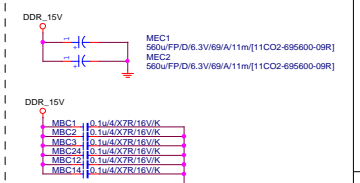
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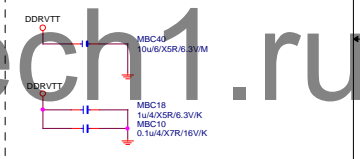
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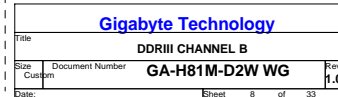


DDR15V Decouple

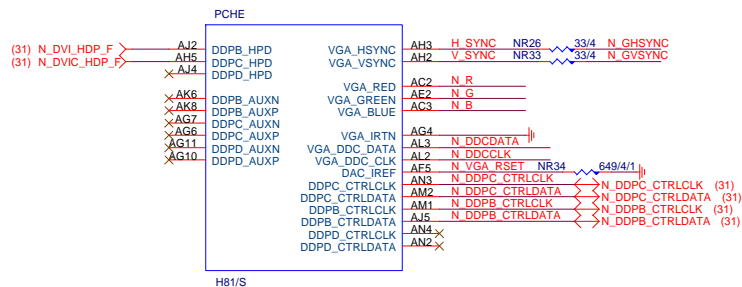


DDRVTT Decouple

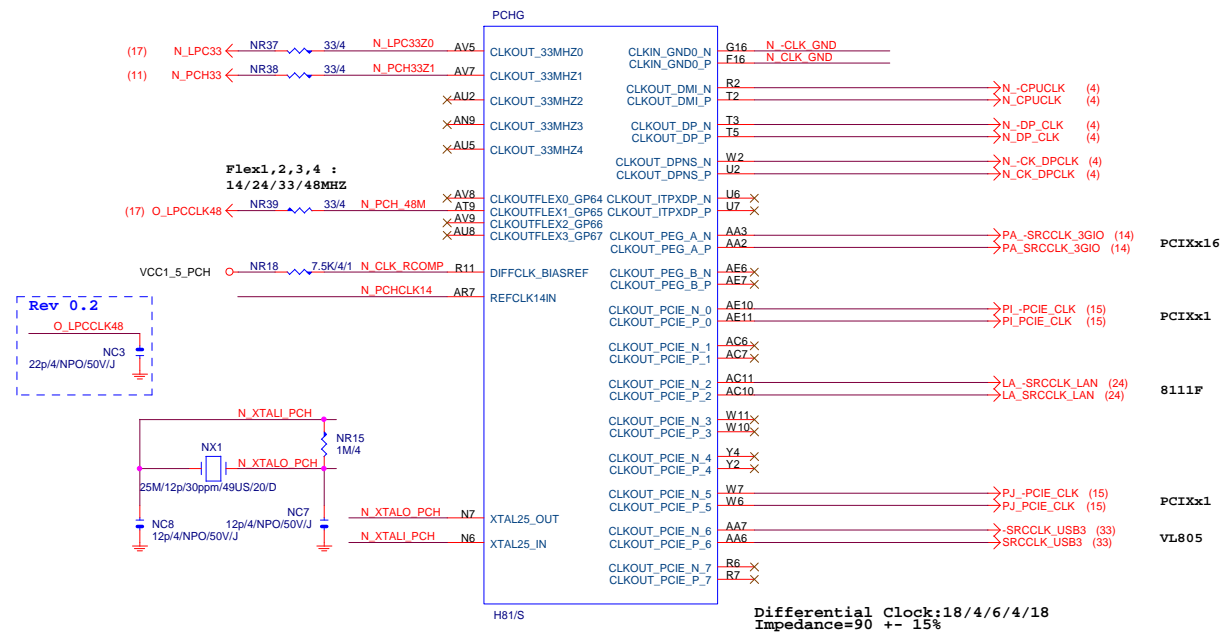




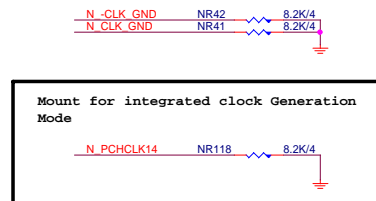
PCH (E)



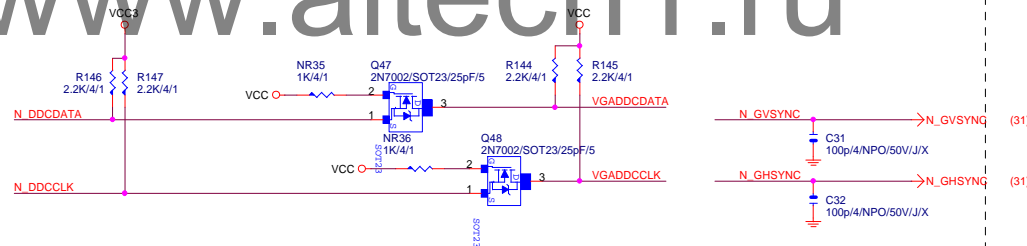
PCH (G)



PCH CLK PD



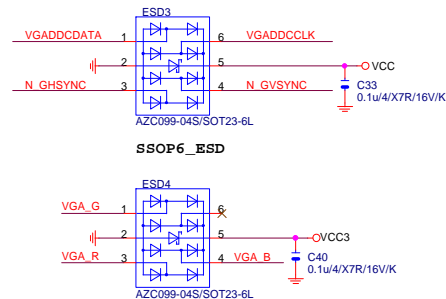
VGA DDC



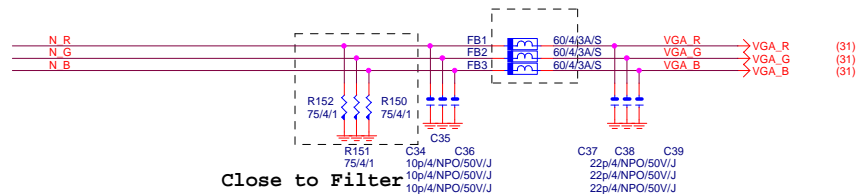
VGA CONNECTOR



VGA ESD

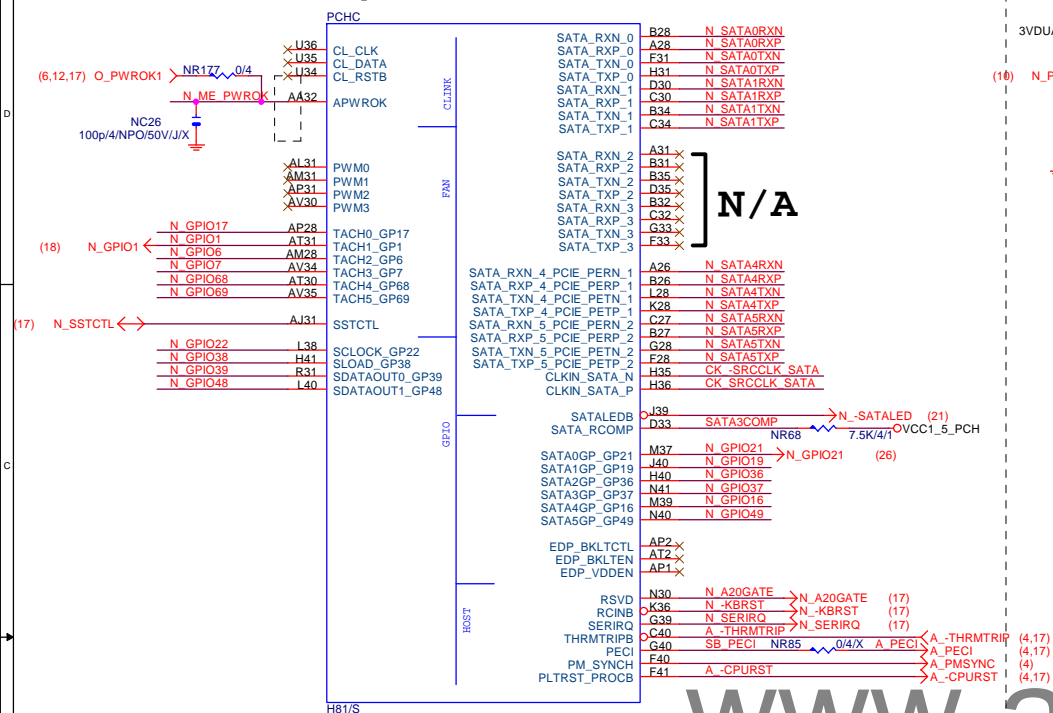


VGA DDC

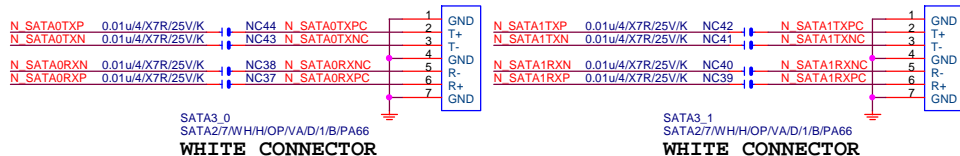


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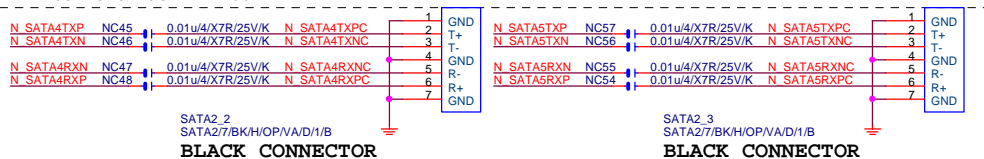
SATA3 : 20/7.5/4.5/7.5/20 (breakout min 8/4/4/4/8)
Impedance=90 +- 17.5%
SATA2 : 15/7.5/4.5/7.5/15 (breakout min 8/4/4/4/8)
Impedance=90 +- 17.5%



