

Model Name: GA-B250M-DS3H

rev 1.0

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

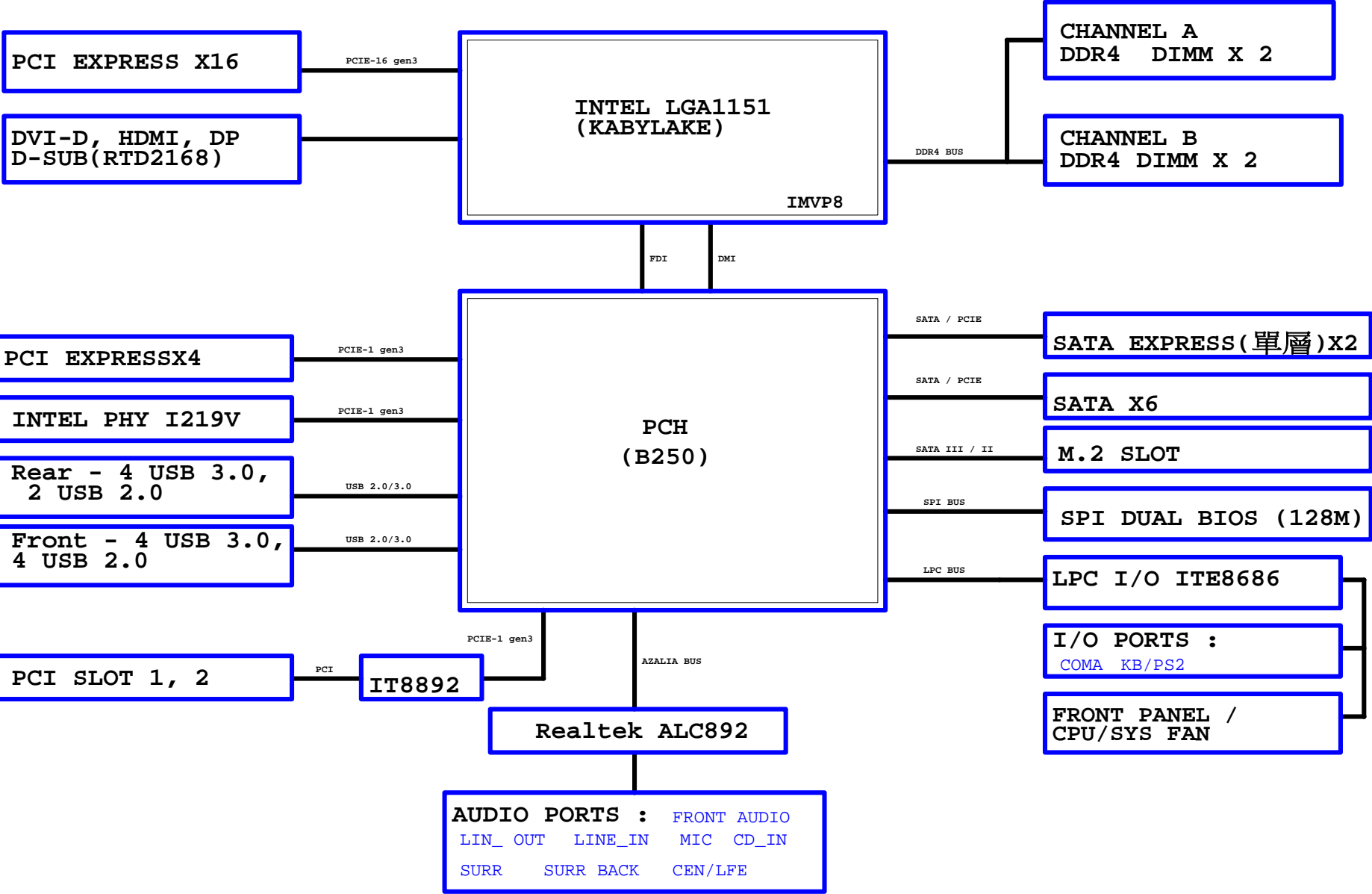
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Size	Document Number	GA-B250M-DS3H	
Custom			Rev 1.0
Date:	Monday, December 12, 2016	Sheet 1	of 56

Circuit or PCB layout change

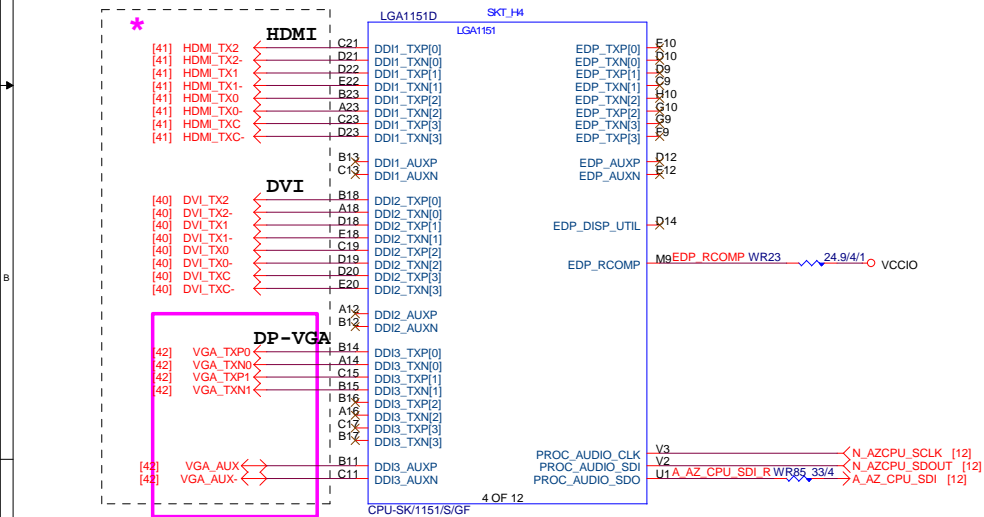
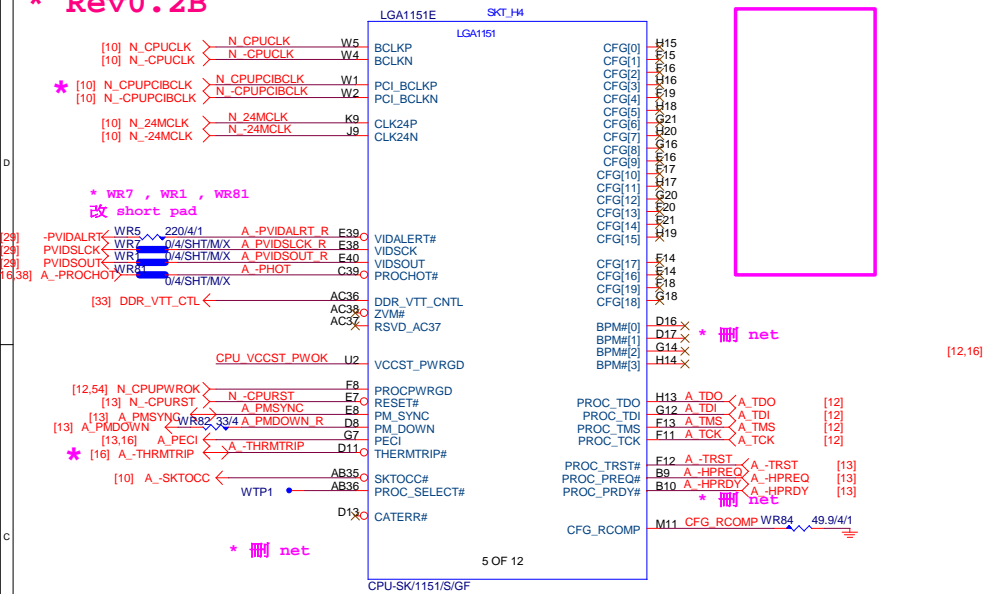
2016/09/22

[illegible]

BLOCK DIAGRAM



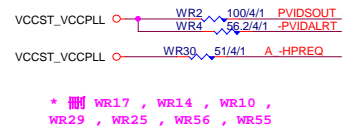
*** Rev0.2B**



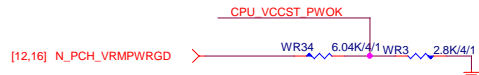
```
G-15u : (CPU-SK/1151/S/15)
10SC1-F01151-11R / 10SC1-F01151-12R
G-FL : (CPU-SK/1151/S/GF)
10SC1-F01151-21R / 10SC1-F01151-22R
```

```
4 layer HDMI/DP/eDP/=====4/4/4//15
6 layer HDMI/DP/eDP/=====4/5.5/4//15
```

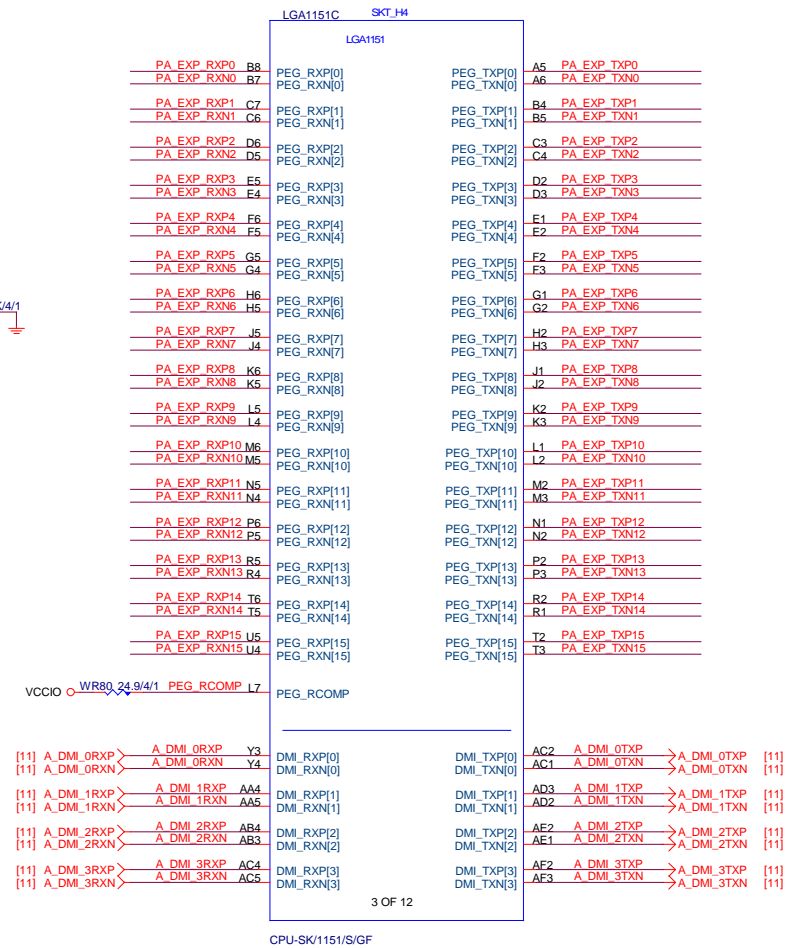
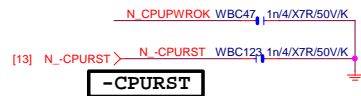
Impedance=85 +- 15%



* 删除 WR91



```
*  net N_CPU_VCCST_PWOK
```



[11]	A DMI_0RXP	A DMI_0RXP	Y3	DMI_RXP[0]	DMI_TXP[0]	AC2	A DMI_0TXP	A DMI_0TXP	[11]
[11]	A DMI_0RXN	A DMI_0RXN	Y4	DMI_RXN[0]	DMI_TXN[0]	AC1	A DMI_0TXN	A DMI_0TXN	[11]
[11]	A DMI_1RXP	A DMI_1RXP	AA4	DMI_RXP[1]	DMI_TXP[1]	AD3	A DMI_1TXP	A DMI_1TXP	[11]
[11]	A DMI_1RXN	A DMI_1RXN	AA5	DMI_RXN[1]	DMI_TXN[1]	AD2	A DMI_1TXN	A DMI_1TXN	[11]
[11]	A DMI_2RXP	A DMI_2RXP	AB4	DMI_RXP[2]	DMI_TXP[2]	AE2	A DMI_2TXP	A DMI_2TXP	[11]
[11]	A DMI_2RXN	A DMI_2RXN	AB3	DMI_RXN[2]	DMI_TXN[2]	AE1	A DMI_2TXN	A DMI_2TXN	[11]
[11]	A DMI_3RXP	A DMI_3RXP	AC4	DMI_RXP[3]	DMI_TXP[3]	AF2	A DMI_3TXP	A DMI_3TXP	[11]
[11]	A DMI_3RXN	A DMI_3RXN	AC5	DMI_RXN[3]	DMI_TXN[3]	AF3	A DMI_3TXN	A DMI_3TXN	[11]

PA_EXP_TXP[0..15] >> PA_EXP_TXP[0..15] [19]
PA_EXP_TXN[0..15] >> PA_EXP_TXN[0..15] [19]
PA_EXP_RXP[0..15] >> PA_EXP_RXP[0..15] [19]
PA_EXP_RXN[0..15] >> PA_EXP_RXN[0..15] [19]

```
4 layer PEG/DMI=====4/4/4//15
6 layer PEG/DMI=====4/5.5/4//15
```

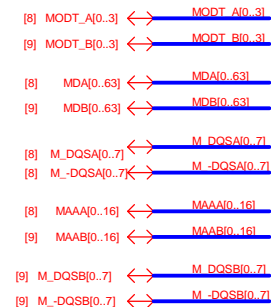
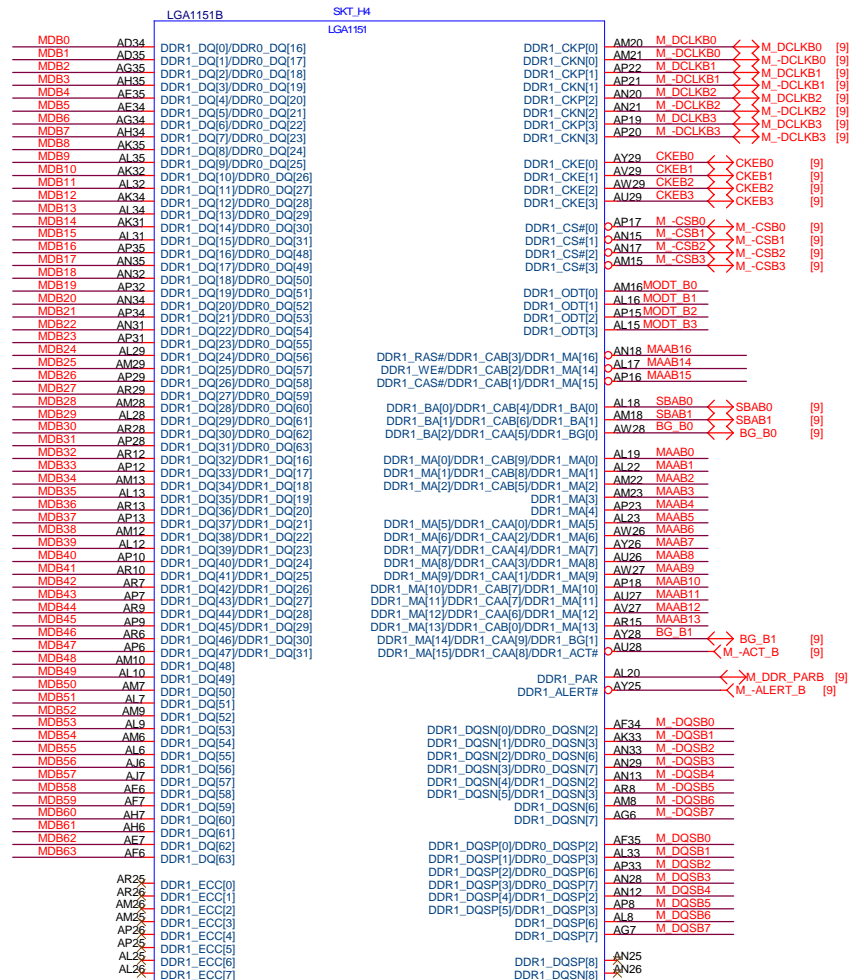
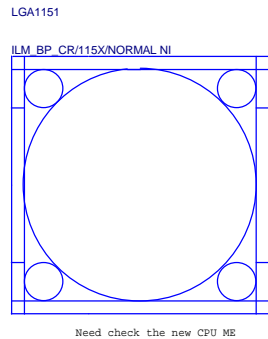
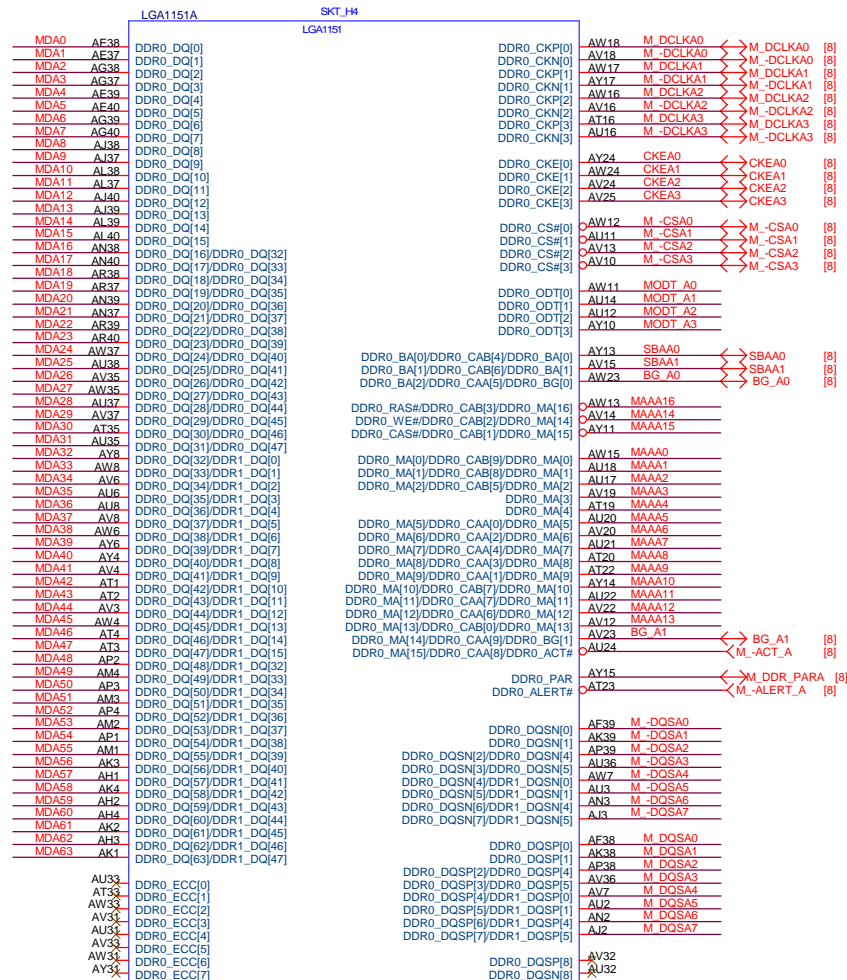
Impedance=85 +- 15%

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

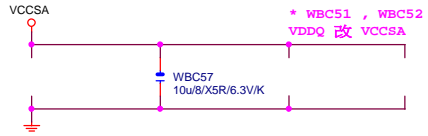
for BIOS			
Bifurcation Config.	Signals Lanes		
	CFG[6]	CFG[5]	CFG[2]
1x16	1	1	1
1x16 Reversed	1	1	0
2x8	1	0	1
2x8 Reversed	1	0	0
1x8+2x4	0	0	1
1x8+2x4 Reversed	0	0	0

<i>Gigabyte Technology</i>			
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CPU LGA1151-A			
Size Custom	Document Number		Rev
	GA-B250M-DS3H		1.0
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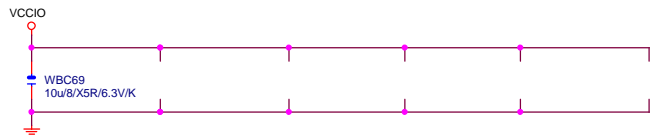
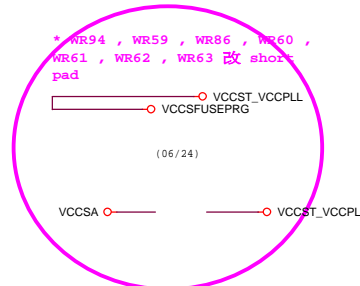
* 改DDR4 net



