

Model Name: GA-B75M-D3H

Revision 1.1

SHEET

TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1155-A
05	CPU_LGA1155-B
06	CPU_LGA1155-C
07	DDR III CHANNEL A 1,2
08	DDR III CHANNEL B 1,2
09	PCH_FDI,DMI,USB,PCIE,NVRAM
10	PCH_DP,CLK BUFFER
11	PCH_HOST,SATA,PCI
12	PCH_GPIO,CTRL,AUDIO
13	PCH_PWR,GND
14	PCI EXPRESS*16 SLOT
15	PCI EXPRESS*4 SLOT
16	PCI SLOT1,2
17	ITE 8728 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-VL
25	DISCRETE POWER
26	ATX,CLK GEN
27	RT8120_CPU_VTT

SHEET

TITLE

28	VCORE ISL95836_1
29	VCORE ISL95836_2
30	RT8120_DDR POWER
31	LPT,TPM,M3 POWER
32	HDMI,DVI

www.aitech1.ru

Gigabyte Technology

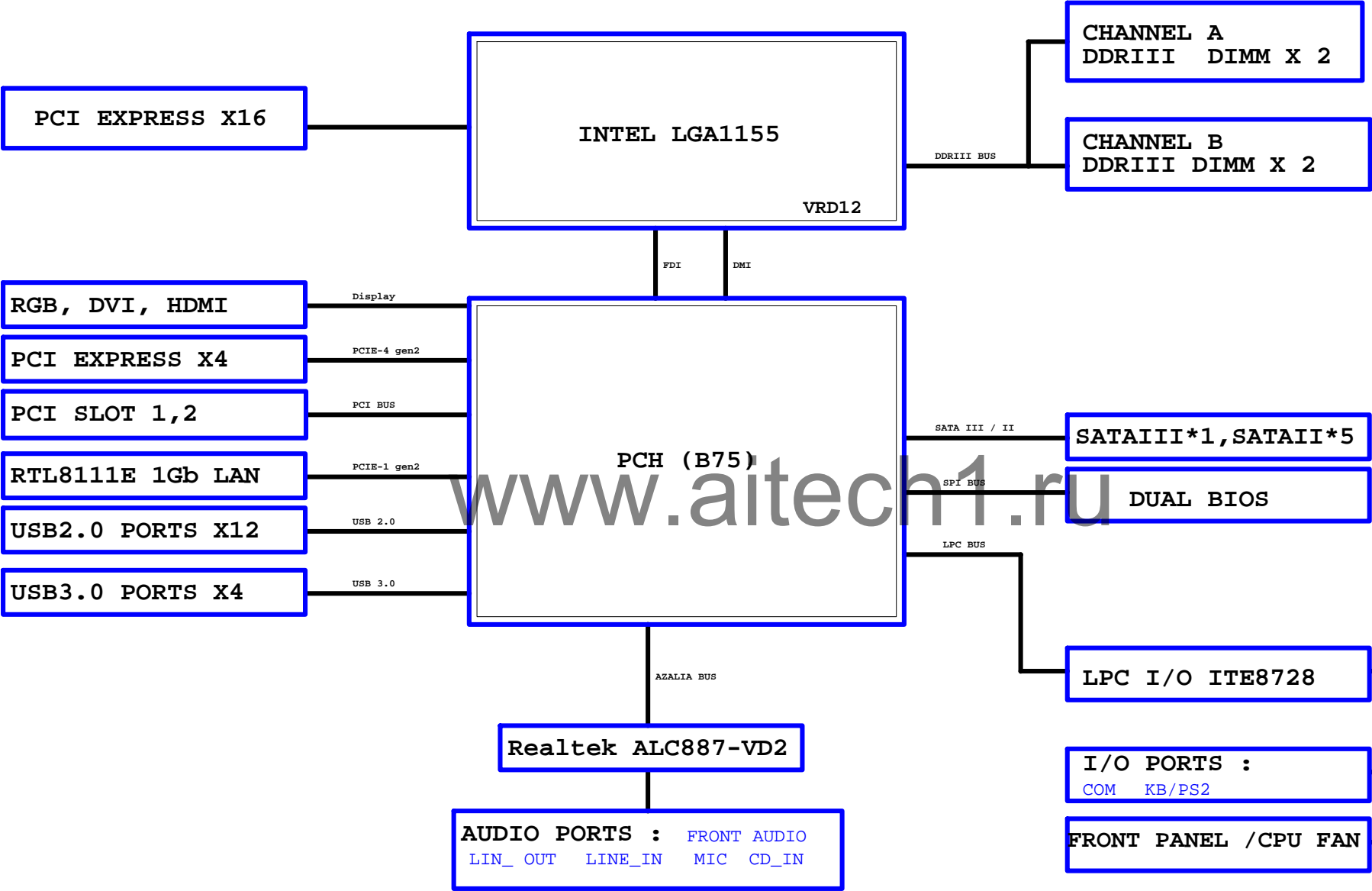
Cover Sheet		
Size Custom	Document Number GA-B75M-D3H	Rev 1.1
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Revision 1.1

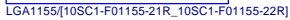
Component value change history

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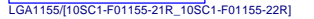
BLOCK DIAGRAM



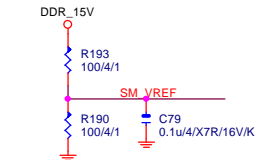
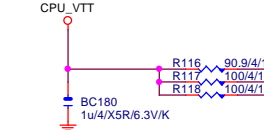
LGA1155E



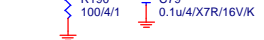
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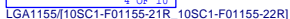
CPU SVID



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LGA1155D



-CPURST



Title			
CPU LGA1155-A			
Size	Document Number	Rev	
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LGA1155A

MAAA0 AV27 SA_MA[0]
MAAA1 AY24 SA_MA[1]
MAAA2 AW24 SA_MA[2]
MAAA3 AW23 SA_MA[3]
MAAA4 AV23 SA_MA[4]
MAAA5 AT24 SA_MA[5]
MAAA6 AT23 SA_MA[6]
MAAA7 AU22 SA_MA[7]
MAAA8 AV22 SA_MA[8]
MAAA9 AT22 SA_MA[9]
MAAA10 AU28 SA_MA[10]
MAAA11 AU21 SA_MA[11]
MAAA12 AT21 SA_MA[12]
MAAA13 AW32 SA_MA[13]
MAAA14 AU20 SA_MA[14]
MAAA15 AT20 SA_MA[15]

[7] -SWEA AW29 SA_WE#
[7] -SCASA AV30 SA_CAS#
[7] -SRASA AU28 SA_RAS#

[7] SBAA0 SBAA1 SBAA2
[7] SBAA0 SBAA1 SBAA2
[7] SBAA0 SBAA1 SBAA2

[7] -CSA0 CSA1 CSA2 CSA3
[7] -CSA0 CSA1 CSA2 CSA3
[7] -CSA0 CSA1 CSA2 CSA3
[7] -CSA0 CSA1 CSA2 CSA3

[7] CKEA0 CKEA1 CKEA2 CKEA3
[7] CKEA0 CKEA1 CKEA2 CKEA3
[7] CKEA0 CKEA1 CKEA2 CKEA3
[7] CKEA0 CKEA1 CKEA2 CKEA3

MODT_A0 AV31
MODT_A1 AU32
MODT_A2 AU30
MODT_A3 AW33

[7] DCLKA0 DCLKA1 DCLKA2 DCLKA3
[7] DCLKA0 DCLKA1 DCLKA2 DCLKA3
[7] DCLKA0 DCLKA1 DCLKA2 DCLKA3
[7] DCLKA0 DCLKA1 DCLKA2 DCLKA3

[7,8] -DDR3_RST -DDR3_RST

SM_DRAMRST#

AV13 AV12
AV12 AV13
AV13 AV12
AV13 AV12
AV13 AV12
AV13 AV12
AV13 AV12
AV13 AV12

DDR_0

1 OF 10

LGA1155(10SC1-F01155-21R_10SC1-F01155-22R)

LGA1155B

MAAB0 AK24 SB_MA[0]
MAAB1 AM20 SB_MA[1]
MAAB2 AM19 SB_MA[2]
MAAB3 AK18 SB_MA[3]
MAAB4 AP19 SB_MA[4]
MAAB5 AP18 SB_MA[5]
MAAB6 AM18 SB_MA[6]
MAAB7 AL18 SB_MA[7]
MAAB8 AN18 SB_MA[8]
MAAB9 AY17 SB_MA[9]
MAAB10 AV23 SB_MA[10]
MAAB11 AU17 SB_MA[11]
MAAB12 AT18 SB_MA[12]
MAAB13 AR26 SB_MA[13]
MAAB14 AY16 SB_MA[14]
MAAB15 AV16 SB_MA[15]

[8] -SWEB SCASB -SRASB
[8] -SWEB SCASB -SRASB
[8] -SWEB SCASB -SRASB

[8] SBAB0 SBAB1 SBAB2
[8] SBAB0 SBAB1 SBAB2
[8] SBAB0 SBAB1 SBAB2

[8] -CSB0 CSB1 CSB2 CSB3
[8] -CSB0 CSB1 CSB2 CSB3
[8] -CSB0 CSB1 CSB2 CSB3
[8] -CSB0 CSB1 CSB2 CSB3

[8] CKEB0 CKEB1 CKEB2 CKEB3
[8] CKEB0 CKEB1 CKEB2 CKEB3
[8] CKEB0 CKEB1 CKEB2 CKEB3
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MODT_B0 AP26
MODT_B1 AP28
MODT_B2 AK26
MODT_B3 AK26

[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3
[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3
[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3
[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3

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[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3
[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3
[8] DCLKB0 DCLKB1 DCLKB2 DCLKB3

VREF_DQA VREF_DQB
VREF_DQA VREF_DQB
VREF_DQA VREF_DQB

AN16 AN15
AN16 AN15
AN16 AN15
AN16 AN15

AV37 AV36
AV37 AV36
AV37 AV36
AV37 AV36

AP38 AP39
AP38 AP39
AP38 AP39
AP38 AP39

AR40 AR37 AR38 AR39 AR40
AR40 AR37 AR38 AR39 AR40
AR40 AR37 AR38 AR39 AR40
AR40 AR37 AR38 AR39 AR40

AK38 AK39
AK38 AK39
AK38 AK39
AK38 AK39

AL40 AL37 AL38 AL39 AL40
AL40 AL37 AL38 AL39 AL40
AL40 AL37 AL38 AL39 AL40
AL40 AL37 AL38 AL39 AL40

AF38 AF39
AF38 AF39
AF38 AF39
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AG40 AG37 AG38 AG39 AG40
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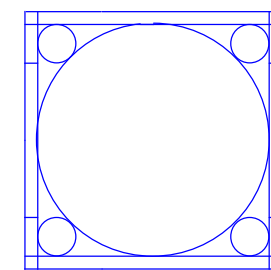
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AE40 AE39 AE38 AE37 AE36
AE40 AE39 AE38 AE37 AE36
AE40 AE39 AE38 AE37 AE36

DDR_1

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LGA1155(10SC1-F01155-21R_10SC1-F01155-22R)

CR
CPU RETENTION/X

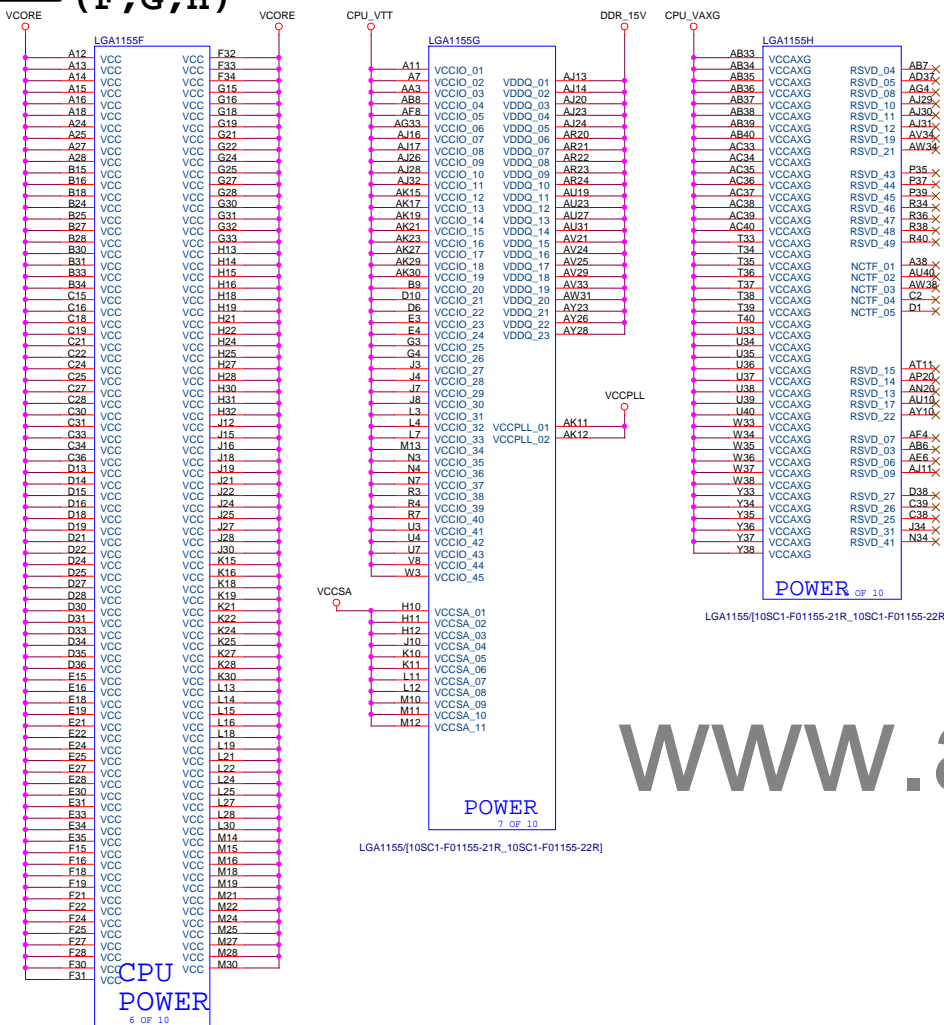
LGA1155_P



ILM_BP/1156/CSP/ILM_BP/1156/CSP(12KRC-0F0001-05R_12KRC-0F0001-31R)

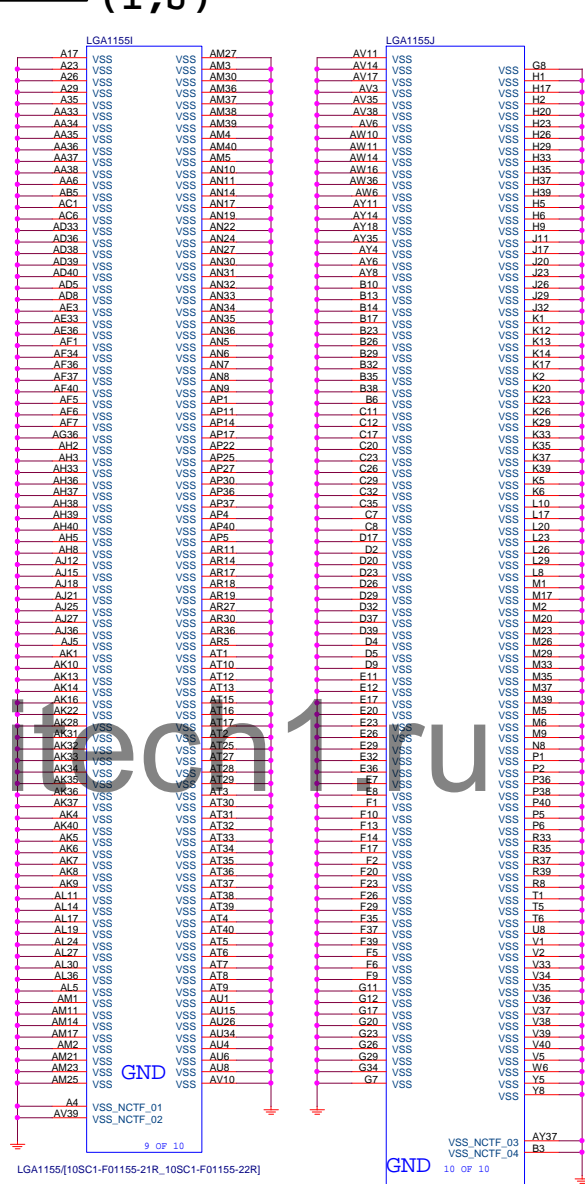
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Title CPU LGA1156-B		
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LGA1155 (F,G,H)



LGA1155/[10SC1-F01155-21R_10SC1-F01155-22R]

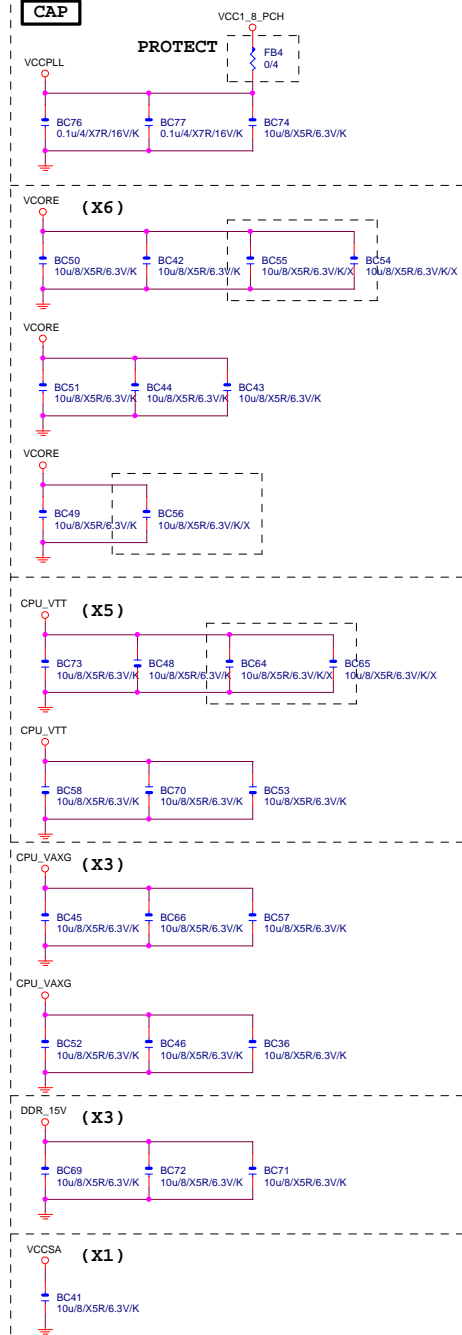
LGA1155 (I,J)