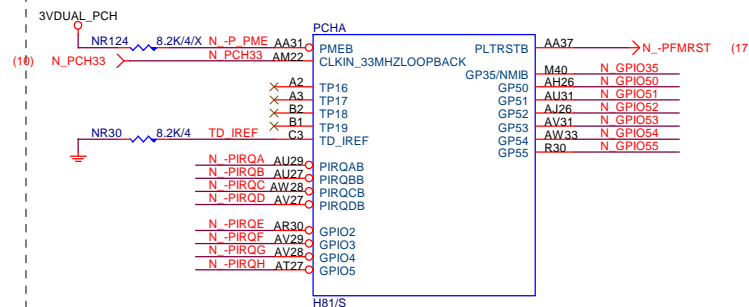
SATA CONNECTOR



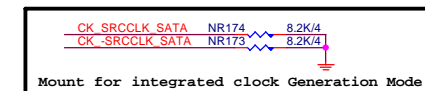
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** Z87/H87 Port 4&5 SATA3.0
** B85 Port 4&5 SATA2.0
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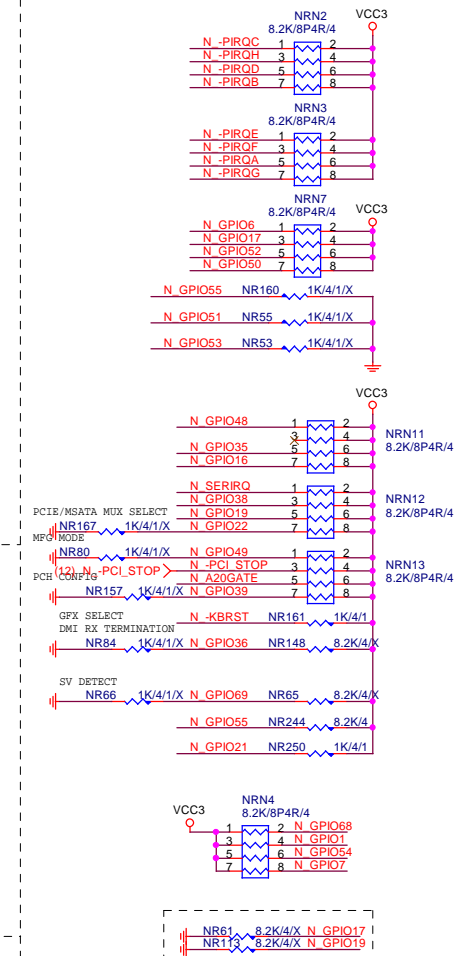
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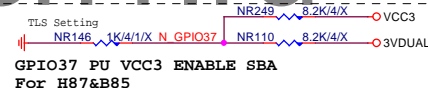
PCH	CLK	PD
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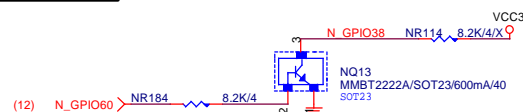
PCH	PU/PD
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ME PWROK



GPI038 Ctrl



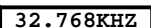
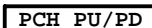
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Title			
PCH HOST , SATA, PCI			
Size	Document Number		Rev
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(D)

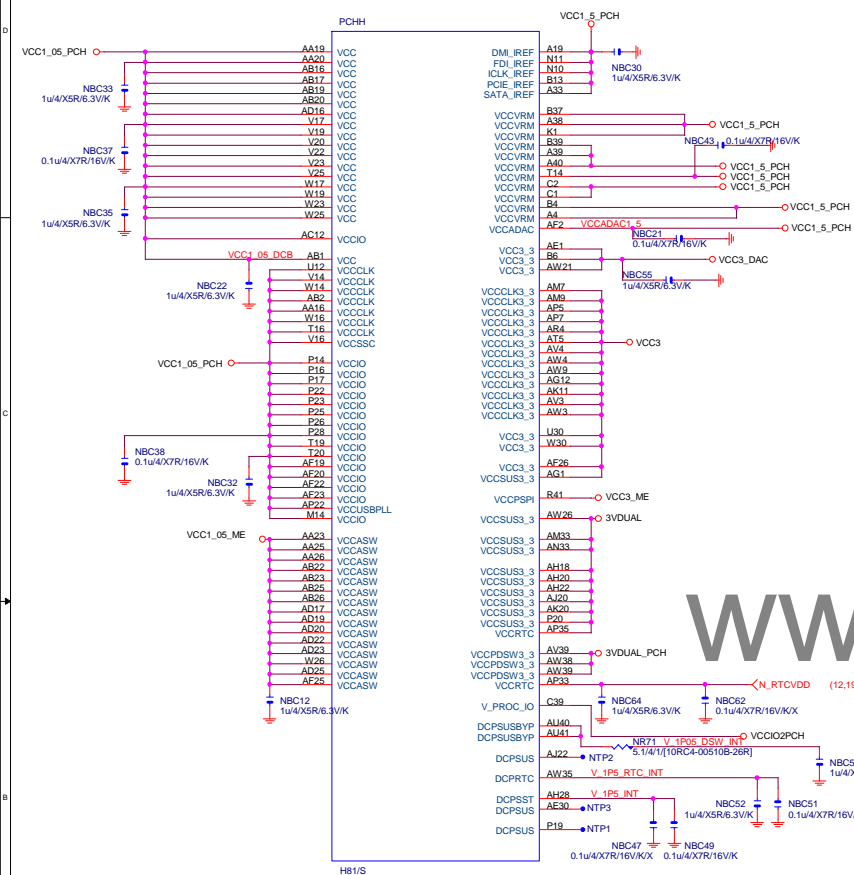


ACZ_SDOUT

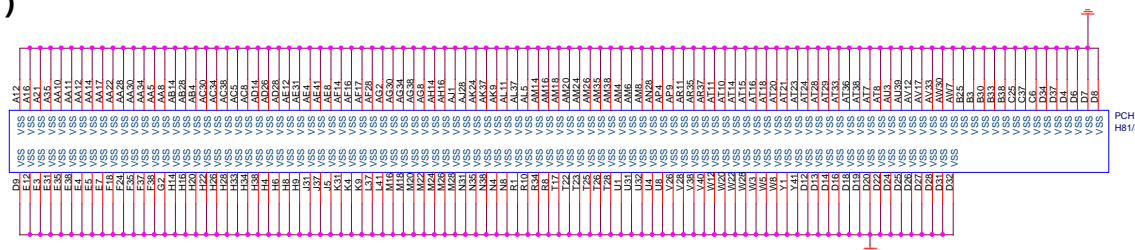


Gigabyte Technology			
Title			
PCH GPIO , CTRL , AUDIO			
Size	Document Number		Rev
Custom	GA-H81M-D2W WG		1.0
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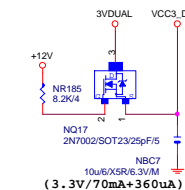
PCH (H)



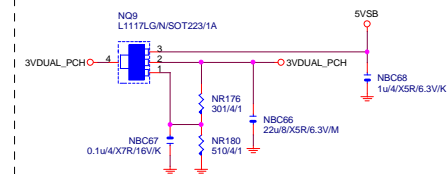
PCH (I)



VCC3_DAC



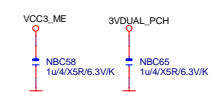
3VDUAL_PCH



SHT PWR

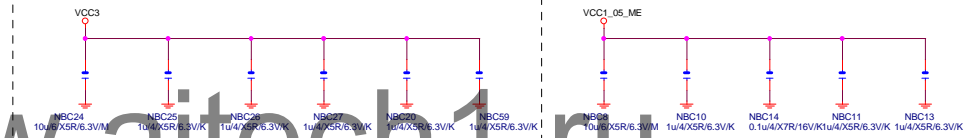


CAP



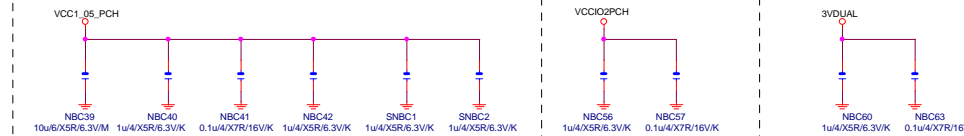
(3.3V) (X6)

(1.05V) (x5)

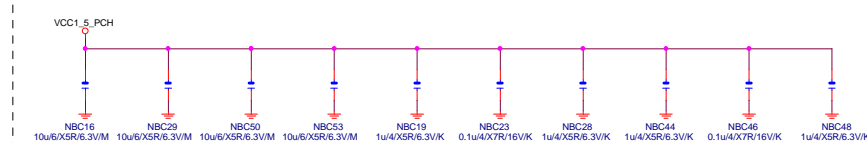


(1.05V)(x6)

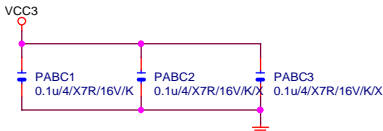
$(1.05V)(x2) + (3.3V)(x2)$



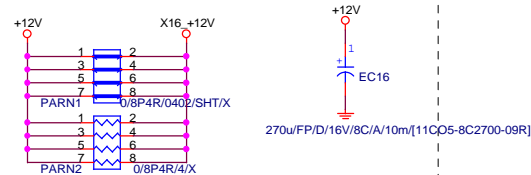
(1.05V) (x10)



