



SHEET	TITLE
01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1156-A
05	CPU_LGA1156-B
06	CPU_LGA1156-C
07	DDR III CHANNEL A
08	DDR III CHANNEL B
09	DDR III POWER CAP
10	PCH_FDI,DMI,USB,PCIE,NVRAM
11	PCH_DP,CLK BUFFER , DVI
12	PCH_HOST,SATA,PCI
13	PCH_GPIO,CTRL,AUDIO
14	PCH_PWR,GND
15	PCI EXPRESS*16 SLOT
16	PCI EXPRESS*1 SLOT
17	PCI SLOT 1,2
18	ITE 8720 LPC IO
19	Dual BIOS,PHOT,D-OC
20	ALC888B-VD2
21	REAR AUDIO JACK
22	CLOCK GEN RTM885N-914
23	DISCRETE POWER
24	ISL6545_DDR_15V,CPU_VTT,PWR SEQ
25	CPU_VAXG PWM_ISL6314CRZ
26	VCORE PWM_ISL6333CR
27	F_PANEL , F_USB , FDD

[illegible]

Gigabyte Technology			
Title			
Cover Sheet			
Size Custom	Document Number	GA-H55M-S2V	Re 1.
Date:	Friday, July 30, 2010	Sheet	1 of 31

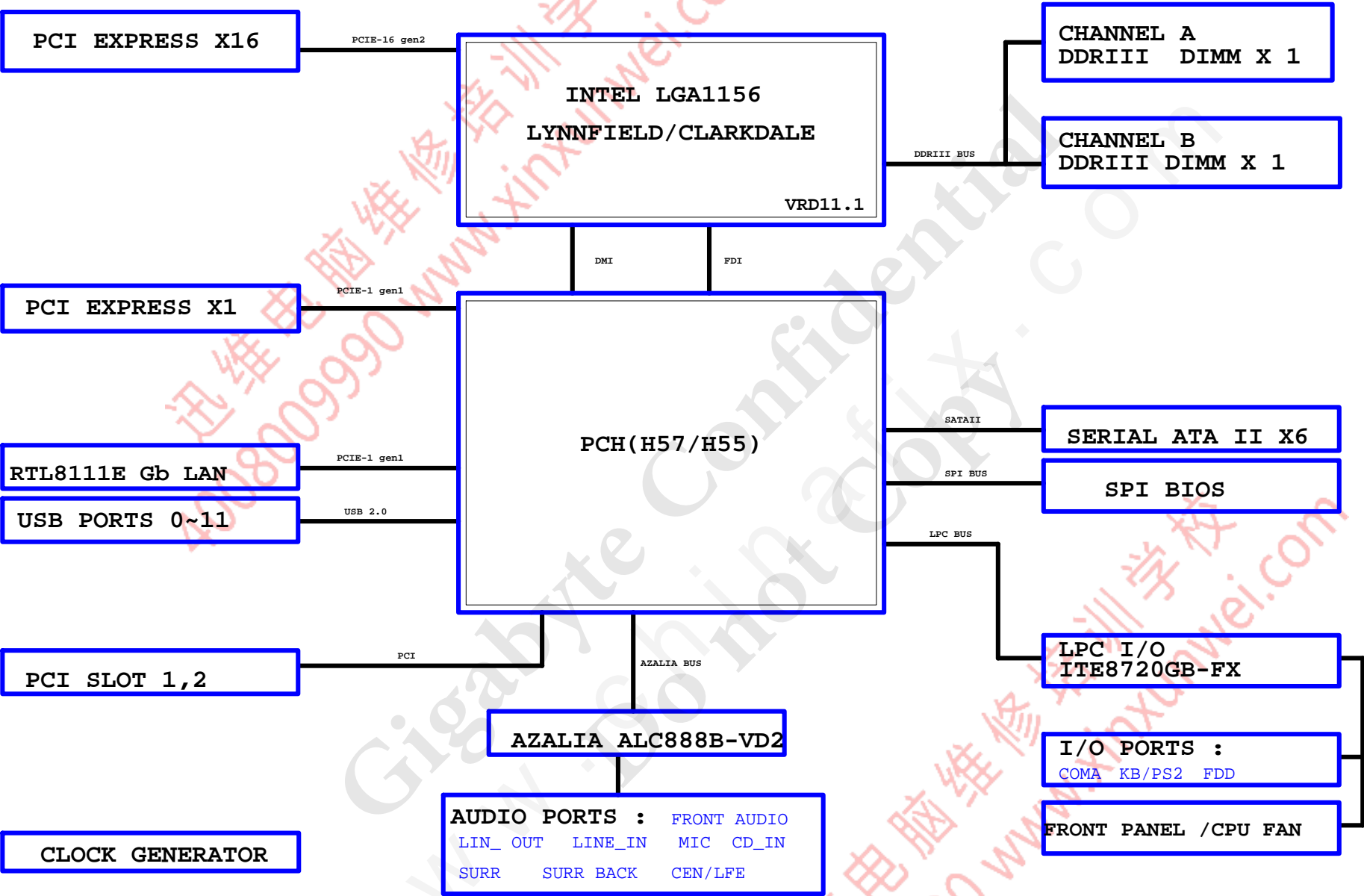


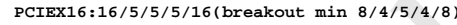
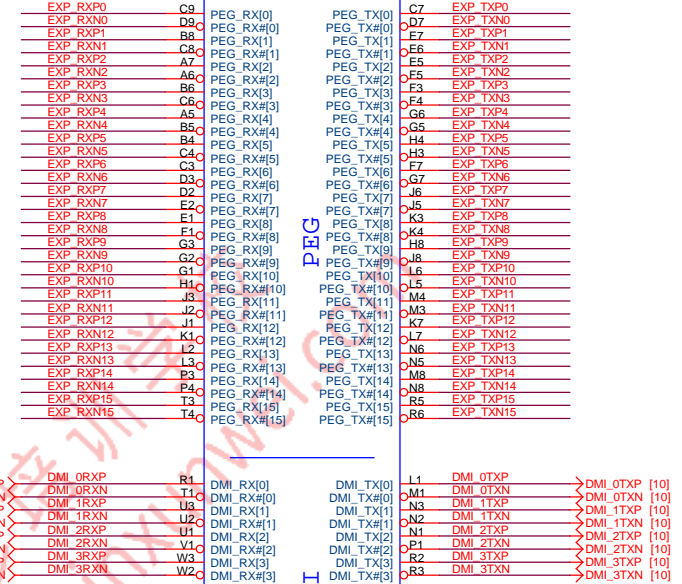
Component value change history

2010/07/29

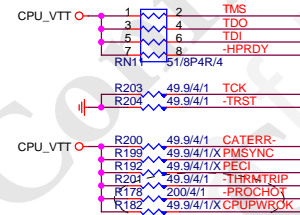
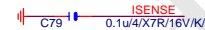
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BLOCK DIAGRAM

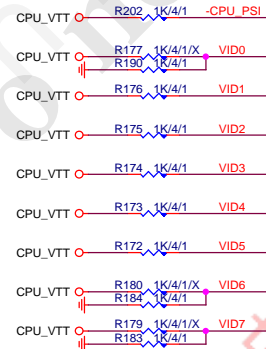




Impedance=80 +- 17.5%



DMI:12/5/5/5/12
Impedance=80 +- 17.5%



	FUNCTION	DEFAULT
VID0	MSI0	0
VID1	MSI1	1
VID2	MSI2	1
VID3	IMON CFG0	1
VID4	IMON CFG1	1
VID5	IMON CFG2	1
VID6	RSVD	0
VID7	VRD SEL	0
PSI#	RSVD	

POWER ON CONFIG TABLE (Default=1.2250V)

DISPLAY
LINK

LGA1156/[10SC1-F01156-05R_10SC1-F01156-04R]

LGA1156C

0]
1]
2]
3]
4]
5]

1

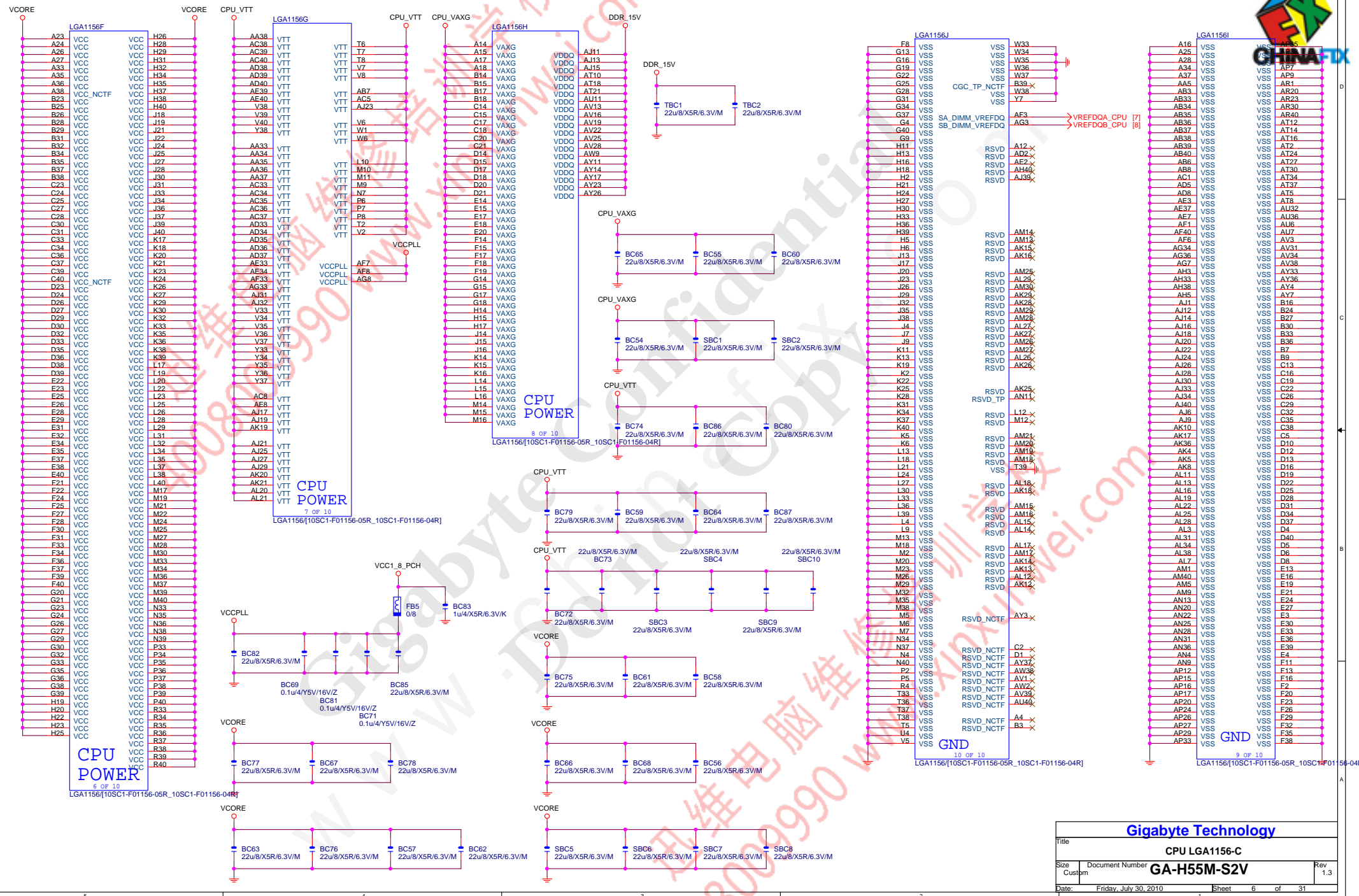
3 OF 10 [Check Tr](#)
LGA1156/[10SC1-F01156-05R_10SC1-F01156-04R]