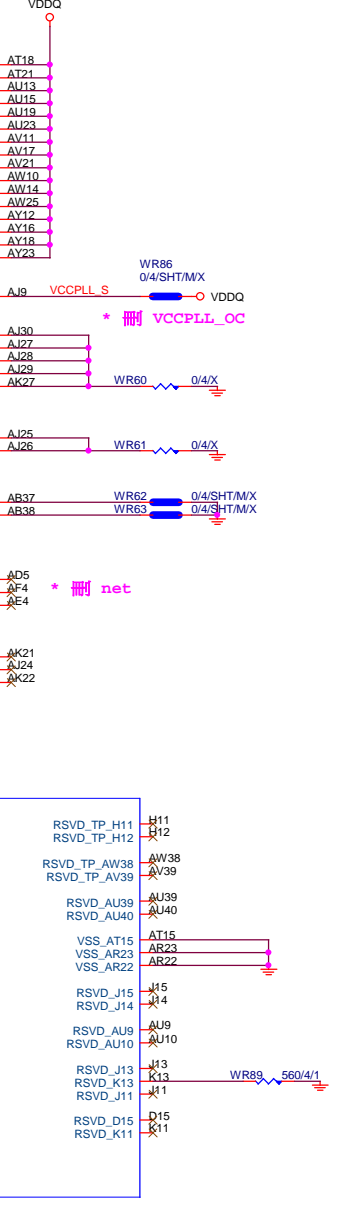
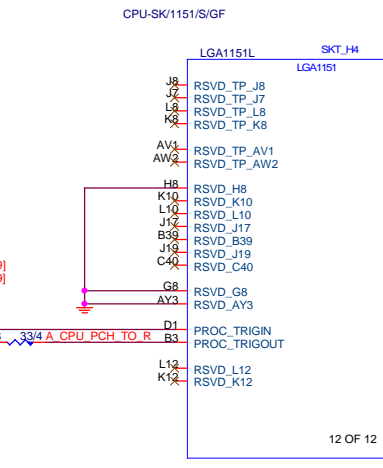
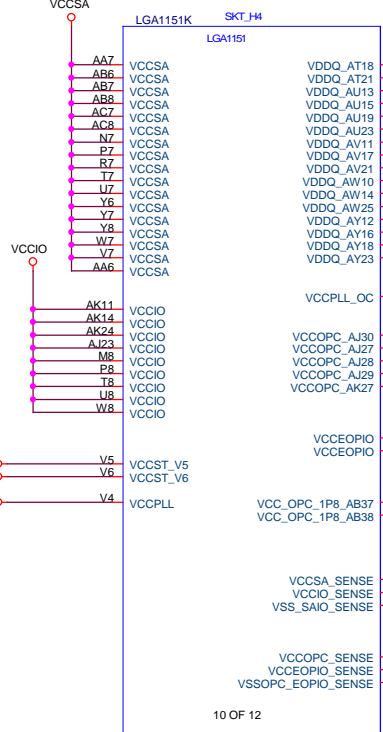
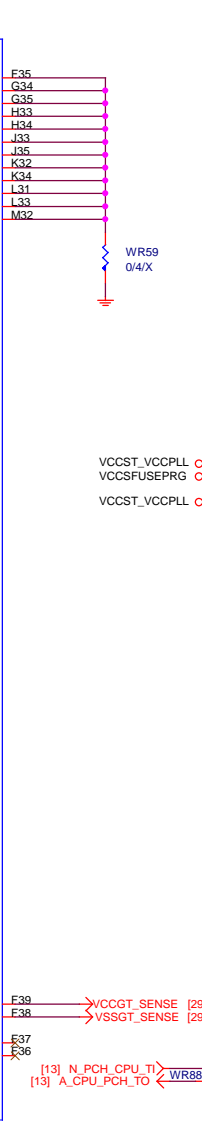
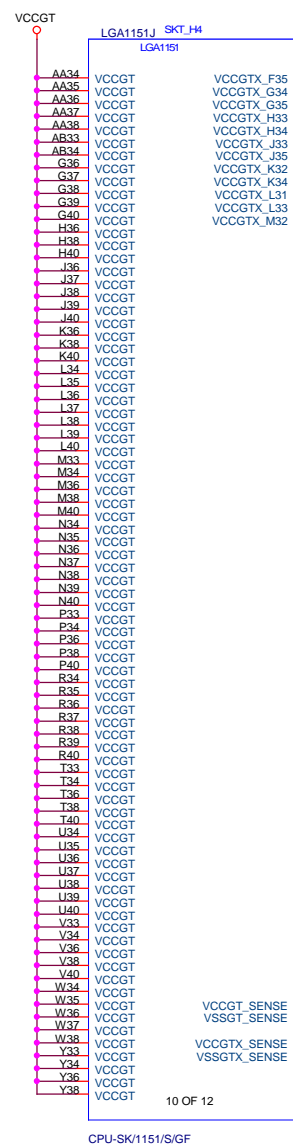
* 刪 WBC50 電容

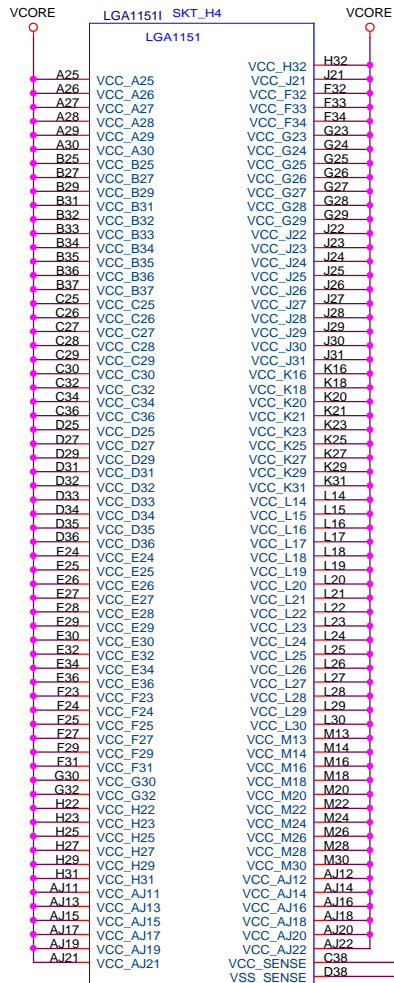


* 刪 WBC124 , WBC125 , WBC126 , WBC127 電容

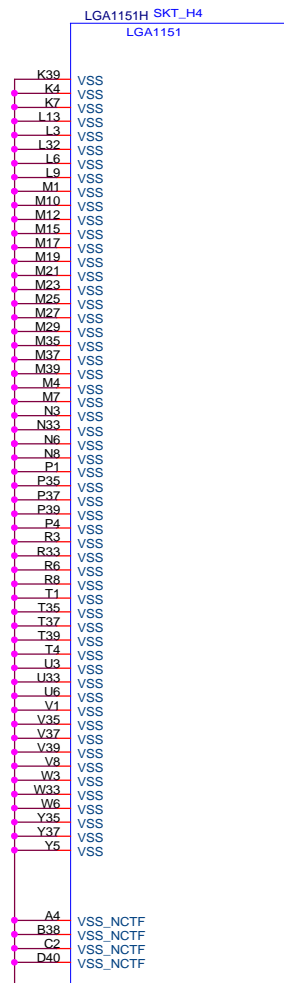
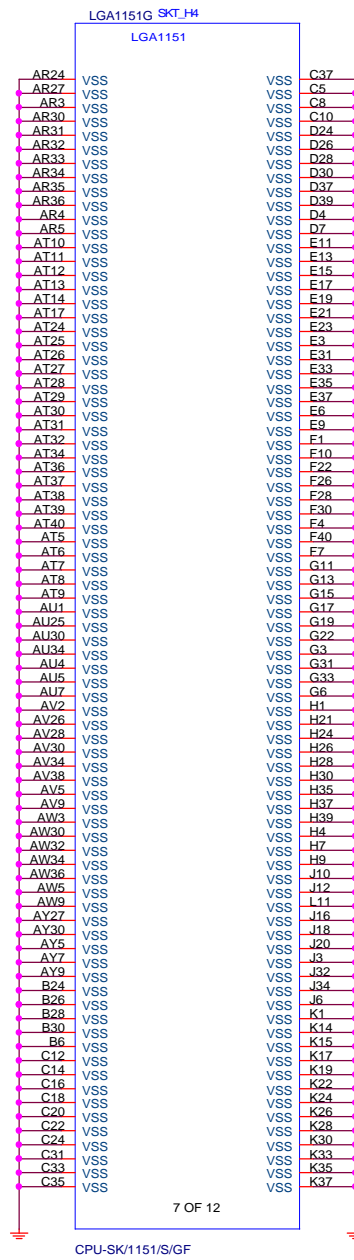
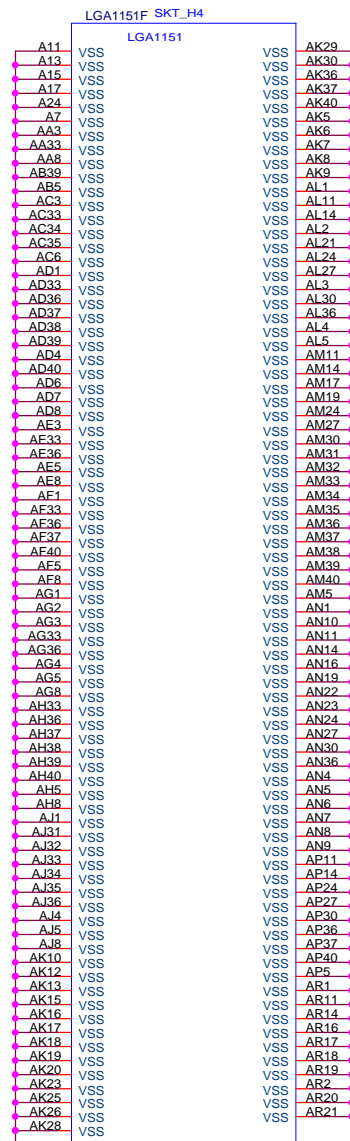


* 刪 VCCGT 電容





* 刪 Vcore 電容



Rev:0.6

DDR4_3

DDR4_1

DDR4_2

DDR4_4

DDR4_5

DDR4_6

DDR4_7

DDR4_8

DDR4_9

DDR4_10

DDR4_11

DDR4_12

DDR4_13

DDR4_14

DDR4_15

DDR4_16

DDR4_17

DDR4_18

DDR4_19

DDR4_20

DDR4_21

DDR4_22

DDR4_23

DDR4_24

DDR4_25

DDR4_26

DDR4_27

DDR4_28

DDR4_29

DDR4_30

DDR4_31

DDR4_32

DDR4_33

DDR4_34

DDR4_35

DDR4_36

DDR4_37

DDR4_38

DDR4_39

DDR4_40

DDR4_41

DDR4_42

DDR4_43

DDR4_44

DDR4_45

DDR4_46

DDR4_47

DDR4_48

DDR4_49

DDR4_50

DDR4_51

DDR4_52

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DDR4_56

DDR4_57

DDR4_58

DDR4_59

DDR4_60

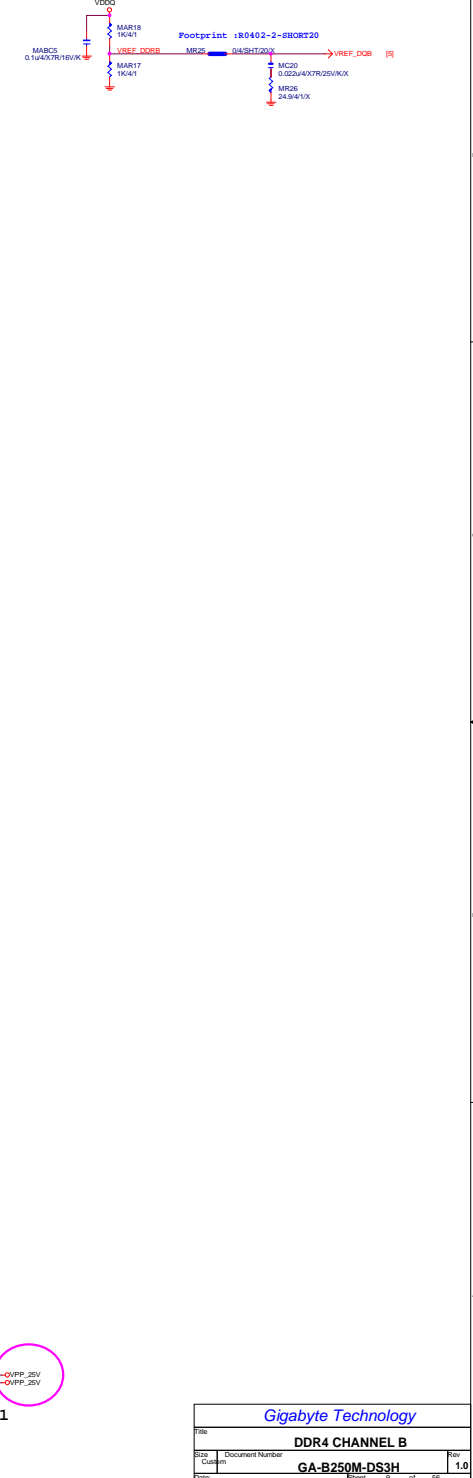
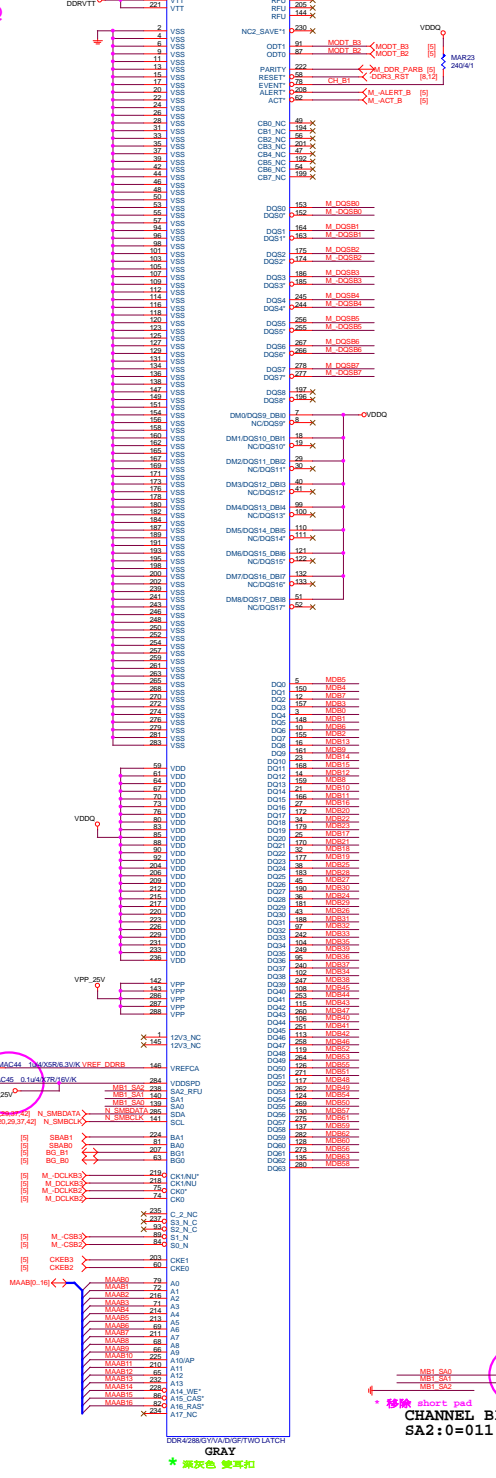
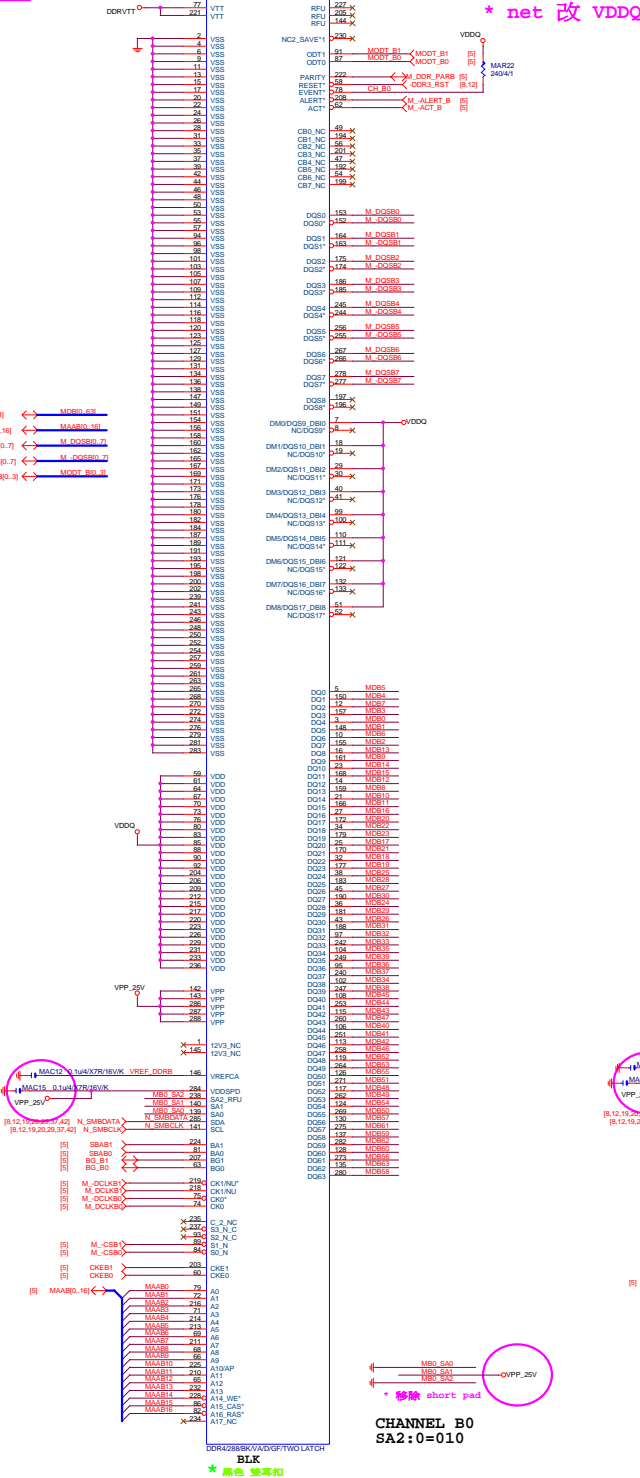
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DDR4_62