PCIEX16 CAP



PCIEX16 PROTECT SHT



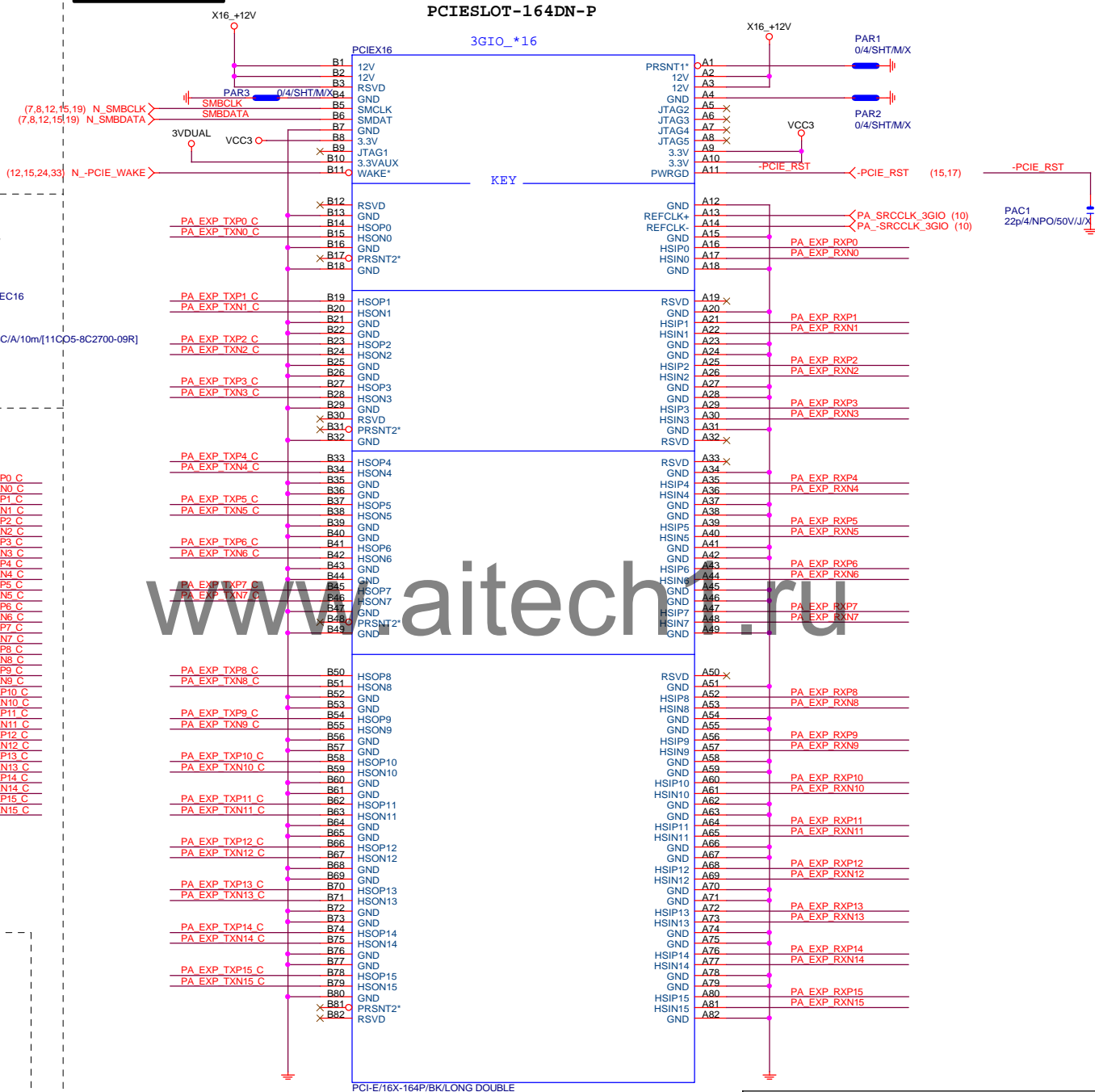
PCIEX16 AC CAP

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

PA EXP RXP0.[15] >>> PA_EXP_RXP[0..15] (4)
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)

The auxiliary reset circuit is only required for PCIe Gen3 margining and functional link training

PCIEX16 SLOT

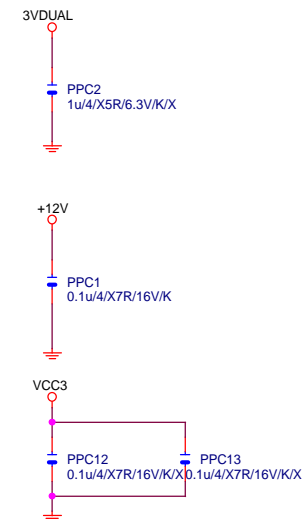
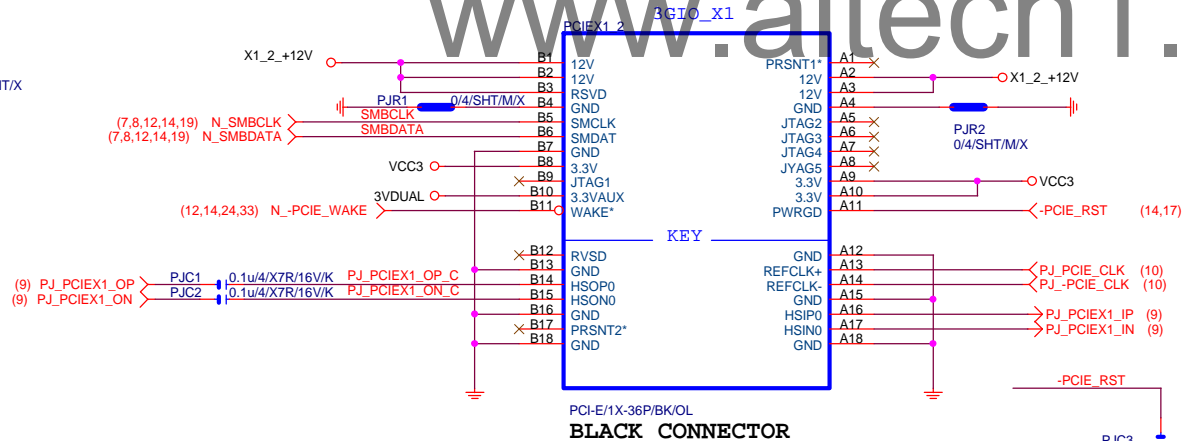
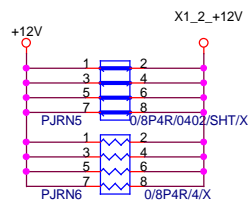
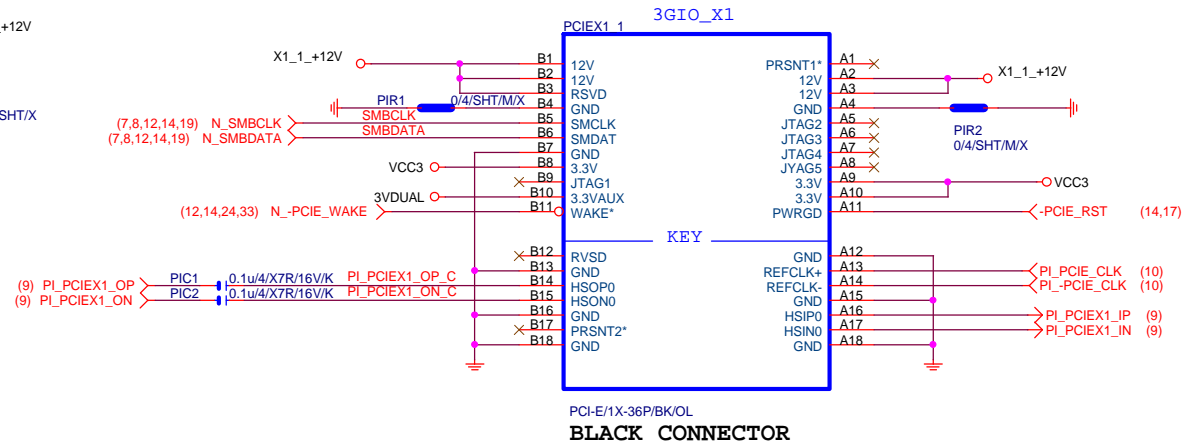
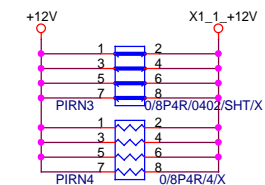


BLACK CONNECTOR

Gigabyte Technology

Title			PCI EXPRESS * 16		
Size			Document Number		
Custom			GA-H81M-D2W WG		
Date:			Rev		
Tuesday, December 31, 2013			1.01		
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PCIEX1 SLOT

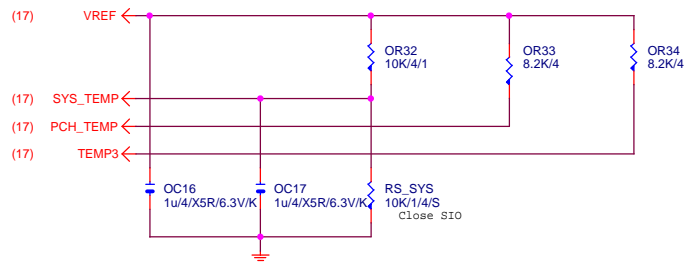


Gigabyte Technology			
PCI EXPRESS X 1 PORT			
Title	Document Number	GA-H81M-D2W WG	Rev 1.01
Size Custom	Tuesday, December 31, 2013	Sheet 15 of 33	

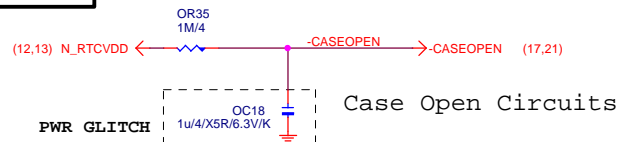
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Gigabyte Technology			
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PCI SLOT 1&2			
Size	Document Number		Rev
Custom	GA-H81M-D2W WG		1.01
Date:	Tuesday, December 31, 2013	Sheet	16 of 33