Check Trace length/ width

Gigabyte Technology

Title			
CPU LGA1156-A			
Size	Document Number	Rev	
Custom	GA-H55M-S2V	1.3	
Date:	Friday, July 30, 2010	Sheet	4 of 31

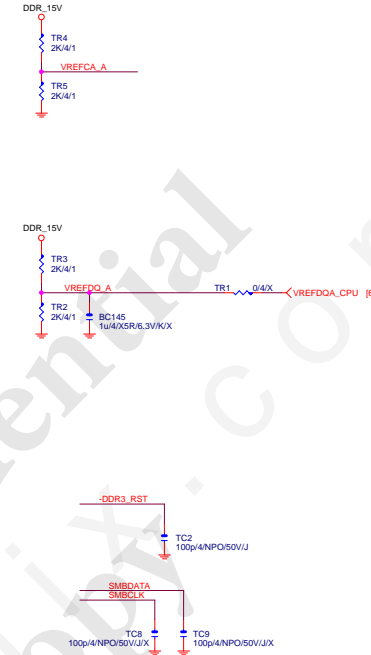
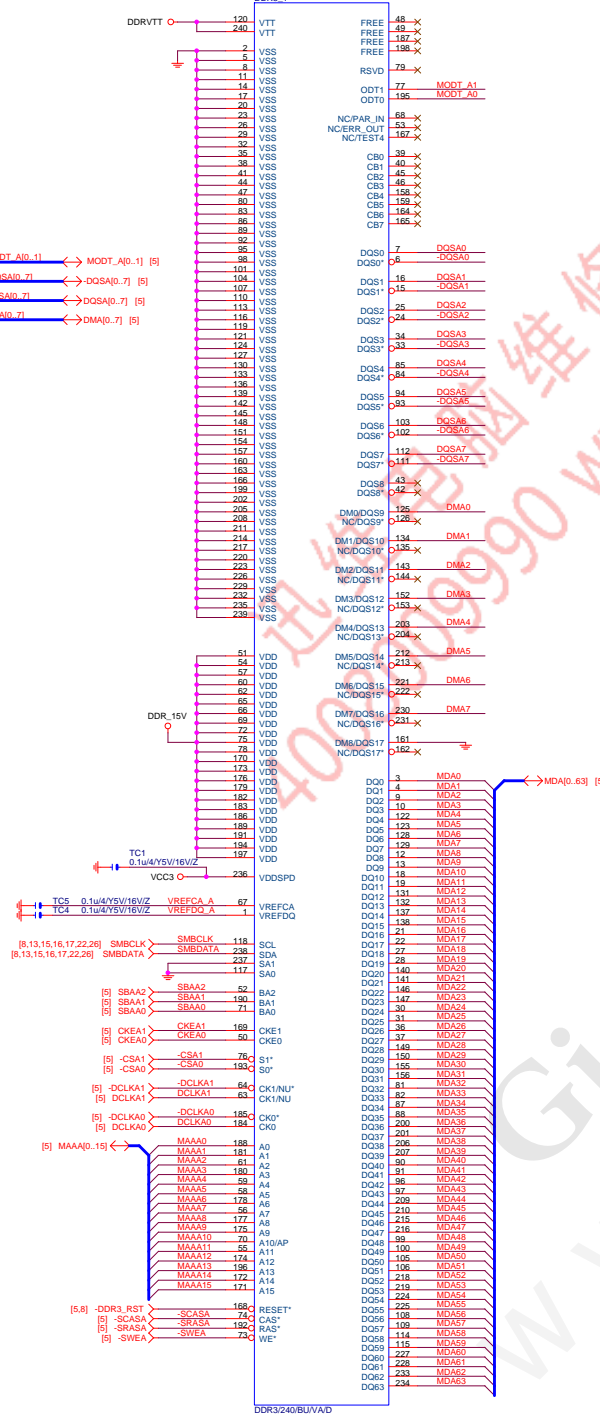
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MAAA1	AY15	SA_MA[1]	SA_DSQ[1]
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MAAA3	AU15	SA_MA[3]	SA_DSQ[3]
MAAA4	AW14	SA_MA[4]	SA_DSQ[4]
MAAA5	AY13	SA_MA[5]	SA_DSQ[5]
MAAA6	AV14	SA_MA[6]	SA_DSQ[6]
MAAA7	AU14	SA_MA[7]	SA_DSQ[7]
MAAA8	AW13	SA_MA[8]	SA_DSQ[8]
MAAA9	AY12	SA_MA[9]	SA_DSQ[9]
MAAA10	AV12	SA_MA[10]	SA_DSQ[10]
MAAA11	AU13	SA_MA[11]	SA_DSQ[11]
MAAA12	AW11	SA_MA[12]	SA_DSQ[12]
MAAA13	AY11	SA_MA[13]	SA_DSQ[13]
MAAA14	AV11	SA_MA[14]	SA_DSQ[14]
MAAA15	AR10	SA_MA[15]	SA_DSQ[15]
[7] -SWEA	AT22	SA_WE#	SA_DSQ[16]
[7] -SCASA	AU22	SA_CAS#	SA_DSQ[17]
[7] -SRASA	AT20	SA_RAS#	SA_DSQ[18]
[7] SBAA0	AV20	SA_BS[0]	SA_DSQ[19]
[7] SBAA1	AU19	SA_BS[1]	SA_DSQ[20]
[7] SBAA2	AU12	SA_BS[2]	SA_DSQ[21]
[7] -CSA0	AV21	SA_CS#0	SA_DSQ[22]
[7] -CSA1	AW24	SA_CS#1	SA_DSQ[23]
[7] -CSA1	AU21	SA_CS#2	SA_DSQ[24]
[7] -CSA1	AU23	SA_CS#3	SA_DSQ[25]
[7] CKEA0	AU10	SA_CKE[0]	SA_DSQ[26]
[7] CKEA1	AW10	SA_CKE[1]	SA_DSQ[27]
[7] CKEA1	AV10	SA_CKE[2]	SA_DSQ[28]
[7] CKEA1	AY10	SA_CKE[3]	SA_DSQ[29]
MODT_A0	AV23	SA_ODT[0]	SA_DSQ[30]
MODT_A1	AV24	SA_ODT[1]	SA_DSQ[31]
MODT_A1	AW23	SA_ODT[2]	SA_DSQ[32]
MODT_A1	AY24	SA_ODT[3]	SA_DSQ[33]
[7] DCLKA0	AR22	SA_CK[0]	SA_DSQ[34]
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[7] -DCLKA1	AN18	SA_CK[2]	SA_DSQ[37]
[7] -DCLKA1	AN21	SA_CK#1	SA_DSQ[38]
[7] -DCLKA1	AP21	SA_CK[2]	SA_DSQ[39]
[7] -DCLKA1	AP19	SA_CK[3]	SA_DSQ[40]
[7] -DCLKA1	AN19	SA_CK#3	SA_DSQ[41]
[7,8] -DDR3_RST	AV8	SM_DRAMRST#	SA_DSQ[42]
AK22	SA_CS#4	SA_DSQ[43]	SA_DSQ[44]
AM22	SA_CS#5	SA_DSQ[45]	SA_DSQ[46]
AL23	SA_CS#6	SA_DSQ[47]	SA_DSQ[48]
AK23	SA_CS#7	SA_DSQ[49]	SA_DSQ[50]
AL10	SA_DSQ[51]	SA_DSQ[52]	SA_DSQ[53]
AM10	SA_DSQ[54]	SA_DSQ[55]	SA_DSQ[56]
AN10	SA_ECC_CB[0]	SA_DSQ[57]	SA_DSQ[58]
AR11	SA_ECC_CB[1]	SA_DSQ[59]	SA_DSQ[60]
AP11	SA_ECC_CB[2]	SA_DSQ[61]	SA_DSQ[62]
AK9	SA_ECC_CB[3]	SA_DSQ[63]	SA_DSQ[64]
AL9	SA_ECC_CB[4]	SA_DSQ[65]	SA_DSQ[66]
AK11	SA_ECC_CB[5]	SA_DSQ[67]	SA_DSQ[68]
AM11	SA_ECC_CB[6]	SA_DSQ[69]	SA_DSQ[70]
AK11	SA_ECC_CB[7]	SA_DSQ[71]	SA_DSQ[72]
AK27	SA_DSQ[73]	SA_DSQ[74]	SA_DSQ[75]
AM27	SA_DSQ[76]	SA_DSQ[77]	SA_DSQ[78]
AL28	SA_DSQ[79]	SA_DSQ[80]	SA_DSQ[81]
AK28	SA_DSQ[82]	SA_DSQ[83]	SA_DSQ[84]
AM28	SA_DSQ[85]	SA_DSQ[86]	SA_DSQ[87]
AL29	SA_DSQ[88]	SA_DSQ[89]	SA_DSQ[90]
AK29	SA_DSQ[91]	SA_DSQ[92]	SA_DSQ[93]
AM29	SA_DSQ[94]	SA_DSQ[95]	SA_DSQ[96]
AL30	SA_DSQ[97]	SA_DSQ[98]	SA_DSQ[99]
AK30	SA_DSQ[100]	SA_DSQ[101]	SA_DSQ[102]
AM30	SA_DSQ[103]	SA_DSQ[104]	SA_DSQ[105]
AL31	SA_DSQ[106]	SA_DSQ[107]	SA_DSQ[108]
AK31	SA_DSQ[109]	SA_DSQ[110]	SA_DSQ[111]
AM31	SA_DSQ[112]	SA_DSQ[113]	SA_DSQ[114]
AL32	SA_DSQ[115]	SA_DSQ[116]	SA_DSQ[117]
AK32	SA_DSQ[118]	SA_DSQ[119]	SA_DSQ[120]
AM32	SA_DSQ[121]	SA_DSQ[122]	SA_DSQ[123]
AL33	SA_DSQ[124]	SA_DSQ[125]	SA_DSQ[126]
AK33	SA_DSQ[127]	SA_DSQ[128]	SA_DSQ[129]
AM33	SA_DSQ[130]	SA_DSQ[131]	SA_DSQ[132]
AL34	SA_DSQ[133]	SA_DSQ[134]	SA_DSQ[135]
AK34	SA_DSQ[136]	SA_DSQ[137]	SA_DSQ[138]
AM34	SA_DSQ[139]	SA_DSQ[140]	SA_DSQ[141]
AL35	SA_DSQ[142]	SA_DSQ[143]	SA_DSQ[144]
AK35	SA_DSQ[145]	SA_DSQ[146]	SA_DSQ[147]
AM35	SA_DSQ[148]	SA_DSQ[149]	SA_DSQ[150]
AL36	SA_DSQ[151]	SA_DSQ[152]	SA_DSQ[153]
AK36	SA_DSQ[154]	SA_DSQ[155]	SA_DSQ[156]
AM36	SA_DSQ[157]	SA_DSQ[158]	SA_DSQ[159]
AL37	SA_DSQ[160]	SA_DSQ[161]	SA_DSQ[162]
AK37	SA_DSQ[163]	SA_DSQ[164]	SA_DSQ[165]
AM37	SA_DSQ[166]	SA_DSQ[167]	SA_DSQ[168]
AL38	SA_DSQ[169]	SA_DSQ[170]	SA_DSQ[171]
AK38	SA_DSQ[172]	SA_DSQ[173]	SA_DSQ[174]
AM38	SA_DSQ[175]	SA_DSQ[176]	SA_DSQ[177]
AL39	SA_DSQ[178]	SA_DSQ[179]	SA_DSQ[180]
AK39	SA_DSQ[181]	SA_DSQ[182]	SA_DSQ[183]
AM39	SA_DSQ[184]	SA_DSQ[185]	SA_DSQ[186]
AL40	SA_DSQ[187]	SA_DSQ[188]	SA_DSQ[189]
AK40	SA_DSQ[190]	SA_DSQ[191]	SA_DSQ[192]
AM40	SA_DSQ[193]	SA_DSQ[194]	SA_DSQ[195]
AL41	SA_DSQ[196]	SA_DSQ[197]	SA_DSQ[198]
AK41	SA_DSQ[199]	SA_DSQ[200]	SA_DSQ[201]
AM41	SA_DSQ[202]	SA_DSQ[203]	SA_DSQ[204]
AL42	SA_DSQ[205]	SA_DSQ[206]	SA_DSQ[207]
AK42	SA_DSQ[208]	SA_DSQ[209]	SA_DSQ[210]
AM42	SA_DSQ[211]	SA_DSQ[212]	SA_DSQ[213]
AL43	SA_DSQ[214]	SA_DSQ[215]	SA_DSQ[216]
AK43	SA_DSQ[217]	SA_DSQ[218]	SA_DSQ[219]
AM43	SA_DSQ[220]	SA_DSQ[221]	SA_DSQ[222]
AL44	SA_DSQ[223]	SA_DSQ[224]	SA_DSQ[225]
AK44	SA_DSQ[226]	SA_DSQ[227]	SA_DSQ[228]
AM44	SA_DSQ[229]	SA_DSQ[230]	SA_DSQ[231]
AL45	SA_DSQ[232]	SA_DSQ[233]	SA_DSQ[234]
AK45	SA_DSQ[235]	SA_DSQ[236]	SA_DSQ[237]
AM45	SA_DSQ[238]	SA_DSQ[239]	SA_DSQ[240]
AL46	SA_DSQ[241]	SA_DSQ[242]	SA_DSQ[243]
AK46	SA_DSQ[244]	SA_DSQ[245]	SA_DSQ[246]
AM46	SA_DSQ[247]	SA_DSQ[248]	SA_DSQ[249]
AL47	SA_DSQ[250]	SA_DSQ[251]	SA_DSQ[252]
AK47	SA_DSQ[253]	SA_DSQ[254]	SA_DSQ[255]
AM47	SA_DSQ[256]	SA_DSQ[257]	SA_DSQ[258]
AL48	SA_DSQ[259]	SA_DSQ[260]	SA_DSQ[261]
AK48	SA_DSQ[262]	SA_DSQ[263]	SA_DSQ[264]
AM48	SA_DSQ[265]	SA_DSQ[266]	SA_DSQ[267]
AL49	SA_DSQ[268]	SA_DSQ[269]	SA_DSQ[270]
AK49	SA_DSQ[271]	SA_DSQ[272]	SA_DSQ[273]
AM49	SA_DSQ[274]	SA_DSQ[275]	SA_DSQ[276]