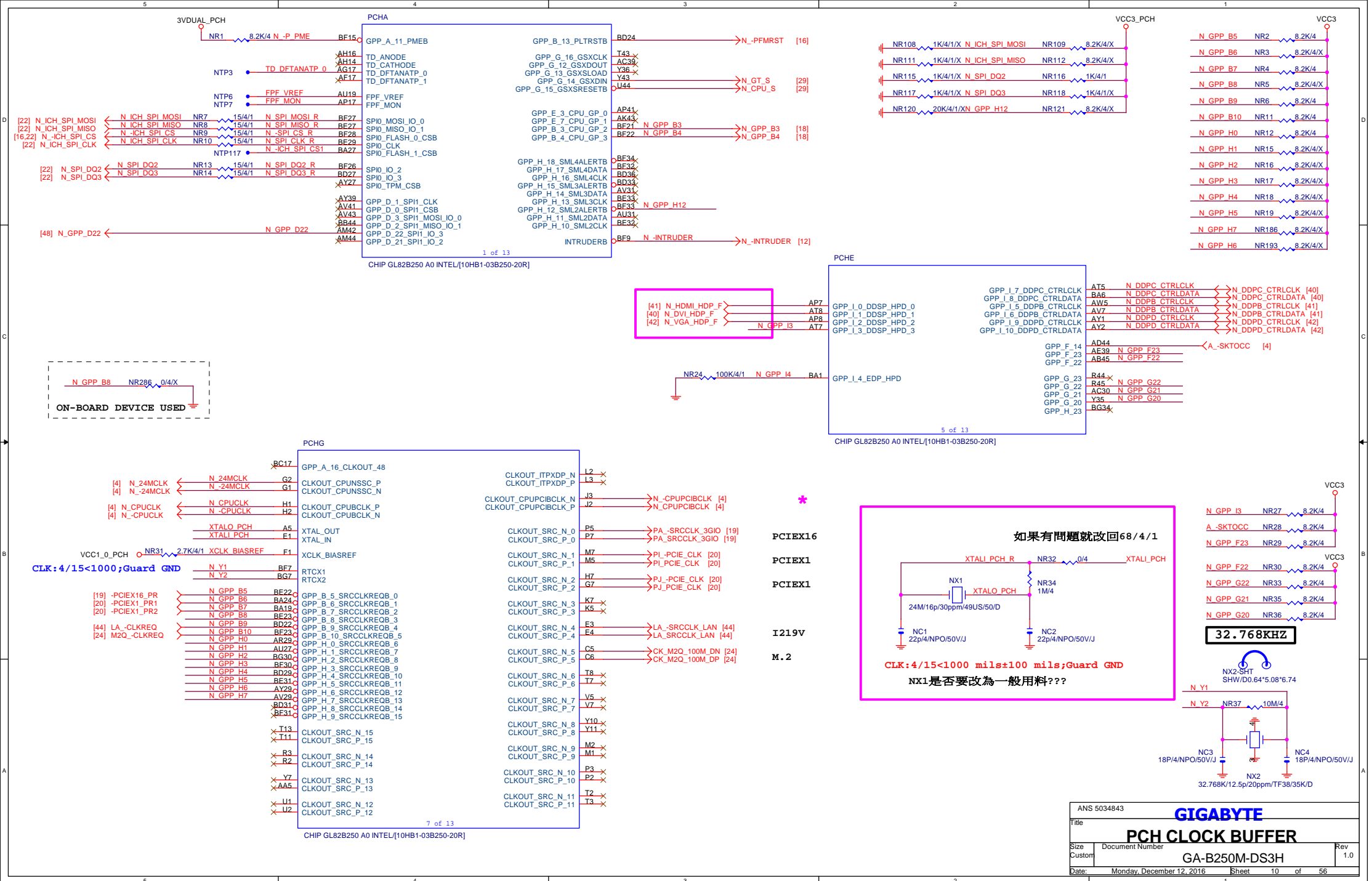
DDR4_63

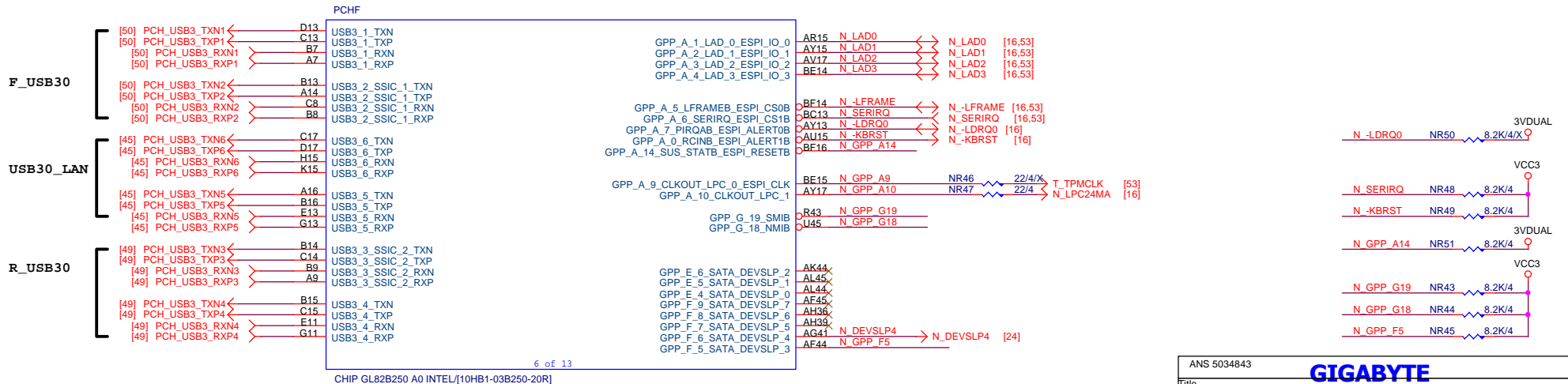
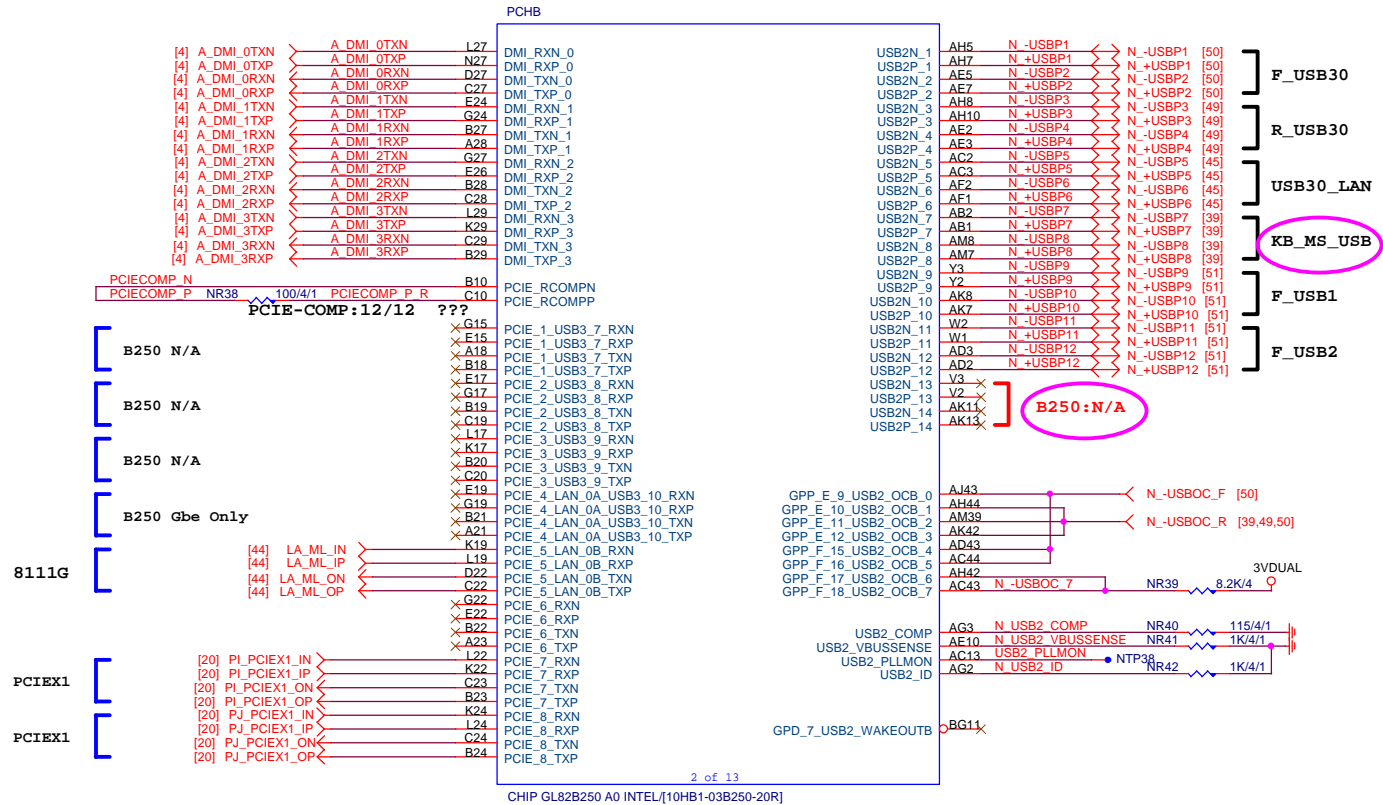
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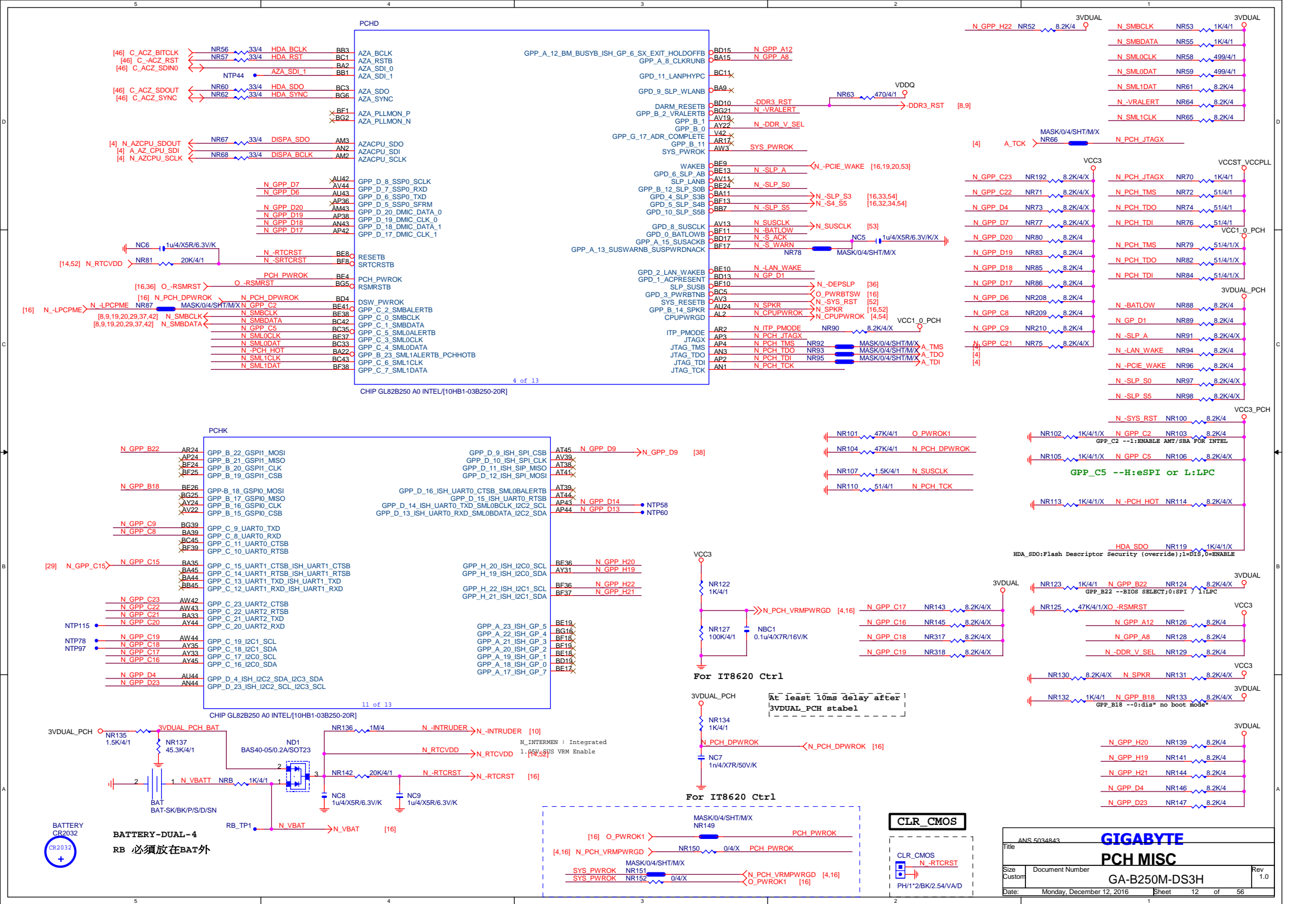
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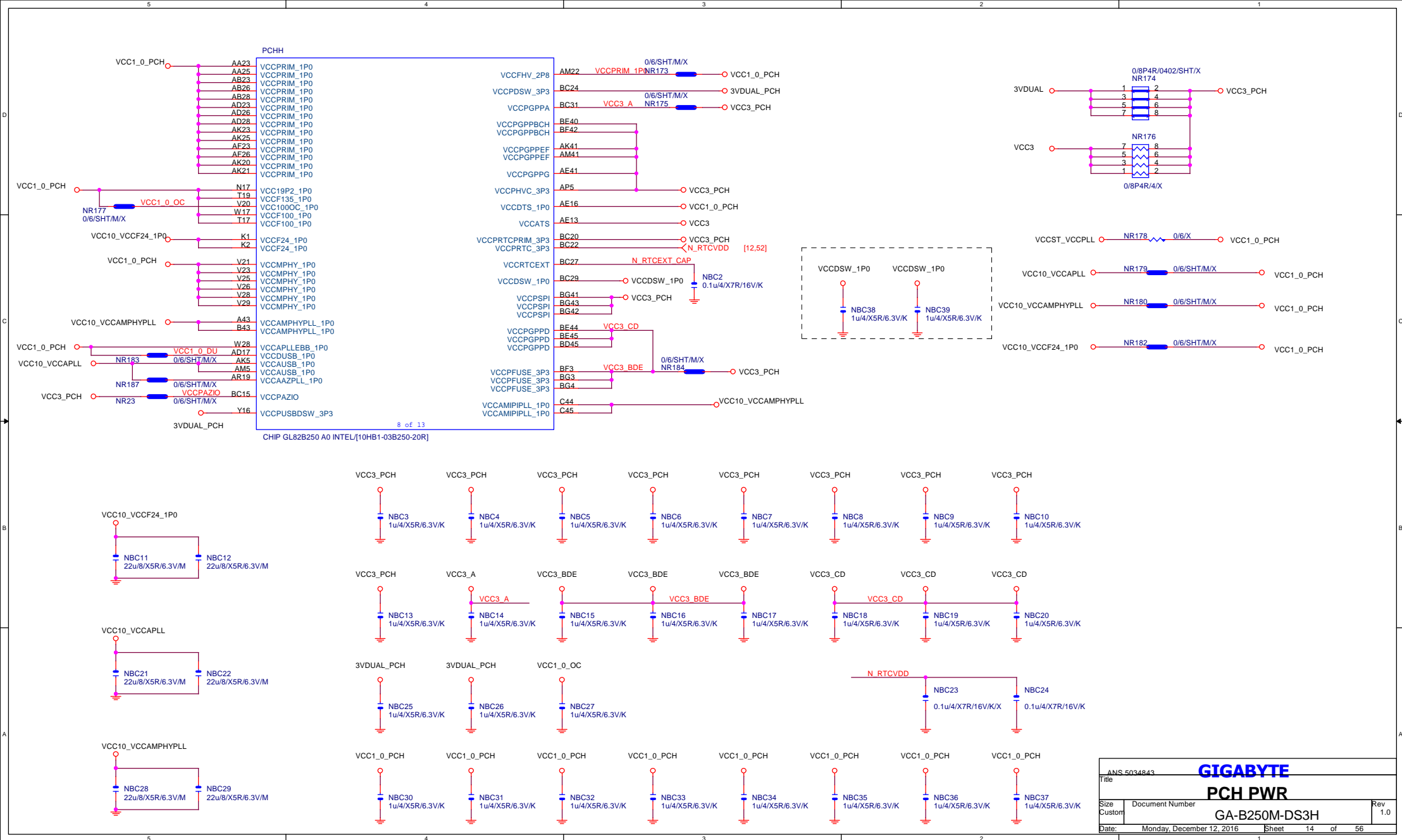


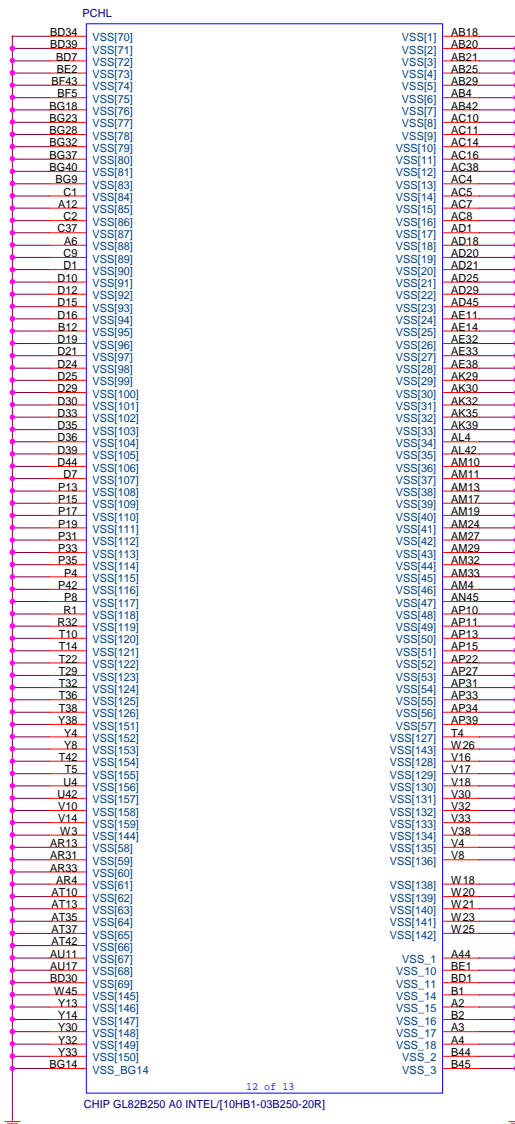
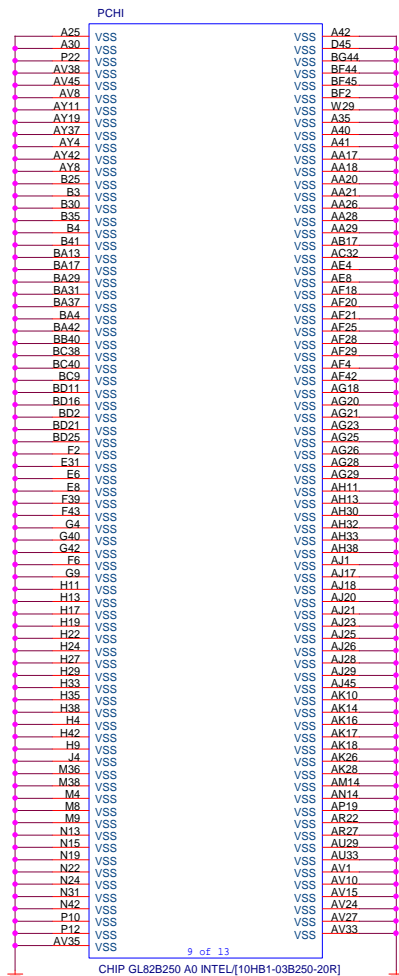
Gigabyte Technology		
DDR4 CHANNEL B		
Size	Document Number	Rev
Count	GA-B25QM-DS3H	1.0
Date		



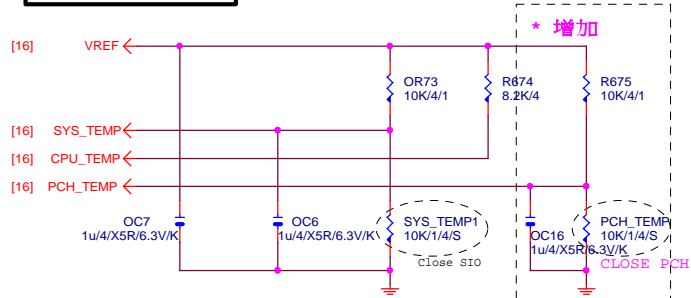




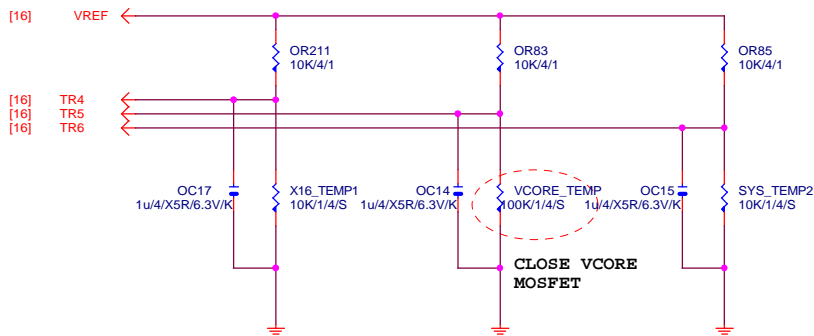




TEMP H/W MONITOR

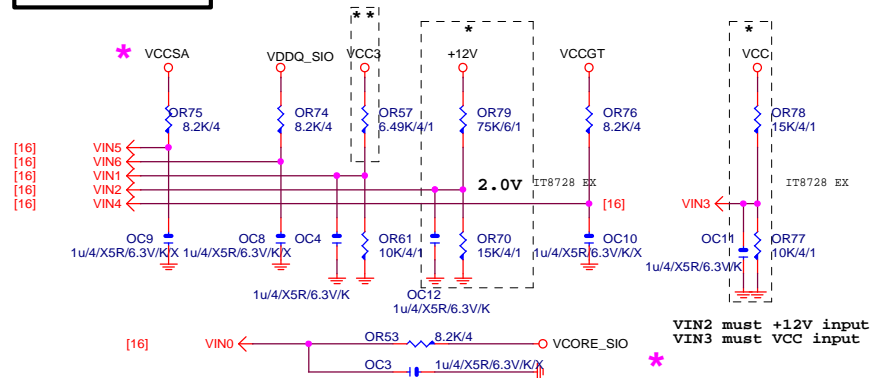


5個FAN時使用

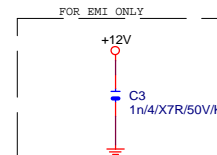
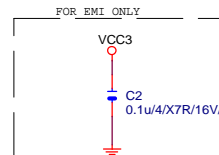


VOLTAGE-- H/W MONITOR

* IT8728 BX
** IT8728 CX



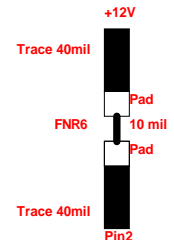
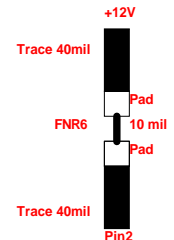
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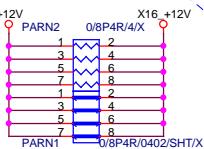
Gigabyte Technology

Title			HWM,KB/MS, FAN CTRL
Size	Document Number		Rev
Custom	GA-B250M-DS3H		1.0
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Rev: 0.8



Rev 0.2

+12V_protect
short-wire test[8,9,12,20,29,37,42] N_SMBCLK
[8,9,12,20,29,37,42] N_SMBDATA

[12,16,20,53] N_-PCIE_WAKE

[10] -PCIE16_PR

PA_EXP_RXP0..15] >> PA_EXP_RXP[0..15] [4]
 PA_EXP_RXN0..15] >> PA_EXP_RXN[0..15] [4]
 PA_EXP_TXP0..15] >> PA_EXP_TXP[0..15] [4]
 PA_EXP_TXN0..15] >> PA_EXP_TXN[0..15] [4]

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	PAC21	0.22u/4/X5R/6.3V/K	PA_EXP_TXP8 C
PA_EXP_TXN8	PAC20	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

