

Model Name: GA-Z270N-WIFI

SHEET

TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA1151-A
05	CPU_LGA1151-B-DDR4
06	CPU_LGA1151-C
07	CPU_LGA1150-D
08	DDR4 CHANNEL A
09	DDR4 CHANNEL B
10	PCH_CLK BUFFER
11	PCH_DMI,USB,PCIE
12	PCH_MISC
13	PCH SATA,PCIE,SATA_EXPRESS
14	PCH PWR
15	PCH GND
16	ITE 8686 LPC IO
17	HWM
18	FAN CTRL--SIO
19	PCI EXPRESS*16 SLOT
20	PCI EXPRESS*4 & *1 SLOT
21	
22	DUAL BIOS
23	
24	
25	
26	
27	ISL95858 PWM-IRON
28	ISL95858 VCORE-IRON

SHEET

TITLE

29	ISL95858 VCCGT-IRON
30	VCCSA_VCCIO_VCCPLL
31	RT8237_DDR_BEAD
32	RT8068A_VPP
33	RT8237_PCH-BEAD
34	DISCRETE POWER
35	NCT3933
36	ATX POWER , A_-PROCHOT
37	KB_MS_USB
38	DVI CONN
39	RTD2168 - DP to VGA - IC
40	RTD2168 - DP to VGA - Conn
41	HDMI
42	REALTEK 8111G
43	USB30_LAN CONNECTOR-8111G
44	Realtek ALC887
45	REAR AUDIO JACK
46	ADUIO LED
47	F_USB30
48	F_USB
49	R_USB30
50	F_PANEL
51	M.2 X4 (Q)
52	M.2X4_S5 SWITCH
53	COM, LPT, TPM
54	EMI-ESD
55	POWER MAP
56	NTC MAP

Gigabyte Technology

Title			Cover Sheet
Size	Document Number	GA-Z270N-WIFI	
Custom			Rev 1.0
Date	Thursday, November 17, 2016	Sheet	1 of 56

rev1.0

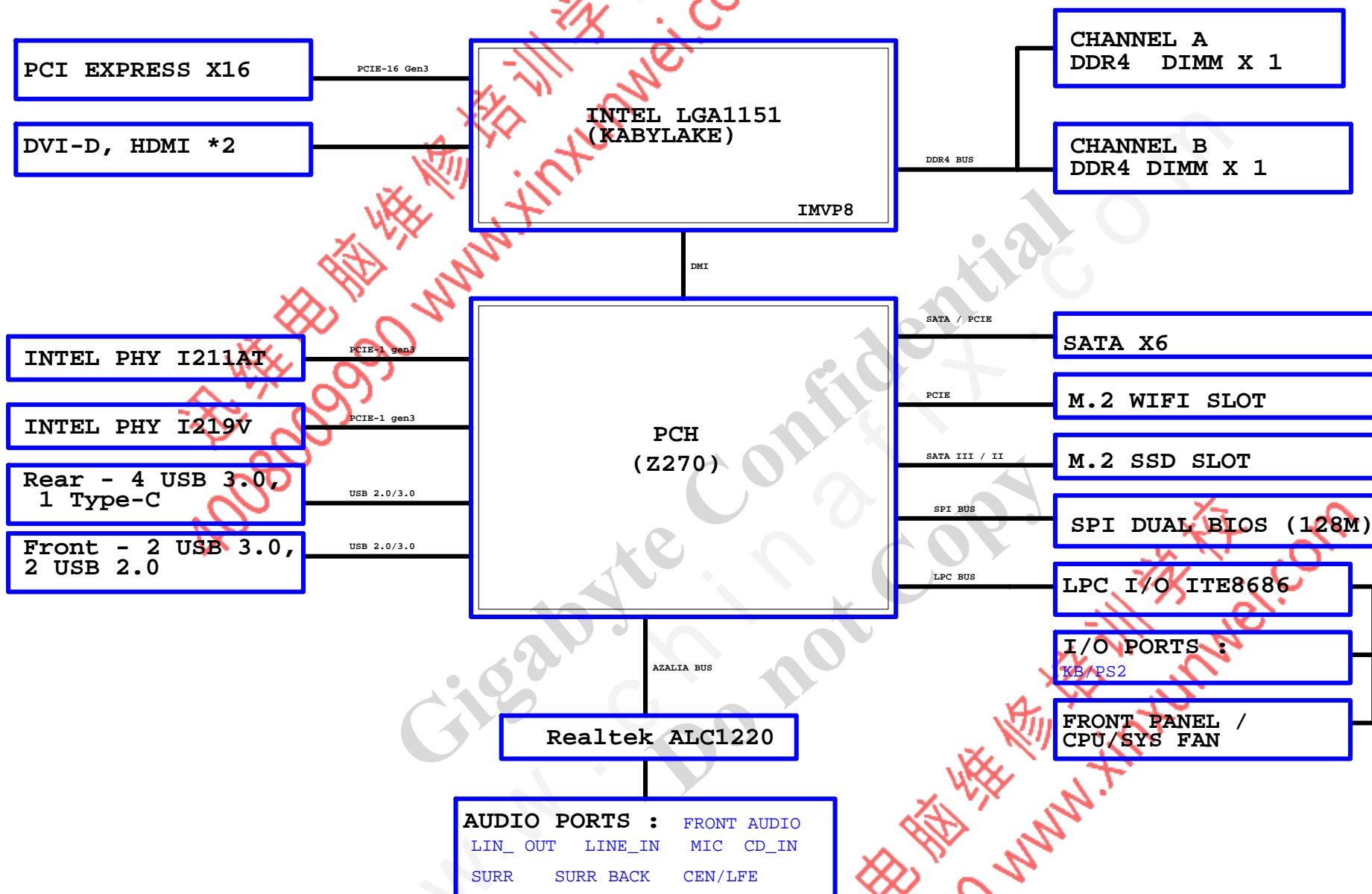
CHINA FDX

2016/10/26

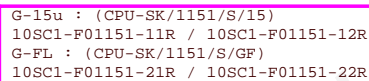
[illegible]

BLOCK DIAGRAM

www.xinxunwei.com 400-800-9990



LGA1151E SKT_H4



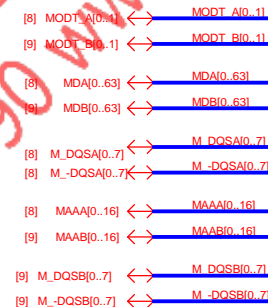
Impedance=85 +- 15%

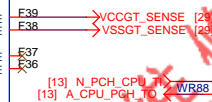
Bifurcation Config.	Signals	Lanes
	CFG[6]	CFG[5] CFG[2]
1x16	1	1
1x16 Reversed	1	1 0
2x8	1	0 1
2x8 Reversed	1	0 0
1x8+2x4	0	0 1
1x8+2x4 Reversed	0	0 0

Impedance=85 +- 15%

W=12 mil out of CPU
S=15 mil out of CPU

<i>Gigabyte Technology</i>			
Title CPU LGA1151-A			
Size Custom	Document Number GA-Z270N-WIFI		Rev 1.0
Date:	Thursday, November 17, 2016	Sheet 4 of 56	





VCORE	LGA1151I SKT_H4	VCORE
LGA1151		
A25	VCC_A25	VCC_H32
A26	VCC_A26	VCC_J21
A27	VCC_A27	VCC_F32
A28	VCC_A28	VCC_F33
A29	VCC_A29	VCC_F34
A30	VCC_A30	VCC_G24
B25	VCC_B25	VCC_G25
B27	VCC_B27	VCC_G26
B29	VCC_B29	VCC_G27
B31	VCC_B31	VCC_G28
B32	VCC_B32	VCC_G29
B33	VCC_B33	VCC_J22
B34	VCC_B34	VCC_J23
B35	VCC_B35	VCC_J24
B36	VCC_B36	VCC_J25
B37	VCC_B37	VCC_J26
C25	VCC_C25	VCC_J27
C26	VCC_C26	VCC_J28
C27	VCC_C27	VCC_J29
C28	VCC_C28	VCC_J30
C29	VCC_C29	VCC_J31
C30	VCC_C30	VCC_K16
C32	VCC_C32	VCC_K18
C34	VCC_C34	VCC_K20
C36	VCC_C36	VCC_K21
D25	VCC_D25	VCC_K23
D27	VCC_D27	VCC_K25
D29	VCC_D29	VCC_K27
D31	VCC_D31	VCC_K29
D32	VCC_D32	VCC_K31
D33	VCC_D33	VCC_L14
D34	VCC_D34	VCC_L15
D35	VCC_D35	VCC_L16
D36	VCC_D36	VCC_L17
E24	VCC_E24	VCC_L18
E25	VCC_E25	VCC_L19
E26	VCC_E26	VCC_L20
E27	VCC_E27	VCC_L21
E28	VCC_E28	VCC_L22
E29	VCC_E29	VCC_L23
E30	VCC_E30	VCC_L24
E32	VCC_E32	VCC_L25
E34	VCC_E34	VCC_L26
F36	VCC_F36	VCC_L27
F23	VCC_F23	VCC_L28
F24	VCC_F24	VCC_L29
F25	VCC_F25	VCC_L30
F27	VCC_F27	VCC_M13
F29	VCC_F29	VCC_M14
F31	VCC_F31	VCC_M16
G30	VCC_G30	VCC_M18
G32	VCC_G32	VCC_M20
H22	VCC_H22	VCC_M22
H23	VCC_H23	VCC_M24
H25	VCC_H25	VCC_M26
H27	VCC_H27	VCC_M28
H29	VCC_H29	VCC_M30
H31	VCC_H31	VCC_AJ12
AJ11	VCC_AJ11	VCC_AJ14
AJ13	VCC_AJ13	VCC_AJ16
AJ15	VCC_AJ15	VCC_AJ18
AJ17	VCC_AJ17	VCC_AJ20
AJ19	VCC_AJ19	VCC_AJ22
AJ21	VCC_AJ21	VCC_AJ24
	VCC_SENSE	VCC_SENSE

9 OF 12

CPU-SK/1151/S/15

* 刪 Vcore 電容

LGA1151F SKT_H4	LGA1151
A11	VSS
A13	VSS
A15	VSS
A17	VSS
A24	VSS
A27	VSS
A33	VSS
AA33	VSS
AA8	VSS
AB39	VSS
AB5	VSS
AC3	VSS
AC33	VSS
AC34	VSS
AC65	VSS
AD1	VSS
AD33	VSS
AD36	VSS
AD37	VSS
AD38	VSS
AD39	VSS
AD4	VSS
AD40	VSS
AD6	VSS
AD7	VSS
AD8	VSS
AE3	VSS
AE33	VSS
AE36	VSS
AE5	VSS
AF3	VSS
AF33	VSS
AF36	VSS
AF37	VSS
AF40	VSS
AF5	VSS
AF8	VSS
AG1	VSS
AG2	VSS
AG3	VSS
AG33	VSS
AG36	VSS
AG4	VSS
AG5	VSS
AG8	VSS
AH33	VSS
AH36	VSS
AH37	VSS
AH38	VSS
AH39	VSS
AH40	VSS
AH5	VSS
AH8	VSS
AJ1	VSS
AJ31	VSS
AJ32	VSS
AJ33	VSS
AJ12	VSS
AJ35	VSS
AJ36	VSS
AJ4	VSS
AJ5	VSS
AJ8	VSS
AK10	VSS
AK12	VSS
AK13	VSS
AK15	VSS
AK16	VSS
AK17	VSS
AK18	VSS
AK19	VSS
AK20	VSS
AK23	VSS
AK25	VSS
AK26	VSS
AK28	VSS

6 OF 12

CPU-SK/1151/S/15

LGA1151G SKT_H4	LGA1151
AK29	VSS
AK30	VSS
AK36	VSS
AK37	VSS
AK40	VSS
AK5	VSS
AK6	VSS
AK7	VSS
AK8	VSS
AK9	VSS
AL1	VSS
AL11	VSS
AL14	VSS
AL2	VSS
AL21	VSS
AL24	VSS
AL27	VSS
AL3	VSS
AL30	VSS
AL36	VSS
AL4	VSS
AL5	VSS
AM11	VSS
AM14	VSS
AM17	VSS
AM19	VSS
AM24	VSS
AM27	VSS
AM30	VSS
AM31	VSS
AM32	VSS
AM33	VSS
AM34	VSS
AM35	VSS
AM36	VSS
AM37	VSS
AM38	VSS
AM39	VSS
AM40	VSS
AM5	VSS
AN1	VSS
AN10	VSS
AN11	VSS
AN14	VSS
AN16	VSS
AN19	VSS
AN22	VSS
AN23	VSS
AN24	VSS
AN27	VSS
AN30	VSS
AN36	VSS
AN4	VSS
AN5	VSS
AN6	VSS
AN7	VSS
AN8	VSS
AN9	VSS
AP11	VSS
AP14	VSS
AP24	VSS
AP27	VSS
AP30	VSS
AP36	VSS
AP37	VSS
AP40	VSS
AP5	VSS
AR1	VSS
AR11	VSS
AR14	VSS
AR16	VSS
AR17	VSS
AR18	VSS
AR19	VSS
AR2	VSS
AR20	VSS
AR26	VSS
AR21	VSS

7 OF 12

CPU-SK/1151/S/15

LGA1151H SKT_H4	LGA1151
AR24	VSS
AR3	VSS
AR30	VSS
AR31	VSS
AR32	VSS
AR33	VSS
AR34	VSS
AR35	VSS
AR36	VSS
AR4	VSS
AR5	VSS
AT10	VSS
AT11	VSS
AT12	VSS
AT13	VSS
AT14	VSS
AT17	VSS
AT24	VSS
AT25	VSS
AT26	VSS
AT27	VSS
AT28	VSS
AT29	VSS
AT30	VSS
AT31	VSS
AT32	VSS
AT34	VSS
AT36	VSS
AT37	VSS
AT38	VSS
AT39	VSS
AT40	VSS
AT5	VSS
AT6	VSS
AT7	VSS
AT8	VSS
AT9	VSS
AU11	VSS
AU25	VSS
AU30	VSS
AU34	VSS
AU4	VSS
AU5	VSS
AU7	VSS
AV2	VSS
AV26	VSS
AV28	VSS
AV30	VSS
AV34	VSS
AV38	VSS
AV5	VSS
AV9	VSS
AW3	VSS
AW30	VSS
AW32	VSS
AW34	VSS
AW36	VSS
AW5	VSS
AW9	VSS
AY27	VSS
AY30	VSS
AY5	VSS
AY7	VSS
AY9	VSS
B24	VSS
B26	VSS
B28	VSS
B30	VSS
B6	VSS
C12	VSS
C14	VSS
C16	VSS
C18	VSS
C20	VSS
C22	VSS
C24	VSS
C31	VSS
C33	VSS
C35	VSS

LGA1151H SKT_H4	LGA1151
C37	VSS
C5	VSS
C8	VSS
C10	VSS
D24	VSS
D26	VSS
D28	VSS
D30	VSS
D37	VSS
D39	VSS
D7	VSS
E110	VSS
E13	VSS
E15	VSS
E17	VSS
E19	VSS
E21	VSS
E23	VSS
E3	VSS
E31	VSS
E32	VSS
E35	VSS
E37	VSS
E6	VSS
E9	VSS
F1	VSS
F10	VSS
F22	VSS
F26	VSS
F28	VSS
F30	VSS
F4	VSS
F40	VSS
F7	VSS
G11	VSS
G13	VSS
G15	VSS
G17	VSS
G19	VSS
G22	VSS
G3	VSS
G31	VSS
G33	VSS
G6	VSS
H1	VSS
H21	VSS
H24	VSS
H26	VSS
H28	VSS
H30	VSS
H35	VSS
H37	VSS
H39	VSS
H4	VSS
H7	VSS
H9	VSS
J10	VSS
J12	VSS
L11	VSS
J16	VSS
J18	VSS
J20	VSS
J3	VSS
J62	VSS
J84	VSS
J6	VSS
K1	VSS
K14	VSS
K15	VSS
K17	VSS
K19	VSS
K22	VSS
K24	VSS
K26	VSS
K28	VSS
K30	VSS
K33	VSS
K35	VSS
K37	VSS

8 OF 12

CPU-SK/1151/S/15

LGA1151H SKT_H4	LGA1151
K39	VSS
K4	VSS
K7	VSS
L13	VSS
L3	VSS
L32	VSS
L6	VSS
L9	VSS
M1	VSS
M10	VSS
M12	VSS
M15	VSS
M17	VSS
M19	VSS
M21	VSS
M23	VSS
M25	VSS
M27	VSS
M29	VSS
M35	VSS
M37	VSS
M39	VSS
M4	VSS
M7	VSS
N3	VSS
N33	VSS
N6	VSS
N8	VSS
P1	VSS
P3	VSS
P37	VSS
P39	VSS
P4	VSS
R3	VSS
R33	VSS
R6	VSS
R8	VSS
T1	VSS
T35	VSS
T37	VSS
T39	VSS
T4	VSS
U3	VSS
U33	VSS
U6	VSS
V1	VSS
V35	VSS
V37	VSS
V39	VSS
V8	VSS
W3	VSS
W33	VSS
W6	VSS
Y35	VSS
Y37	VSS
Y5	VSS

A4 VSS_NCTF
B38 VSS_NCTF
C2 VSS_NCTF
D40 VSS_NCTF

Gigabyte Technology

Title

CPU LGA1151-C

Size

Document Number

Rev

GA-Z270N-WIFI

1.0

Date:

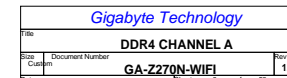
Thursday, November 17, 2016

Sheet

7

of

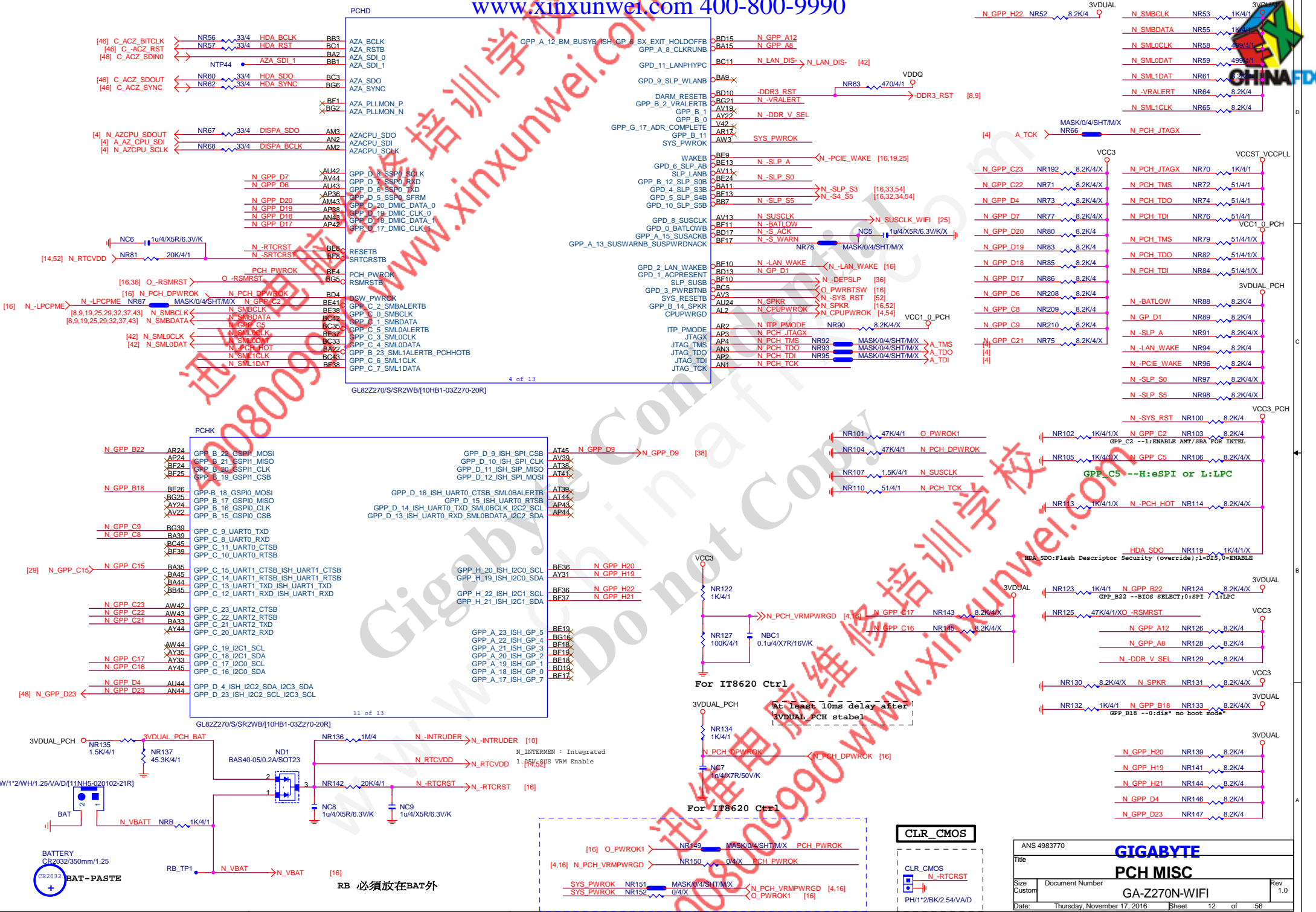
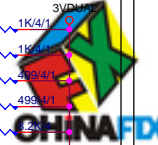
56



* 移除 short
CHANNEL A
SA2:0=000





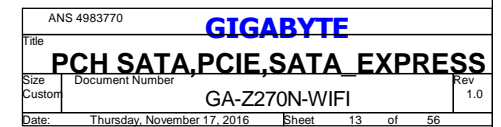


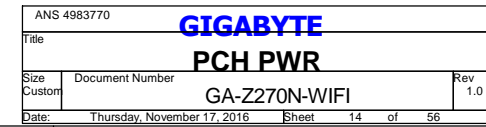
CLR_CMOS

CLR_CMOS

PH1*2/BK2.54/V/A/D

ANS 4983770		GIGABYTE	
Title		PCH MISC	
Size	Document Number	GA-Z270N-WIFI	
Custom		Rev 1.0	
Date:	Thursday, November 17, 2016	Sheet	12 of 56



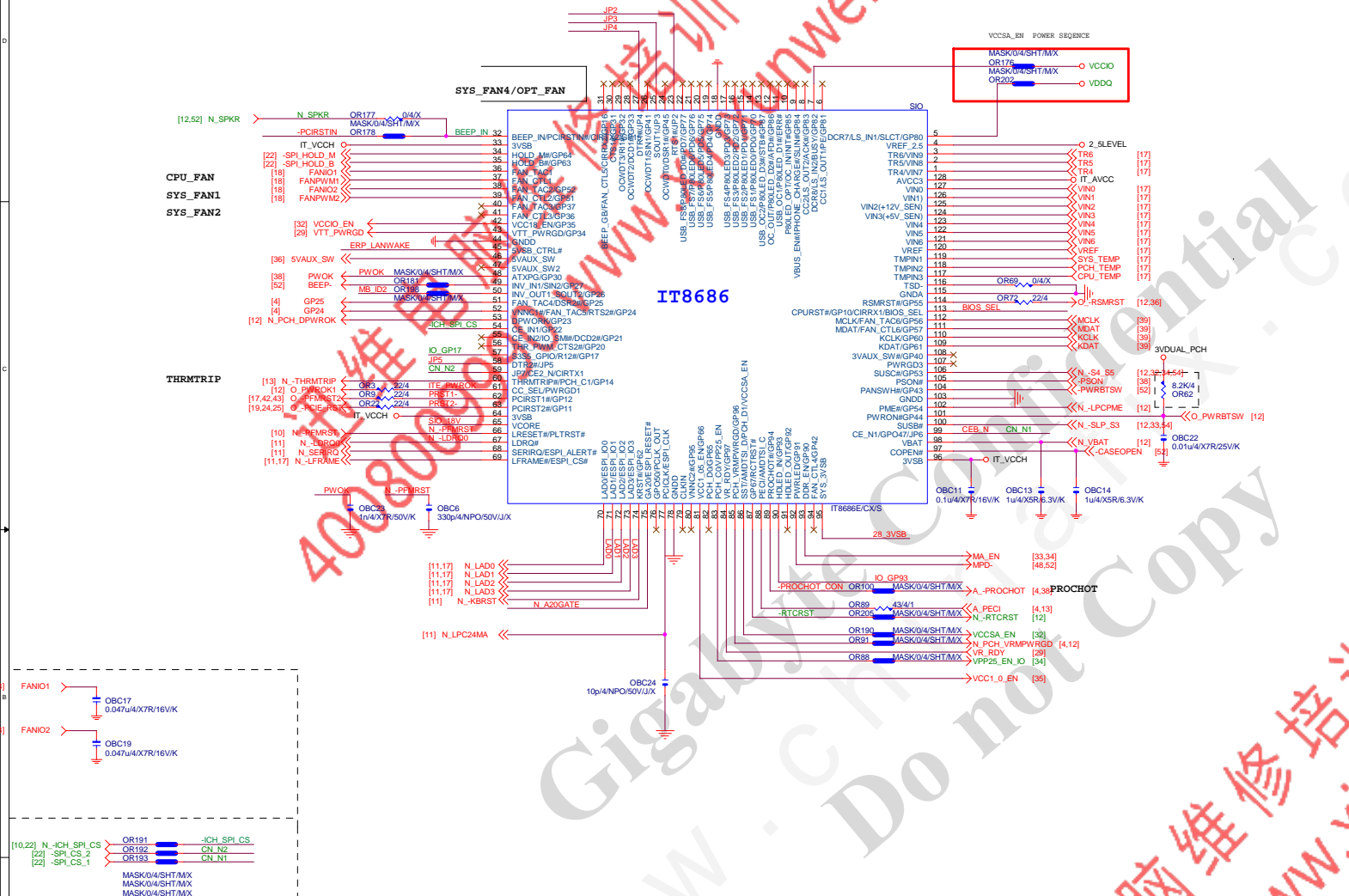


PCHL	
A25	VSS
A30	VSS
P22	VSS
AV38	VSS
AV45	VSS
AV8	VSS
AY11	VSS
AY19	VSS
AY37	VSS
AY4	VSS
AY42	VSS
AY8	VSS
B25	VSS
B3	VSS
B30	VSS
B35	VSS
B4	VSS
B41	VSS
BA13	VSS
BA17	VSS
BA37	VSS
BA29	VSS
BA31	VSS
BA37	VSS
BA4	VSS
BA42	VSS
BB40	VSS
BC38	VSS
BC40	VSS
BC9	VSS
BD11	VSS
BD16	VSS
BD2	VSS
BD21	VSS
BD25	VSS
F2	VSS
F31	VSS
F6	VSS
F8	VSS
F39	VSS
F43	VSS
G4	VSS
G40	VSS
G42	VSS
F6	VSS
G9	VSS
H11	VSS
H19	VSS
H13	VSS
H17	VSS
H22	VSS
H24	VSS
H27	VSS
H29	VSS
H33	VSS
H35	VSS
H38	VSS
H4	VSS
H42	VSS
H9	VSS
J4	VSS
M36	VSS
M38	VSS
M4	VSS
M8	VSS
M9	VSS
N13	VSS
N15	VSS
N19	VSS
N22	VSS
N24	VSS
N31	VSS
N42	VSS
P10	VSS
P12	VSS
AV35	VSS

9 of 13

GL82270/S/SR2WB/[10HB1-03Z270-20R]

PCHL	
BD34	VSS[70]
BD39	VSS[71]
BD7	VSS[72]
BE2	VSS[73]
BF43	VSS[74]
BF2	VSS[75]
BG18	VSS[76]
BG23	VSS[77]
BG28	VSS[78]
BG32	VSS[79]
BG37	VSS[80]
BG40	VSS[81]
BG9	VSS[82]
C1	VSS[83]
A12	VSS[84]
C2	VSS[85]
CA29	VSS[86]
CA7	VSS[87]
CA6	VSS[88]
CA32	VSS[89]
D1	VSS[90]
D10	VSS[91]
D12	VSS[92]
D15	VSS[93]
D16	VSS[94]
D19	VSS[95]
D21	VSS[96]
D24	VSS[97]
D25	VSS[98]
D29	VSS[99]
D30	VSS[100]
D33	VSS[101]
D35	VSS[102]
D36	VSS[103]
D39	VSS[104]
D44	VSS[105]
D7	VSS[106]
P13	VSS[107]
P15	VSS[108]
P17	VSS[109]
P19	VSS[110]
P31	VSS[111]
P33	VSS[112]
P35	VSS[113]
P4	VSS[114]
P42	VSS[115]
P8	VSS[116]
R1	VSS[117]
R32	VSS[118]
T10	VSS[119]
T14	VSS[120]
T22	VSS[121]
T29	VSS[122]
T32	VSS[123]
T36	VSS[124]
T38	VSS[125]
Y38	VSS[126]
Y4	VSS[127]
Y8	VSS[128]
T42	VSS[129]
T5	VSS[130]
U4	VSS[131]
U42	VSS[132]
V10	VSS[133]
V14	VSS[134]
W3	VSS[135]
AR13	VSS[136]
AR31	VSS[137]
AR33	VSS[138]
AR4	VSS[139]
AT10	VSS[140]
AT13	VSS[141]
AT35	VSS[142]
AT37	VSS[143]
AT42	VSS[144]
AU11	VSS[145]
AU17	VSS[146]
BD30	VSS[147]
W45	VSS[148]
Y13	VSS[149]
Y14	VSS[150]
Y30	VSS[151]
Y32	VSS[152]
Y33	VSS[153]
Y33	VSS[154]
Y33	VSS[155]
Y33	VSS[156]
Y33	VSS[157]
Y33	VSS[158]
Y33	VSS[159]
Y33	VSS[160]
Y33	VSS[161]
Y33	VSS[162]
Y33	VSS[163]
Y33	VSS[164]
Y33	VSS[165]
Y33	VSS[166]
Y33	VSS[167]
Y33	VSS[168]
Y33	VSS[169]
Y33	VSS[170]
Y33	VSS[171]
Y33	VSS[172]
Y33	VSS[173]
Y33	VSS[174]
Y33	VSS[175]
Y33	VSS[176]
Y33	VSS[177]
Y33	VSS[178]
Y33	VSS[179]
Y33	VSS[180]
Y33	VSS[181]
Y33	VSS[182]
Y33	VSS[183]
Y33	VSS[184]
Y33	VSS[185]
Y33	VSS[186]
Y33	VSS[187]
Y33	VSS[188]
Y33	VSS[189]
Y33	VSS[190]
Y33	VSS[191]
Y33	VSS[192]
Y33	VSS[193]
Y33	VSS[194]
Y33	VSS[195]
Y33	VSS[196]
Y33	VSS[197]
Y33	VSS[198]
Y33	VSS[199]
Y33	VSS[200]
Y33	VSS[201]
Y33	VSS[202]
Y33	VSS[203]
Y33	VSS[204]
Y33	VSS[205]
Y33	VSS[206]
Y33	VSS[207]
Y33	VSS[208]
Y33	VSS[209]
Y33	VSS[210]
Y33	VSS[211]
Y33	VSS[212]
Y33	VSS[213]
Y33	VSS[214]
Y33	VSS[215]
Y33	VSS[216]
Y33	VSS[217]
Y33	VSS[218]
Y33	VSS[219]
Y33	VSS[220]
Y33	VSS[221]
Y33	VSS[222]
Y33	VSS[223]
Y33	VSS[224]
Y33	VSS[225]
Y33	VSS[226]
Y33	VSS[227]
Y33	VSS[228]
Y33	VSS[229]
Y33	VSS[230]
Y33	VSS[231]
Y33	VSS[232]
Y33	VSS[233]
Y33	VSS[234]
Y33	VSS[235]
Y33	VSS[236]
Y33	VSS[237]
Y33	VSS[238]
Y33	VSS[239]
Y33	VSS[240]
Y33	VSS[241]
Y33	VSS[242]
Y33	VSS[243]
Y33	VSS[244]
Y33	VSS[245]
Y33	VSS[246]
Y33	VSS[247]
Y33	VSS[248]
Y33	VSS[249]
Y33	VSS[250]
Y33	VSS[251]
Y33	VSS[252]
Y33	VSS[253]
Y33	VSS[254]
Y33	VSS[255]
Y33	VSS[256]
Y33	VSS[257]
Y33	VSS[258]
Y33	VSS[259]
Y33	VSS[260]
Y33	VSS[261]
Y33	VSS[262]
Y33	VSS[263]
Y33	VSS[264]
Y33	VSS[265]
Y33	VSS[266]
Y33	VSS[267]
Y33	VSS[268]
Y33	VSS[269]
Y33	VSS[270]
Y33	VSS[271]
Y33	VSS[272]
Y33	VSS[273]
Y33	VSS[274]
Y33	VSS[275]
Y33	VSS[276]
Y33	VSS[277]
Y33	VSS[278]
Y33	VSS[279]
Y33	VSS[280]
Y33	VSS[281]
Y33	VSS[282]
Y33	VSS[283]
Y33	VSS[284]
Y33	VSS[285]
Y33	VSS[286]
Y33	VSS[287]
Y33	VSS[288]
Y33	VSS[289]
Y33	VSS[290]
Y33	VSS[291]
Y33	VSS[292]
Y33	VSS[293]
Y33	VSS[294]
Y33	VSS[295]
Y33	VSS[296]
Y33	VSS[297]
Y33	VSS[298]
Y33	VSS[299]
Y33	VSS[300]
Y33	VSS[301]
Y33	VSS[302]
Y33	VSS[303]
Y33	VSS[304]
Y33	VSS[305]
Y33	VSS[306]
Y33	VSS[307]
Y33	VSS[308]
Y33	VSS[309]
Y33	VSS[310]
Y33	VSS[311]
Y33	VSS[312]
Y33	VSS[313]
Y33	VSS[314]
Y33	VSS[315]
Y33	VSS[316]
Y33	VSS[317]
Y33	VSS[318]
Y33	VSS[319]
Y33	VSS[320]
Y33	VSS[321]
Y33	VSS[322]
Y33	VSS[323]
Y33	VSS[324]
Y33	VSS[325]
Y33	VSS[326]
Y33	VSS[327]
Y33	VSS[328]
Y33	VSS[329]
Y33	VSS[330]
Y33	VSS[331]
Y33	VSS[332]
Y33	VSS[333]
Y33	VSS[334]
Y33	VSS[335]
Y33	VSS[336]
Y33	VSS[337]
Y33	VSS[338]
Y33	VSS[339]
Y33	VSS[340]
Y33	VSS[341]
Y33	VSS[342]
Y33	VSS[343]
Y33	VSS[344]
Y33	VSS[345]
Y33	VSS[346]
Y33	VSS[347]
Y33	VSS[348]
Y33	VSS[349]
Y33	VSS[350]
Y33	VSS[351]
Y33	VSS[352]
Y33	VSS[353]
Y33	VSS[354]
Y33	VSS[355]
Y33	VSS[356]
Y33	VSS[357]
Y33	VSS[358]
Y33	VSS[359]
Y33	VSS[360]
Y33	VSS[361]
Y33	VSS[362]
Y33	VSS[363]
Y33	VSS[364]
Y33	VSS[365]
Y33	VSS[366]
Y33	VSS[367]
Y33	VSS[368]
Y33	VSS[369]
Y33	VSS[370]
Y33	VSS[371]
Y33	VSS[372]
Y33	VSS[373]
Y33	VSS[374]
Y33	VSS[375]
Y33	VSS[376]
Y33	VSS[377]
Y33	VSS[378]
Y33	VSS[379]
Y33	VSS[380]
Y33	VSS[381]
Y33	VSS[382]
Y33	VSS[383]
Y33	VSS[384]
Y33	VSS[385]
Y33	VSS[386]
Y33	VSS[387]
Y33	VSS[388]
Y33	VSS[389]
Y33	VSS[390]
Y33	VSS[391]
Y33	VSS[392]
Y33	VSS[393]
Y33	VSS[394]
Y33	VSS[395]
Y33	VSS[396]
Y33	VSS[397]
Y33	VSS[398]
Y33	VSS[399]
Y33	VSS[400]
Y33	VSS[401]
Y33	VSS[402]
Y33	VSS[403]
Y33	VSS[404]
Y33	VSS[405]
Y33	VSS[406]
Y33	VSS[407]
Y33	VSS[408]
Y33	VSS[409]
Y33	VSS[410]
Y33	VSS[411]
Y33	VSS[412]
Y33	VSS[413]
Y33	VSS[414]
Y33	VSS[415]
Y33	VSS[416]
Y33	VSS[417]
Y33	VSS[418]
Y33	VSS[419]
Y33	VSS[420]
Y33	VSS[421]
Y33	VSS[422]
Y33	VSS[423]
Y33	VSS[424]
Y33	VSS[425]
Y33	VSS[426]
Y33	VSS[427]
Y33	VSS[428]
Y33	VSS[429]
Y33	VSS[430]
Y33	VSS[431]
Y33	VSS[432]
Y33	VSS[433]
Y33	VSS[434]
Y33	VSS[435]
Y33	VSS[436]
Y33	VSS[437]
Y33	VSS[438]
Y33	VSS[439]
Y33	VSS[440]
Y33	VSS[441]
Y33	VSS[442]
Y33	VSS[443]
Y33	VSS[444]
Y33	VSS[445]
Y33	VSS[446]
Y33	VSS[447]
Y33	VSS[448]
Y33	VSS[449]
Y33	VSS[450]
Y33	VSS[451]
Y33	VSS[452]
Y33	VSS[453]
Y33	VSS[454]
Y33	VSS[455]
Y33	VSS[456]
Y33	VSS[457]
Y33	VSS[458]
Y33	VSS[459]
Y33	VSS[460]
Y33	VSS[461]
Y33	VSS[462]
Y33	VSS[463]
Y33	VSS[464]
Y33	VSS[465]
Y33	VSS[466]
Y33	VSS[467]
Y33	VSS[468]
Y33	VSS[469]
Y33	VSS[470]
Y33	VSS[471]
Y33	VSS[472]
Y33	VSS[473]
Y33	VSS[474]
Y33	VSS[475]
Y33	VSS[476]
Y33	VSS[477]
Y33	VSS[478]
Y33	VSS[479]
Y33	VSS[480]
Y33	VSS[481]
Y33	VSS[482]
Y33	VSS[483]
Y33	VSS[484]
Y33	VSS[485]
Y33	VSS[486]
Y33	VSS[487]
Y33	VSS[488]
Y33	VSS[489]
Y33	VSS[490]
Y33	VSS[491]
Y33	VSS[492]
Y33	VSS[493]
Y33	VSS[494]
Y33	VSS[495]
Y33	VSS[496]
Y33	VSS[497]
Y33	VSS[498]
Y33	VSS[499]
Y33	VSS[500]
Y33	VSS[501]
Y33	VSS[502]
Y33	VSS[503]
Y33	VSS[504]
Y33	VSS[505]
Y33	VSS[506]
Y33	VSS[507]
Y33	VSS[508]
Y33	VSS[509]
Y33	VSS[510]
Y33	VSS[511]
Y33	VSS[512]
Y33	VSS[513]
Y33	VSS[514]
Y33	VSS[515]
Y33	VSS[516]
Y33	VSS[517]
Y33	VSS[518]
Y33	VSS[519]
Y33	VSS[520]
Y33	VSS[521]
Y33	VSS[522]
Y33	VSS[523]
Y33	VSS[524]
Y33	VSS[525]
Y33	VSS[526]
Y33	VSS[527]
Y33	VSS[528]
Y33	VSS[529]
Y33	VSS[530]
Y33	VSS[531]
Y33	VSS[532]
Y33	VSS[533]
Y33	VSS[534]
Y33	VSS[535]
Y33	VSS[536]
Y33	VSS[537]
Y33	VSS[538]
Y33	VSS[539]
Y33	VSS[540]
Y33	VSS[541]
Y33	VSS[542]
Y33	VSS[543]
Y33	VSS[544]
Y33	VSS[545]
Y33	VSS[546]
Y33	VSS[547]
Y33	VSS[548]
Y33	VSS[549]
Y33	VSS[550]
Y33	VSS[551]
Y33	VSS[552]
Y33	VSS[553]
Y33	VSS[554]
Y33	VSS[555]
Y33	VSS[556]
Y33	VSS[557]
Y33	VSS[558]
Y33	VSS[559]
Y33	VSS[560]
Y33	VSS[561]
Y33	VSS[562]
Y33	VSS[