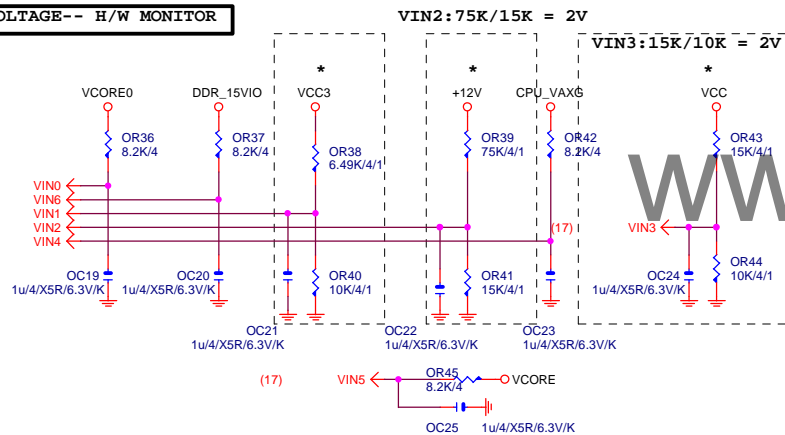
TEMP H/W MONITOR



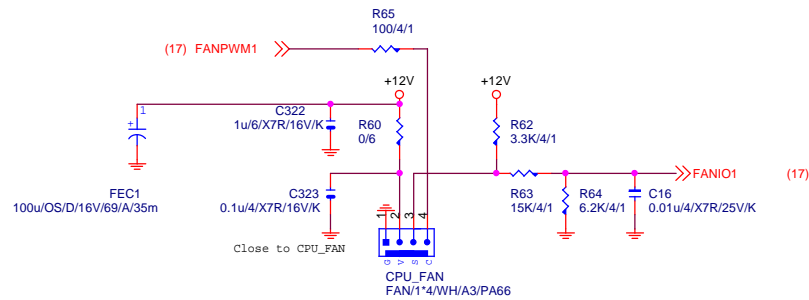
CASE OPEN



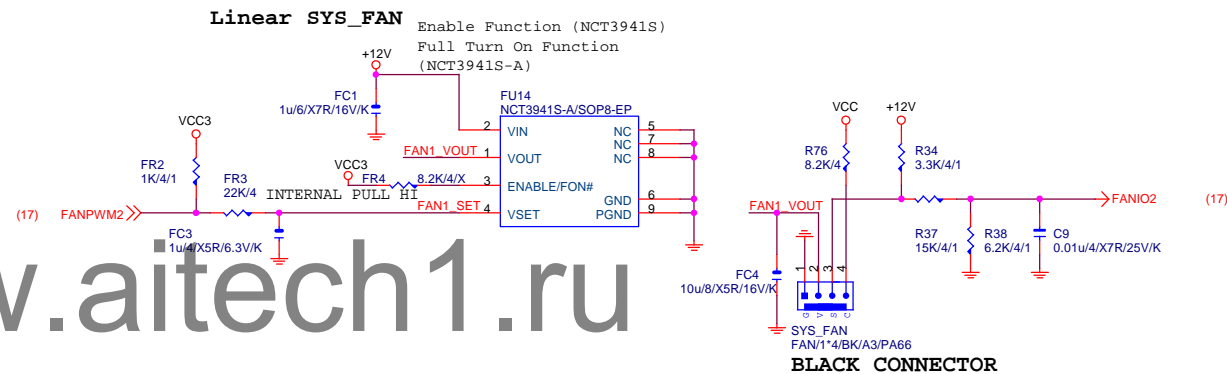
VOLTAGE-- H/W MONITOR



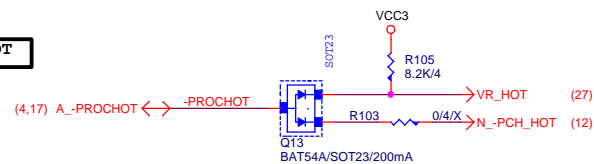
CPU SMART FAN



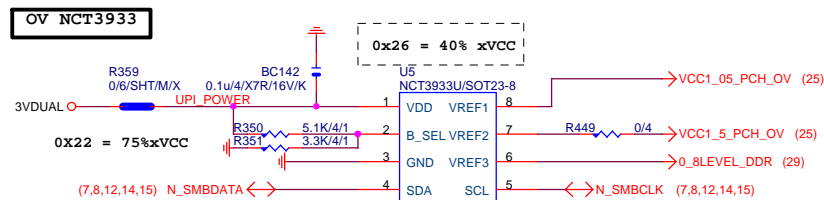
SYS SMART FAN



-PROHOT



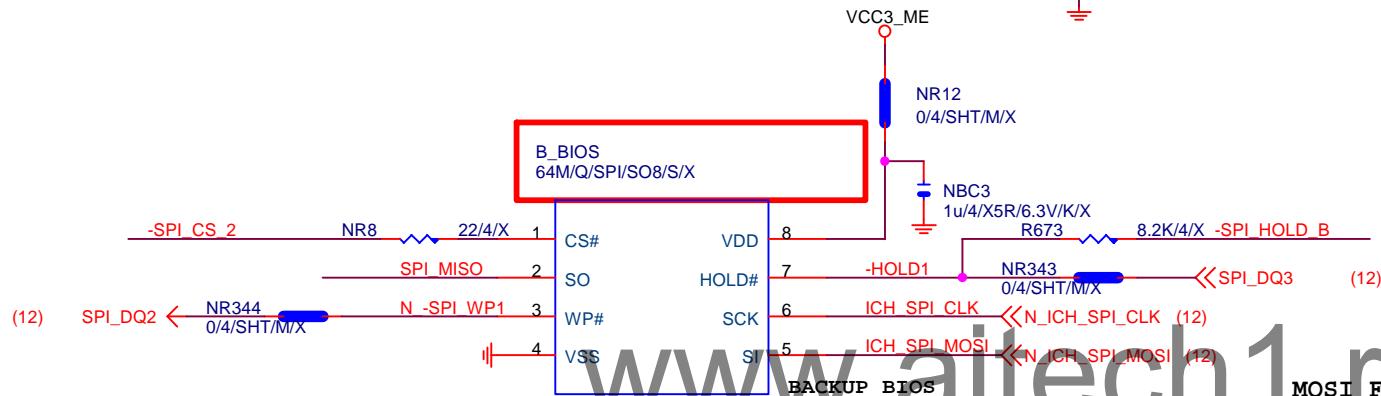
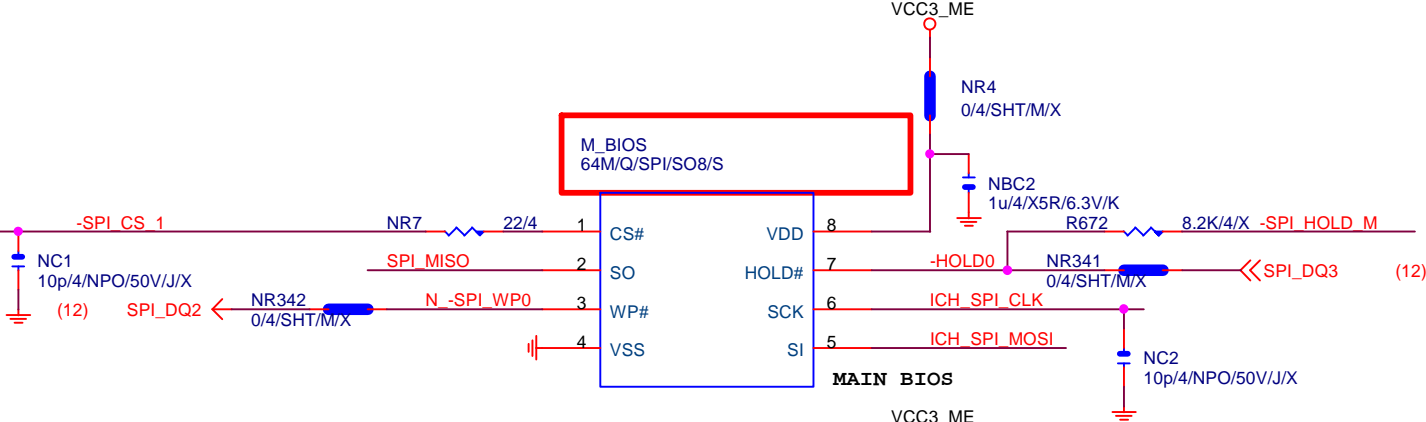
接pwm feedback pin



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

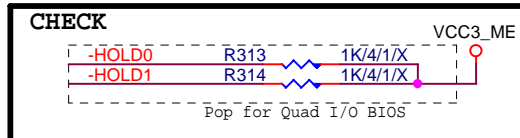
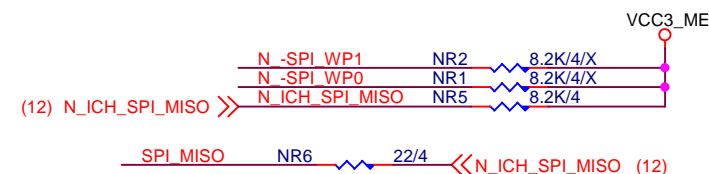
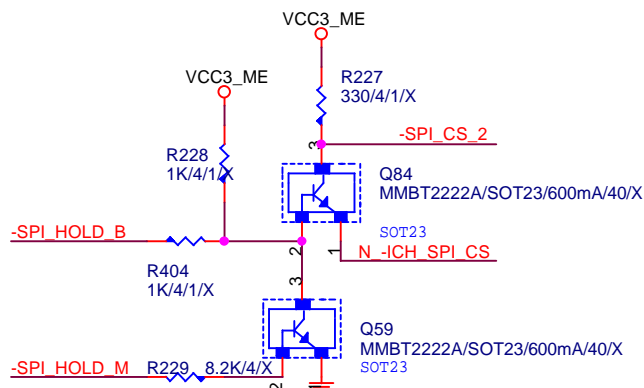
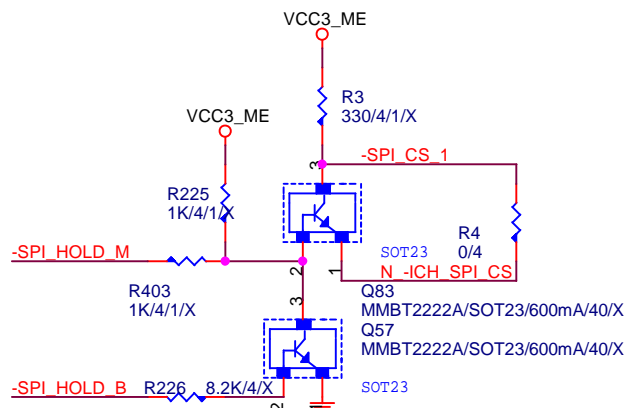
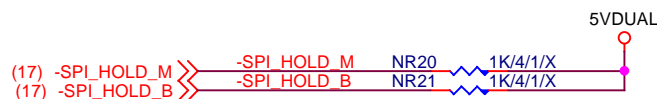
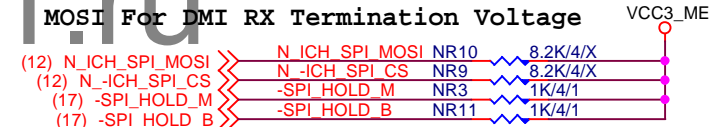
Title			
HWM,FAN CTRL,OV			
Size	Document Number	Rev	
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BOOT DEVICE	GNT0	GNT1
LPC	0	0
PCI	0	1
NAND	1	0
SPI	1	1

