

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

SHEET	TITLE
28	VCORE ISL95812_2
29	RT8120_DDR POWER
30	LPT, M3 POWER
31	DVI
32	IT8892E

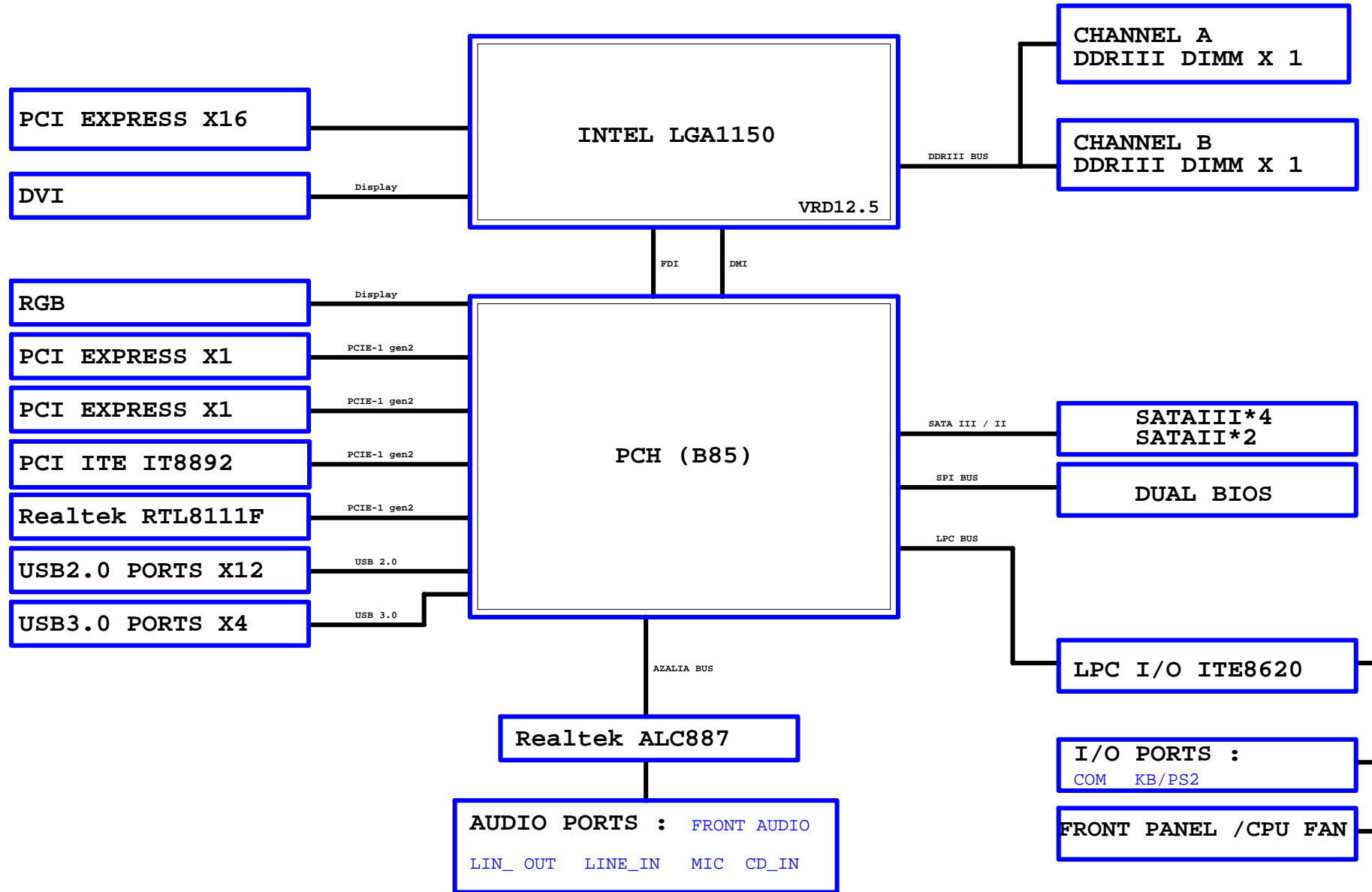
Revision 2.11

Circuit or PCB layout change

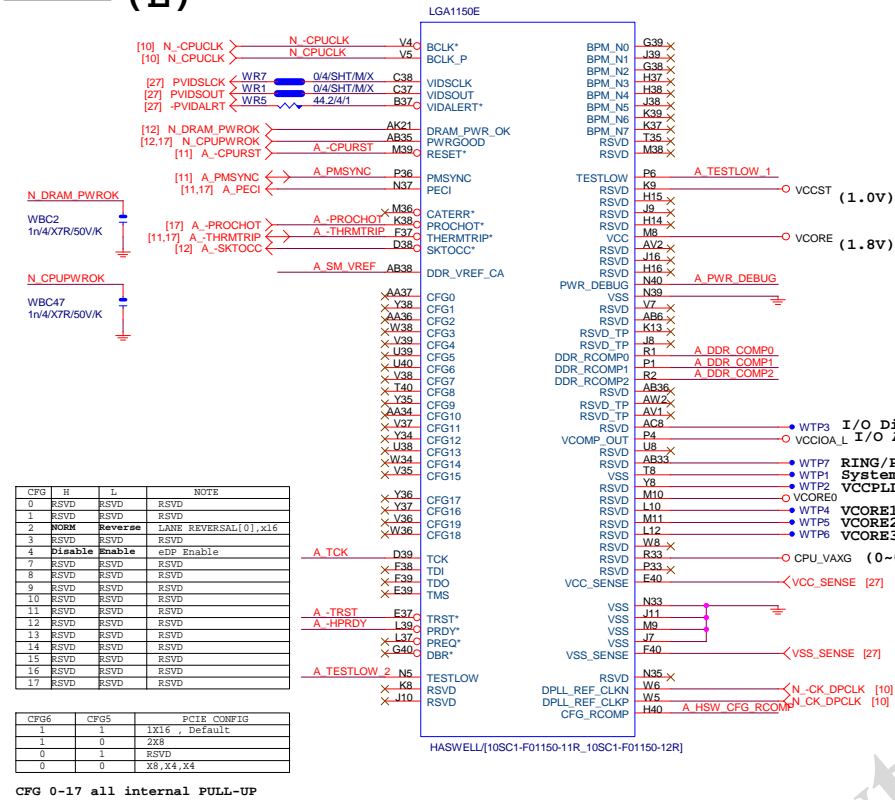
Component value change history

2014/12/01

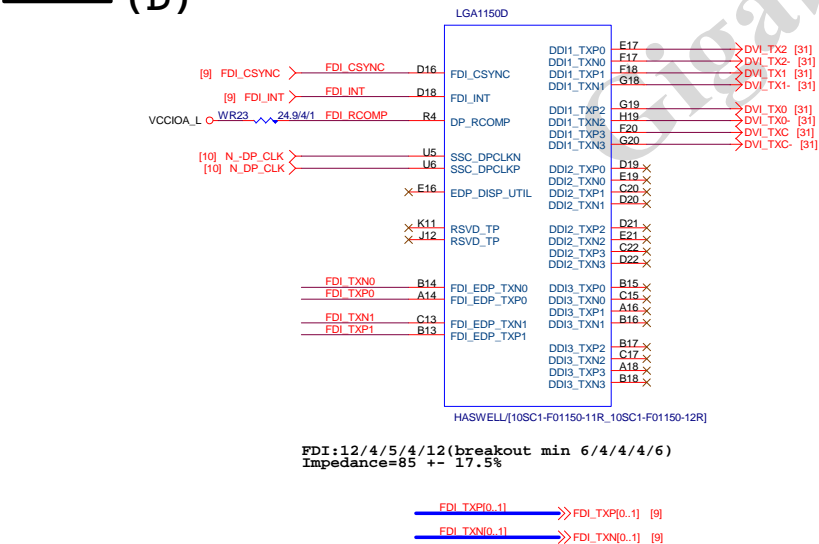
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BLOCK DIAGRAM

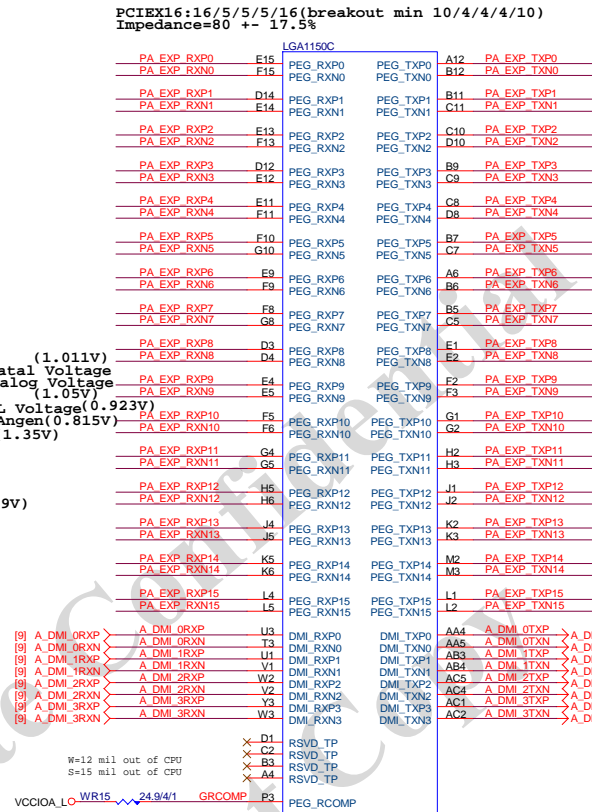
LGA1150 (E)



LGA1150 (D)



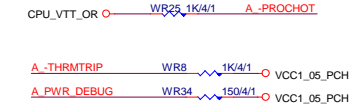
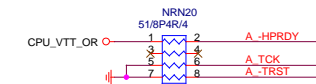
LGA1155 (C)



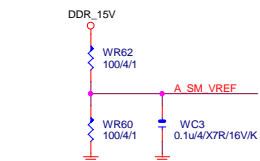
CPU SVID



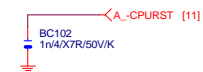
CPU PU/PD



SM REF



-CPURST



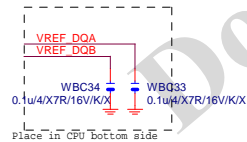
LGA1150 (A)

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MAAA0	AU13	DDR0_MA1	DDR0_D01	AD39	MDA1
MAAA1	AV16	DDR0_MA2	DDR0_D02	AF38	MDA2
MAAA2	AU16	DDR0_MA3	DDR0_D03	AF39	MDA3
MAAA3	AW17	DDR0_MA4	DDR0_D04	AD37	MDA4
MAAA4	AW18	DDR0_MA5	DDR0_D05	AD40	MDA5
MAAA5	AW17	DDR0_MA6	DDR0_D06	AE37	MDA6
MAAA6	AT18	DDR0_MA7	DDR0_D07	AF40	MDA7
MAAA7	AU18	DDR0_MA8	DDR0_D08	AH40	MDA9
MAAA8	AT19	DDR0_MA9	DDR0_D09	AH39	MDA13
MAAA9	AW11	DDR0_MA10	DDR0_D10	AK38	MDA10
MAAA10	AW19	DDR0_MA11	DDR0_D11	AK39	MDA11
MAAA11	AU19	DDR0_MA12	DDR0_D12	AH37	MDA12
MAAA12	AY10	DDR0_MA13	DDR0_D13	AH38	MDA14
MAAA13	AT20	DDR0_MA14	DDR0_D14	AK37	MDA14
MAAA14	AU21	DDR0_MA15	DDR0_D15	AK40	MDA15
MAAA15			DDR0_D16	AM40	MDA17
MODT_A0	AW10	DDR0_ODT0	DDR0_D17	AM39	MDA21
MODT_A1	AY8	DDR0_ODT1	DDR0_D18	AP38	MDA18
	AW9	DDR0_ODT2	DDR0_D19	AP39	MDA19
	AW8	DDR0_ODT3	DDR0_D20	AM37	MDA20
			DDR0_D21	AM38	MDA16
			DDR0_D22	AP37	MDA22
			DDR0_D23	AP40	MDA23
			DDR0_D24	AV37	MDA25
			DDR0_D25	AW37	MDA29
			DDR0_D26	AU35	MDA26
			DDR0_D27	AT37	MDA27
			DDR0_D28	AT37	MDA28
			DDR0_D29	AU37	MDA24
			DDR0_D30	AT35	MDA30
			DDR0_D31	AW35	MDA31
			DDR0_D32	AY6	MDA33
			DDR0_D33	AU6	MDA37
			DDR0_D34	AV4	MDA34
			DDR0_D35	AU4	MDA35
			DDR0_D36	AW6	MDA36
			DDR0_D37	AW6	MDA32
			DDR0_D38	AW4	MDA38
			DDR0_D39	AY4	MDA39
			DDR0_D40	AR1	MDA41
			DDR0_D41	AR4	MDA45
			DDR0_D42	AN3	MDA42
			DDR0_D43	AN4	MDA43
			DDR0_D44	AR2	MDA44
			DDR0_D45	AR3	MDA40
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			DDR0_D48	AL1	MDA49
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			DDR0_D51	AJ4	MDA51
			DDR0_D52	AL2	MDA52
			DDR0_D53	AJ2	MDA48
			DDR0_D54	AJ1	MDA55
			DDR0_D55	AG1	MDA57
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			DDR0_D57	AE3	MDA58
			DDR0_D58	AE4	MDA59
			DDR0_D59	AG2	MDA60
			DDR0_D60	AG3	MDA56
			DDR0_D61	AE2	MDA62
			DDR0_D62	AE1	MDA63
			DDR0_D63	AE39	DQSA0
			DDR0_D64	AJ39	DQSA1
			DDR0_D65	AN39	DQSA2
			DDR0_D66	AV36	DQSA3
			DDR0_D67	AV5	DQSA4
			DDR0_D68	AP3	DQSA5
			DDR0_D69	AK3	DQSA6
			DDR0_D70	AF3	DQSA7
			DDR0_D71	AV32	DQSA8
			DDR0_D72	AE38	DQSA9
			DDR0_D73	AJ38	DQSA1
			DDR0_D74	AN38	DQSA2
			DDR0_D75	AJ36	DQSA3
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			DDR0_D77	AP2	DQSA5
			DDR0_D78	AK2	DQSA6
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HASWELL[10SC1-F01150-11R_10SC1-F01150-12R]

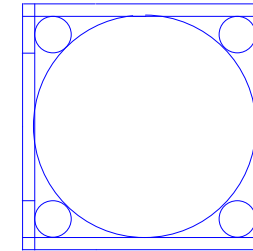
LGA1150 (B)