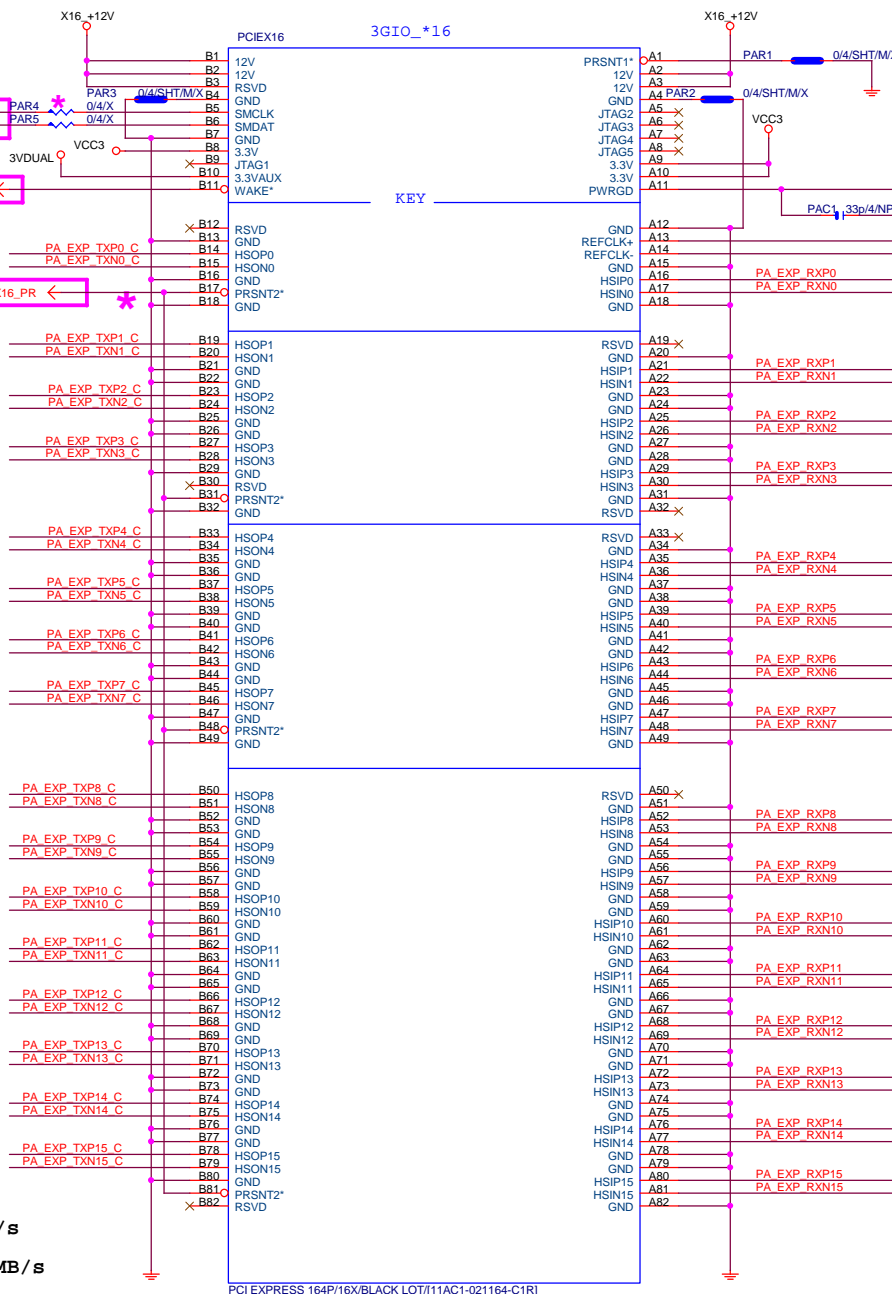
PCE-E X1(單向) BANDWIDTH=2.5GHz*(8b/10b)=2Gb/s=250MB/s

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

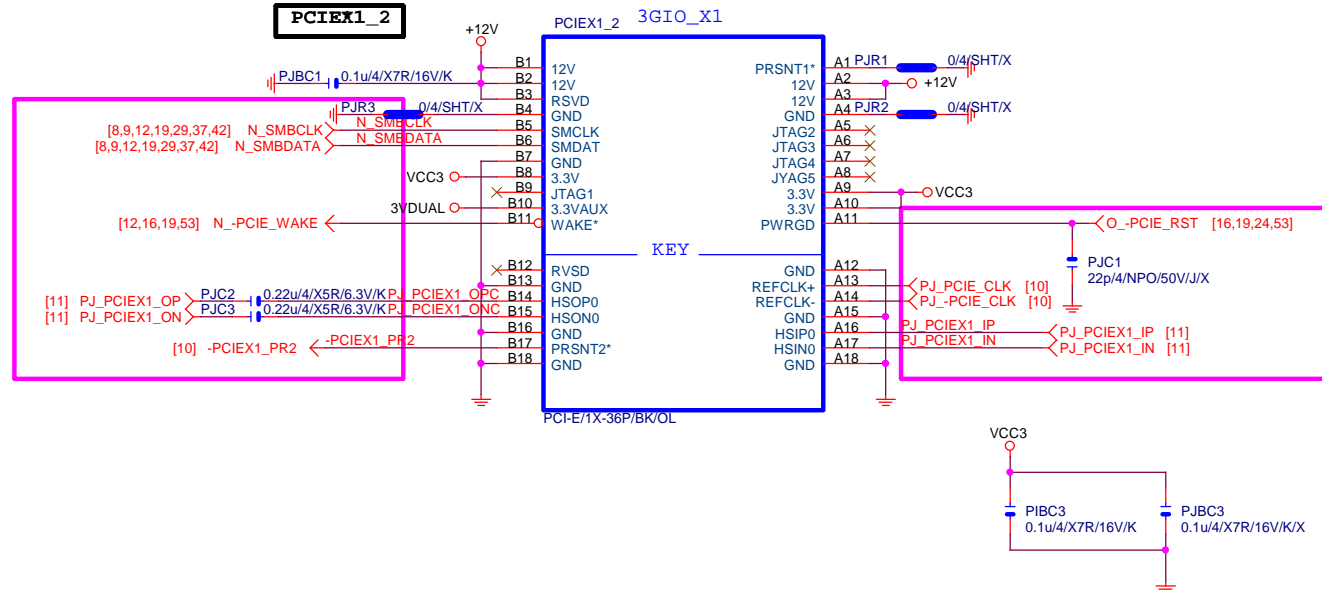
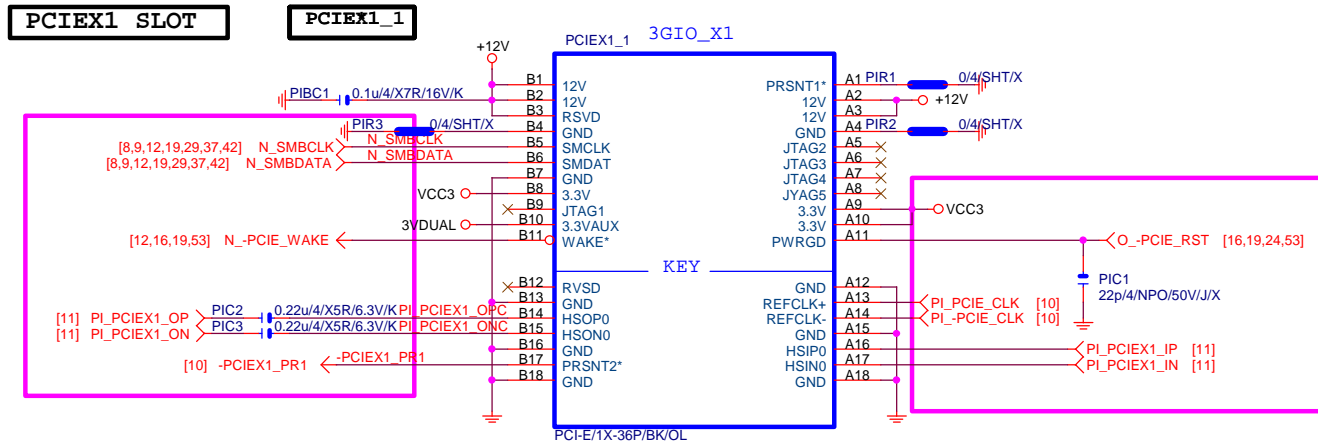
PCI-E REV:2.0--> 5GHZ



PCIESLOT-164P

左板料號 & Footprint

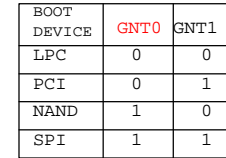
Gigabyte Technology		
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PCI EXPRESS * 16		
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Date:	Monday, December 12, 2016	Sheet 19 of 56



Gigabyte Technology

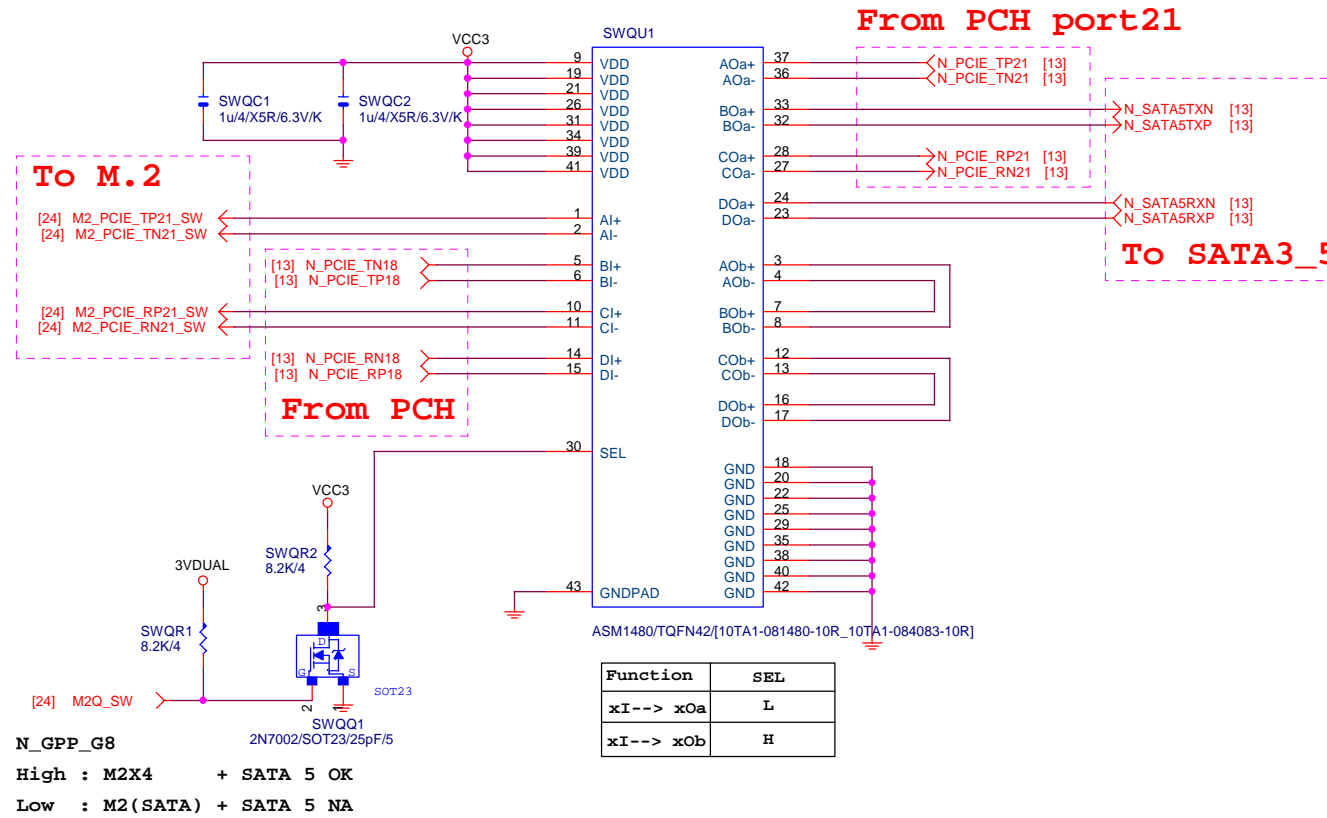
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Size	Document Number	Rev
Custom	GA-B250M-DS3H	1.0
Date:	Monday, December 12, 2016	Sheet 20 of 56

MOSI For DMI RX Termination Voltage

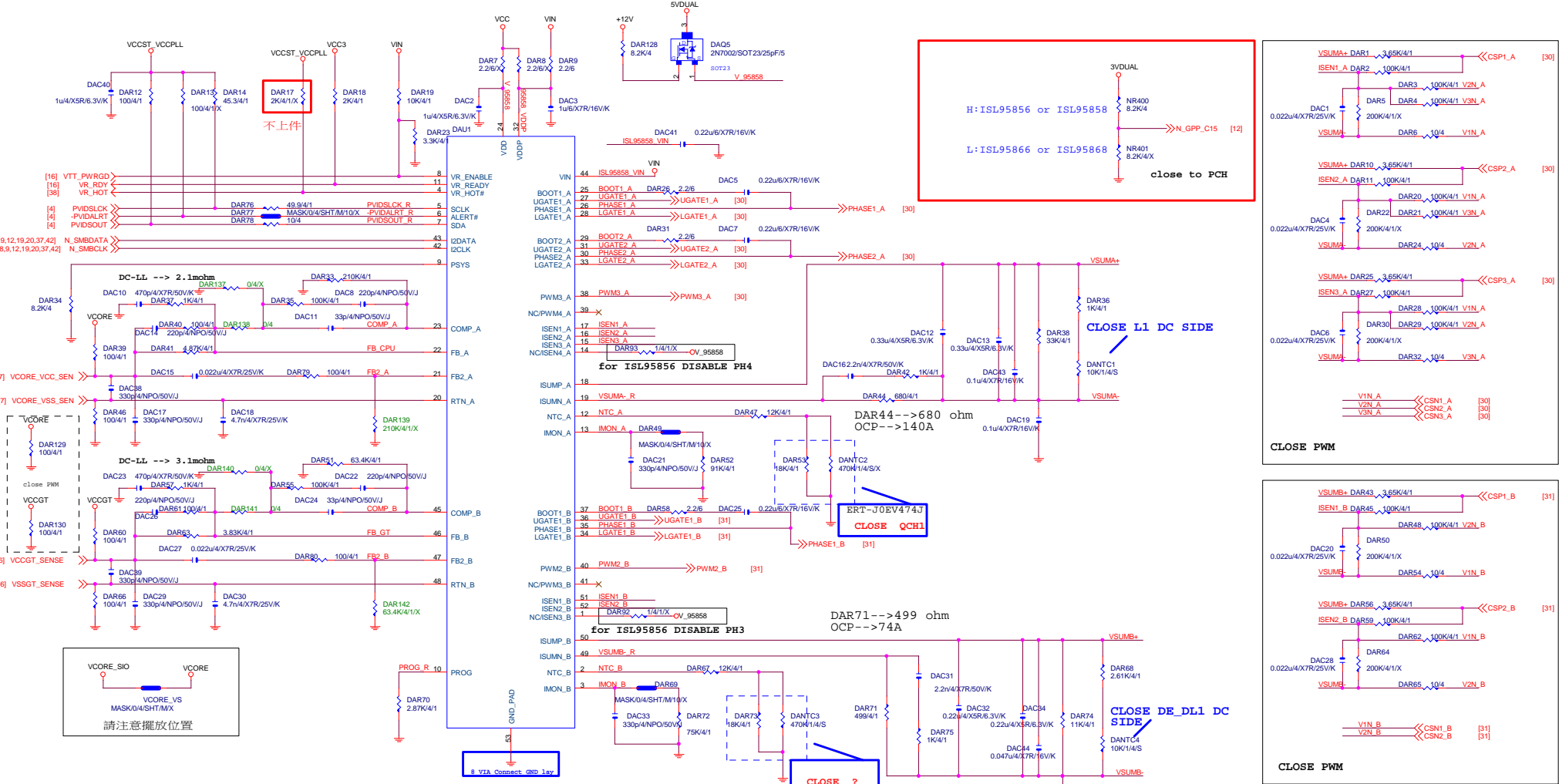


* 試產先上，PVT 移除

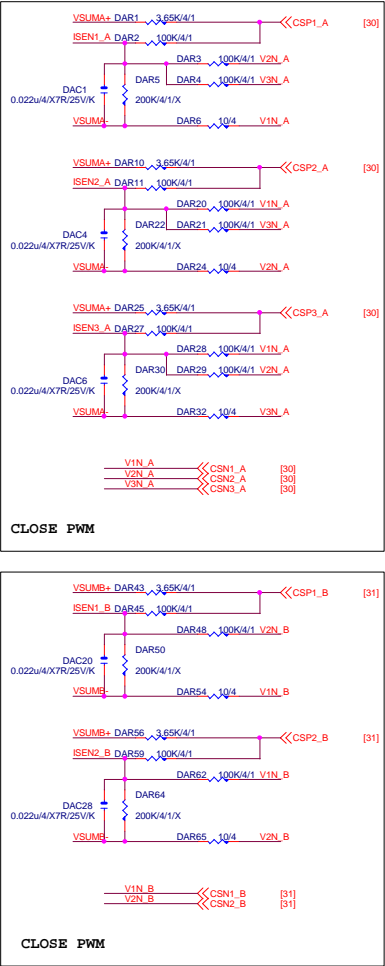
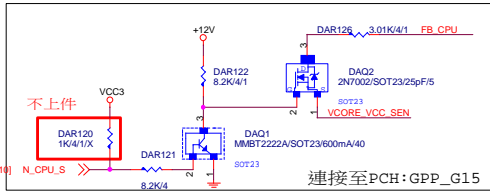
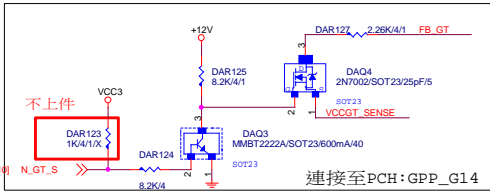
舊的Switch,價格低



Function	SEL
xI--> xOa	L
xI--> xOb	H

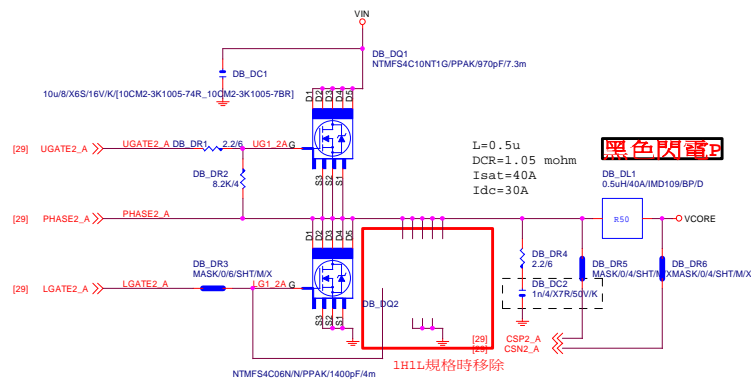
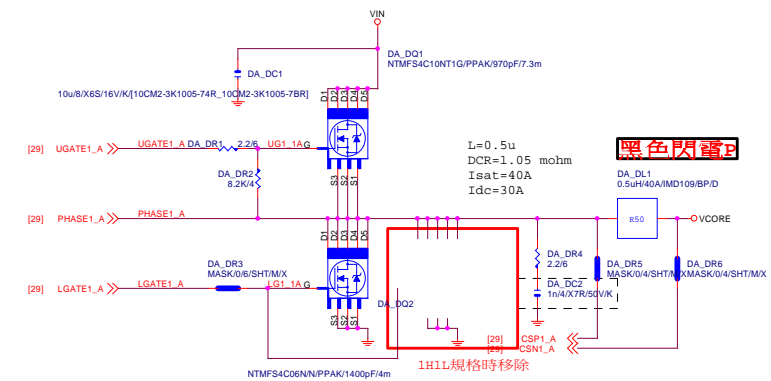


VCORE	ISL95858	ISL95868	VCCGT	ISL95858	ISL95868
DAR137	X	V	DAR140	X	V
DAR138	V	X	DAR141	V	X
DAR139	X	V	DAR142	X	V
DAC15	V	X	DAC27	V	X
DAR79	V	X	DAR80	V	X
DAR33	V	X	DAR51	V	X

