

SHEET TITLE

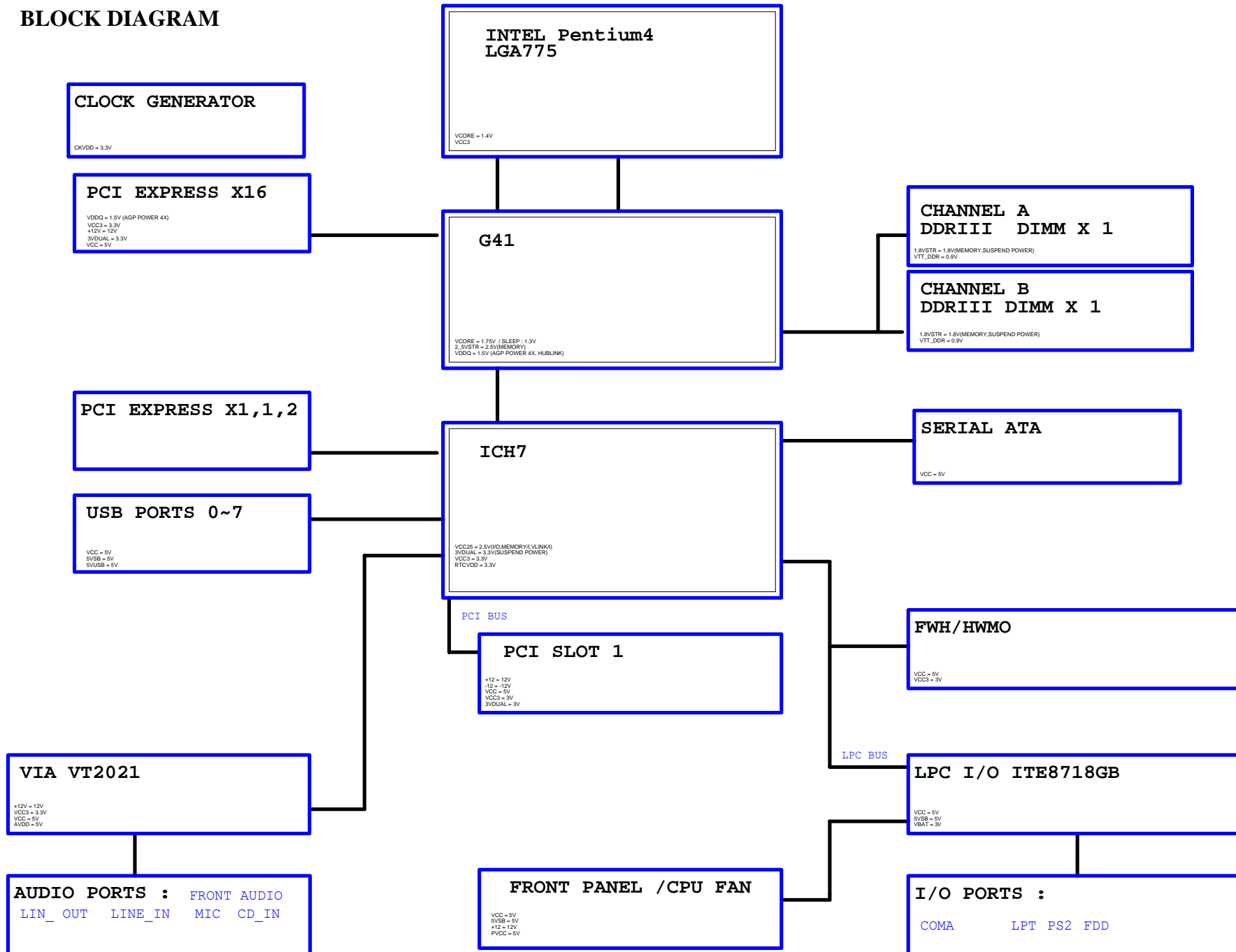
SHEET TITLE

01	COVER SHEET
02	BLOCK DIAGRAM
03	BOM & PCB MODIFY HISTORY
04	P4_LGA775_A
05	P4_LGA775_B,D
06	P4_LGA775_C
07	P4_LGA775_E,F,G,H
08	G41_HOST
09	G41_DDRII
10	G41_PCI E, DMI
11	G41_VGA
12	G41_GND
13	G41_PWR
14	PCI EXPRESS*16 SLOT
15	DDR3 CHANNEL A
16	DDR3 CHANNEL B
17	DDR3 TERMINATION
18	ICH7 PCI, USB, DMI, LAN
19	ICH7 IDE, GPIO, SATA, CTRL
20	ICH7 VCC, GND
21	CK505 CLOCK.
22	PCI SLOT 1,PCIE*1,2
23	IDE/FLOPPY/F_USB/R_USB
24	ITE 8718 GB
25	COM_LPT
26	CI,HWM,KB/MS,DUALBIOS
27	VIA VT2021

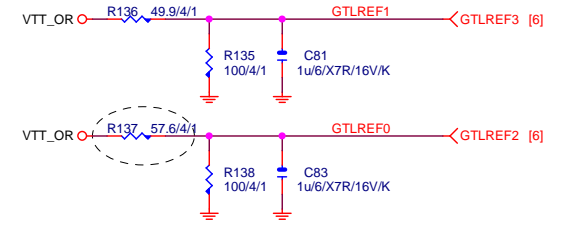
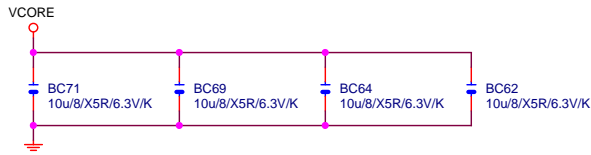
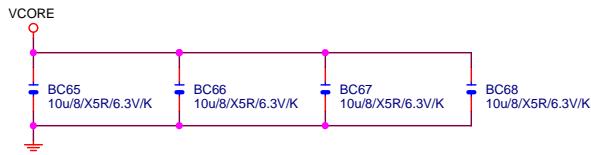
28	REAR AUDIO JACK
29	DISCRETE POWER
30	VCORE PWM_ISL6312
31	ATX, OTHERS POWER
32	FRONT PANEL
33	ARTHEROS AR8151

<https://t.me/biosarchive>
https://t.me/schematics_laptop

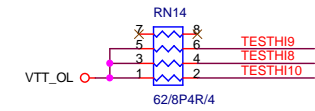
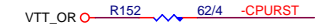
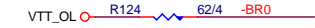
BLOCK DIAGRAM



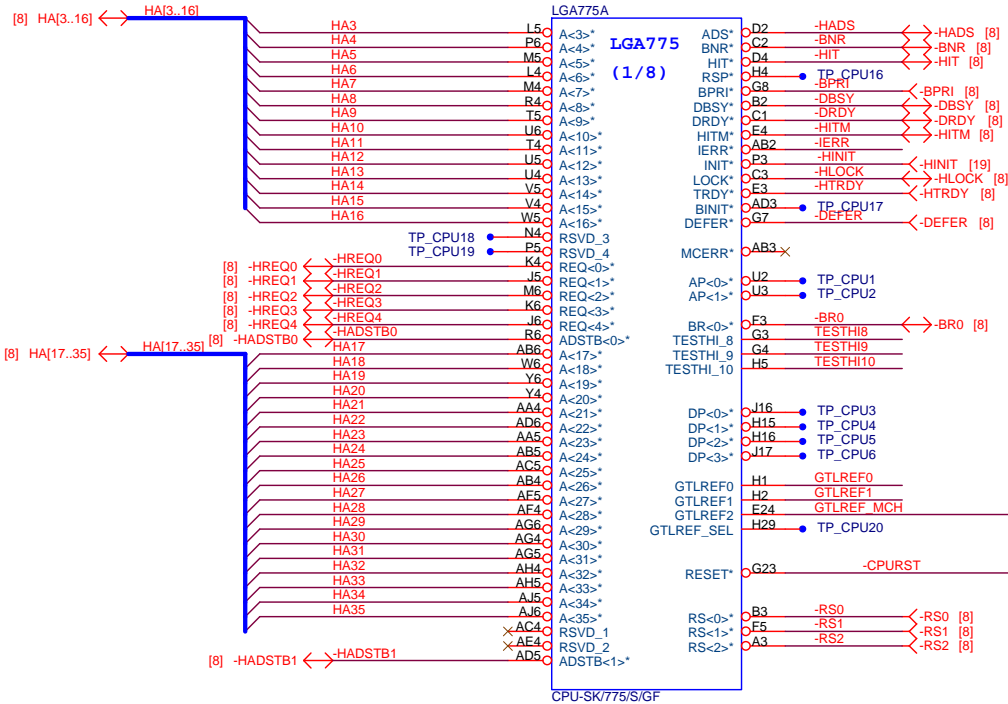
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中間値 0.9V

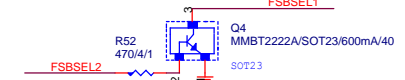
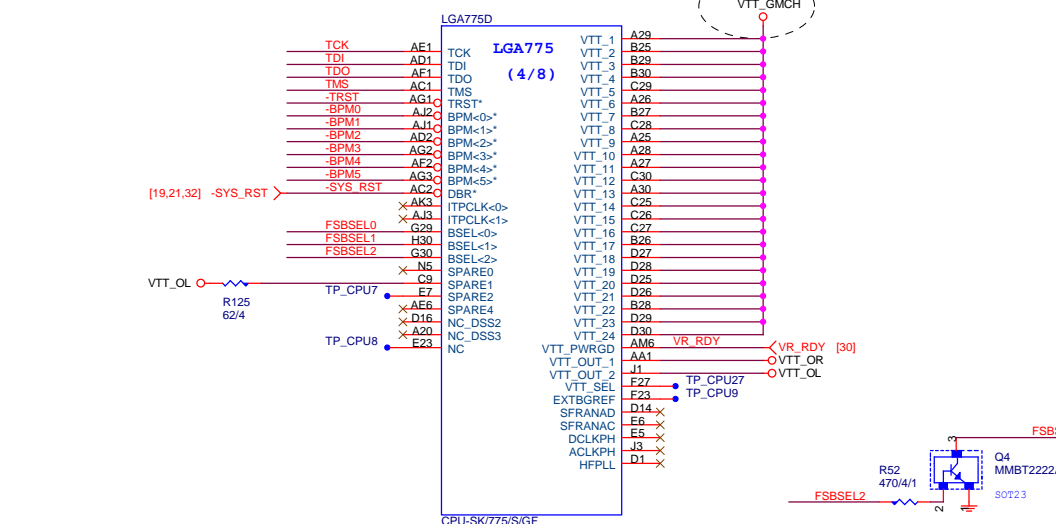
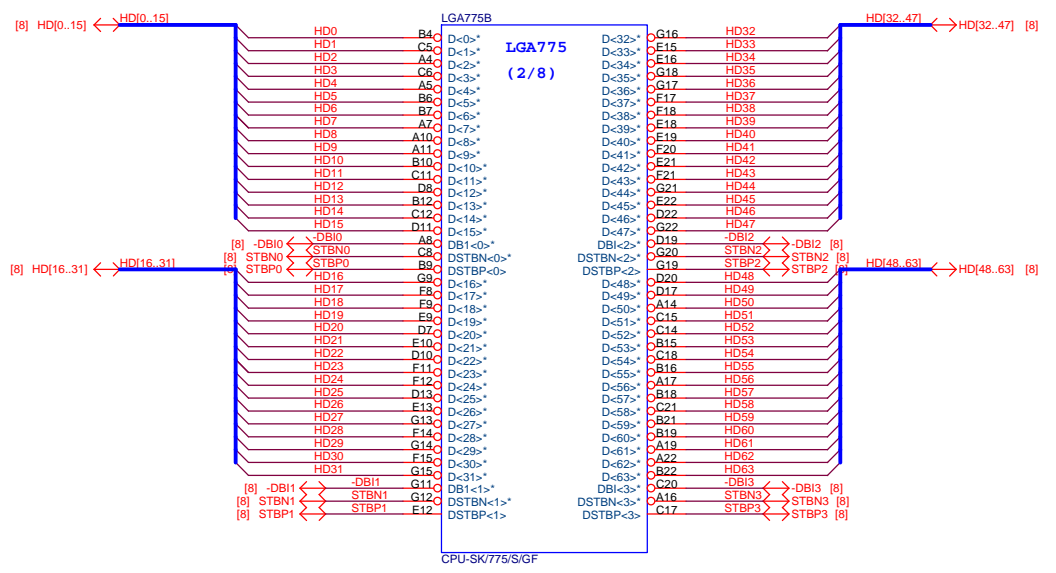


LGA775-39-2



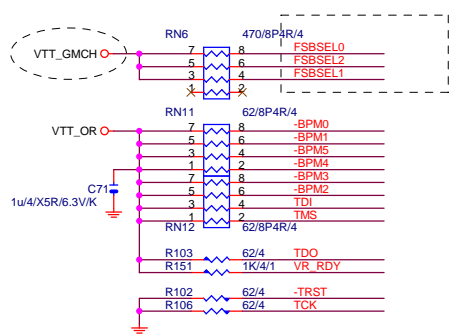
Gigabyte Technology

Title			P4_LGA775-A		
Size	Document Number	GA-G41MT-S2P			Rev
B					1.3
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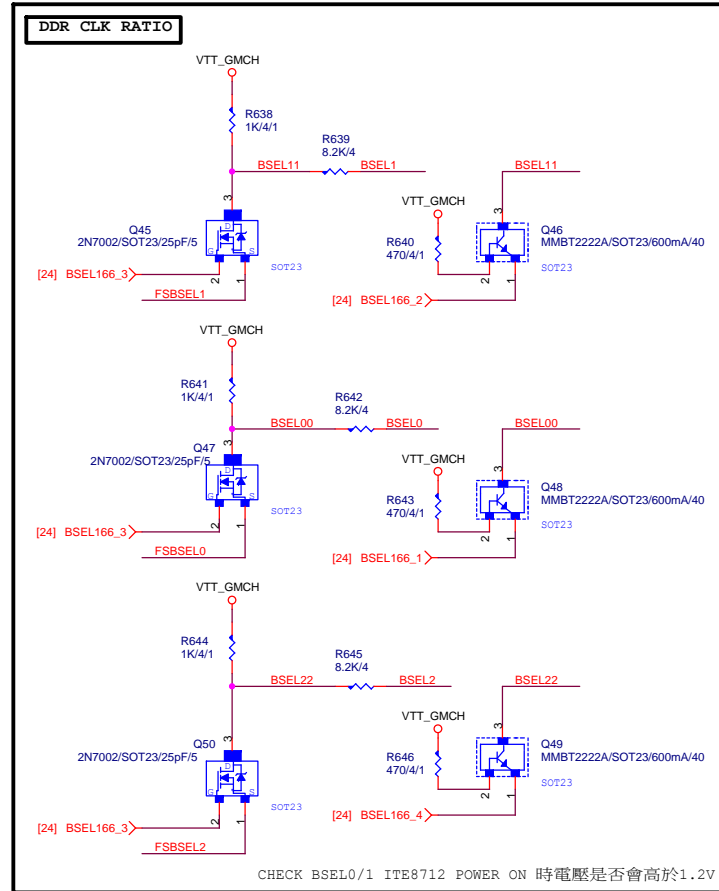