FAN TABLE	
CPU_FAN	FAN_CTL1 FAN_TAC1
SYS_FAN1	FAN_CTL2 FAN_TAC2
SYS_FAN2	FAN_CTL3 FAN_TAC3
SYS_FAN3	FAN_CTL4 FAN_TAC4
OPT_FAN or SYS_FAN4	FAN_CTL5 FAN_TAC5
THRMTRIP	PIN56
PROCHOT	PIN89

internal power pin, max 22nF cap

SIO 18V

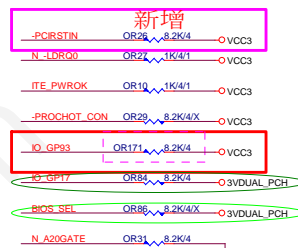
OBC4
0.1uF/4X7R/16V/KX

OBC5
0.1uF/4X7R/16V/KX

CPU 端 A_THRMTRIP 不可與 PCH 及 SIO
N_THRMTRIP 直接連接。
否則會出現無法拉 LOW 情況。

MB ID

SIO	PU
-----	----

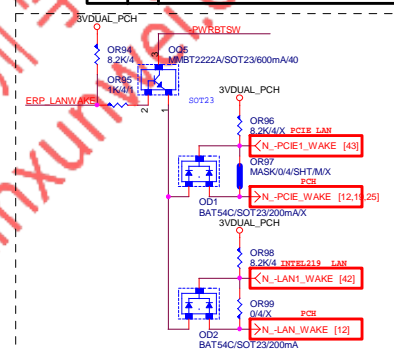


OR33 1K/4/1 JP2 OR36 8.2K/4 ○ VCC
OR31 1K/4/1/X JP3 OR35 8.2K/4/X ○ 3V/D1
OR50 1K/4/1/X JP4 OR34 8.2K/4 ○ 3V/D2
JP5 OR12 8.2K/4 ○ 3V/D3

EUP control detect

3V/D4 ○ OR47 100/4/1 28 3V/SB

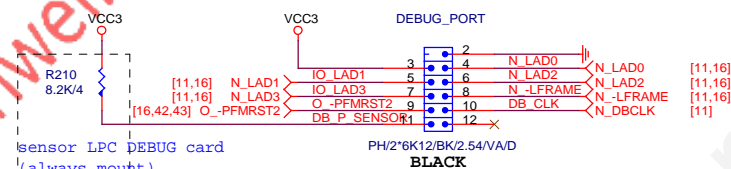
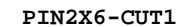
JP2	1	Disable WDT1 to rest PWRCK
	0	Enable WDT1 to rest PWRCK
JP3	1	Dual-BIOS CS pin mode select bit "0"
	0	See the below table
JP4	1	LPC/ESPI power VCCBT = 3.3V
	0	LPC/ESPI power VCCBT = 1.8V
JP5	1	LPC I/F
	0	ESPI I/F
JP6	1	Enable Dual BIOS Function (for GigaByte Only)
	0	Disable Dual BIOS Function (for GigaByte Only)
JP7	1	Dual-BIOS CE pin mode select bit "1"
	0	See the below table
JP7	1 1	CE pin disable (Hold pin mode)
	1 0	CE mode 1
JP3	0 1	CE mode 2
	0 0	CE mode 3



Gigabyte Technology

Title		IT8686		Rev	
Size	Document Number	GA-Z270N-WIFI		Rev	
C				1.	
Date	Thursday, November 12, 2015	Sheet	16	of	16

DEBUG PORT



VREF

OR211
10K/4/1

OR8
10K/4/1

OR85
10K/4/1

OC17
1u4/X5R/6.3V/K

X16_TEMP1
10K/1/4/S

OC14
1u4/X5R/6.3V/K

VCORE_TEMP
100K/1/4/S

OC15
1u4/X5R/6.3V/K

SYS_TEMP2
10K/1/4/S

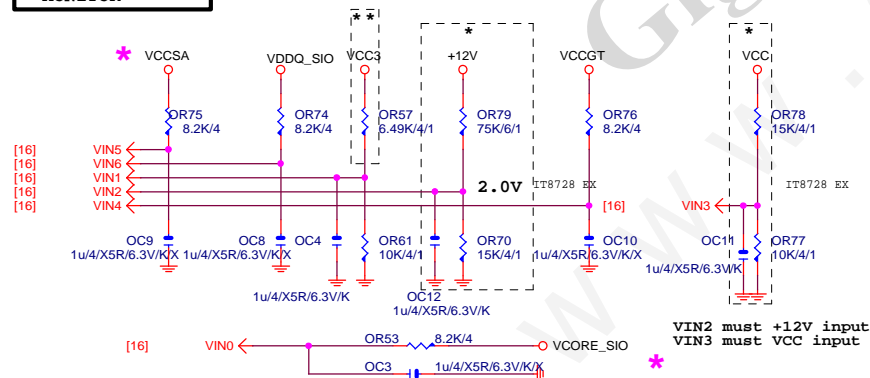
CLOSE VCORE MOSFET

[16] VREF

[16] TR4
[16] TR5
[16] TR6

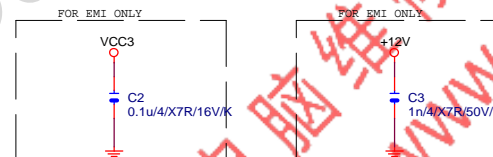
[16] TR4
[16] TR5
[16] TR6

* IT8728
* * IT8728



The division voltage of VIN2 & VIN3 must be around 2.9V

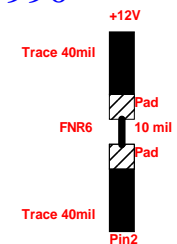
★Update 2015-04.24

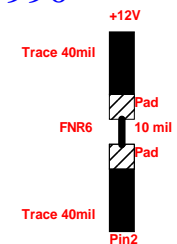


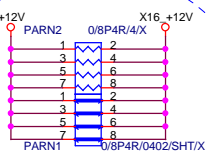
VIN2 must +12V input

Gigabyte Technology

Title		HWM,KB/MS, FAN CTRL	
Size	Document Number	Rev	
Custom	GA-Z270N-WIFI	1.0	
Date:	Thursday, November 17, 2016	Sheet	17 of 56





+12V protect short-wire test

PA_EXP_RXP0_15I >> PA_EXP_RXP0[0..15] [4]
PA_EXP_RXN0_15I >> PA_EXP_RXN0[0..15] [4]
PA_EXP_TXP0_15I >> PA_EXP_TXP0[0..15] [4]
PA_EXP_TXN0_15I >> PA_EXP_TXN0[0..15] [4]

PA_EXP_TXP0	PAC5	0.22u/4/X5R/6.3V/K	PA_EXP_TXP0_C
PA_EXP_TXN0	PAC4	0.22u/4/X5R/6.3V/K	PA_EXP_TXN0_C
PA_EXP_TXP1	PAC6	0.22u/4/X5R/6.3V/K	PA_EXP_TXP1_C
PA_EXP_TXN1	PAC7	0.22u/4/X5R/6.3V/K	PA_EXP_TXN1_C
PA_EXP_TXP2	PAC8	0.22u/4/X5R/6.3V/K	PA_EXP_TXP2_C
PA_EXP_TXN2	PAC9	0.22u/4/X5R/6.3V/K	PA_EXP_TXN2_C
PA_EXP_TXP3	PAC10	0.22u/4/X5R/6.3V/K	PA_EXP_TXP3_C
PA_EXP_TXN3	PAC11	0.22u/4/X5R/6.3V/K	PA_EXP_TXN3_C
PA_EXP_TXP4	PAC12	0.22u/4/X5R/6.3V/K	PA_EXP_TXP4_C
PA_EXP_TXN4	PAC13	0.22u/4/X5R/6.3V/K	PA_EXP_TXN4_C
PA_EXP_TXP5	PAC14	0.22u/4/X5R/6.3V/K	PA_EXP_TXP5_C
PA_EXP_TXN5	PAC15	0.22u/4/X5R/6.3V/K	PA_EXP_TXN5_C
PA_EXP_TXP6	PAC16	0.22u/4/X5R/6.3V/K	PA_EXP_TXP6_C
PA_EXP_TXN6	PAC17	0.22u/4/X5R/6.3V/K	PA_EXP_TXN6_C
PA_EXP_TXP7	PAC18	0.22u/4/X5R/6.3V/K	PA_EXP_TXP7_C
PA_EXP_TXN7	PAC19	0.22u/4/X5R/6.3V/K	PA_EXP_TXN7_C
PA_EXP_TXP8	PAC20	0.22u/4/X5R/6.3V/K	PA_EXP_TXP8_C
PA_EXP_TXN8	PAC21	0.22u/4/X5R/6.3V/K	PA_EXP_TXN8_C
PA_EXP_TXP9	PAC22	0.22u/4/X5R/6.3V/K	PA_EXP_TXP9_C
PA_EXP_TXN9	PAC23	0.22u/4/X5R/6.3V/K	PA_EXP_TXN9_C
PA_EXP_TXP10	PAC24	0.22u/4/X5R/6.3V/K	PA_EXP_TXP10_C
PA_EXP_TXN10	PAC25	0.22u/4/X5R/6.3V/K	PA_EXP_TXN10_C
PA_EXP_TXP11	PAC26	0.22u/4/X5R/6.3V/K	PA_EXP_TXP11_C
PA_EXP_TXN11	PAC27	0.22u/4/X5R/6.3V/K	PA_EXP_TXN11_C
PA_EXP_TXP12	PAC28	0.22u/4/X5R/6.3V/K	PA_EXP_TXP12_C
PA_EXP_TXN12	PAC29	0.22u/4/X5R/6.3V/K	PA_EXP_TXN12_C
PA_EXP_TXP13	PAC30	0.22u/4/X5R/6.3V/K	PA_EXP_TXP13_C
PA_EXP_TXN13	PAC31	0.22u/4/X5R/6.3V/K	PA_EXP_TXN13_C
PA_EXP_TXP14	PAC32	0.22u/4/X5R/6.3V/K	PA_EXP_TXP14_C
PA_EXP_TXN14	PAC33	0.22u/4/X5R/6.3V/K	PA_EXP_TXN14_C
PA_EXP_TXP15	PAC34	0.22u/4/X5R/6.3V/K	PA_EXP_TXP15_C
PA_EXP_TXN15	PAC35	0.22u/4/X5R/6.3V/K	PA_EXP_TXN15_C

PCIEX16:16/5/5/5/16

PCI-E REV:1.1--> 2.5GHZ

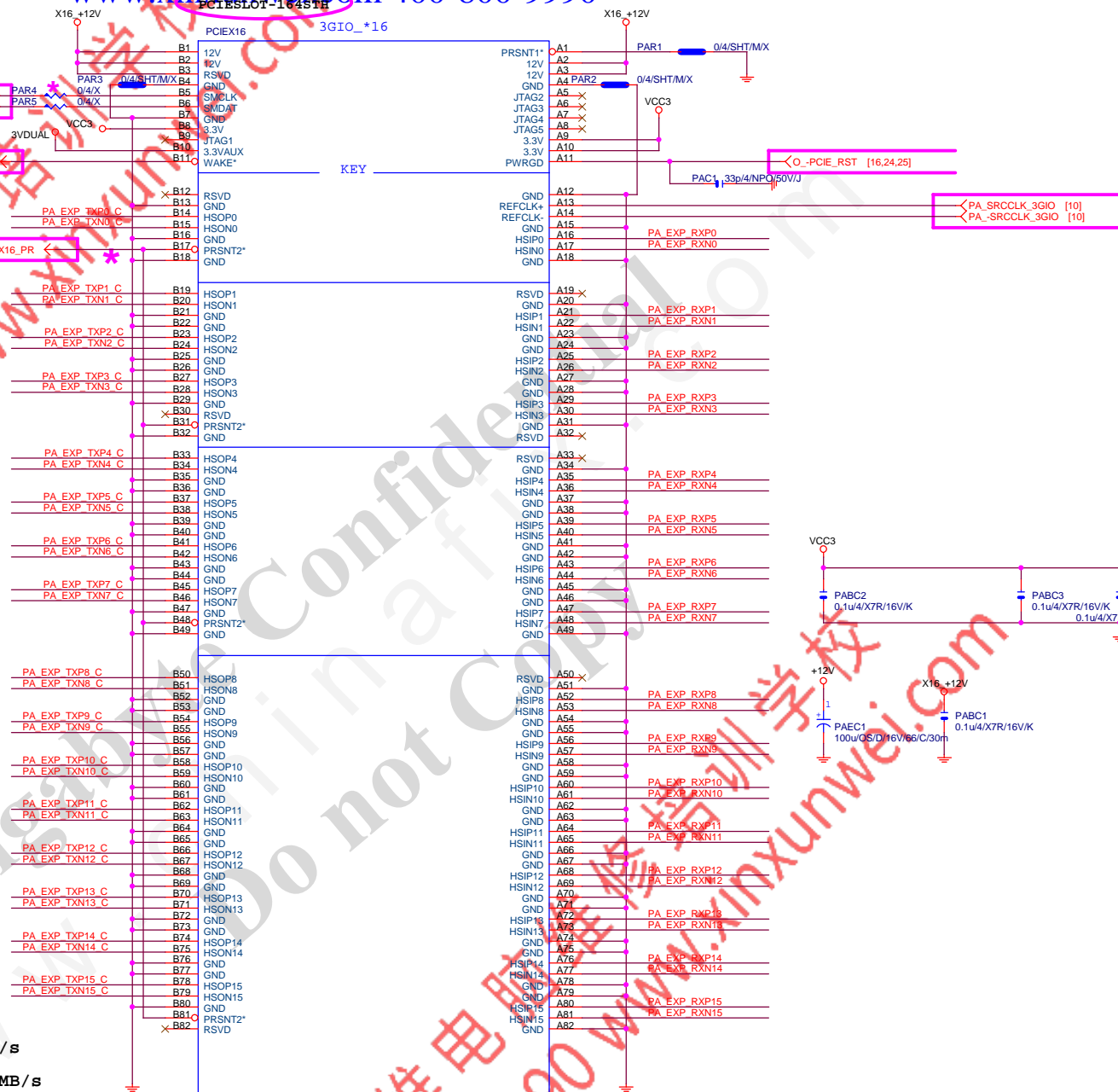
PCE-E X1(單向) BANDWIDTH=2.5GHz*(8b/10b)=2Gb/s=250MB/s