LGA1155/[10SC1-F01155-21R_10SC1-F01155-22R]

IGA1155/(10SC1-E01155-21B 10SC1-E01155-22B)

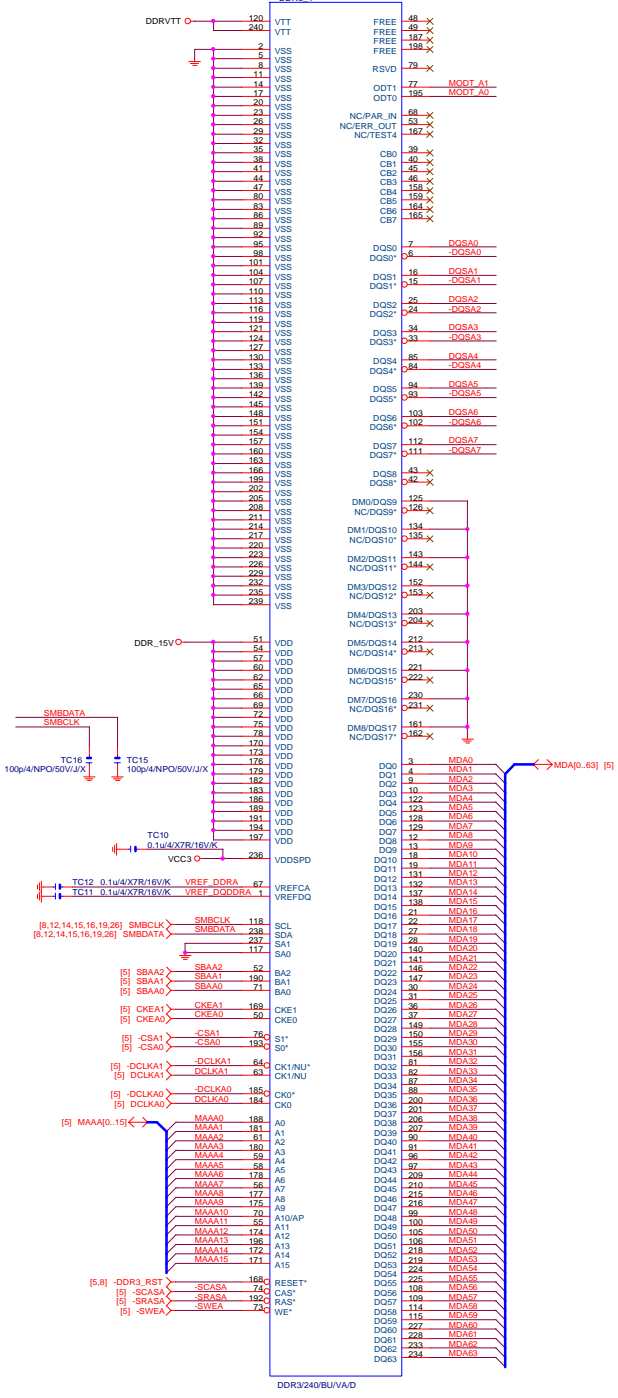
CAP



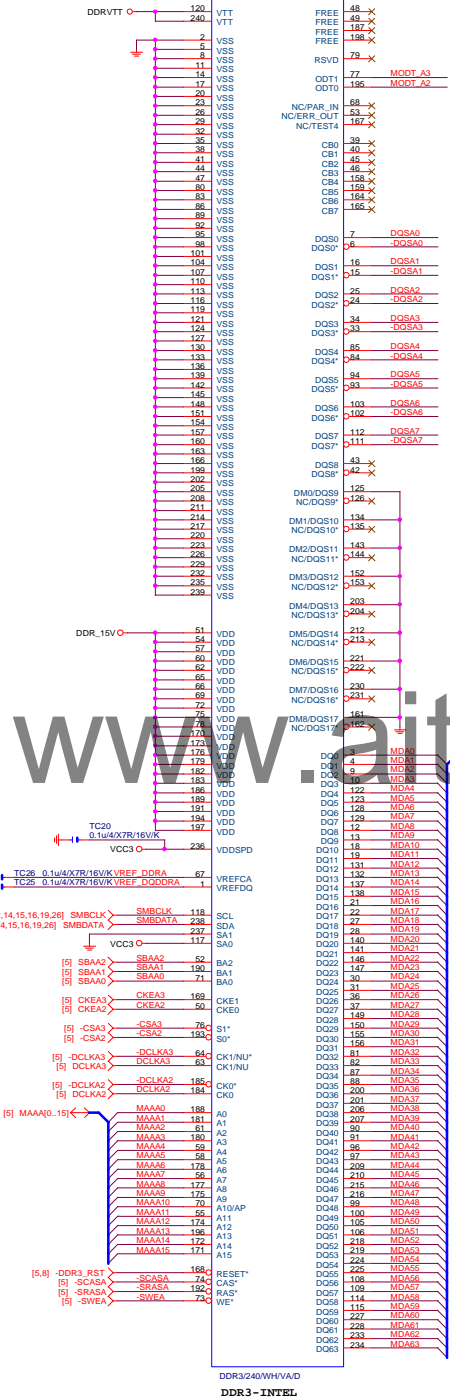
Gigabyte Technology				
Title				
CPU LGA1156-C				
Size	Document Number	GA-B75M-D3H		Rev
Custom				1.1
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DDR3

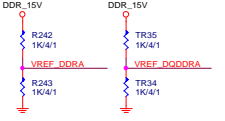
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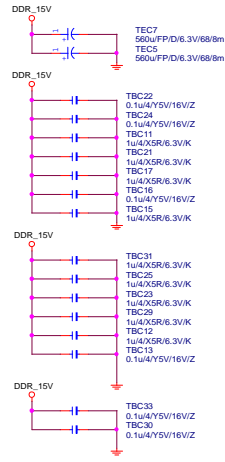
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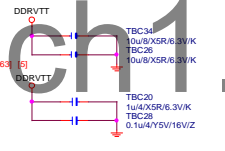
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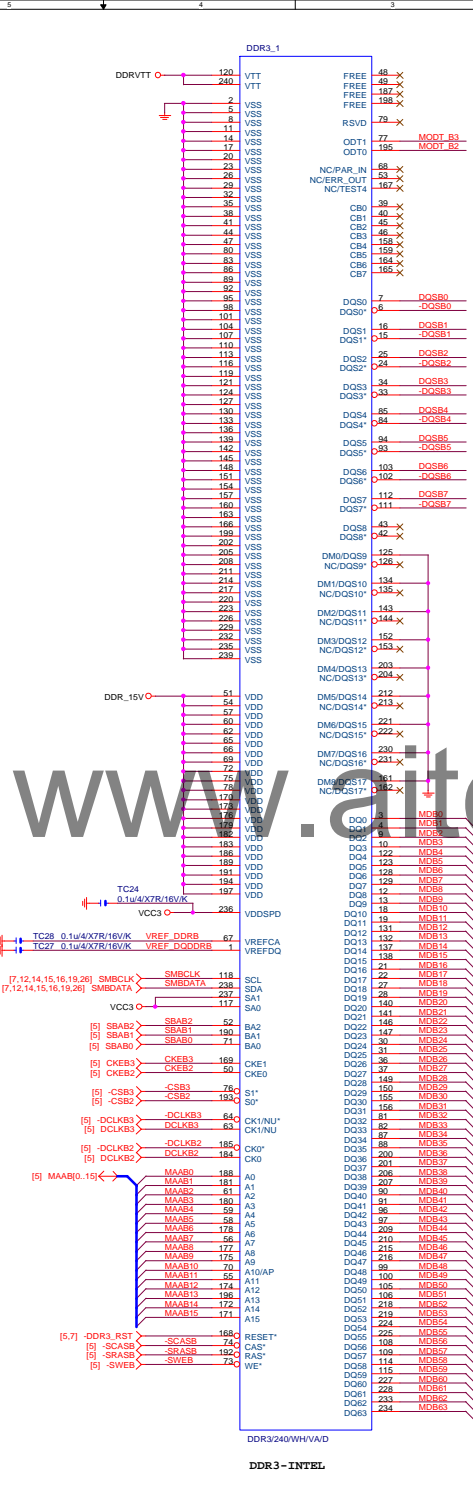


DDR15V Decouple



DDRVT Decouple

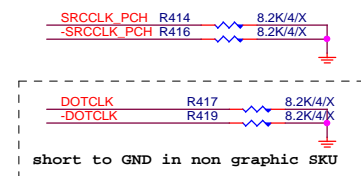




(B)



(G)



(E)

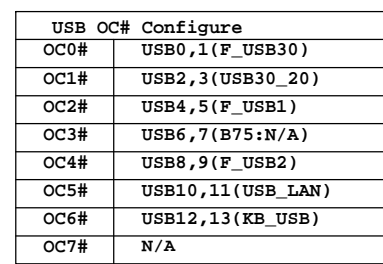
SB HEATSIN



NVRAM



USB TABLE



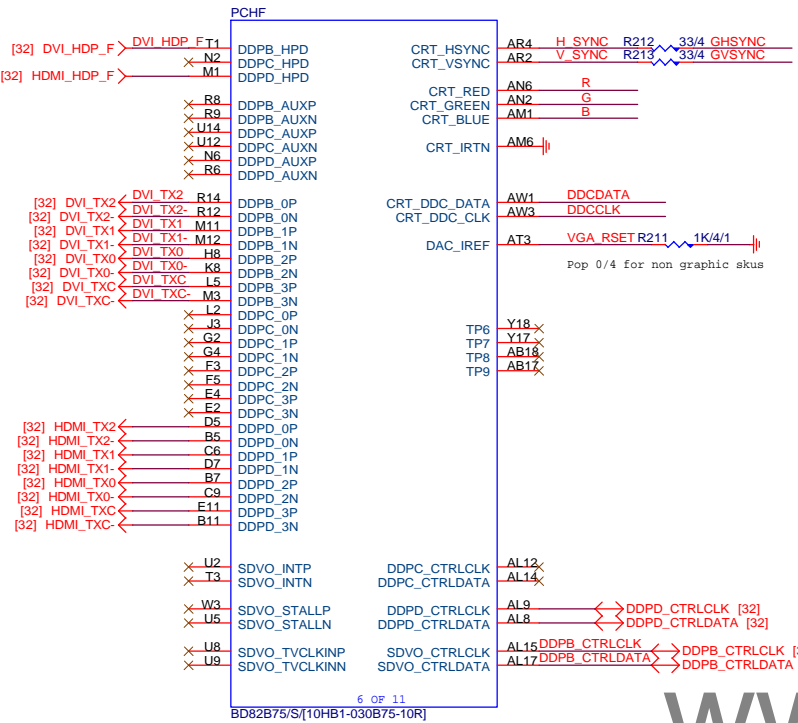
PCH FDI,DMI,USB ,PCIE,NVRAM

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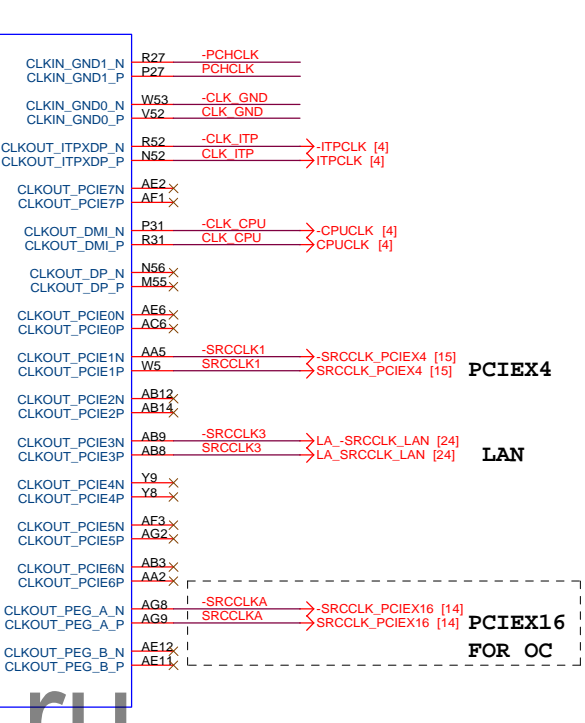
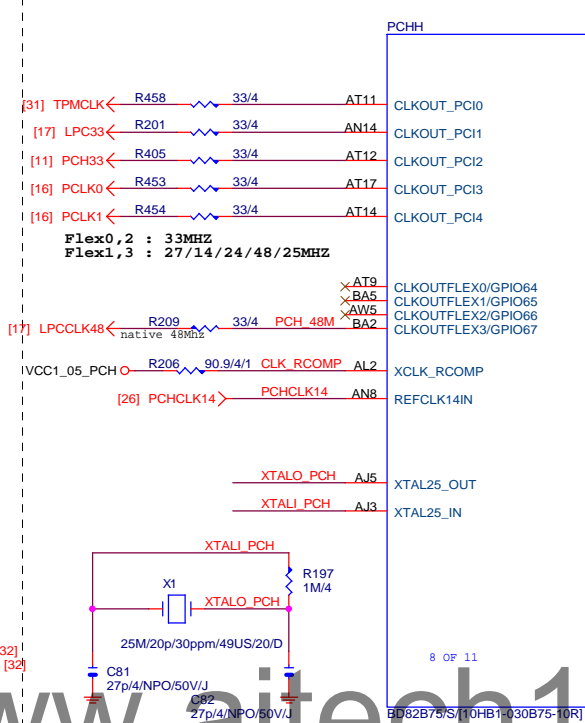
PCH

(F)

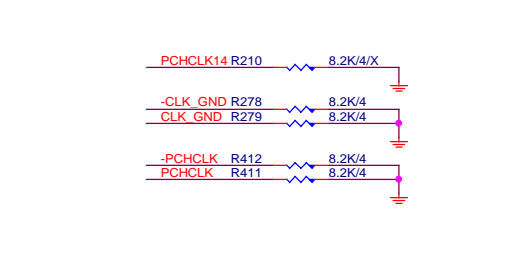


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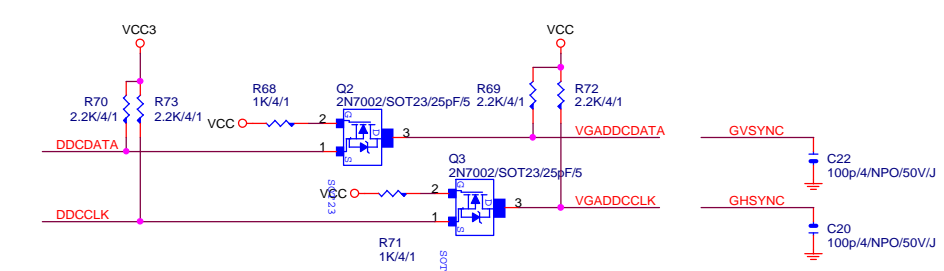
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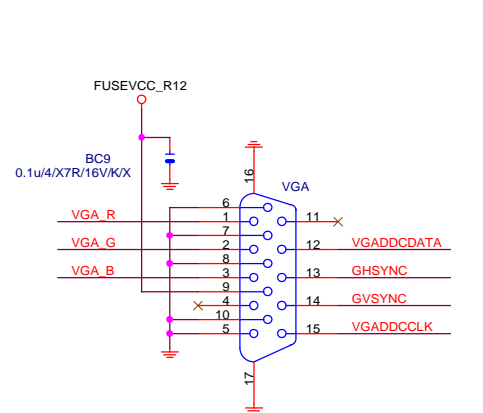
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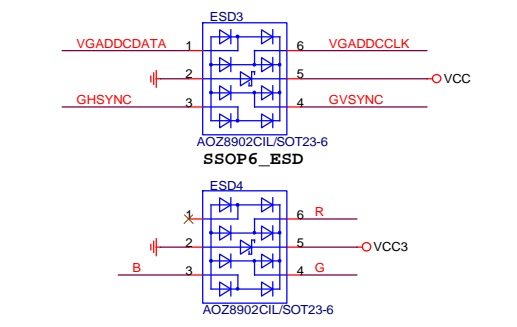
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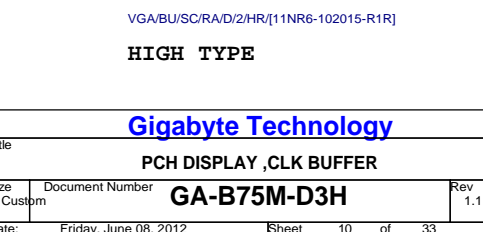
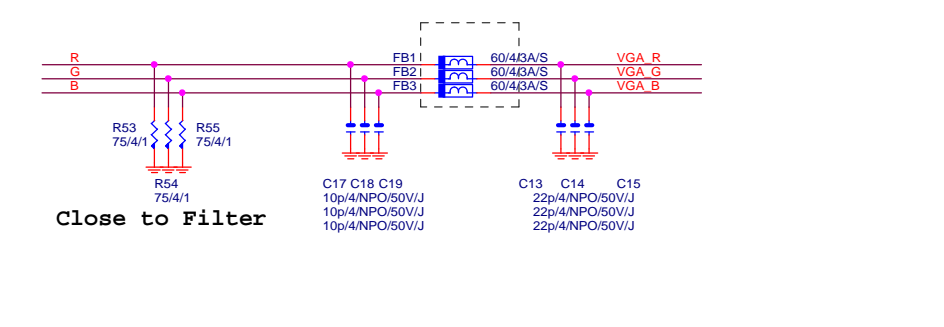
VGA CONNECTOR