AL50	SA_DSQ[277]	SA_DSQ[278]	SA_DSQ[279]
AK50	SA_DSQ[280]	SA_DSQ[281]	SA_DSQ[282]
AM50	SA_DSQ[283]	SA_DSQ[284]	SA_DSQ[285]
AL51	SA_DSQ[286]	SA_DSQ[287]	SA_DSQ[288]
AK51	SA_DSQ[289]	SA_DSQ[290]	SA_DSQ[291]
AM51	SA_DSQ[292]	SA_DSQ[293]	SA_DSQ[294]
AL52	SA_DSQ[295]	SA_DSQ[296]	SA_DSQ[297]
AK52	SA_DSQ[298]	SA_DSQ[299]	SA_DSQ[300]
AM52	SA_DSQ[301]	SA_DSQ[302]	SA_DSQ[303]
AL53	SA_DSQ[304]	SA_DSQ[305]	SA_DSQ[306]
AK53	SA_DSQ[307]	SA_DSQ[308]	SA_DSQ[309]
AM53	SA_DSQ[310]	SA_DSQ[311]	SA_DSQ[312]
AL54	SA_DSQ[313]	SA_DSQ[314]	SA_DSQ[315]
AK54	SA_DSQ[316]	SA_DSQ[317]	SA_DSQ[318]
AM54	SA_DSQ[319]	SA_DSQ[320]	SA_DSQ[321]
AL55	SA_DSQ[322]	SA_DSQ[323]	SA_DSQ[324]
AK55	SA_DSQ[325]	SA_DSQ[326]	SA_DSQ[327]
AM55	SA_DSQ[328]	SA_DSQ[329]	SA_DSQ[330]
AL56	SA_DSQ[331]	SA_DSQ[332]	SA_DSQ[333]
AK56	SA_DSQ[334]	SA_DSQ[335]	SA_DSQ[336]
AM56	SA_DSQ[337]	SA_DSQ[338]	SA_DSQ[339]
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AK57	SA_DSQ[343]	SA_DSQ[344]	SA_DSQ[345]
AM57	SA_DSQ[346]	SA_DSQ[347]	SA_DSQ[348]
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AK58	SA_DSQ[352]	SA_DSQ[353]	SA_DSQ[354]
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AL59	SA_DSQ[358]	SA_DSQ[359]	SA_DSQ[360]
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AM59	SA_DSQ[364]	SA_DSQ[365]	SA_DSQ[366]
AL60	SA_DSQ[367]	SA_DSQ[368]	SA_DSQ[369]
AK60	SA_DSQ[370]	SA_DSQ[371]	SA_DSQ[372]
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AM61	SA_DSQ[382]	SA_DSQ[383]	SA_DSQ[384]
AL62	SA_DSQ[385]	SA_DSQ[386]	SA_DSQ[387]
AK62	SA_DSQ[388]	SA_DSQ[389]	SA_DSQ[390]
AM62	SA_DSQ[391]	SA_DSQ[392]	SA_DSQ[393]
AL63	SA_DSQ[394]	SA_DSQ[395]	SA_DSQ[396]
AK63	SA_DSQ[397]	SA_DSQ[398]	SA_DSQ[399]
AM63	SA_DSQ[400]	SA_DSQ[401]	SA_DSQ[402]
AL64	SA_DSQ[403]	SA_DSQ[404]	SA_DSQ[405]
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AM64	SA_DSQ[409]	SA_DSQ[410]	SA_DSQ[411]
AL65	SA_DSQ[412]	SA_DSQ[413]	SA_DSQ[414]
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AM65	SA_DSQ[418]	SA_DSQ[419]	SA_DSQ[420]
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AK66	SA_DSQ[424]	SA_DSQ[425]	SA_DSQ[426]
AM66	SA_DSQ[427]	SA_DSQ[428]	SA_DSQ[429]
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AM67	SA_DSQ[436]	SA_DSQ[437]	SA_DSQ[438]
AL68	SA_DSQ[439]	SA_DSQ[440]	SA_DSQ[441]
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AM68	SA_DSQ[445]	SA_DSQ[446]	SA_DSQ[447]
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AM69	SA_DSQ[454]	SA_DSQ[455]	SA_DSQ[456]
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AM70	SA_DSQ[463]	SA_DSQ[464]	SA_DSQ[465]
AL71	SA_DSQ[466]	SA_DSQ[467]	SA_DSQ[468]
AK71	SA_DSQ[469]	SA_DSQ[470]	SA_DSQ[471]
AM71	SA_DSQ[472]	SA_DSQ[473]	SA_DSQ[474]
AL72	SA_DSQ[475]	SA_DSQ[476]	SA_DSQ[477]
AK72	SA_DSQ[478]	SA_DSQ[479]	SA_DSQ[480]
AM72	SA_DSQ[481]	SA_DSQ[482]	SA_DSQ[483]
AL73	SA_DSQ[484]	SA_DSQ[485]	SA_DSQ[486]
AK73	SA_DSQ[487]	SA_DSQ[488]	SA_DSQ[489]
AM73	SA_DSQ[490]	SA_DSQ[491]	SA_DSQ[492]
AL74	SA_DSQ[493]	SA_DSQ[494]	SA_DSQ[495]
AK74	SA_DSQ[496]	SA_DSQ[497]	SA_DSQ[498]
AM74	SA_DSQ[499]	SA_DSQ[500]	SA_DSQ[501]
AL75	SA_DSQ[502]	SA_DSQ[503]	SA_DSQ[504]
AK75	SA_DSQ[505]	SA_DSQ[506]	SA_DSQ[507]
AM75	SA_DSQ[508]	SA_DSQ[509]	SA_DSQ[510]
AL76	SA_DSQ[511]	SA_DSQ[512]	SA_DSQ[513]
AK76	SA_DSQ[514]	SA_DSQ[515]	SA_DSQ[516]
AM76	SA_DSQ[517]	SA_DSQ[518]	SA_DSQ[519]
AL77	SA_DSQ[520]	SA_DSQ[521]	SA_DSQ[522]
AK77	SA_DSQ[523]	SA_DSQ[524]	SA_DSQ[525]
AM77	SA_DSQ[526]	SA_DSQ[527]	SA_DSQ[528]
AL78	SA_DSQ[529]	SA_DSQ[530]	SA_DSQ[531]
AK78	SA_DSQ[532]	SA_DSQ[533]	SA_DSQ[534]
AM78	SA_DSQ[535]	SA_DSQ[536]	SA_DSQ[537]
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AM79	SA_DSQ[544]	SA_DSQ[545]	SA_DSQ[546]
AL80	SA_DSQ[547]	SA_DSQ[548]	SA_DSQ[549]
AK80	SA_DSQ[550]	SA_DSQ[551]	SA_DSQ[552]
AM80	SA_DSQ[553]	SA_DSQ[554]	SA_DSQ[555]
AL81	SA_DSQ[556]	SA_DSQ[557]	SA_DSQ[558]
AK81	SA_DSQ[559]	SA_DSQ[560]	SA_DSQ[561]
AM81	SA_DSQ[562]	SA_DSQ[563]	SA_DSQ[564]
AL82	SA_DSQ[565]	SA_DSQ[566]	SA_DSQ[567]
AK82	SA_DSQ[568]	SA_DSQ[569]	SA_DSQ[570]
AM82	SA_DSQ[571]	SA_DSQ[572]	SA_DSQ[573]
AL83	SA_DSQ[574]	SA_DSQ[575]	SA_DSQ[576]
AK83	SA_DSQ[577]	SA_DSQ[578]	SA_DSQ[579]
AM83	SA_DSQ[580]	SA_DSQ[581]	SA_DSQ[582]
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AK84	SA_DSQ[586]	SA_DSQ[587]	SA_DSQ[588]
AM84	SA_DSQ[589]	SA_DSQ[590]	SA_DSQ[591]
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AM85	SA_DSQ[598]	SA_DSQ[599]	SA_DSQ[600]
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AK86	SA_DSQ[604]	SA_DSQ[605]	SA_DSQ[606]
AM86	SA_DSQ[607]	SA_DSQ[608]	SA_DSQ[609]
AL87	SA_DSQ[610]	SA_DSQ[611]	SA_DSQ[612]
AK87	SA_DSQ[613]	SA_DSQ[614]	SA_DSQ[615]
AM87	SA_DSQ[616]	SA_DSQ[617]	SA_DSQ[618]
AL88	SA_DSQ[619]	SA_DSQ[620]	SA_DSQ[621]
AK88	SA_DSQ[622]	SA_DSQ[623]	SA_DSQ[624]
AM88	SA_DSQ[625]	SA_DSQ[626]	SA_DSQ[627]
AL89	SA_DSQ[628]	SA_DSQ[629]	SA_DSQ[630]
AK89	SA_DSQ[631]	SA_DSQ[632]	SA_DSQ[633]
AM89	SA_DSQ[634]	SA_DSQ[635]	SA_DSQ[636]
AL90	SA_DSQ[637]	SA_DSQ[638]	SA_DSQ[639]
AK90	SA_DSQ[640]	SA_DSQ[641]	SA_DSQ[642]
AM90	SA_DSQ[643]	SA_DSQ[644]	SA_DSQ[645]
AL91	SA_DSQ[646]	SA_DSQ[647]	SA_DSQ[648]
AK91	SA_DSQ[649]	SA_DSQ[650]	SA_DSQ[651]
AM91	SA_DSQ[652]		