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MAAB0	AL19	DDR1_MA1	DDR1_D01	AE35	MDB1
MAAB1	AK23	DDR1_MA2	DDR1_D02	AG35	MDB2
MAAB2	AM23	DDR1_MA3	DDR1_D03	AH35	MDB3
MAAB3	AP23	DDR1_MA4	DDR1_D04	AD34	MDB4
MAAB4	AL23	DDR1_MA5	DDR1_D05	AD35	MDB5
MAAB5	AY24	DDR1_MA6	DDR1_D06	AG34	MDB6
MAAB6	AY25	DDR1_MA7	DDR1_D07	AH34	MDB7
MAAB7	AU26	DDR1_MA8	DDR1_D08	AL34	MDB8
MAAB8	AW25	DDR1_MA9	DDR1_D09	AL35	MDB9
MAAB9	AP18	DDR1_MA10	DDR1_D10	AK31	MDB10
MAAB10	AK38	DDR1_MA11	DDR1_D11	AK31	MDB11
MAAB11	AY26	DDR1_MA12	DDR1_D12	AK34	MDB12
MAAB12	AR15	DDR1_MA13	DDR1_D13	AK35	MDB13
MAAB13	AV27	DDR1_MA14	DDR1_D14	AK32	MDB14
MAAB14	AY28	DDR1_MA15	DDR1_D15	AL32	MDB15
MODT_B0	AM17	DDR1_ODT0	DDR1_D16	AP34	MDB17
MODT_B1	AL16	DDR1_ODT1	DDR1_D17	AP34	MDB21
	AM16	DDR1_ODT2	DDR1_D18	AK31	MDB19
	AK15	DDR1_ODT3	DDR1_D19	AP31	MDB23
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			DDR1_D22	AN32	MDB18
			DDR1_D23	AP32	MDB22
			DDR1_D24	AM29	MDB25
			DDR1_D25	AM28	MDB28
			DDR1_D26	AR29	MDB27
			DDR1_D27	AR28	MDB30
			DDR1_D28	AL28	MDB29
			DDR1_D29	AP29	MDB26
			DDR1_D30	AP28	MDB31
			DDR1_D31	AR12	MDB32
			DDR1_D32	AL12	MDB33
			DDR1_D33	AL13	MDB34
			DDR1_D34	AL12	MDB35
			DDR1_D35	AR13	MDB36
			DDR1_D36	AP13	MDB37
			DDR1_D37	AM13	MDB38
			DDR1_D38	AM12	MDB39
			DDR1_D39	AR9	MDB45
			DDR1_D40	AP9	MDB41
			DDR1_D41	AR6	MDB47
			DDR1_D42	AP6	MDB43
			DDR1_D43	AR10	MDB44
			DDR1_D44	AP10	MDB40
			DDR1_D45	AR7	MDB46
			DDR1_D46	AP7	MDB42
			DDR1_D47	AM9	MDB52
			DDR1_D48	AL9	MDB53
			DDR1_D49	AL6	MDB50
			DDR1_D50	AL7	MDB55
			DDR1_D51	AM10	MDB48
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			DDR1_D53	AM6	MDB54
			DDR1_D54	AM7	MDB51
			DDR1_D55	AH6	MDB61
			DDR1_D56	AH7	MDB60
			DDR1_D57	AE6	MDB59
			DDR1_D58	AE7	MDB63
			DDR1_D59	AJ6	MDB56
			DDR1_D60	AJ7	MDB57
			DDR1_D61	AG6	MDB58
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			DDR1_D63	AF35	DQSB0
			DDR1_D64	AL33	DQSB1
			DDR1_D65	AN28	DQSB2
			DDR1_D66	AN23	DQSB3
			DDR1_D67	AN12	DQSB4
			DDR1_D68	AP8	DQSB5
			DDR1_D69	AL8	DQSB6
			DDR1_D70	AG7	DQSB7
			DDR1_D71	AN25	DQSB8
			DDR1_D72	AE34	DQSB9
			DDR1_D73	AK33	DQSB1
			DDR1_D74	AN33	DQSB2
			DDR1_D75	AN29	DQSB3
			DDR1_D76	AL13	DQSB4
			DDR1_D77	AR8	DQSB5
			DDR1_D78	AM8	DQSB6
			DDR1_D79	AG6	DQSB7
			DDR1_D80	AN26	DQSB8



HASWELL[10SC1-F01150-11R_10SC1-F01150-12R]

LGA1150 (CR)

CR
CPU RETENTION/X

LGA1150_P



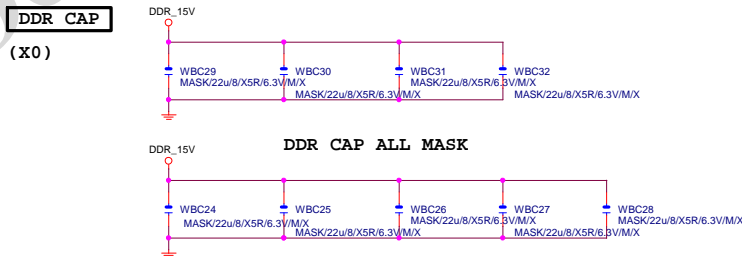
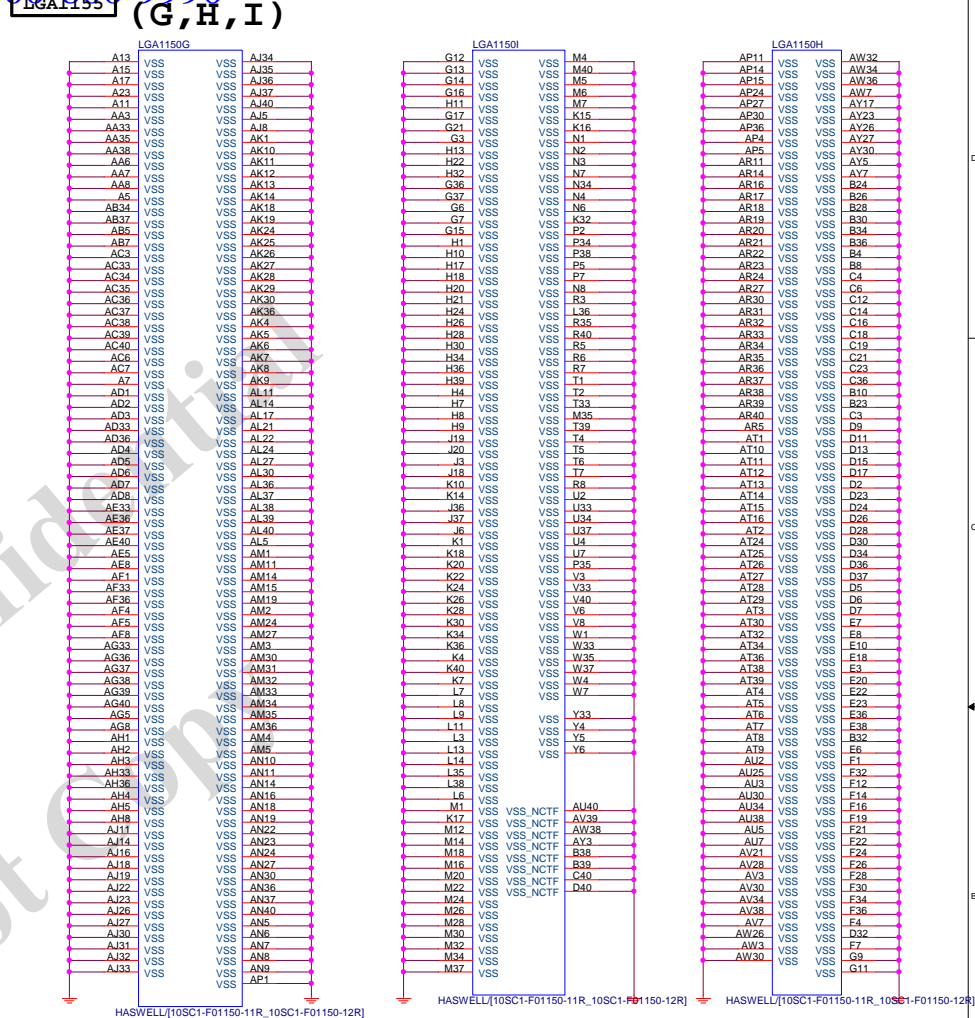
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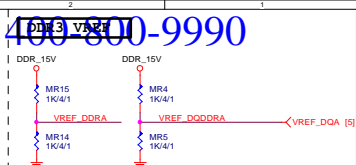
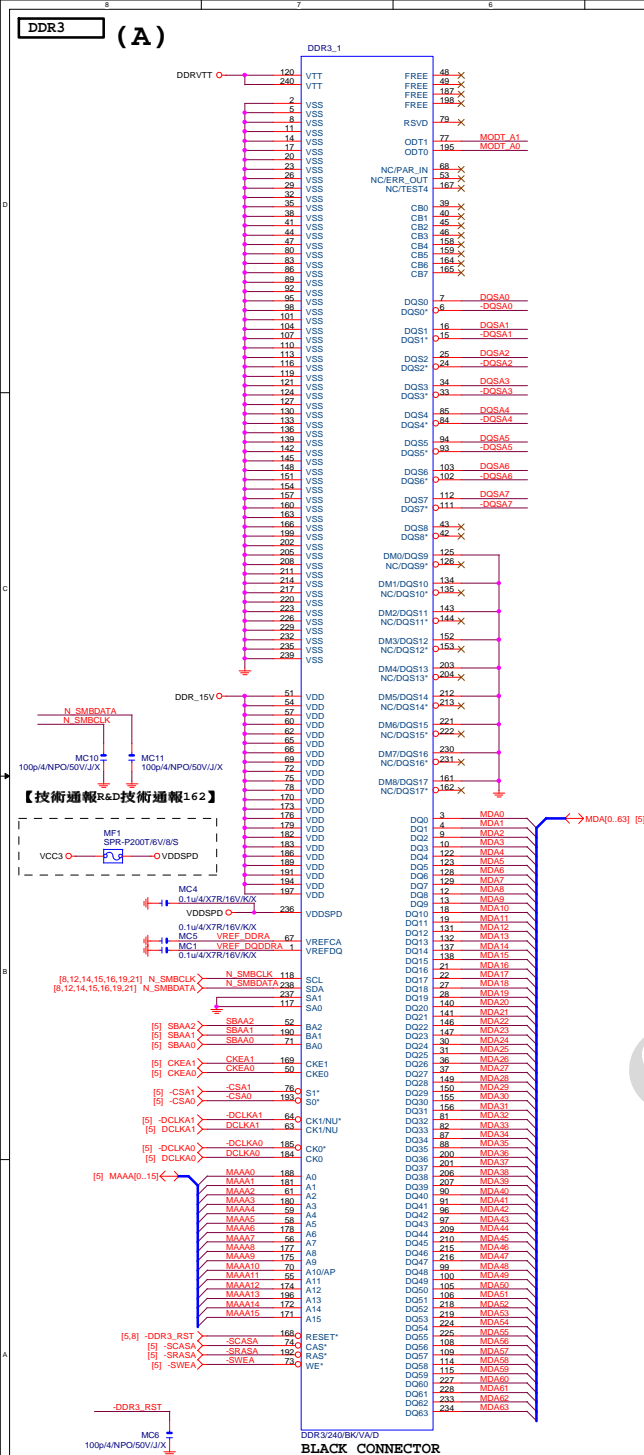
DDR BUS

[7] MODT_A[0..1]	MODT_A0..1
[8] MODT_B[0..1]	MODT_B0..1
[7] MDA[0..63]	MDA0..63
[8] MDB[0..63]	MDB0..63
[7] DQSA[0..7]	DQSA0..7
[7] DQSA[0..7]	DQSA0..7
[7] MAA[0..15]	MAA0..15
[8] MAB[0..15]	MAB0..15
[8] DQSB[0..7]	DQSB0..7
[8] DQSB[0..7]	DQSB0..7

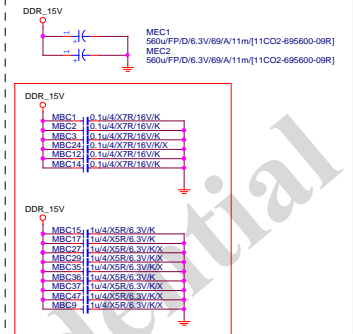
Gigabyte Technology

Title				
CPU LGA1150-B				
Size	Document Number			Rev
Custom	GA-B85M-D3V-SI			2.1
Date:	Tuesday, December 02, 2014		Sheet	5 of 32

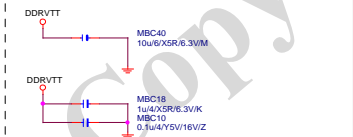


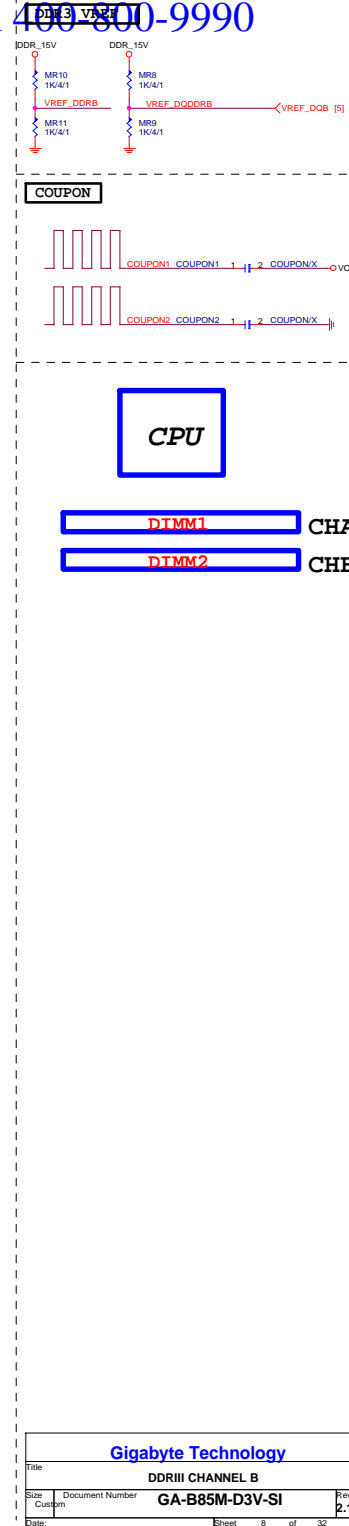
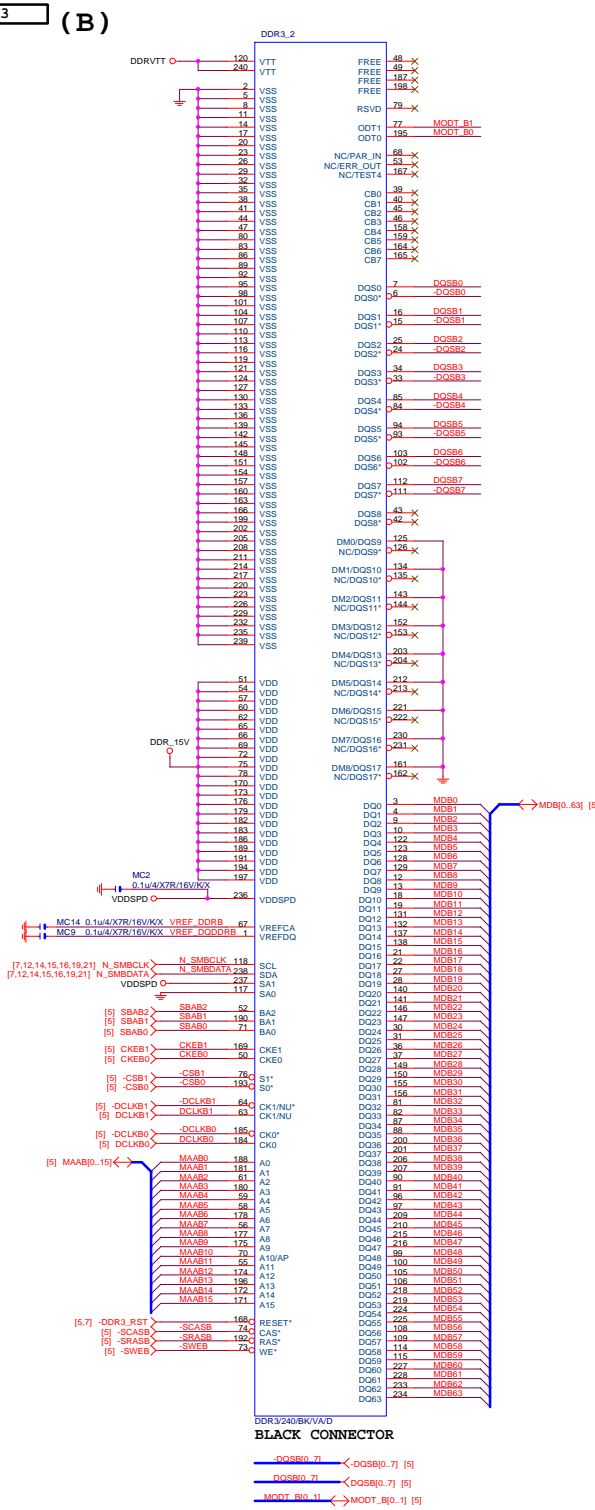