VGA ESD



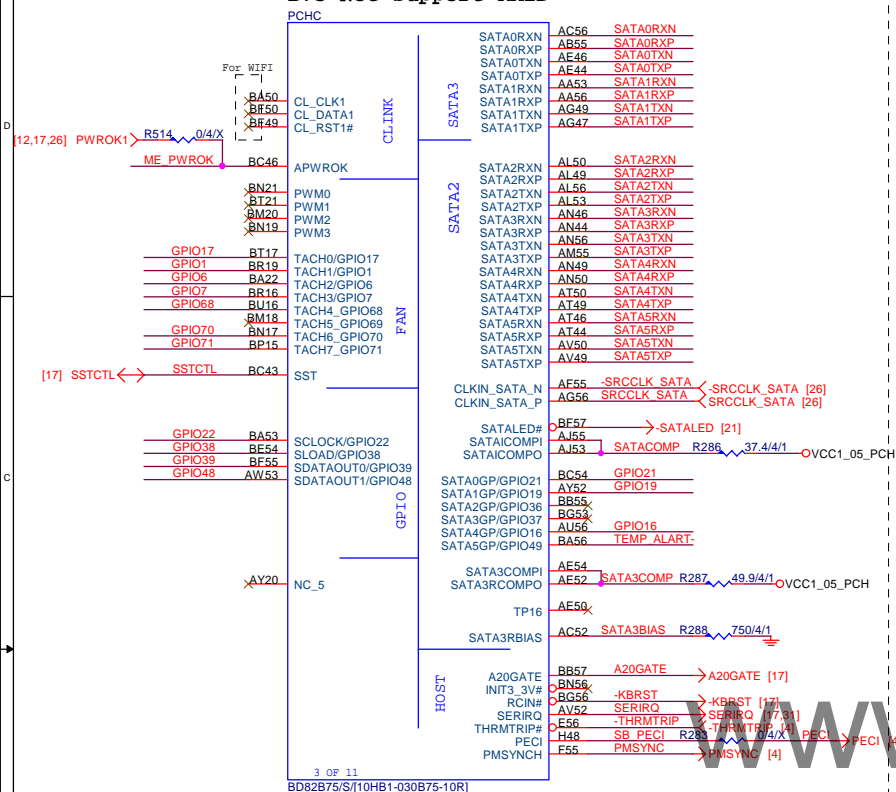
VGA DDC



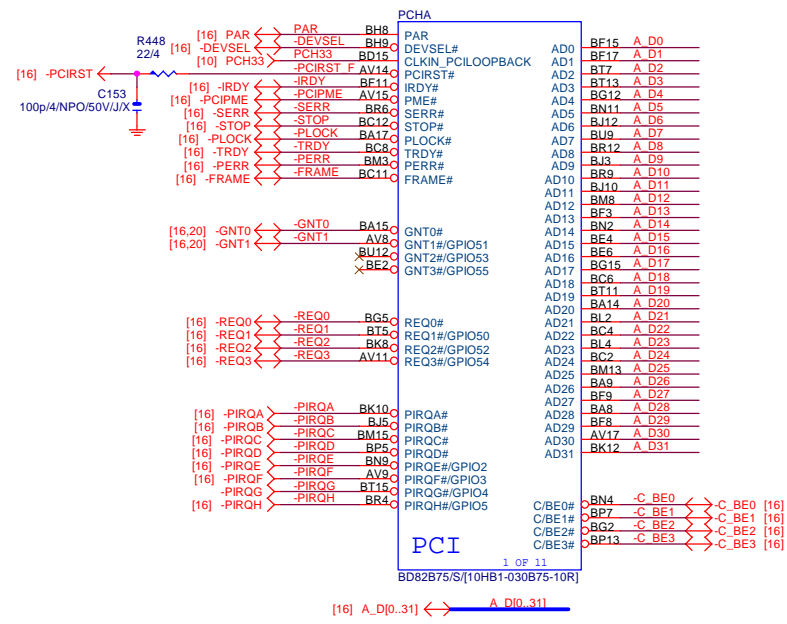
Gigabyte Technology			
Title			
PCH DISPLAY ,CLK BUFFER			
Size	Document Number	GA-B75M-D3H	
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(C)

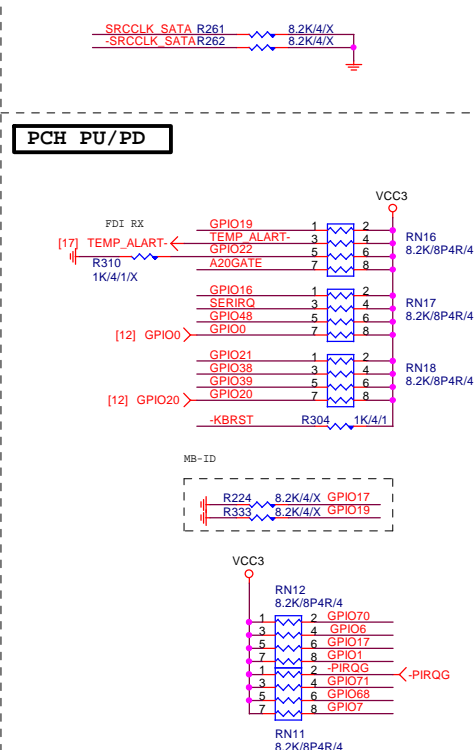
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B75 SATA3.0 ONLY PORT0
B75 Not Support RAID
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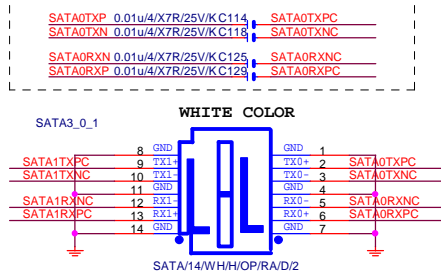


PCH	CLK	PD
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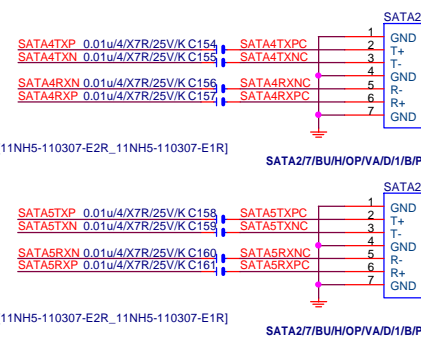
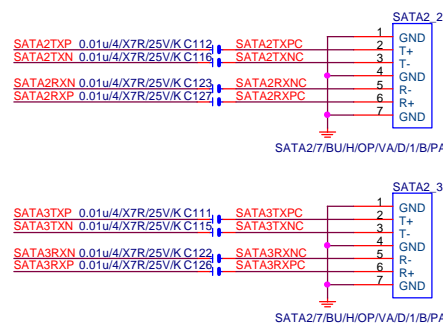


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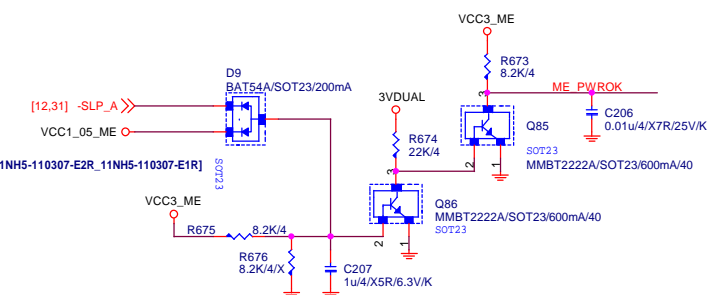
B75 SATA 3.0



B75 SATA 2.0



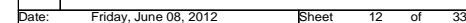
ME PWROK



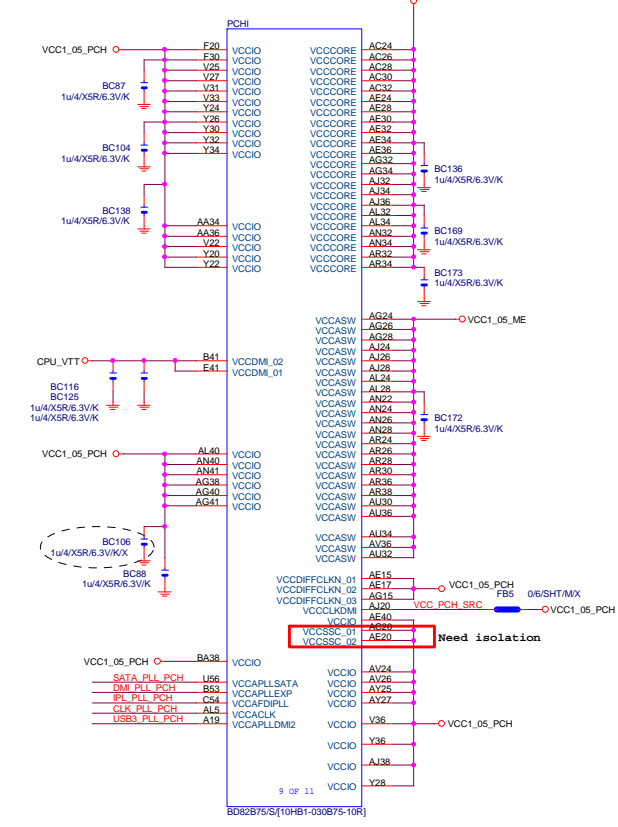
Gigabyte Technology

Title				PCH HOST , SATA, PCI				Rev	
Size		Document Number		GA-B75M-D3H				1.1	
Custom									
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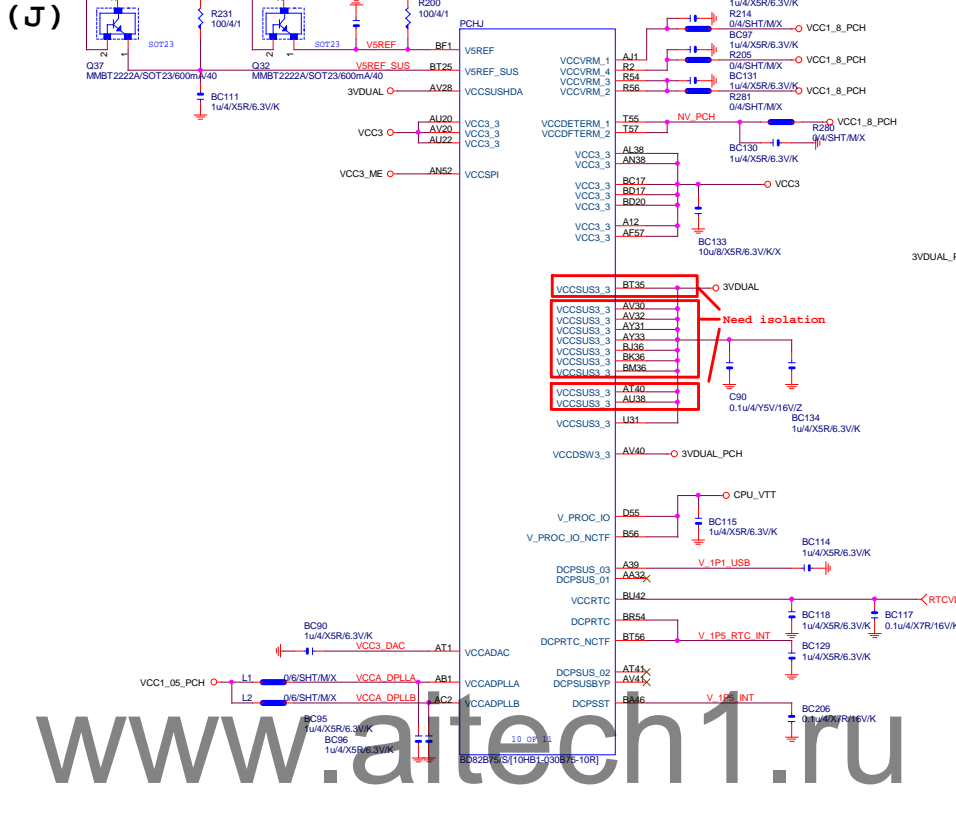
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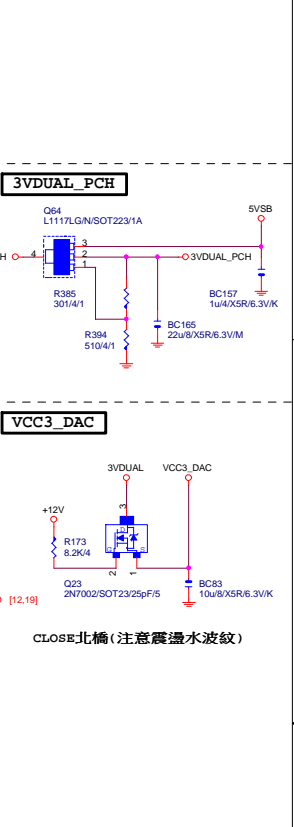
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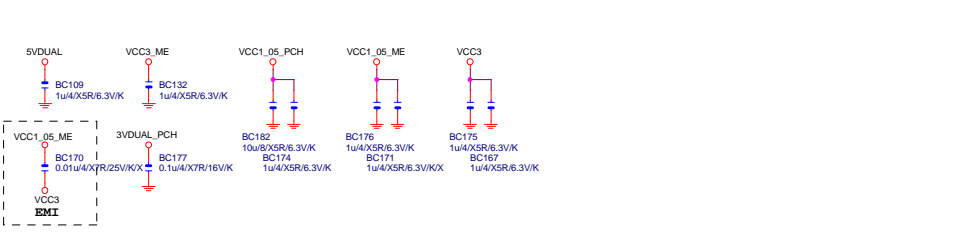
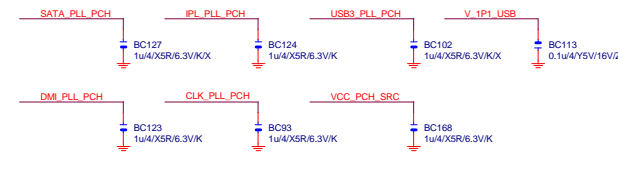
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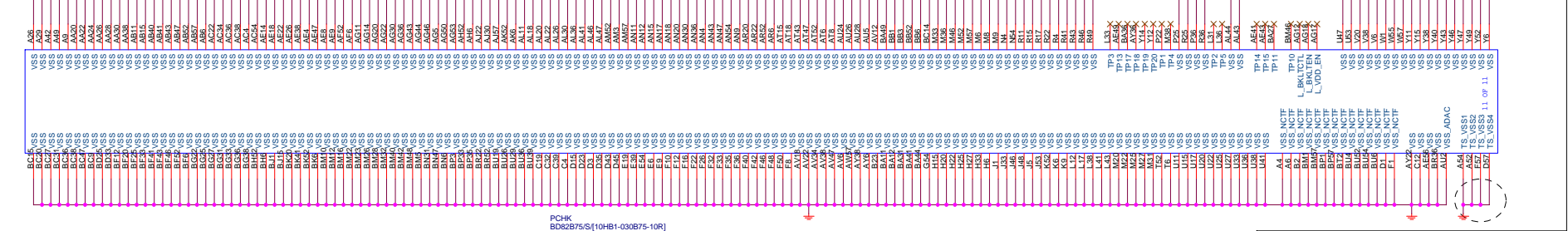
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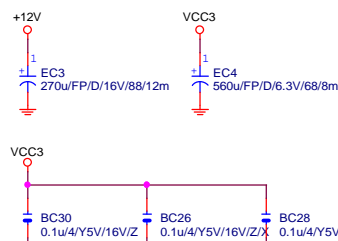
CAP



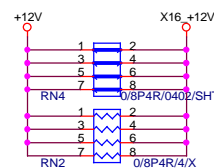
PCH (I)