Gigabyte Technology

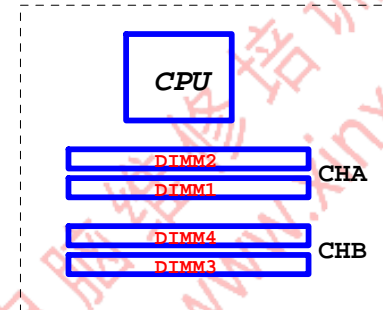
CPU LGA1156-C

Size		Document Number	Rev
Custom		GA-H55M-S2V	1.3
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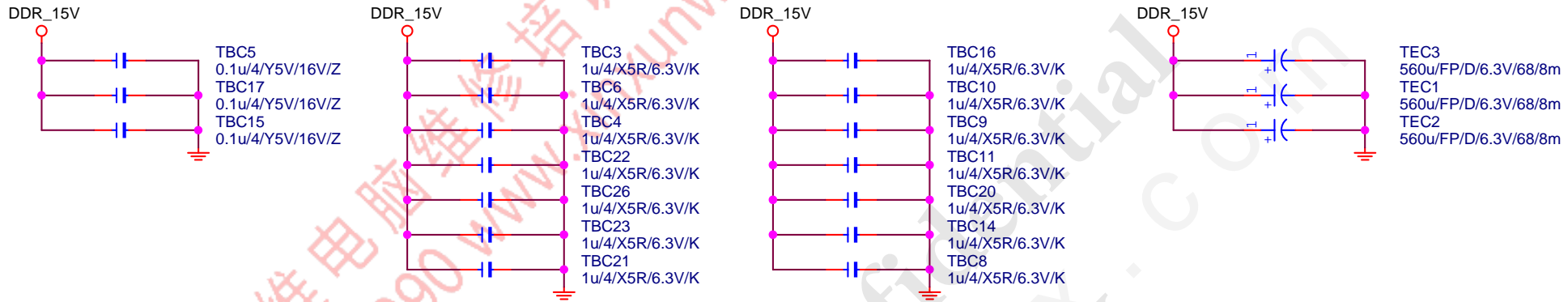
Gigabyte Technology

File	DDR3 CHANNEL A	
Size	Document Number	Rev
Custom	GA-H55M-S2V	1.3
Date	Sheet	7 of 31

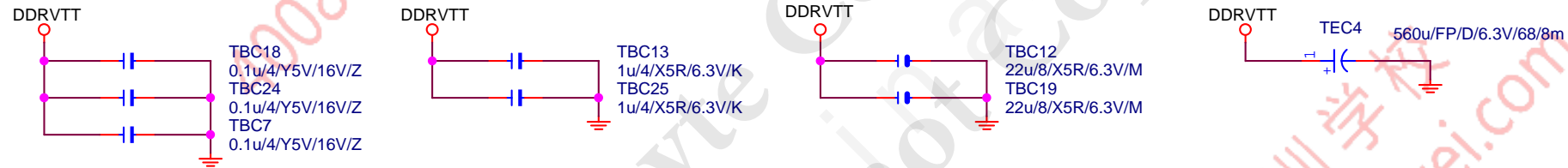


DDR TERMINATION CHANNEL A/B

DDR15V Decouple



DDRVTT Decouple

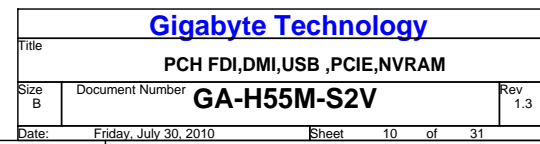


REF VCC層GND, GND層GND要塞孔

REF GND層GND, VCC層GND要塞孔

Gigabyte Technology			
Title			
DDRIII POWER CAP			
Size	Document Number		Rev
A	GA-H55M-S2V		1.3
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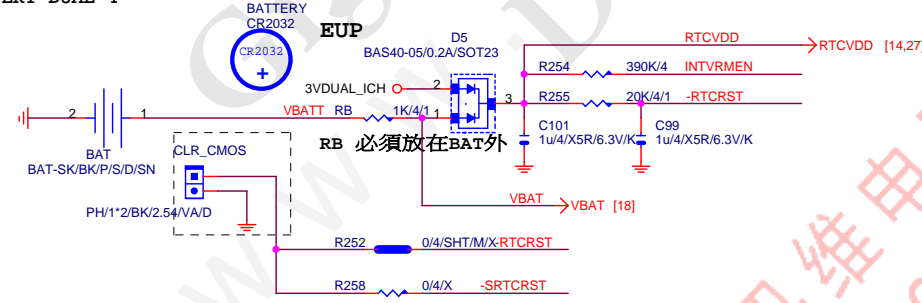
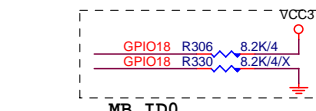
PCHE



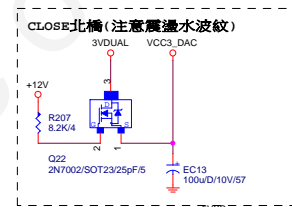


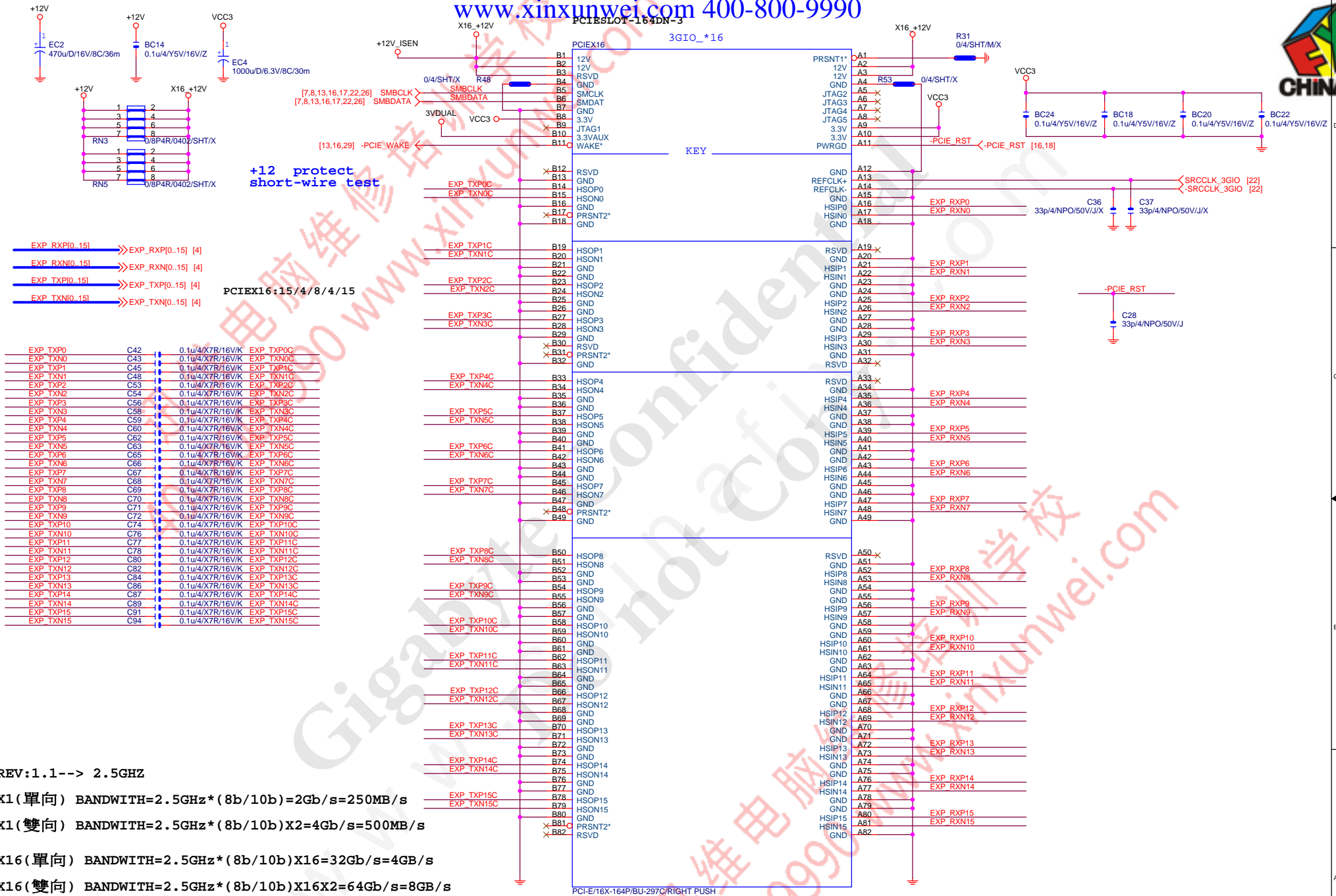


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Gigabyte Technology			
Title PCH GPIO , CTRL , AUDIO			
Size B	Document Number GA-H55M-S2V		Rev 1.3
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PCI-E REV:1.1--> 2.5GHZ