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

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

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

PCI-E REV:2.0--> 5GHZ

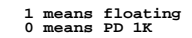


PCE-E/16X-164P/BK/LONG DOUBLE

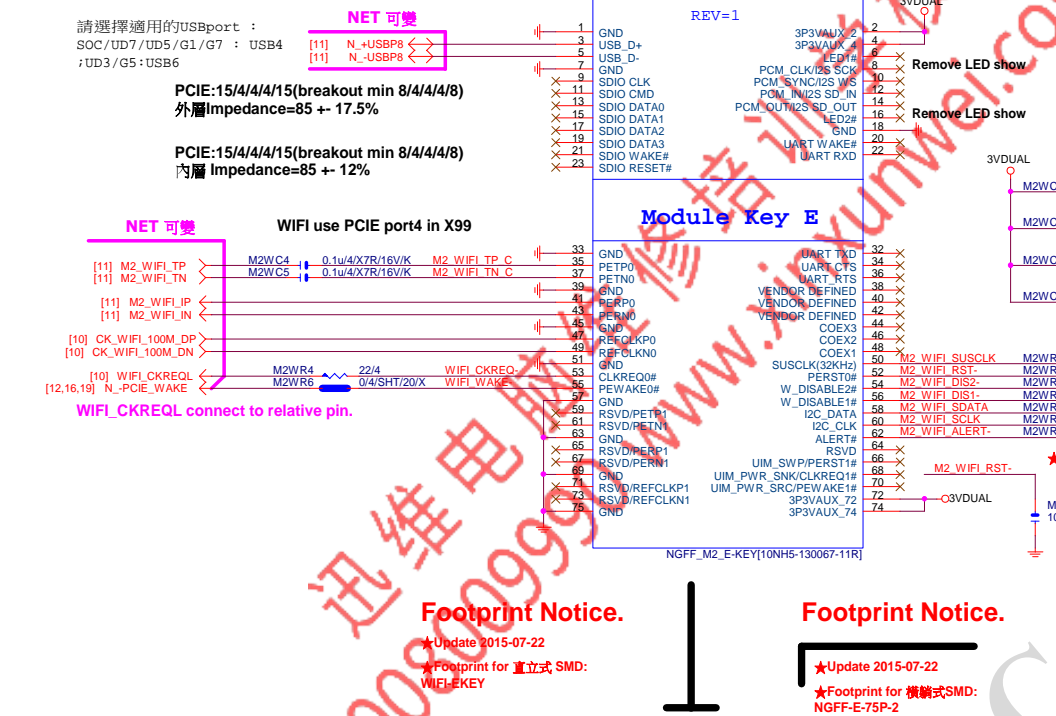
黑色SLOT

Gigabyte Technology

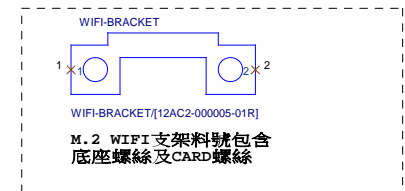
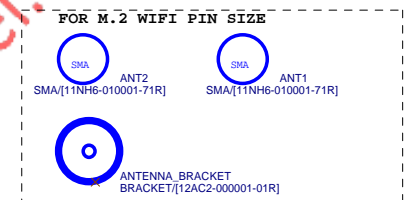
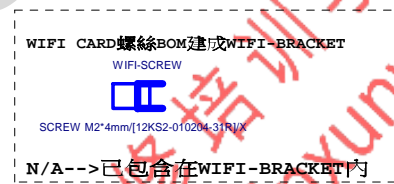
Title			PCI EXPRESS * 16	
Size	Document Number	Rev		1.0
Custom	GA-Z270N-WIFI			
Date:	Thursday, November 17, 2016	Sheet	19	of 56



<h1 style="text-align: center; color: blue;">Gigabyte Technology</h1>				
Title				
<h2>M.2 X4</h2>				
Size	Document Number			Rev
Custom	<h2>GA-Z270N-WIFI</h2>			1
Date:	Thursday, November 17, 2016		Sheet	24 of 56

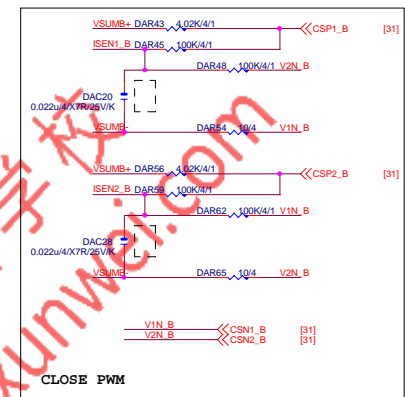


FOR M.2 WIFI MODULE ON BOARD



FOOTPRINT:
M2-WIFI-BRACKET

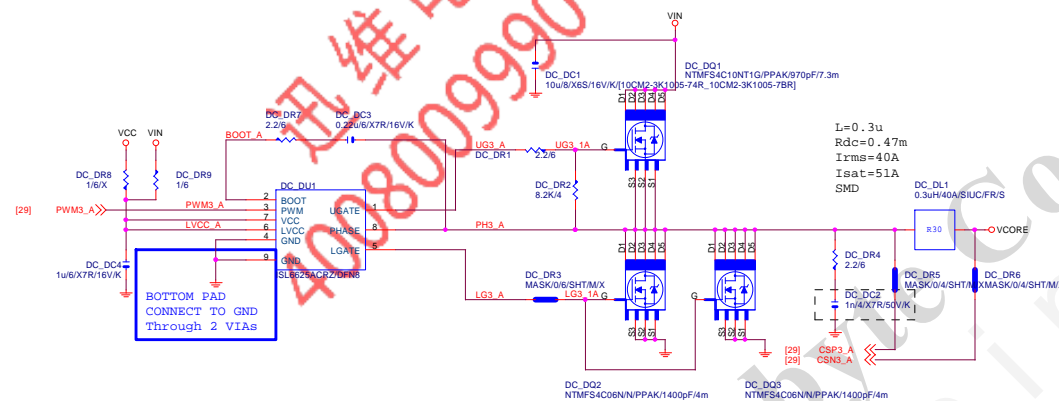
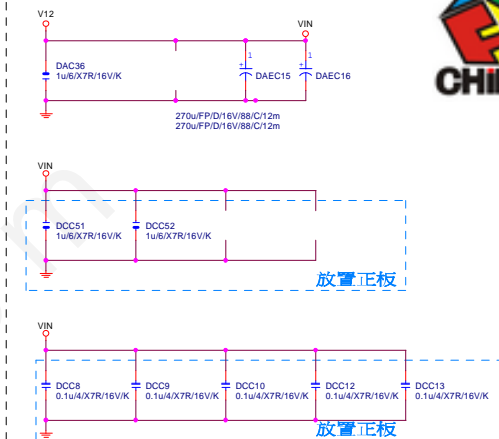
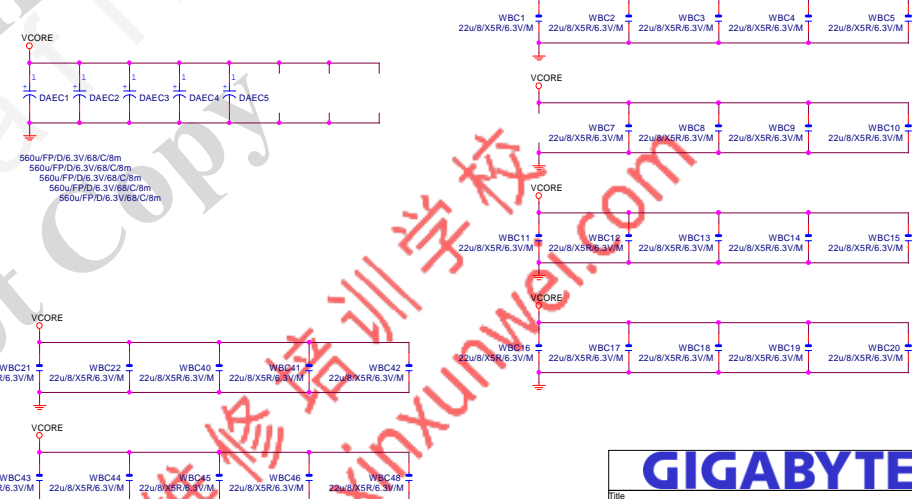
GIGABYTE™			
Title M2_WIFI_E_KEY			
Size	Document Number	Rev	
Custom	GA-Z270N-WIFI	1.0	
Date:	Thursday, November 17, 2016	Sheet	25 of 56

[illegible]

VCORE



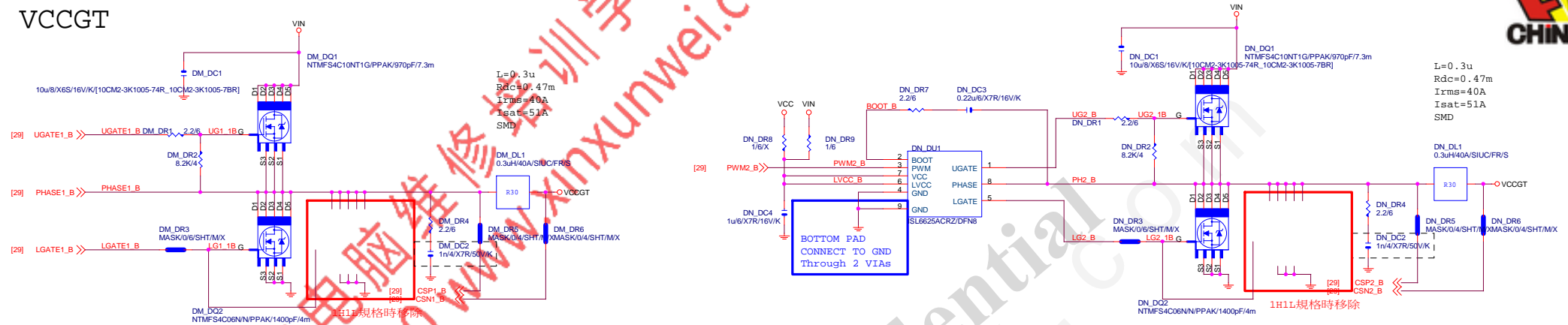
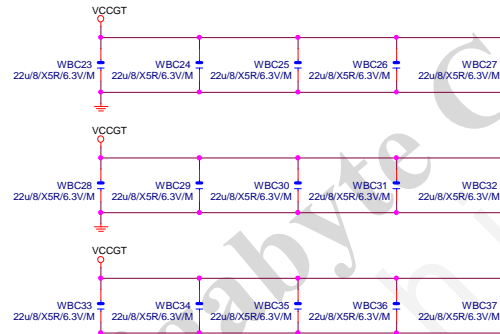
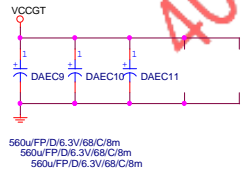
VIN CAP 270u*3PCS

VCORE CAP 560u*4PCS
10u*10PCS**GIGABYTE™**

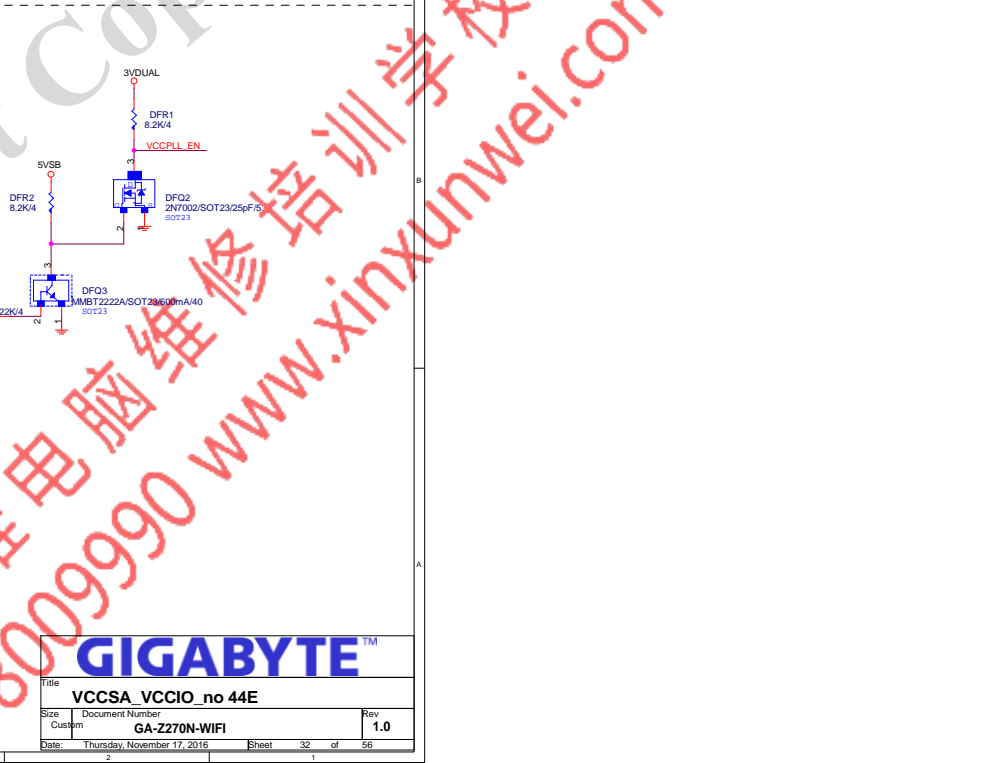
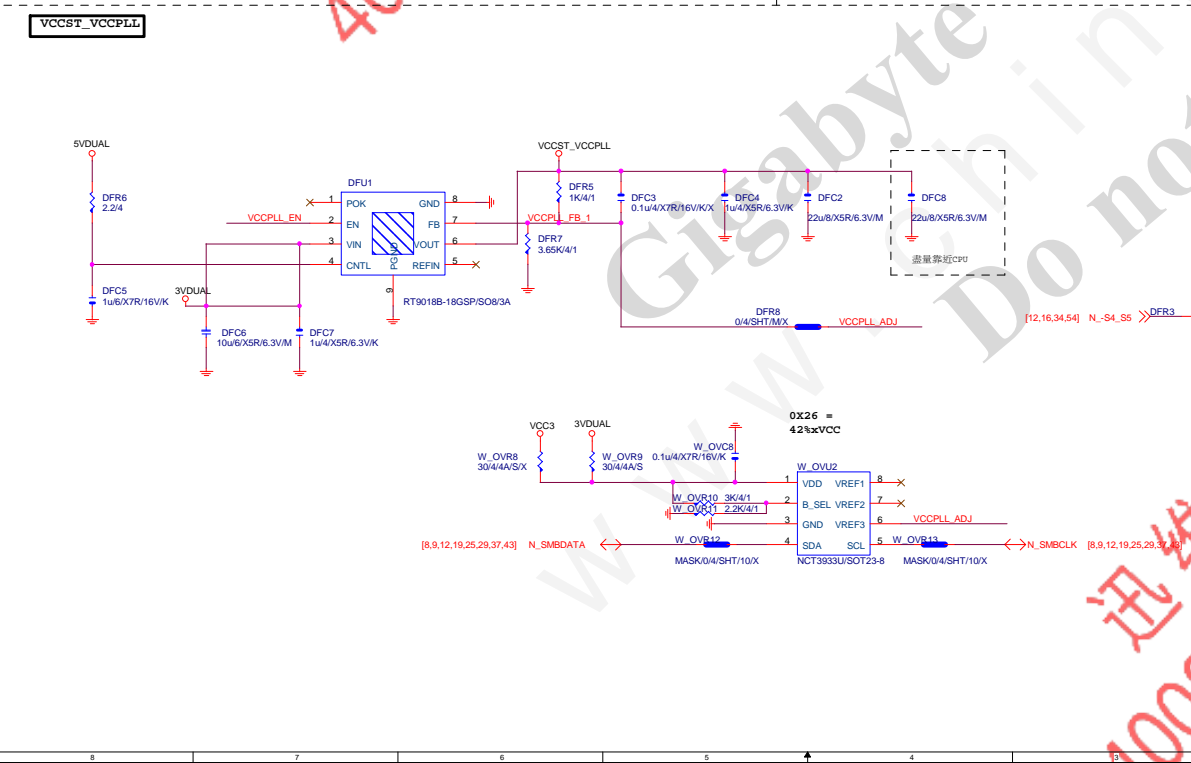
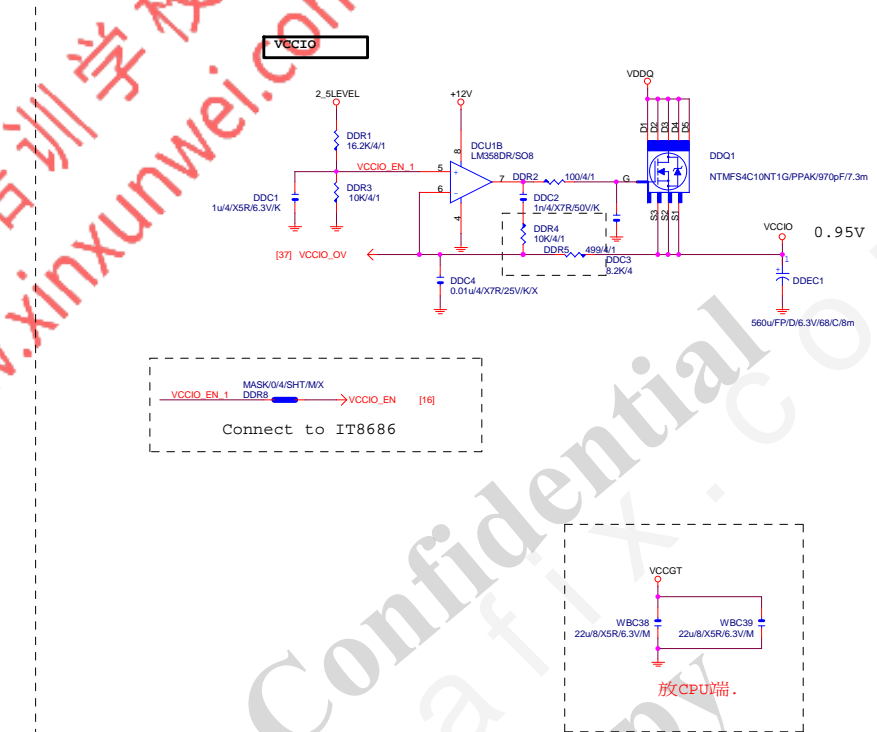
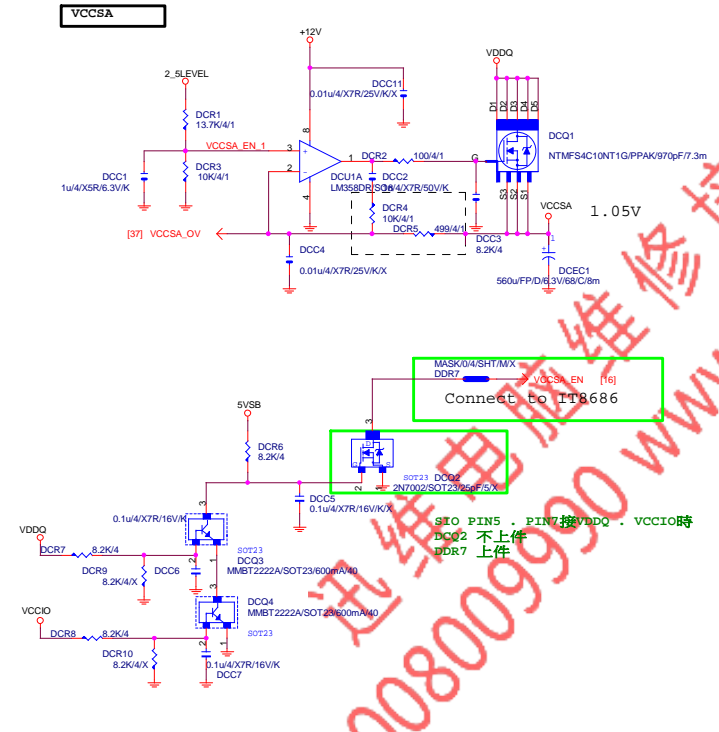
Title			
ISL95868_MOS			
Size	Document Number	Rev	
Custom	GA-Z270N-WIFI	1.0	
Date:	Thursday, November 17, 2016	Sheet	30 of 56