PCIEX16 CAP



PCIEX16 PROTECT SHT

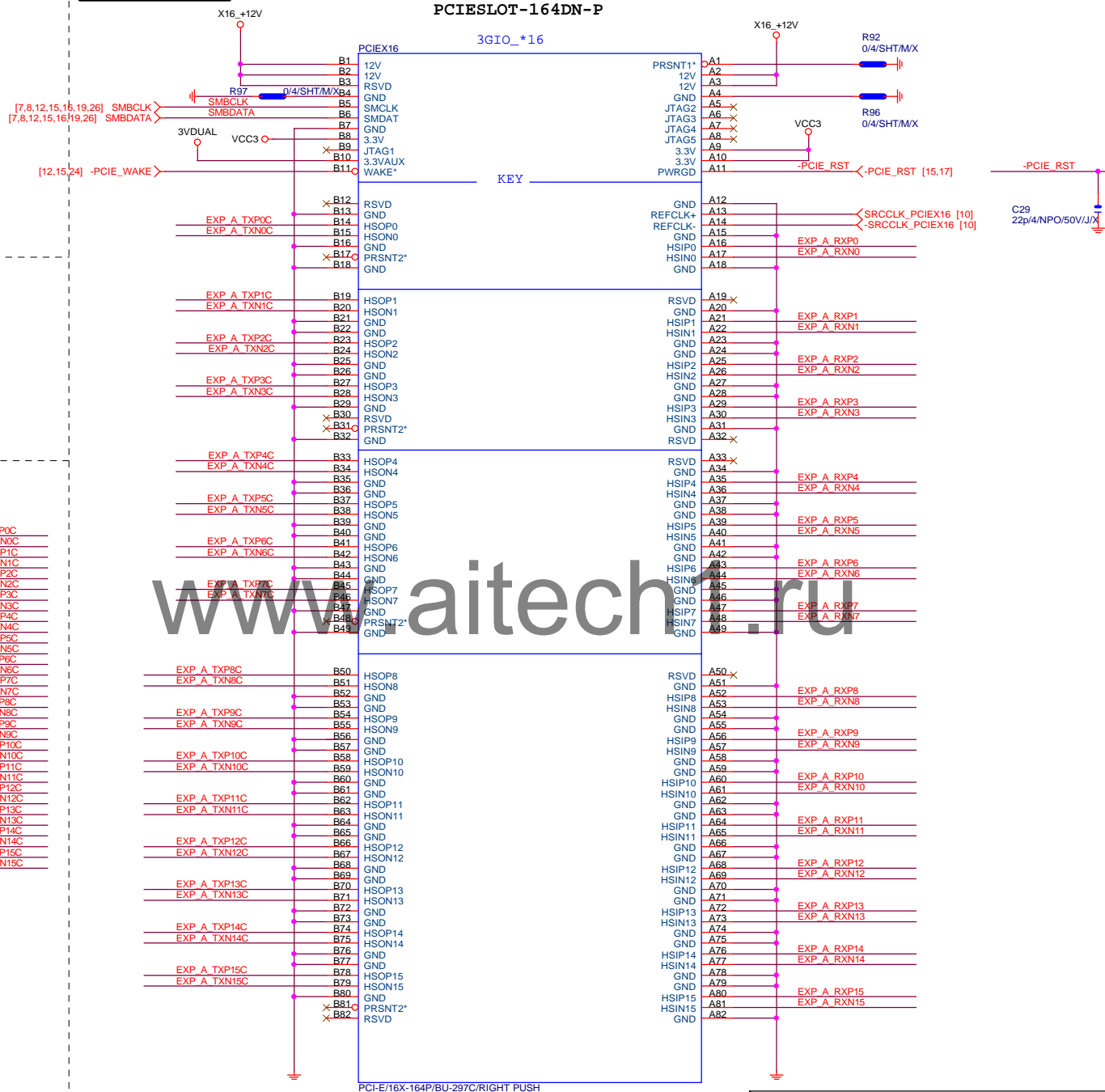


PCIEX16 AC CAP

EXP A TXP0	C32	0.22u4/X5R/6.3V/K	EXP A TXP0C
EXP A TXN0	C30	0.22u4/X5R/6.3V/K	EXP A TXN0C
EXP A TXP1	C35	0.22u4/X5R/6.3V/K	EXP A TXP1C
EXP A TXN1	C37	0.22u4/X5R/6.3V/K	EXP A TXN1C
EXP A TXP2	C39	0.22u4/X5R/6.3V/K	EXP A TXP2C
EXP A TXN2	C41	0.22u4/X5R/6.3V/K	EXP A TXN2C
EXP A TXP3	C43	0.22u4/X5R/6.3V/K	EXP A TXP3C
EXP A TXN3	C45	0.22u4/X5R/6.3V/K	EXP A TXN3C
EXP A TXP4	C46	0.22u4/X5R/6.3V/K	EXP A TXP4C
EXP A TXN4	C49	0.22u4/X5R/6.3V/K	EXP A TXN4C
EXP A TXP5	C50	0.22u4/X5R/6.3V/K	EXP A TXP5C
EXP A TXN5	C51	0.22u4/X5R/6.3V/K	EXP A TXN5C
EXP A TXP6	C52	0.22u4/X5R/6.3V/K	EXP A TXP6C
EXP A TXN6	C54	0.22u4/X5R/6.3V/K	EXP A TXN6C
EXP A TXP7	C57	0.22u4/X5R/6.3V/K	EXP A TXP7C
EXP A TXN7	C58	0.22u4/X5R/6.3V/K	EXP A TXN7C
EXP A TXP8	C60	0.22u4/X5R/6.3V/K	EXP A TXP8C
EXP A TXN8	C61	0.22u4/X5R/6.3V/K	EXP A TXN8C
EXP A TXP9	C62	0.22u4/X5R/6.3V/K	EXP A TXP9C
EXP A TXN9	C63	0.22u4/X5R/6.3V/K	EXP A TXN9C
EXP A TXP10	C64	0.22u4/X5R/6.3V/K	EXP A TXP10C
EXP A TXN10	C65	0.22u4/X5R/6.3V/K	EXP A TXN10C
EXP A TXP11	C66	0.22u4/X5R/6.3V/K	EXP A TXP11C
EXP A TXN11	C67	0.22u4/X5R/6.3V/K	EXP A TXN11C
EXP A TXP12	C68	0.22u4/X5R/6.3V/K	EXP A TXP12C
EXP A TXN12	C70	0.22u4/X5R/6.3V/K	EXP A TXN12C
EXP A TXP13	C72	0.22u4/X5R/6.3V/K	EXP A TXP13C
EXP A TXN13	C73	0.22u4/X5R/6.3V/K	EXP A TXN13C
EXP A TXP14	C74	0.22u4/X5R/6.3V/K	EXP A TXP14C
EXP A TXN14	C75	0.22u4/X5R/6.3V/K	EXP A TXN14C
EXP A TXP15	C77	0.22u4/X5R/6.3V/K	EXP A TXP15C
EXP A TXN15	C78	0.22u4/X5R/6.3V/K	EXP A TXN15C

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EXP A RXN[0..15]    >>> EXP_A_RXN[0..15] [4]
EXP A TXP[0..15]    >>> EXP_A_TXP[0..15] [4]
EXP A TXN[0..15]    >>> EXP_A_TXN[0..15] [4]
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PCIEX16 SLOT



PCI-E/16X-164P/BU-297C/RIGHT PUSH

Gigabyte Technology

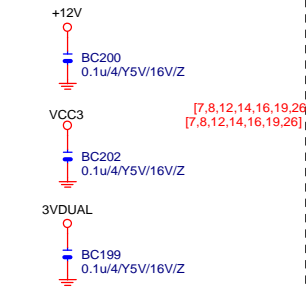
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PCI EXPRESS * 16			
Size Custom	Document Number	GA-B75M-D3H	Rev 1.
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PCIEX4 CAP

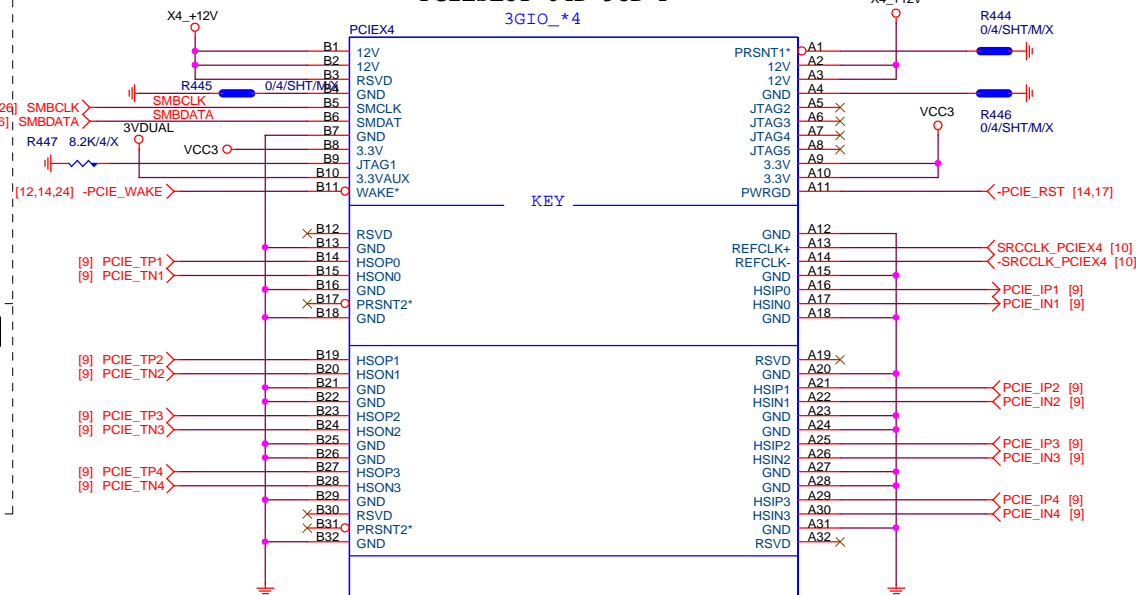
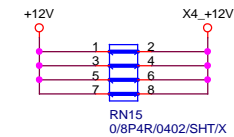
PCIEX4 SLOT

PCIESLOT-64D-98D-P

3GIO_*4



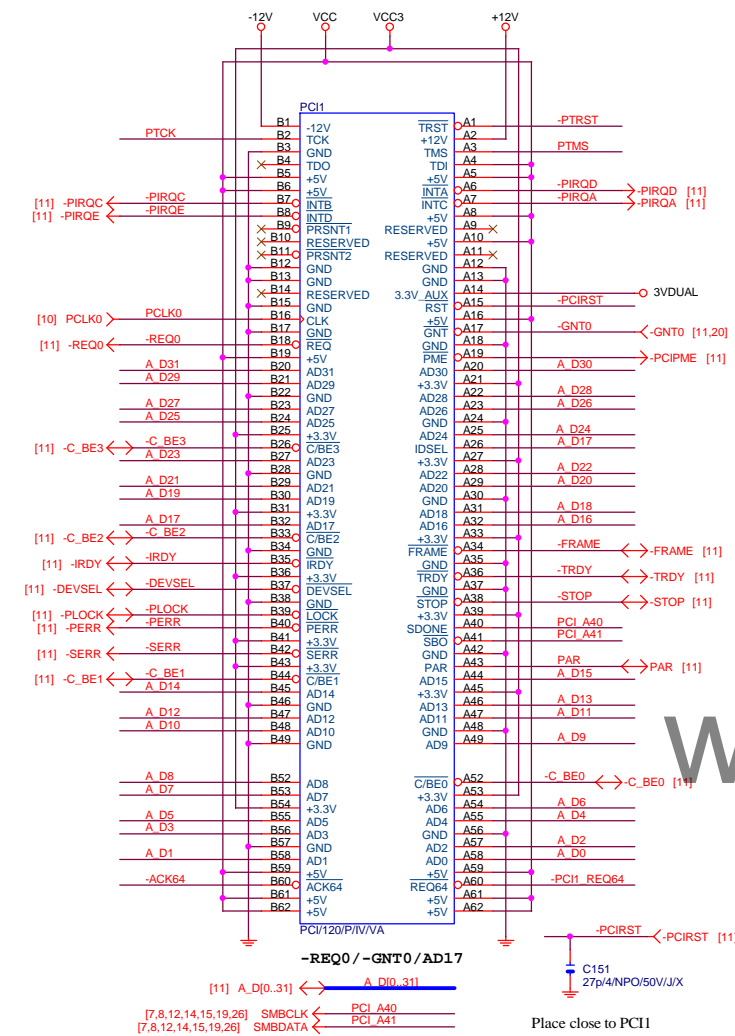
PCIEX16 PROTECT SHT



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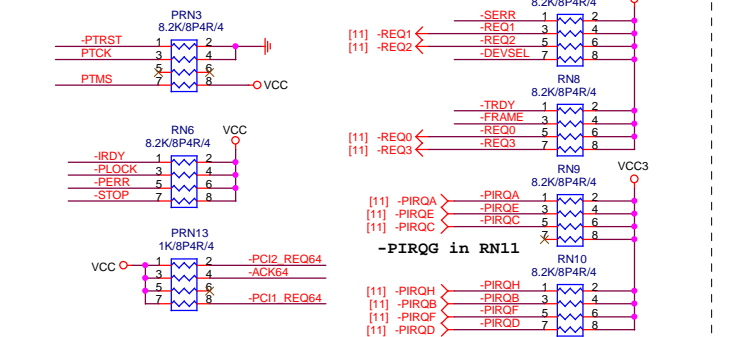
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GA-B75M-D3H			
Rev			
1.1			
Date:	Friday, June 08, 2012	Sheet	15 of 33

PCI SLOT

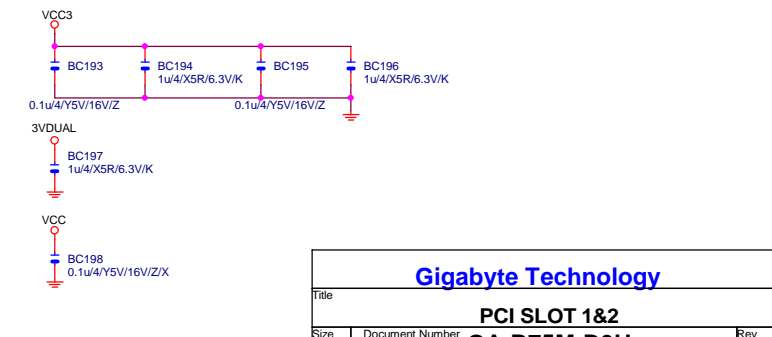


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PCI PU

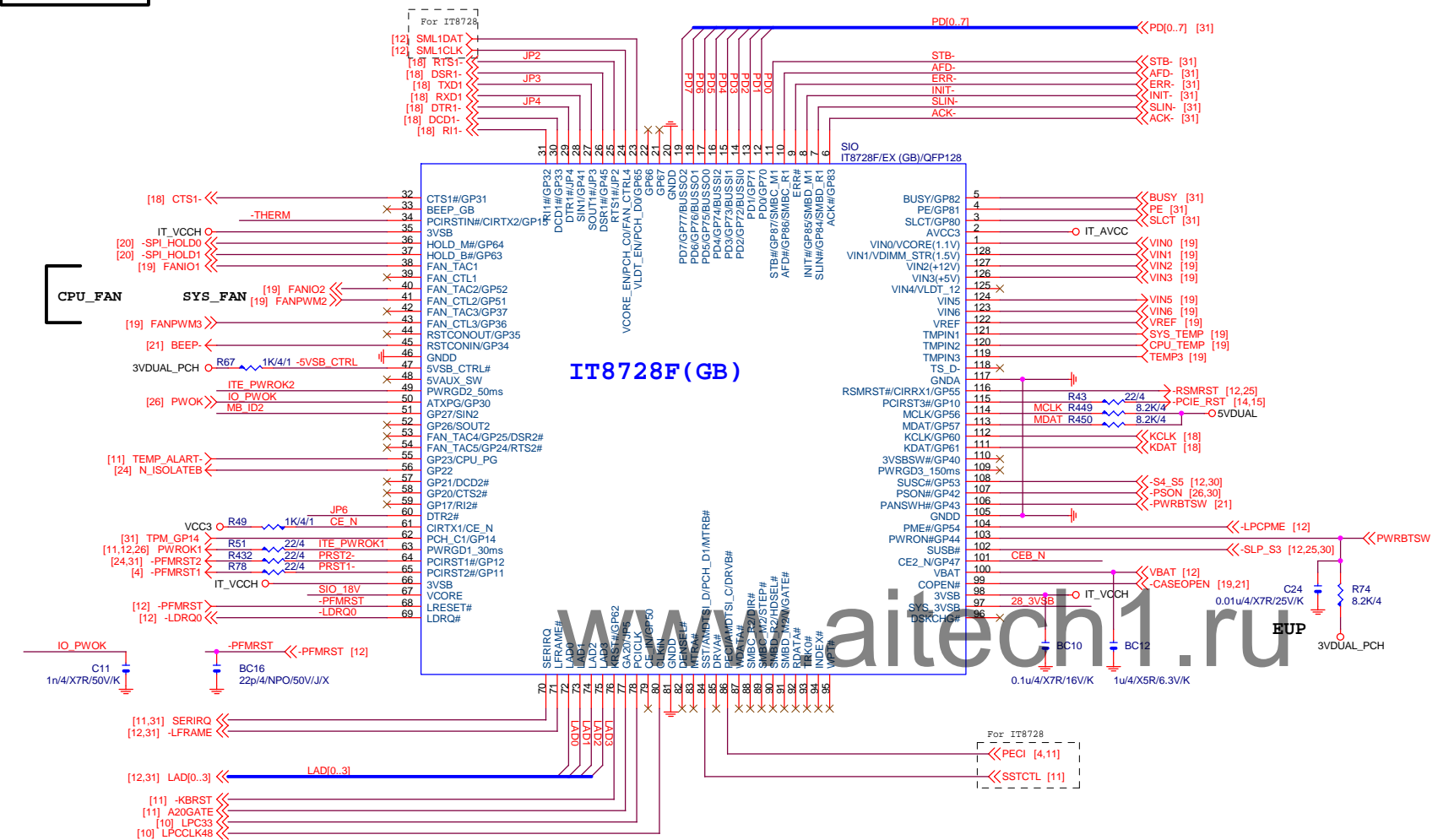


PCI CAP

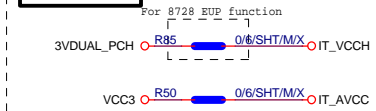


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Size			
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Document Number			
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Friday, June 08, 2012			
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16 of 33			
Rev			
1.1			

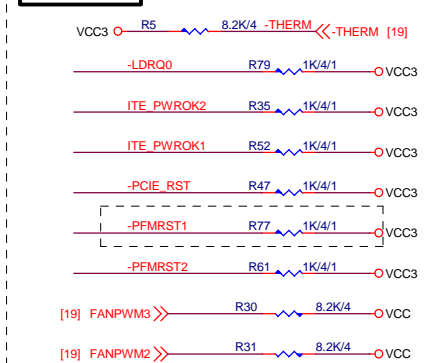
SIO IT8728F



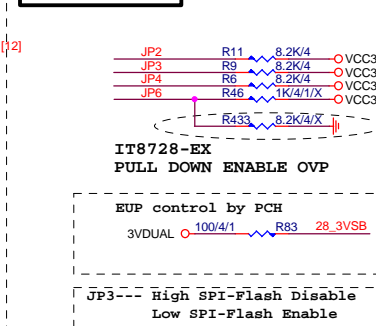
PWR	SHT
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SIO	PU
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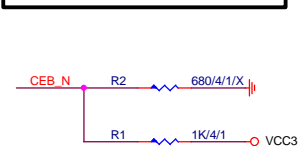
SIO STRAP



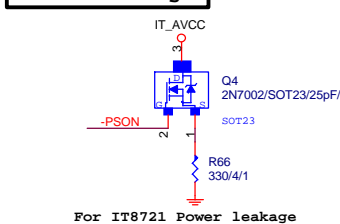
IT8728F NOTE

	IT8728
PIN121	VCORE_EN/PCH_C0
PIN120	VLDT_EN/PCH_D0
PIN19	ATXPG
PIN31	PCCH_C1
PIN53	SST/AMDTSI_D/MTRB#/PCH_D1
PIN55	PECI/AMDTSI_C/DRV#
PIN66	SYS_3V5B
PIN70	GP47
PIN95	VIN2(VCC5)
PIN96	VIN1(VCC12)
PIN97	VIN1/VDIMM_STR(1.5V)
PIN98	VIN0/VCORE(1.1V)/NC

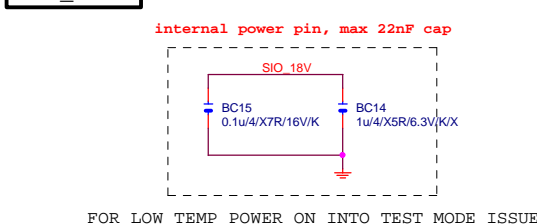
DUAL BIOS OPT STRAP



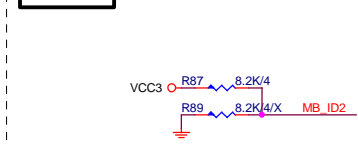
Power leakage



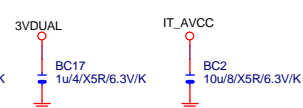
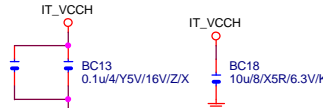
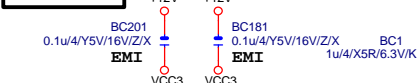
SIO_18V