1 means floating
0 means PD 1K

MOSI For DMI RX Termination Voltage



Gigabyte Technology

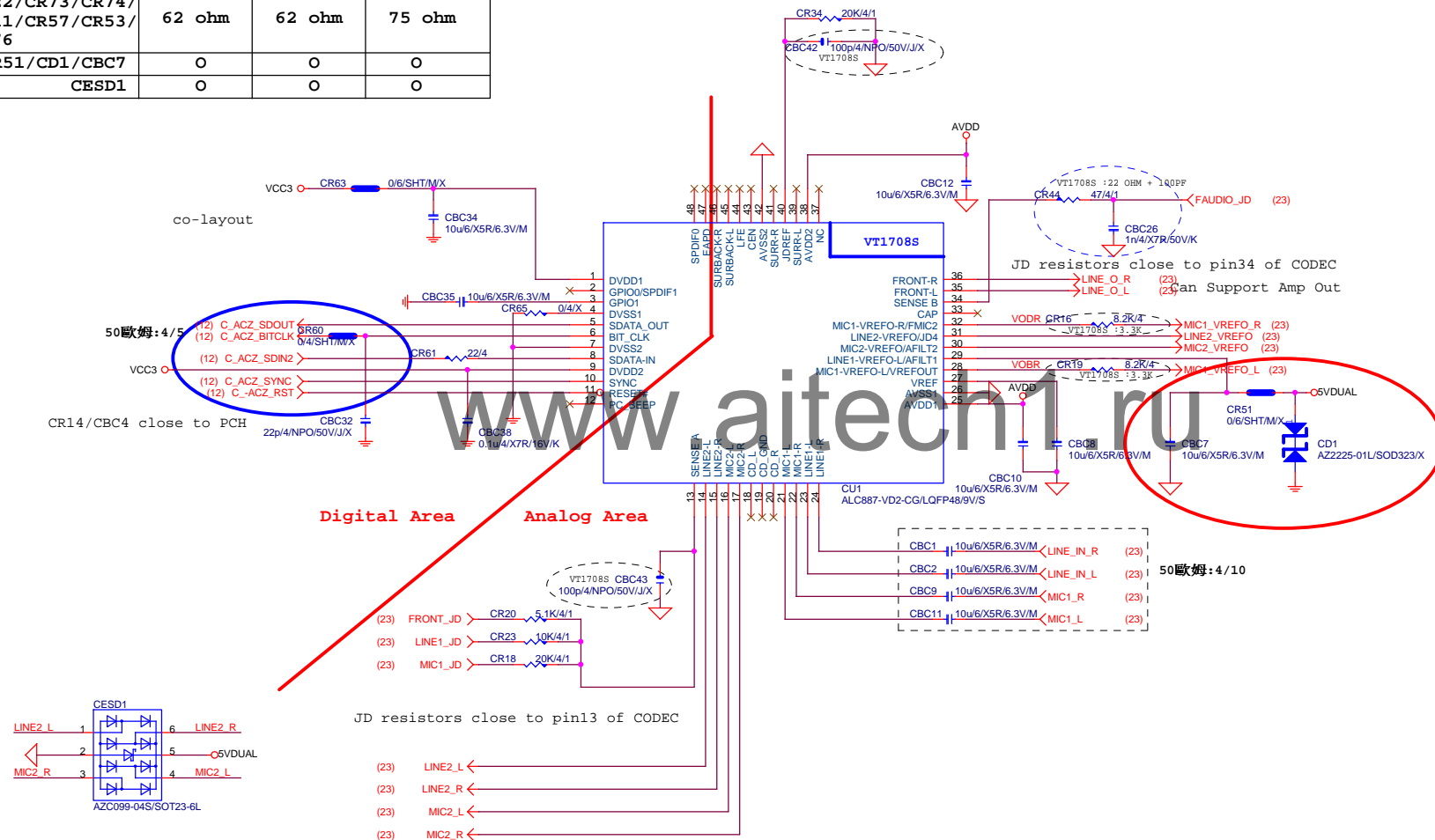
DUAL BIOS

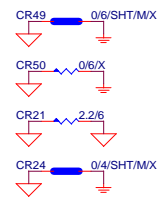
GA-H81M-D2W WG

Title	Document Number	Rev
		1.01
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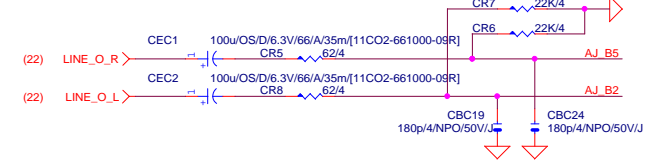
AZALIA CODEC ALC892/ALC887-VD2/VT1708-CE Colay

	ALC892	ALC887-VD2	VT1708S-CE
CR44/CBC26	47ohm+1nF	47ohm+1nF	22ohm+100P
CBC42/CBC43	X	X	100P/4
CR6/CR7/CR58/CR54/ CR67/CR68/CR69/CR70	22K/4	22K/4	10K/4/1
CR5/CR8/CR1/CR14/ CR17/CR22/CR73/CR74/ CR13/CR11/CR57/CR53/ CR75/CR76	62 ohm	62 ohm	75 ohm
CR51/CD1/CBC7	O	O	O
CESD1	O	O	O





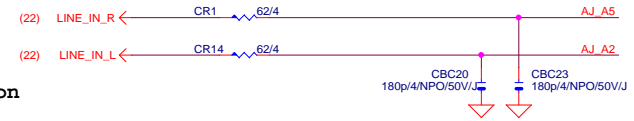
LINE-OUT



LINE-IN

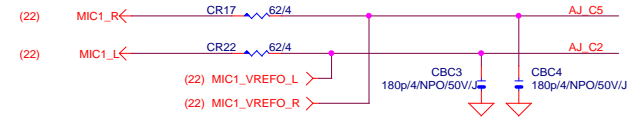
Verify MIC function
in LINE-in

Only reserved for ALC888



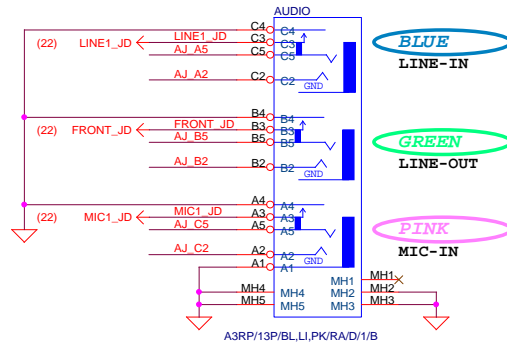
For 889A/888

MIC-IN

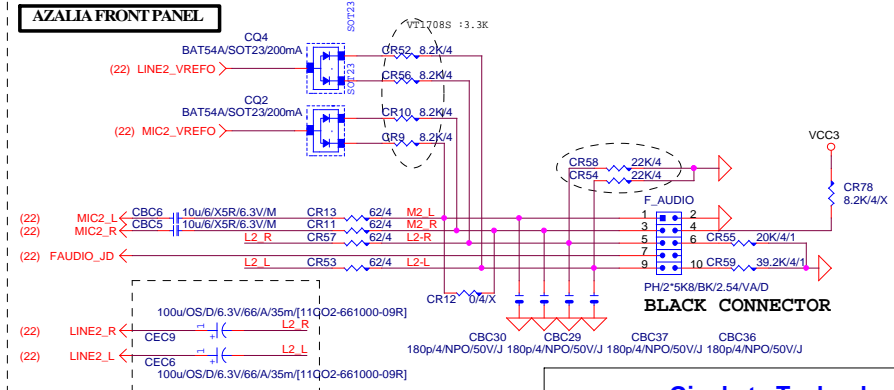


SPDIF_OUT

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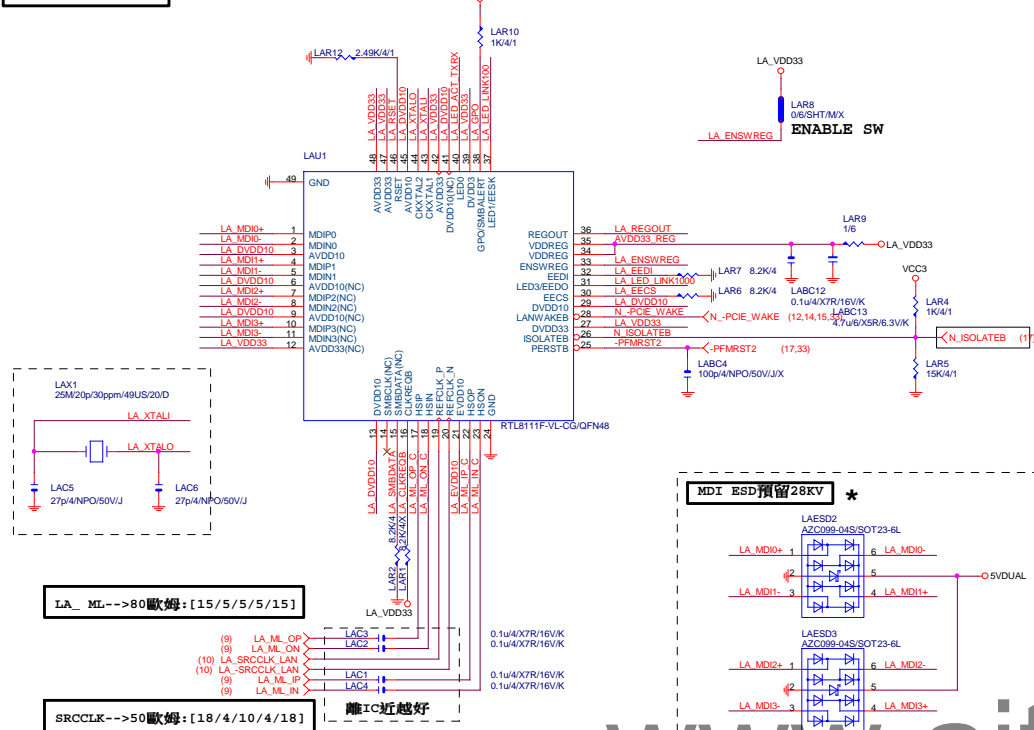
AZALIA FRONT PANEL