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

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

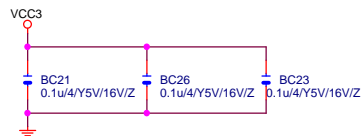
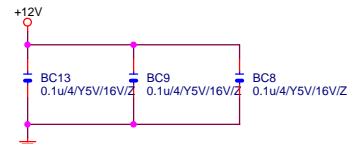
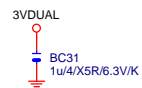
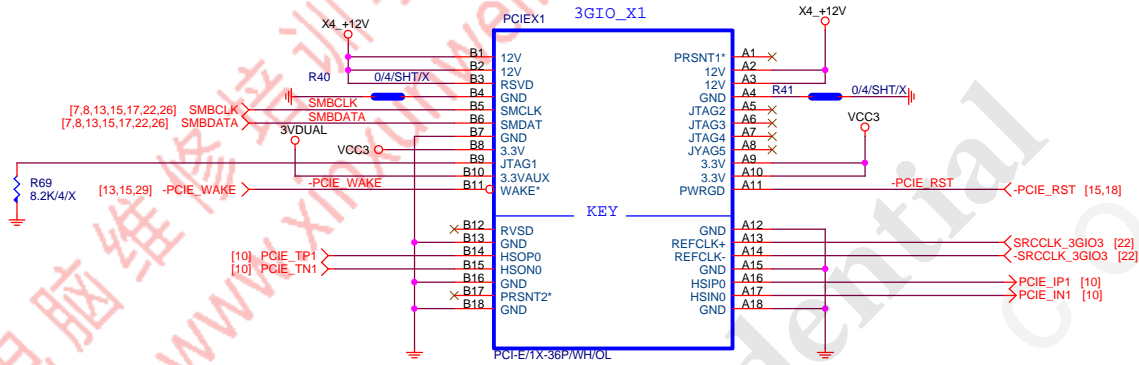
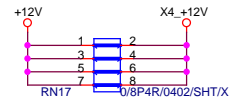
PCE-E X16(單向) BANDWITH=2.5GHz*(8b/10b)X16=32Gb/s=4GB/s

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

PCI-E REV:2.0--> 5GHZ

Gigabyte Technology

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Gigabyte Technology

Title

PCI EXPRESS X 1 PORT

Size

Document Number

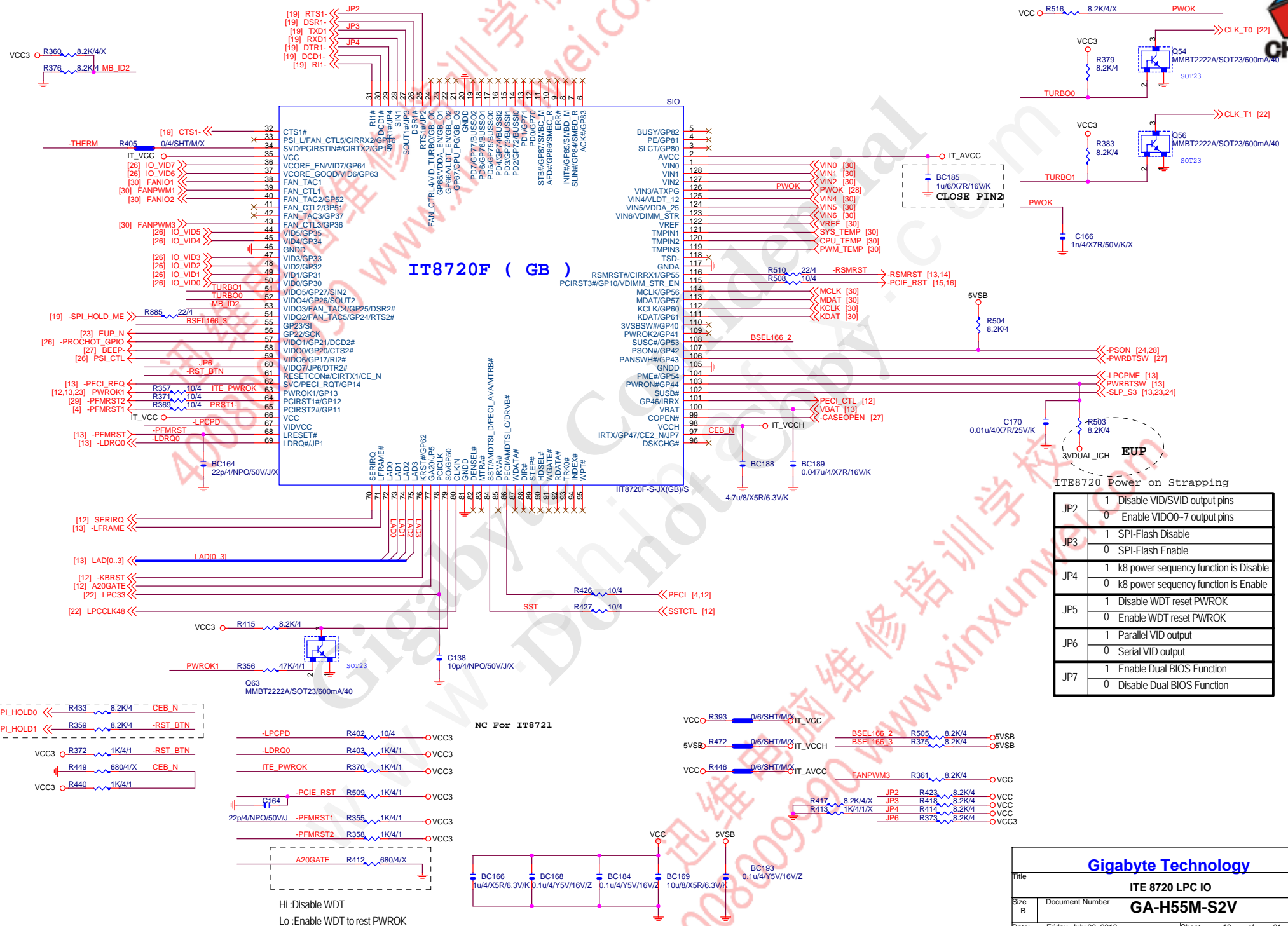
GA-H55M-S2V

Rev

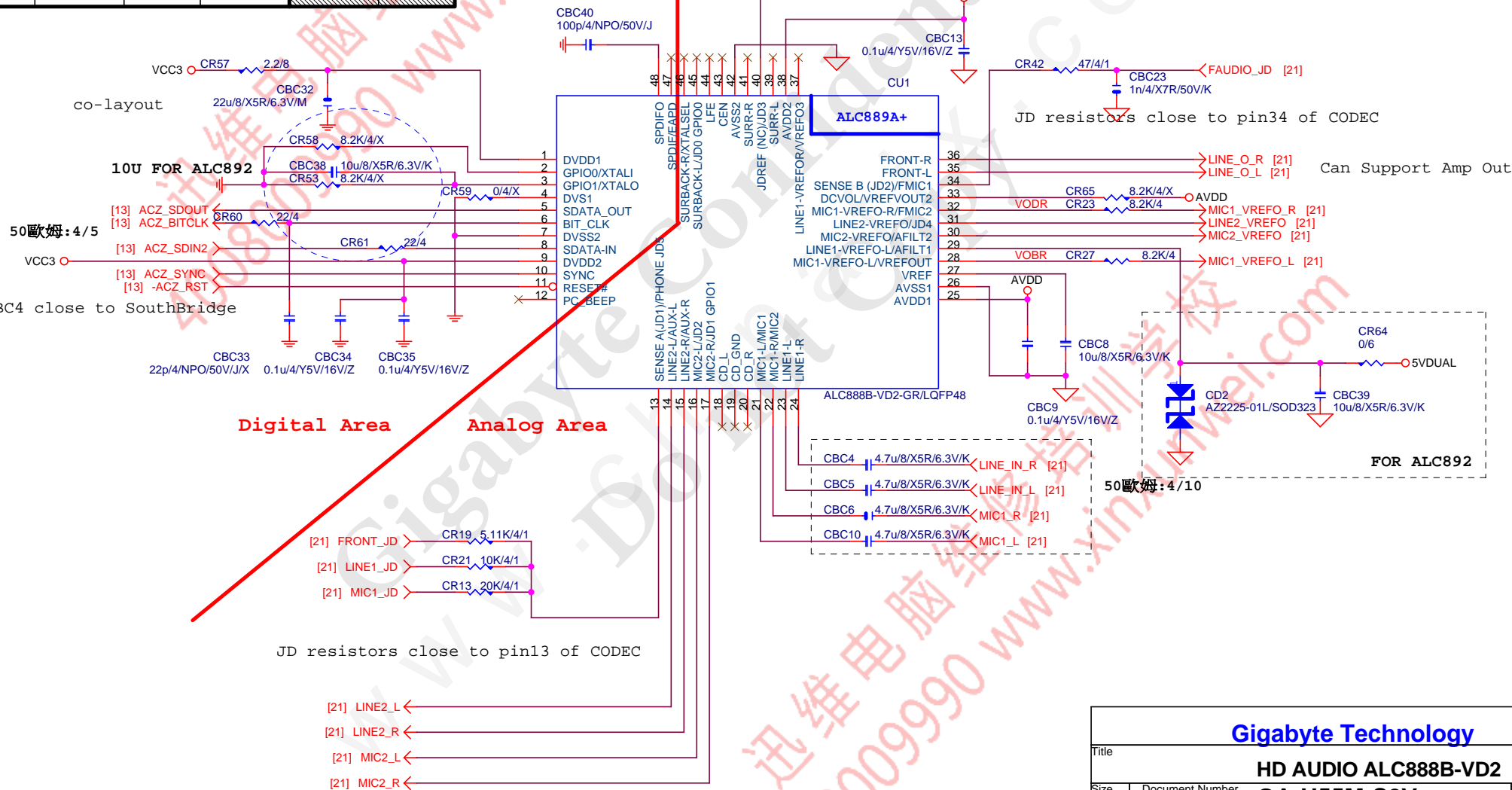
1.3

Date: Friday, July 30, 2010

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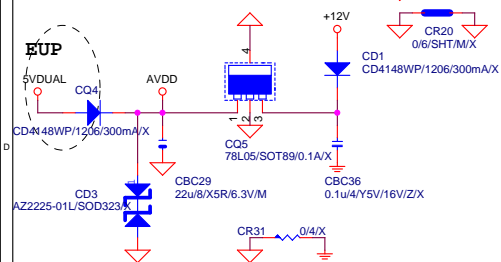


	ALC888B	ALC888 -VA	ALC889A	ALC888 -VD	ALC892
CR59	X	O	O	O	O
CR53,58	X	X	O	X	X
CR56	O	O	O	O	X
CR63	X	X	X	X	O
CR34	20K/1%	20K/1%	20K/0.1%	20K/1%	20K/1%