CPU

NA	FSB	FSB	FSB	FSB
FSBSEL3	FSBSEL1	FSBSEL0	FSBSEL0	FSBSEL0
1	0	1	1	100MHz
0	0	1	1	133MHz
0	1	1	1	166MHz
0	1	0	0	200MHz
0	0	0	0	266MHz



TO CLK GEN [21] FSBSEL0 FSBSEL0 R54 8.2K/4X BSEL0 BSEL0 [11]
 [21] FSBSEL1 FSBSEL1 R51 8.2K/4X BSEL1 BSEL1 [11]
 [21] FSBSEL2 FSBSEL2 R53 8.2K/4X BSEL2 BSEL2 [11] TO NB



CHECK BSEL0/1 ITE8712 POWER ON 時電壓是否會高於1.2V

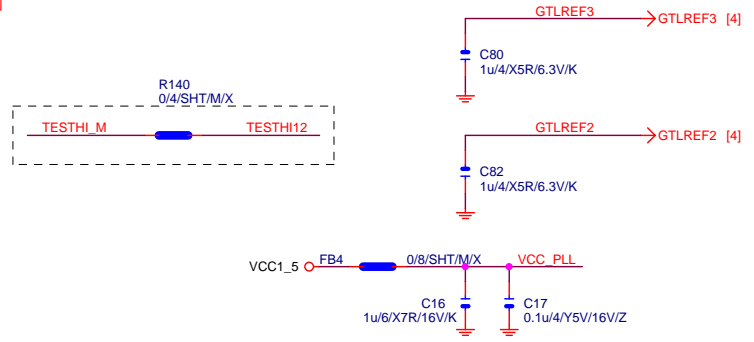
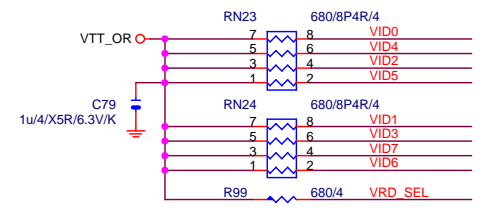
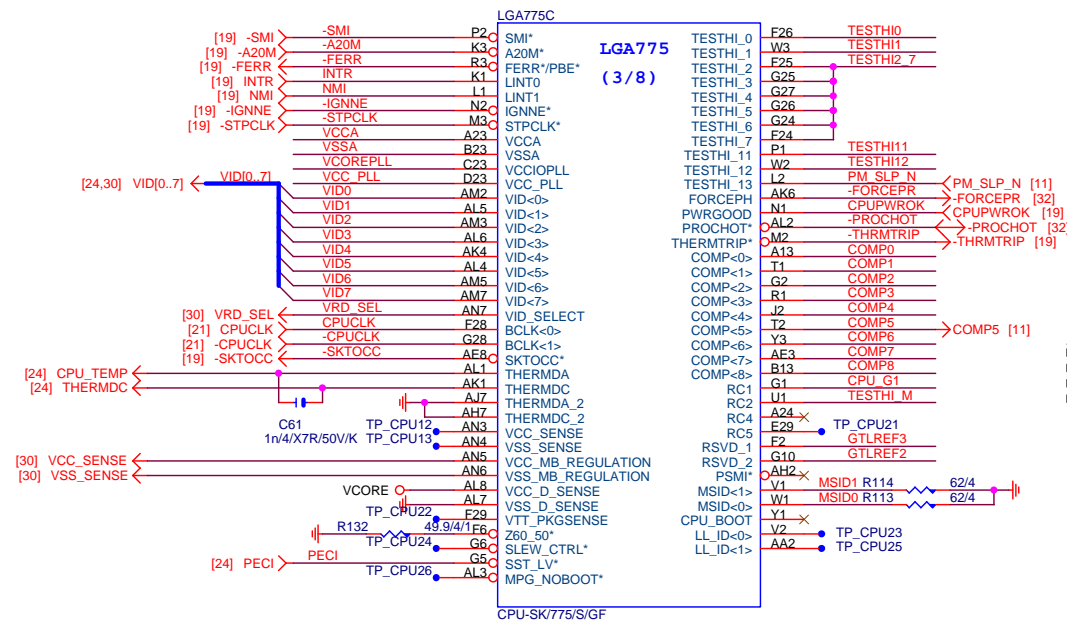
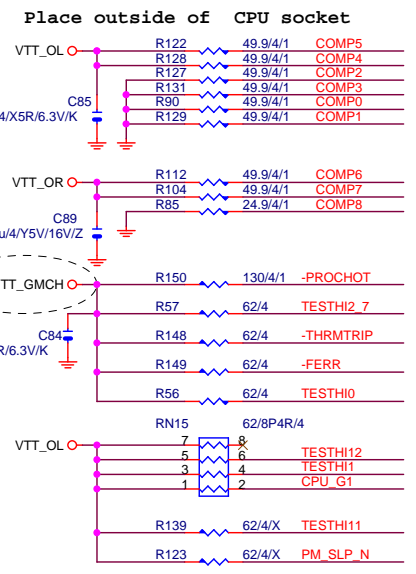
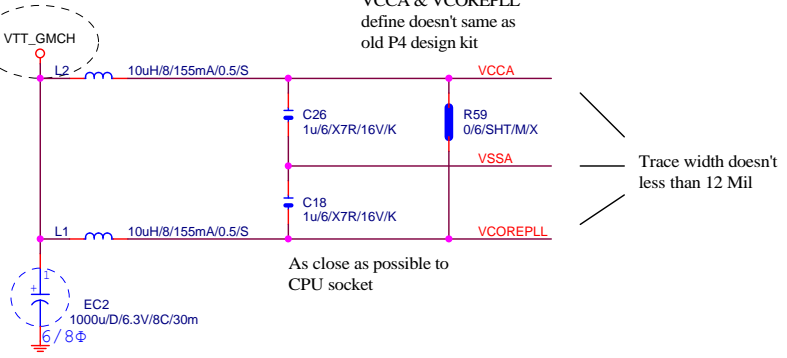
Gigabyte Technology

Title: P4_LGA775-B,D

Size: Custom Document Number: GA-G41MT-S2P Rev: 1.31

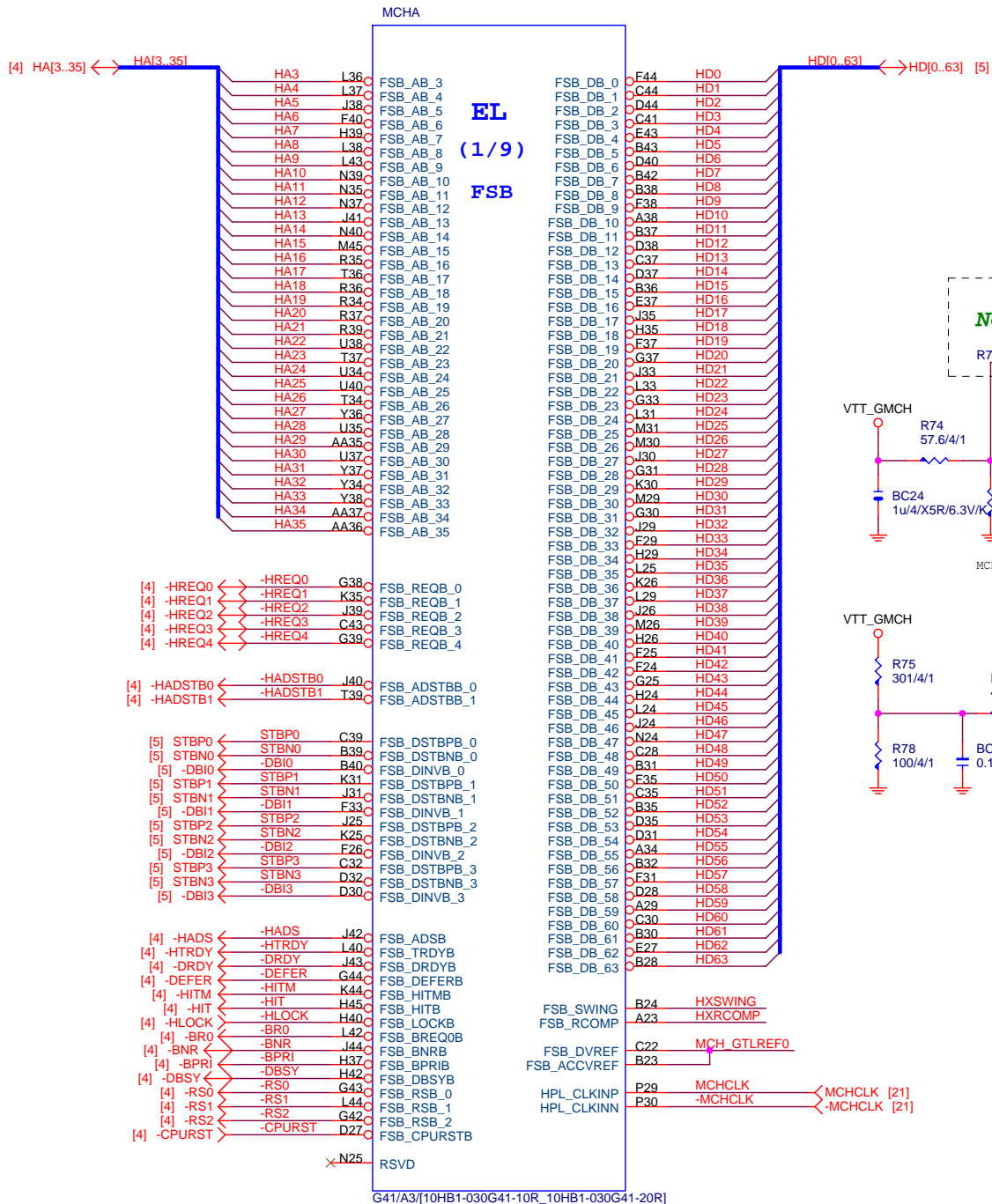
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Note:
VCCA & VCOREPLL
define doesn't same as
old P4 design kit



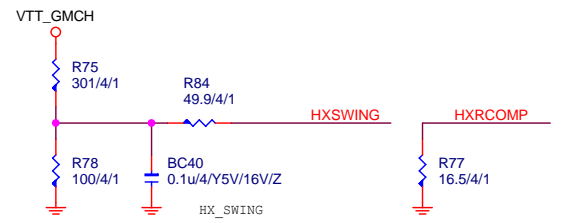
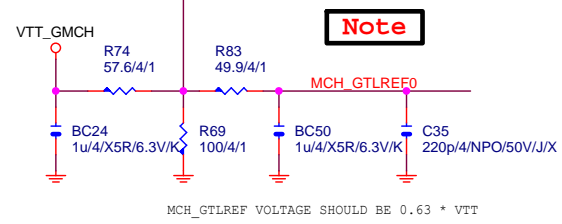
Gigabyte Technology		
Title P4_LGA775-C		
Size B	Document Number GA-G41MT-S2P	Rev 1.3
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PECCI: Platform Environment Control Interface

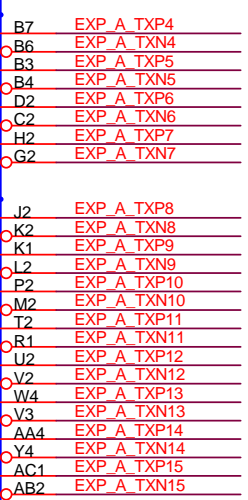
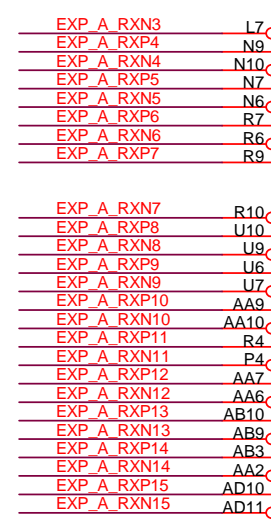
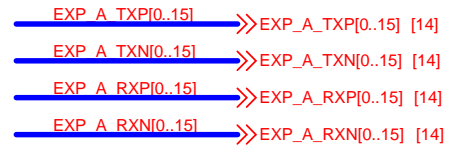
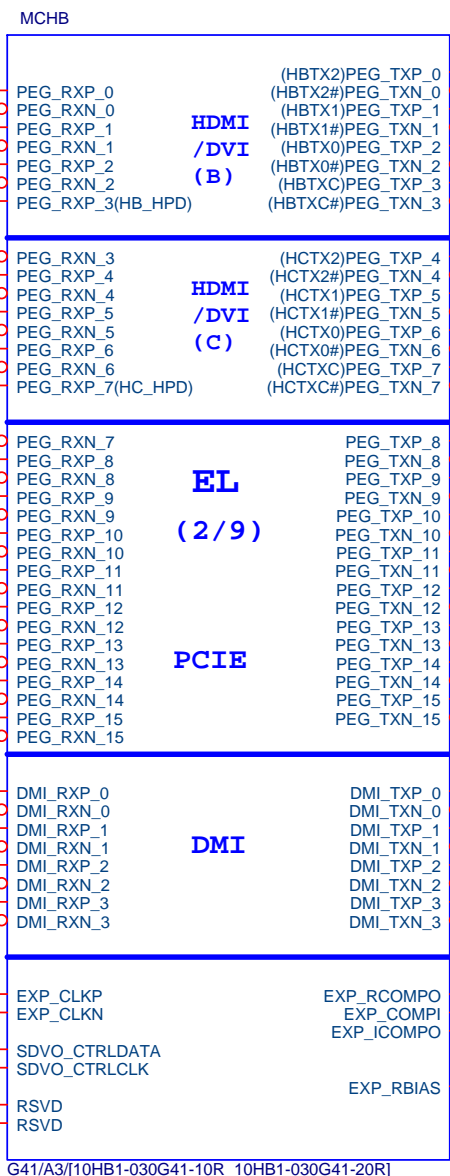