DDR15V Decouple

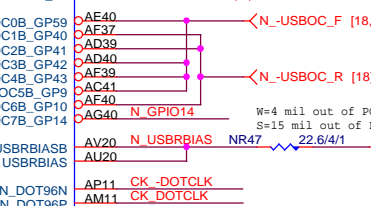
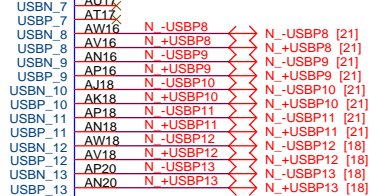
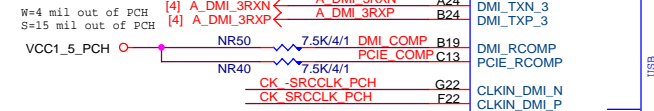
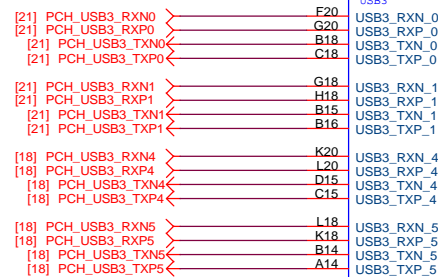


DDRVTT Decouple



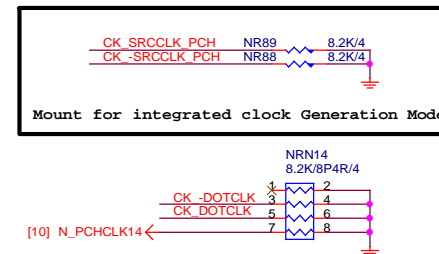


	USB3	FDI	
[21] PCH_USB3_RXN0	F20 USB3_RXN_0	FDI_RXN_0	N1 FDI_TXN0
[21] PCH_USB3_RXP0	G20 USB3_RXP_0	FDI_RXP_0	N2 FDI_TXP0
[21] PCH_USB3_TXN0	B18 USB3_TXN_0	FDI_RXN_1	P2 FDI_TXN1
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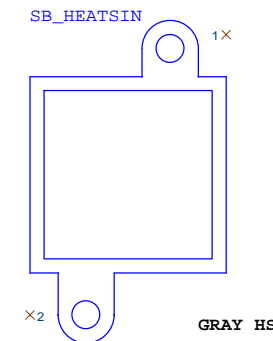


PCIE	PERP_1	USB3_RXP_2	2
PCIE	PETN_1	USB3_TXN_2	2
PCIE	PETP_1	USB3_TXP_2	2
PCIE	PERN_2	USB3_RXN_3	3
PCIE	PERP_2	USB3_RXP_3	3
PCIE	PETN_2	USB3_TXN_3	3
PCIE	PETP_2	USB3_TXP_3	3
PCIE	PERN_3		
PCIE	PERP_3		
PCIE	PETN_3		
PCIE	PETP_3		
PCIE	PERN_4		
PCIE	PERP_4		
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PCIE	PERP_7		
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PCIE	PETP_7		
PCIE	PERN_8		
PCIE	PERP_8		
PCIE	PETN_8		
PCIE	PETP_8		