VCCGT

VCCGT CAP 560u*2PCS
10u*2PCS

GIGABYTE™			
Title			
ISL95868_MOS			
Size		Document Number	
Custom		GA-Z270N-WIFI	
Date:		Thursday, November 17, 2016	Sheet 31 of 56
		Rev	1.0



5VDUAL
MAR2
8.2K/4
MA_EN
上件

MA_DR38.MA_DC15

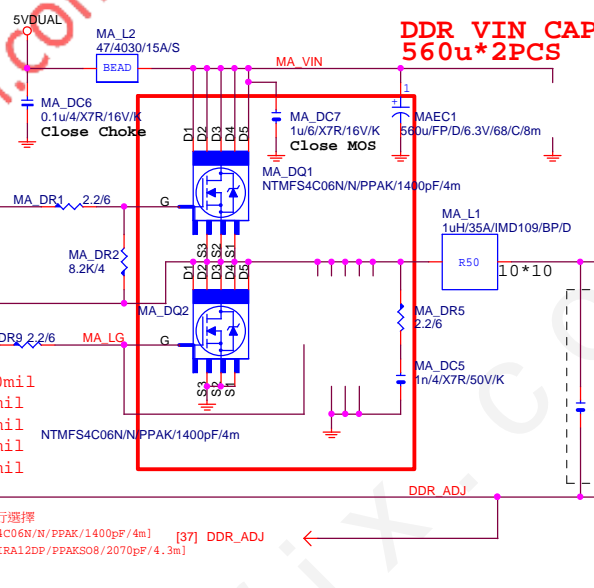
VPP_25V使用8120.8068A.RT8237時上付

VPP_25V使用8120.8068A.RT8237時上件



MOSFET請依MOSFET使用規則,自行選擇
ON-->10IF9-040406-10R[NTMFS4C06N/N/PPAK/1400pF/4m] [3]
VISHAY-->10IF9-040012-10R[SIRAL2DP/PPAKS08/2070pF/4.3m]

PIN7-->20mil
PIN1-->6mil
PIN2-->6mil
PIN5-->6mil
PIN3-->6mil



25A MAX

1.2V

```
L=1u      | - - -
DCR=2.5 mohm |
Isat=35A  |
Idc=28A   |
```

請放置CHOKE一出來位置.先預留.
請自行確認ripple後再決定是否上件

Remote sense請從最重的負載端點拉回

CLOSE TO DDR POWER PLANE

For power sequence require

VPP_25V使用8120時上件

MAU1上RT9045時上件(不可MASK)

[4] DDR_VTT_CTL	DDR_VTT_CTL	MAR110	MASK/0/4/SHT/M/10/X	DDRVTT_EN
[12,16,54] N_SLP_S3	N_SLP_S3	MAR111	MASK/0/4/SHT/M/10/X	DDRVTT_BOOT

DDRVTT CAP

* 大

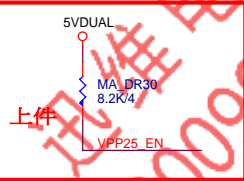
GIGABYTE™

RT8237 DDR4 POWER

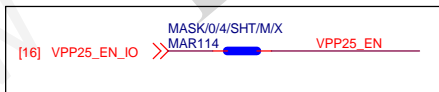
Document Number	Rev
GA-Z270N-WIFI	1.0

Thursday, November 17, 2016 Sheet 33 of 56

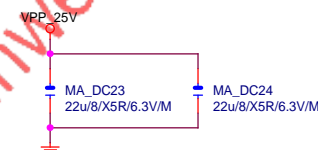
CHOKE與CAP料號可變



* 删除 MA_DR32



* 大電容 x0



GIGABYTE™

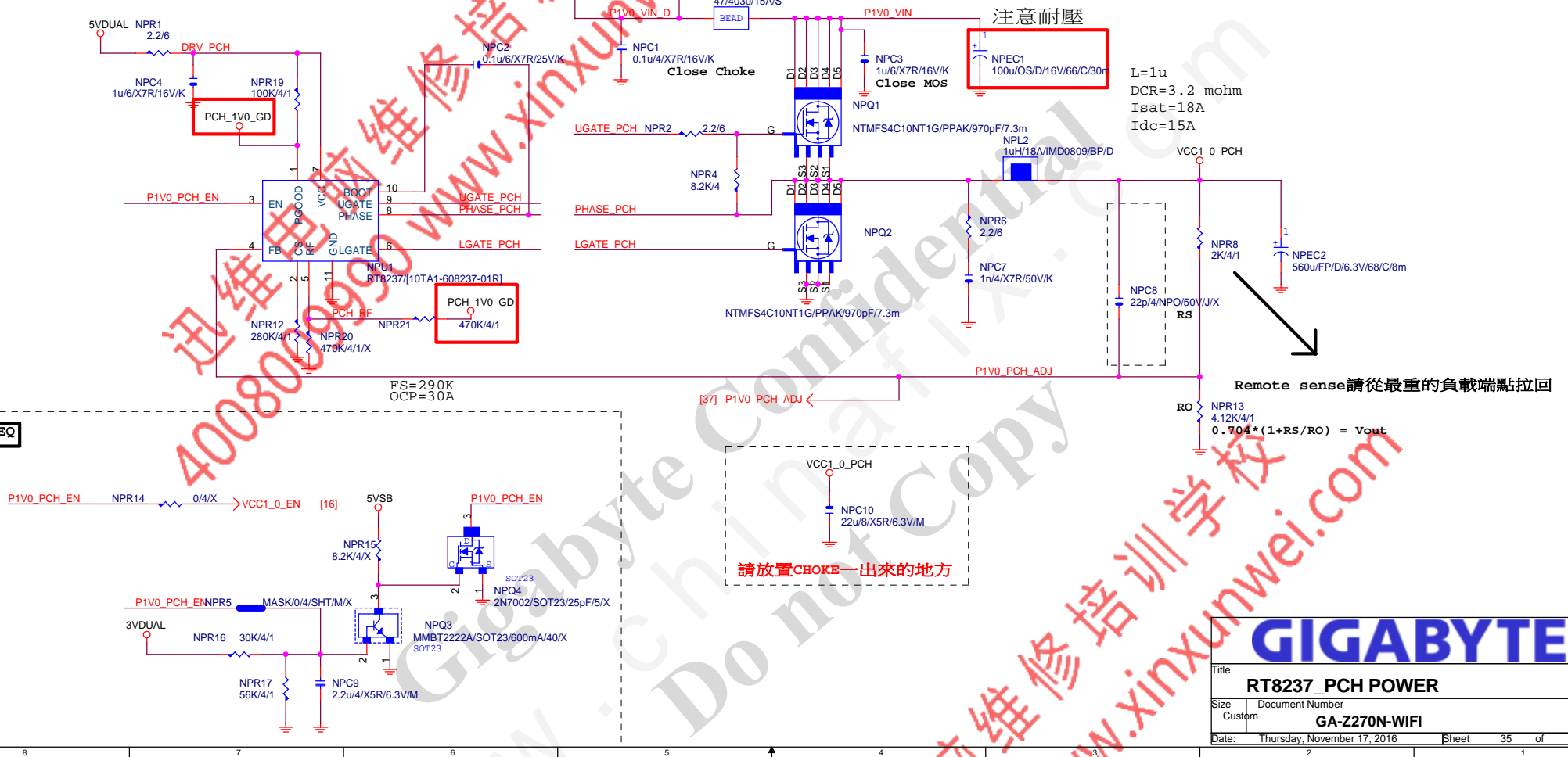
Title				RT8068A_VPP25 POWER			
Size	Document Number						Rev
Custom	GA-Z270N-WIFI						1.0
Date:	Thursday, November 17, 2016			Sheet	34	of	56

REV:0.1

www.xinxunwei.com 400-800-9990



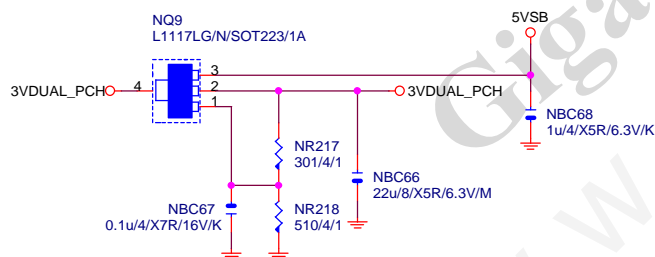
CHOKE與CAP料號可變



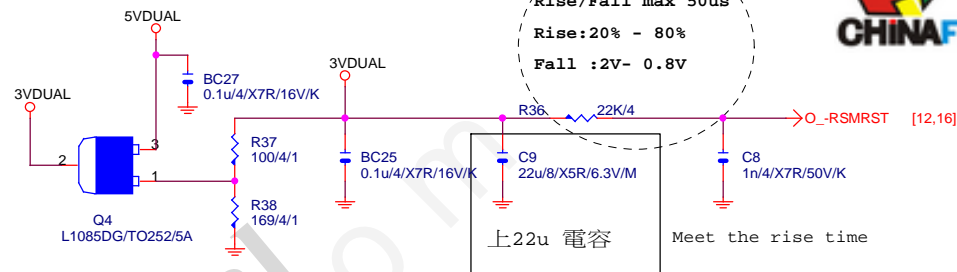
```
* 5Vdual , update
from SKL 0.2B
```



3VDUAL_PCH



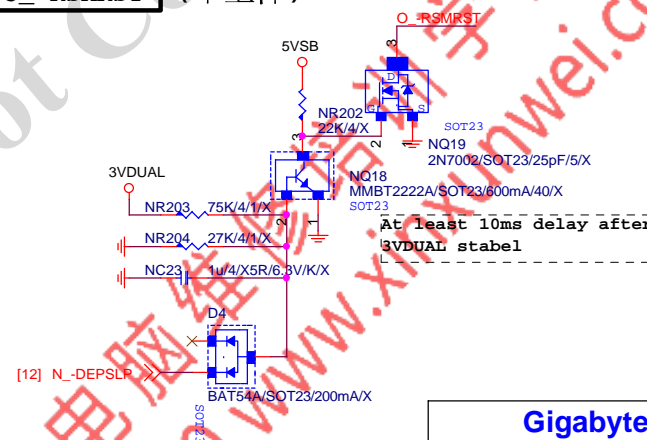
3VDUAL



上22u 電容

Meet the rise time

O_-RSMRST (不上件)



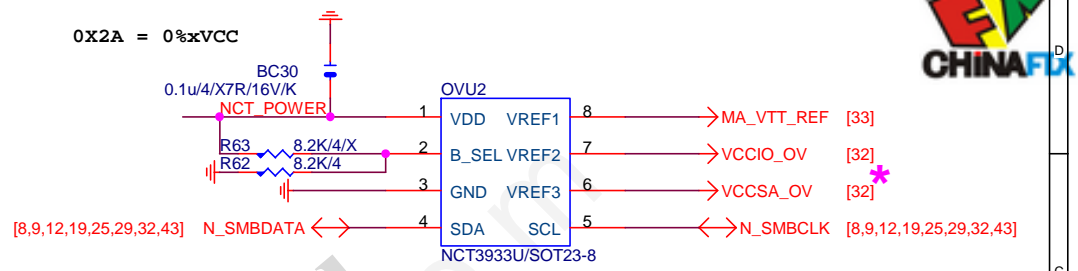
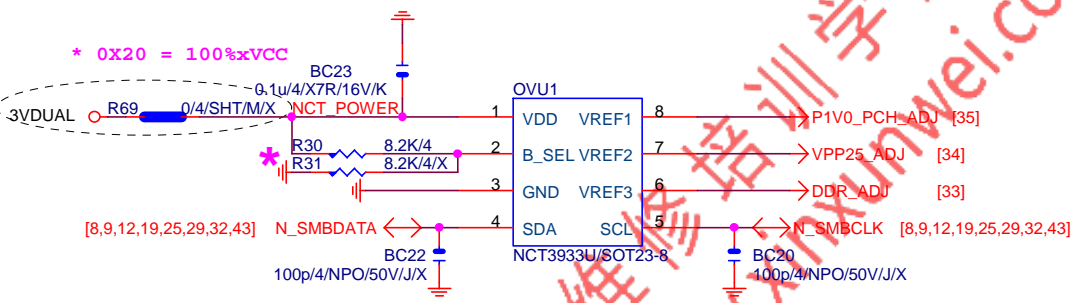
[12] N_DEPSLP \gg

Gigabyte Technology

Title			
DISCRETE POWER			
Size	Document Number	Rev	
Custom	GA-Z270N-WIFI	1.0	
Date:	Thursday, November 17, 2016	Sheet	36 of 56



OVER VOLTAGE



* 删除 OVU3

NCT3933	0X2A	0X20	0X22
VREF1	DDRVTT	VREF_DDRA_DQ	PCH Core
VREF2	VREF_DDRA_CA	N/A	VCC1_5_PCH
VREF3	VREF_DDRA_CA	VREF_DDRB_DQ	SMREF

Gigabyte Technology

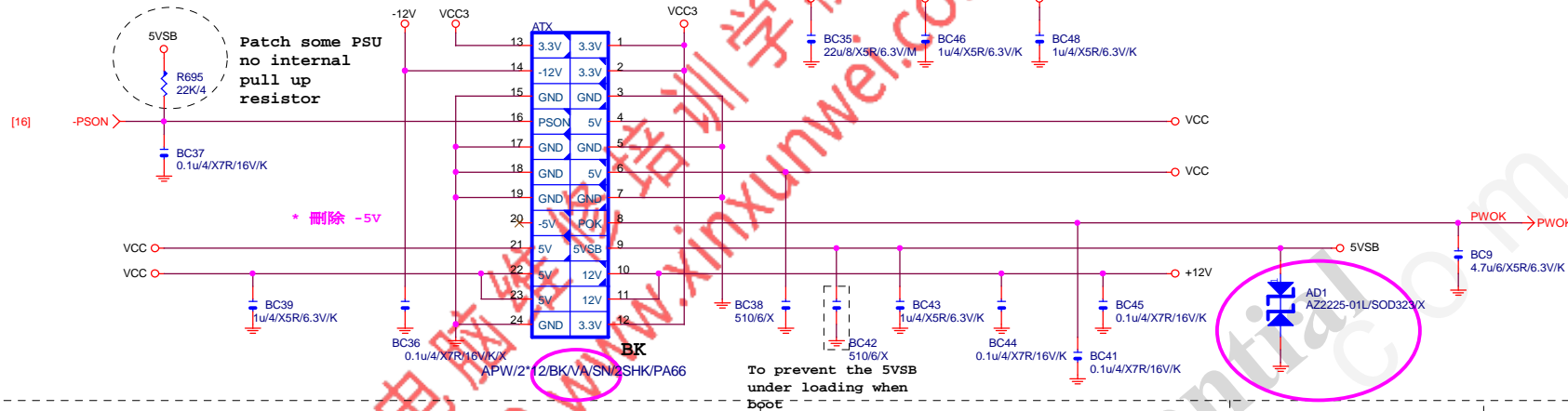
Title: CPU CORE VR-2

Size Custom	Document Number	Rev 1.0
Date: Thursday, November 17, 2016		Sheet 37 of 56