Not used for CoreTM2 Duo and Wolfdale

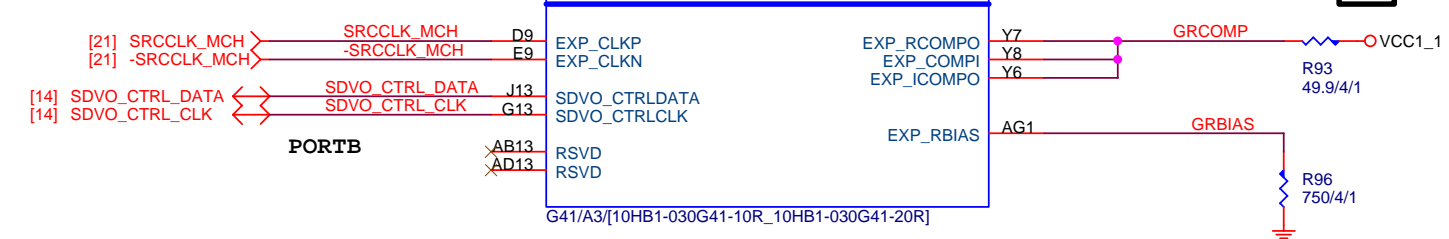
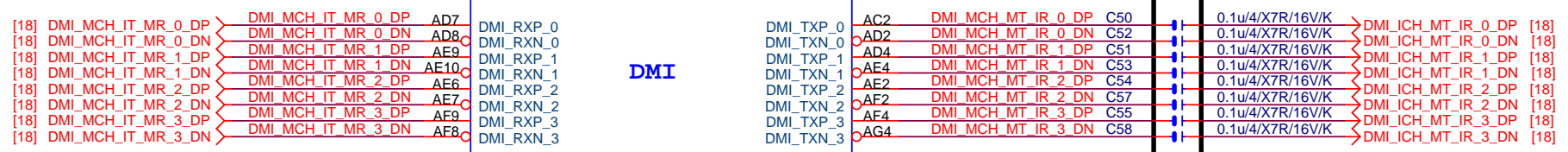
R70 0/4/SHT/M/X GTLREF_MCH → GTLREF_MCH [4]



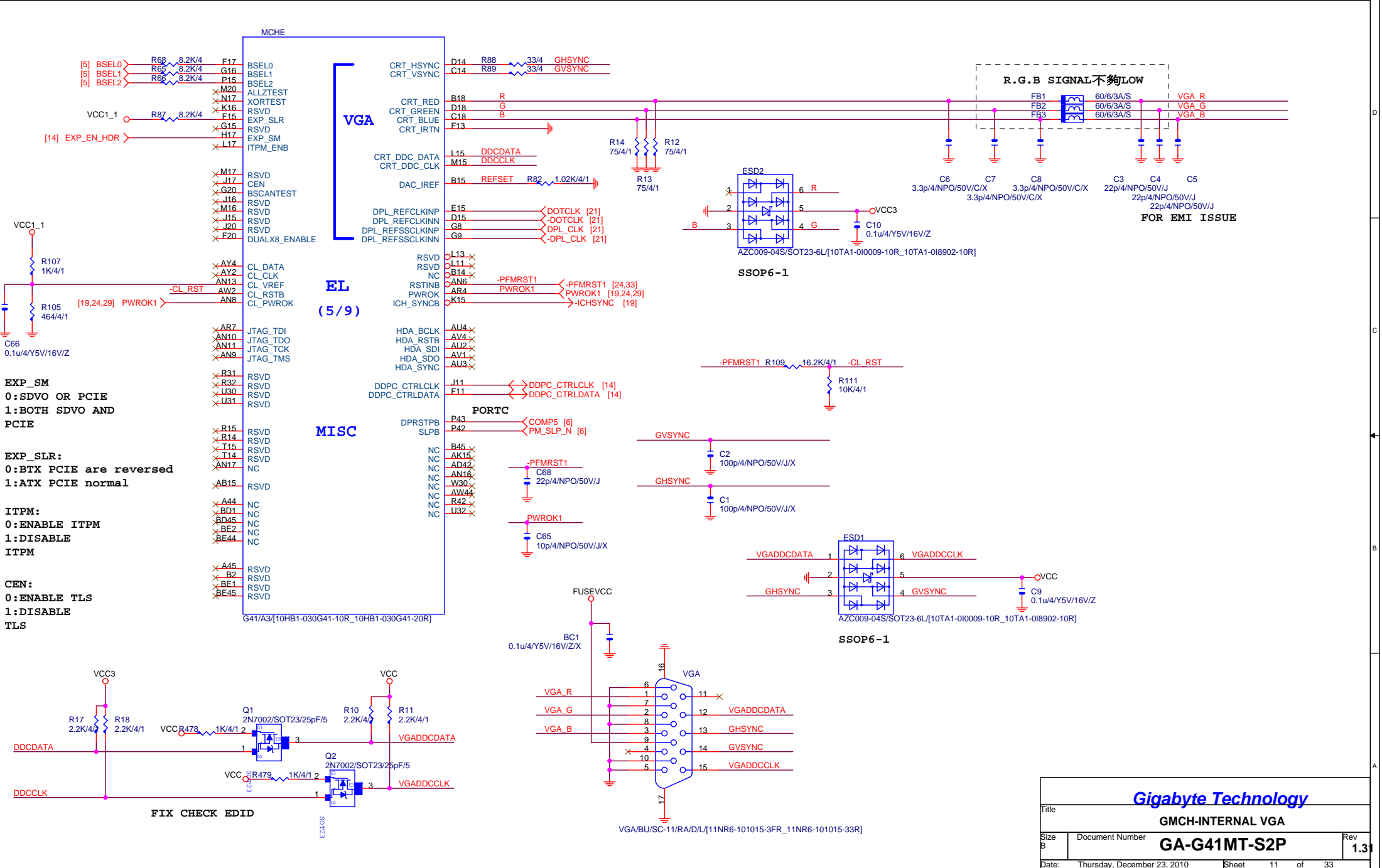
Gigabyte Technology		
GMCH-HOST		
Title		
Size	Document Number	Rev
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Close to MCH



Gigabyte Technology		
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Gigabyte Technology		
Title GMCH-INTERNAL VGA		
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MCHH

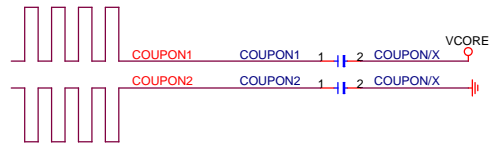
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A15	VSS	EL	VSS	AK38		
A19	VSS		(8/9)	VSS	AK39	
A27	VSS			VSS	AL38	
A31	VSS			VSS	BB6	
A36	VSS			VSS	BD12	
A40	VSS			VSS	BD17	
AA1	VSS			VSS	BD8	
AA8	VSS			GND	VSS	BE10
AA11	VSS				VSS	BE15
AA12	VSS	VSS			BE19	
AA13	VSS	VSS	BE22			
AA20	VSS	VSS	BE24			
AA22	VSS	VSS	BE29			
AA24	VSS	VSS	BE29			
AA26	VSS	VSS	BE34			
AA34	VSS	VSS	BE40			
AA38	VSS	VSS	C16			
AA40	VSS	VSS	C3			
AA44	VSS	VSS	CA			
AB4	VSS	VSS	CA5			
AB6	VSS	VSS	D11			
AB7	VSS	VSS	D16			
AB8	VSS	VSS	D21			
AB11	VSS	VSS	D25			
AB12	VSS	VSS	D26			
AB19	VSS	VSS	D39			
AB21	VSS	VSS	D6			
AB23	VSS	VSS	D7			
AB25	VSS	VSS	E3			
AB27	VSS	VSS	E31			
AB34	VSS	VSS	F41			
AB36	VSS	VSS	E5			
AB39	VSS	VSS	F16			
AC5	VSS	VSS	F2			
AC20	VSS	VSS	F30			
AC22	VSS	VSS	F4			
AC24	VSS	VSS	F42			
AC26	VSS	VSS	F45			
AC45	VSS	VSS	G11			
AD3	VSS	VSS	G17			
AD6	VSS	VSS	G24			
AD9	VSS	VSS	G26			
AD12	VSS	VSS	G29			
AD19	VSS	VSS	G3			
AD21	VSS	VSS	G35			
AD23	VSS	VSS	H1			
AD25	VSS	VSS	H13			
AD27	VSS	VSS	H15			
AD34	VSS	VSS	H16			
AD36	VSS	VSS	H20			
AD39	VSS	VSS	H25			
AE1	VSS	VSS	H30			
AE8	VSS	VSS	H31			
AE11	VSS	VSS	H33			
AE20	VSS	VSS	H38			
AE22	VSS	VSS	H44			
AE24	VSS	VSS	H7			
AE26	VSS	VSS	H8			
AE34	VSS	VSS	H9			
AE38	VSS	VSS	J3			
AE40	VSS	VSS	J37			
AE44	VSS	VSS	J4			
AF6	VSS	VSS	J5			
AF7	VSS	VSS	J8			
AF10	VSS	VSS	J9			
AF11	VSS	VSS	K11			
AF12	VSS	VSS	K13			
AF13	VSS	VSS	K17			
AF33	VSS	VSS	K20			
AF35	VSS	VSS	K24			
AF39	VSS	VSS	K29			
AG5	VSS	VSS	K33			
AG19	VSS	VSS	K45			
AG21	VSS	VSS	L10			
AG23	VSS	VSS	L16			
AG25	VSS	VSS	L20			
AG27	VSS	VSS	L21			
AG45	VSS	VSS	L22			
AH2	VSS	VSS	L29			
AH3	VSS	VSS	L31			
AH4	VSS	VSS	L33			
AJ20	VSS	VSS	L35			
AJ22	VSS	VSS	L39			
AJ24	VSS	VSS	L4			
AJ26	VSS	VSS	L4			
AJ36	VSS	VSS	L6			
AJ39	VSS	VSS	L9			
AJ44	VSS	VSS	L1			
AJ45	VSS	VSS	L1			

G41/A3/[10HB1-030G41-10R_10HB1-030G41-20R]

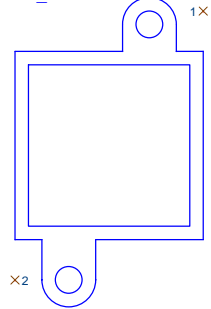
MCHI

BA5	VSS	EL	VSS	L26		
BB21	VSS		(9/9)	VSS	L30	
BB25	VSS			GND	VSS	L35
BB28	VSS				VSS	L39
BB6	VSS				VSS	L4
BD12	VSS				VSS	L6
BD17	VSS				VSS	L9
BD8	VSS				VSS	M1
BE10	VSS				VSS	M24
BE15	VSS	VSS			M25	
BE19	VSS	VSS	M44			
BE22	VSS	VSS	N11			
BE24	VSS	VSS	N13			
BE29	VSS	VSS	N16			
BE34	VSS	VSS	N26			
BE40	VSS	VSS	N29			
C16	VSS	VSS	N30			
C3	VSS	VSS	N33			
CA	VSS	VSS	N36			
CA5	VSS	VSS	N38			
D11	VSS	VSS	N8			
D16	VSS	VSS	P16			
D21	VSS	VSS	P17			
D25	VSS	VSS	P25			
D26	VSS	VSS	P26			
D39	VSS	VSS	P31			
D6	VSS	VSS	R11			
D7	VSS	VSS	R12			
E3	VSS	VSS	R16			
E31	VSS	VSS	R17			
F41	VSS	VSS	R19			
E5	VSS	VSS	R2			
F16	VSS	VSS	R30			
F2	VSS	VSS	R38			
F30	VSS	VSS	R45			
F4	VSS	VSS	R5			
F42	VSS	VSS	R8			
F45	VSS	VSS	R8			
G11	VSS	VSS	T10			
G17	VSS	VSS	T11			
G24	VSS	VSS	T12			
G26	VSS	VSS	T13			
G29	VSS	VSS	T16			
G3	VSS	VSS	T17			
G35	VSS	VSS	T19			
H1	VSS	VSS	T20			
H13	VSS	VSS	T3			
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K17	VSS	VSS	W5			
K20	VSS	VSS	Y10			
K24	VSS	VSS	Y11			
K29	VSS	VSS	Y12			
K33	VSS	VSS	Y13			
K45	VSS	VSS	Y16			
L10	VSS	VSS	Y17			
L16	VSS	VSS	Y19			
L20	VSS	VSS	Y2			
L21	VSS	VSS	Y21			
L22	VSS	VSS	Y23			
L29	VSS	VSS	Y25			
L31	VSS	VSS	Y27			
L33	VSS	VSS	Y3			
L35	VSS	VSS	Y35			
L39	VSS	VSS	Y39			
L4	VSS	VSS	Y9			
L4	VSS	VSS	BC45			
L6	VSS	VSS	BD2			
L9	VSS	VSS	BD44			
M1	VSS	VSS	BE3			
M24	VSS	VSS	BE43			
M25	VSS	VSS	C1			
M44	VSS	VSS	C45			
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N13	VSS	VSS	BD43			
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N26	VSS	VSS				
N29	VSS	VSS				
N30	VSS	VSS				
N33	VSS	VSS				
N36	VSS	VSS				
N38	VSS	VSS				
N8	VSS	VSS				
P16	VSS	VSS				
P17	VSS	VSS				
P25	VSS	VSS				
P26	VSS	VSS				
P31	VSS	VSS				
R11	VSS	VSS				
R12	VSS	VSS				
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R2	VSS	VSS				
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R8	VSS	VSS				
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T9	VSS	VSS				
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Y13	VSS	VSS				
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Y17	VSS	VSS				
Y19	VSS	VSS				
Y2	VSS	VSS				
Y21	VSS	VSS				
Y23	VSS	VSS				
Y25	VSS	VSS				
Y27	VSS	VSS				
Y3	VSS	VSS				
Y35	VSS	VSS				
Y39	VSS	VSS				
Y9	VSS	VSS				
BC45	VSS	VSS				
BD2	VSS	VSS				
BD44	VSS	VSS				
BE3	VSS	VSS				
BE43	VSS	VSS				
C1	VSS	VSS				
C45	VSS	VSS				
F1	VSS	VSS				
BD43	VSS	VSS				
NC	VSS	VSS	AD30			
NC	VSS	VSS	AC30			
NC	VSS	VSS	AF30			
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G41/A3/[10HB1-030G41-10R_10HB1-030G41-20R]