MB ID

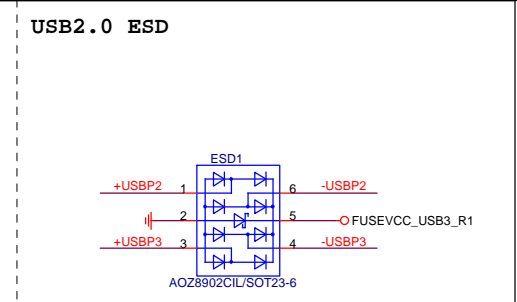
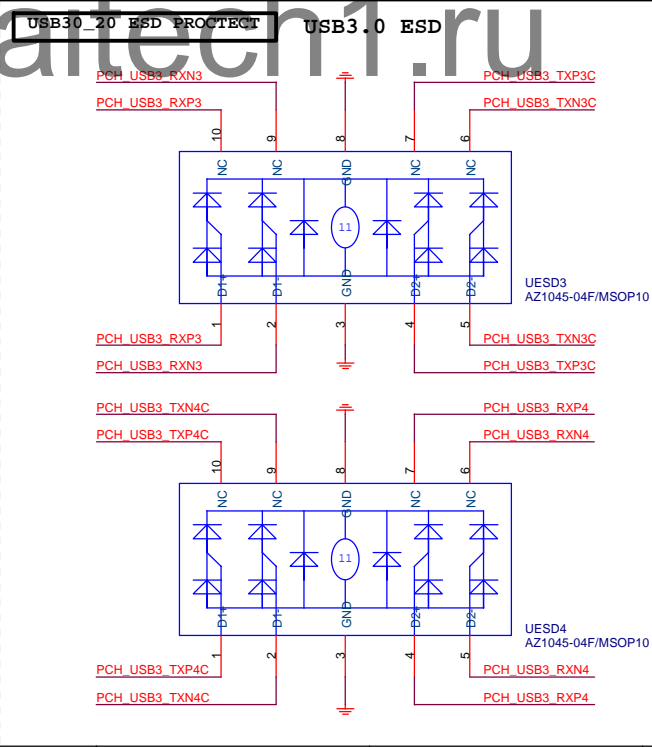
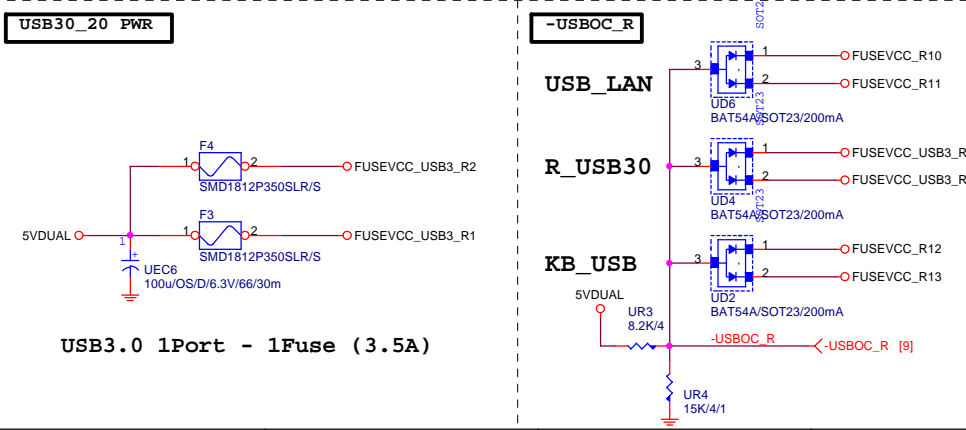
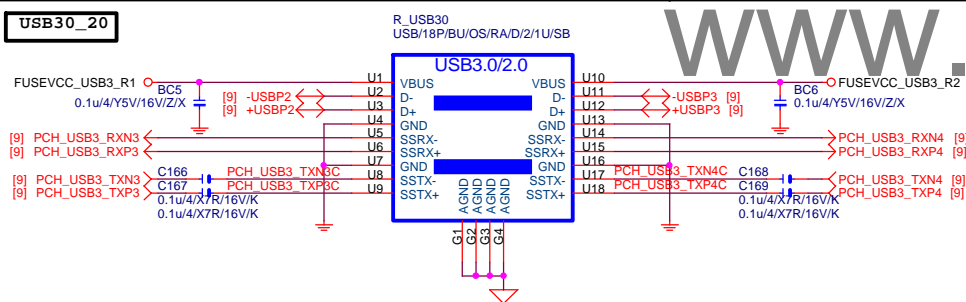
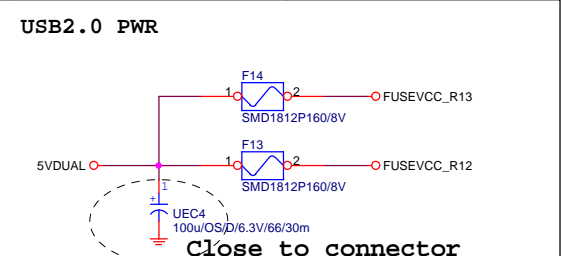
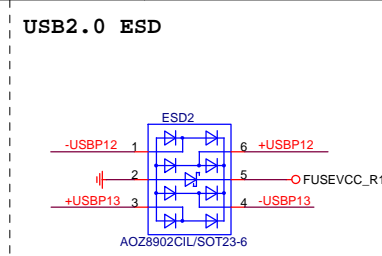
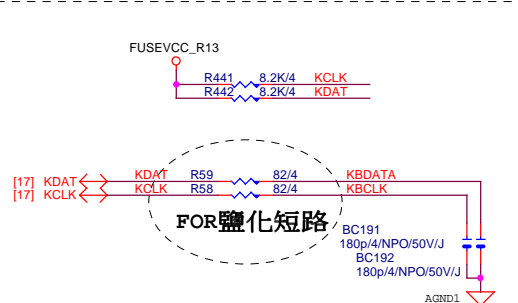
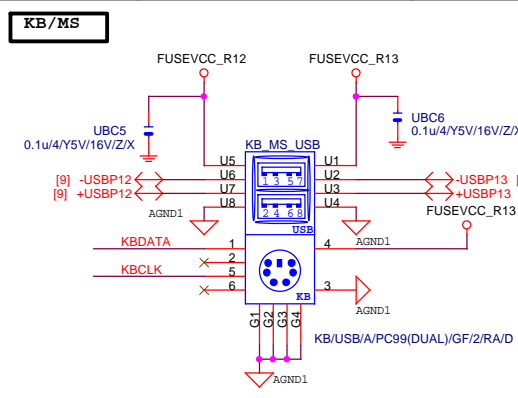
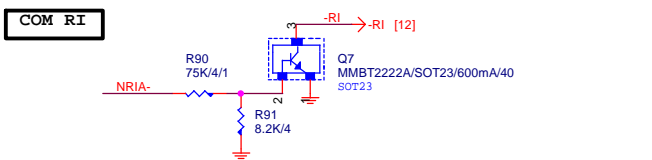
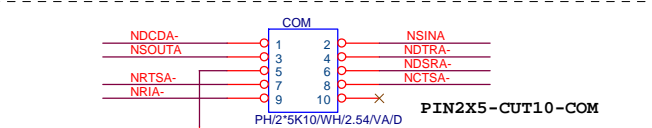
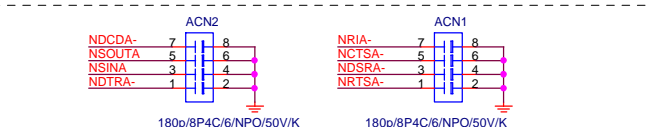
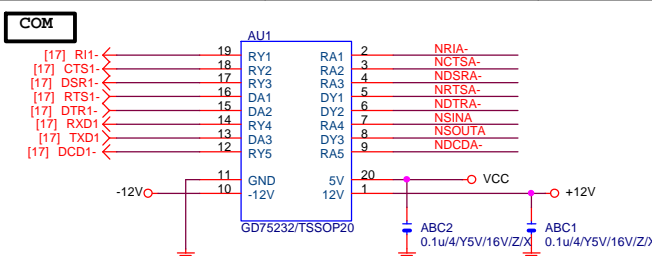


SIO	CAP
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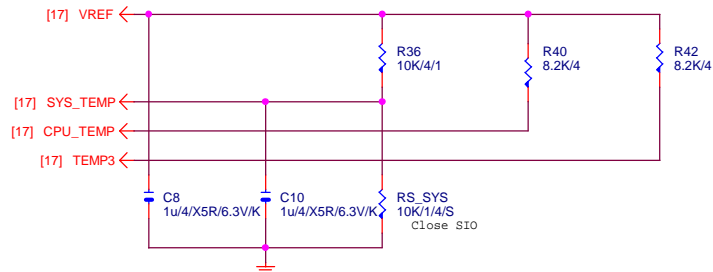
Gigabyte Technology

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Size	Document Number		Rev
Custom	GA-B75M-D3H		1.1
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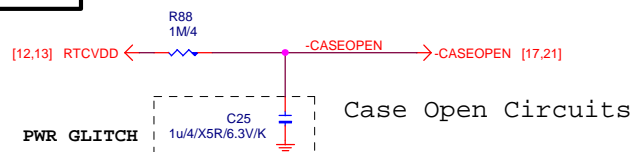


Gigabyte Technology			
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COM,-RI,KB_USB,USB_ESATA,-PROCHOT			
Size			
Custom			
Document Number			
GA-B75M-D3H			
Rev			
1.1			
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TEMP H/W MONITOR

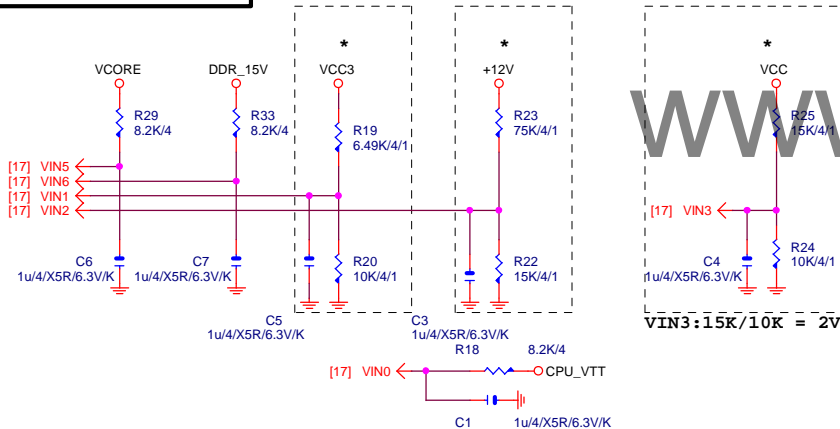


CASE OPEN

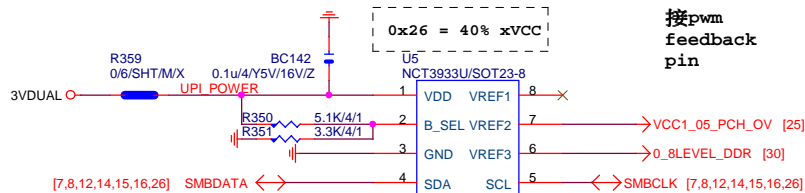


VOLTAGE-- H/W MONITOR

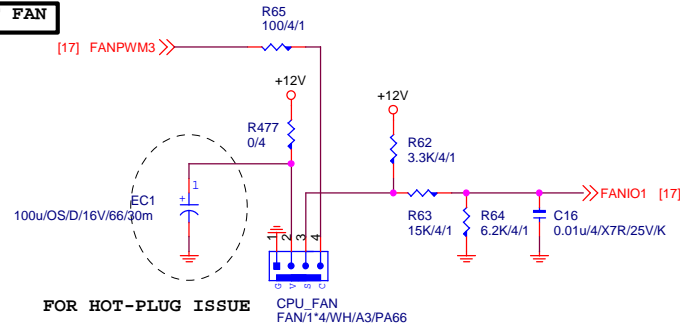
VIN2:75K/15K = 2V



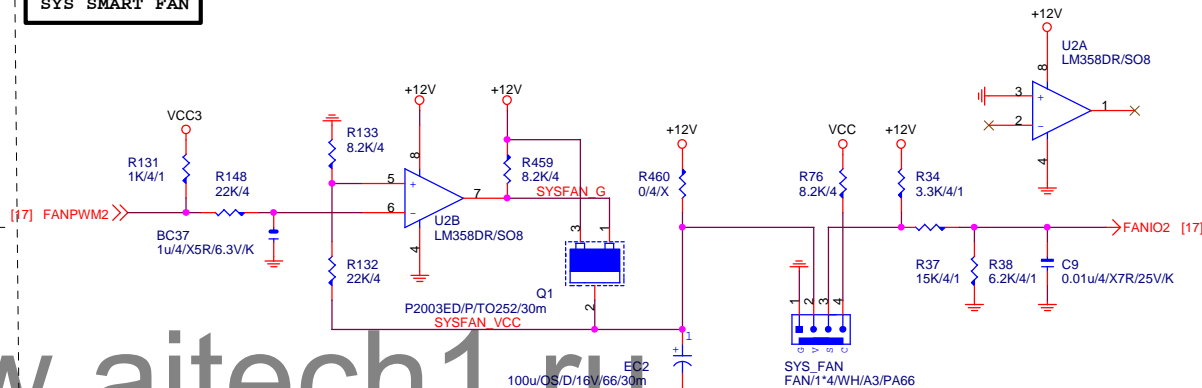
OV NCT3933



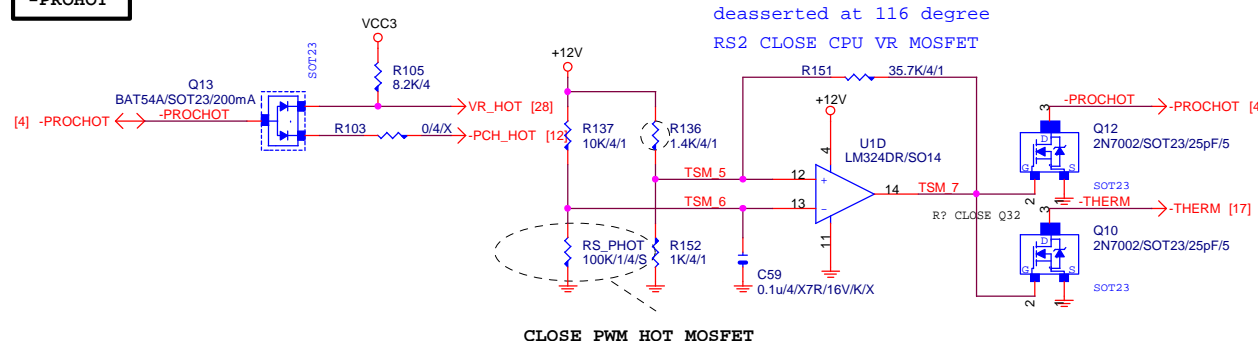
CPU SMART FAN



SYS SMART FAN



-PROHOT



Gigabyte Technology

HWM,FAN CTRL,OV

GA-B75M-D3H

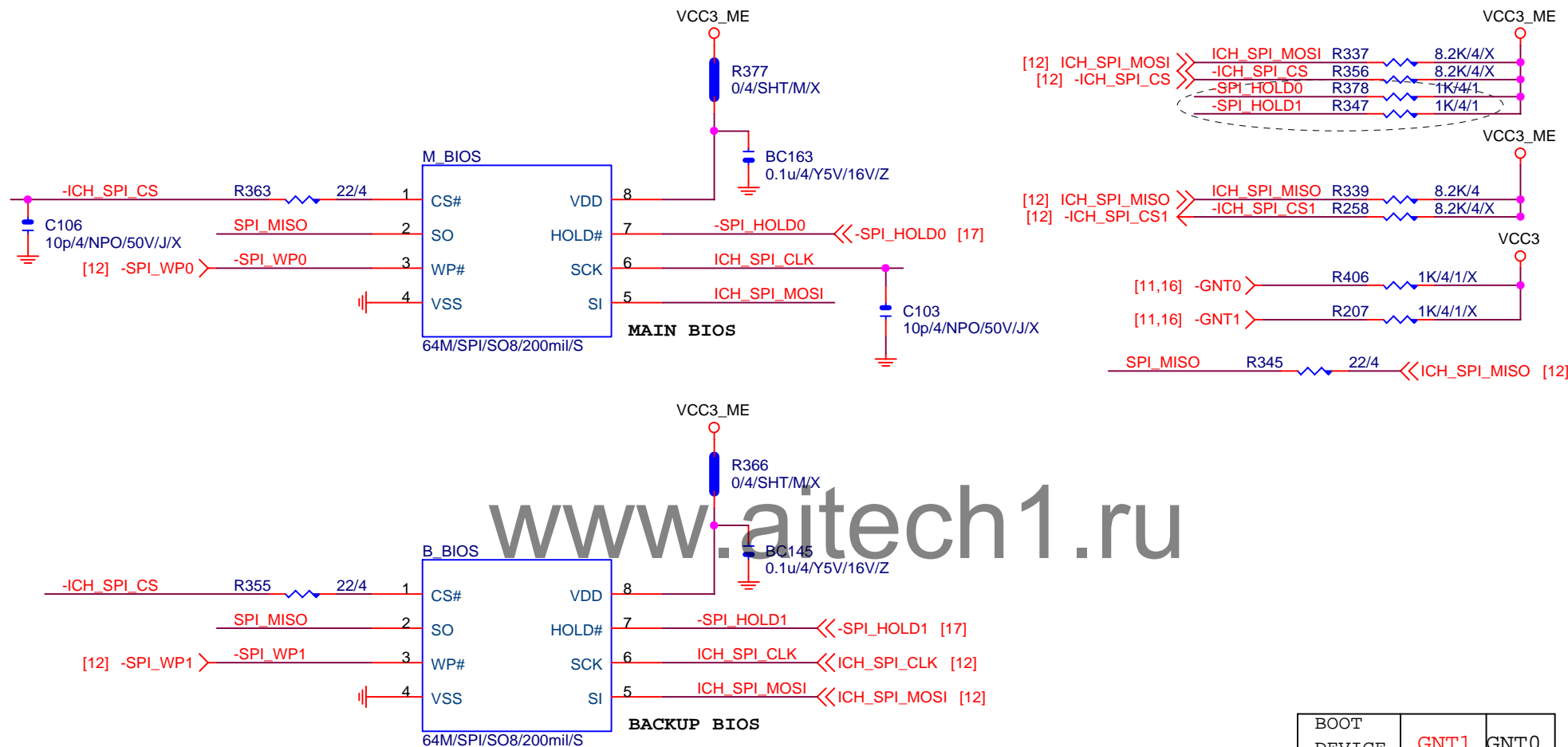
Document Number

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Rev 1.1

DUAL BIOS



B65使用64M BIOS

使用H67暫用32M

H61使用32M BIOS

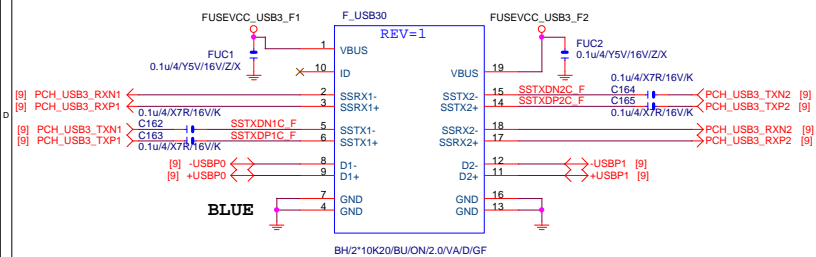
BOOT DEVICE	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1