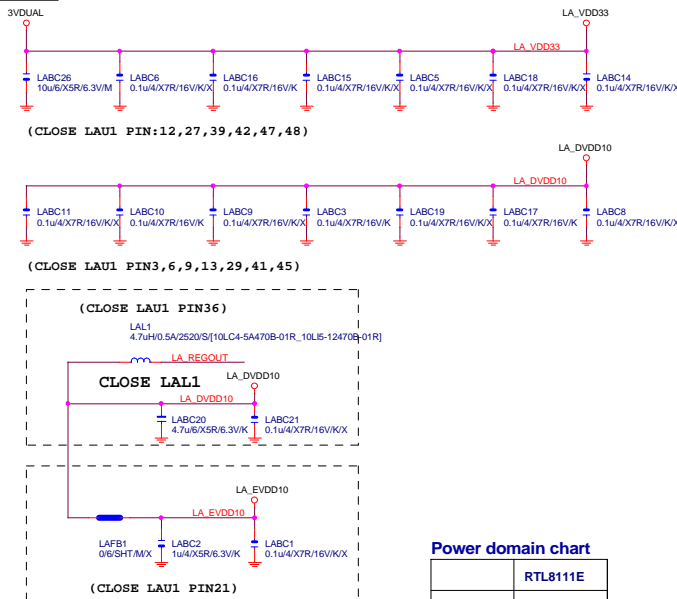
Gigabyte Technology

Title			
AUDIO JACK			
Size	Document Number	GA-H81M-D2W WG	Rev
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LAN:RTL8111F/VB/VL



LAN POWER

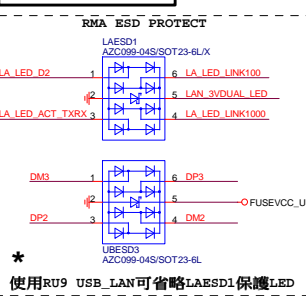


Power domain chart

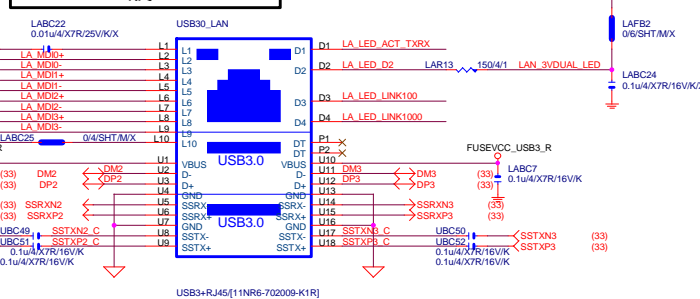
	RTL8111E
AVDD33	3.3V
DVDD33	3.3V
VDDREG	3.3V
DVDD10	1.05V

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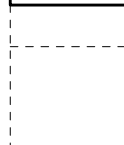
USB LAN CONNECTOR



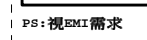
LA_MDI-->100歐姆:[20/4/8/4/20]



USB X3 POWER

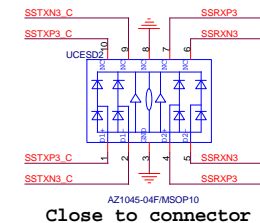
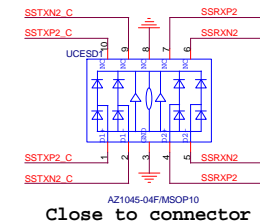
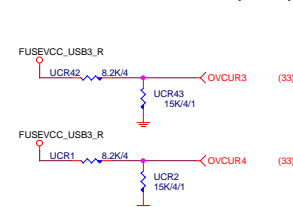


EMI SHORT PAD



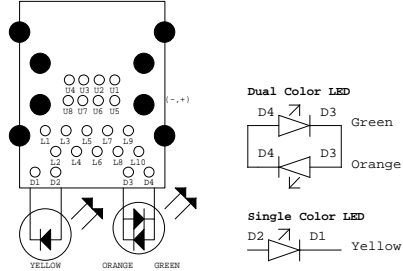
Polyswitch-1206

USB3.0 1Port - 1Fuse (3.5A)



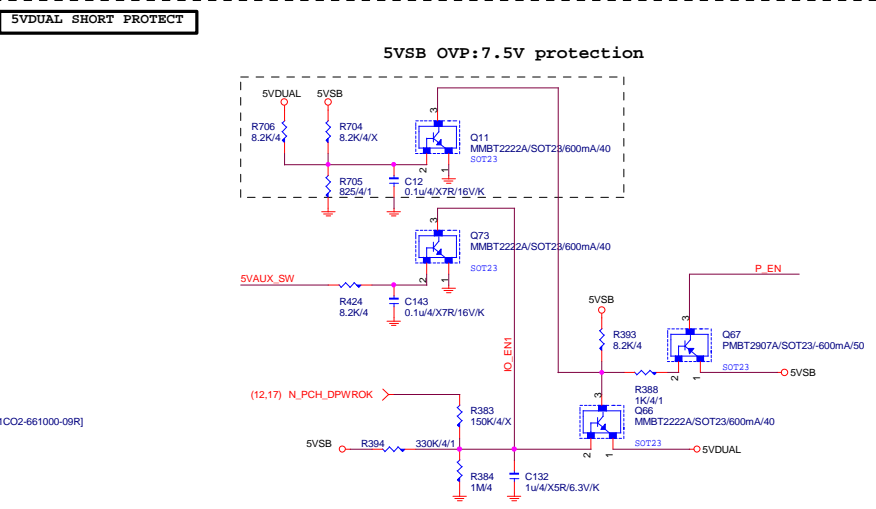
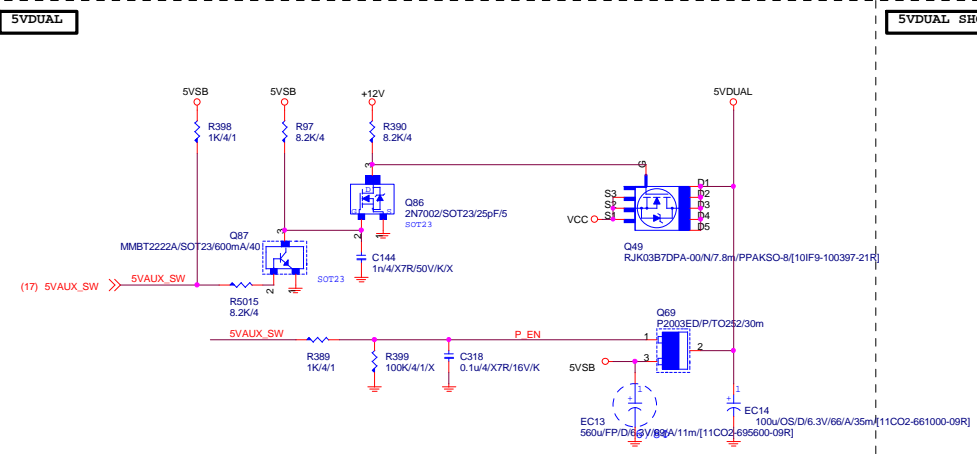
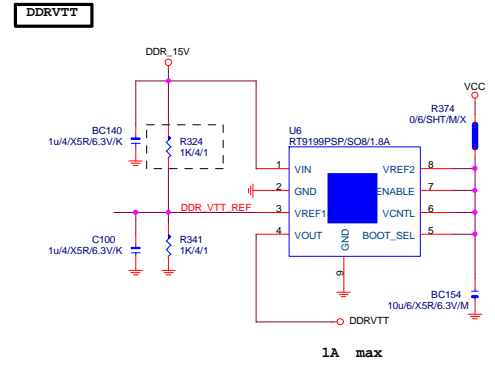
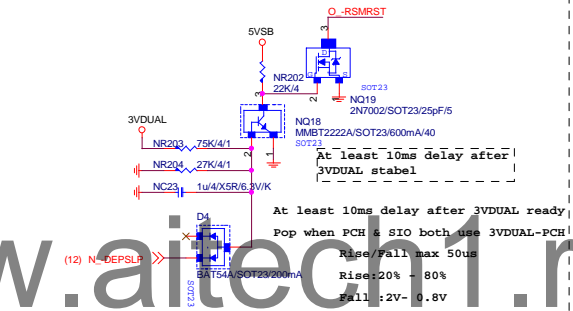
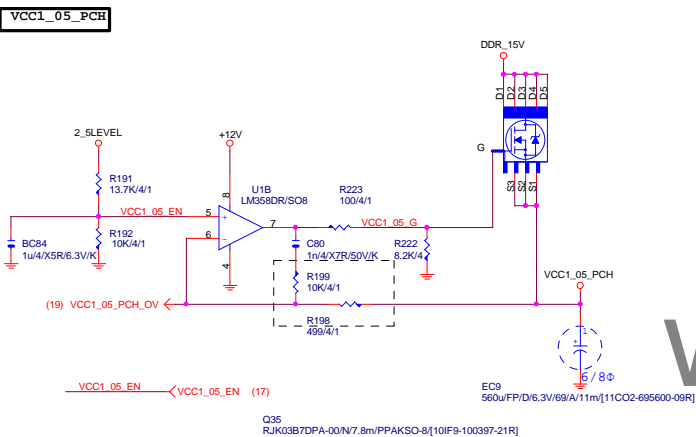
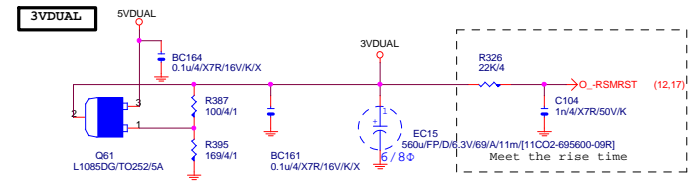
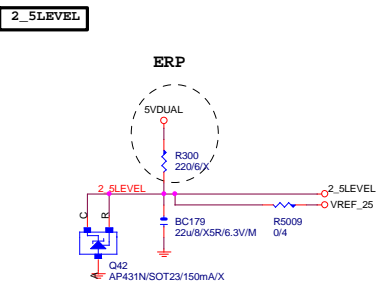
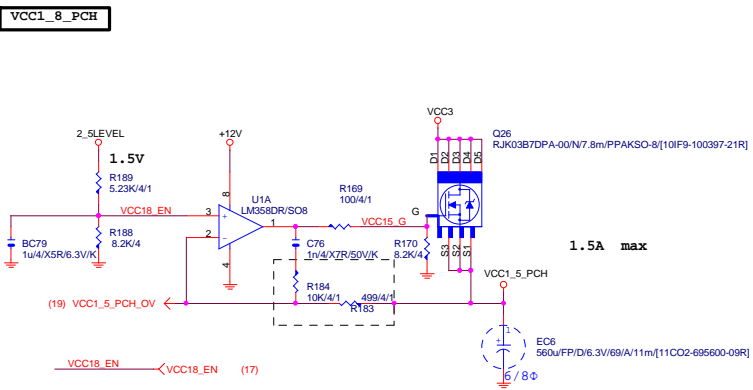
Gigabyte Technology