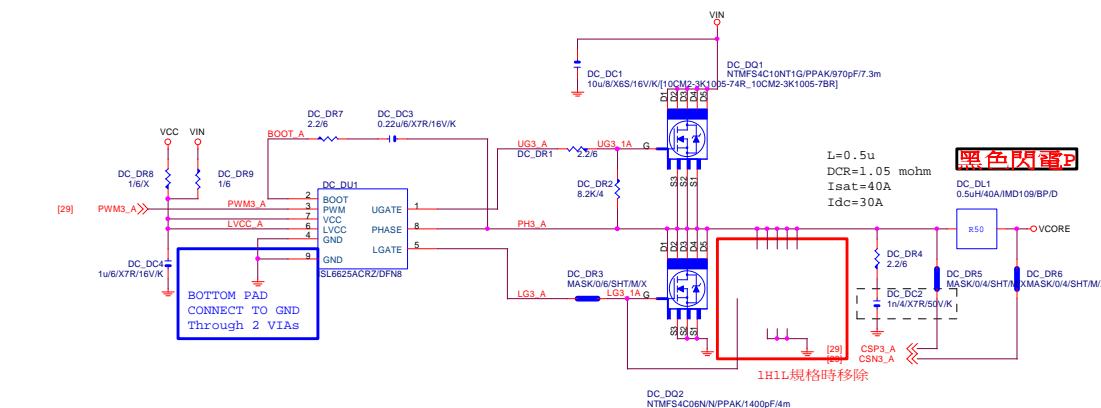
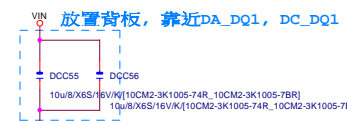
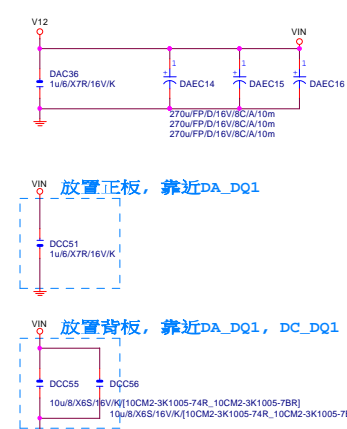


REV:0.1

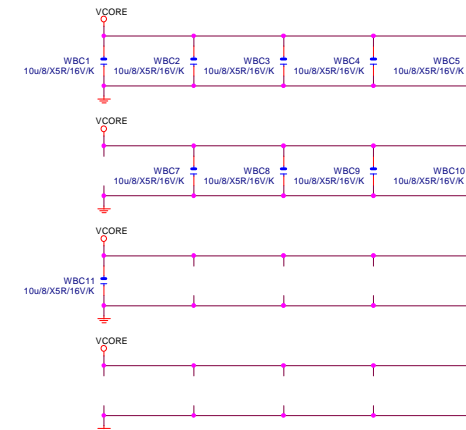
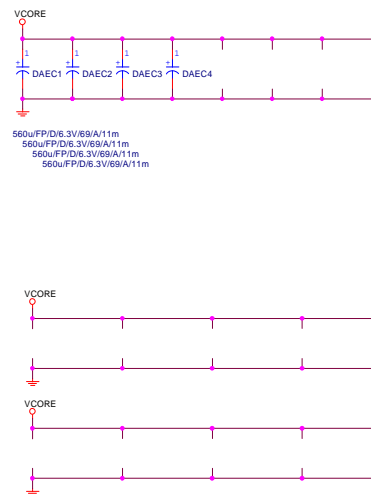
VCORE



VIN CAP 270u*3PCS



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



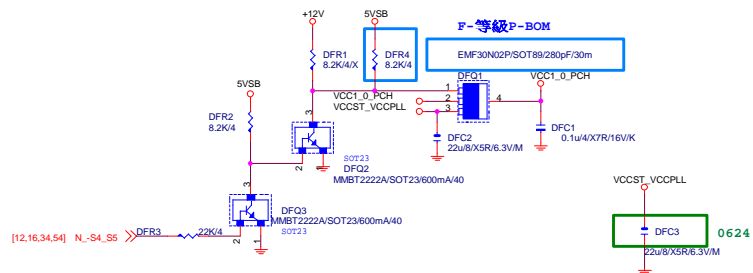
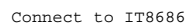
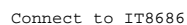
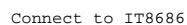
GIGABYTE™

Title		
ISL95868_MOS		
Size	Document Number	Rev
Custom	GA-B250M-DS3H	1.0
Date	Monday, December 12, 2016	Sheet 30 of 56

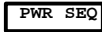


8





DDR4

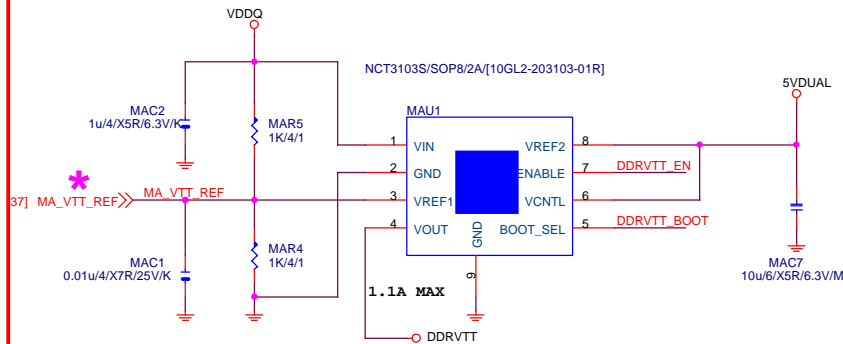


For power sequence require

VPP_25V使用8120時上件

MAU1上RT9045時上件(不可MASK)
MA VTT RE

DDRVTT



DDRVTT CAP

* 大電容 x0

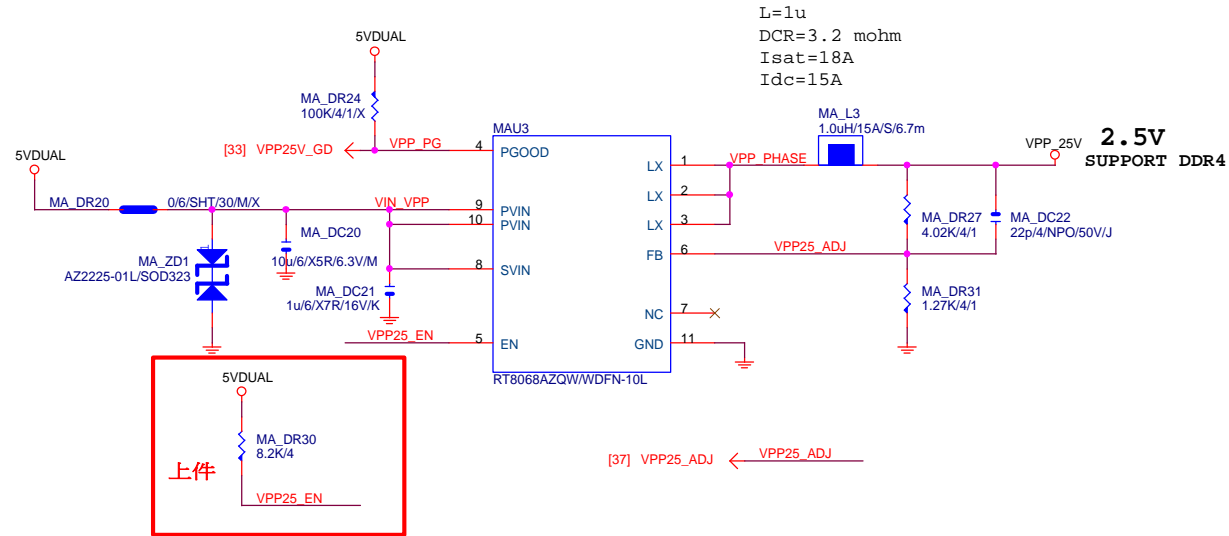
GIGABYTE

Title			
RT8237_DDR4 POWER			
Size	Document Number	Rev	
Custom	GA-B250M-DS3H	1.0	
Date:	Monday, December 12, 2016	Sheet	33 of 56

REV:0.1

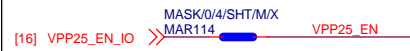
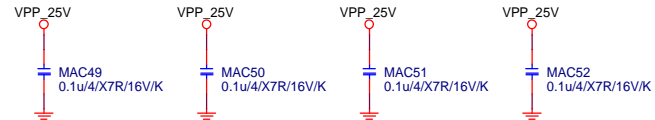
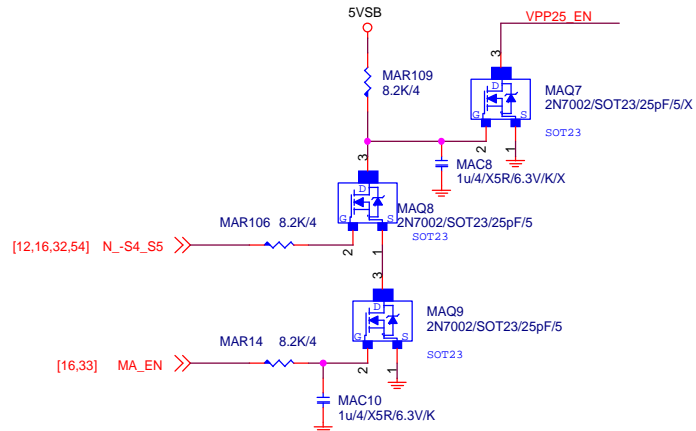
VPP_25V

CHOKER與CAP料號可變



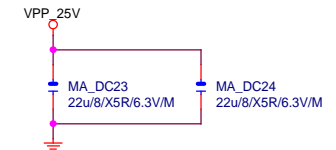
PWR_SEQ

* 刪 MA_DR32



VPP CAP 22u*1PCS

* 大電容 x0

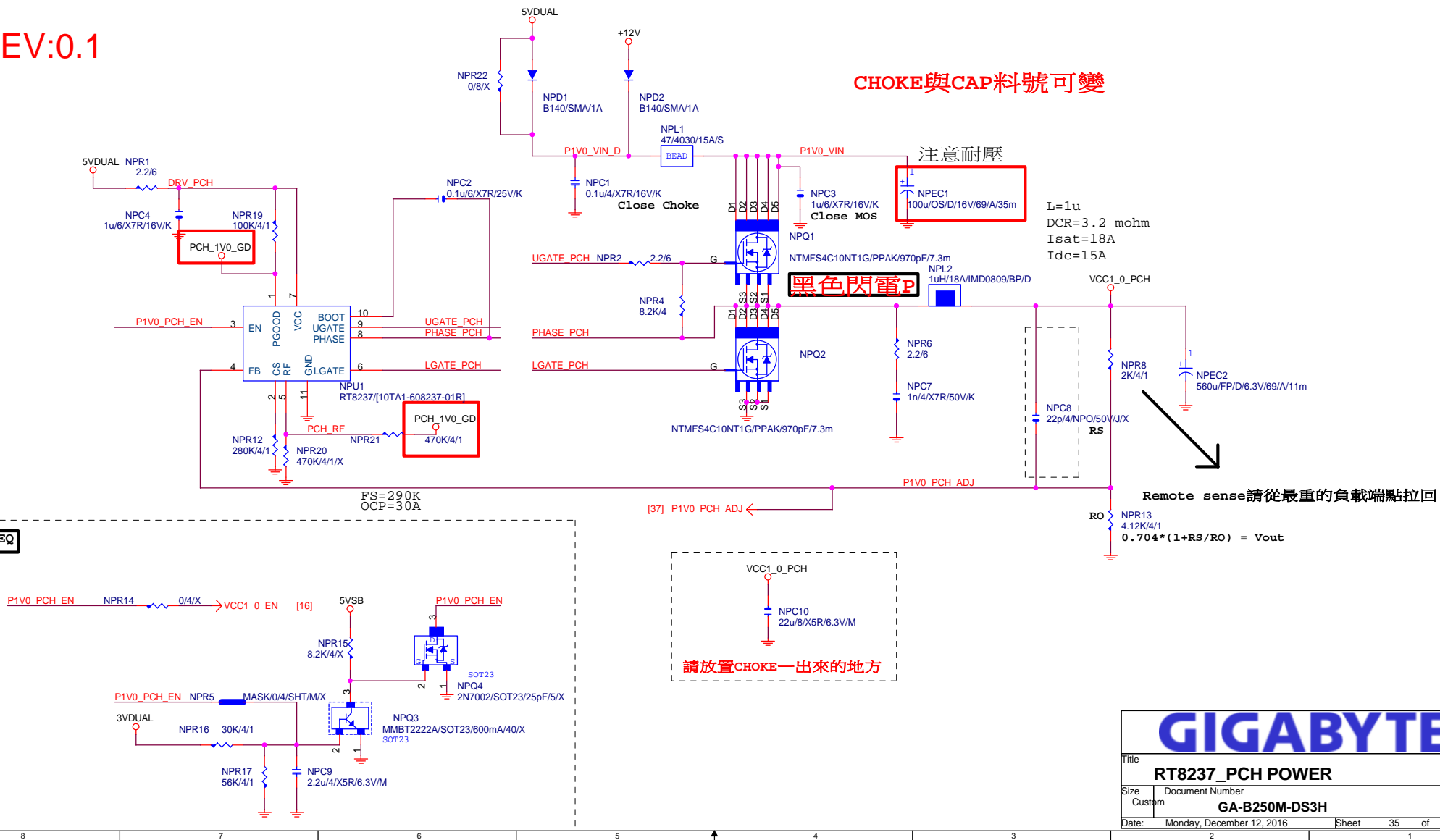


GIGABYTE™

Title				
RT8068A_VPP25 POWER				
Size	Document Number			Rev
Custom	GA-B250M-DS3H			1.0
Date:	Monday, December 12, 2016		Sheet	34 of 56

REV:0.1

CHOKE與CAP料號可變



REV:0.51

[16] 5VAUX_SW >>



5

3VDUAL

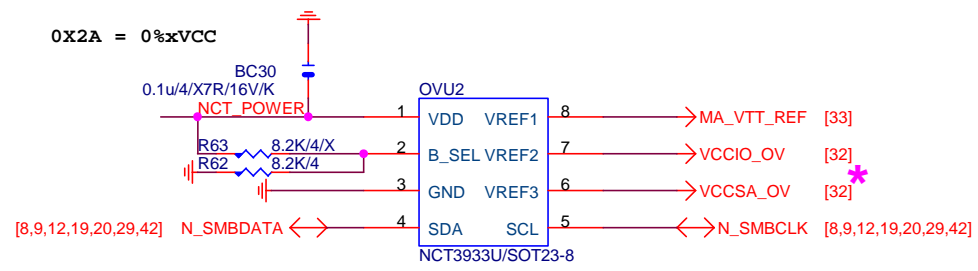
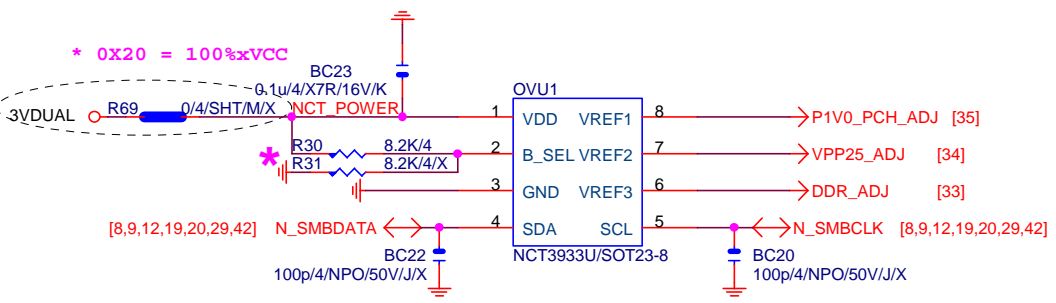
Q4
L1085DG/TO252/5A

Meet the rise time

[12] N_DEPSLP >>> BAT54A/SOT23/200mA/X

Title			
DISCRETE POWER			
Size	Document Number	Rev	
Custom	GA-B250M-DS3H	1.0	
Date:	Monday, December 12, 2016	Sheet	36 of 56