NB_HEATSIN

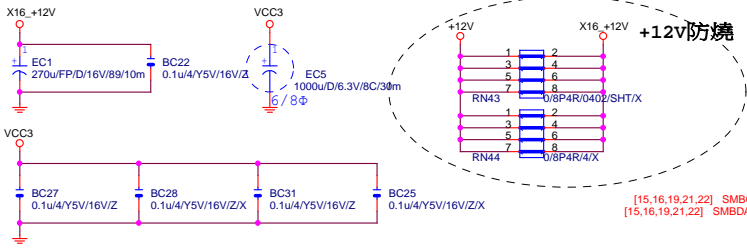


NB_HS
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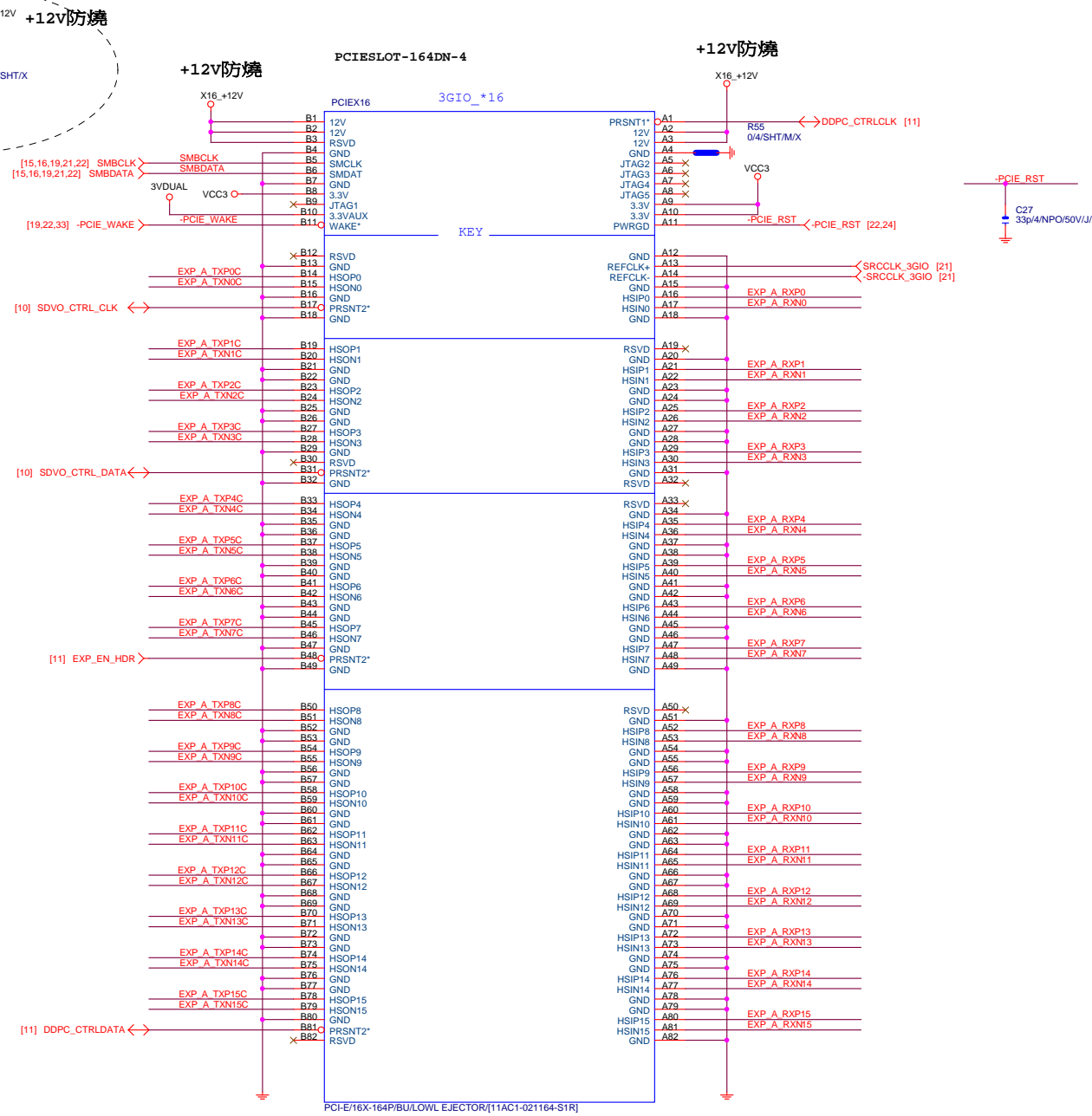
BGASINK445A-L

NEW COST DOWN

Gigabyte Technology		
Title GMCH-GND		
Size Custom	Document Number GA-G41MT-S2P	Rev 1.31
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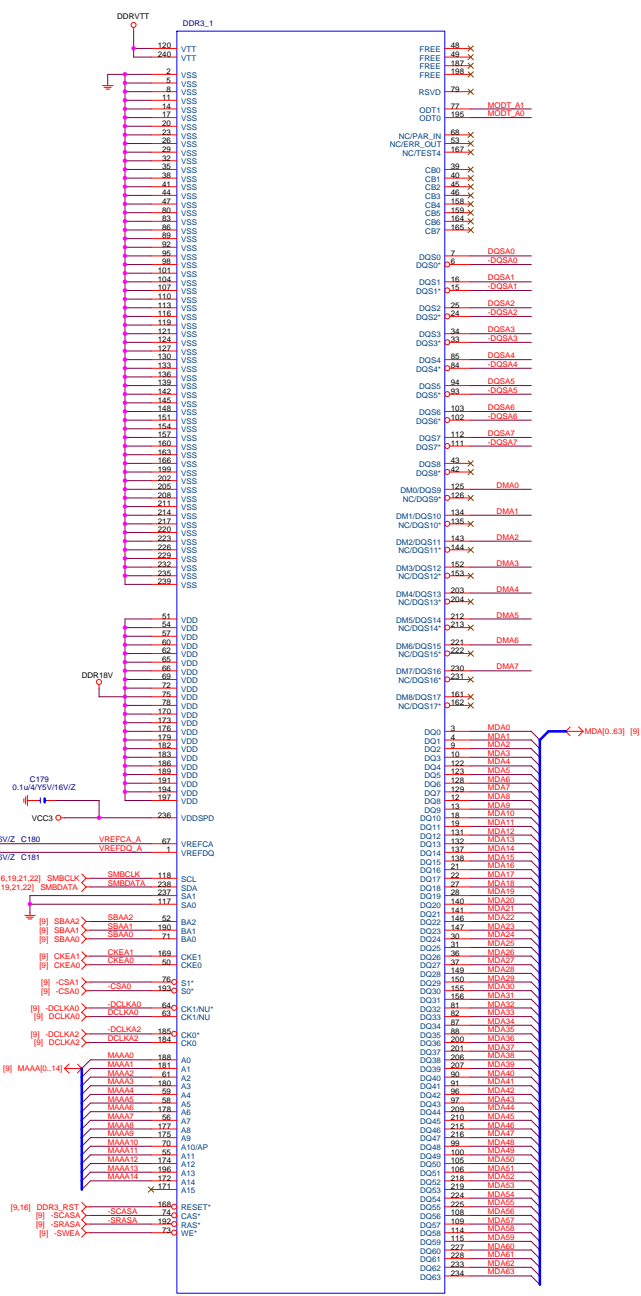


EXP A TXP0	C30	0.1u/4X7R16V/K	EXP A TXP0C
EXP A TXN0	C29	0.1u/4X7R16V/K	EXP A TXN0C
EXP A TXP1	C31	0.1u/4X7R16V/K	EXP A TXP1C
EXP A TXN1	C32	0.1u/4X7R16V/K	EXP A TXN1C
EXP A TXP2	C33	0.1u/4X7R16V/K	EXP A TXP2C
EXP A TXN2	C34	0.1u/4X7R16V/K	EXP A TXN2C
EXP A TXP3	C37	0.1u/4X7R16V/K	EXP A TXP3C
EXP A TXN3	C38	0.1u/4X7R16V/K	EXP A TXN3C
EXP A TXP4	C39	0.1u/4X7R16V/K	EXP A TXP4C
EXP A TXN4	C40	0.1u/4X7R16V/K	EXP A TXN4C
EXP A TXP5	C42	0.1u/4X7R16V/K	EXP A TXP5C
EXP A TXN5	C41	0.1u/4X7R16V/K	EXP A TXN5C
EXP A TXP6	C44	0.1u/4X7R16V/K	EXP A TXP6C
EXP A TXN6	C43	0.1u/4X7R16V/K	EXP A TXN6C
EXP A TXP7	C47	0.1u/4X7R16V/K	EXP A TXP7C
EXP A TXN7	C45	0.1u/4X7R16V/K	EXP A TXN7C
EXP A TXP8	C48	0.1u/4X7R16V/K	EXP A TXP8C
EXP A TXN8	C49	0.1u/4X7R16V/K	EXP A TXN8C
EXP A TXP9	C59	0.1u/4X7R16V/K	EXP A TXP9C
EXP A TXN9	C60	0.1u/4X7R16V/K	EXP A TXN9C
EXP A TXP10	C63	0.1u/4X7R16V/K	EXP A TXP10C
EXP A TXN10	C62	0.1u/4X7R16V/K	EXP A TXN10C
EXP A TXP11	C67	0.1u/4X7R16V/K	EXP A TXP11C
EXP A TXN11	C64	0.1u/4X7R16V/K	EXP A TXN11C
EXP A TXP12	C69	0.1u/4X7R16V/K	EXP A TXP12C
EXP A TXN12	C70	0.1u/4X7R16V/K	EXP A TXN12C
EXP A TXP13	C73	0.1u/4X7R16V/K	EXP A TXP13C
EXP A TXN13	C72	0.1u/4X7R16V/K	EXP A TXN13C
EXP A TXP14	C76	0.1u/4X7R16V/K	EXP A TXP14C
EXP A TXN14	C74	0.1u/4X7R16V/K	EXP A TXN14C
EXP A TXP15	C78	0.1u/4X7R16V/K	EXP A TXP15C
EXP A TXN15	C77	0.1u/4X7R16V/K	EXP A TXN15C

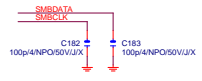
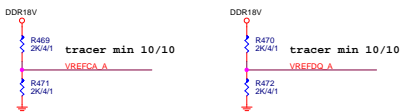
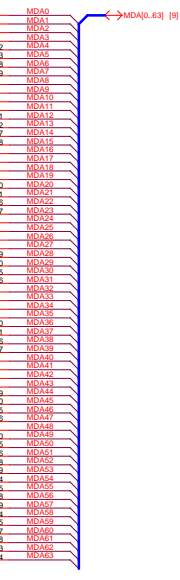


LOW LEFT BLUE

Gigabyte Technology			
PCI EXPRESS * 16			
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		Rev	1.31

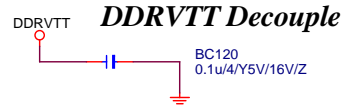
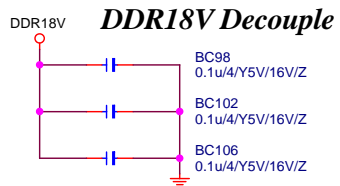
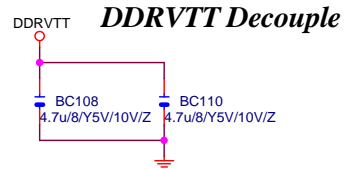
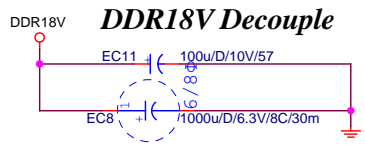