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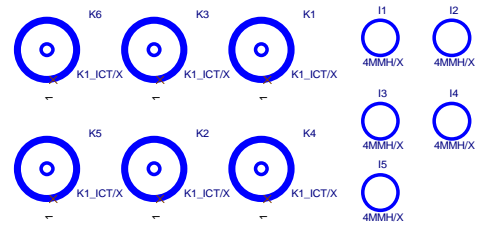
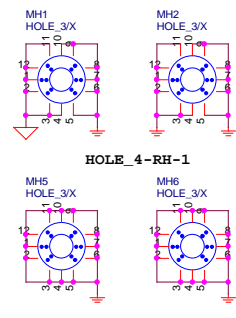
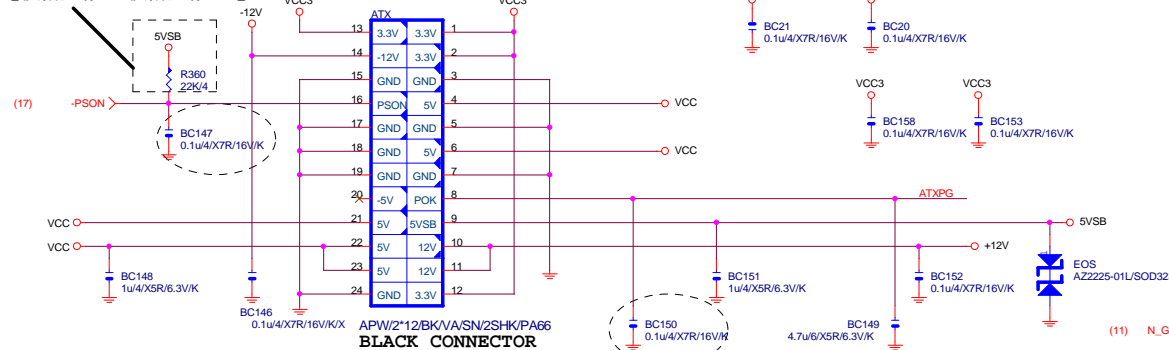
BOM NOTICE

料號	規格	廠商
11NR6-702009-96R	1G LAN (12core)	UDE(RU9 ESD+)
[LED獨立走線,可省略外加AZC099料件LAESD1]		
1.	9KV ESD BOM:	
	USB_LAN (RU9):11NR6-702009-96R	
2.	28KV ESD BOM:	
	USB_LAN (RU9):11NR6-702009-96R	
	LAESD2,LAESD3:上件AZC398-04S	



ATXX24 POWER CONNECTOR

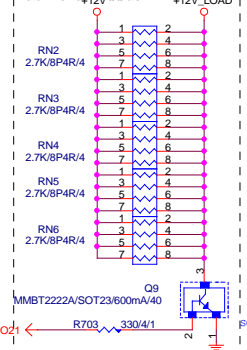
【技術通報R&D技術通報155】



To prevent the 5VSB under loading when boot

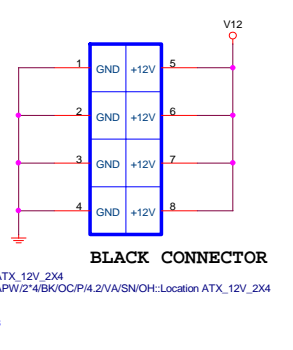
【技術通報R&D技術通報158】

To fix 12V light load abnormal issue



ATXX4 POWER CONNECTOR

To fix 12V light load abnormal issue



BLACK CONNECTOR

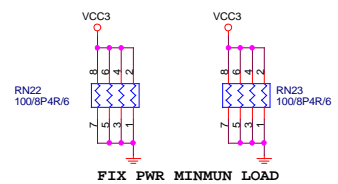
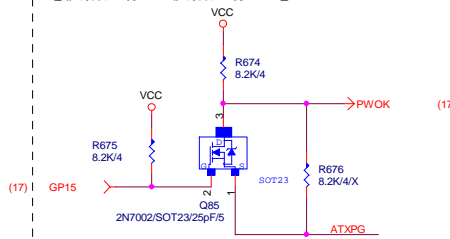
ATX_12V_2X4

APW/2*4BK/OC/P/4.2V/A/SN/OH:Location ATX_12V_2X4

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PWOK PATCH

【技術通報R&D技術通報154】



FIX PWR MINMUN LOAD

Gigabyte Technology

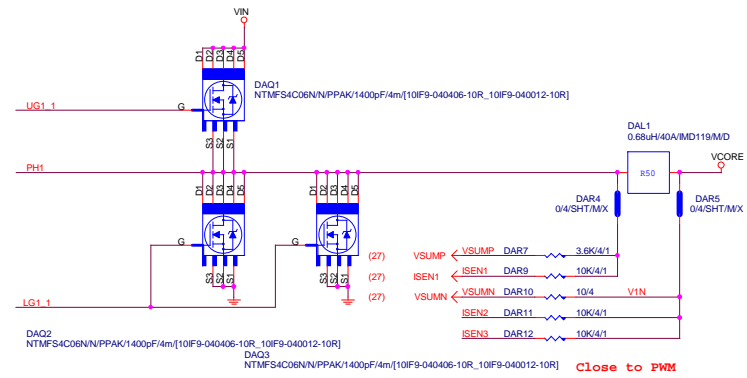
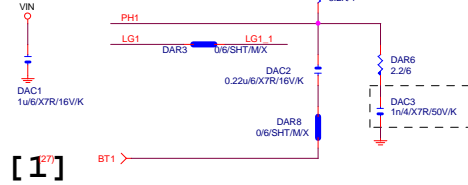
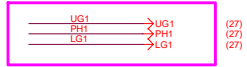
ATX CONNECTOR

GA-H81M-D2W WG

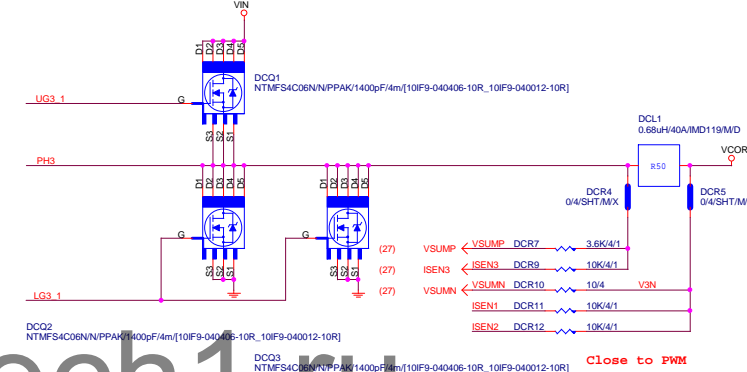
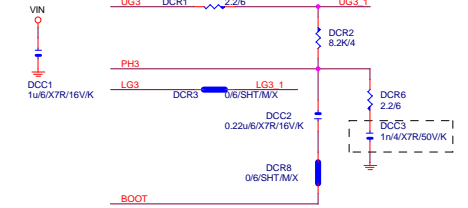
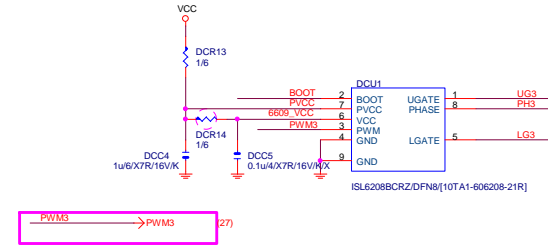
Rev 1.01