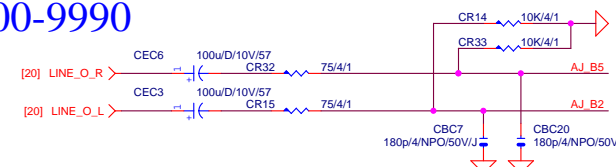


Can Support Amp Out

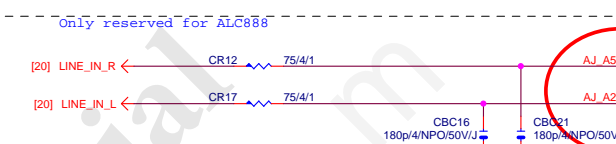
CODEC POWER/EMI PAD



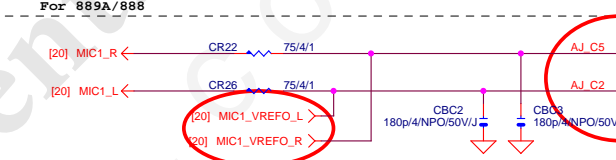
LINE-OUT



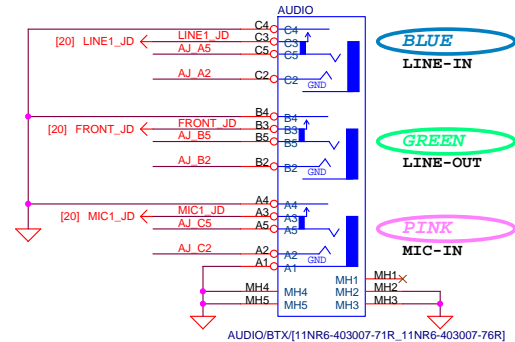
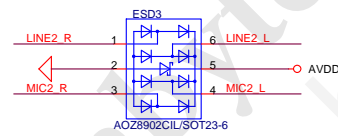
LINE-IN



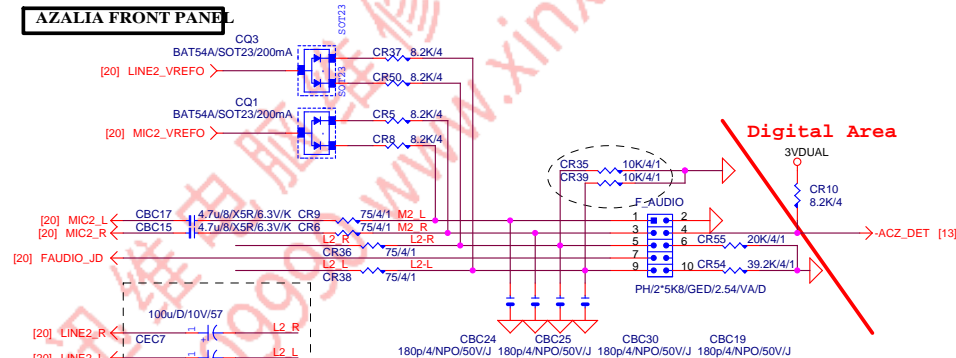
MIC-IN



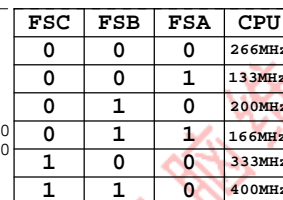
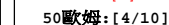
AZALIA JACK



AZALIA FRONT PANEL

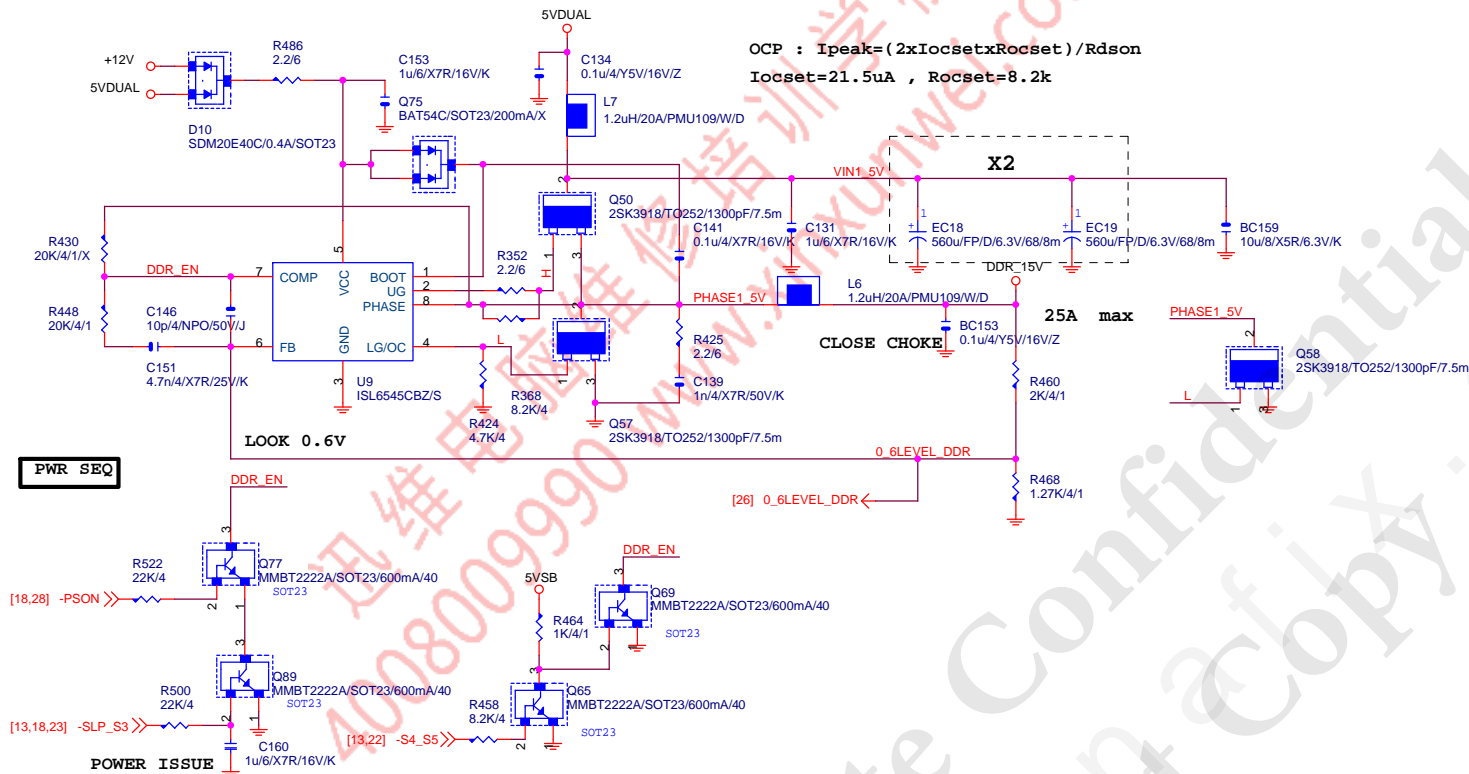


Gigabyte Technology			
AUDIO JACK			
GA-H55M-S2V			
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Custom		1.3	
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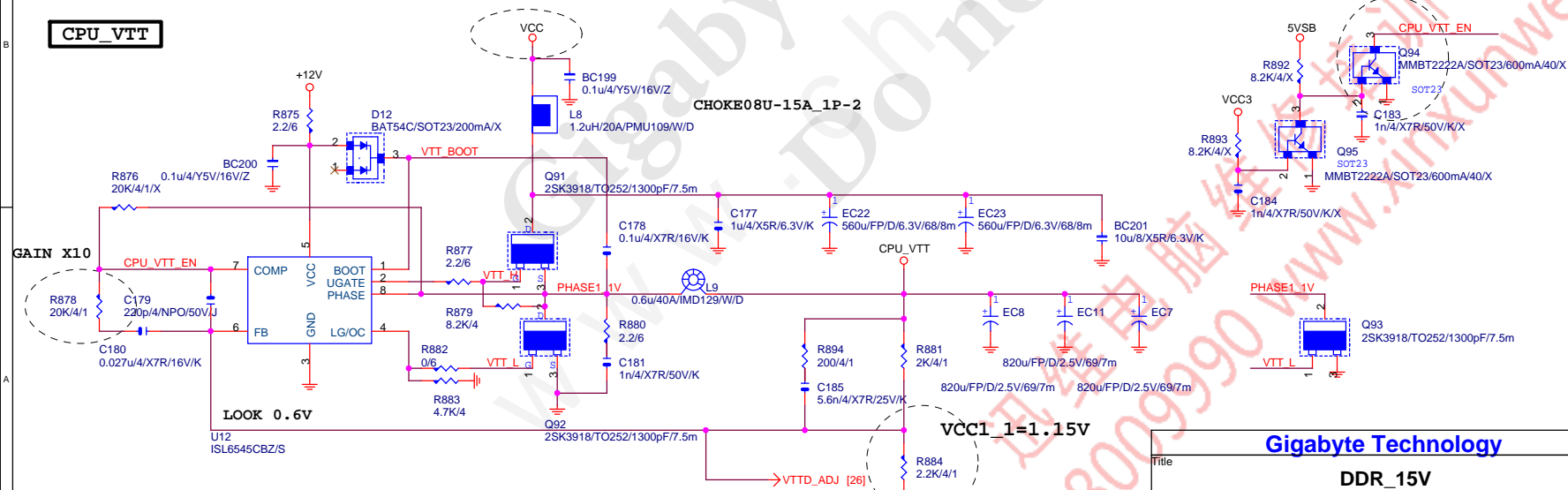


Title			
CK505 CLK GEN			
Size	Document Number		Rev
Custom	GA-H55M-S2V		1.3
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DDR1_5V