FREE	48	X
FREE	49	X
FREE	187	X
FREE	188	X
RSVD	70	X
ODT1	77	X
ODT0	156	X
MODT_A1	77	X
MODT_A0	156	X
NC/PAR_IN	68	X
NC/ERR_OUT	53	X
NC/TEST4	160	X
CB0	39	X
CB1	40	X
CB2	46	X
CB3	164	X
CB4	164	X
CB5	164	X
CB6	164	X
CB7	164	X
DQS0	7	DQSA0
DQS0	6	DQSA0
DQS1	16	DQSA1
DQS1	15	DQSA1
DQS2	25	DQSA2
DQS2	24	DQSA2
DQS3	34	DQSA3
DQS3	33	DQSA3
DQS4	85	DQSA4
DQS4	84	DQSA4
DQS5	94	DQSA5
DQS5	93	DQSA5
DQS6	103	DQSA6
DQS6	102	DQSA6
DQS7	112	DQSA7
DQS7	111	DQSA7
DQS8	43	X
DQS8	42	X
DQS9	127	X
DMA0	128	X
DM0DQS9	128	X
NC/DQS9	128	X
DM1DQS10	134	X
NC/DQS10	133	X
DM2DQS11	143	X
NC/DQS11	144	X
DM3DQS12	152	X
NC/DQS12	153	X
DM4DQS13	203	X
NC/DQS13	204	X
DM5DQS14	212	X
NC/DQS14	213	X
DM6DQS15	221	X
NC/DQS15	222	X
DM7DQS16	230	X
NC/DQS16	231	X
DM8DQS17	162	X
NC/DQS17	163	X
MDA0	3	MDA0
MDA1	4	MDA1
MDA2	9	MDA2
MDA3	122	MDA3
MDA4	123	MDA4
MDA5	128	MDA5
MDA6	129	MDA6
MDA7	12	MDA7
MDA8	13	MDA8
MDA9	18	MDA9
MDA10	19	MDA10
MDA11	131	MDA11
MDA12	132	MDA12
MDA13	137	MDA13
MDA14	138	MDA14
MDA15	21	MDA15
MDA16	22	MDA16
MDA17	22	MDA17
MDA18	28	MDA18
MDA19	28	MDA19
MDA20	141	MDA20
MDA21	141	MDA21
MDA22	146	MDA22
MDA23	147	MDA23
MDA24	30	MDA24
MDA25	31	MDA25
MDA26	36	MDA26
MDA27	37	MDA27
MDA28	149	MDA28
MDA29	150	MDA29
MDA30	156	MDA30
MDA31	156	MDA31
MDA32	81	MDA32
MDA33	82	MDA33
MDA34	87	MDA34
MDA35	88	MDA35
MDA36	200	MDA36
MDA37	201	MDA37
MDA38	201	MDA38
MDA39	207	MDA39
MDA40	98	MDA40
MDA41	91	MDA41
MDA42	97	MDA42
MDA43	97	MDA43
MDA44	209	MDA44
MDA45	210	MDA45
MDA46	215	MDA46
MDA47	216	MDA47
MDA48	99	MDA48
MDA49	100	MDA49
MDA50	106	MDA50
MDA51	108	MDA51
MDA52	218	MDA52
MDA53	218	MDA53
MDA54	224	MDA54
MDA55	225	MDA55
MDA56	108	MDA56
MDA57	109	MDA57
MDA58	114	MDA58
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MDA61	228	MDA61
MDA62	233	MDA62
MDA63	234	MDA63



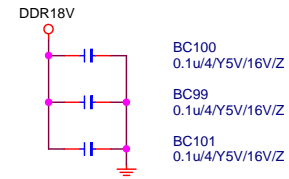
Gigabyte Technology		
DDR3 CHANNEL A		
GA-G41MT-S2P		
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DDR TERMINATION CHANNEL A

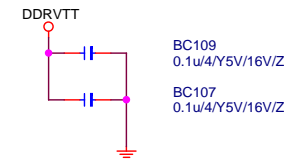


DDR TERMINATION CHANNEL B

DDR18V Decouple

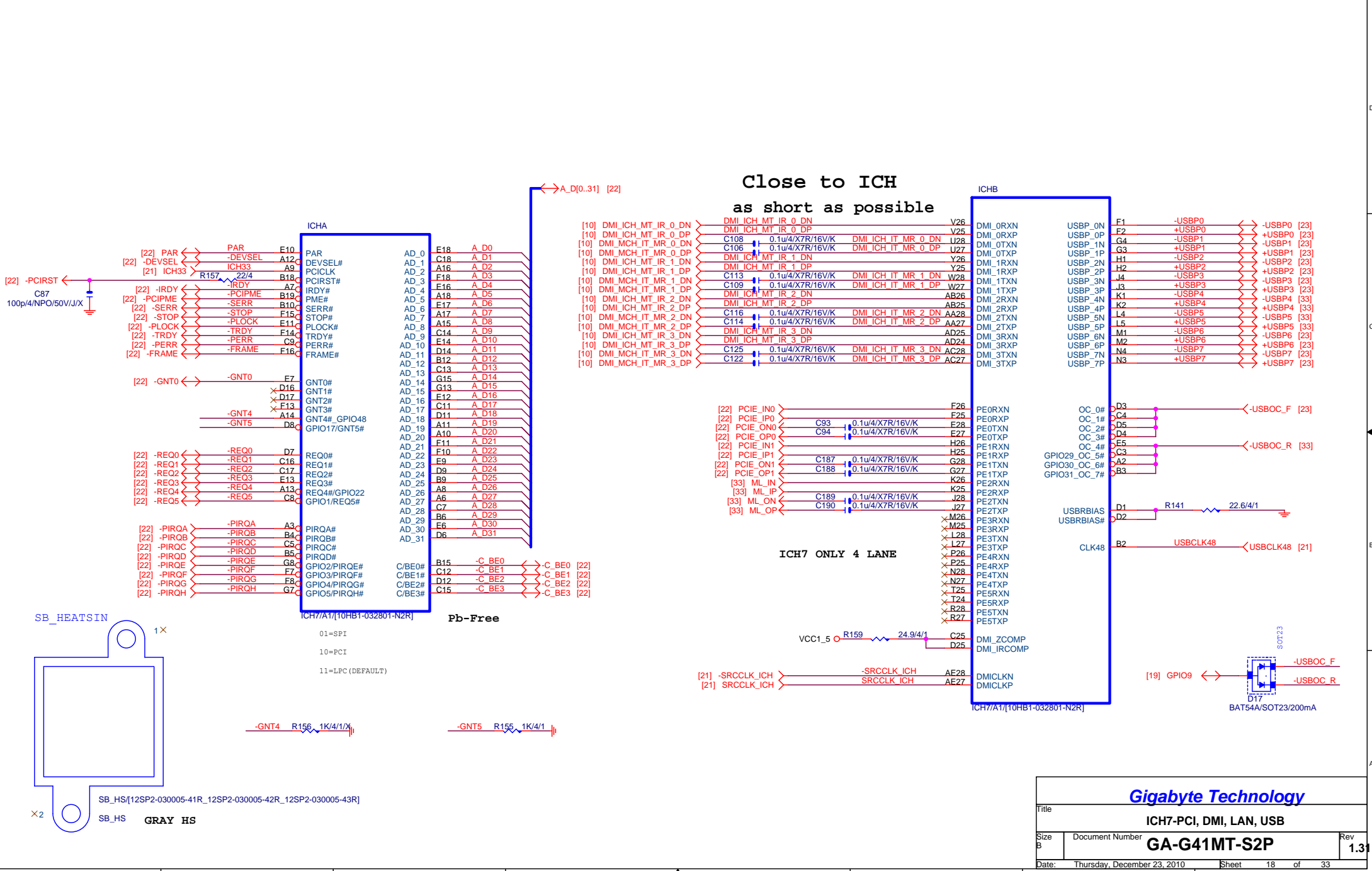


DDRVTT Decouple



Gigabyte Technology

Title			DDRII TERMINATOR
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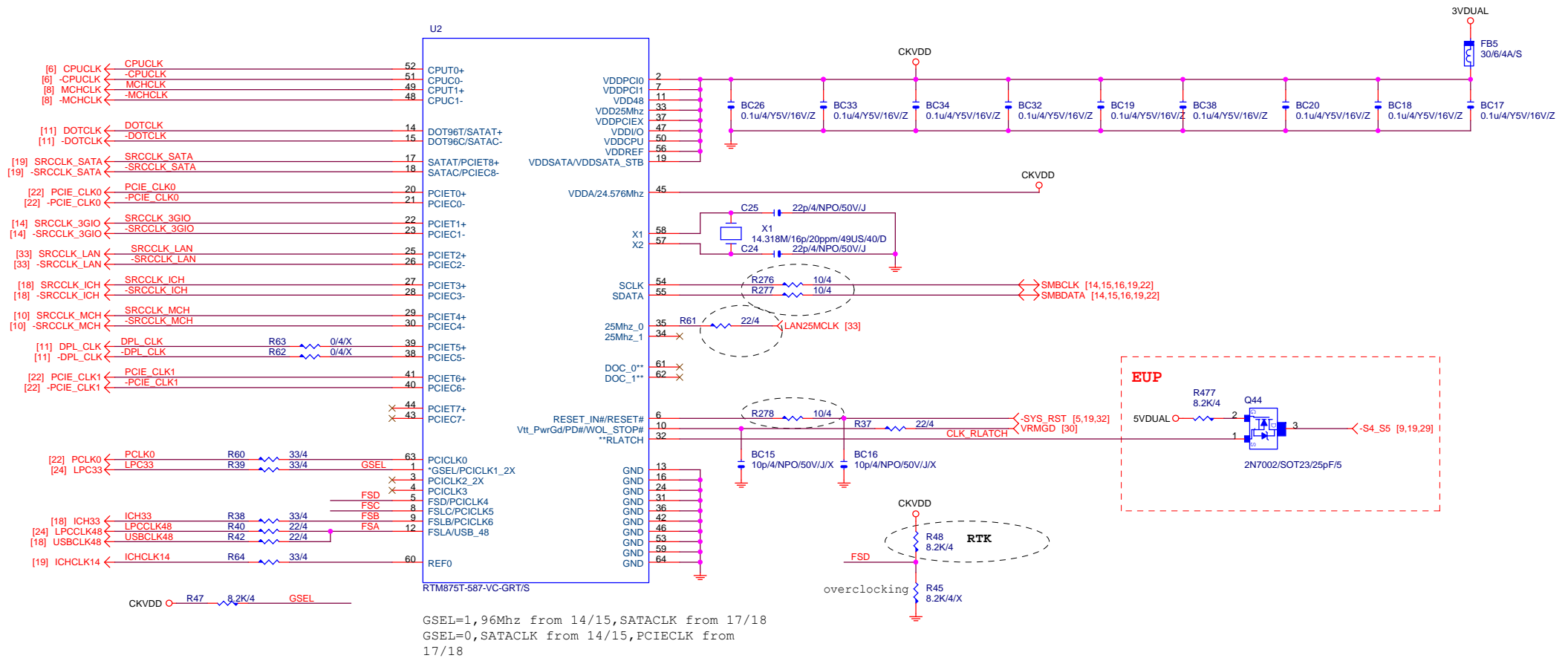
**Close to ICH
as short as possible**

ICHB

ICH7 ONLY 4 LANE

Gigabyte Technology

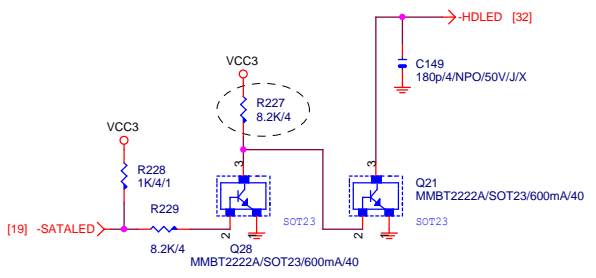
Title			ICH7-PCI, DMI, LAN, USB
Size	Document Number	GA-G41MT-S2P	
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		Rev	1.3



GSEL=1, 96Mhz from 14/15, SATACLK from 17/18
 GSEL=0, SATACLK from 14/15, PCIECLK from 17/18

- [5] FSBSEL0) R36 1K/4/1 FSA
- [5] FSBSEL1) R43 1K/4/1 FSB
- [5] FSBSEL2) R44 1K/4/1 FSC

IDE/SATA LED

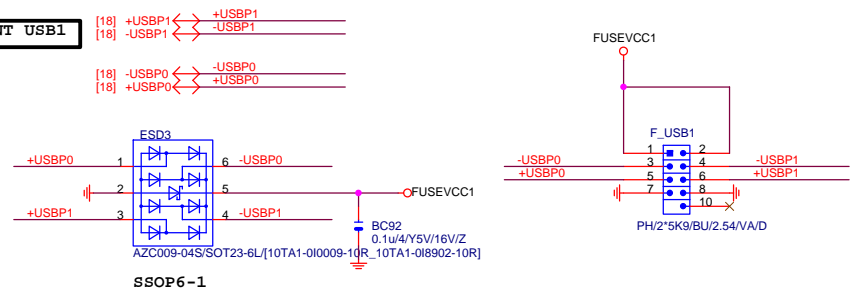


IDE RESET N/A

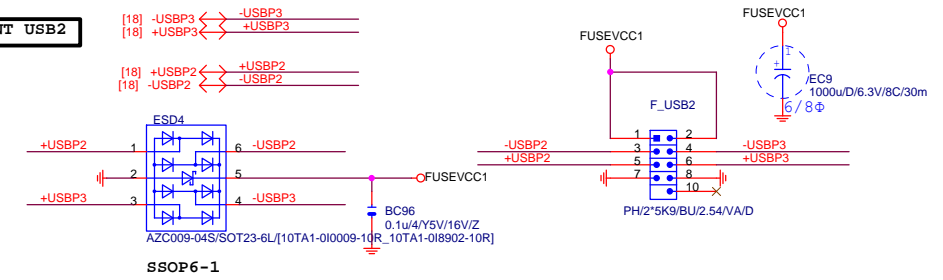
FLOPPY N/A

IDE N/A

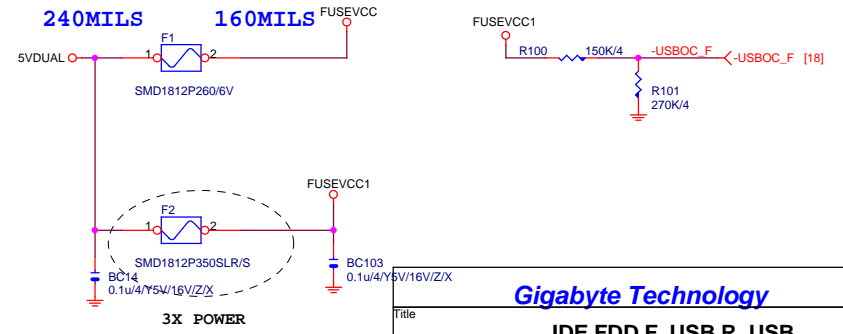
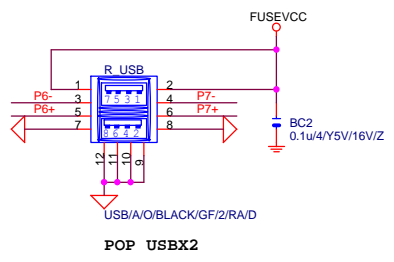
FRONT USB1