OVER VOLTAGE



0X22 = 75%xVCC

* 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

TitleCPU CORE VR-2

Size Custom

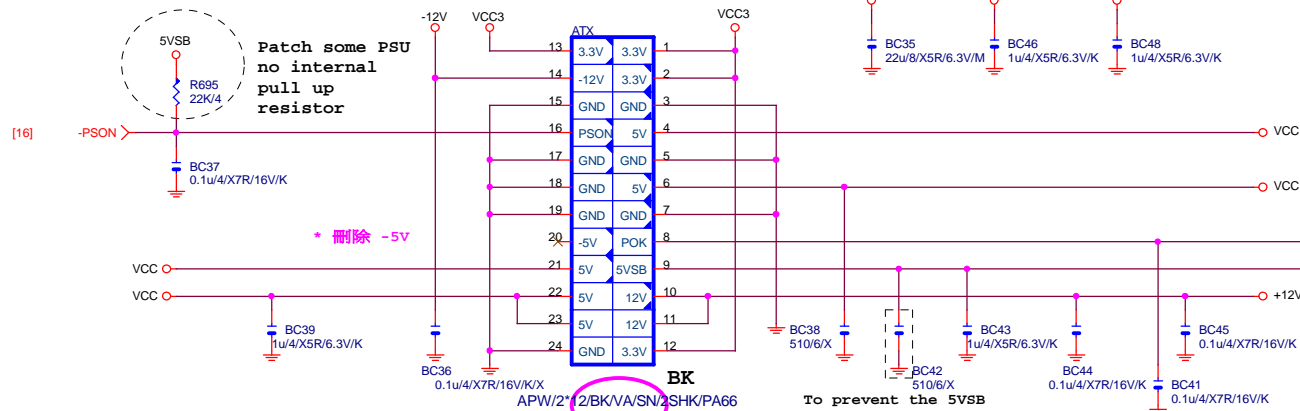
Document Number

Rev1.0

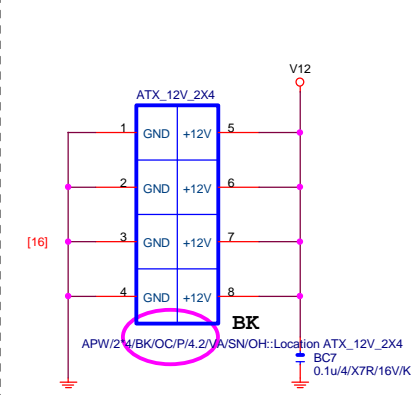
Date: Monday, December 12, 2016

Sheet 37 of 56

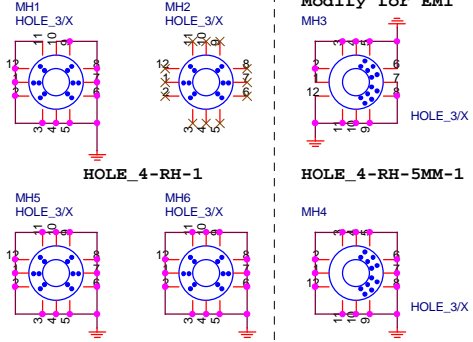
ATXX24 POWER CONNECTOR



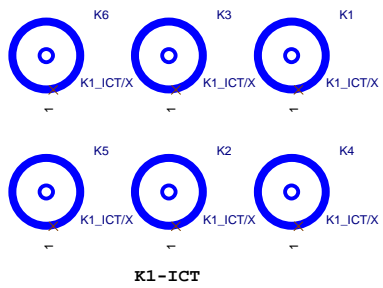
ATXX4 POWER CONNECTOR



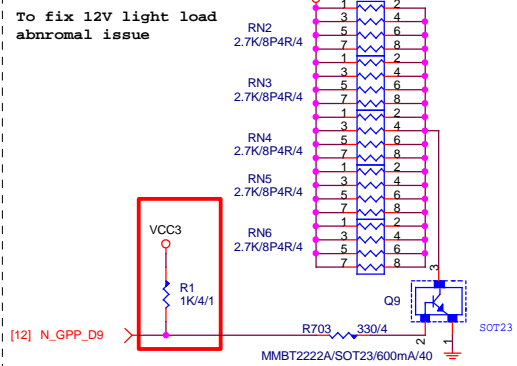
螺絲孔



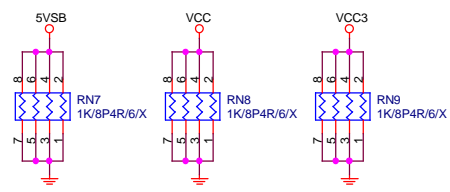
固定孔/光學點



+12V DUMMY LOAD



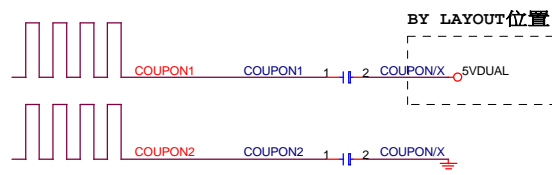
DUMMY LOAD



-PROHOT

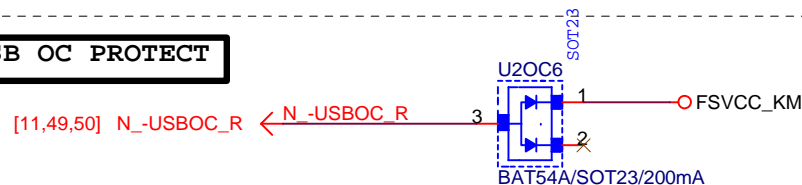
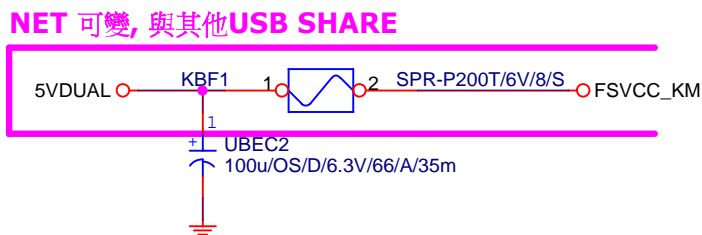
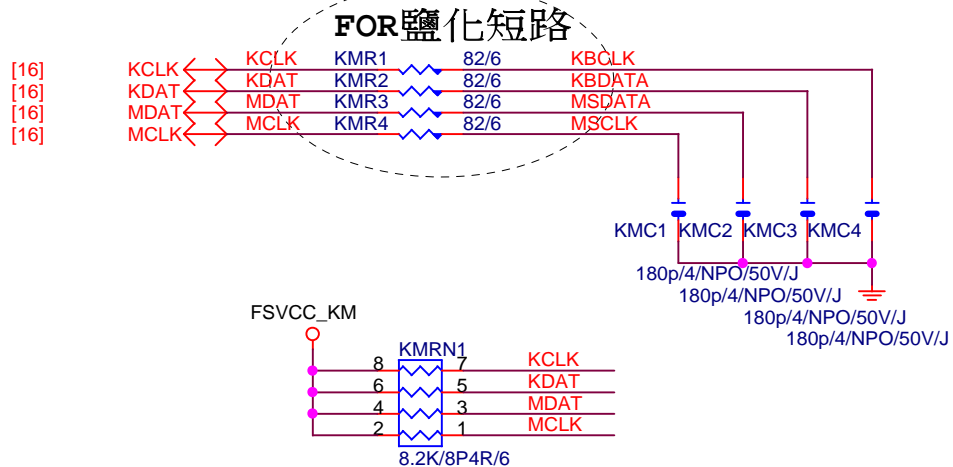
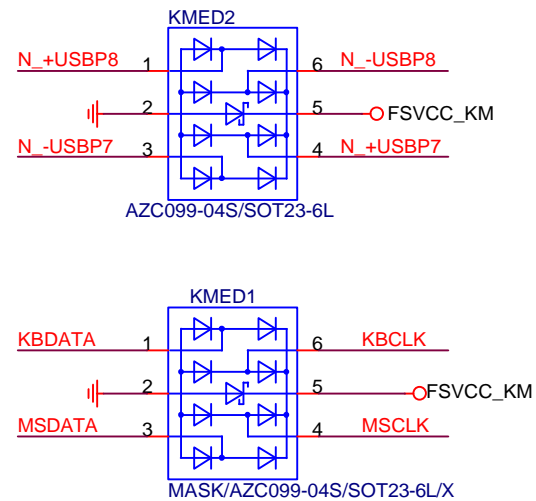
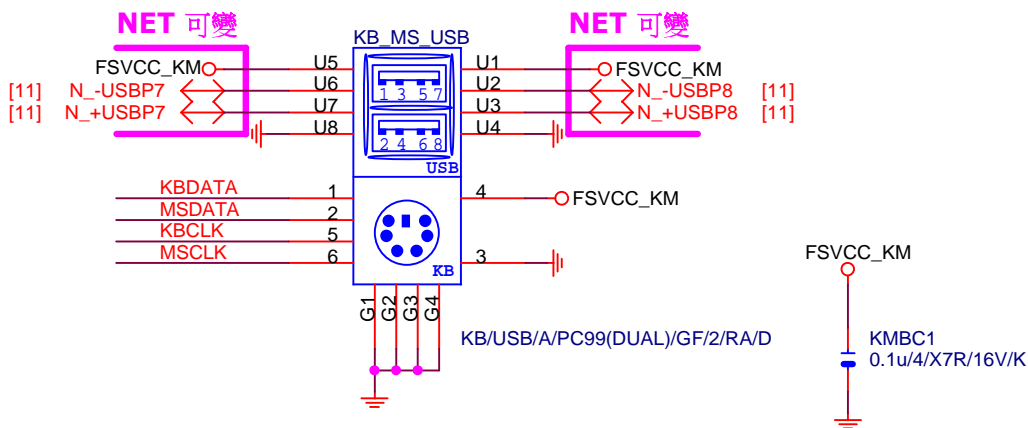


COUPON



Gigabyte Technology

Title		
ATX POWER CONNECTOR		
Size	Document Number	Rev
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Gigabyte Technology

Title

KB_MS_USB

Size

Document Number

GA-B250M-DS3H

Rev

1.0

Date:

Monday, December 12, 2016

Sheet

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of

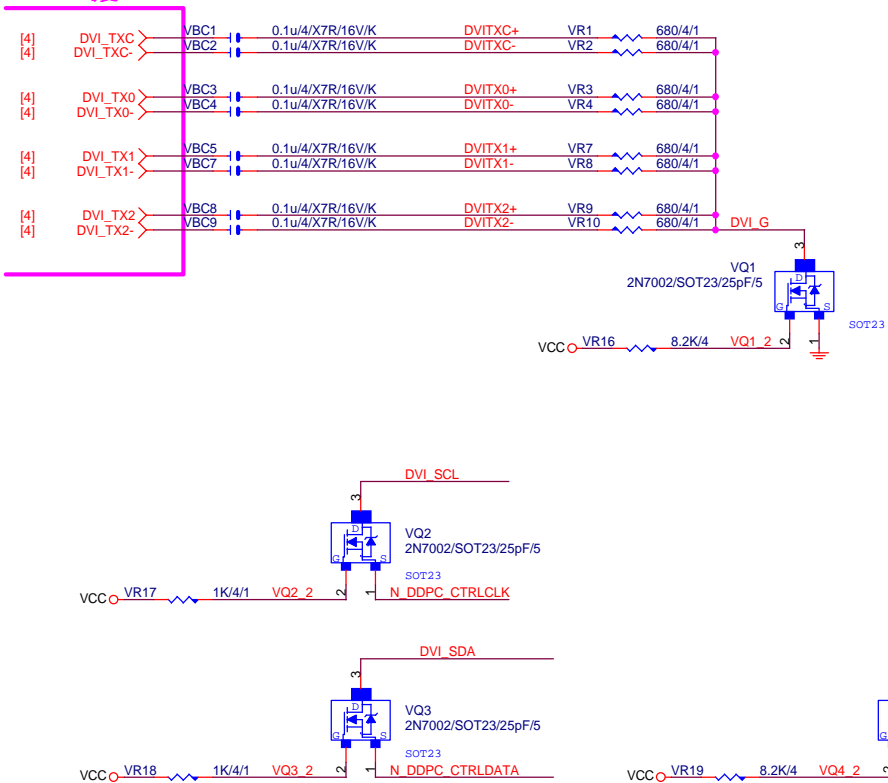
56

DVI

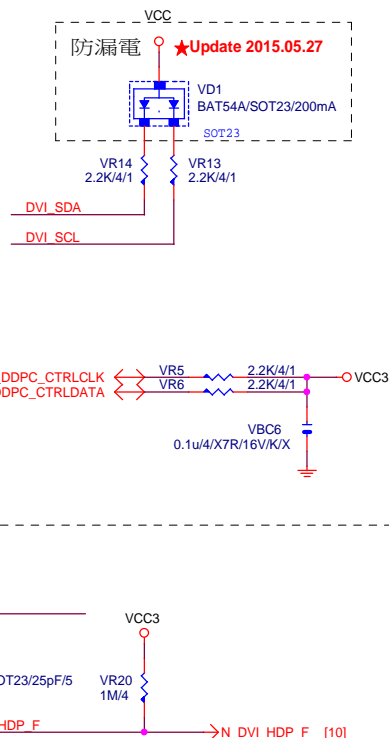
Rev: 0.8

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

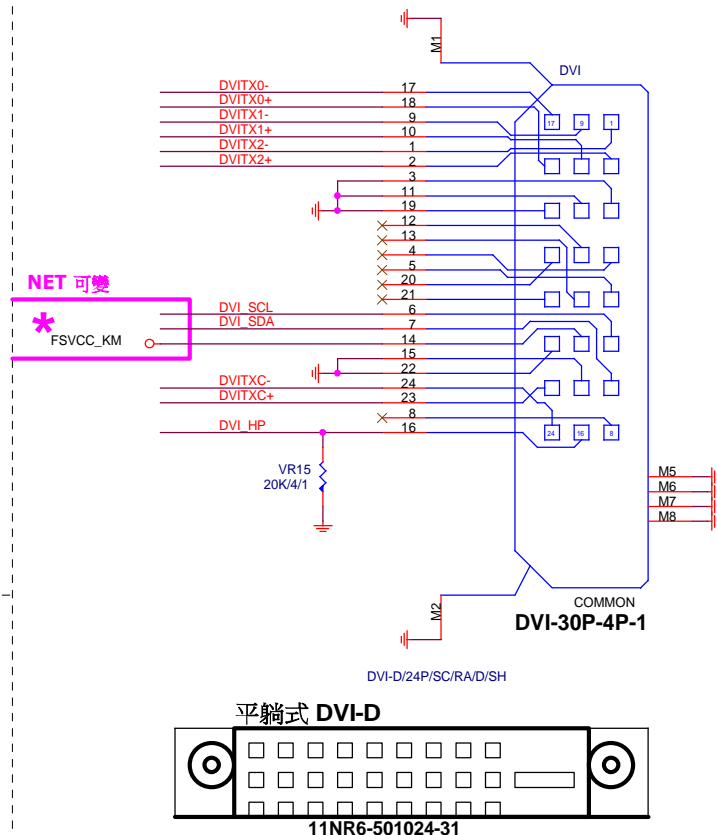
NET 可變



DVI PU

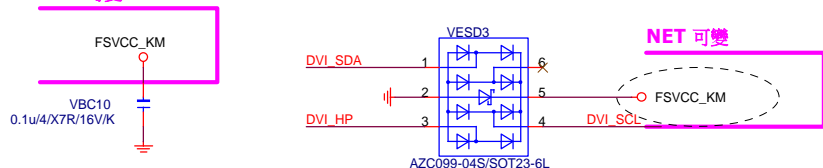


DVI CONN

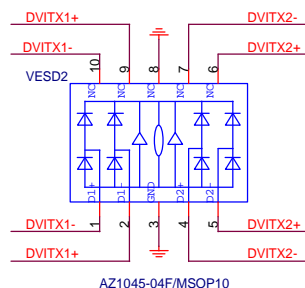


ESD

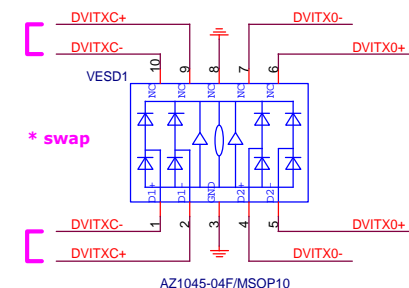
NET 可變



Close to connector



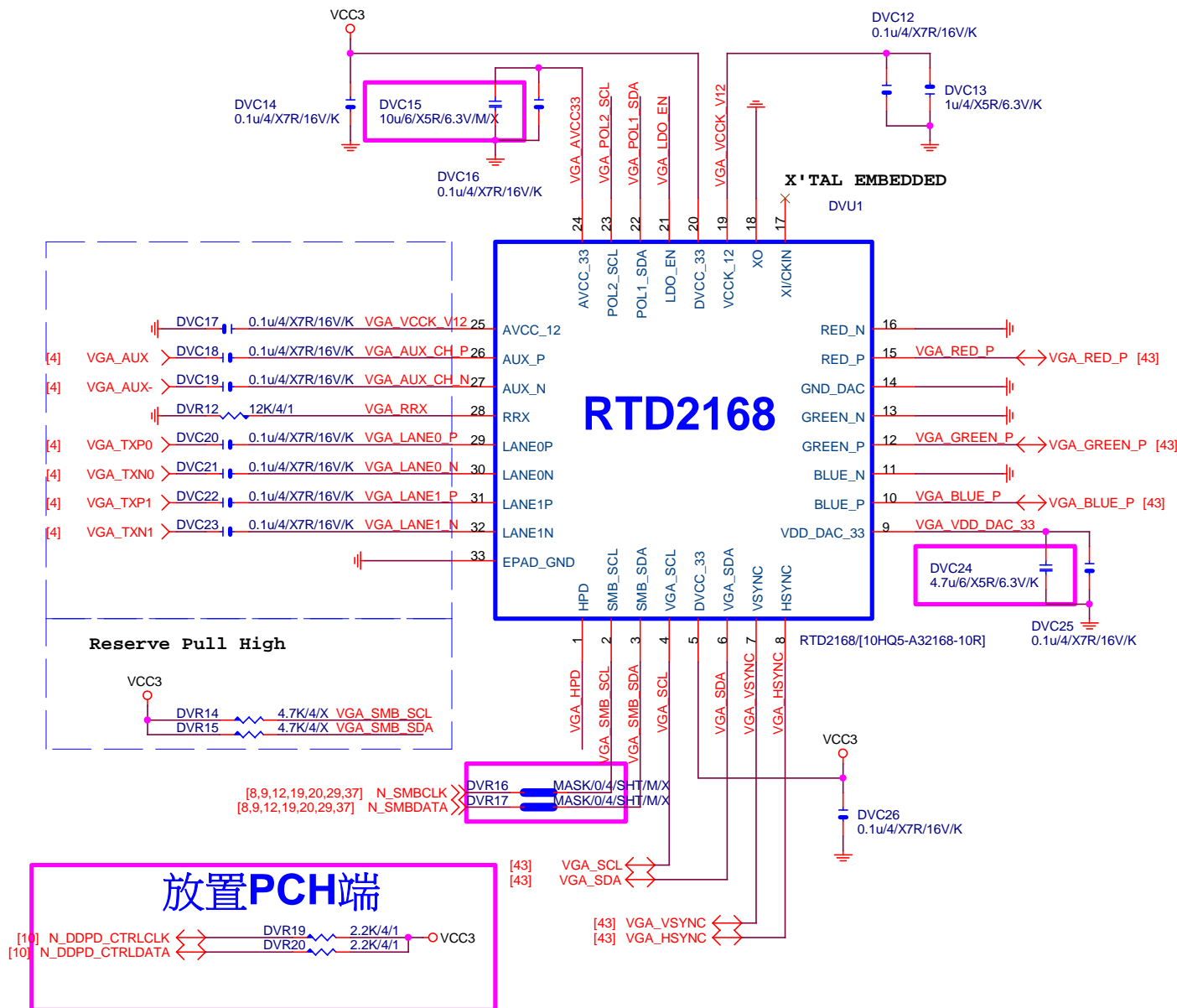
Close to connector



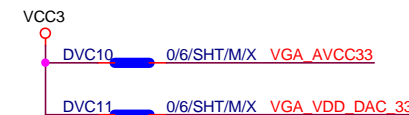
Close to connector

Gigabyte Technology

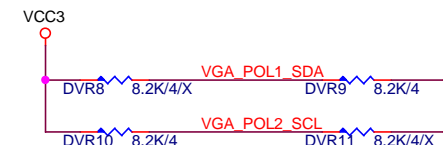
Title			
DVI			
Size Custom	Document Number	GA-B250M-DS3H	Rev 1.0
Date:	Monday, December 12, 2016	Sheet 40 of 56	



POWER

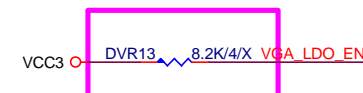


Power on latch



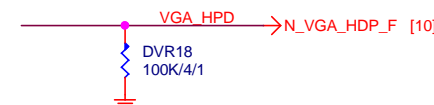
		POL1_SDA(PIN22)	
		0	1
POL2_SCL (PIN23)	0	X	EP MODE
	1	ROM ONLY MODE	EEPROM MODE

Embedded LDO

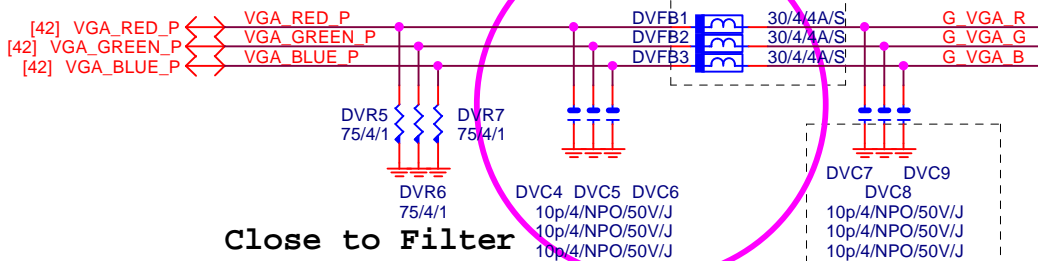
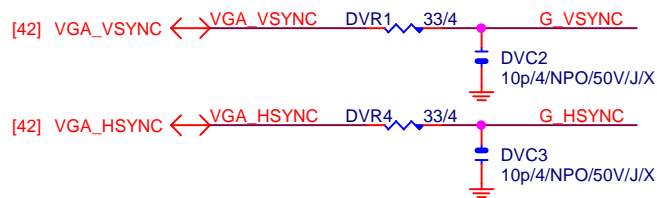
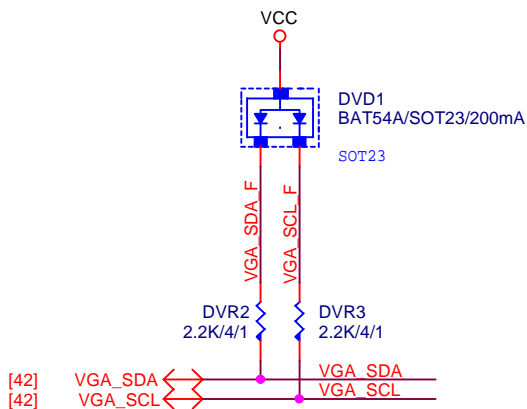


LDO_EN(PIN21)	
0	1
VCCK_V12 from External 1.2V	VCCK_V12 from Embedded LDO

DP HPD



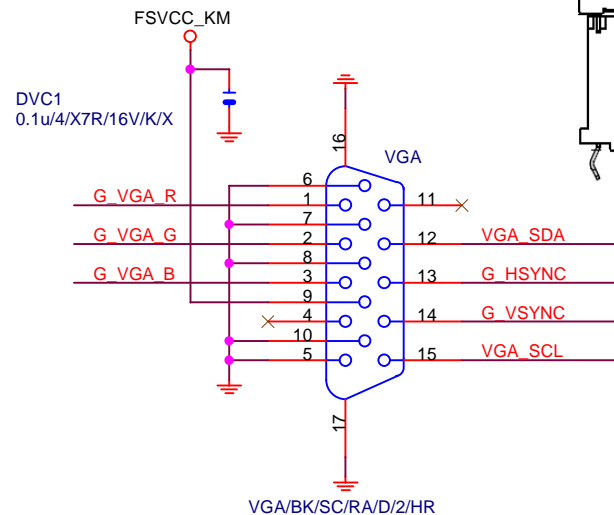
VGA SIGNAL R1.03



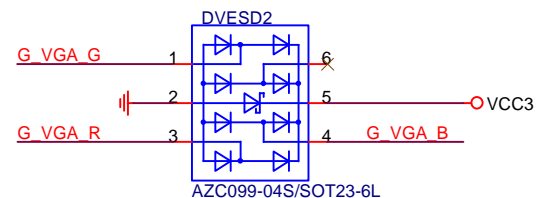
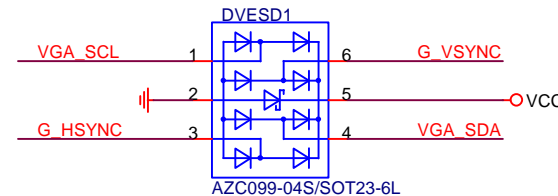
Close to Filter

FOR EMI

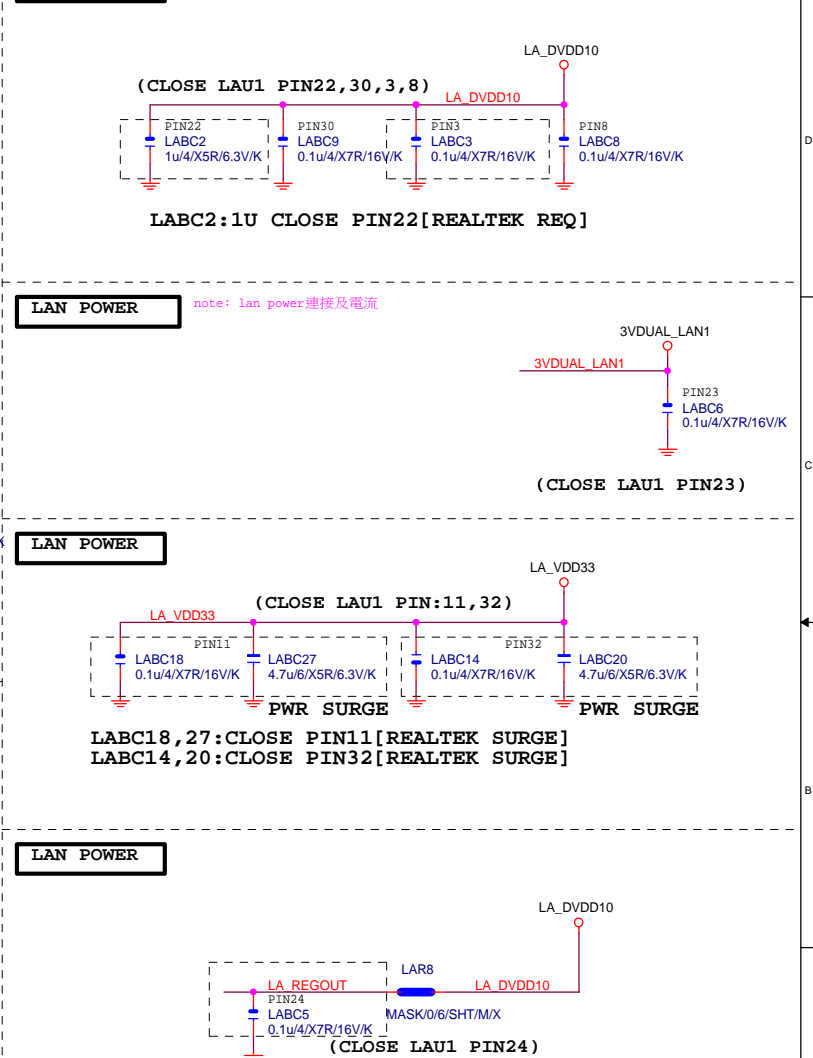
VGA CONN. 架高型VGA (BLACK)