1 means floating
0 means PD 1K

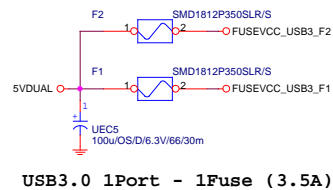
Gigabyte Technology

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DUAL BIOS		
Size A	Document Number	Rev
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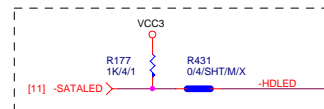
F_USB30



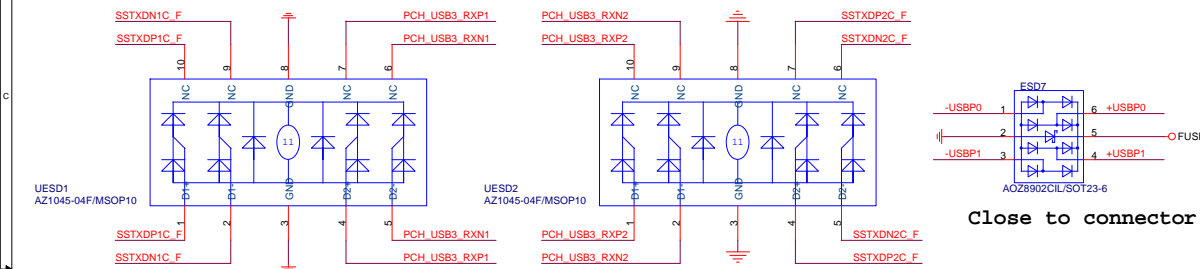
F_USB30 PWR



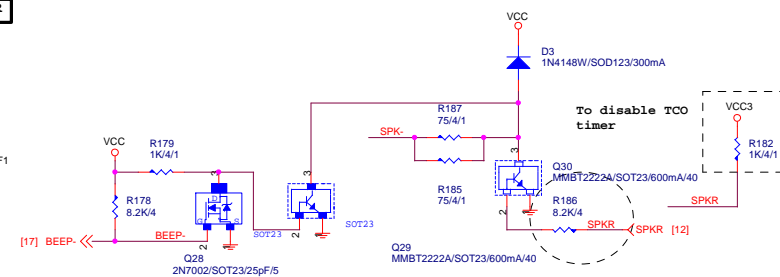
SATA LED



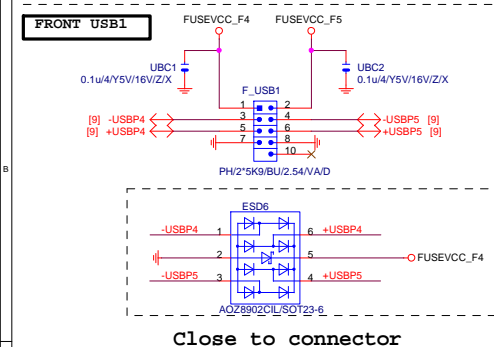
F_USB30 ESD PROTECT



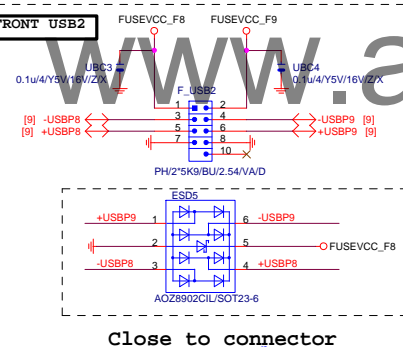
SPKR



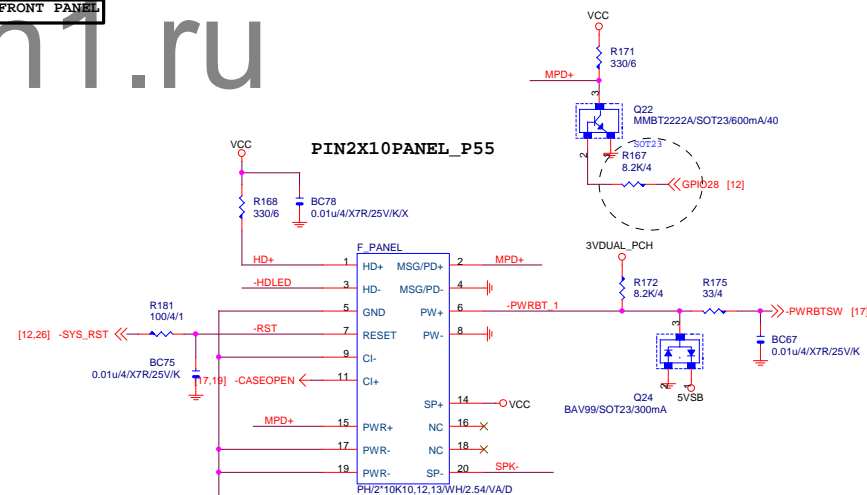
FRONT USB1



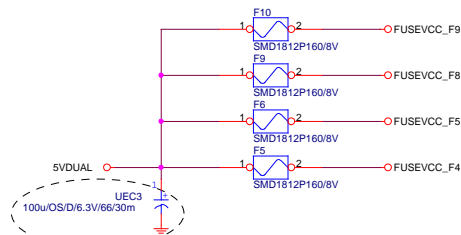
FRONT USB2



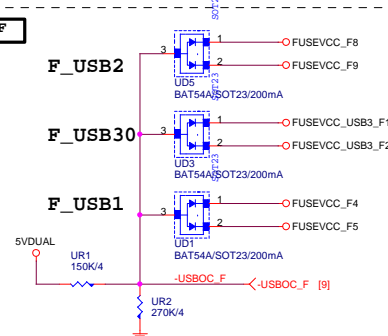
INTEL FRONT PANEL



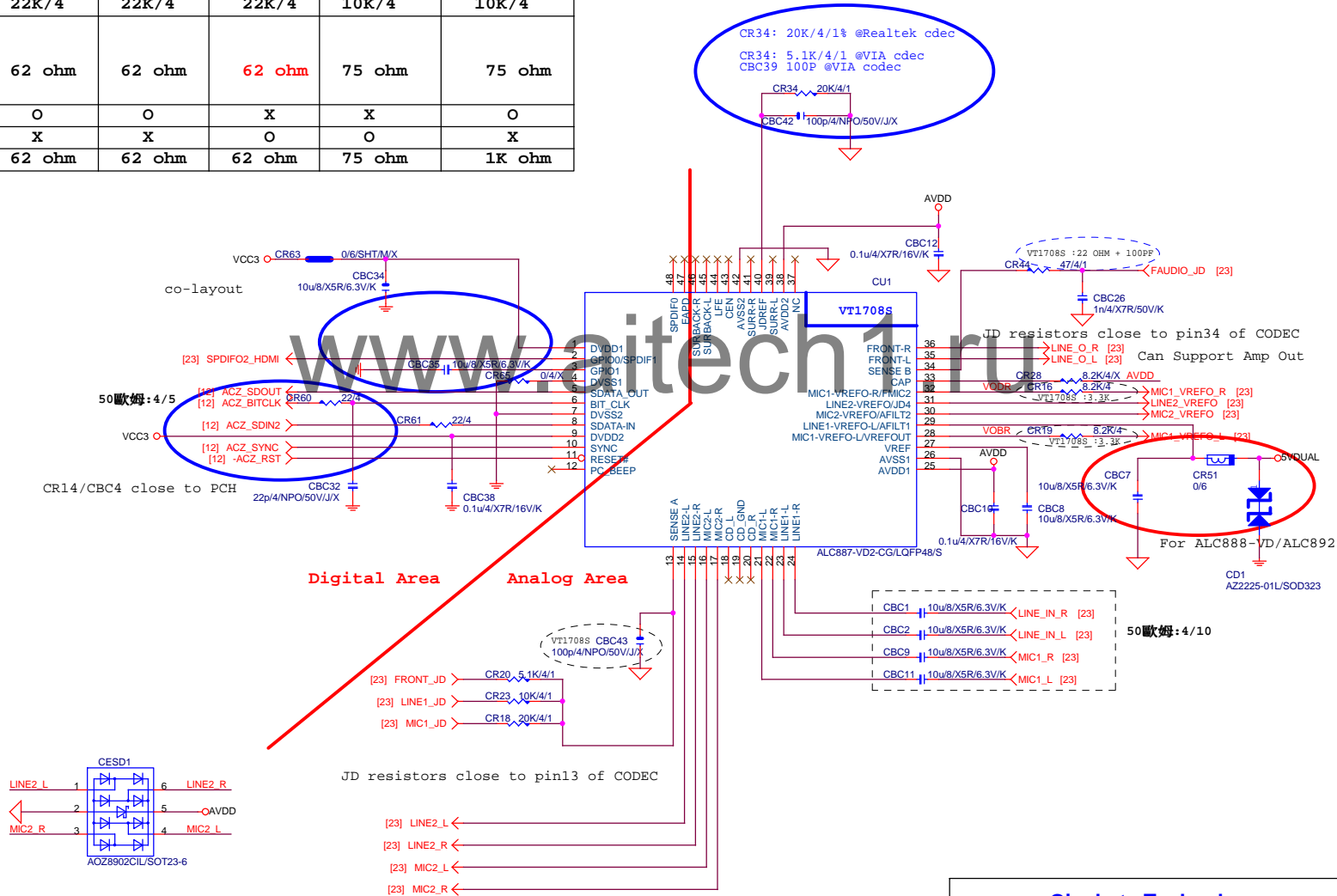
FUSEVCC_F

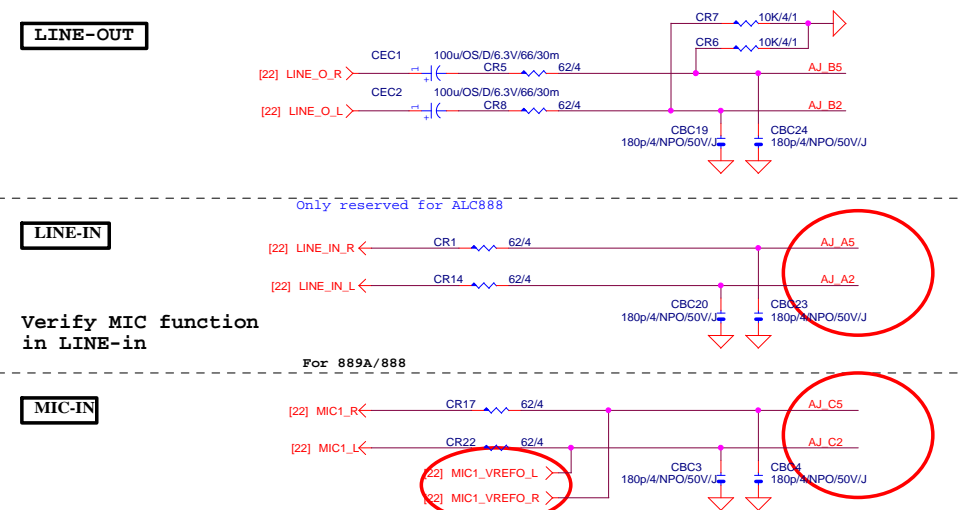
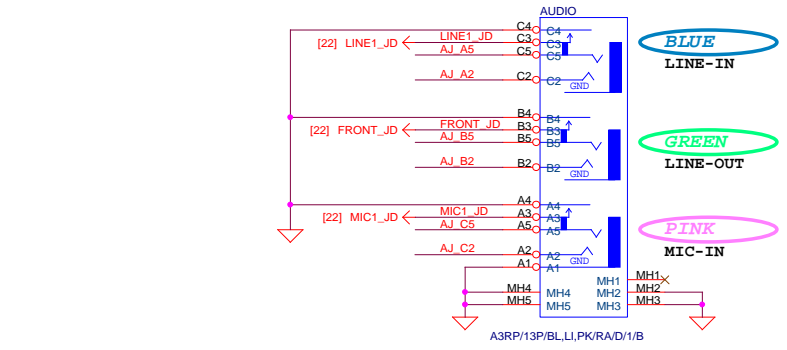
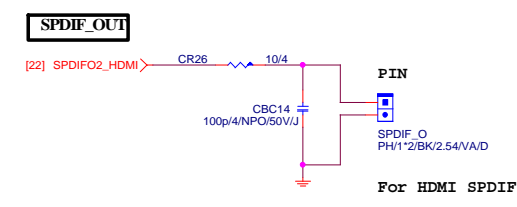
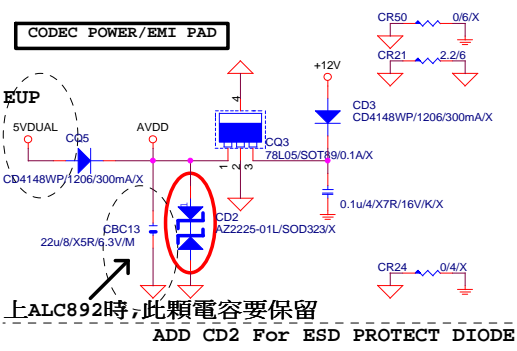


-USB0C_F

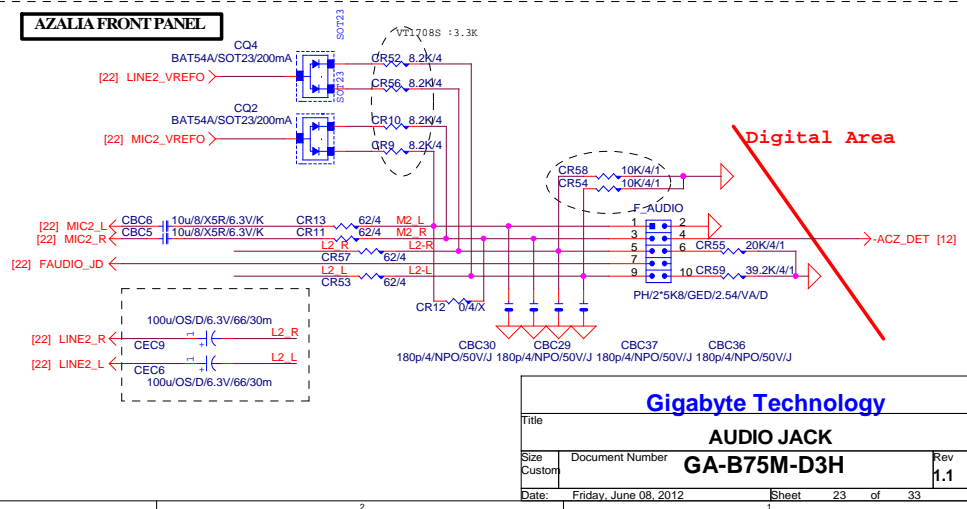


	ALC662	ALC887-VD2	ALC889	VT1708S	VT1708SCE
CR65	X	X	O	O	X
CR64	X	X	X	X	0.1u/4
CBC35	O	O	X	X	O
CR44/CBC6	47ohm+1nF	47ohm+1nF	47ohm+1nF	22ohm+100P	22ohm+100P
CR31	X	O	O	O	O
CR30	O	X	X	X	X
CBC1/CBC2	22uF/X5R	22uF/X5R	22uF/X5R	22uF/X5R	22uF/X5R
CR20	5.11K/4/1	5.11K/4/1	5.11K/4/1	5.1K/4/1	5.1K/4/1
CR34	20K/4/1	20K/4/1	20K/4/1	5.1K/4/1	20K/4/1
CBC39/CBC40	N/A	N/A	N/A	100P/4	100P/4
CR6/CR7/CR54/CR58	22K/4	22K/4	22K/4	10K/4	10K/4
CR5/CR8/CR11/CR4/ CR17/CR22/CR45/CR33/ CR47/CR40/CR26/CR37/ CR13/CR11/CR57/CR53	62 ohm	62 ohm	62 ohm	75 ohm	75 ohm
CR51/CD1/CBC7	O	O	X	X	O
CD2/CD3/CQ3/CQ5	X	X	O	O	X
CR1/CR14/CR17/CR22	62 ohm	62 ohm	62 ohm	75 ohm	1K ohm

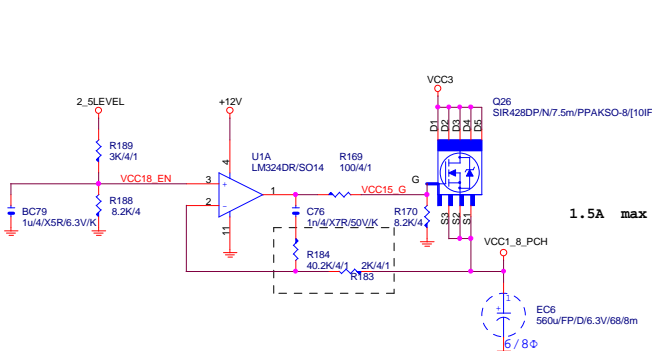




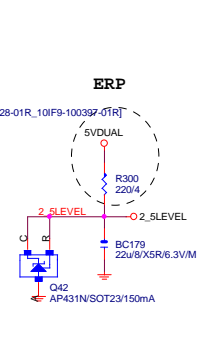
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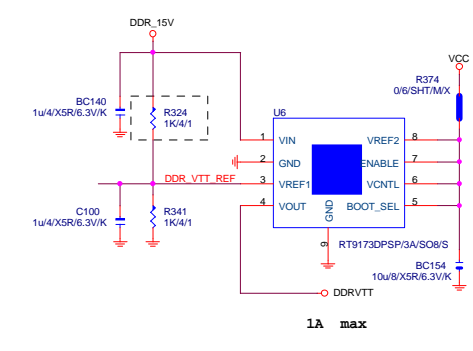
VCC1_8_PCH