FRONT USB2

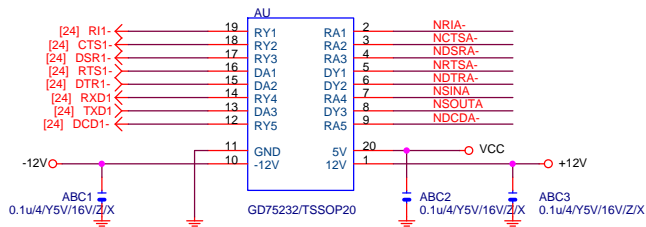


- [18] -USBP7 <-> -USBP7 P7-
- [18] +USBP7 <-> +USBP7 P7+
- [18] -USBP6 <-> -USBP6 P6-
- [18] +USBP6 <-> +USBP6 P6+

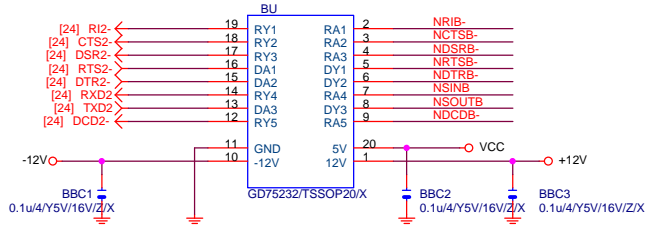


Gigabyte Technology		
IDE,FDD,F_USB,R_USB		
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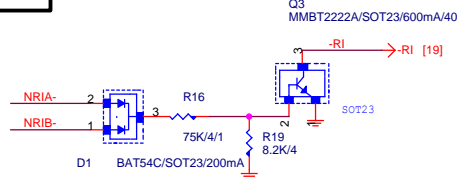
COMA



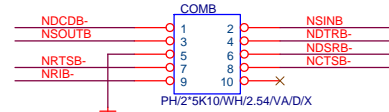
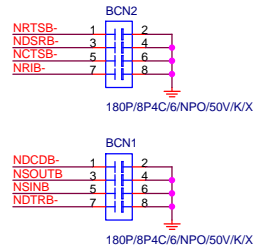
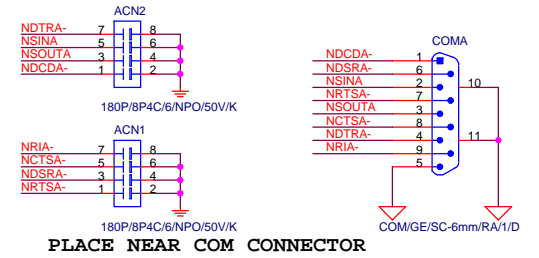
IC20TSSOP-1



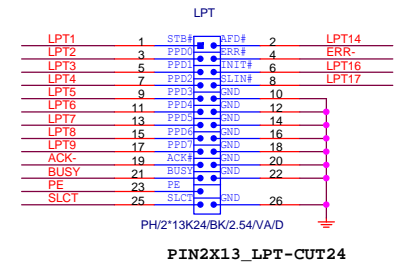
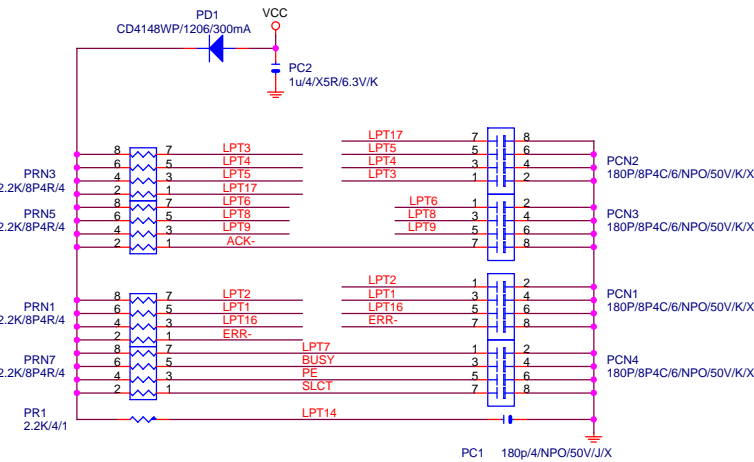
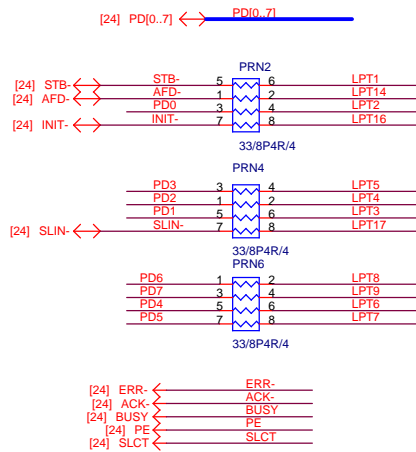
RING IN