VGA ESD

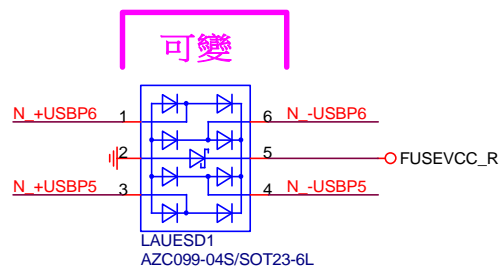


Gigabyte Technology		
DP-VGA RTD2168		
Title	Document Number	Rev
Size	Custom	GA-B250M-DS3H
Date:	Monday, December 12, 2016	Sheet 43 of 56

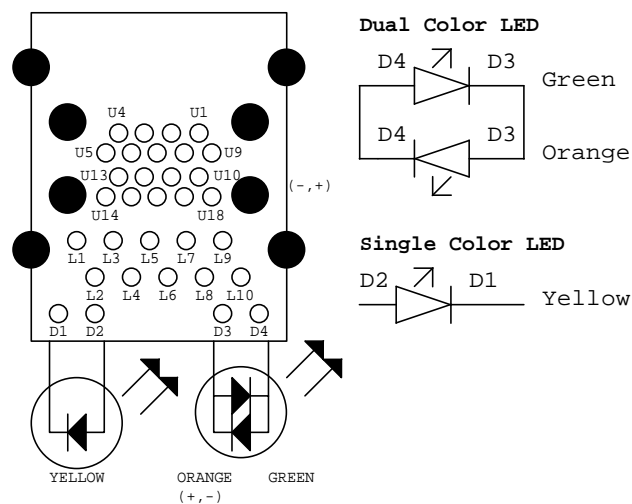


R1.1

note:可變更USB NAME



Dual Color LED



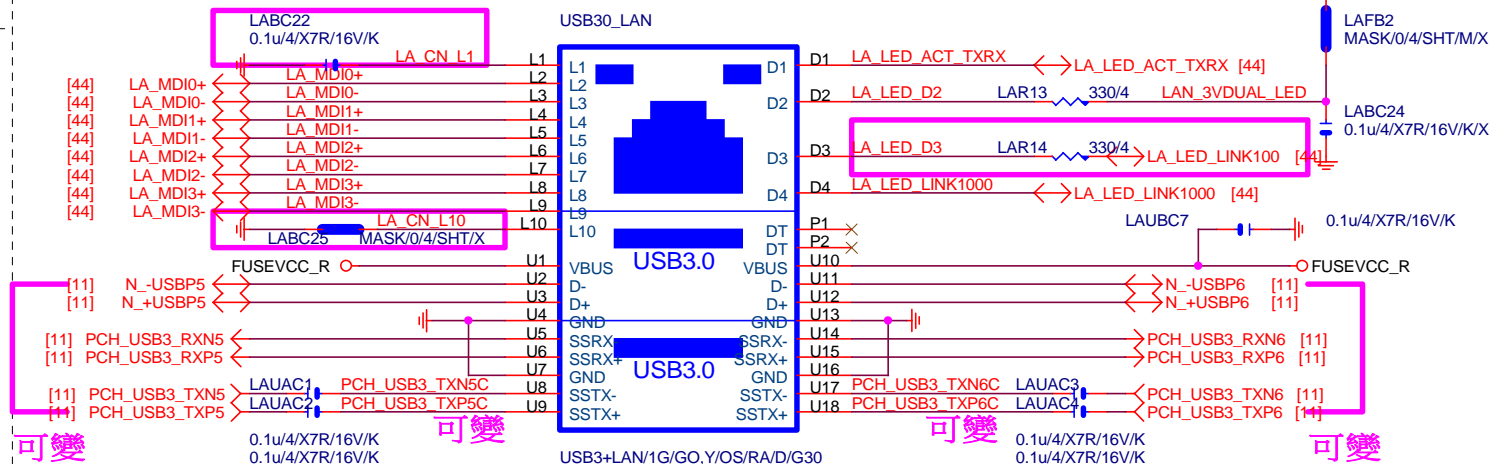
FOOT PRINT:LAN COVER

可變 [視SPEC需求]

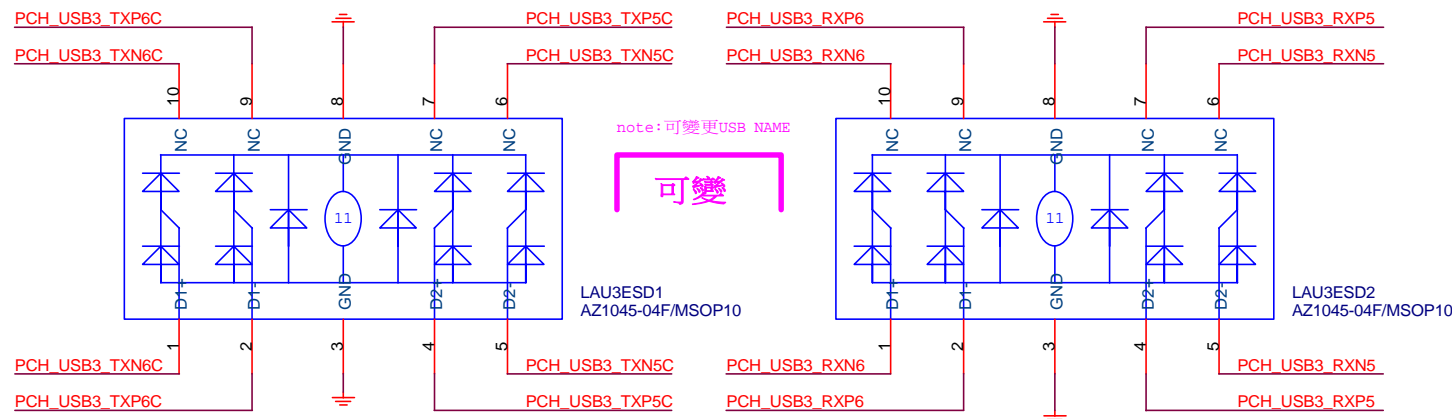
[-D3H不加蓋]

note:可變更USB NAME

[I219]

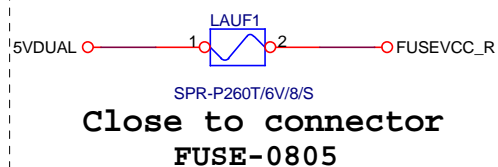


LA_MDI-->100歐姆:[20/4/8/4/20]



note:可變更FUSE

可變

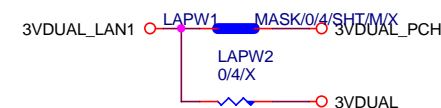


PS:視EMI需求

LAR24 MASK/0/4/SHT/X

note: lan power連接及電流

可變



Gigabyte Technology

LAN CONNECTOR-I219

Size	Document Number
Custom	

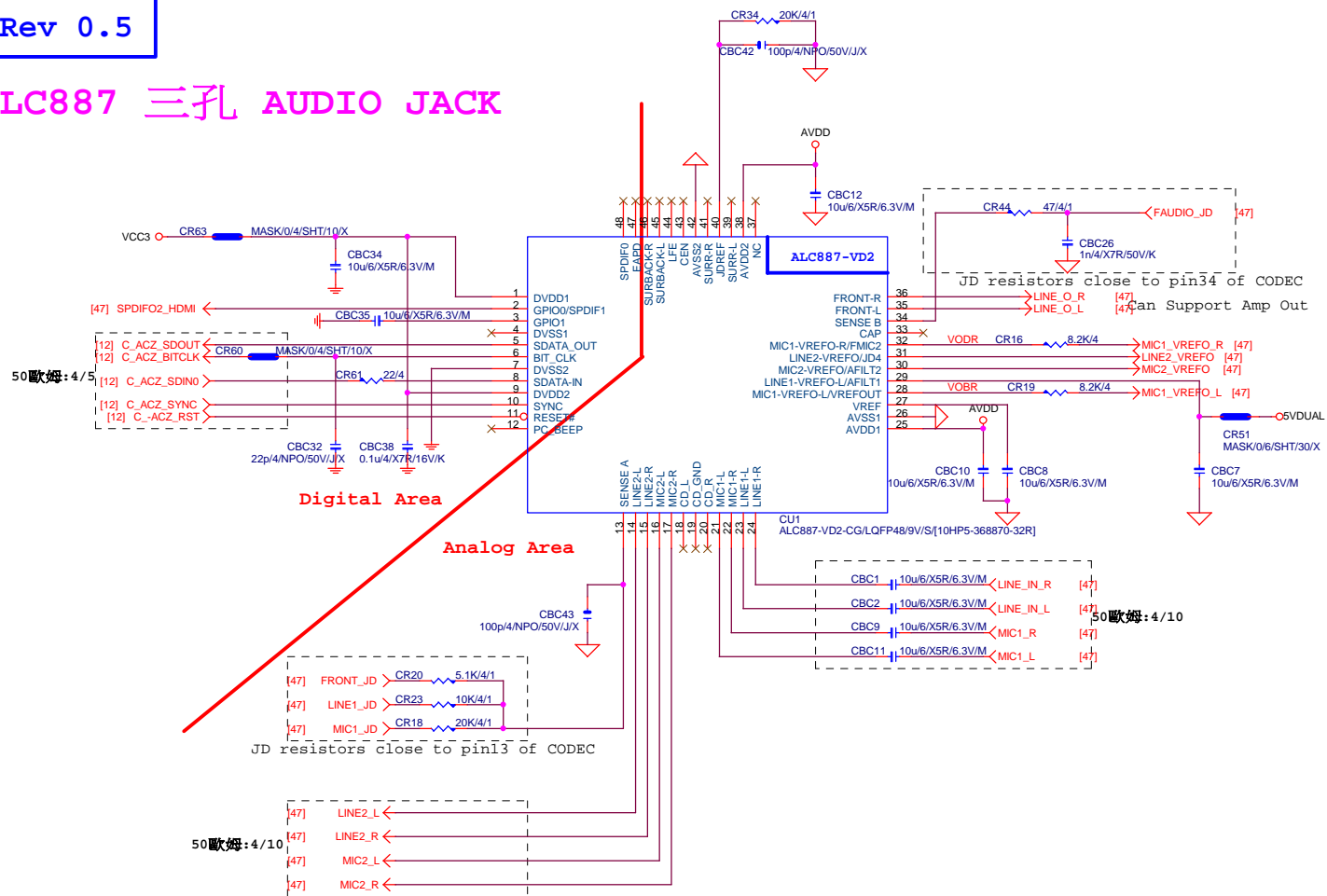
GA-B250M-DS3H

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Rev
1.0

ALC887 三孔 AUDIO JACK



LAYOUT注意: 螺絲孔下GND方式

1. MH1空間夠, 下DGND
空間不夠, 改為Isolate
2. MH2一律改為Isolate

<input type="radio"/> MH1	<input type="radio"/> MH2
DGND	Isolate

LAYOUT注意: 要加

GND切割線

音效區域印刷

Gigabyte Technology

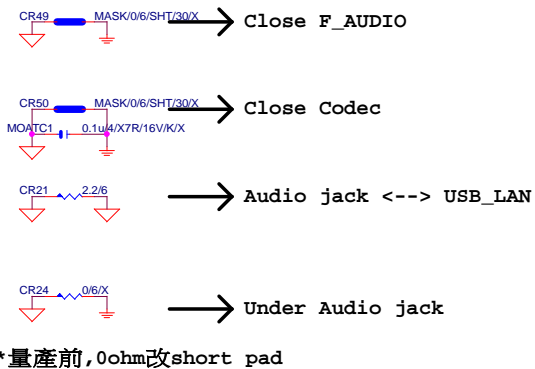
Title HD AUDIO ALC887

Size Custom Document Number GA-B250M-DS3H

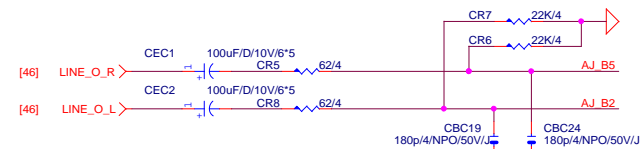
Rev 1.0

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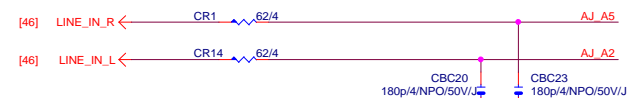
Rev 0.5



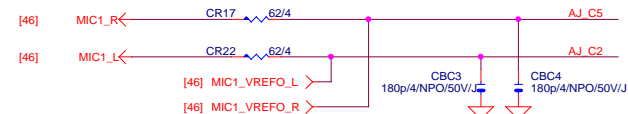
LINE-OUT



LINE-IN



MIC-IN

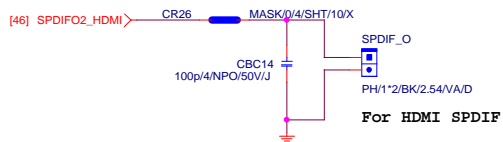


SURROUND

CEN/LFE

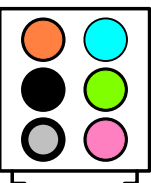
SURRBACK

SPDIF_OUT

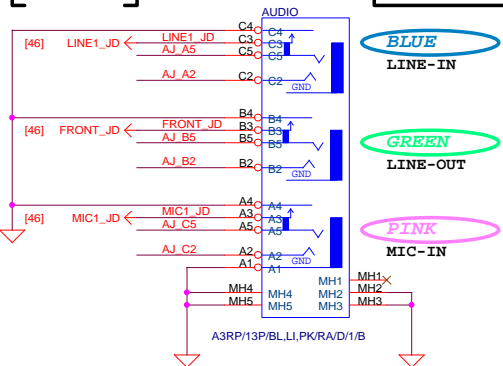


SPDIF_IN

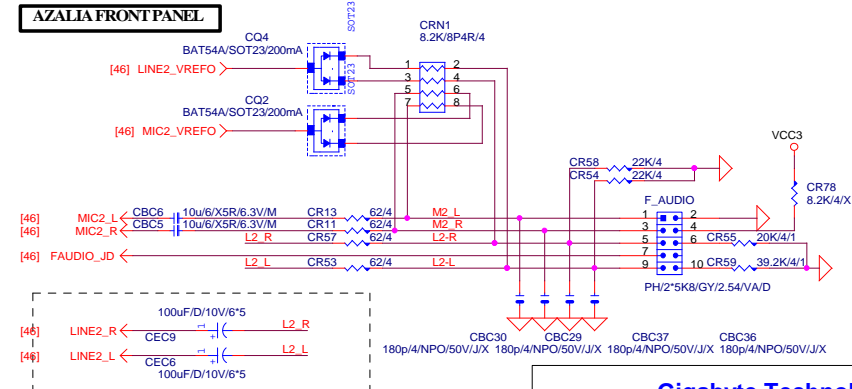
AZALIA JACK



AZALIA JACK



AZALIA FRONT PANEL



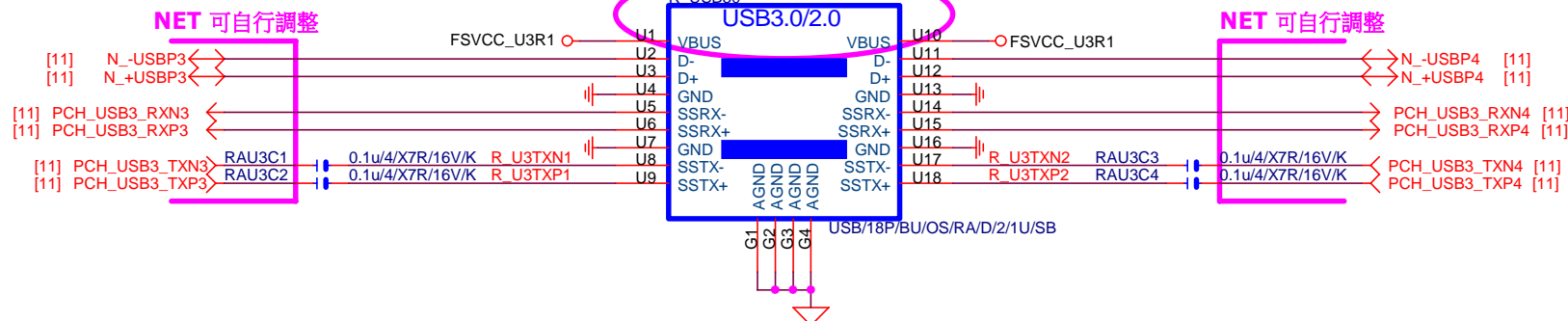
Gigabyte Technology

AUDIO JACK

Title	Document Number	Rev
	GA-B250M-DS3H	1.0
Size		
Custom		
Date:	Monday, December 12, 2016	Sheet 47 of 56

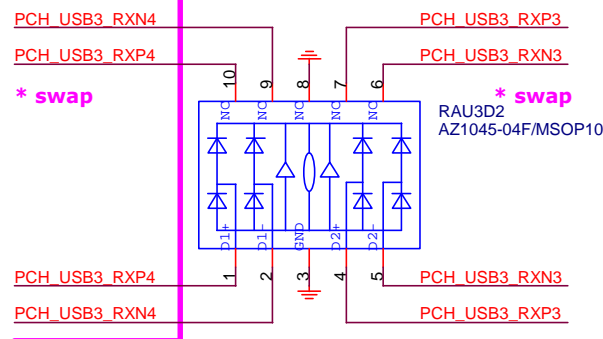
Rev: 0.7

ESD 可自行SWAP PIN ,CONN端 NET 名稱 不可

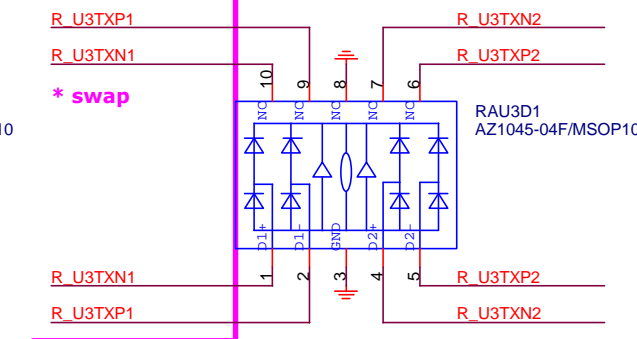


ESD

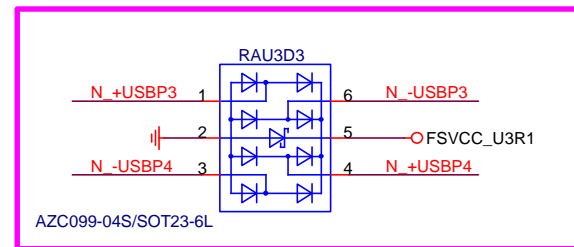
NET 可自行調整



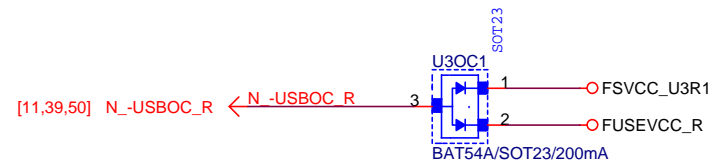
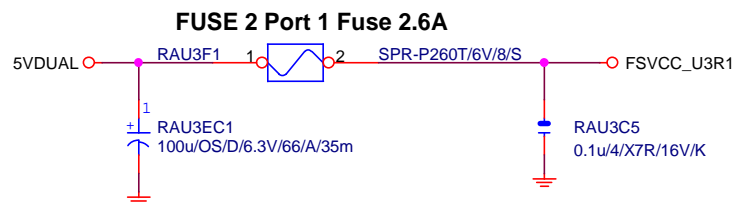
NET 可自行調整