ATXX24 POWER CONNECTOR

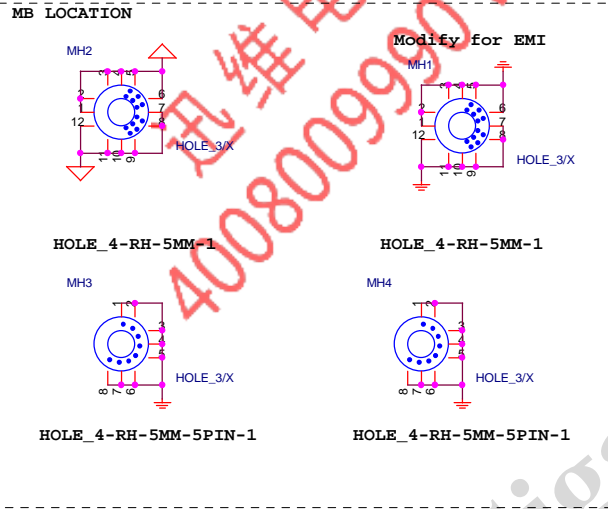
www.xinxunwei.com 400-800-9990

ATXX4 POWER CONNECTOR

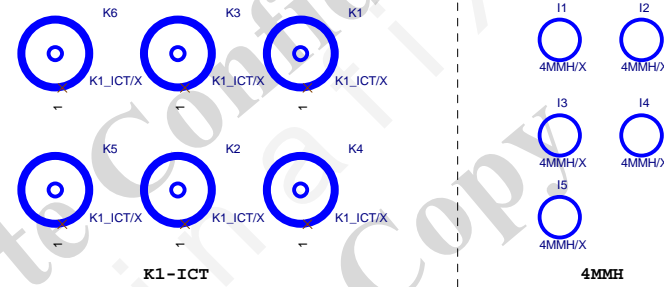


螺絲孔

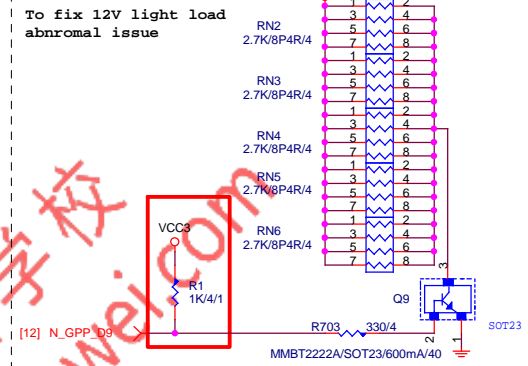
MH1:GND-T FOR EMI TEST驗證



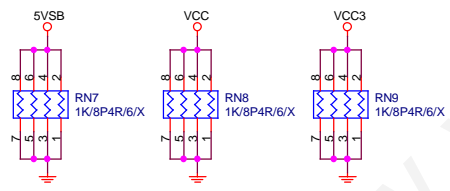
固定孔/光學點



+12V DUMMY LOAD



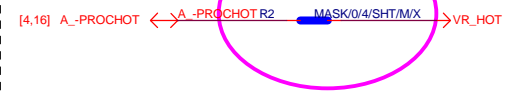
DUMMY LOAD



COUPON



-PROHOT



Gigabyte Technology

ATX POWER CONNECTOR		
Title	Document Number	Rev
Size Custom	GA-Z270N-WIFI	1.0
Date: Thursday, November 17, 2016	Sheet 38 of 56	

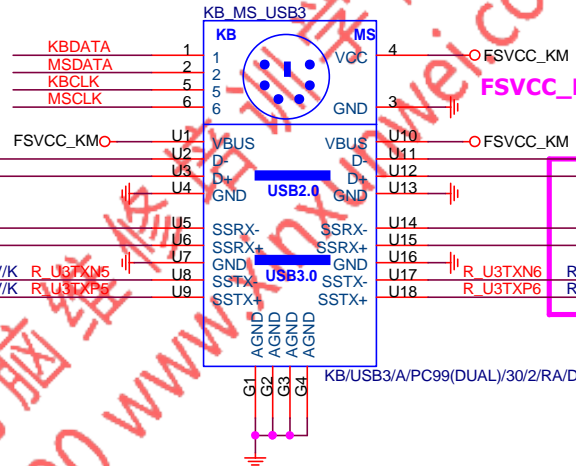
KB_MS_USB3

USB 電容前後NET 可自行調整

[11] N_-USBP5
[11] N_+USBP5

[11] PCH_USB3_RXN5
[11] PCH_USB3_RXP5

[11] PCH_USB3_TXN5
[11] PCH_USB3_TXP5



FSVCC_KM 請確認是否要用 USB_DAC(Page.12) power.

USB 電容前後NET 可自行調整

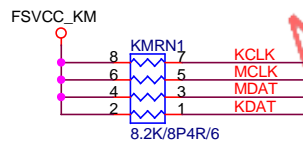
[11] N_-USBP6
[11] N_+USBP6

[11] PCH_USB3_RXN6
[11] PCH_USB3_RXP6

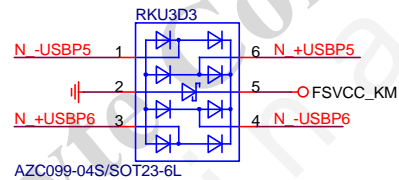
[11] PCH_USB3_TXN6
[11] PCH_USB3_TXP6

FOR 鹽化短路

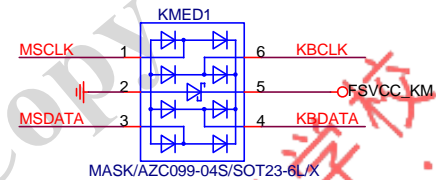
KCLK KMR1 82/6 KBCLK
KDAT KMR2 82/6 KBDATA
MDAT KMR3 82/6 MSDATA
MCLK KMR4 82/6 MSCLK



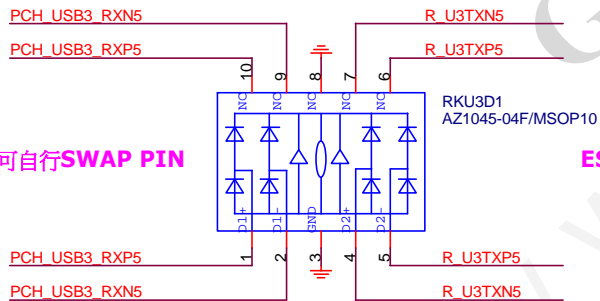
ESD 可自行SWAP PIN



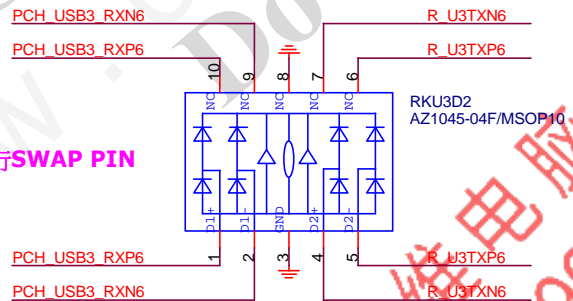
ESD 可自行SWAP PIN



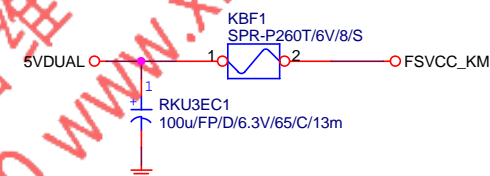
ESD 可自行SWAP PIN



ESD 可自行SWAP PIN



FUSE 2 Port 1 Fuse 2.6A



Gigabyte Technology

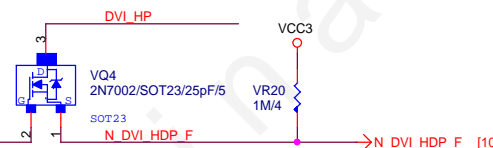
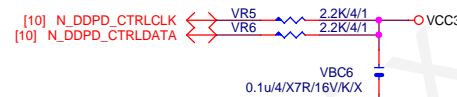
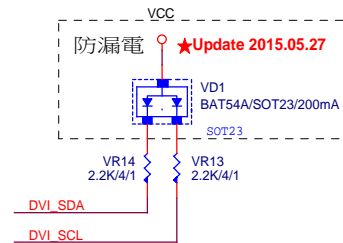
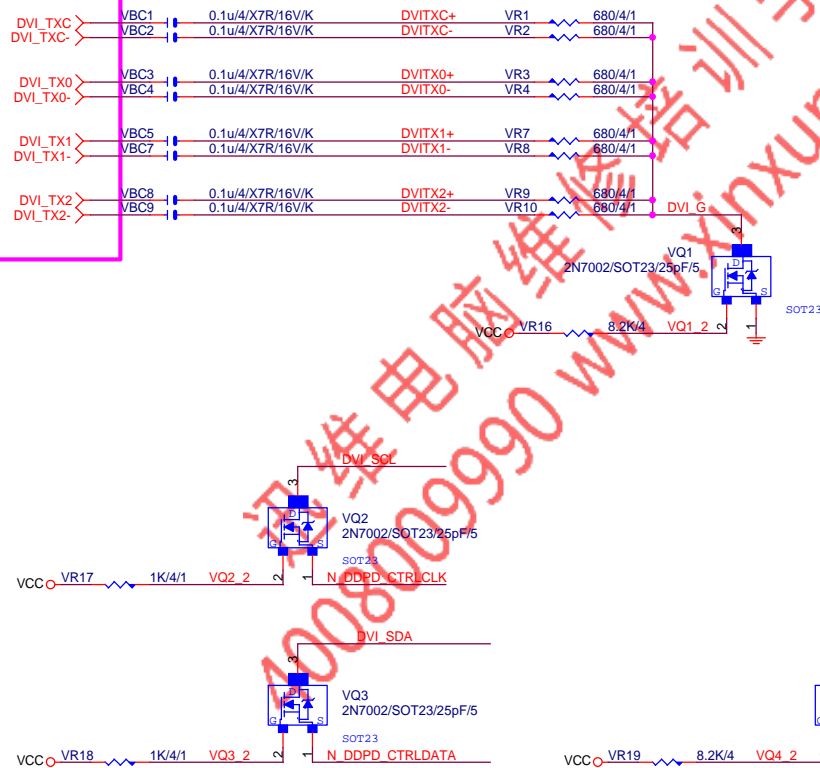
KB_MS_USB

Title	KB_MS_USB	
Size	Document Number	Rev
Custom	GA-Z270N-WIFI	1.0
Date:	Thursday, November 17, 2016	Sheet 39 of 56



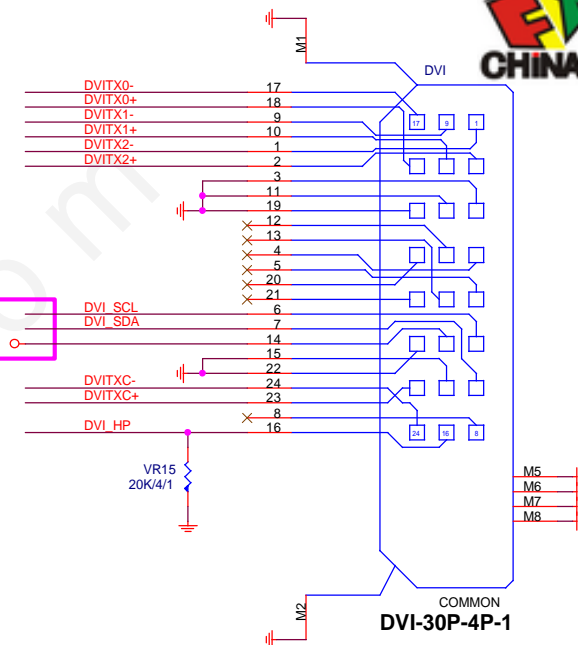
NET 可變

DVI:20/4/6/4/20
Impedance=85 +- 17.5%

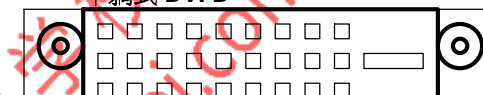


NET 可變

* ECVGG KM



~~平躺式~~ DVI-D



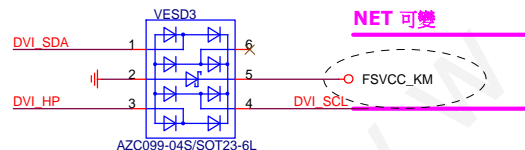
ESD

NET 可變

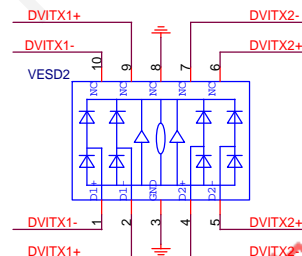
FSVCC_KM

VBC10
0.1u/4/X7R/16V/K

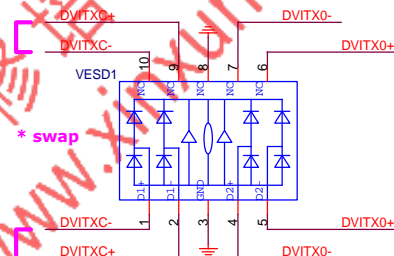
NET 可變



Close to connector



Close to connector



Close to connector

Gigabyte Technology

Title

DVI

Size	Custom
------	--------

Document Number

GA-Z270N-WIFI

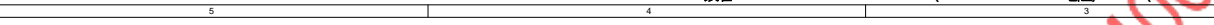
Rev
1.0

Date: Thursday, November 17, 2016

Sheet 40 of 56



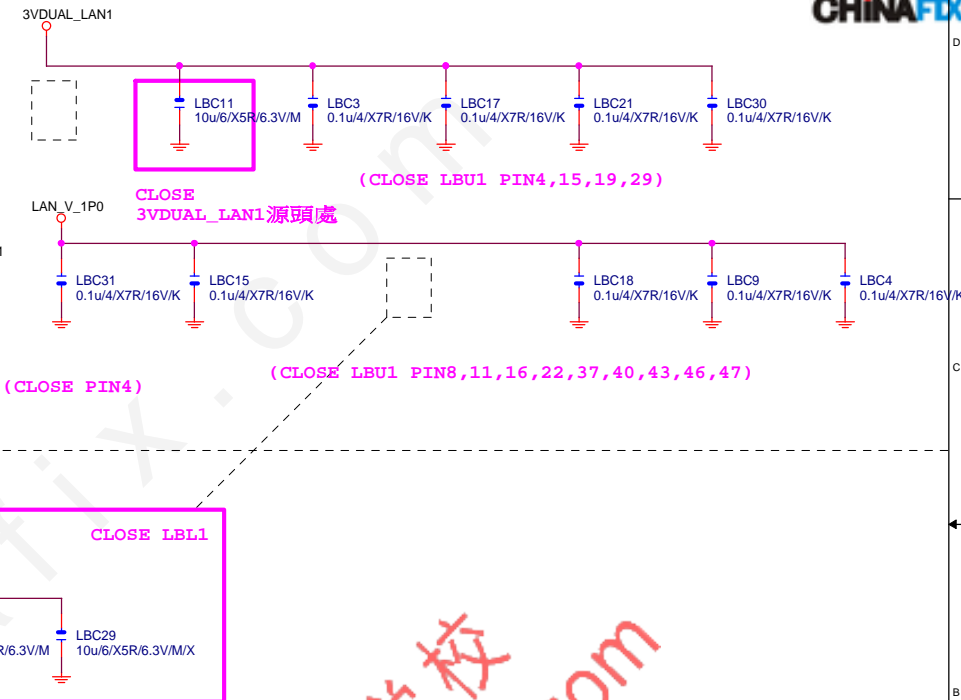
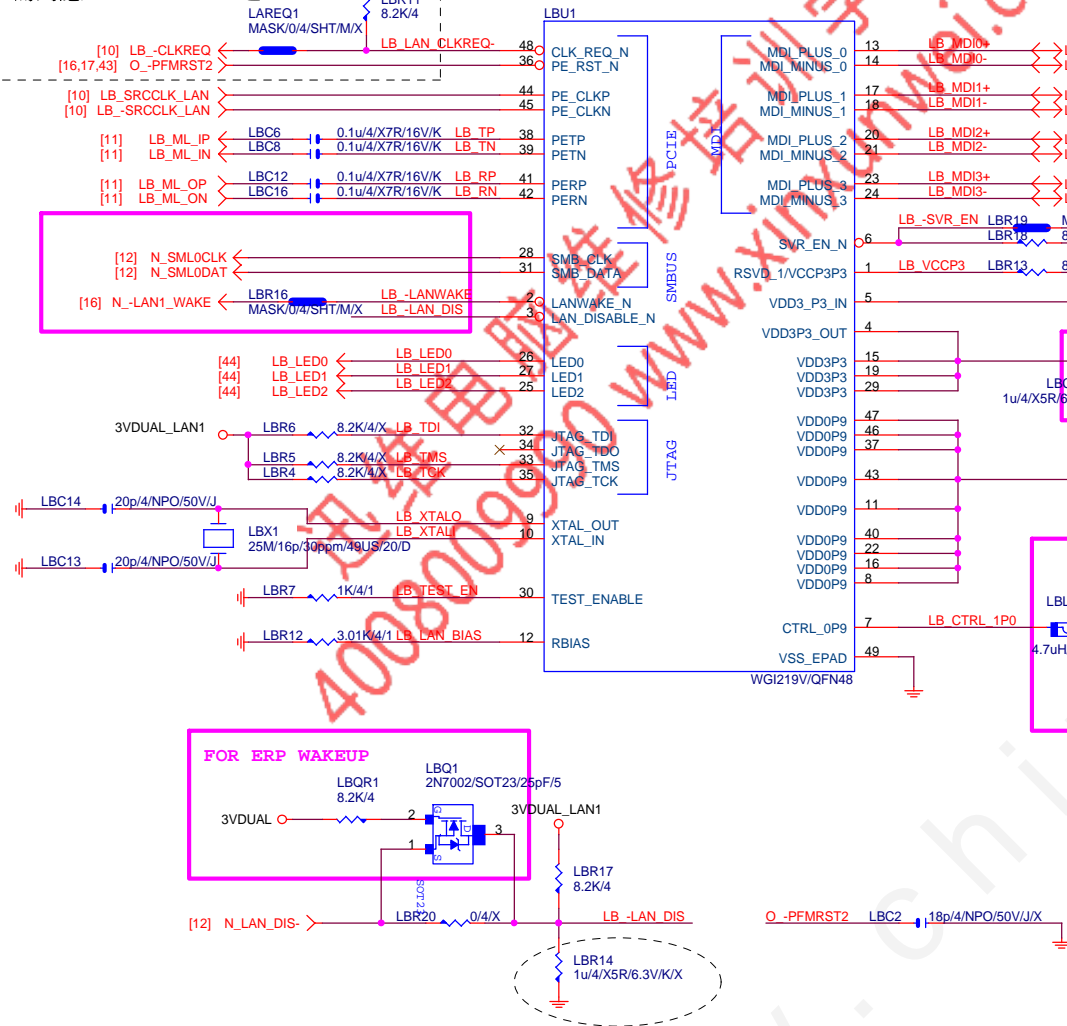
HDMI LEVEL SHIFT SCL, SDA, HPT connect to relative pin at South Bridge side.



原因: 因目前的HDMI訊號過長,造成RISING TIME過慢,而會壓到eye diagram
改善: ASMEDIA ASM1442 : 3.16K(PIN6 PULL DOWN電阻) 10ohm(PIN4 PU



Title		DUAL HDMI		Rev
Size Custom	Document Number	GA-Z270N-WIFI		1.0
Date:	Thursday, November 17, 2016	Sheet	41	of 56

L1+CLK REQ# 節能:
需對應LA_SRCCLK_LAN之CLKREQ#

Gigabyte Technology			
Title			
DUAL LAN~ I219			
Size	Document Number	Rev	
Custom	GA-Z270N-WIFI	1.0	
Date:	Thursday, November 17, 2016	Sheet	42 of 56



N/A

N/A

When pulled up, iNVM security features are enabled.