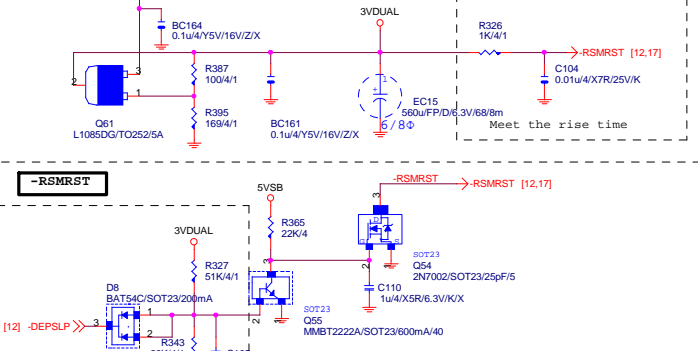
2_5LEVEL



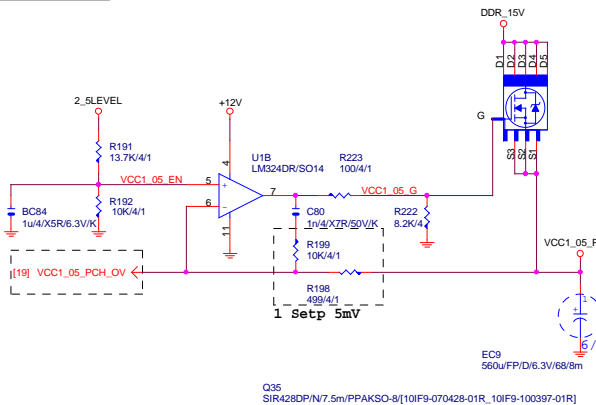
DDRVTT



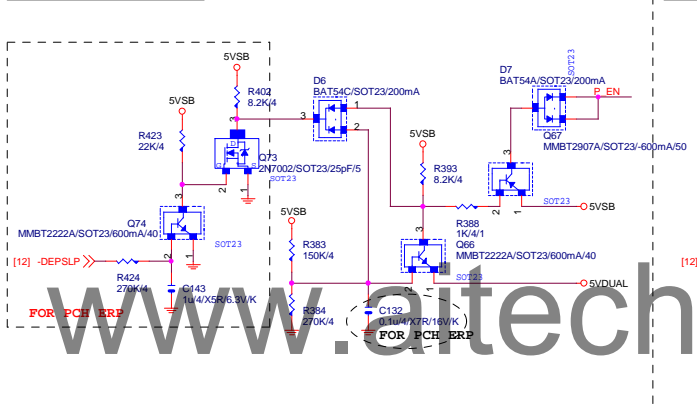
3VDUAL



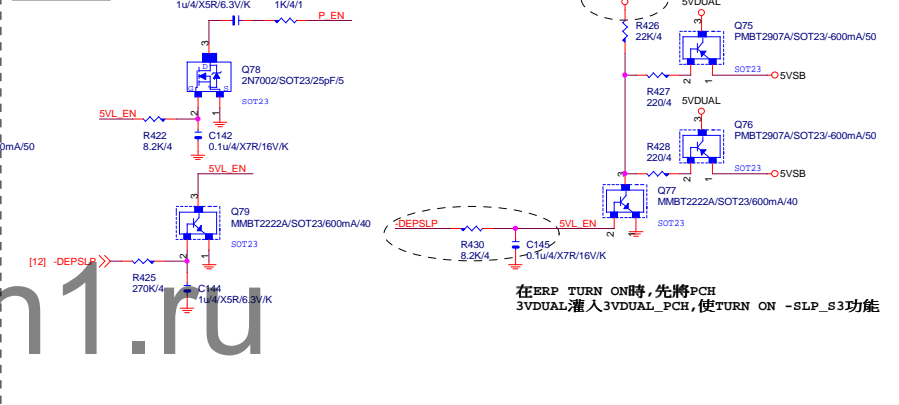
VCC1_05_PCH



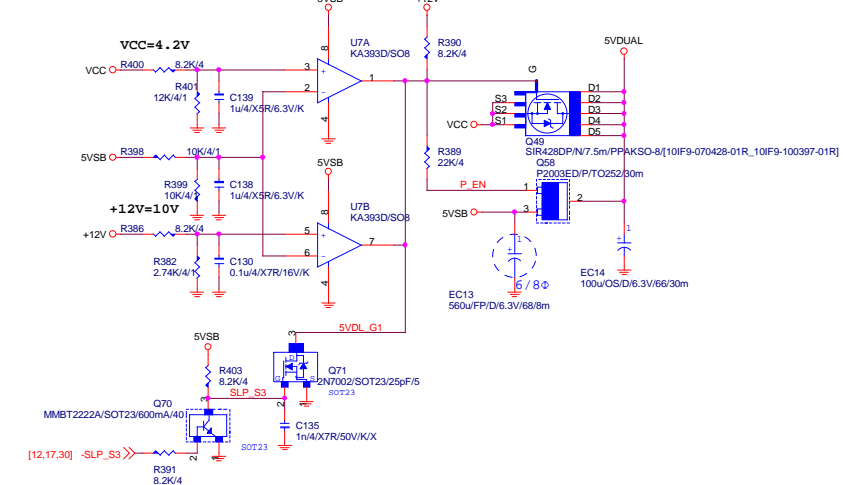
5VDUAL SHORT PROTECT



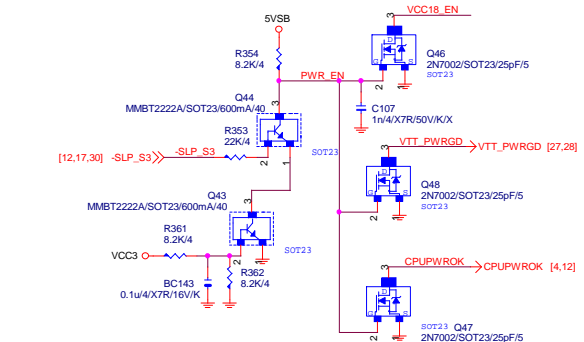
PCH ERP



5VDUAL

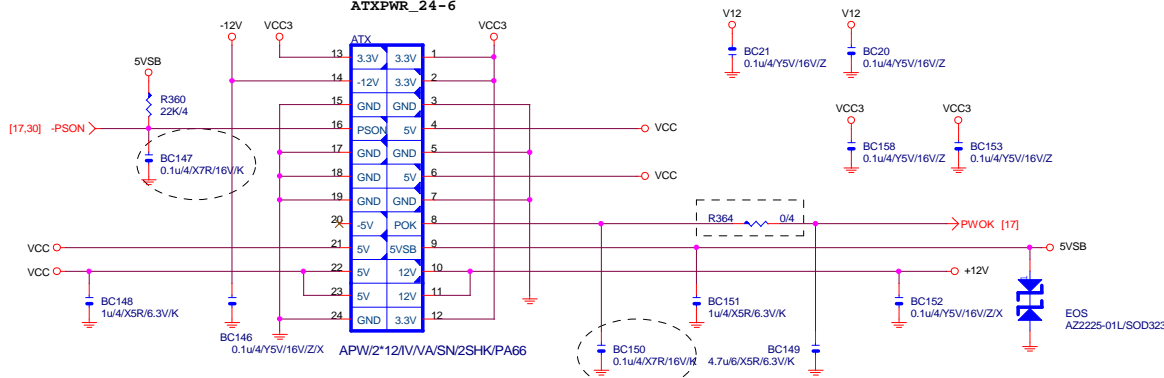


PWR SEQ



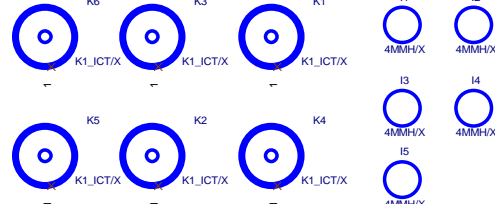
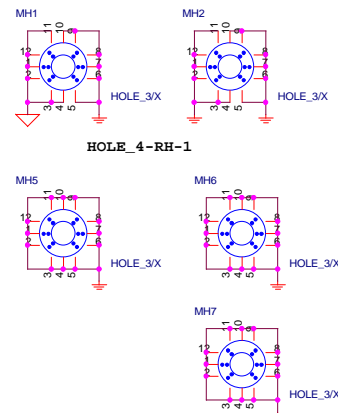
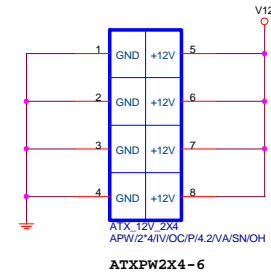
ATXX24 POWER CONNECTOR

ATXPWR_24-6



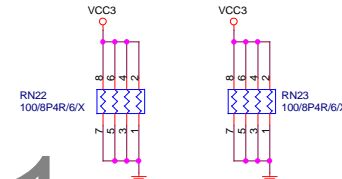
ATXX4 POWER CONNECTOR

ATXPW2X4-6

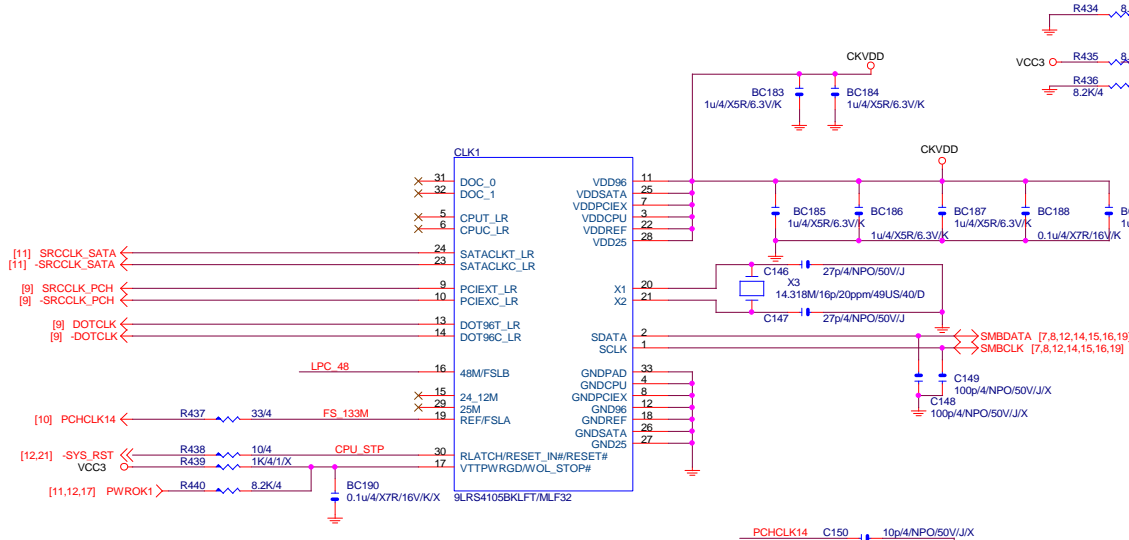


To prevent the 5VSB under loading when boot

FIX PWR MINMUN LOAD



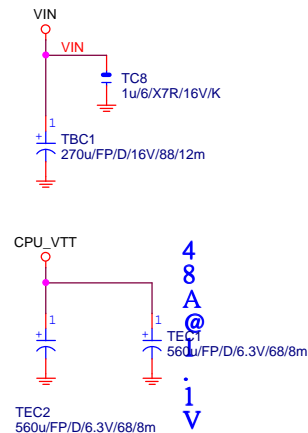
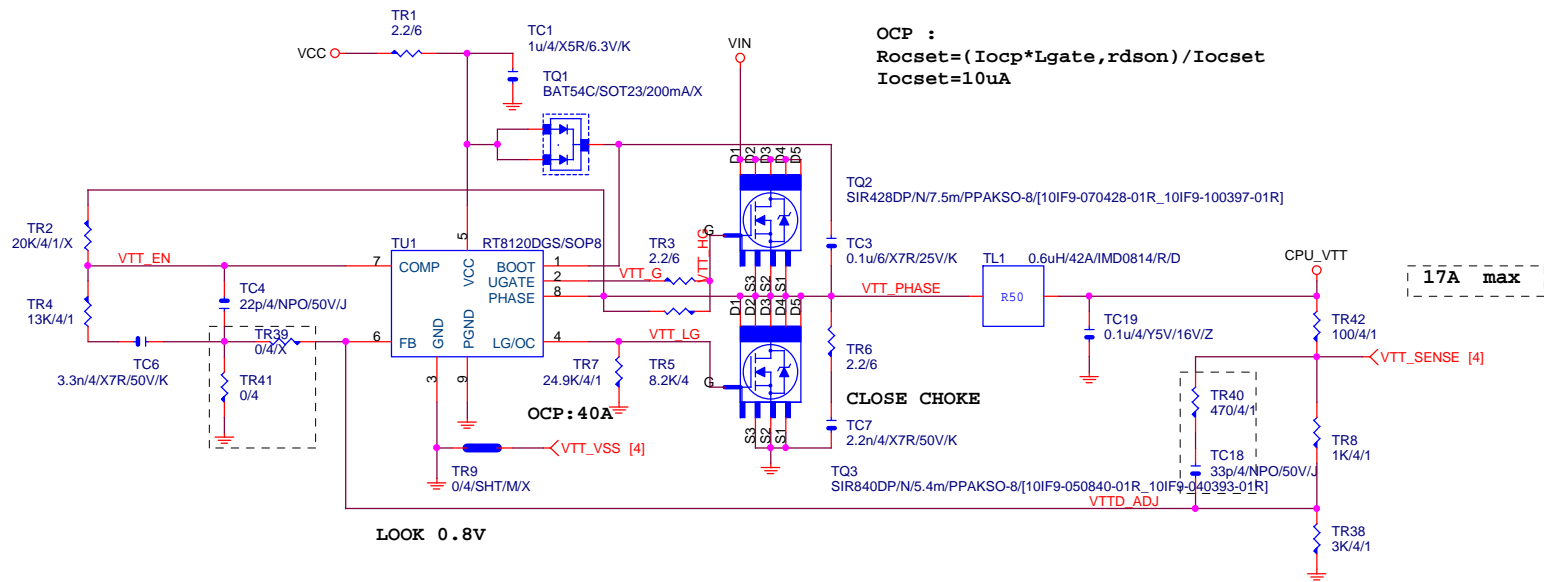
CLK GEN



CPU Frequency Selection

FS	CPU
0	100M <Default>
1	133M

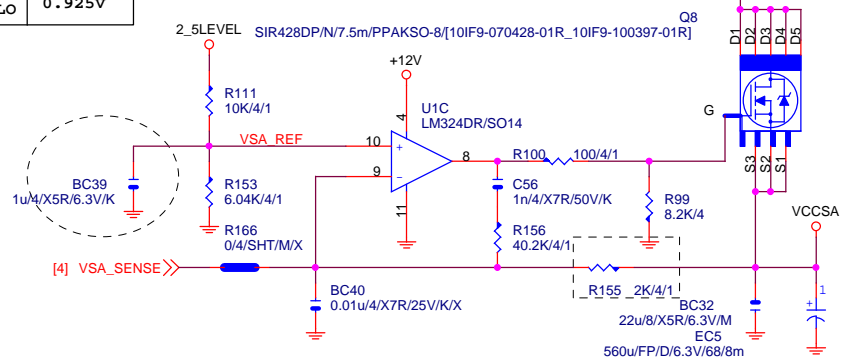
CPU_VTT



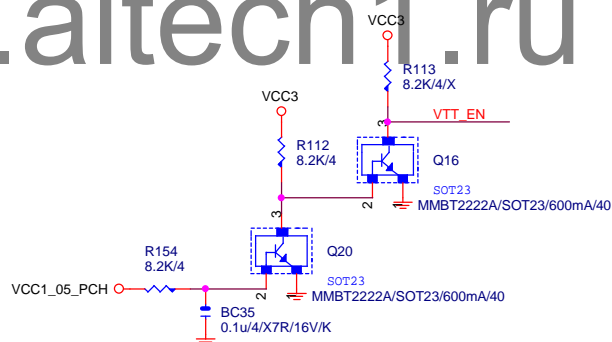
VCCSA

PDG 0.8

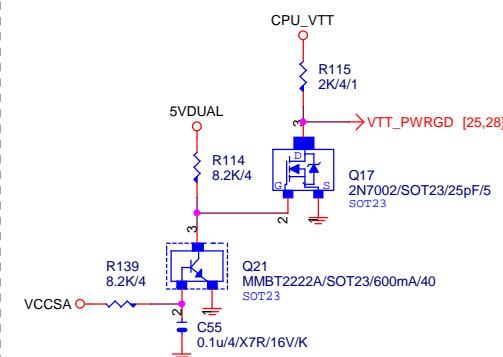
	VSA_SEL
HI	0.85V
LO	0.925V



CPU_VTT PWR SEQ



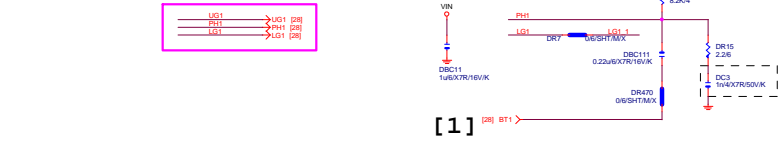
VTT_PWRGD



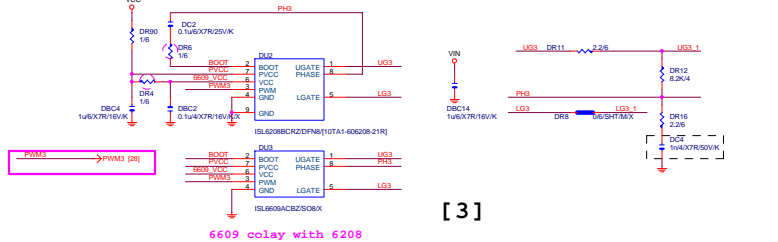
GIGABYTE™

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Size	Document Number	Rev
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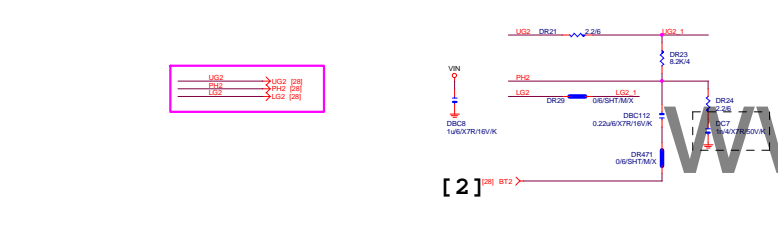
PHASE 1