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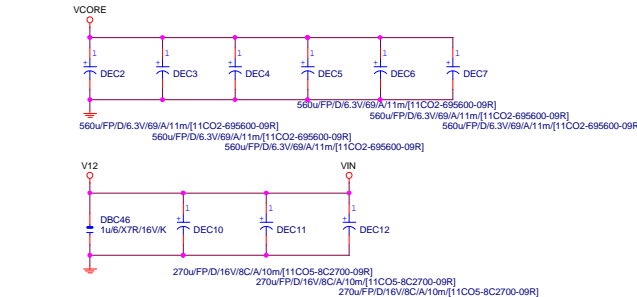
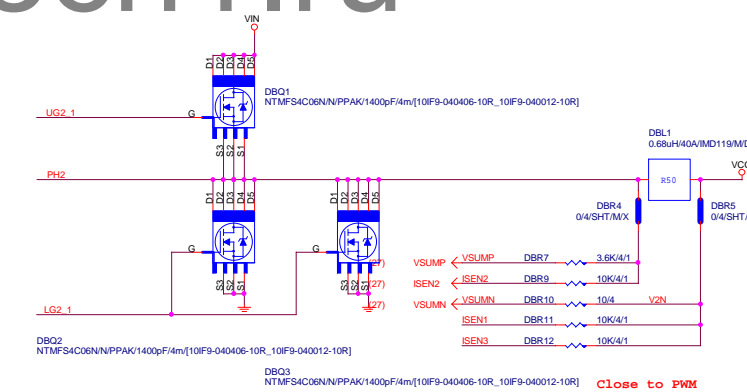
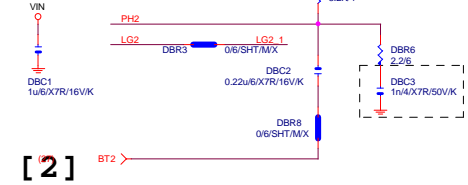
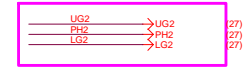
PHASE 1



PHASE 3



PHASE 2





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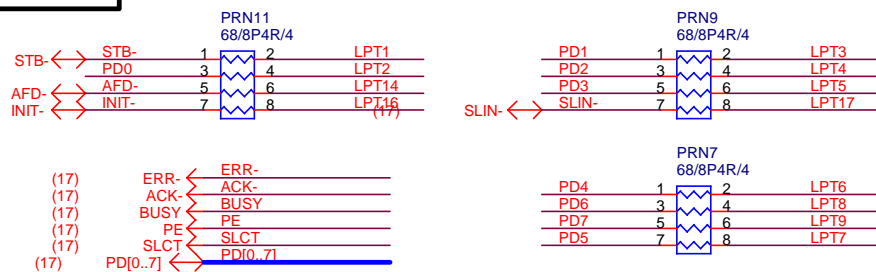
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【技術通報R&D技術通報156】
(RICHTER), (NUVOTON), (EMC)做共用
PIN7分壓阻值須做修改為100K以上電阻值

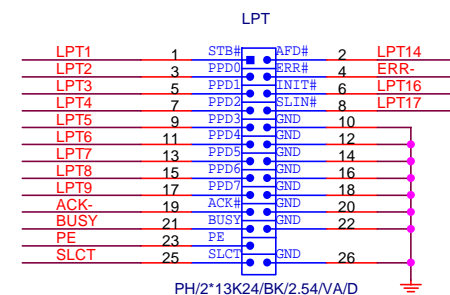
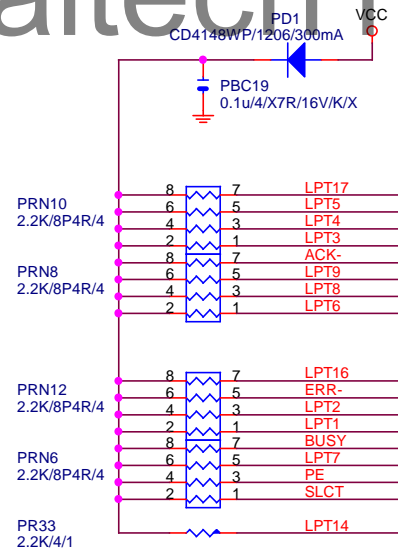
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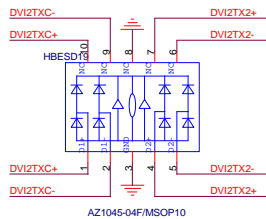
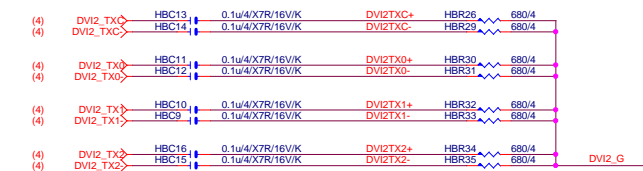


【技術通報R&D技術通報151】
33ohm Change to 68ohm

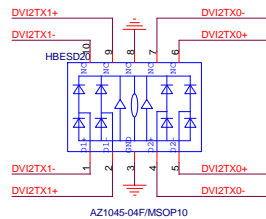
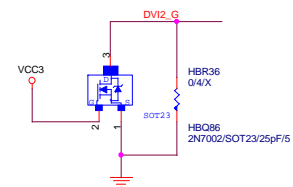


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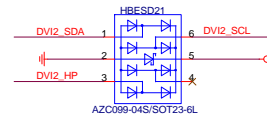
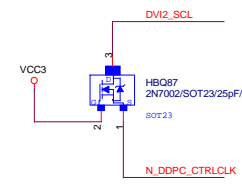
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Date:	Tuesday, December 31, 2013	Sheet	30 of 33



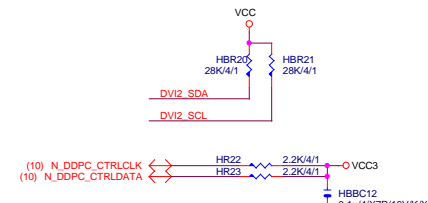
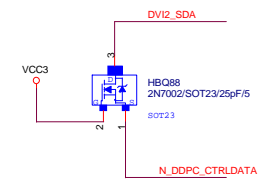
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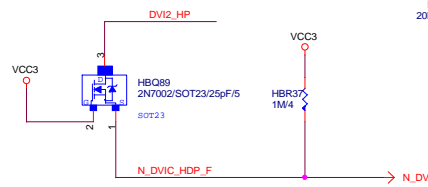
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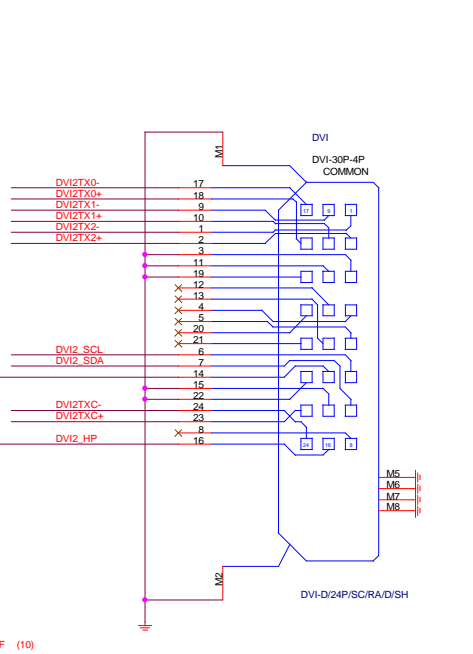
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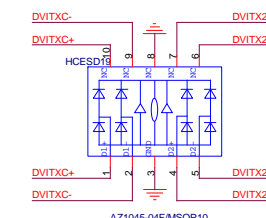
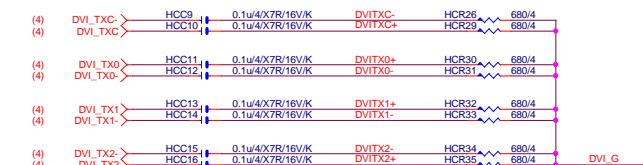
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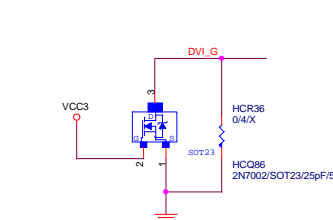
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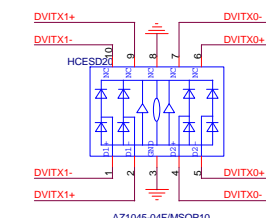
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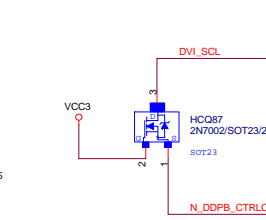
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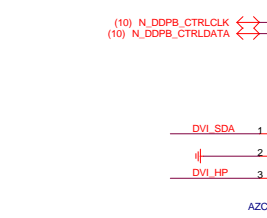
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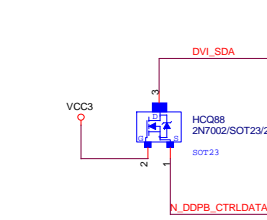
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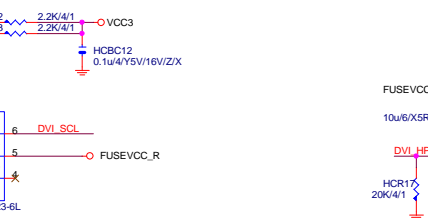
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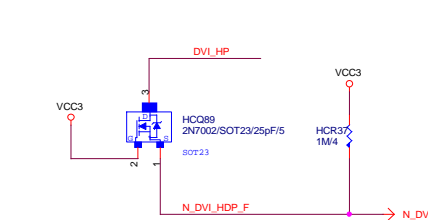
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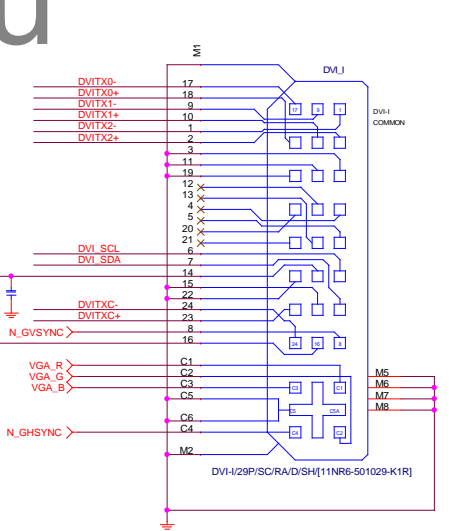
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