LAN POWER

```
(CLOSE LCU1 PIN10,27,41,51,64)
```

(CLOSE LCU1 PIN39,47,56)

(CLOSE LCU1 PIN11,32,38,42,59)

Gigabyte Technology

DUAL LAN~ I211

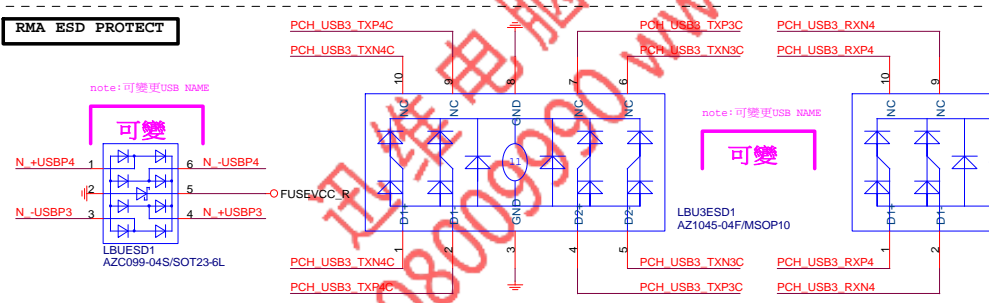
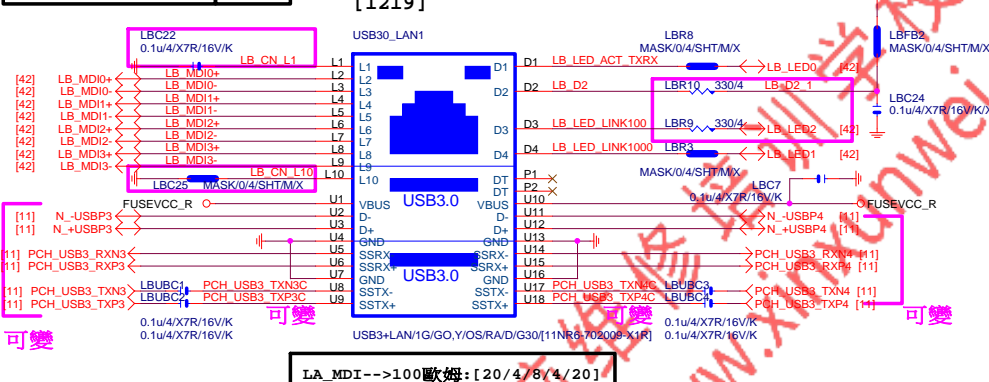
GA-Z270N-WIFI

Rev	
1.0	

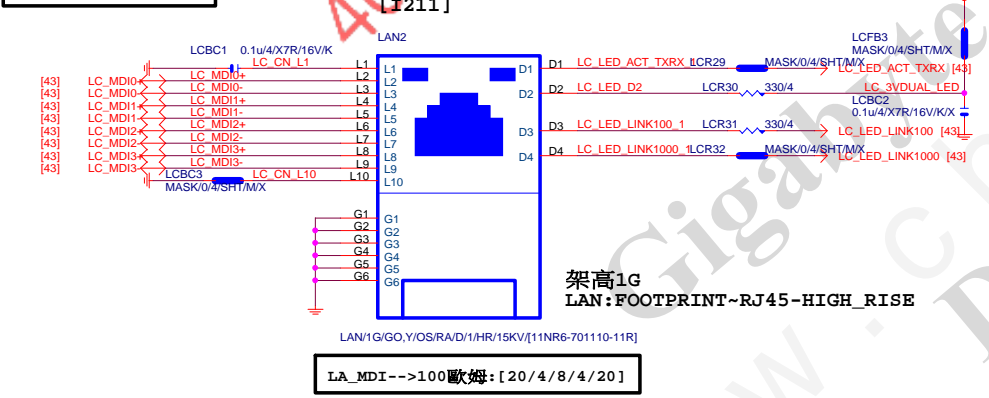
Date: Thursday, November 17, 2016 Sheet 43 of 56

Sheet 43 of 56

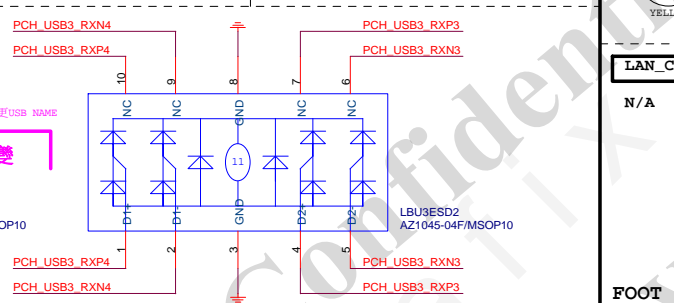
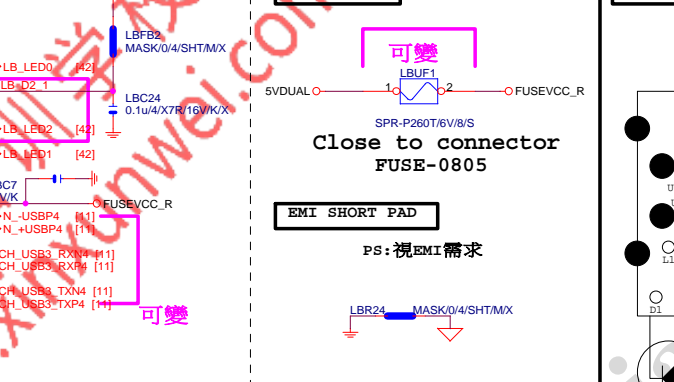
USB LAN CONNECTOR-B R1.08



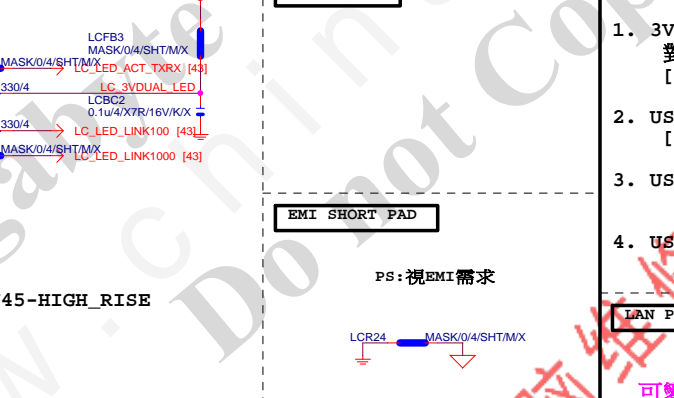
USB LAN CONNECTOR-C



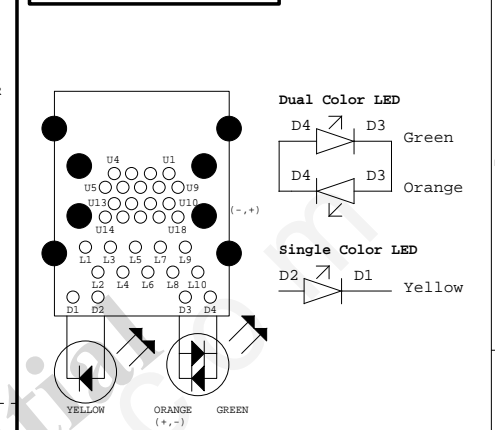
USB POWER



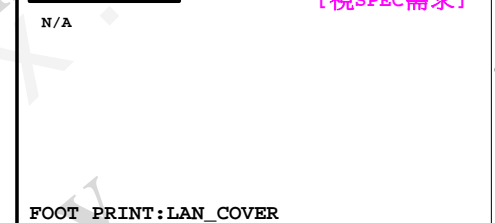
USB POWER



USB30 LAN LAYOUT示意图



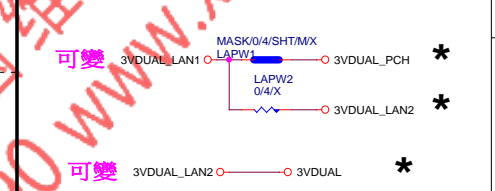
LAN COVER



NOTE:

- 3VDUAL_LAN1, 3VDUAL_LAN2 對接POWER供應電流 [目前暫接3VDUAL]
- USB2.0/3.0對應USB PORT [目前暫接USB 0,1,2,3 PORT]
- USB DROOP/DROP E-CAP
- USB OC線路

LAN POWER



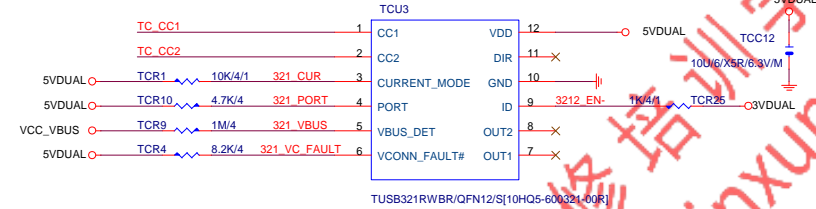
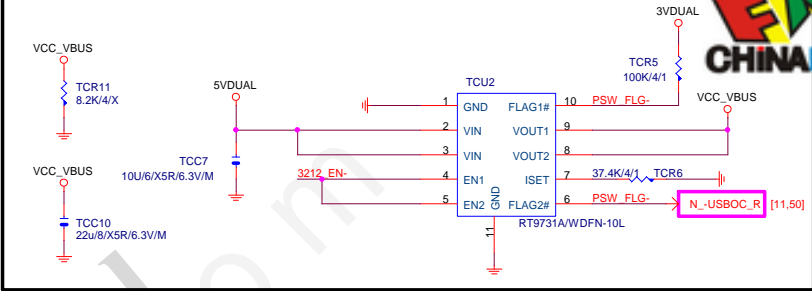
~USB30_LAN1設定在ERP可LAN WAKEUP

~USB30_LAN2由獨立LAN POWER L1117供給

Gigabyte Technology			
LAN CONNECTOR-I219&I211			
Size	Document Number	Rev	
Custom		1.0	
Date:	Thursday, November 17, 2016	Sheet	44 of 56



TypeC default 5V/3A

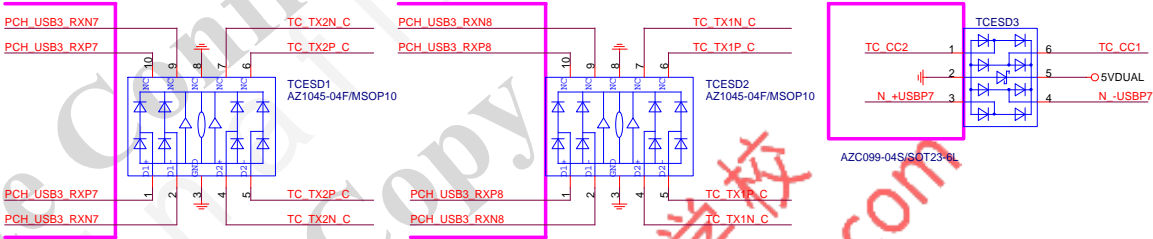


CURRENT MODE

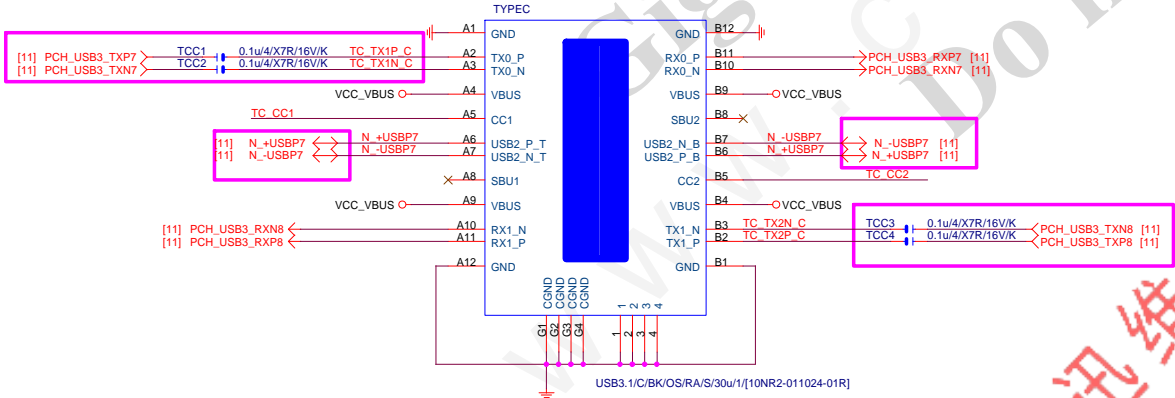
- L - Default current / Pull down to GND or NC
- M - Medium (1.5A) current / Pull up to VDD 500K
- H - High (3.0A) current / Pull up to VDD 10K

PORT

- H - HOST
- L - Device
- NC - Dual Role

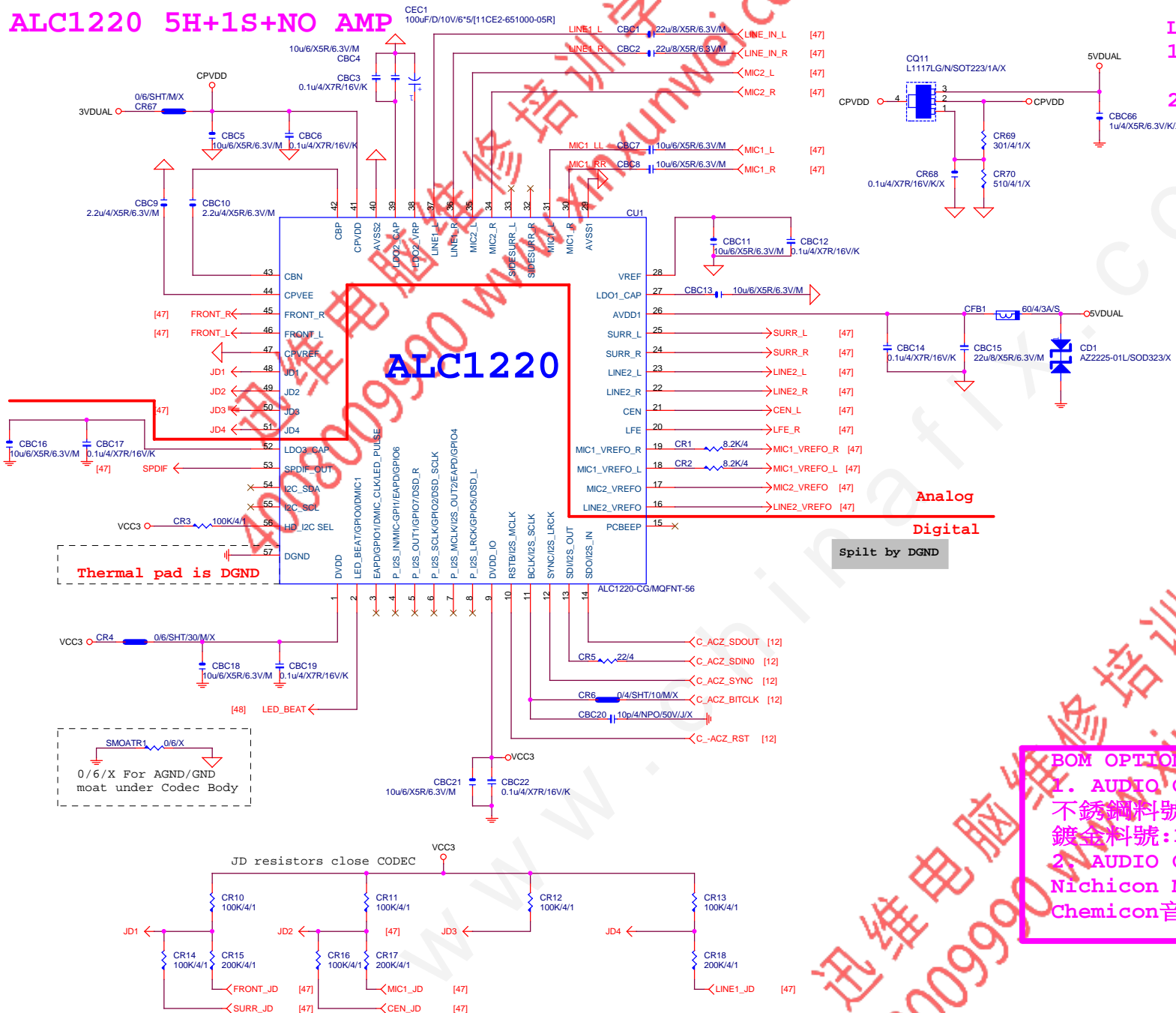


Color markers can be changed by model



USB2.0 can be used the same source

ALC1220 5H+1S+NO AMP



Gigabyte Technology

Title HD AUDIO ALC1220

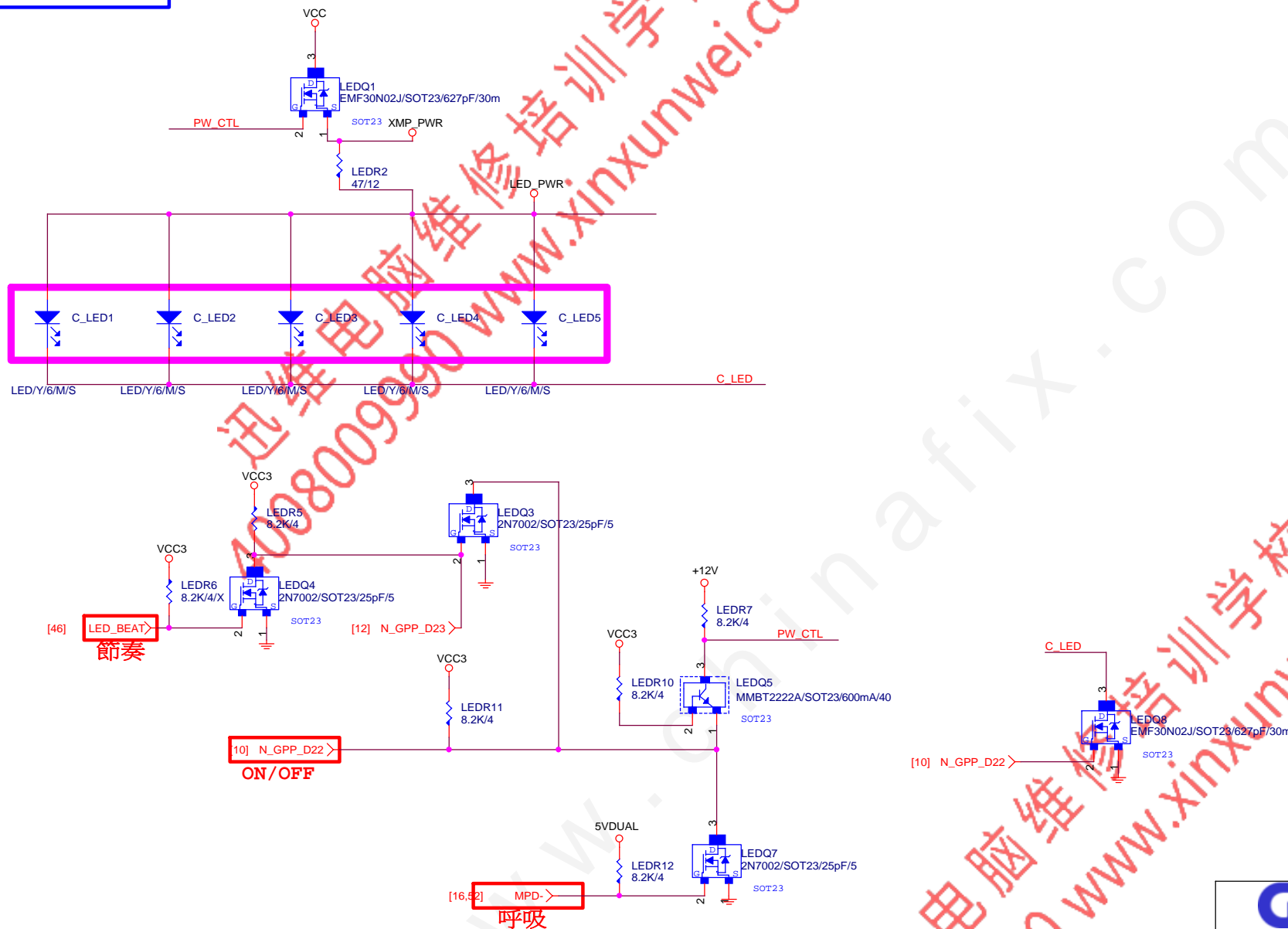
Size Custom Document Number GA-Z270N-WIFI