PCH CLK PD



PCH H/S



PCH_HS
PCH_HS/12SP2-030005-43R_12SP2-030005-41R_12SP2-030005-42R

USB TABLE

```
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OC[7:4]# for Device 26 (ports 8-13)
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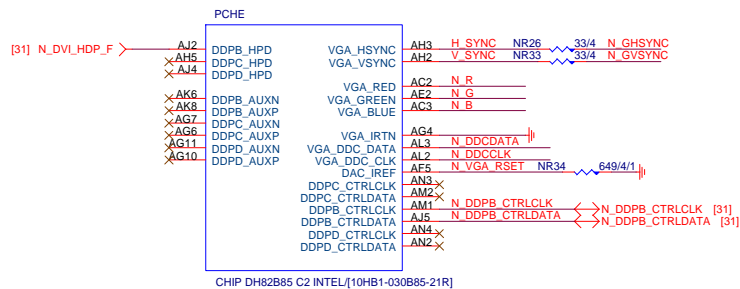
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OC0#	F_USB30
OC1#	USB_LAN
OC2#	R_USB30
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OC4#	F_USB1
OC5#	F_USB2
OC6#	KB_MS_USB
OC7#	Not Use

Gigabyte Technology

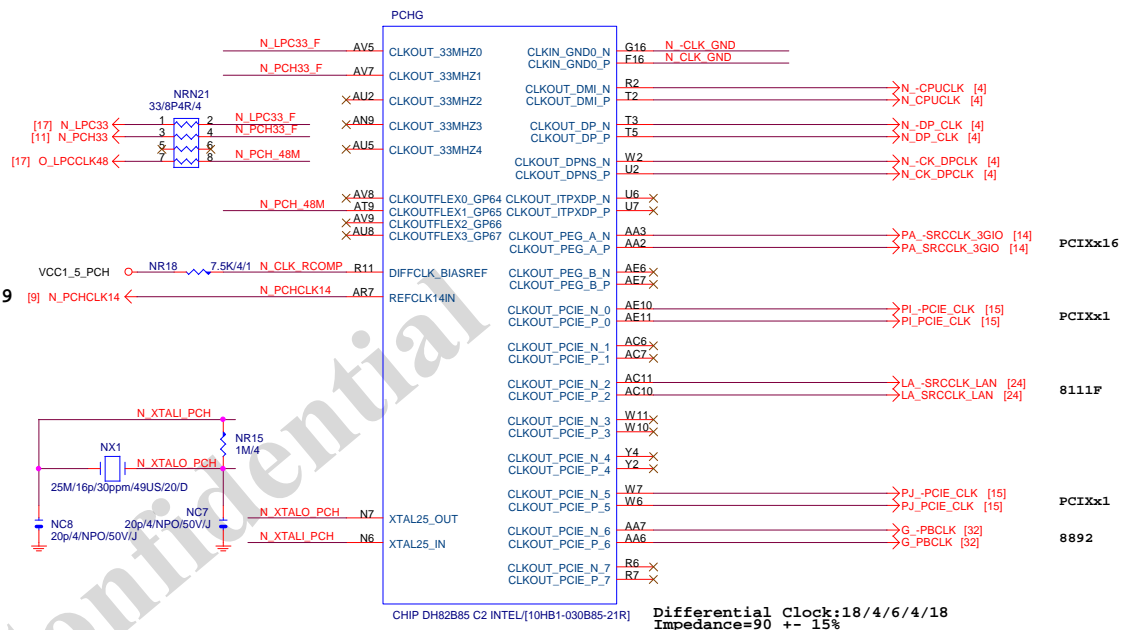
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PCH FDI,DMI,USB ,PCIE,NVRAM			
Size	Document Number		Rev
Custom	GA-B85M-D3V-SI		2.11
Date:	Tuesday, December 02, 2014	Sheet	9 of 32

PCH

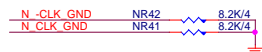
(E)

Flex1,2,3,4 :
14/24/33/48MHZ

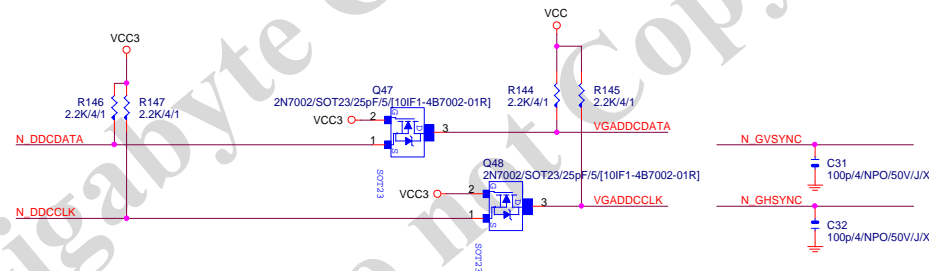
P.D排組PAGE 9



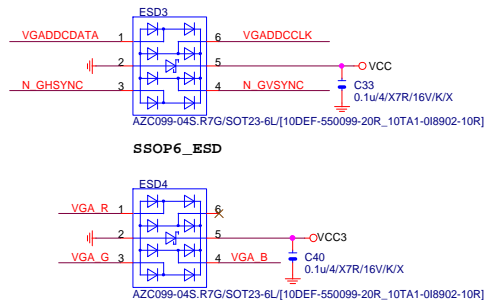
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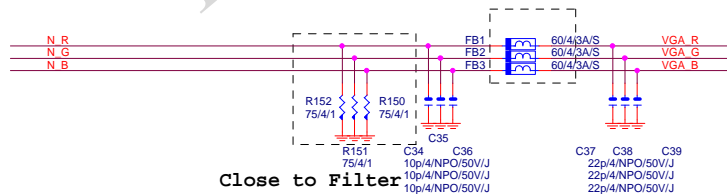
VGA DDC



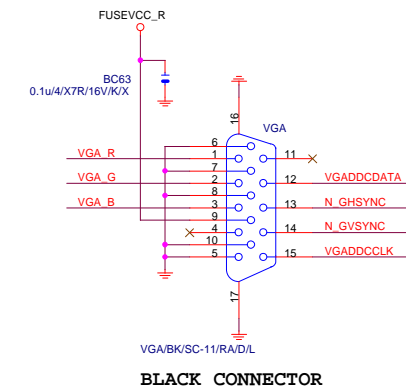
VGA ESD



VGA DDC



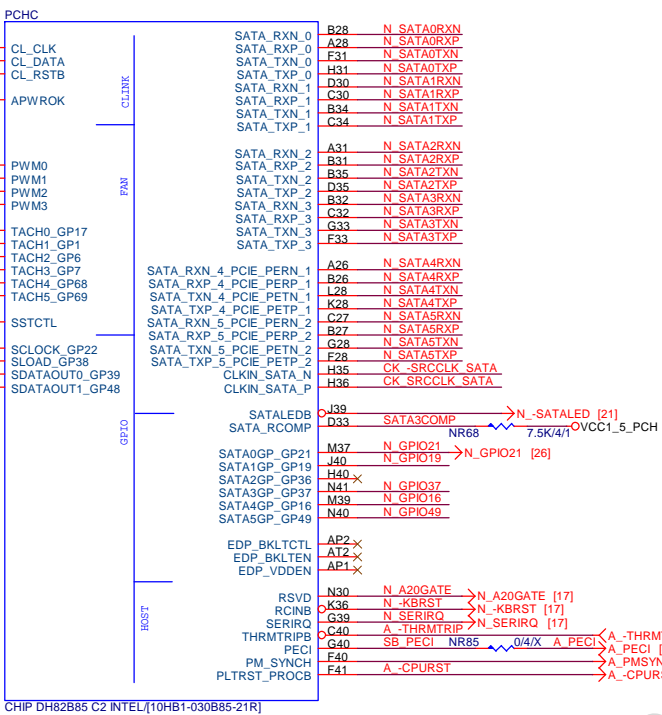
VGA CONNECTOR



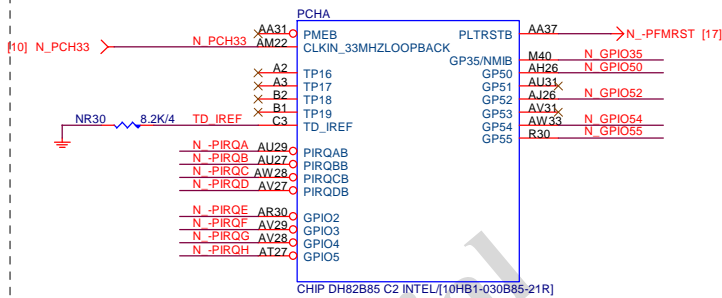
Gigabyte Technology

Title		
PCH DISPLAY_CLK BUFFER		
GA-B85M-D3V-SI		
Size	Document Number	Rev
Custom		2.11
Date:	Tuesday, December 02, 2014	Sheet 10 of 32

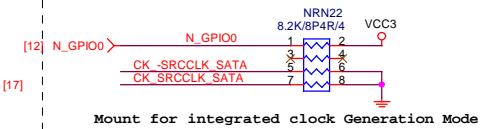
PCH (C)



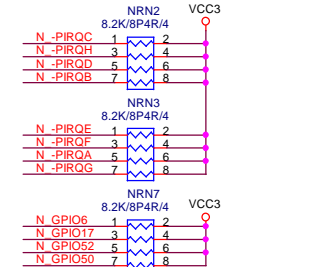
PCH (A)



PCH CLK PD

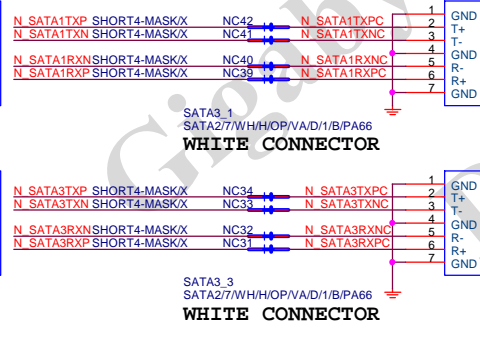
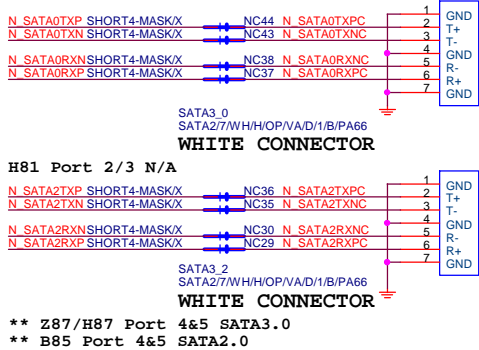


PCH PU/PD



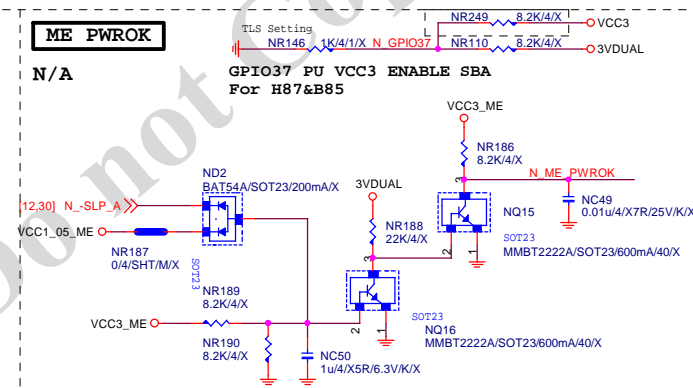
SATA CONNECTOR

Remove SATA MLCC [Footprint: C0402-SHORT4-MASK]



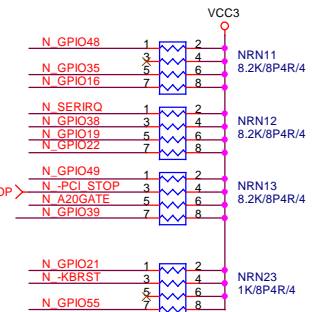
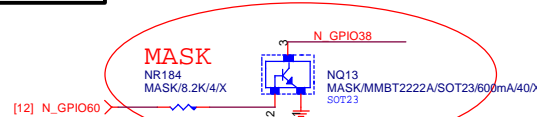
ME PWROK

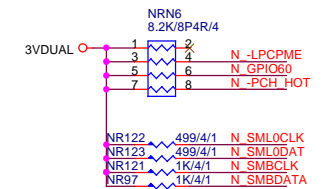
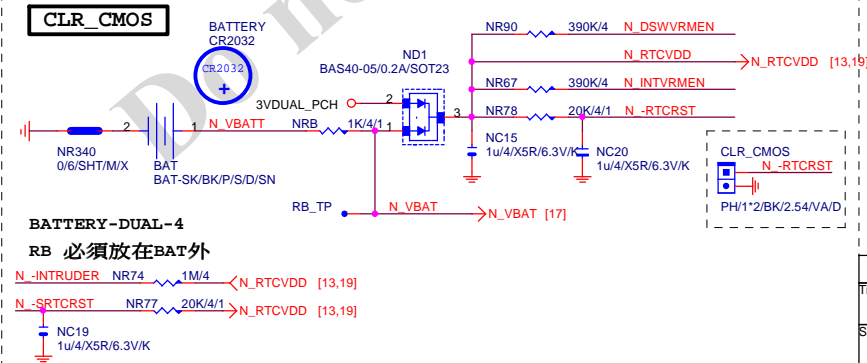
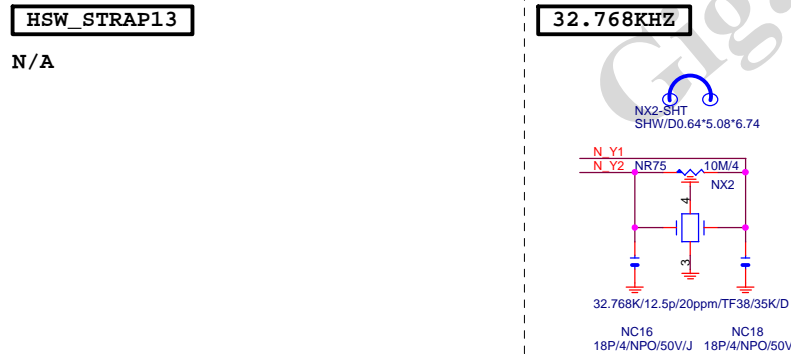
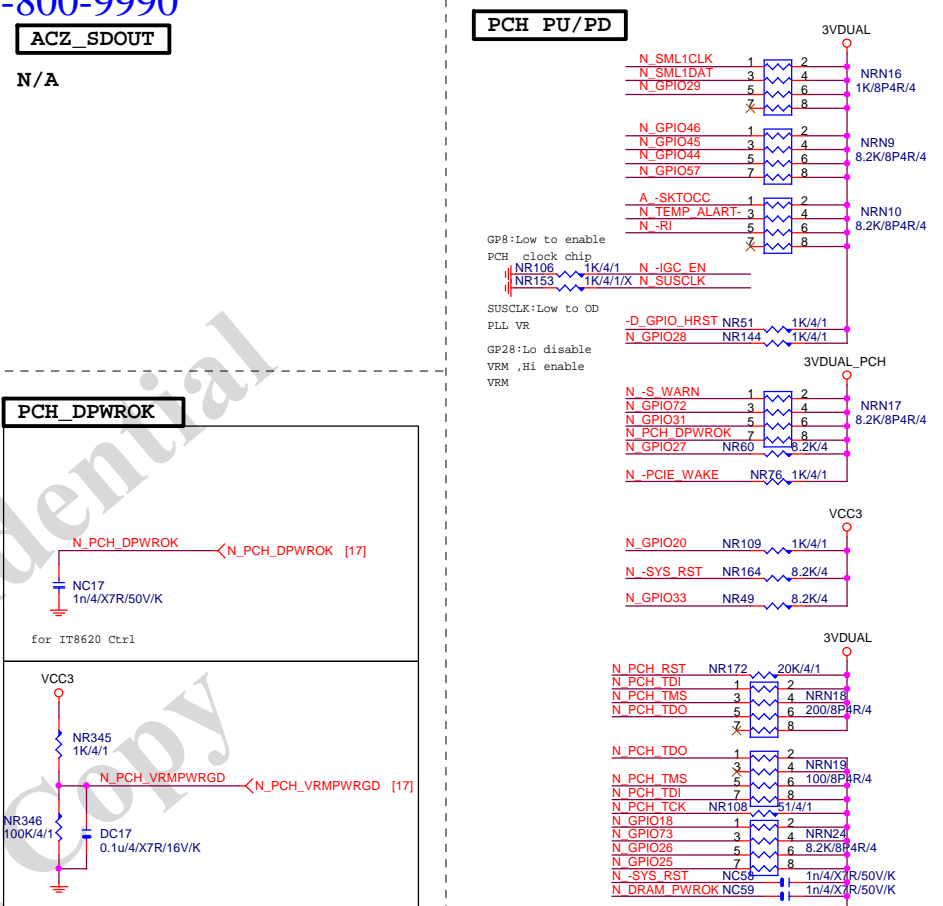
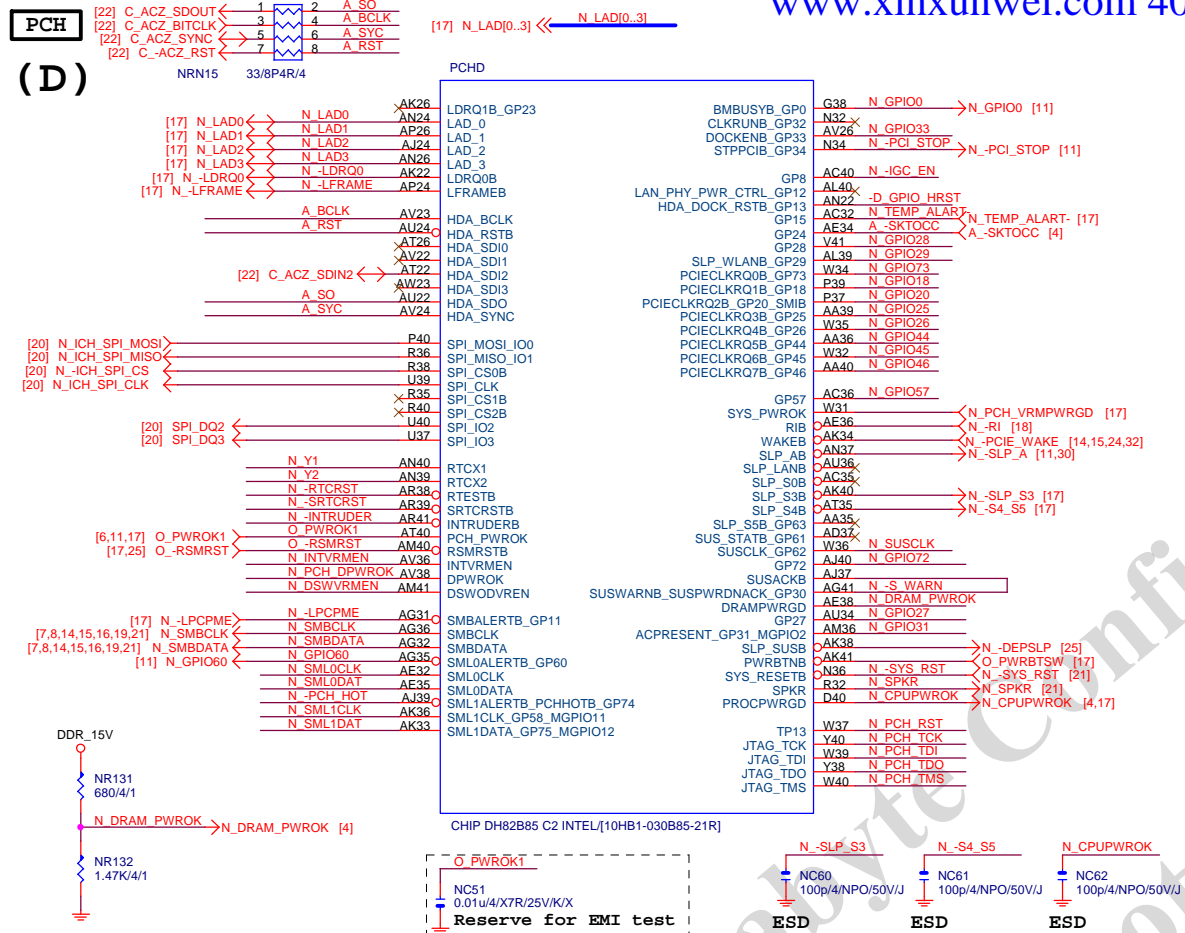
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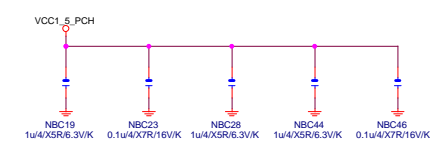


GPIO38 Ctrl

N/A

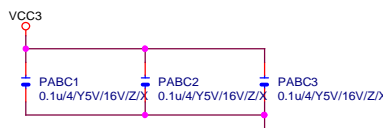




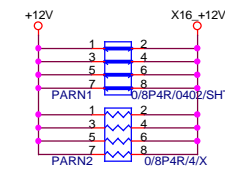


PCIEX16 CAP

N/A



PCIEX16 PROTECT SHT



PCIEX16 AC CAP

PA EXP TXP0	PAC5	0.22u/4/X5R/6.3V/K	PA EXP TXP0 C
PA EXP TXN0	PAC4	0.22u/4/X5R/6.3V/K	PA EXP TXN0 C
PA EXP TXP1	PAC6	0.22u/4/X5R/6.3V/K	PA EXP TXP1 C
PA EXP TXN1	PAC7	0.22u/4/X5R/6.3V/K	PA EXP TXN1 C
PA EXP TXP2	PAC8	0.22u/4/X5R/6.3V/K	PA EXP TXP2 C
PA EXP TXN2	PAC9	0.22u/4/X5R/6.3V/K	PA EXP TXN2 C
PA EXP TXP3	PAC10	0.22u/4/X5R/6.3V/K	PA EXP TXP3 C