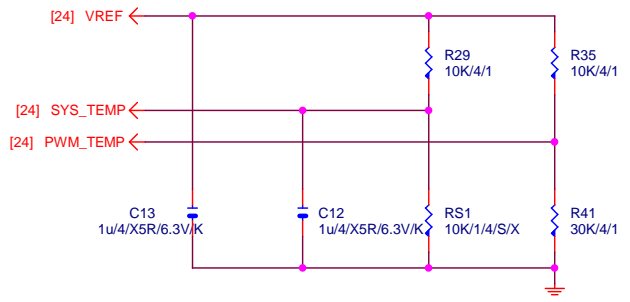
EXTERNAL COMA



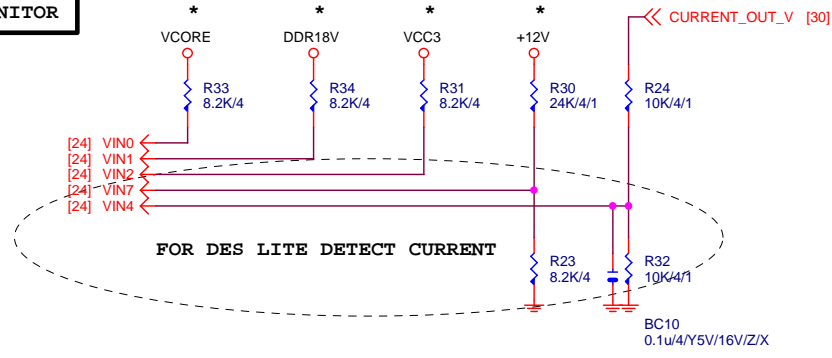
LPT PORT



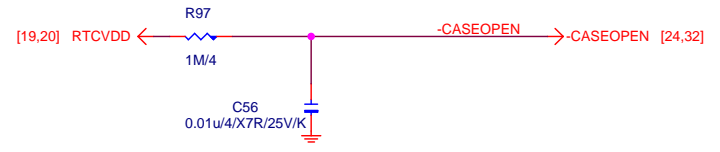
TEMP H/W MONITOR



VOLTAGE-- H/W MONITOR

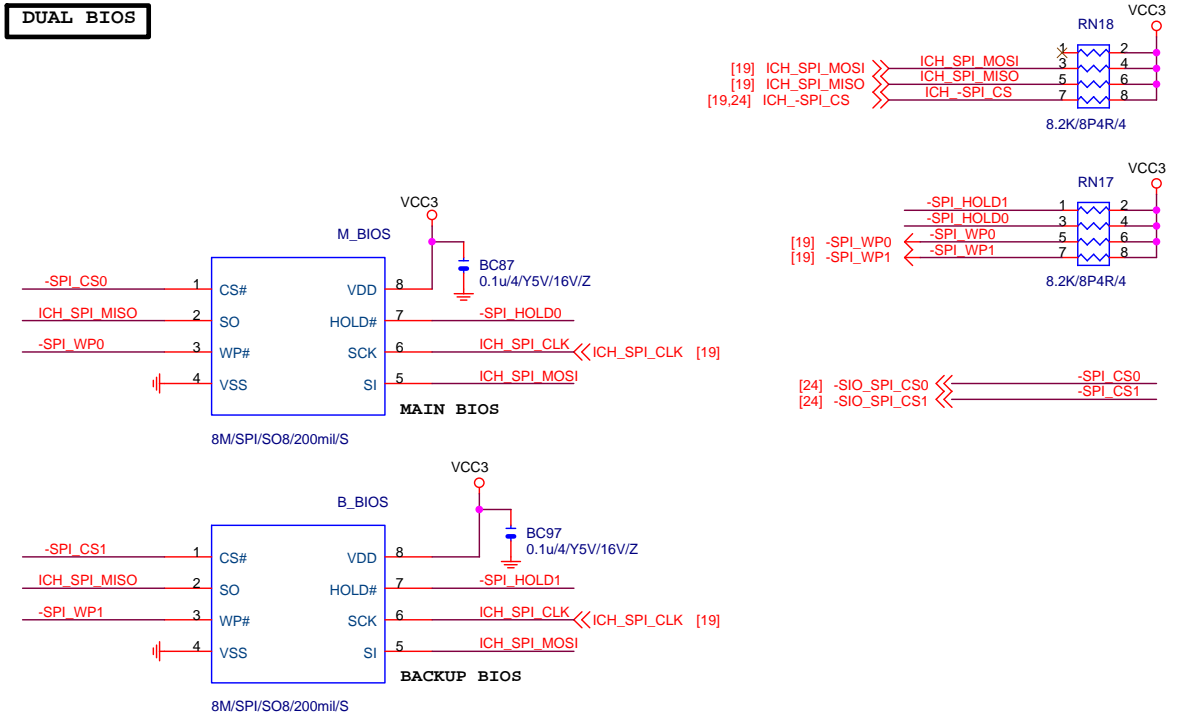


CASE OPEN

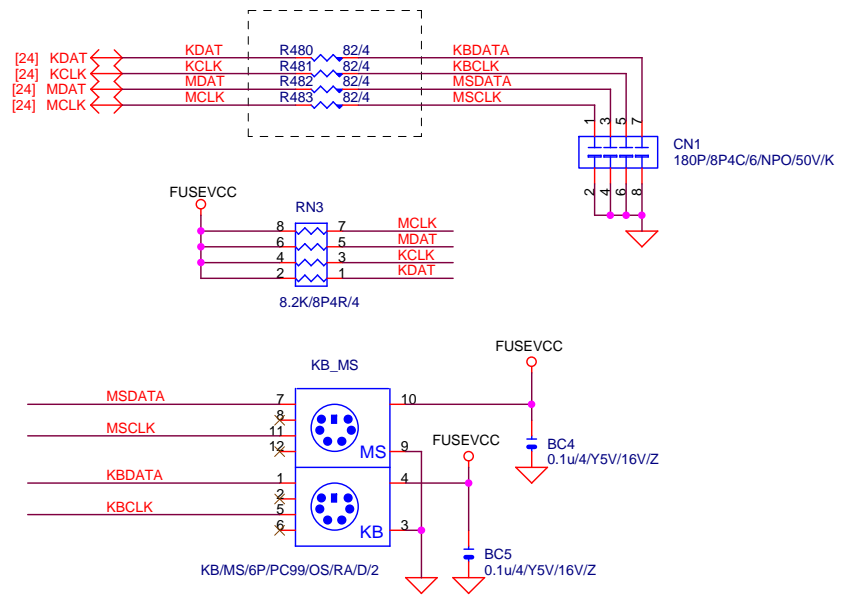


Case Open Circuits

DUAL BIOS

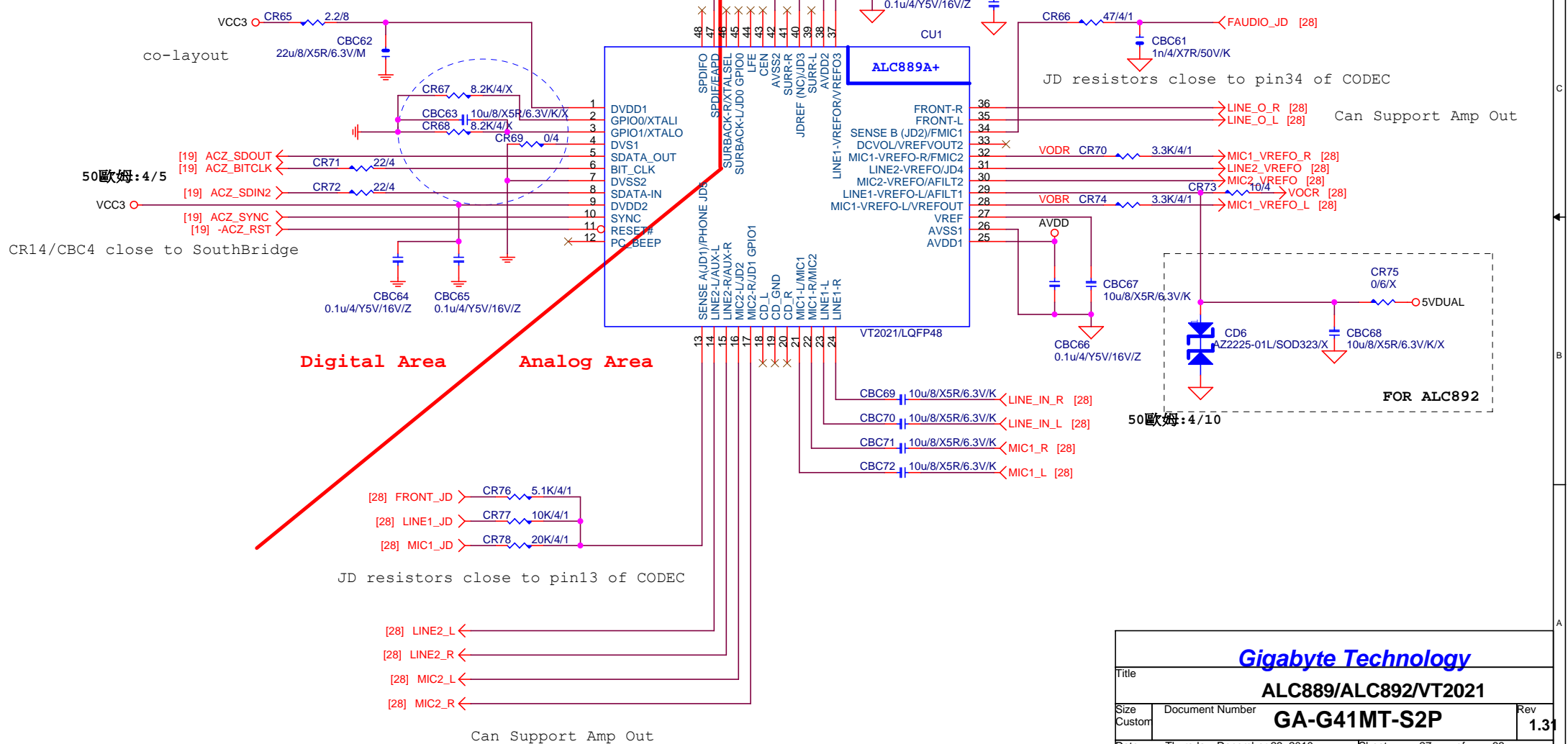


KB/MS

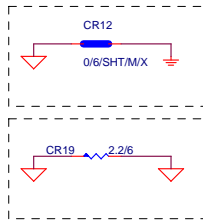
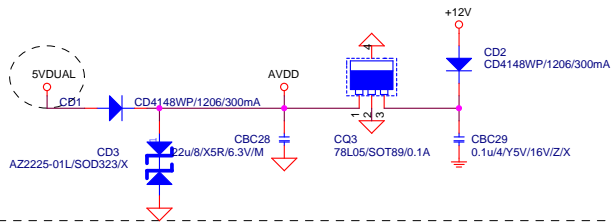


	ALC888B	ALC888-VA	ALC889A	ALC888B-VD	ALC892
CR59	X	O	O	O	O
CR53, 58	X	X	O	X	X
CR56	O	O	O	O	X
CR63	X	X	X	X	O
CR34	20K/1%	20K/1%	20K/0.1%	20K/1%	20K/1%

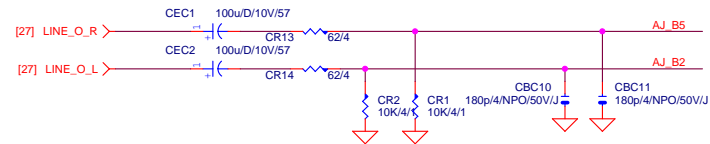
5.1K/4/1% @VT2021
 20K/4/0.1% @ALC889A
 20K/4/1% @ALC889A+/ALC888Vx



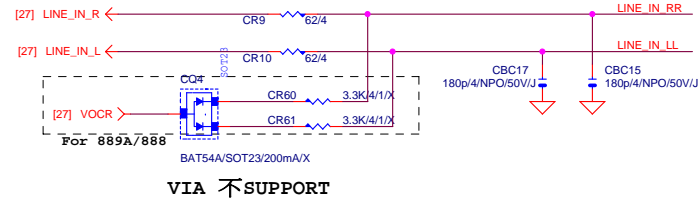
CODEC POWER/EMI PAD



LINE-OUT



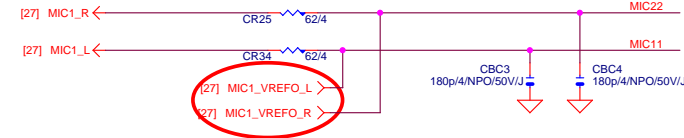
LINE-IN



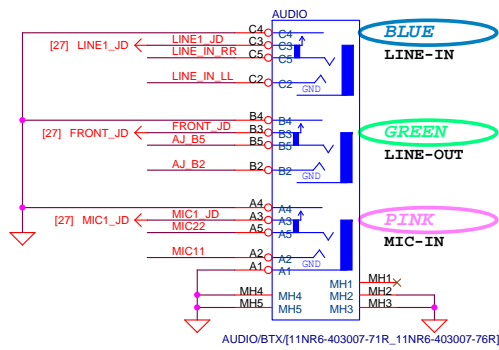
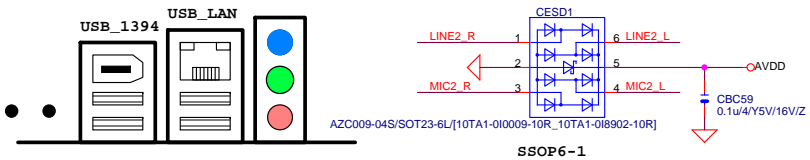
CD IN N/A

SPDIF IN N/A

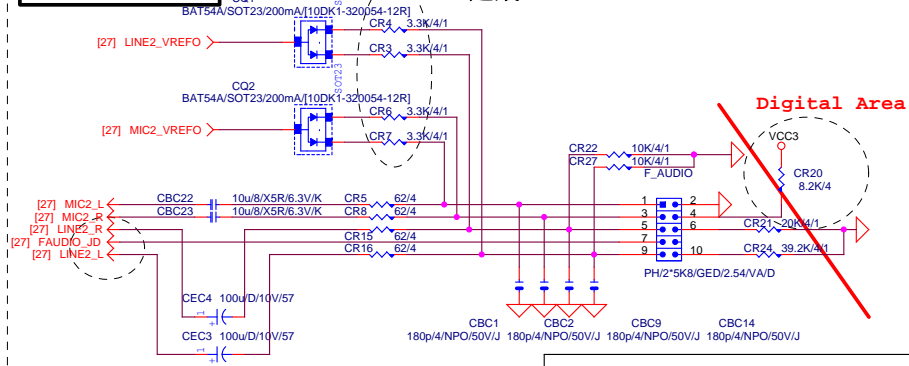
MIC-IN



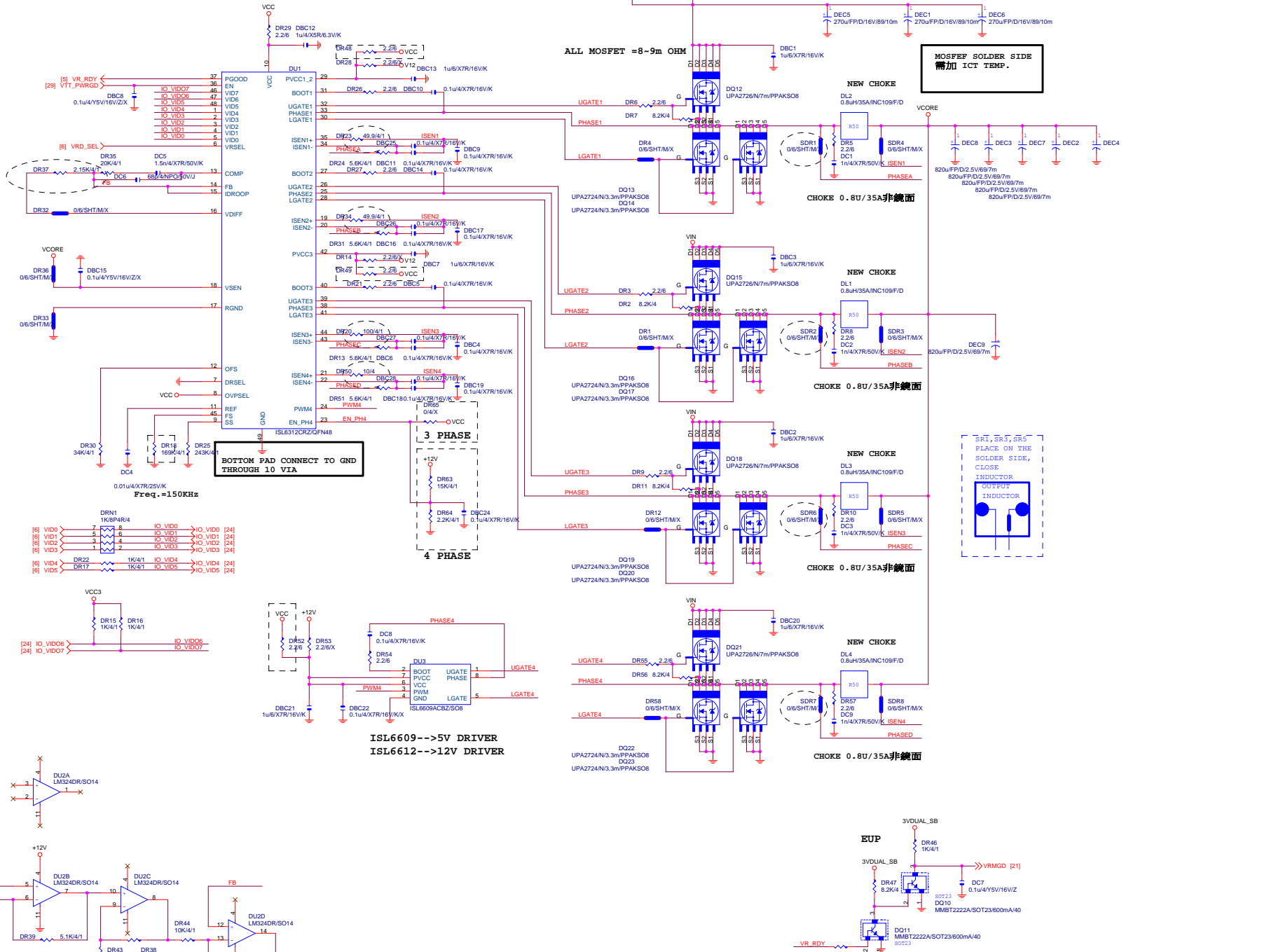
AZALIA JACK



AZALIA FRONT PANE



Gigabyte Technology		
Title: AUDIO JACK		
Size: Custom		
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ALL MOSFET = 8-9m OHM

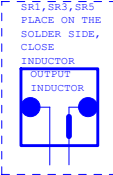
MOSFET SOLDER SIDE
需加 ICT TEMP.

NEW CHOKE
DQ12 0.8uH/35A/INC109/F/D

NEW CHOKE
DQ15 0.8uH/35A/INC109/F/D

NEW CHOKE
DQ18 0.8uH/35A/INC109/F/D

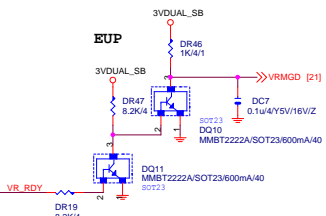
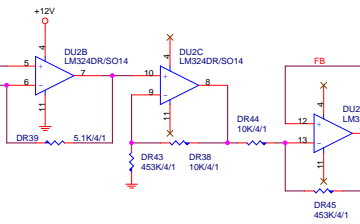
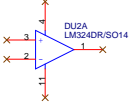
NEW CHOKE
DQ21 0.8uH/35A/INC109/F/D



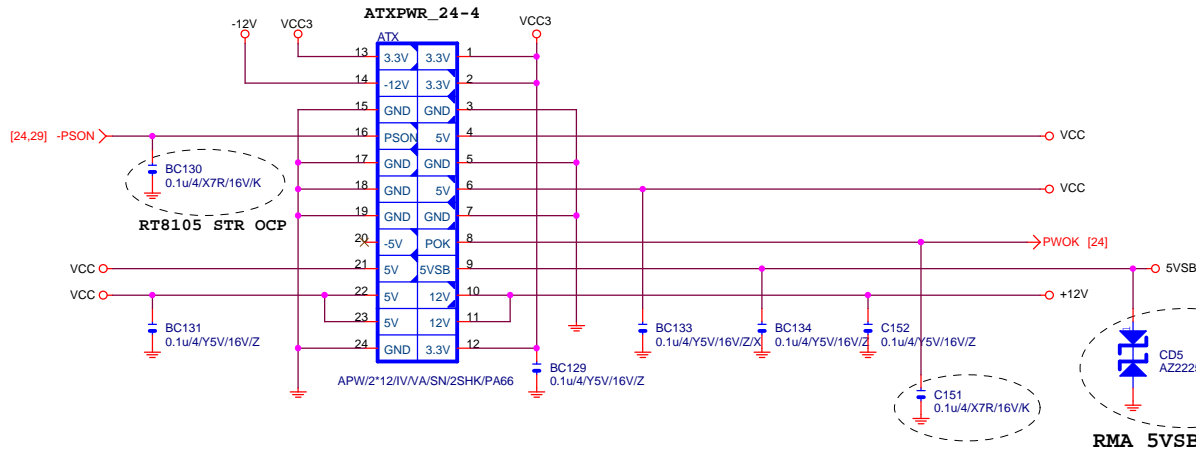
BOTTOM PAD CONNECT TO GND THROUGH 10 VIA

Freq. = 150KHz

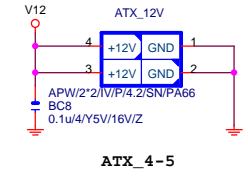
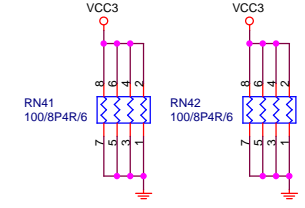
ISL6609-->5V DRIVER
ISL6612-->12V DRIVER