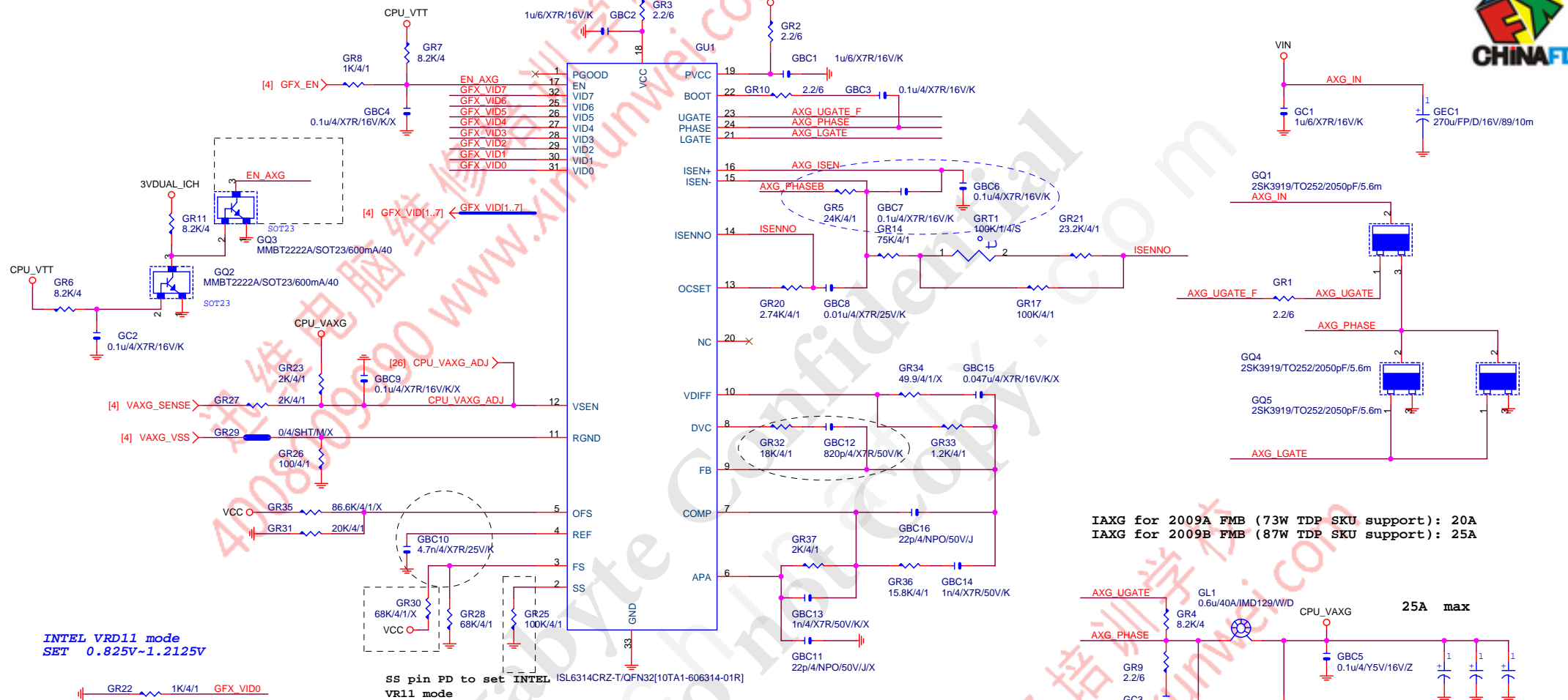


CPU_VTT



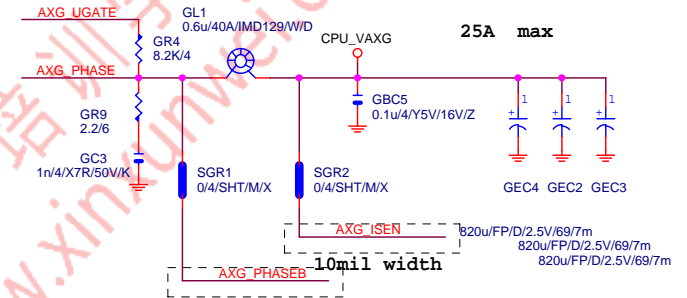
Gigabyte Technology

Title			DDR_15V
Document Number			GA-H55M-S2V
Size	Custpm	Rev	1.3
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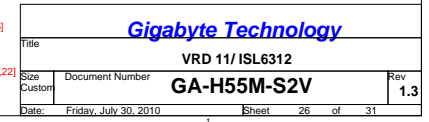
OCP點做在49A
 $R_{ocset}=R_{136}=2.74k$, $I_{sens}=94\mu A$, $R_s=R_{127}=8.25k$,
 $R_{comp}=R_{128}+[R_{135}/(DRT1+R_{129})]=78k$, $DCR=0.78mohm$
 $I_{ocp}=(R_{ocset}*I_{sens}*R_s)/(R_{comp}*DCR)$
 $=(2.74k*94\mu A*8.25k)/(78k*0.78m)=49A$
 $R_t=10^{10.61-[1.035Xlog(FS)]}$ $R_t=R_{151}=68kohm$, $FS=380KHz$
 $OVP=VDAC+175mV$

IAXG for 2009A FMB (73W TDP SKU support): 20A
 IAXG for 2009B FMB (87W TDP SKU support): 25A

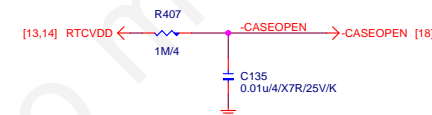
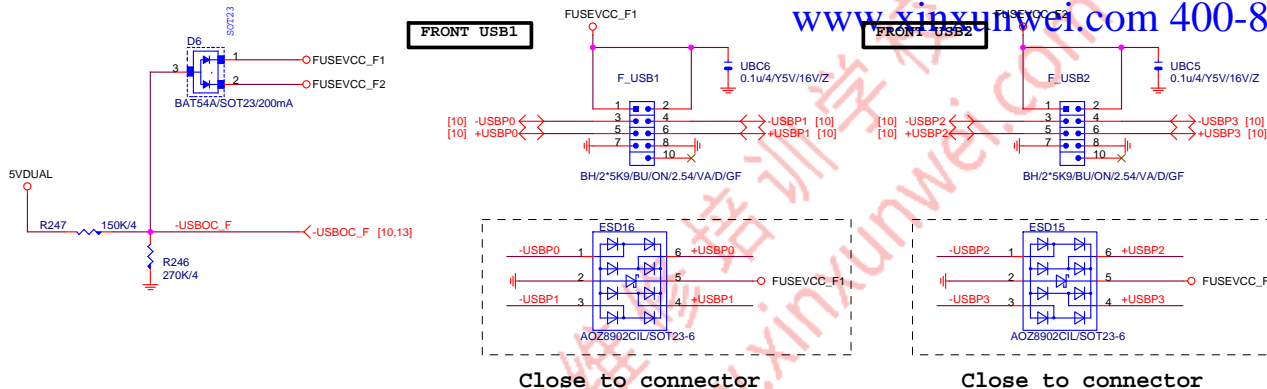


Gigabyte Technology

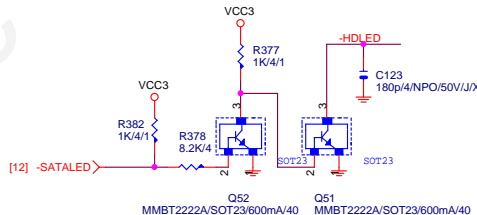
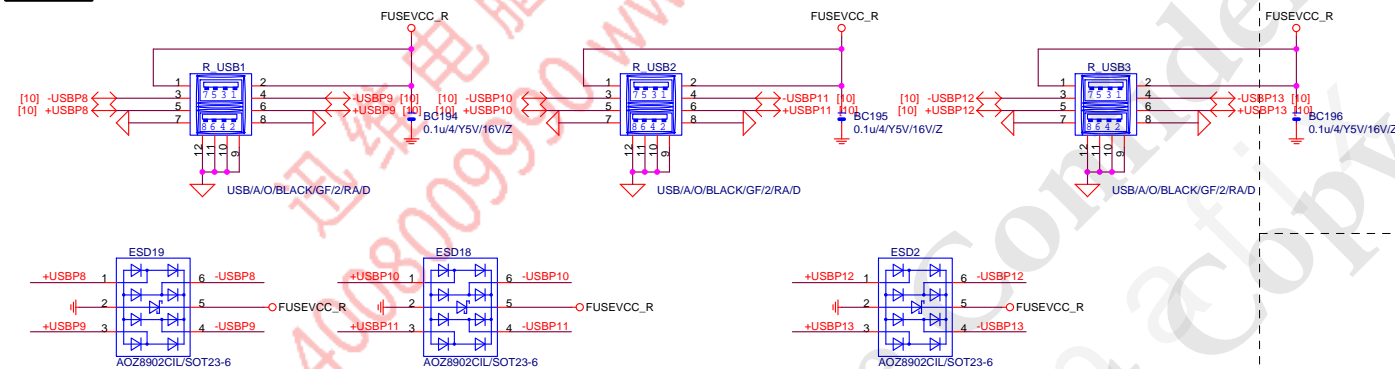
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Size	Document Number	GA-H55M-S2V	
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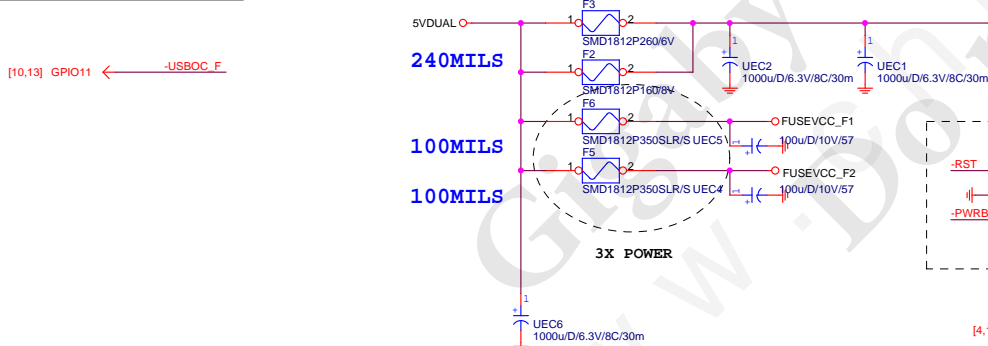
Case Open Circuits