PA EXP TXN3	PAC11	0.22u/4/X5R/6.3V/K	PA EXP TXN3 C
PA EXP TXP4	PAC12	0.22u/4/X5R/6.3V/K	PA EXP TXP4 C
PA EXP TXN4	PAC13	0.22u/4/X5R/6.3V/K	PA EXP TXN4 C
PA EXP TXP5	PAC14	0.22u/4/X5R/6.3V/K	PA EXP TXP5 C
PA EXP TXN5	PAC15	0.22u/4/X5R/6.3V/K	PA EXP TXN5 C
PA EXP TXP6	PAC16	0.22u/4/X5R/6.3V/K	PA EXP TXP6 C
PA EXP TXN6	PAC17	0.22u/4/X5R/6.3V/K	PA EXP TXN6 C
PA EXP TXP7	PAC19	0.22u/4/X5R/6.3V/K	PA EXP TXP7 C
PA EXP TXN7	PAC18	0.22u/4/X5R/6.3V/K	PA EXP TXN7 C
PA EXP TXP8	PAC20	0.22u/4/X5R/6.3V/K	PA EXP TXP8 C
PA EXP TXN8	PAC21	0.22u/4/X5R/6.3V/K	PA EXP TXN8 C
PA EXP TXP9	PAC22	0.22u/4/X5R/6.3V/K	PA EXP TXP9 C
PA EXP TXN9	PAC23	0.22u/4/X5R/6.3V/K	PA EXP TXN9 C
PA EXP TXP10	PAC24	0.22u/4/X5R/6.3V/K	PA EXP TXP10 C
PA EXP TXN10	PAC25	0.22u/4/X5R/6.3V/K	PA EXP TXN10 C
PA EXP TXP11	PAC26	0.22u/4/X5R/6.3V/K	PA EXP TXP11 C
PA EXP TXN11	PAC27	0.22u/4/X5R/6.3V/K	PA EXP TXN11 C
PA EXP TXP12	PAC28	0.22u/4/X5R/6.3V/K	PA EXP TXP12 C
PA EXP TXN12	PAC29	0.22u/4/X5R/6.3V/K	PA EXP TXN12 C
PA EXP TXP13	PAC30	0.22u/4/X5R/6.3V/K	PA EXP TXP13 C
PA EXP TXN13	PAC31	0.22u/4/X5R/6.3V/K	PA EXP TXN13 C
PA EXP TXP14	PAC32	0.22u/4/X5R/6.3V/K	PA EXP TXP14 C
PA EXP TXN14	PAC33	0.22u/4/X5R/6.3V/K	PA EXP TXN14 C
PA EXP TXP15	PAC34	0.22u/4/X5R/6.3V/K	PA EXP TXP15 C
PA EXP TXN15	PAC35	0.22u/4/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]

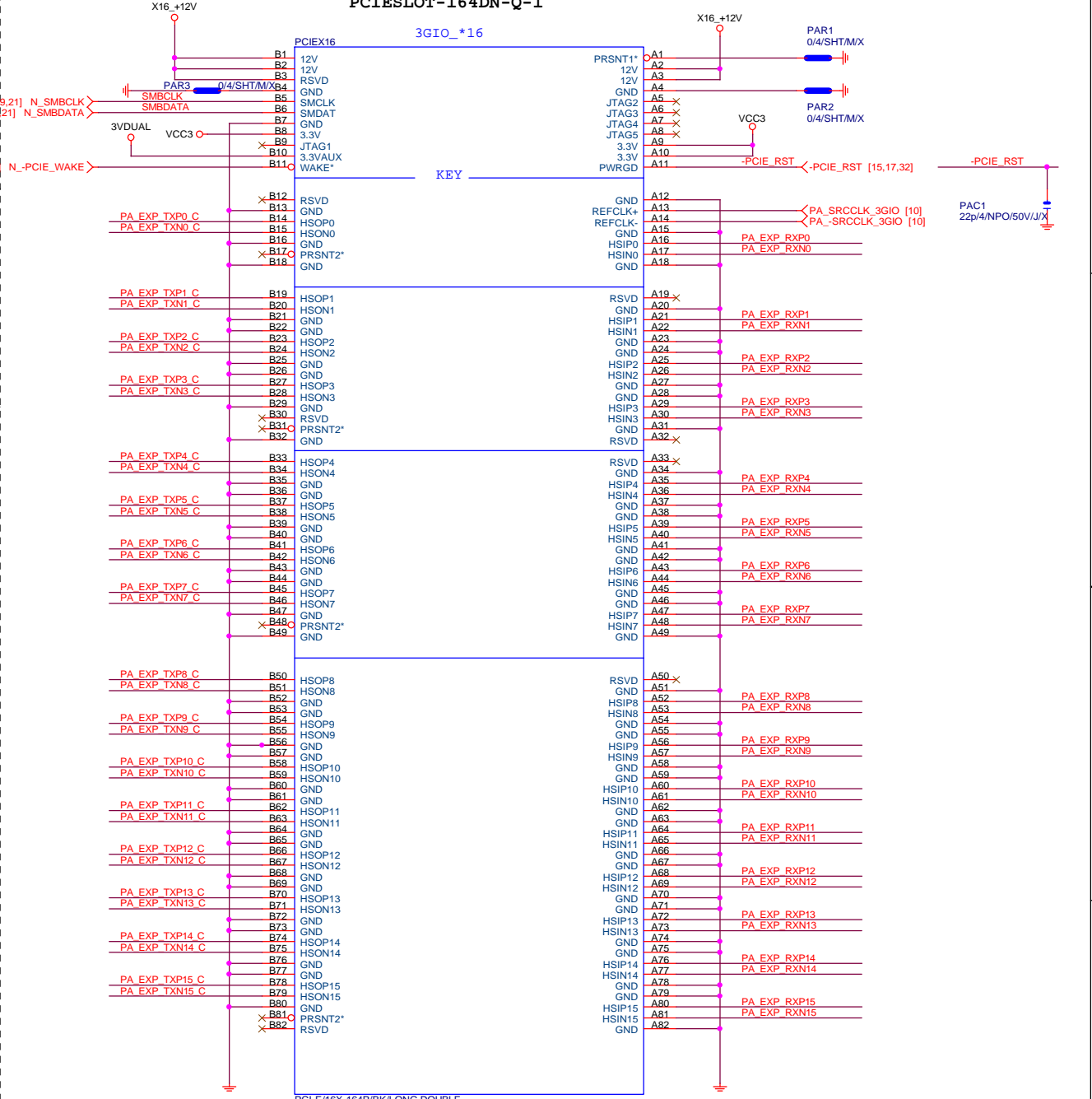
PA EXP TXP0.[15] >>> PA_EXP_TXP[0..15] [4]

PA EXP TXN0.[15] >>> PA_EXP_TXN[0..15] [4]

PCIEX16 SLOT

www.xinxunwei.com 400-800-9990

PCIESLOT-164DN-Q-1



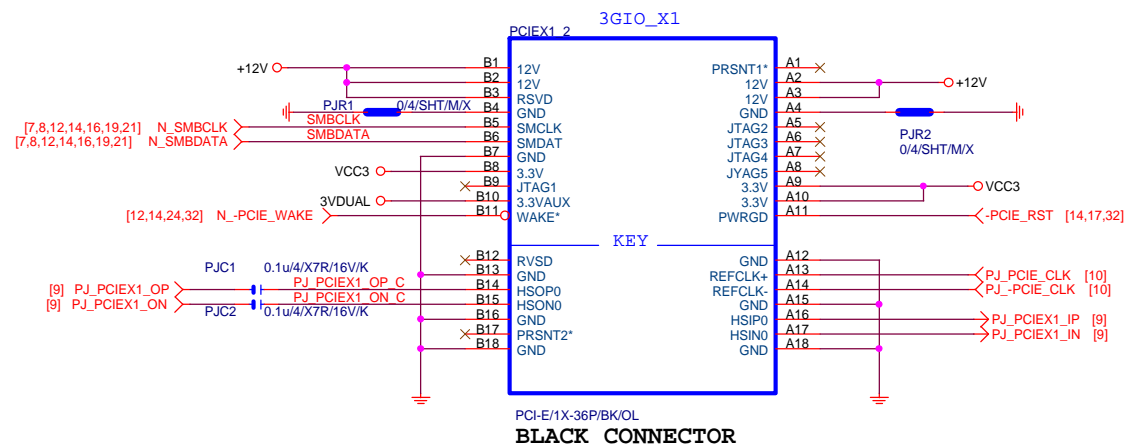
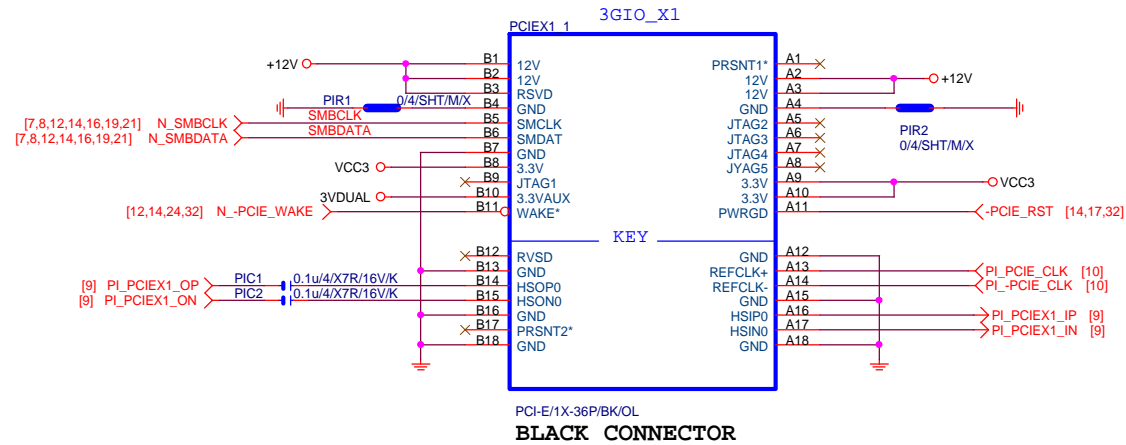
PCIESLOT-164DN-Q-1

BLACK CONNECTOR

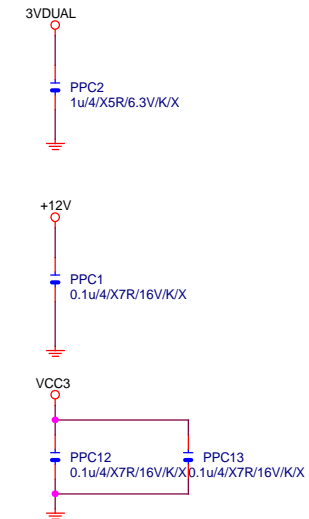
Gigabyte Technology

Title			PCI EXPRESS * 16		
Size			Document Number		
Custom			GA-B85M-D3V-SI		
Date:			Rev		
Tuesday, December 02, 2014			2.11		
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PCIEX1 SLOT

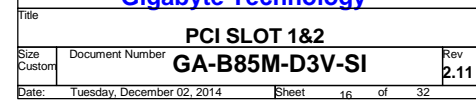
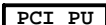


N/A



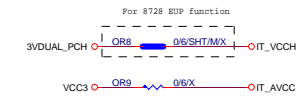
Gigabyte Technology

Title			PCI EXPRESS X 1 PORT
Size	Document Number	GA-B85M-D3V-SI	
Custom		Rev	2.11
Date:	Tuesday, December 02, 2014	Sheet	15 of 32

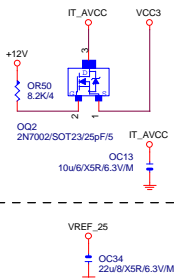


SIO IT8620

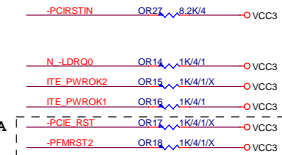
PWR_SHT



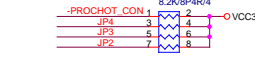
SIO PU



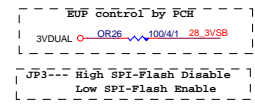
DO8:N/A



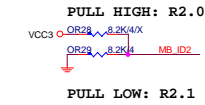
SIO STRAP



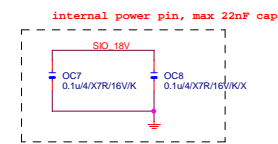
Power leakage



MB ID