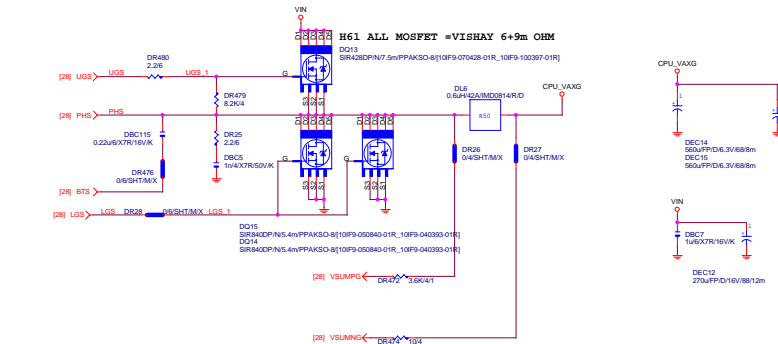
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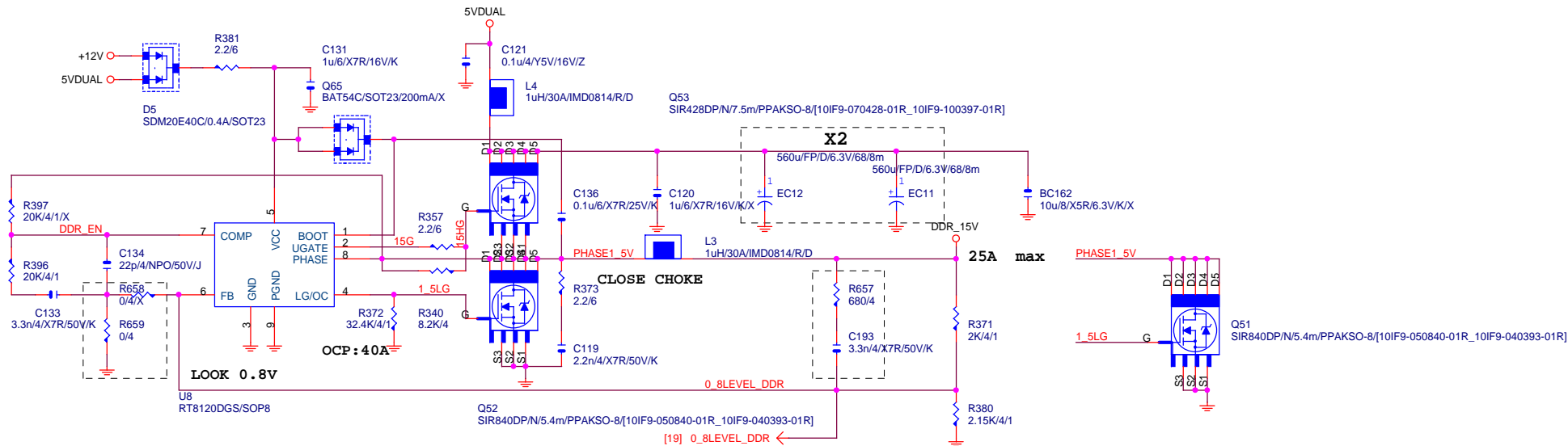
PHASE 2



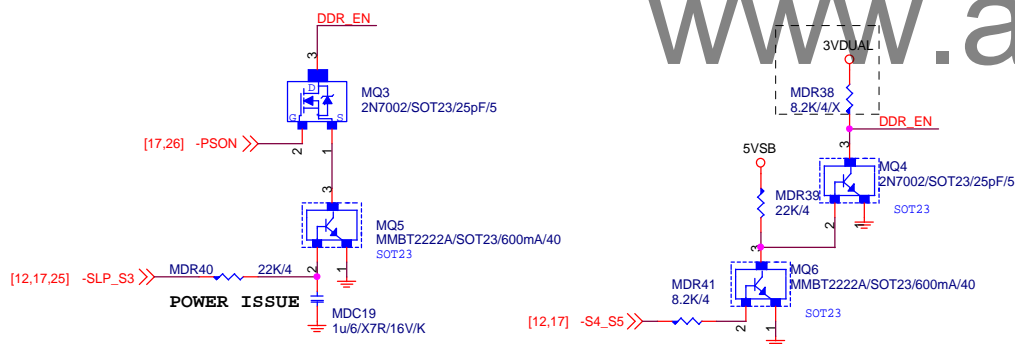
VAXG



DDR1.5V



PWR_SEQ



VIN=5V, VOUT=1.5V, IOUT=25A, PHASE=1
IRMS=11.45A
560u/FP/D/6.3V/68/8m RIPPLe CURRENT=4.7A
Coefficient=1.7(85°C), 1(105°C)

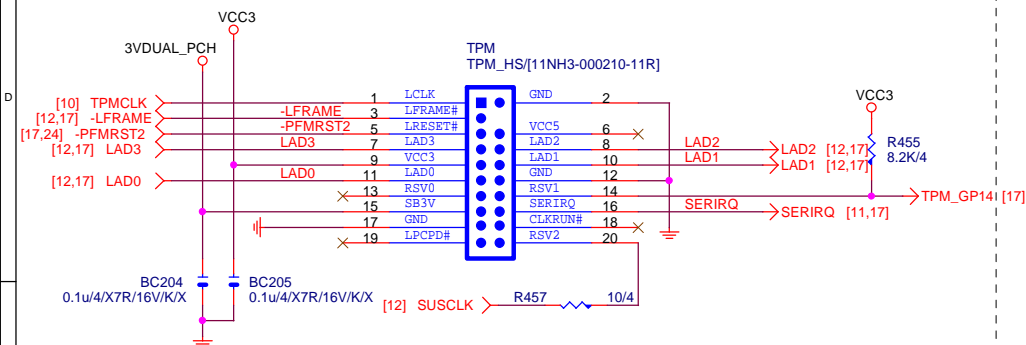
VIN Ripple current=4.7X1.7=7.99A(85°C)
-->故固態電容須2X7.99=15.98>11.45A

OCp : Ipeak=(2xIocsetxRocset)/Rdson
typ Iocset=20uA , Rocset=4.7k
OCp : 53.71A=(2x20uax4.7k)/(7m//7m)

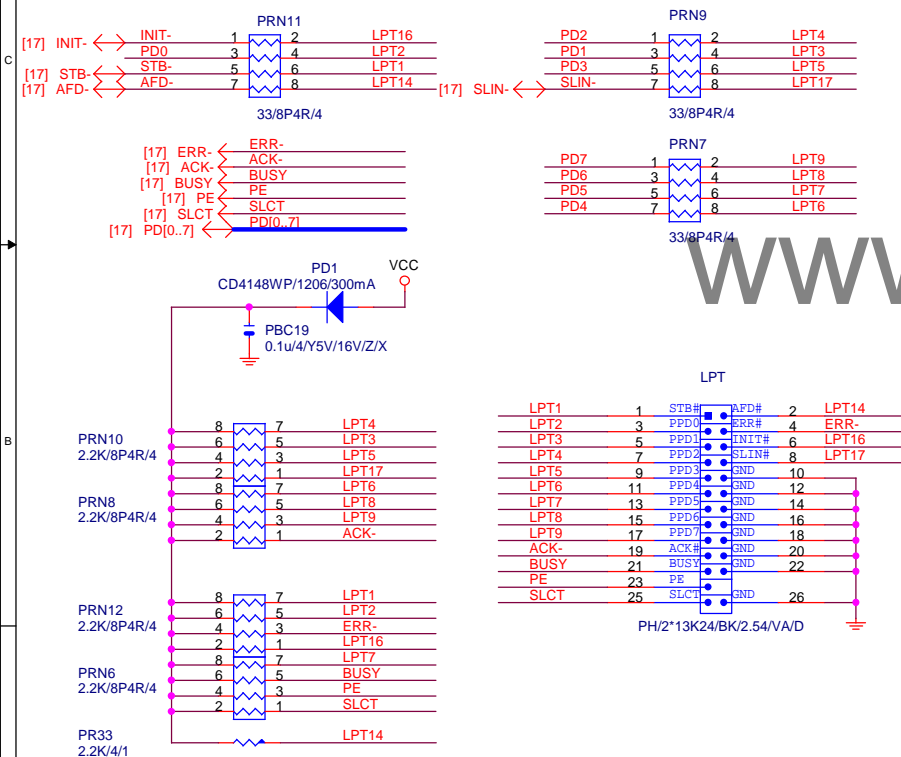
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Size Custom	Document Number	Rev
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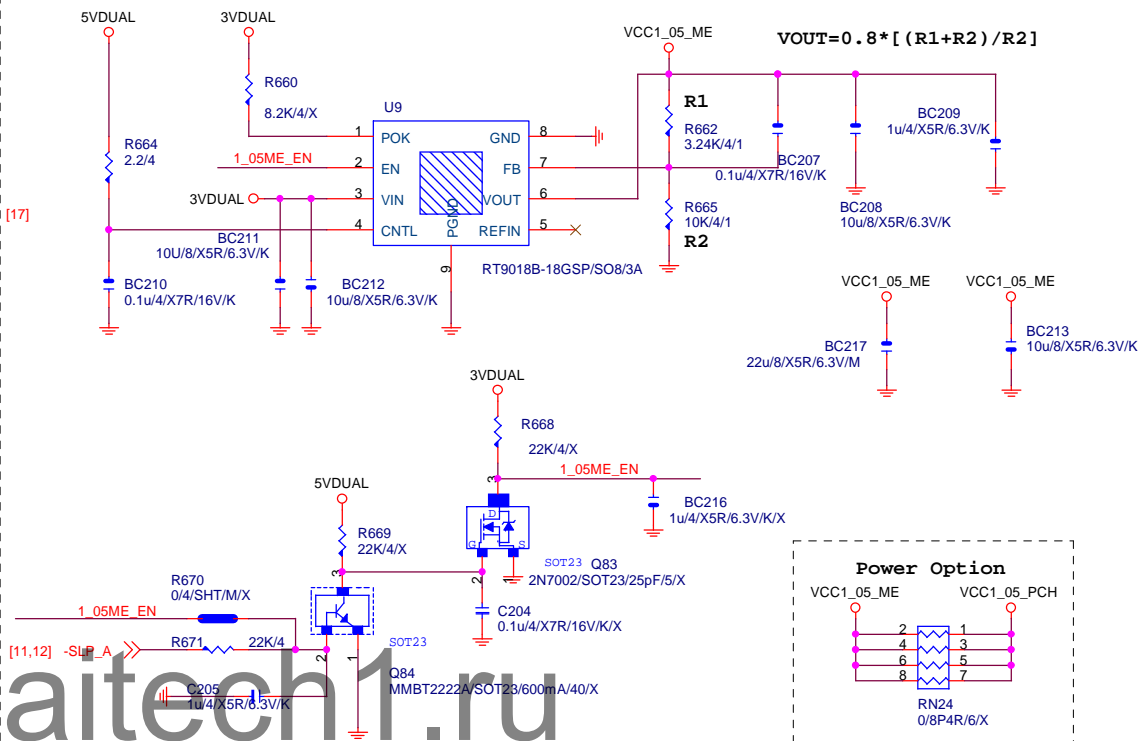
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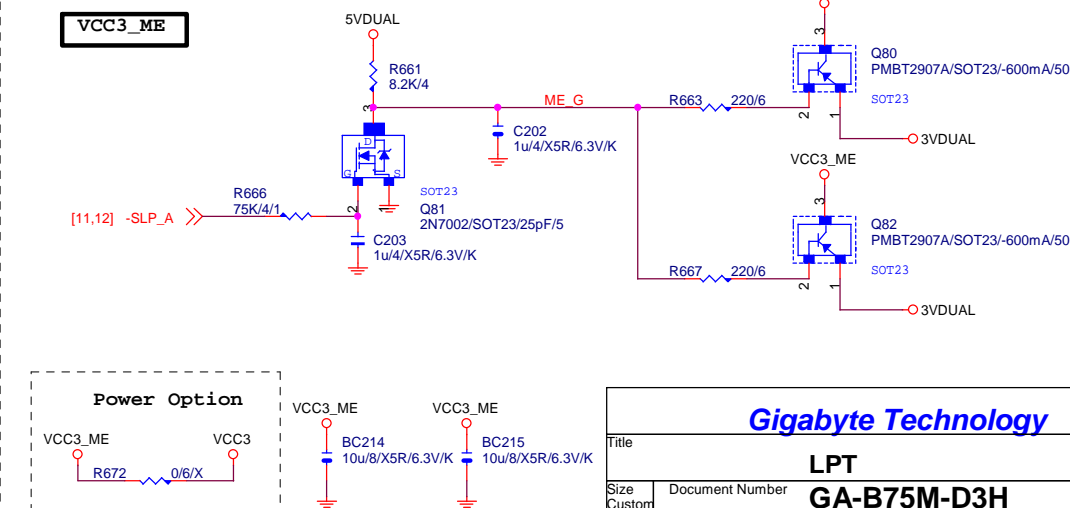
LPT PORT



VCC1_05_ME



VCC3_ME



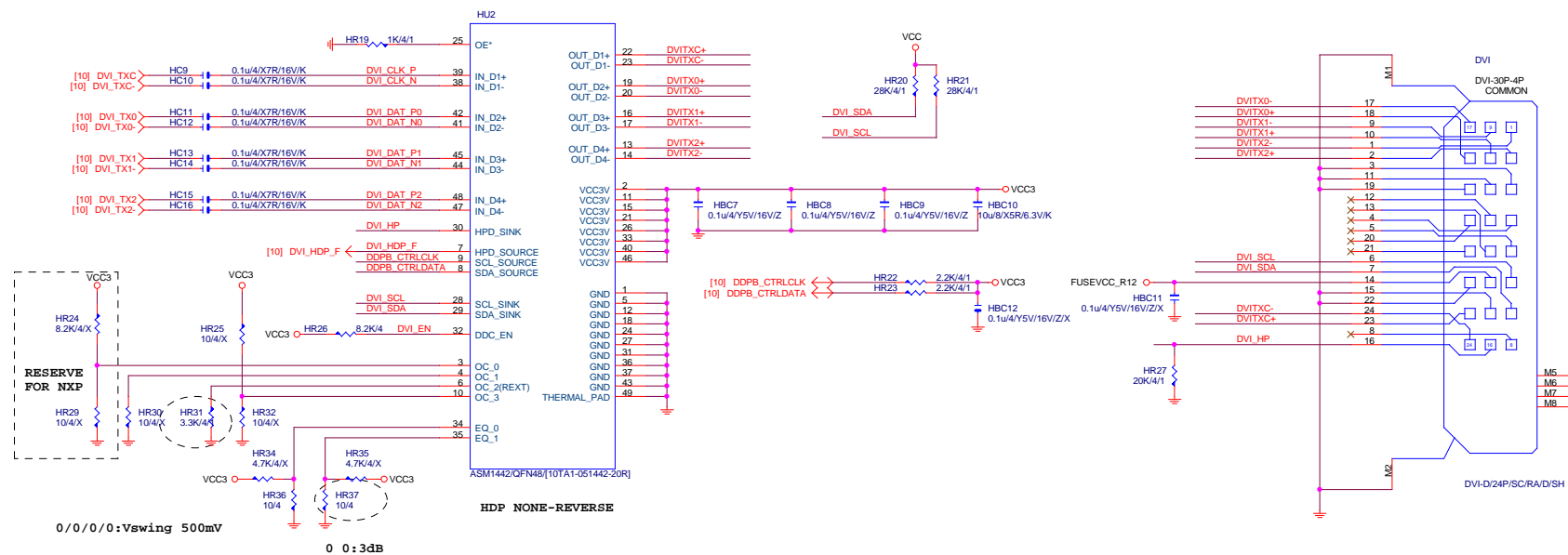
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LPT

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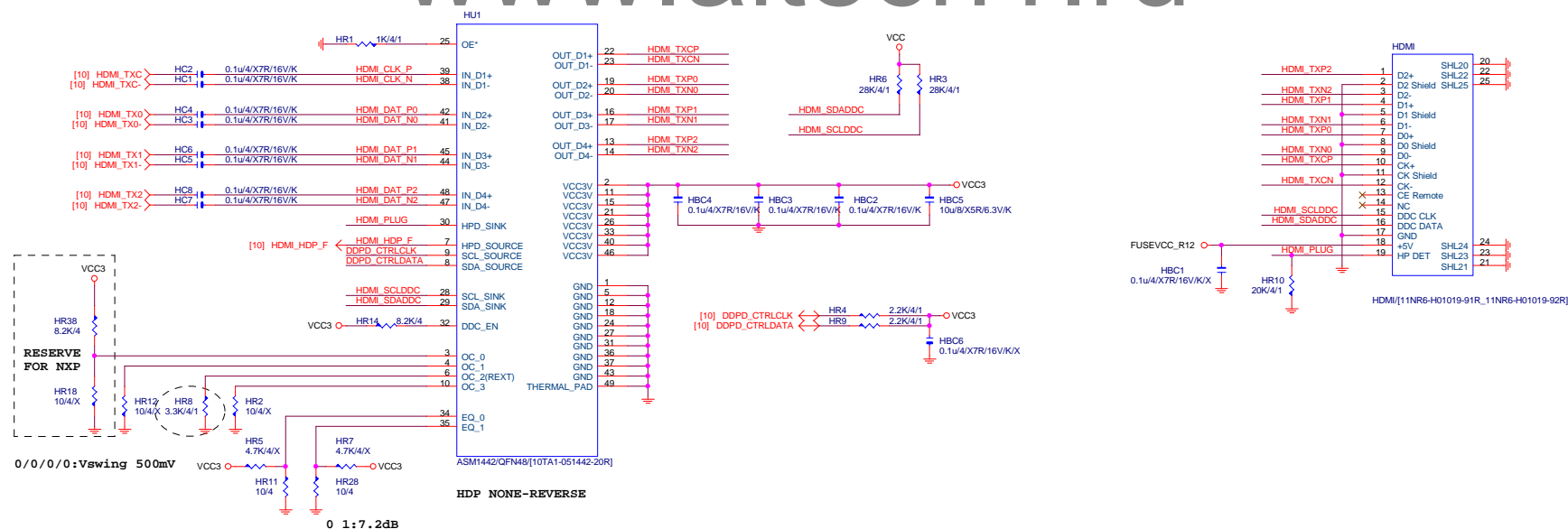
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DVI LEVEL SHIFT



HDMI LEVEL SHIFT

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