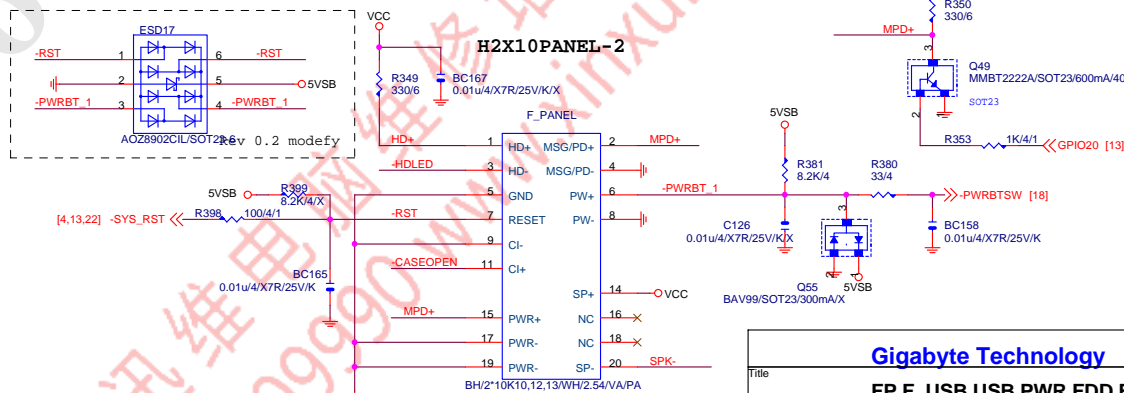
R_USB



F_USB & F_1394 POWER PROTECT

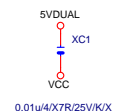


INTEL FRONT PANEL

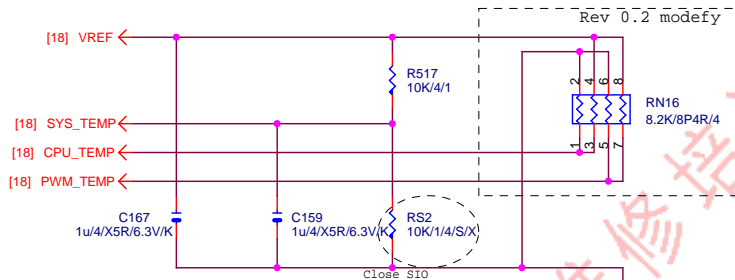


Gigabyte Technology

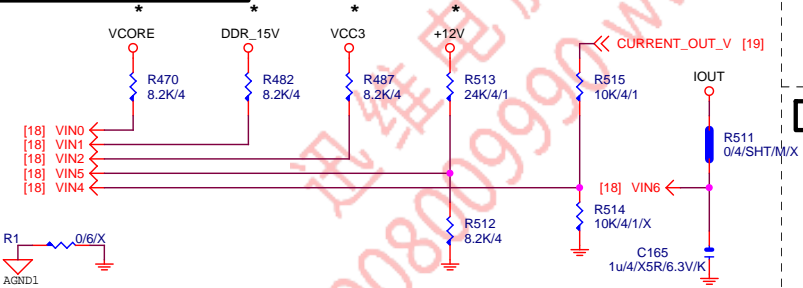
Title			FP,F_USB,USB PWR,FDD,BZ
Size			GA-H55M-S2V
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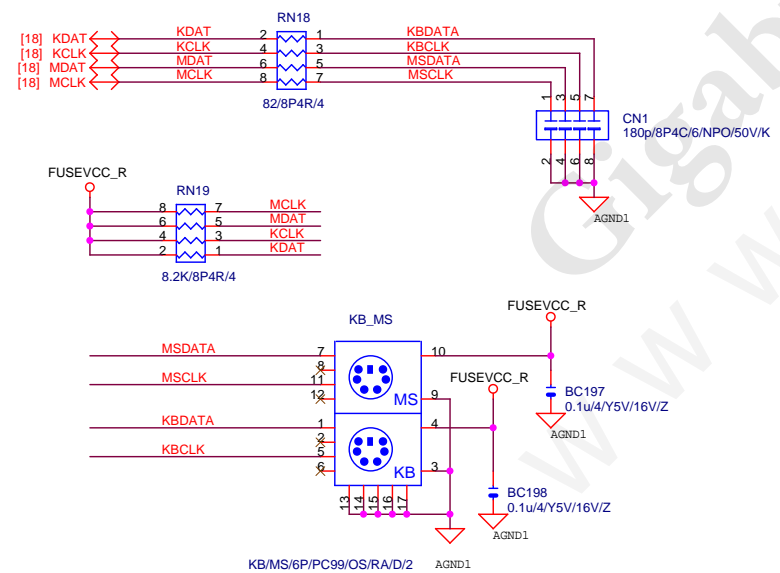
TEMP H/W MONITOR



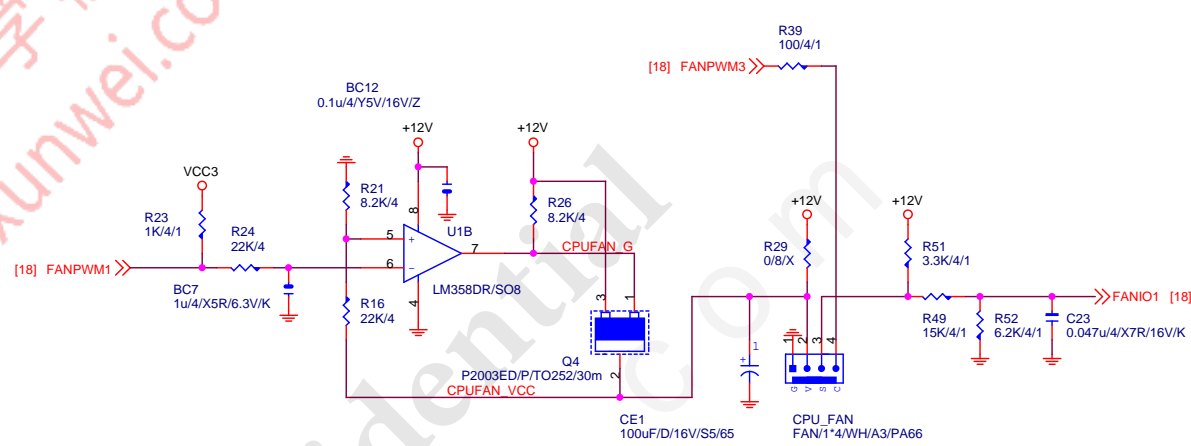
VOLTAGE-- H/W MONITOR



KB/MS



CPU SMART FAN



SYS SMART FAN

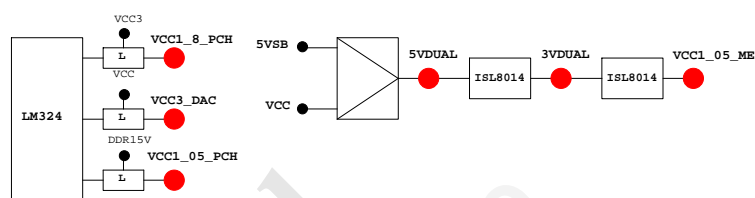


Gigabyte Technology			
Title	HWM,KB/MS, FAN CTRL		
Size	Document Number	GA-H55M-S2V	
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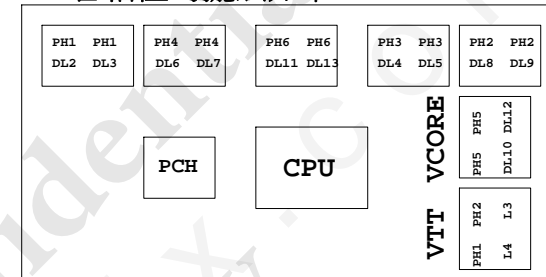


PIN NAME	USAGE	NOTE
SVC/PECI_RQT/GP14	-PECI_REQ	
PWR0K1/GP13	PWR0K1/ITE_PWR0K	
KRST#/GP62	-KBRST	
SO/GP50	-ICH_SPI_CS	
IRTX/GP47/CE2_N/JP7	CEB_N	
GP46/IRRX	-LAN2_DSM	
PSION#/GP42	-PSON	
PWR0K2#/GP41	PECI_CTL	
PCIRST3#/GP10/VDIMM_STR_EN	-PCIE_RST	
RSMRST#CIRRXL/GP55	-RSMRST	
PME#/GP54	-LPCPME	
PD5/GP75/BUSS00	N/A	

PIN NAME	USAGE	NOTE
FAN_TAC2/GP52	FANIO2	
FAN_TAC3/GP37	FANIO3	
VIDO3/FAN_TAC4/GP25/DSR2#	FANIO4	
FAN_CTL2/GP51	FANPWM2	
FAN_CTL3/GP36	FANPWM3	
VID4/GP34	BEEP-	
VID3/GP33	TURBO1	
VID2/GP32	TURBO0	
VCORE_GOOD/VID6/GP63	CPUT_LED1_C	
VID5/GP35	CPUT_LED2_C	
VID1/GP31	CPUT_LED3_C	
VID0/GP30	-LAN1_DSM	NBT_LED1_C
SLCT/GP80	CPU_LED1_C	
PE/GP81	CPU_LED2_C	
BUSY/GP82	CPU_LED3_C	
PD3/GP73/BUSSI1	SB_LED1_C	
PD4/GP74/BUSSI2	SB_LED2_C	
VCORE_EN/VID7/GP64	IT_GP64	SB_LED3_C
PD0/GP70	NB_LED1_C	
PD1/GP71	NB_LED2_C	
PD2/GP72/BUSSI0	NB_LED3_C	
GP22/SCK	LOW_PWR_1	
VIDO5/GP27/SIN2	LOW_PWR_2	
PCIRST2#/GP11	-PFMRST1	
PCIRST1#/GP12	-PFMRST2	
3VBSW#/GP40	CSI_F0	BSEL166_1
SUSC#/GP53	CSI_F1	BSEL166_2
GP23/SI	BSEL166_3/CSISBSL	
VIDO0/GP20/CTS2#	CPUT_LED1_C	BSEL166_4
GP65/VDDA_EN/GB_01	MB_ID2	
PD6/GP76/BUSSO1	MB_ID3	
PD7/GP77/BUSSO2	MB_ID4	
AFD#/GP86/SMBC_R	ZE_PIN	FST_2X8
INIT#/GP85/SMBD_M	SEC_2x8	GT1REF_AD2
ACK#/GP83	DDR_LED1_C	
VIDO1/GP21/DCD2#	DDR_LED2_C	
STB#/GP87/SMBC_M	DDR_LED3_C	
PWRON#GP44	VCORE_OV1	
PANSWH#/GP43	PWRBT5W	
KDAT/GP61	-PWRBT5W	
KCLK/GP60	KDAT	
MDAT/GP57	KCLK	
MACL/GP56	MDAT	
GP66/VLDT_EN/GB_02	NBT_LED1_C	MCLK
SVD/PCIRSTIN#/CIRTX/GP15	PWM2_CR	
KDAT/GP61	PWM2_CR	
GP67/CPU_PG/GB_03	EN_LOADLINE	IT_GP67/-EN_PWM2
SLIN#/GP84/SMBD_R	-EN_PWM2	
PSI_L/FAN_CTL5/CIRRX2/GP16	-THERM	
VIDO4/GP26/SOUT2	DDR18V_PH2_EN	
VIDO2/FAN_TACS/GP24/DSR2#	DDR18V_LED	
VIDO6/GP17/RI2#	1_1V_PH_EN	
VIDO7/JP6/DTR2#	JP6	
PD5/GP75/BUSSO0	SB_LED3_C	



PWM各相位的擺法如下：



BIOS超電壓對應表：

散熱模組料號：

8IBP:
1.12SP2-01A001-Y1R/Y2R
2.12SP2-01A001-Z1R/Z2R
(HIBRID模組)包材階

線路圖名稱	BIOS選項
Vcore	CPU Vcore
CPU_VTT	CPU Termination
CPU_VAXG	CPU Graphic Core
VCC1_8_PCH	CPU PLL
VCC1_05_PCH	PCH core
3VDUAL	3VDUAL
DDR15V	DRAM voltage
DRDVRTT	DRAM Terminatio
VREF_CA_A/VREF_CA_B	DRAM Address Ref.
VREF_DQ_A/VREF_DQ_B	DRAM Data Ref

	3 pin FAN control	4 pin FAN control	FAN speed	Controller
CPU FAN	FANPWM1	FANPWM3	FANIO1	IT8720
	ICH_FAN_PWM2	ICH_FAN_PWM0	ICH_FAN_TACH0	PCH
SYS FAN	FANPWM2	N/A	FANIO2	IT8720
	ICH_FAN_PWM1	N/A	ICH_FAN_TACH1	PCH
PWR FAN	N/A	N/A	FANIO3	IT8720
			ICH_FAN_TACH2	PCH

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TABLE LIST			
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