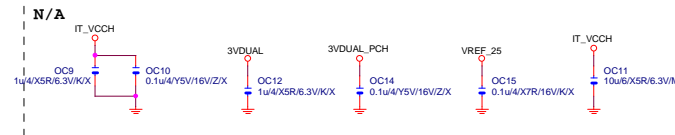
SIO_18V



DUAL BIOS OPT STRAP

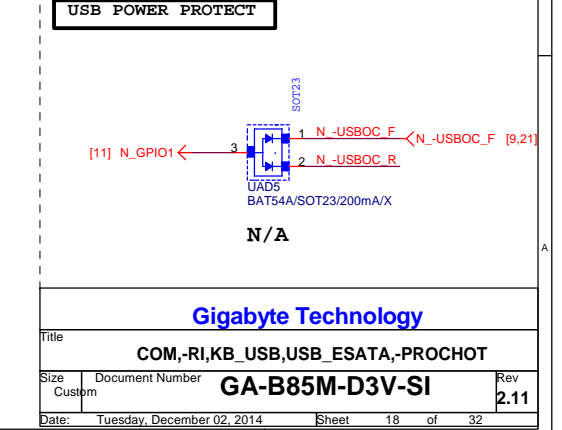
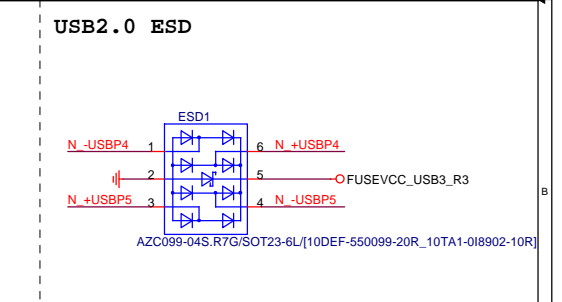
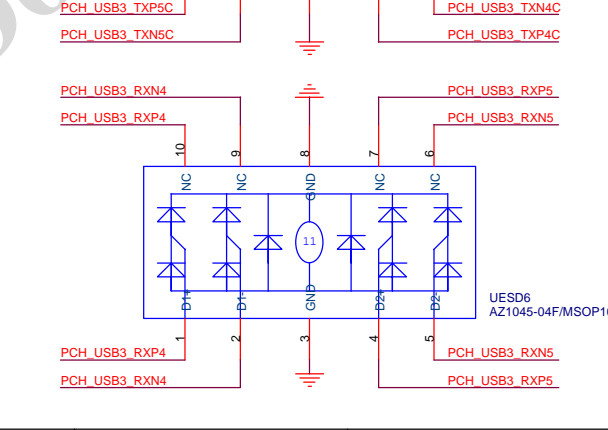
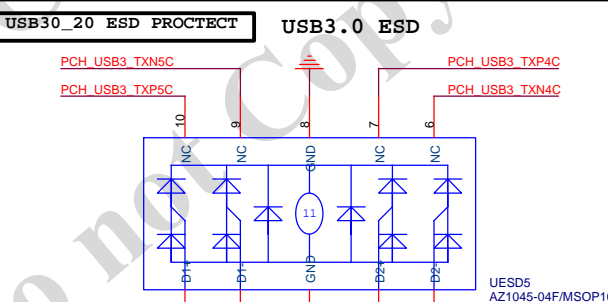
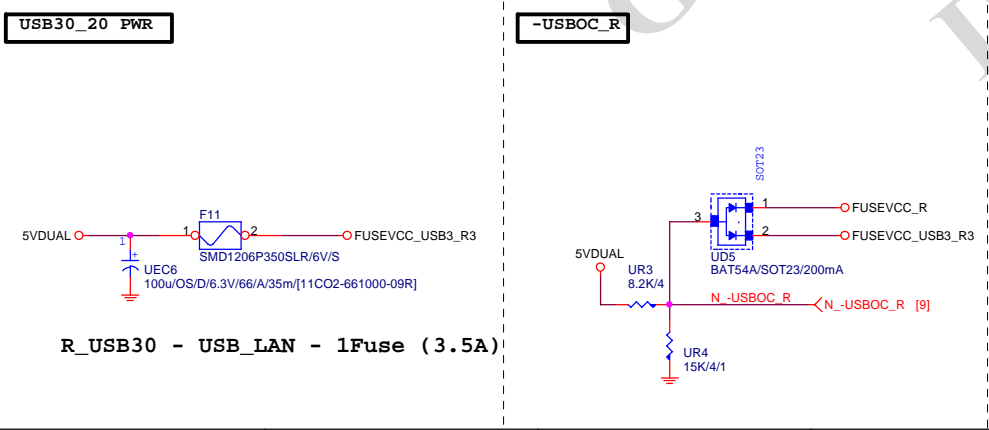
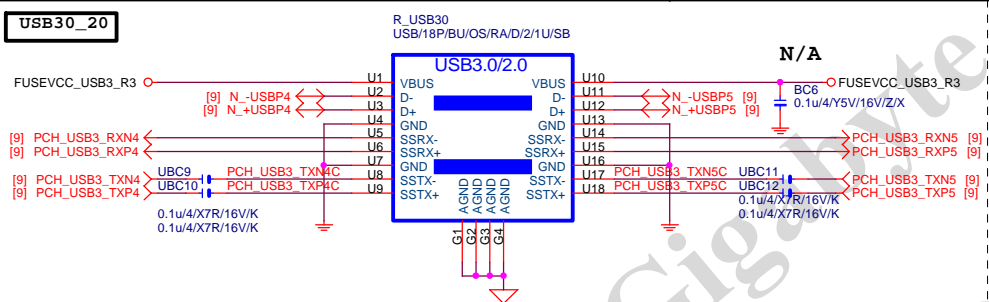
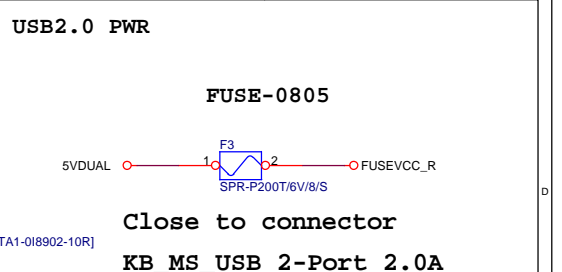
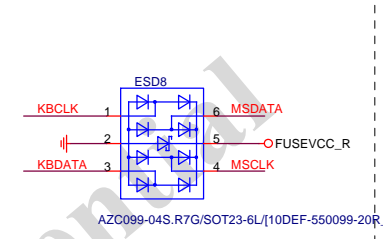
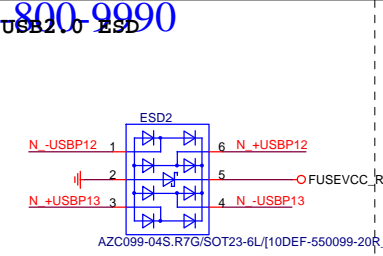
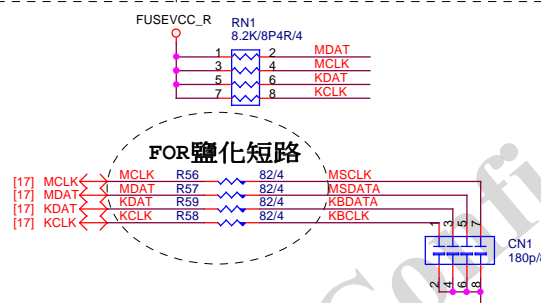
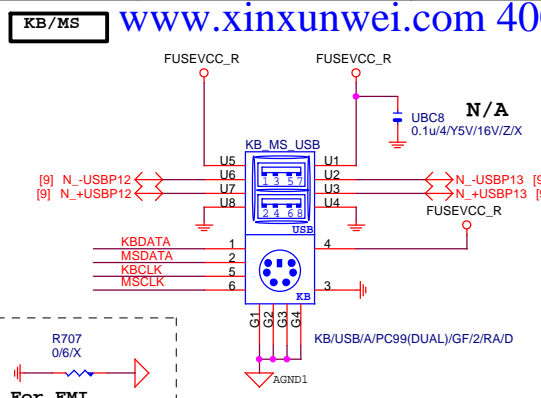
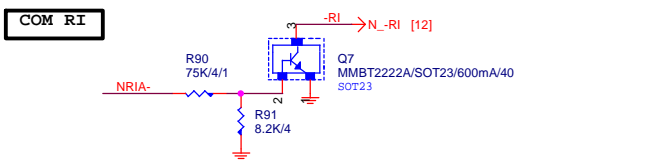
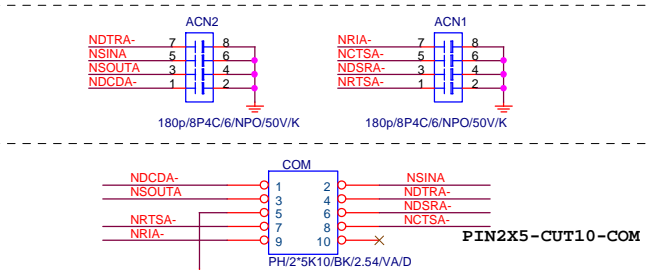
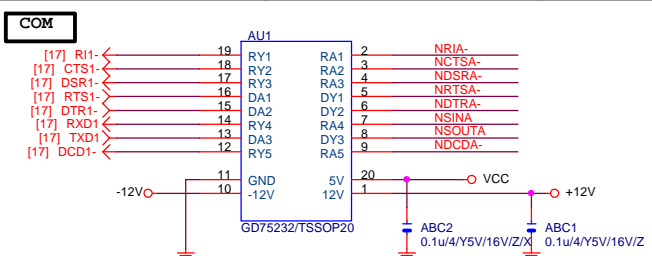


SIO CAP

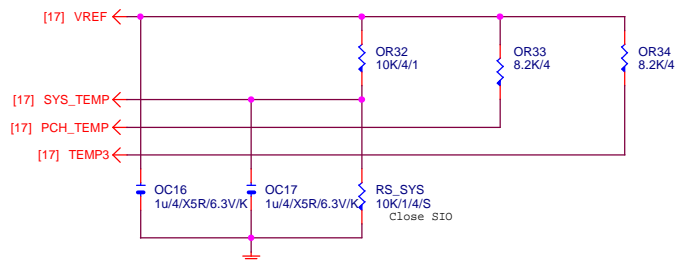


Gigabyte Technology

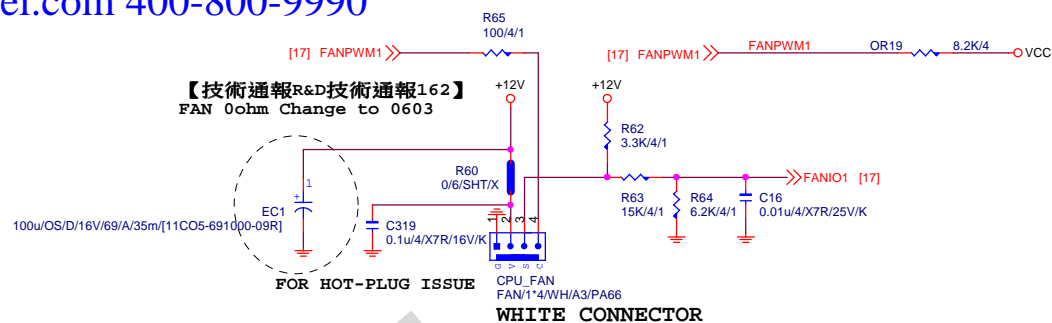
File			ITE 8728 LPC IO
Size	Document Number	GA-B85M-D3V-SI	
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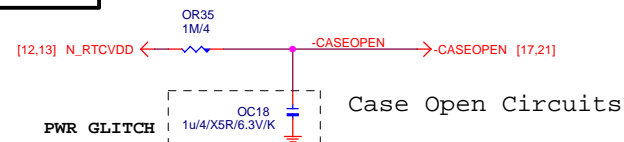
TEMP H/W MONITOR



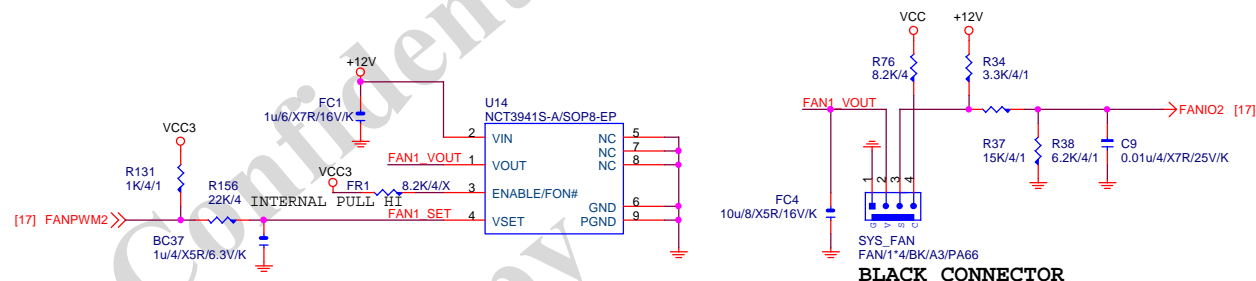
CPU SMART FAN



CASE OPEN



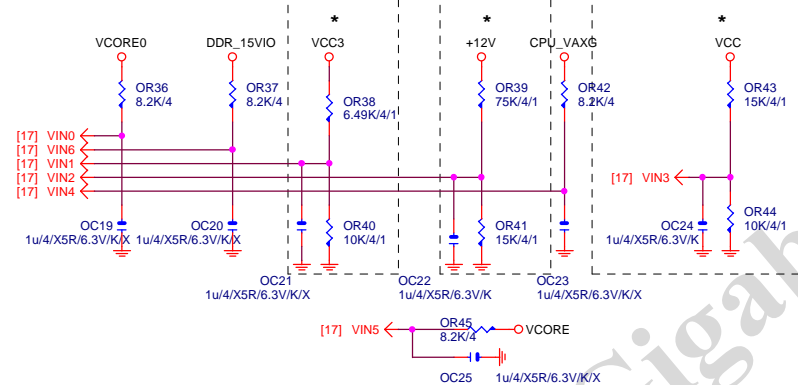
SYS SMART FAN



VOLTAGE-- H/W MONITOR

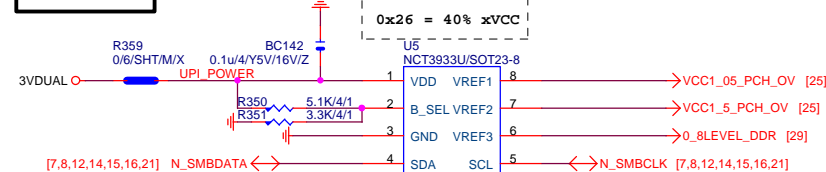
VIN2:75K/15K = 2V

VIN3:15K/10K = 2V



接pwm feedback pin

OV NCT3933



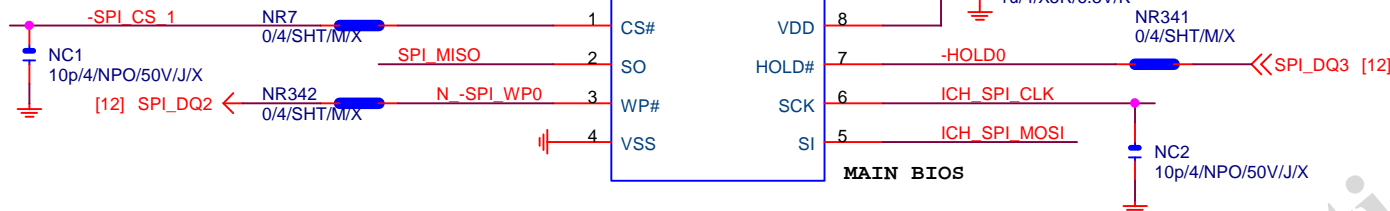
Gigabyte Technology

Title			HWM,FAN CTRL,OV	
Size			GA-B85M-D3V-SI	
Date:			Tuesday, December 02, 2014	
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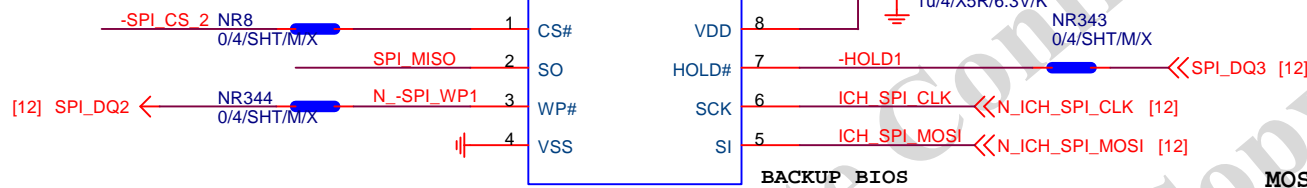
RS4 Reserve

RS1、RS2、RS3 CLOSE CPU
VR MOSFET

M_BIOS
32M/SPI/SO8/200mil/S/[10HP4-112532-20R]



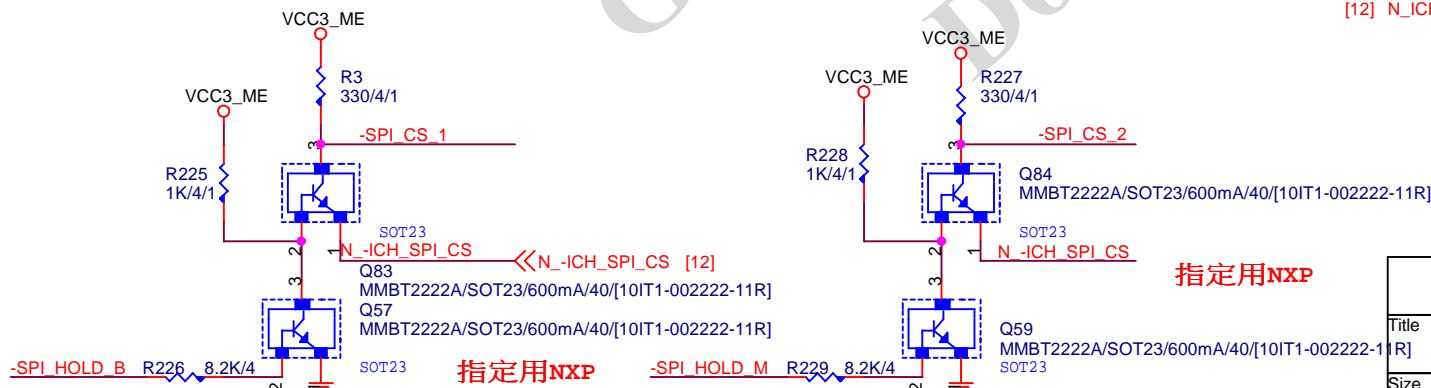
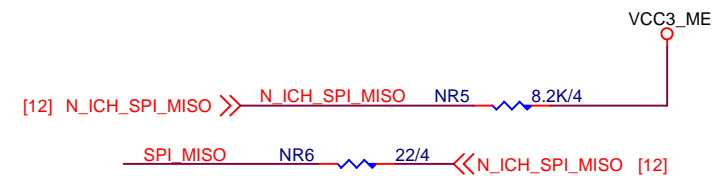
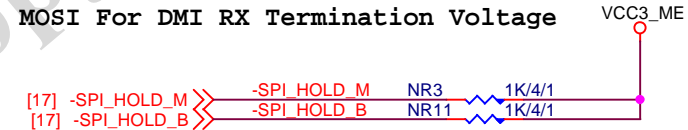
B_BIOS
32M/SPI/SO8/200mil/S/[10HP4-112532-20R]



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



指定用NXP

Gigabyte Technology

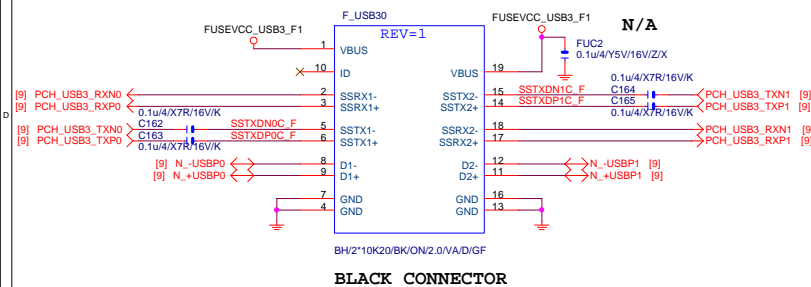
DUAL BIOS

GA-B85M-D3V-SI

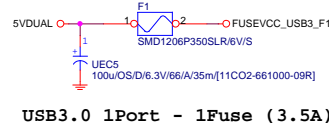
Rev 2.11

Title	GA-B85M-D3V-SI		Rev
Size Custom	Document Number	GA-B85M-D3V-SI	2.11
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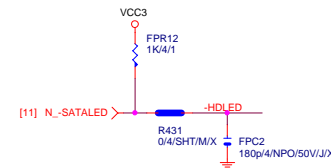
F_USB30



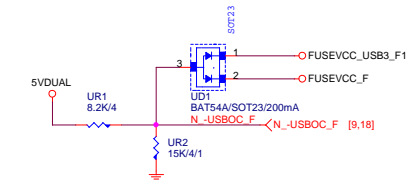
Polyswitch-1206



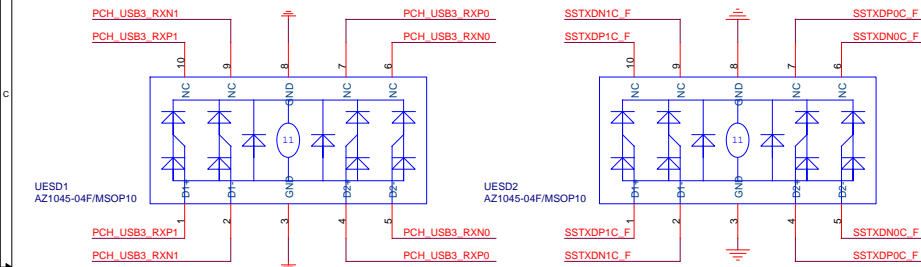
F_USB30_PWR



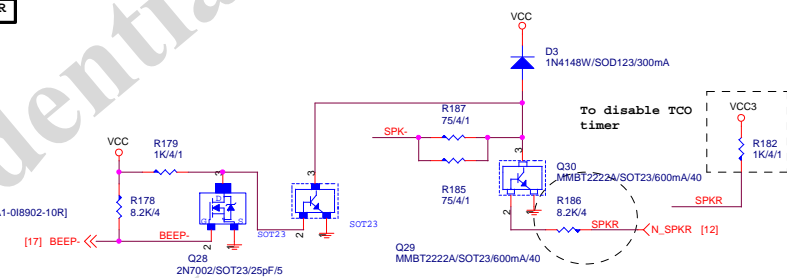
-USBOC_F



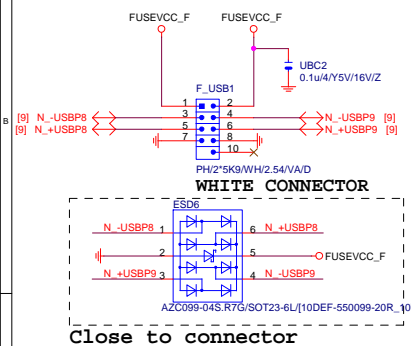
F_USB30 ESD PROTECT



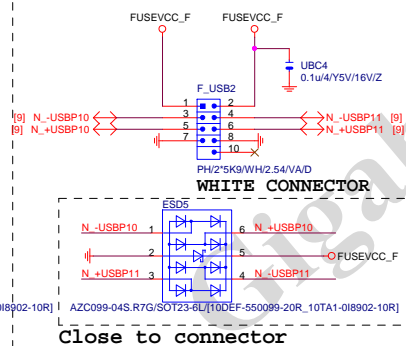
SPKR



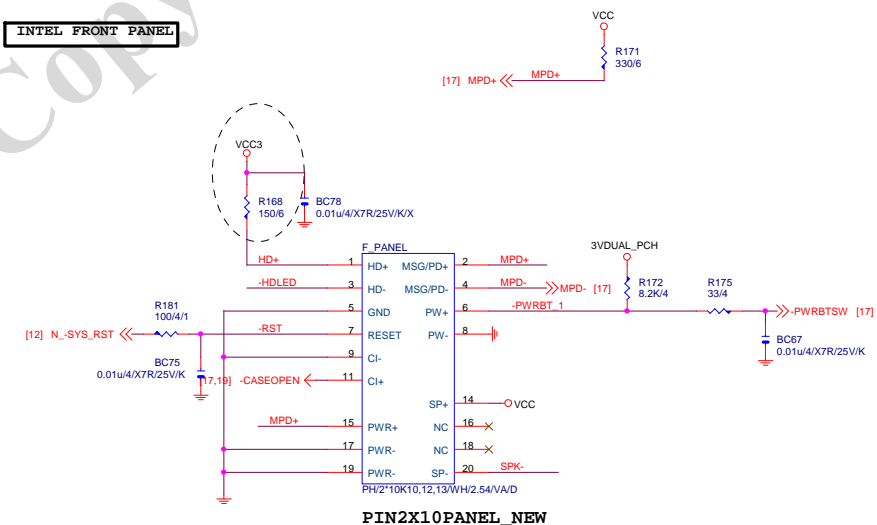
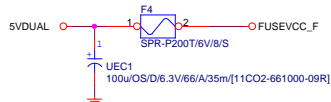
FRONT USB1



FRONT USB2

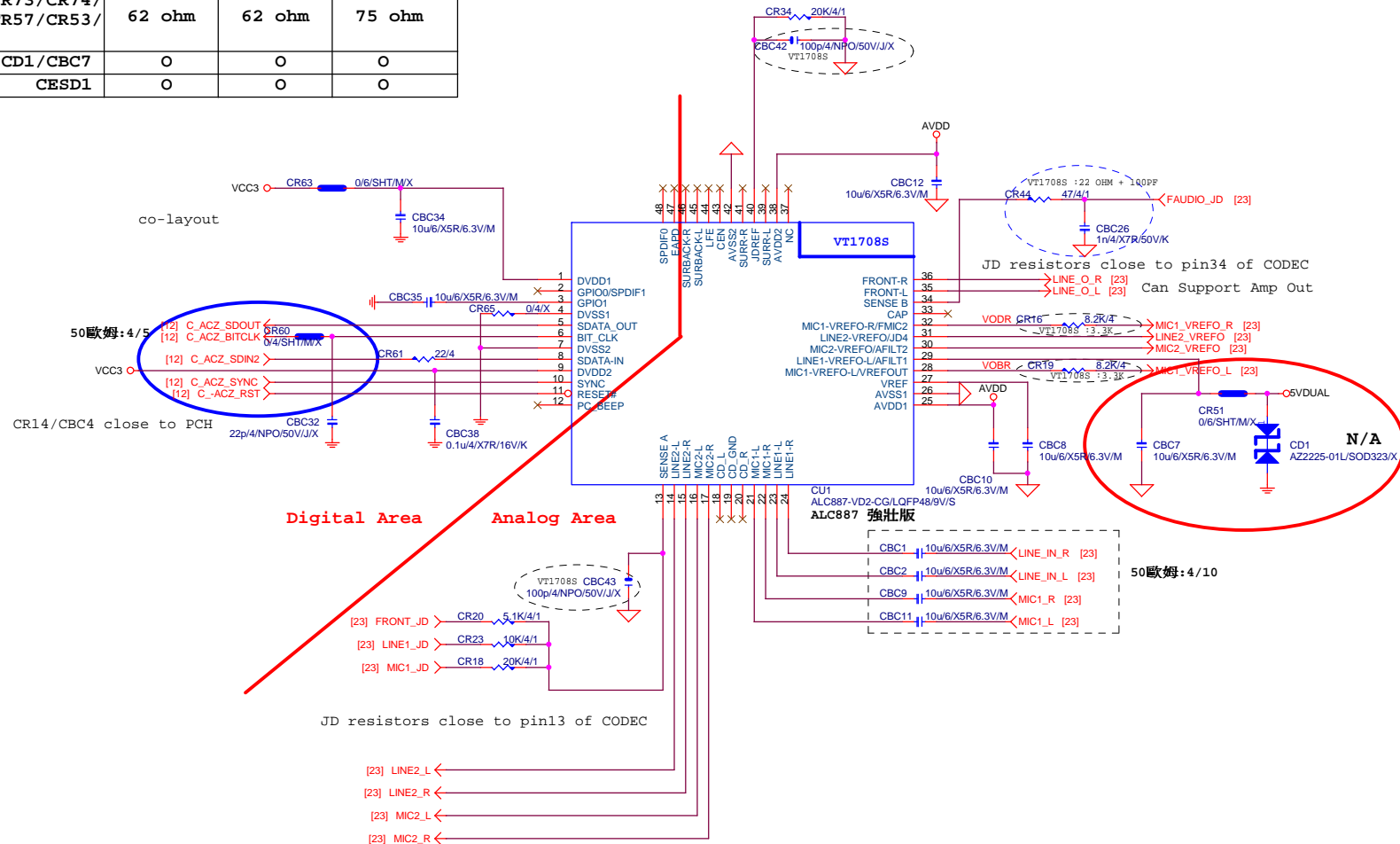


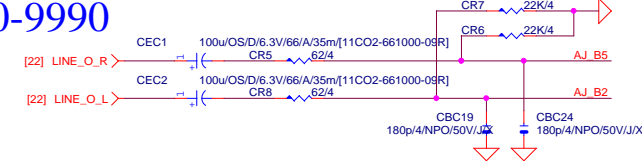