Rev 1.0

Date: Thursday, November 17, 2016 Sheet 46 of 56

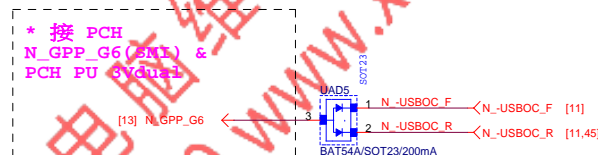
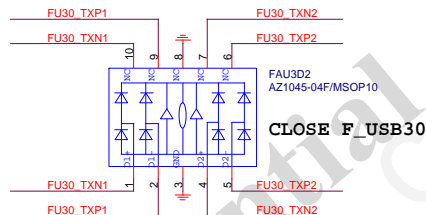
Rev 0.2

www.xinxunwei.com 400-800-9990



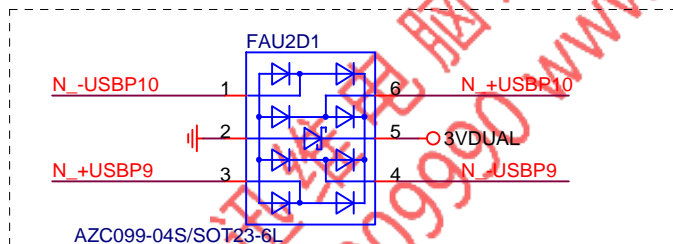
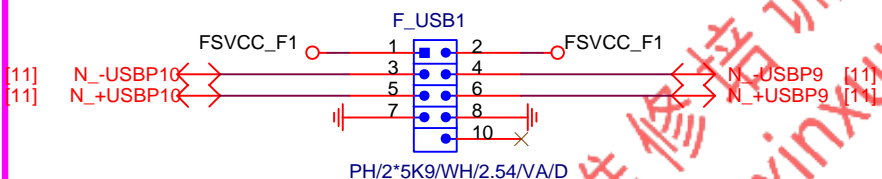
GIGABYTE™			
Title			
Amient Single LED			
Size	Document Number		Rev
Custom	GA-Z270N-WIFI		1.0
Date:	Thursday, November 17, 2016	Sheet	48 of 56

Front USB3.0



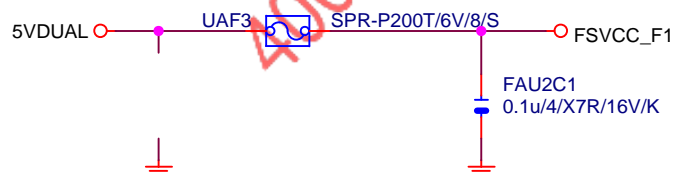
NET 可變

FUSB2X5-HS



Close to connector

FUSE 2 Port 1 Fuse 2A



F_USB 2.0 OC SIGNAL

Gigabyte Technology

Title

USB2.0

Size
A

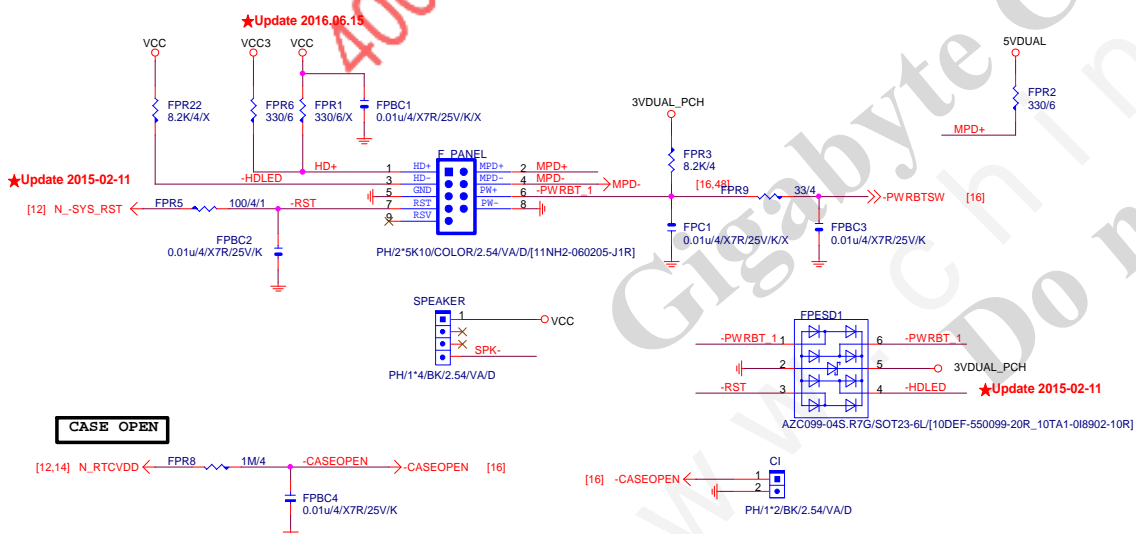
Document Number

GA-Z270N-WIFI

Rev
1.0

Date: Thursday, November 17, 2016

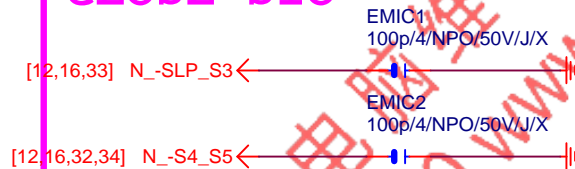
Sheet 51 of 56



<h1 style="text-align: center;">Gigabyte Technology</h1>			
<h2 style="text-align: center;">FRONT PANEL</h2>			
Size Custom	Document Number	GA-Z270N-WIFI	Rev 1.0
Date:	Thursday, November 17, 2016	Sheet 52 of 56	



CLOSE SIO



CLOSE PCH



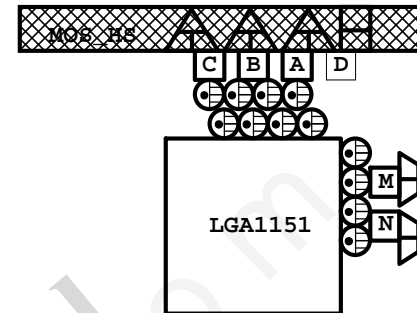
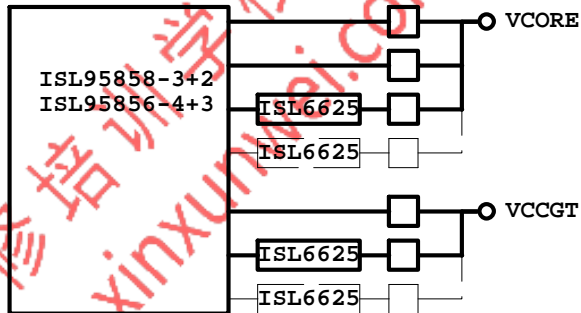
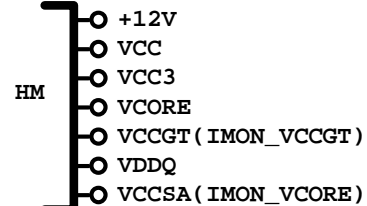
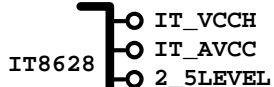
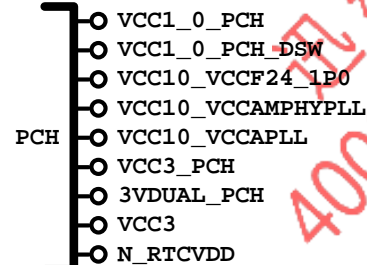
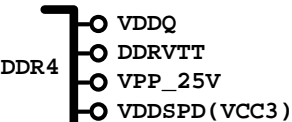
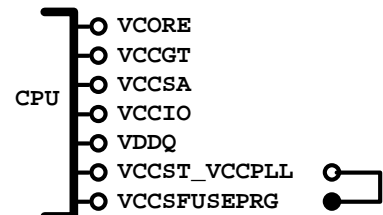
GIGABYTE™

Title		
EM/ESD		
Size A	Document Number	Rev
	GA-Z270N-WIFI	1.0
Date:	Thursday, November 17, 2016	Sheet 54 of 56

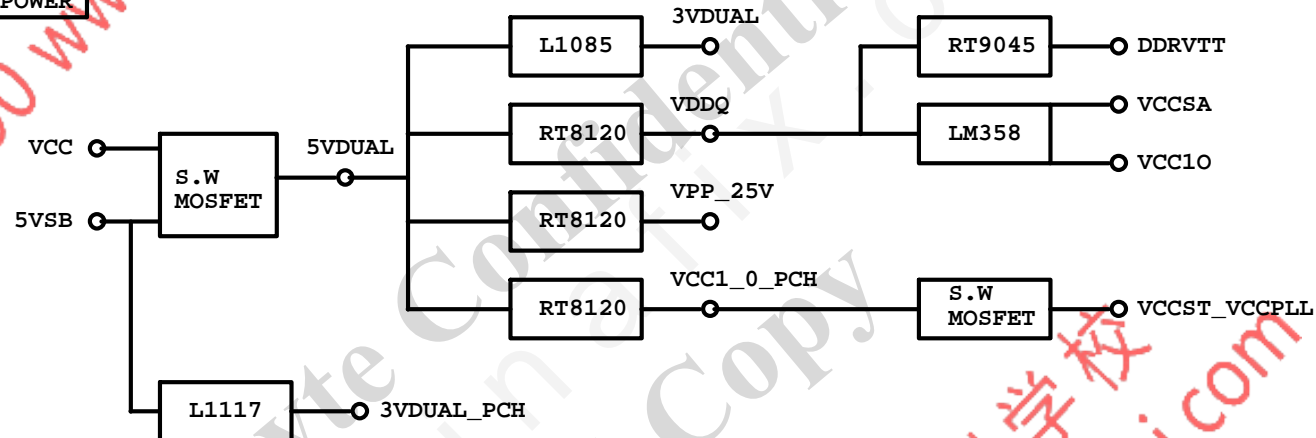
POWER BLOCK MAP

VCORE/VCCGT

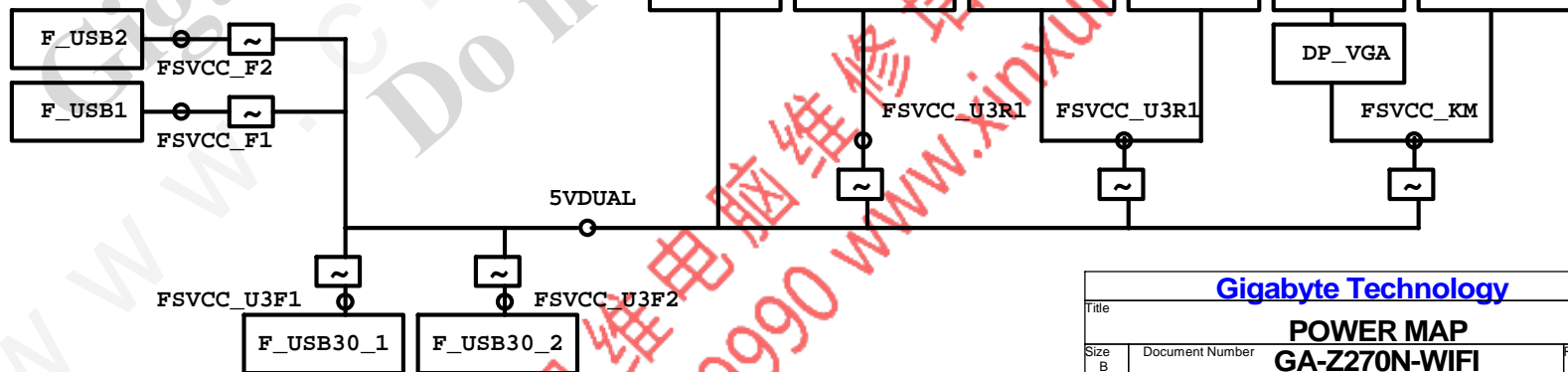
www.xinxunwei.com 400-800-9990



POWER

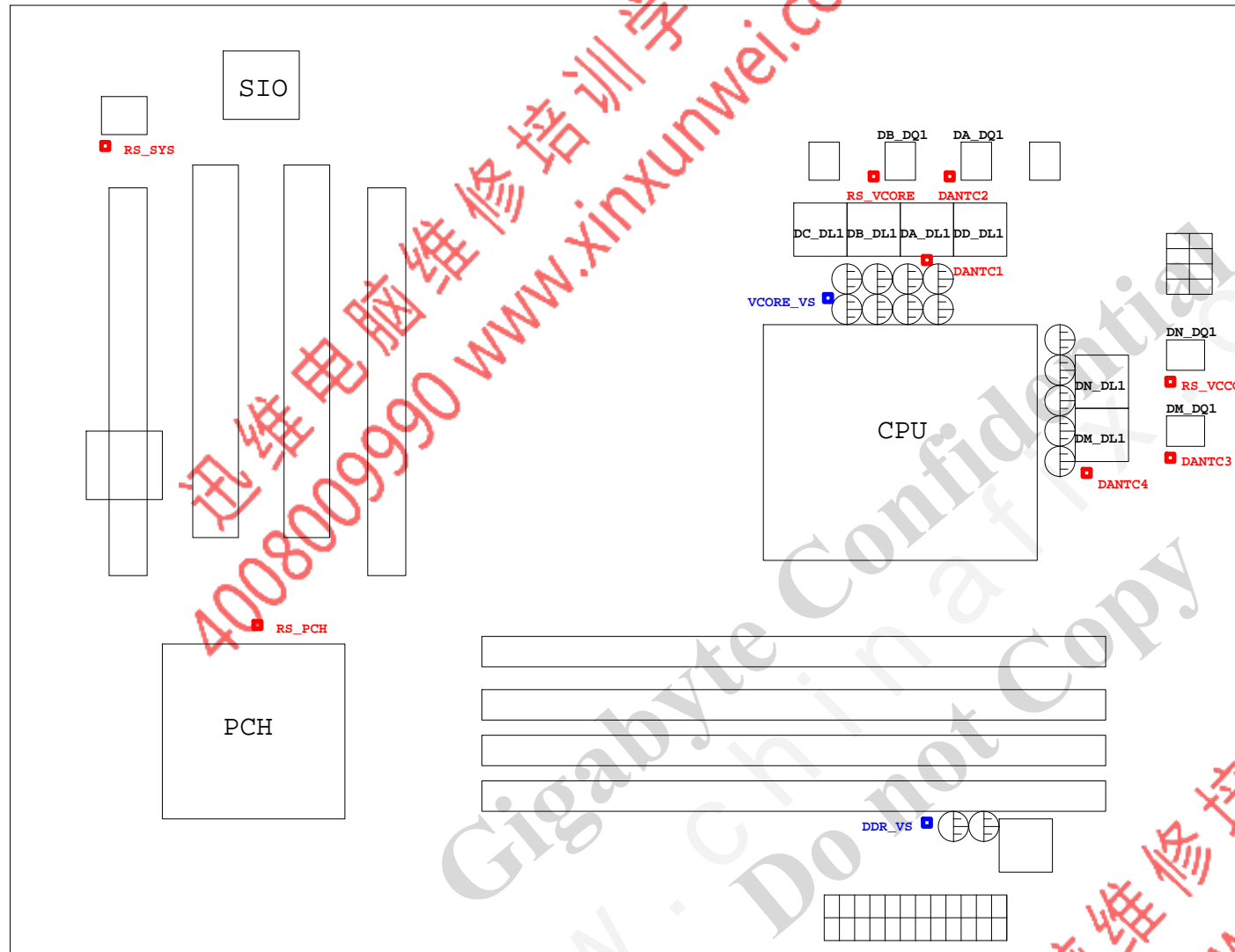


FUSE POWER F/R



Gigabyte Technology

Title		
POWER MAP		
Size	Document Number	Rev
B	GA-Z270N-WIFI	1.0
Date:	Thursday, November 17, 2016	Sheet 55 of 56



熱敏電阻	擺放靠近位置	走線方式
DANTC1	DA_DL1	N/A
DANTC2	DA_DQ1	Differential
DANTC3	DM_DQ1	N/A
DANTC4	DM_DL1	Differential
RS_VCORE	DB_DQ1	N/A
RS_VCCGT	DN_DQ1	N/A
RS_PCH	PCH	N/A
RS_SYS	CU1	N/A