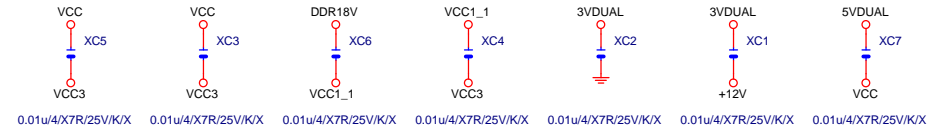
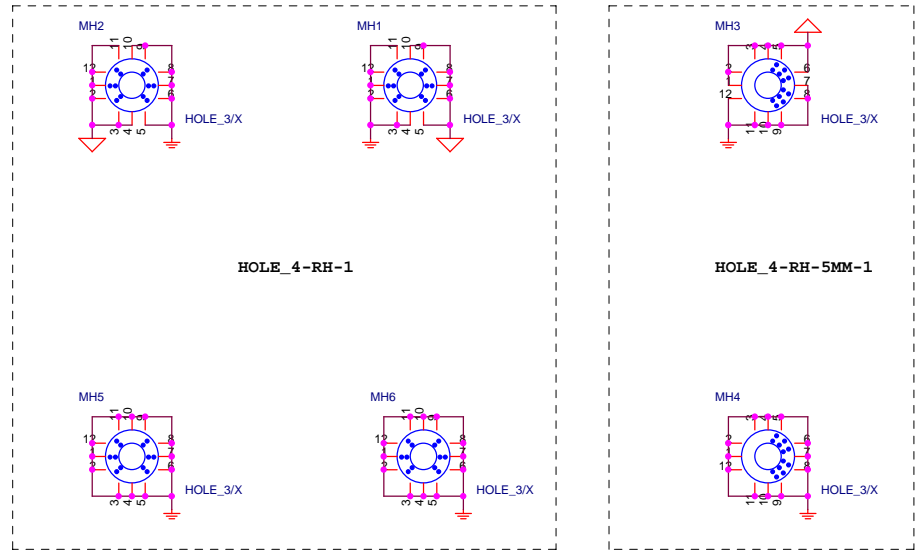
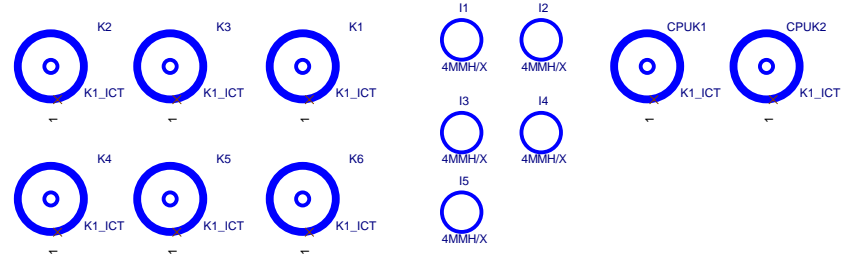
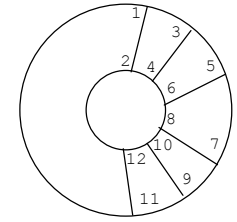
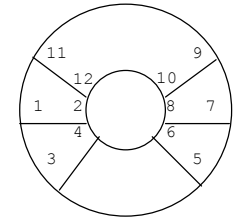
ATX POWER CONNECTOR



FIX PWR AcBel(ATX-400C-A2ADB)



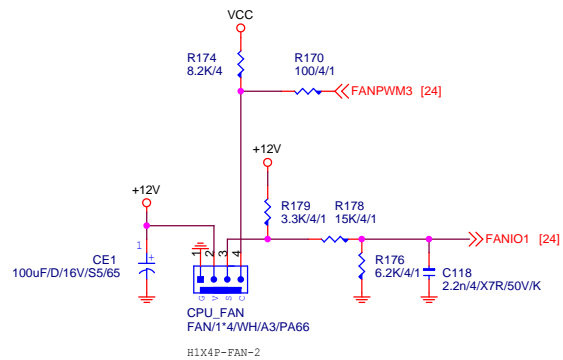
RMA 5VSB ESD



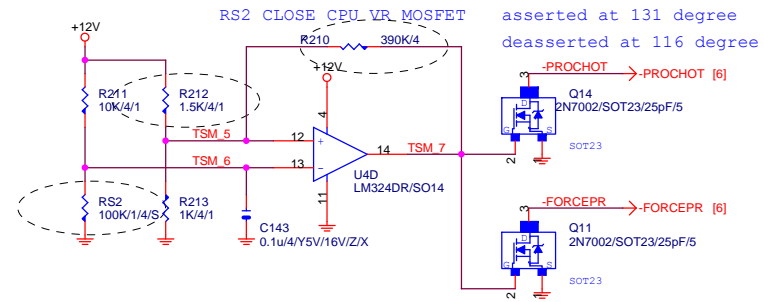
Gigabyte Technology

Title			ATX POWER CONNECTOR		
Size	Document Number		Rev		
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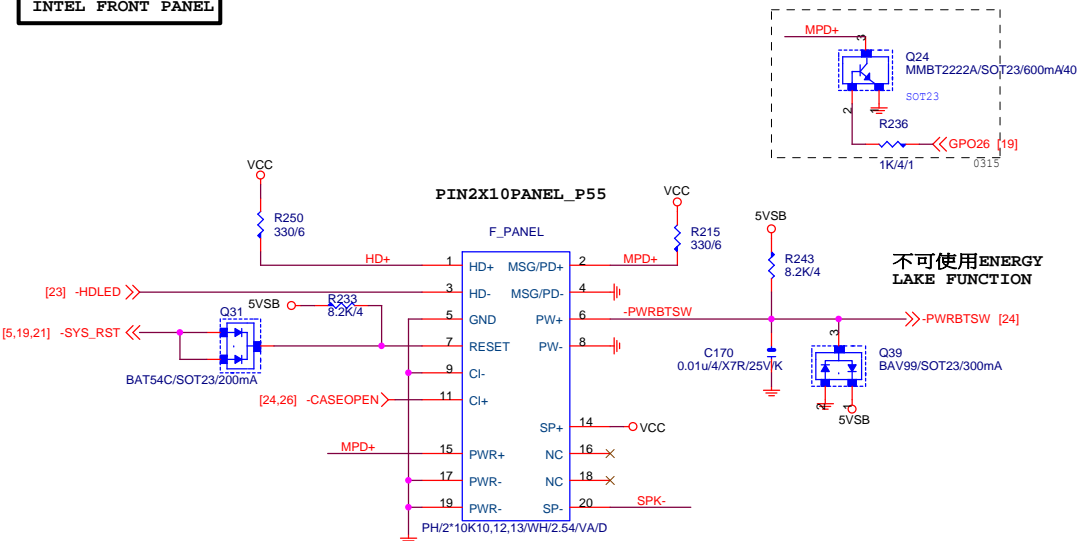
CPU SMART FAN SMART FAN



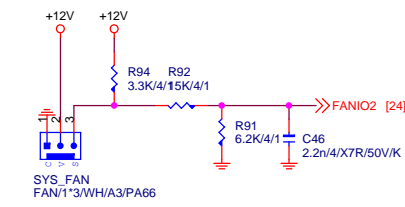
PROCESSOR HOT



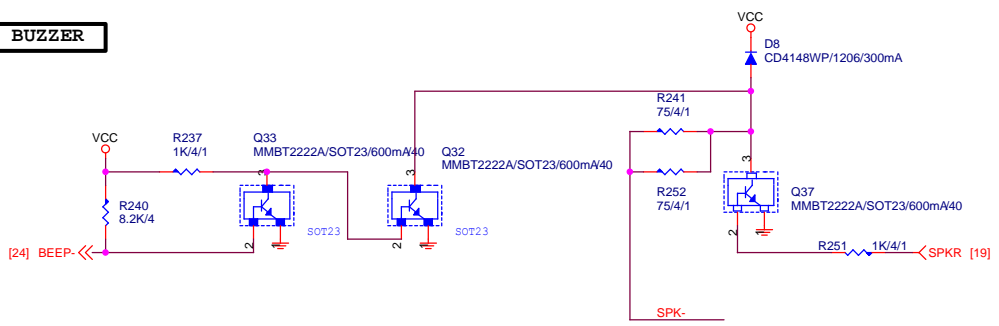
INTEL FRONT PANEL



SYS_FAN



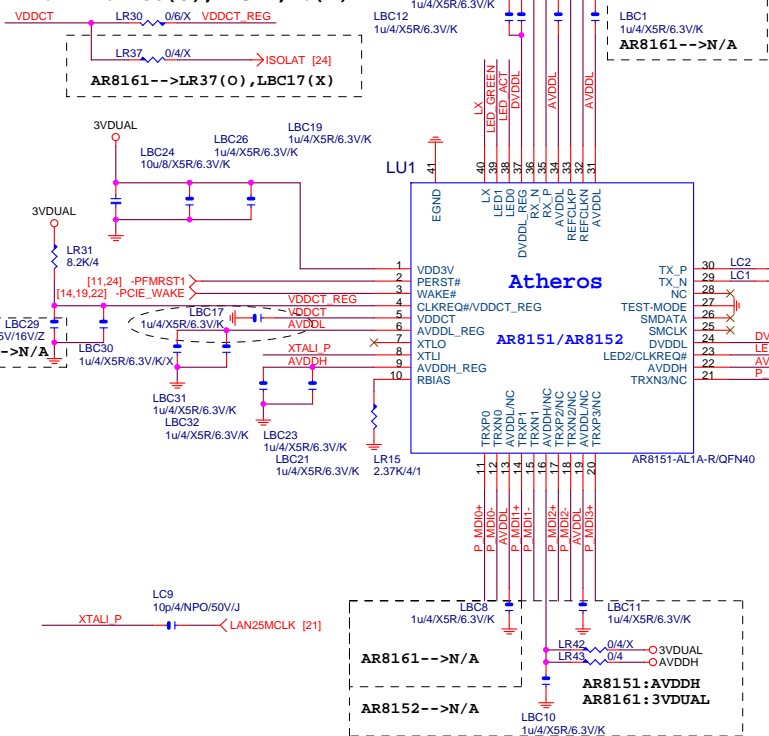
BUZZER



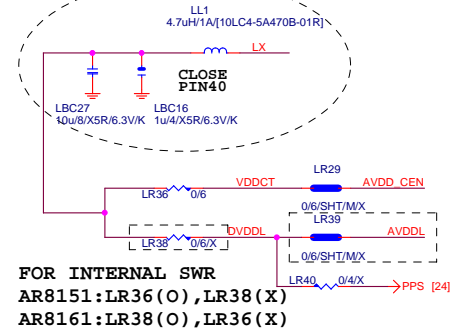
PCIE-1G LAN

AR8131/AR8132 SWR:
LL1, LBC27, LBC16(O), LR30(X)

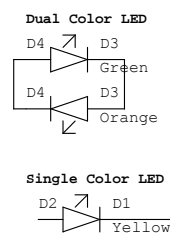
AR8152 LDO OUTPUT (PIN4): LL1(X)
1. AL1A: LR30(O), LBC27, 26(O)
2. BL1A: LR30(O), LBC27, 26(X)



CHOKE4U7-500MA-1

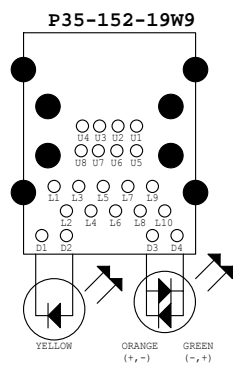
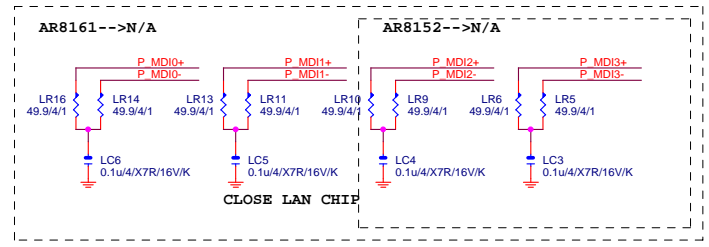


FOR INTERNAL SWR
AR8151: LR36(O), LR38(X)
AR8161: LR38(O), LR36(X)



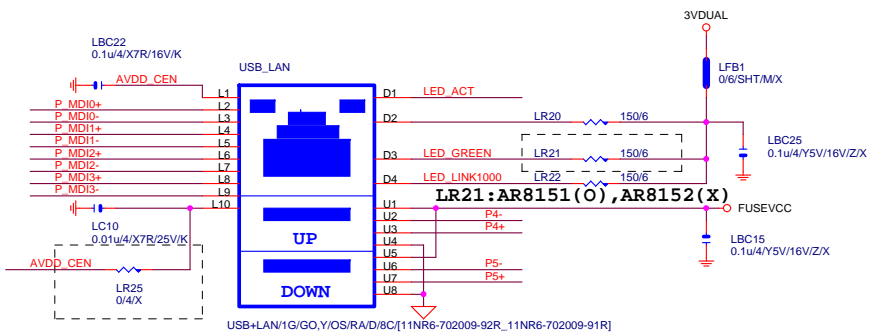
LED0 (ACT) LED1 (LINK) LED2 (LINK1G)

CLKREQ# PULL-UP FOR EFUSE:
1. AR8151: LR31(O), LR32(X)
2. AR8152: LR31(X), LR32(O)



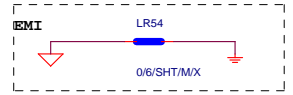
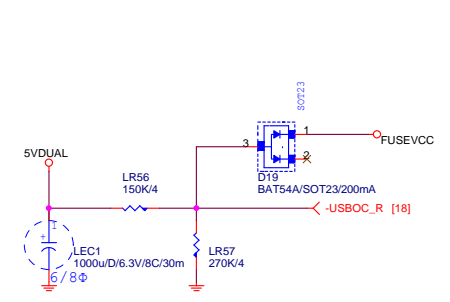
USB_LAN CONNECTOR

1G : USB+LAN/1G/GO, Y/OS/RA/D/1
100M: USB+LAN/100/GO, Y/OS/RA/D/1



LR25: AR8151(X), AR8152(O)
因100M LAN CONNECTOR 差異

USB_LAN



Gigabyte Technology			
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