INTEL FRONT PANEL

FUSE-0805
F_USB1, F_USB2 4-Port 2.0A

AZALIA CODEC *ALC892/ALC887-VD2/VT1708-CE* Colay

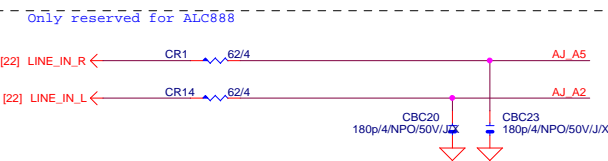
	ALC892	ALC887-VD2	VT1708S-CE
CR44/CBC26	47ohm+1nF	47ohm+1nF	22ohm+100P
CBC42/CBC43	X	X	100P/4
CR6/CR7/CR58/CR54/ CR67/CR68/CR69/CR70	22K/4	22K/4	10K/4/1
CR5/CR8/CR1/CR14/ CR17/CR22/CR73/CR74/ CR13/CR11/CR57/CR53/ CR75/CR76	62 ohm	62 ohm	75 ohm
CR51/CD1/CBC7	O	O	O
CESD1	O	O	O



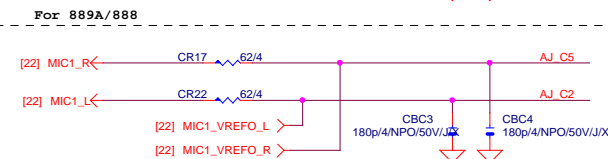


LINE-IN

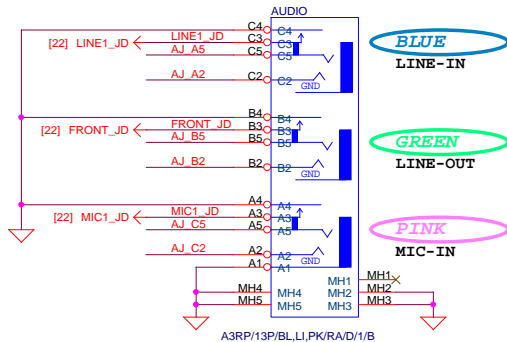
Verify MIC function
in LINE-in



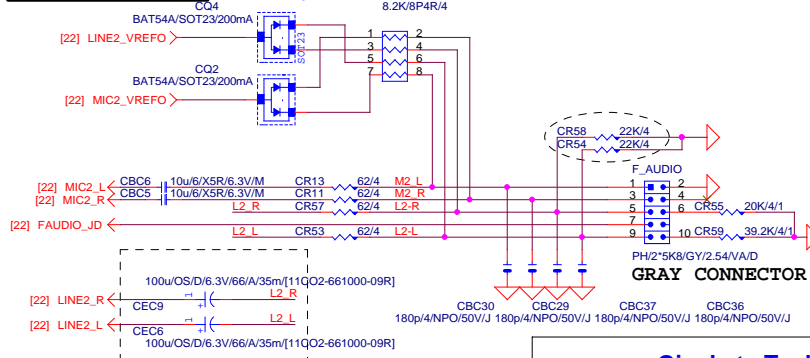
MIC-IN



SPDIF_OUT

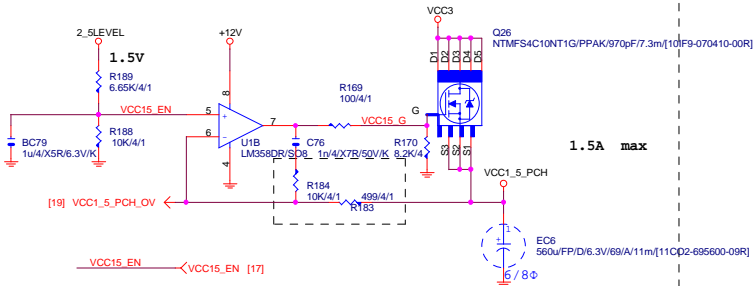


AZALIA FRONT PANEL



Gigabyte Technology			
Title			
AUDIO JACK			
Size	Document Number	GA-B85M-D3V-SI	
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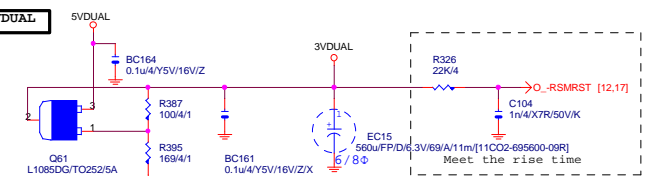
VCC1_5_PCH



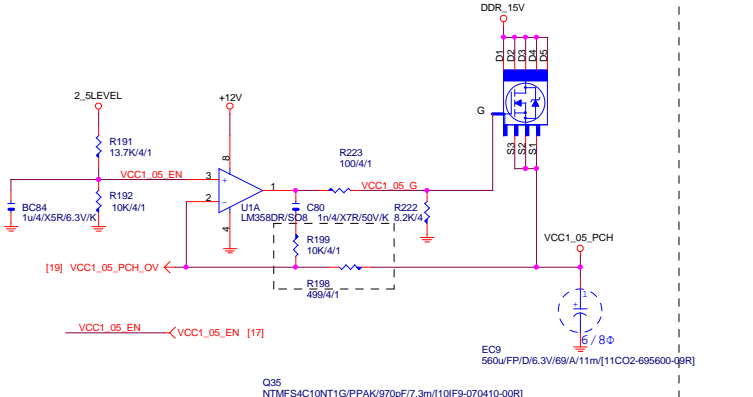
2_5LEVEL



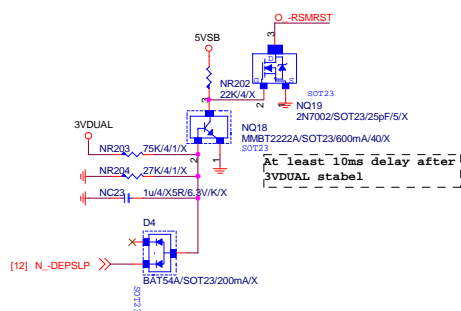
3VDUAL



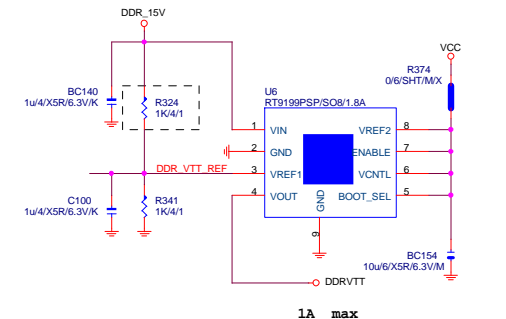
VCC1_05_PCH



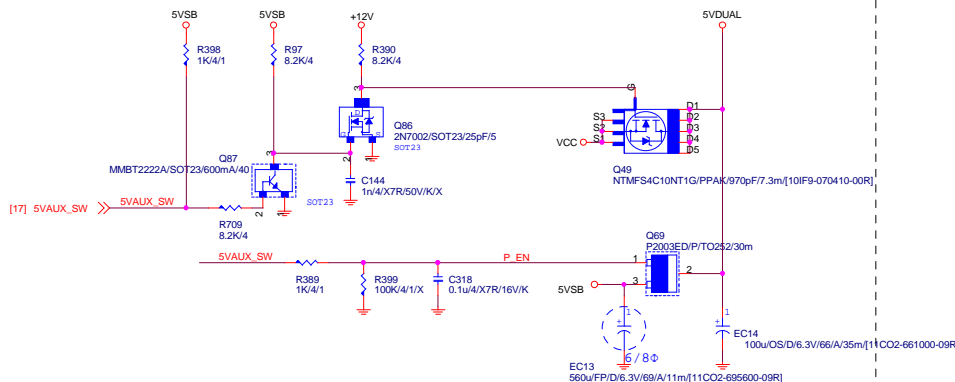
N/A



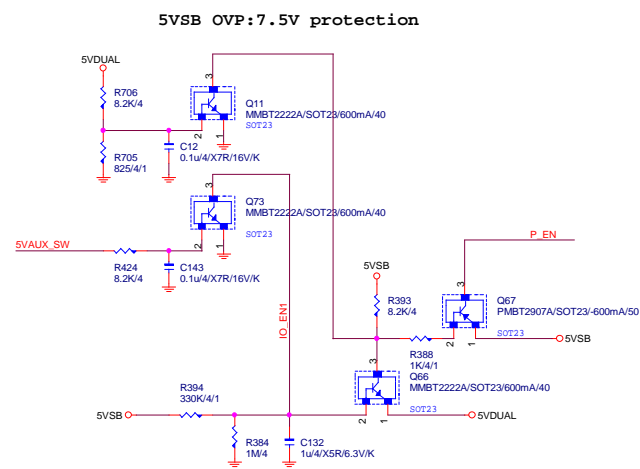
DDRVTT



5VDUAL

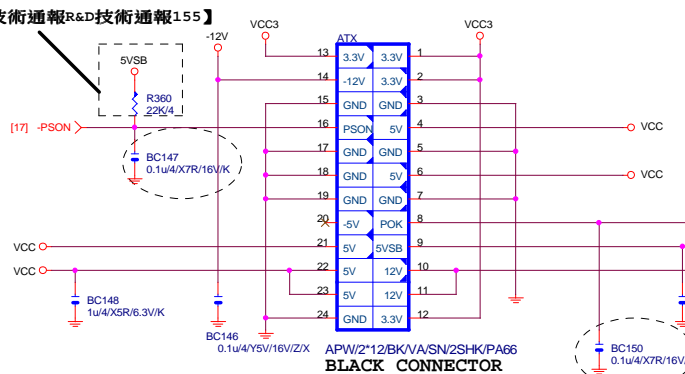


5VDUAL SHORT PROTECT



ATXX24 POWER CONNECTOR

【技術通報R&D技術通報155】

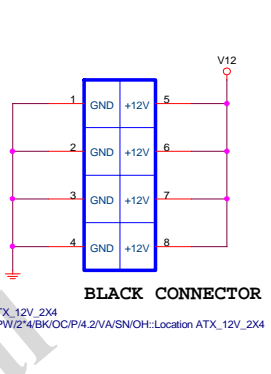
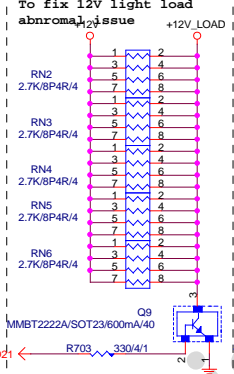


BLACK CONNECTOR

www.xinxunwei.com 400-800-0900

ATXX4 POWER CONNECTOR

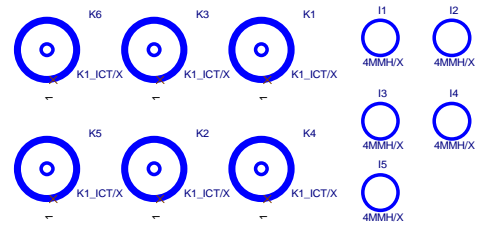
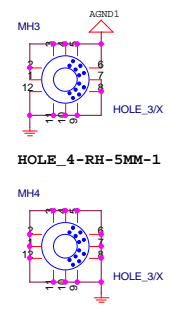
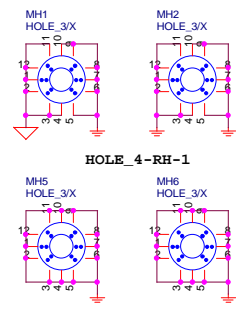
【技術通報R&D技術通報155】



BLACK CONNECTOR

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

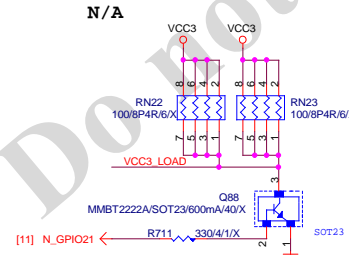
TPM



To prevent the 5VSB under loading when boot

FIX PWR MINMUN LOAD

N/A



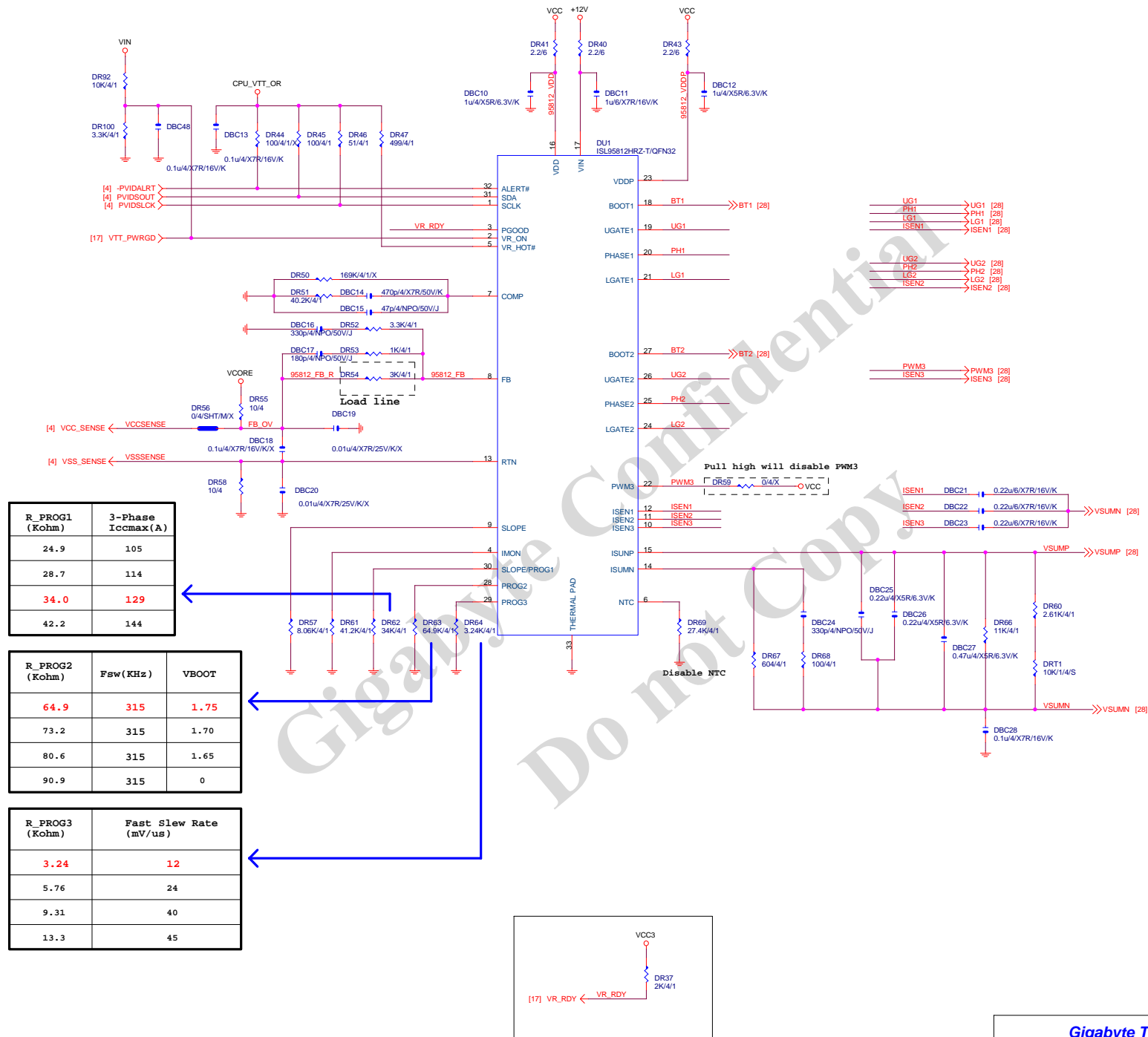
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ATX CONNECTOR

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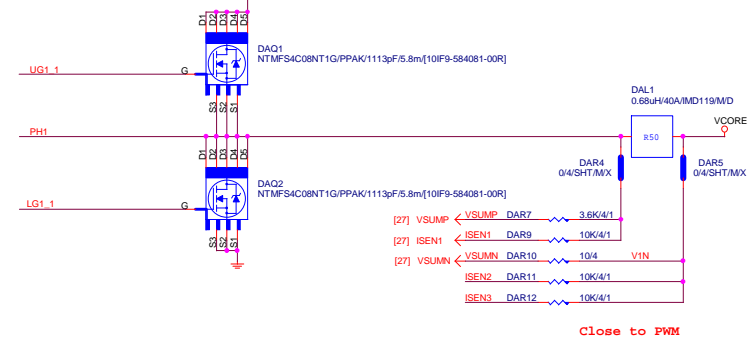
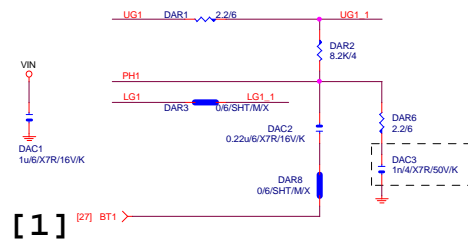
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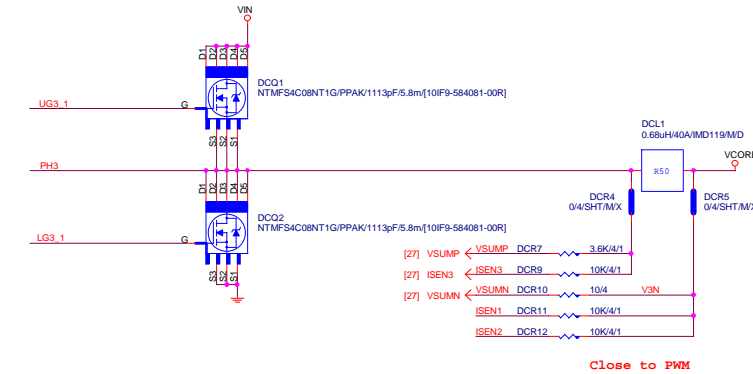
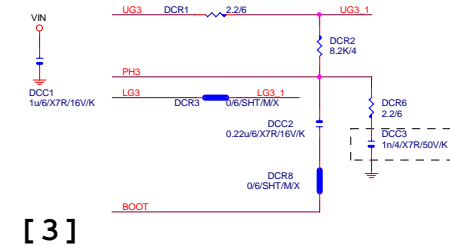
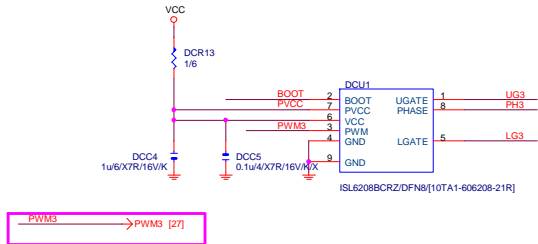
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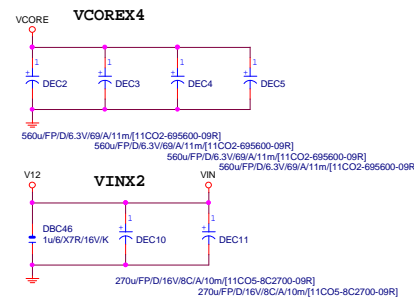
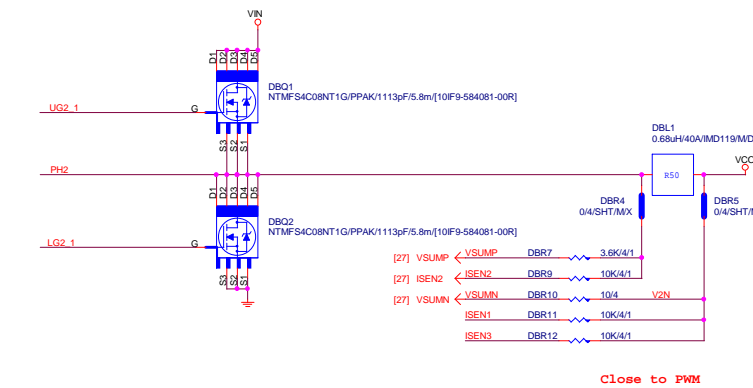
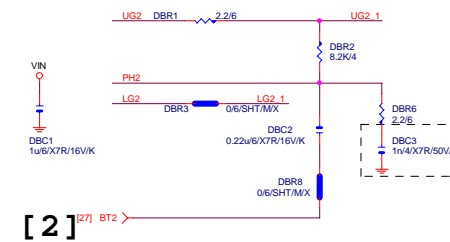
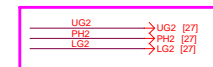
PHASE 1



PHASE 3

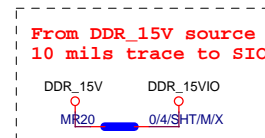


PHASE 2




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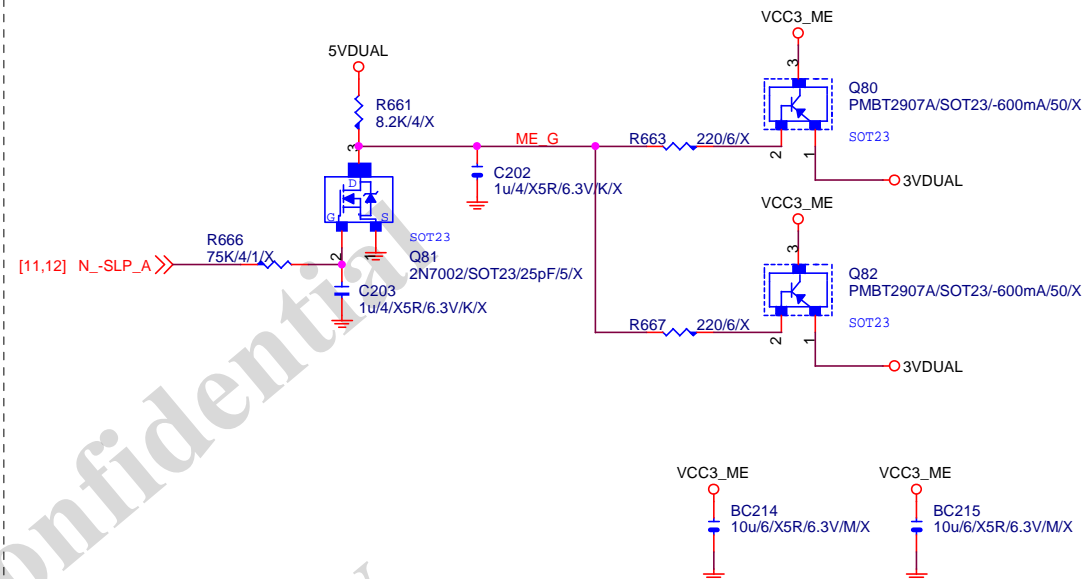
PWR SEQ

```
Rocset=(Iocp*Lgate,rdson)/Iocset
Rocset=(45A*6.7mOhm)/10uA = 30K
Iocset=10uA
```

<div style="text-align: center;">  </div>			
Title			
DDR POWER			
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(RICHTER), (NUVOTON), (EMC)做共用
PIN7分壓阻值須做修改為100K以上電阻值

N/A



10GL2-303730-01R

33ohm Change to 68ohm

PRN1
68/8P4R/4

[17] STB- <--	STB-PD0	1	2	LPT1
	AFD-	3	4	LPT2
[17] AFD- <--	AFD-	5	6	LPT14
[17] INIT- <--	INIT-	7	8	LPT16

PRN9
68/8P4R/4

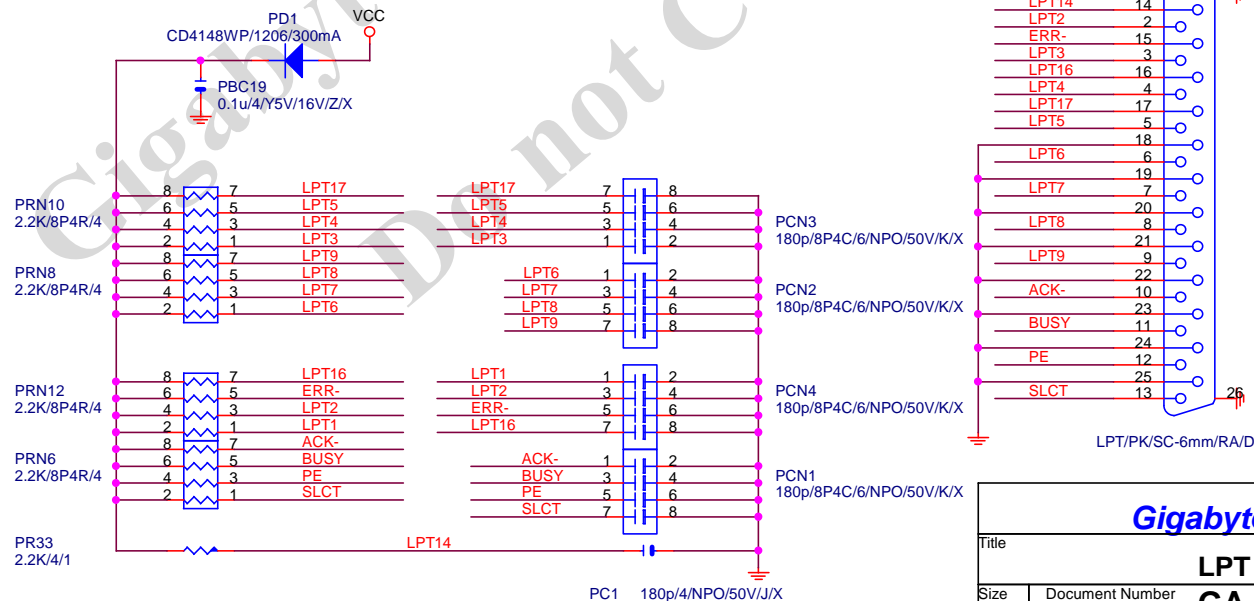
	PD1	1	2	LPT3
	PD2	3	4	LPT4
	PD3	5	6	LPT5
[17] SLIN- <--	SLIN-	7	8	LPT17

PRN7
68/8P4R/4

	PD4	1	2	LPT6
	PD5	3	4	LPT7
	PD6	5	6	LPT8
	PD7	7	8	LPT9

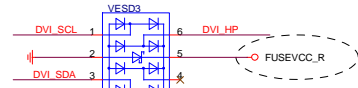
PRN0

[17] ERR- <--	ERR-			
[17] ACK- <--	ACK-			
[17] BUSY <--	BUSY			
[17] PE <--	PE			
[17] SLCT <--	SLCT			
[17] PD[0..7] <--	PD[0..7]			



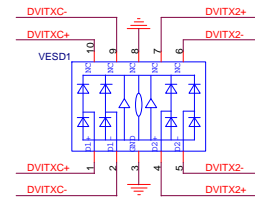
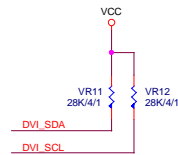
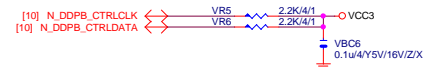
Title			
LPT			
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DVI



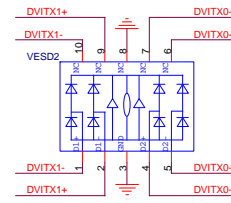
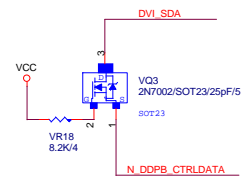
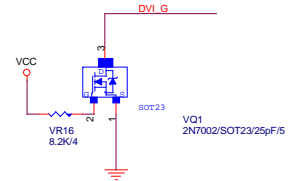
AZ0399-04S.R7G/SOT23-6L[10DEF-550099-20R_10TA1-0I8902-10R]

Close to connector



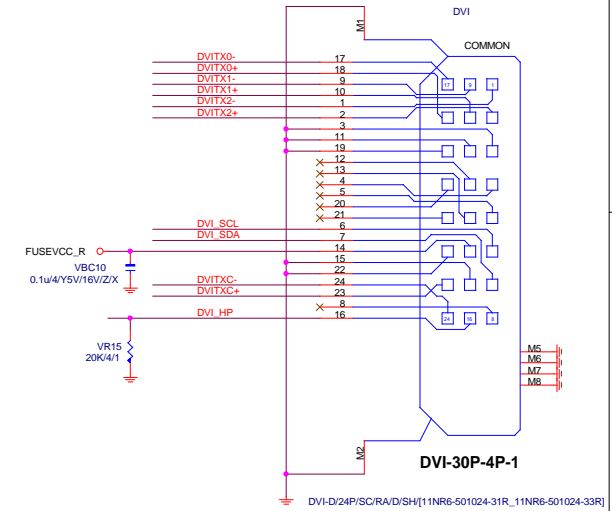
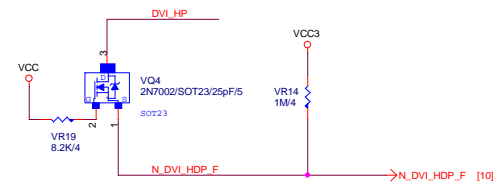
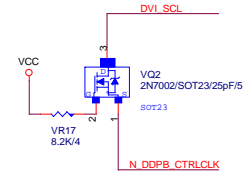
AZ1045-04F/MSOP10

Close to connector



AZ1045-04F/MSOP10

Close to connector



DVI-30P-4P-1

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ITE IT8892E			
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