NET 可自行調整

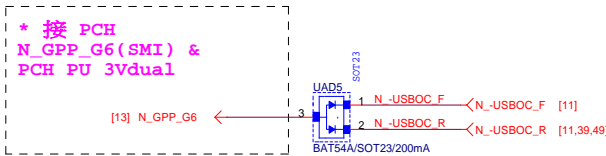
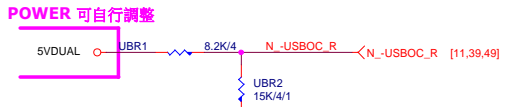
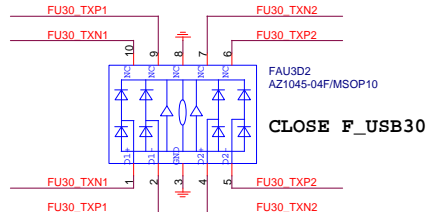
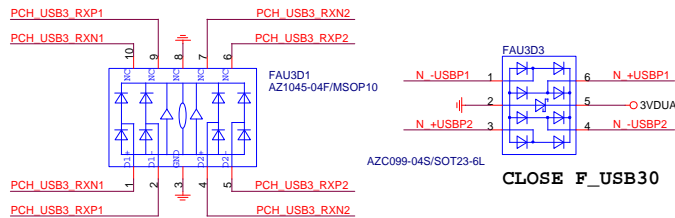


FUSE



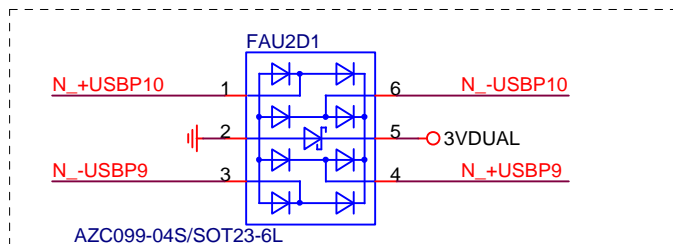
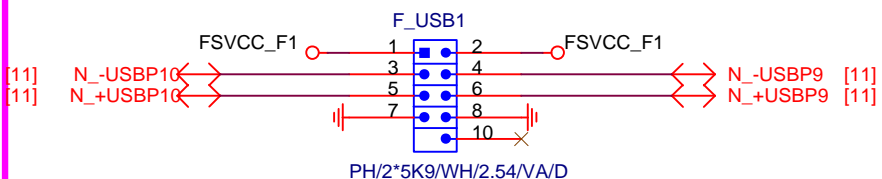
Gigabyte Technology

Title			R_USB30,USB_OC
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Custom			Rev 1.0
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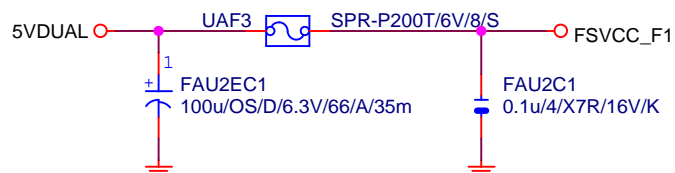
NET 可變

FUSB2X5-HS



Close to connector

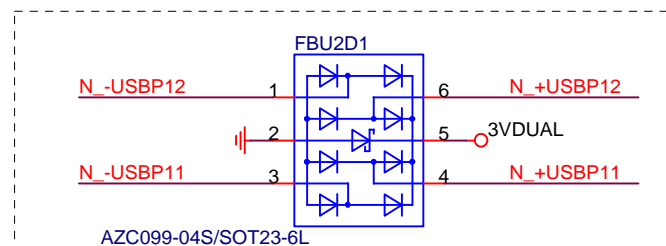
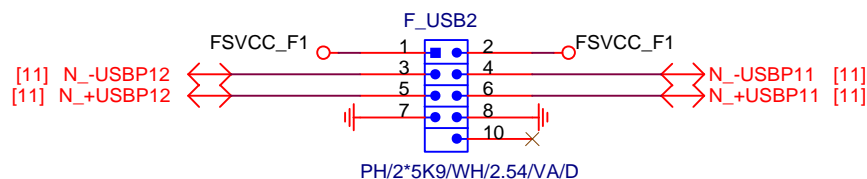
FUSE 2 Port 1 Fuse 2A



F_USB 2.0 OC SIGNAL

NET 可變

FUSB2X5-HS

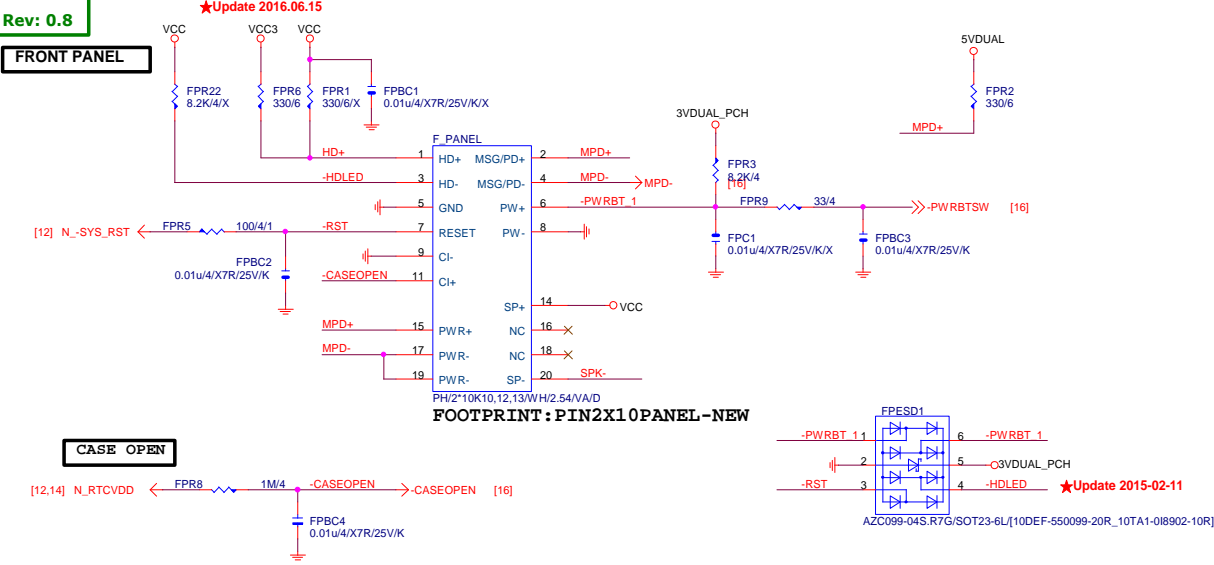


Close to connector

FUSE 2 Port 1 Fuse 2A

Gigabyte Technology			
Title			
USB2.0			
Size A	Document Number		Rev
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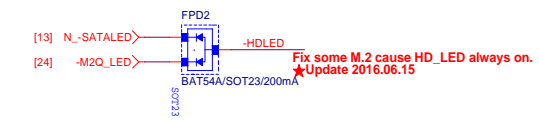
FRONT PANEL



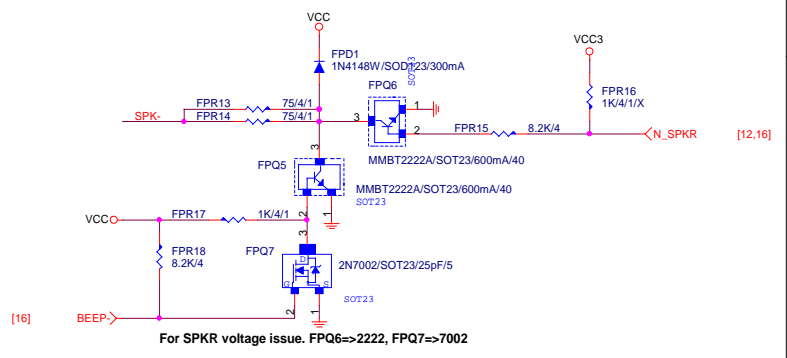
CASE OPEN

FRONT PANEL SHORT

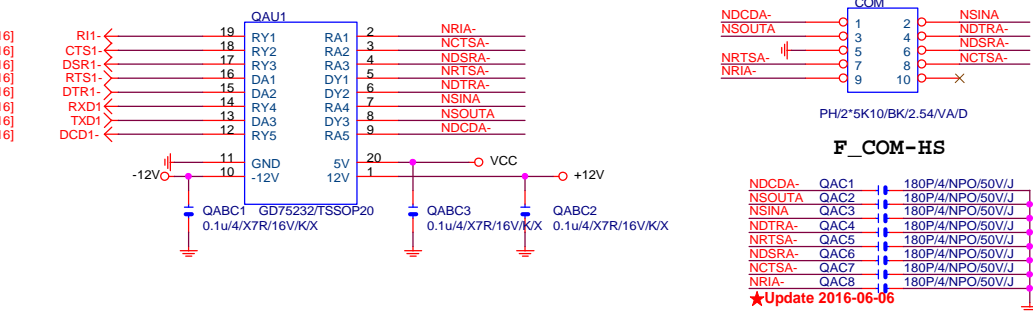
SATA/M.2 LED



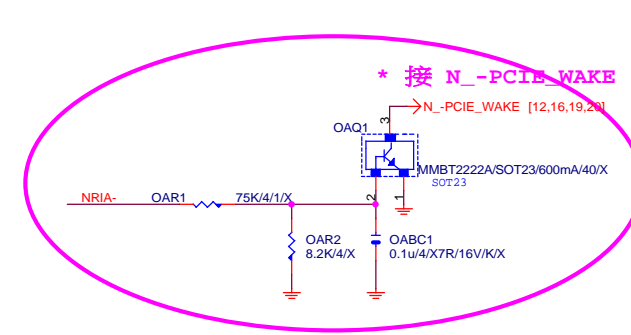
SPKR



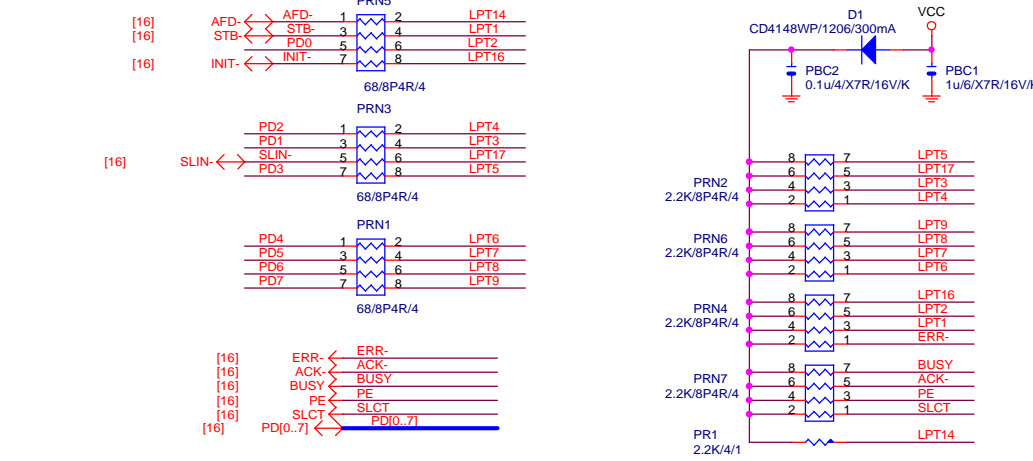
COM PORT Rev: 0.7



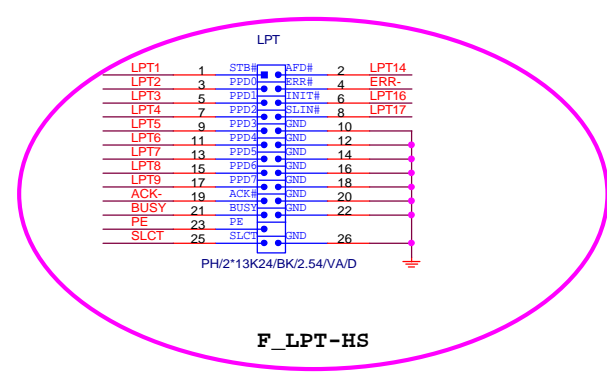
COM RI N/A



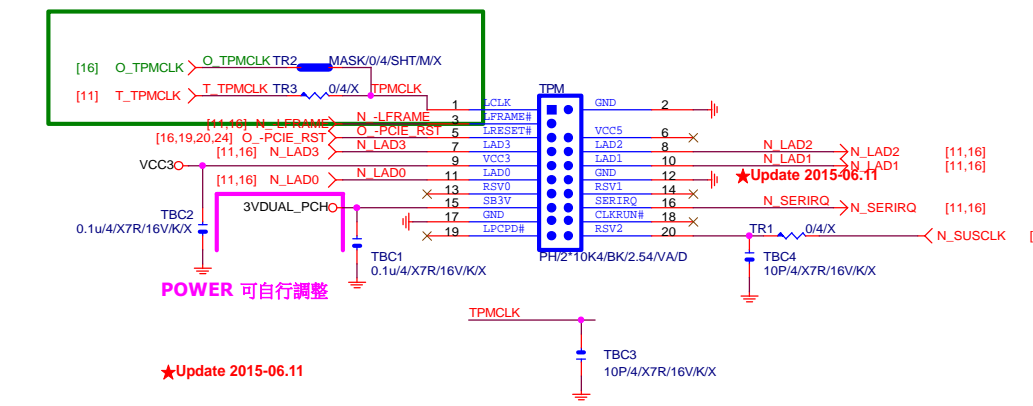
LPT PORT



R&D技術通報151 有使用PRINT PORT的
MODEL・需使用新料號:10HP2-118728-72R。(CHIP IT8728F/EX (GB) ITE/SMD
QFP128 PRINTPORT SORTING)料件。串電阻33 ohm改為68 ohm。



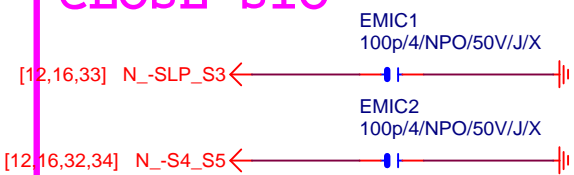
TPM CONNECT



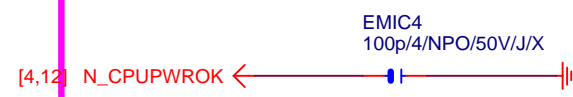
Thunderbolt

★Update 2015-12-29

CLOSE SIO

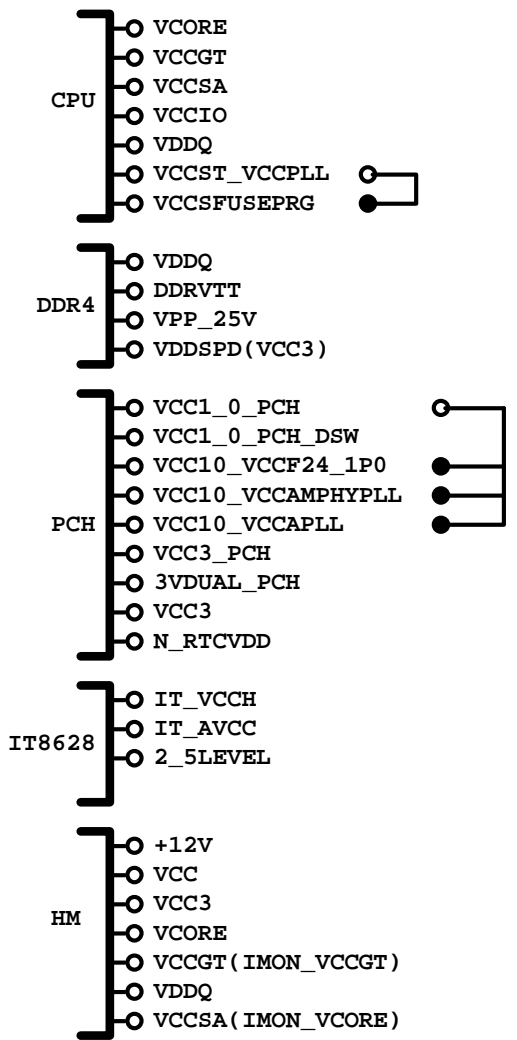


CLOSE PCH

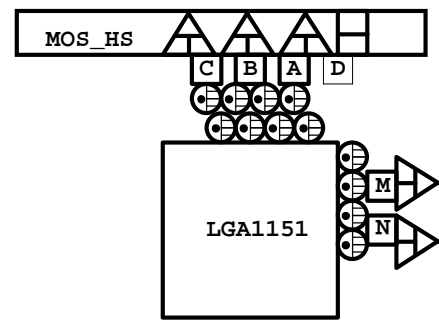
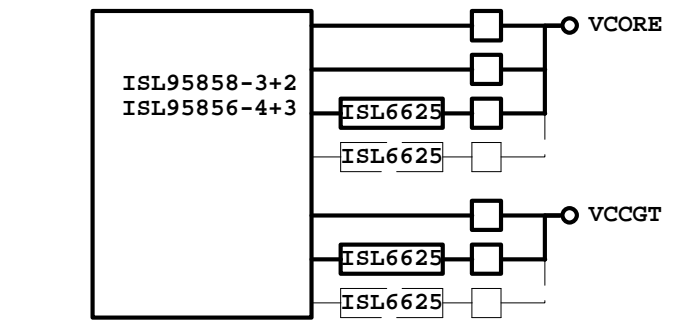


Title		
EM/ESD		
Size A	Document Number GA-B250M-DS3H	Rev 1.0
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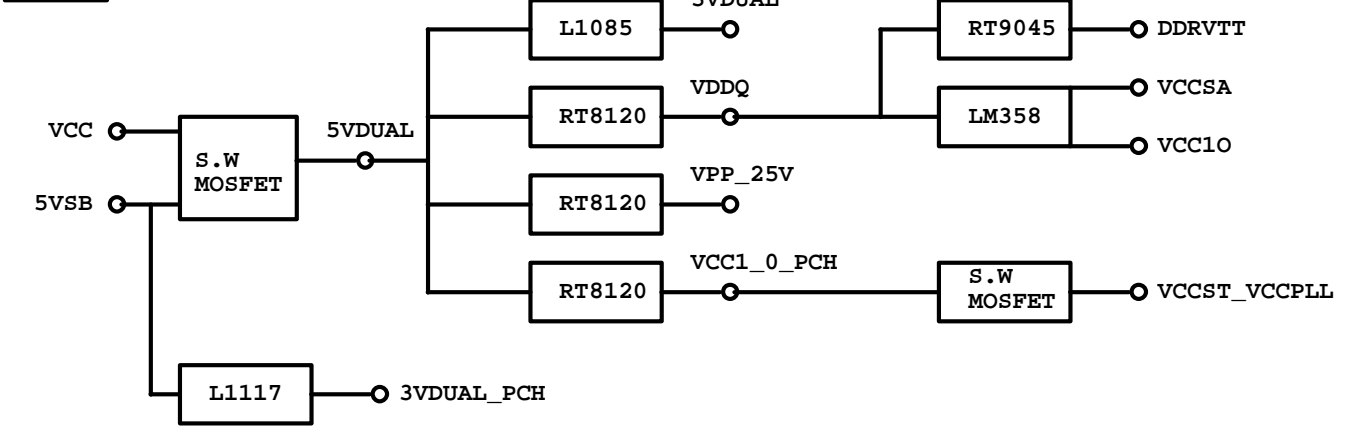
POWER BLOCK MAP



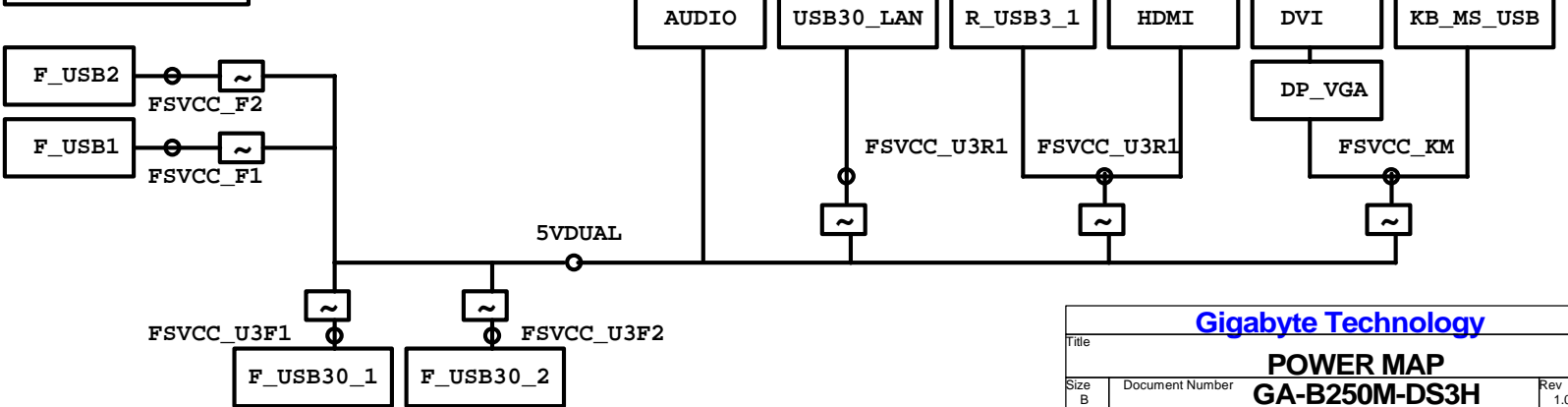
VCORE/VCCGT



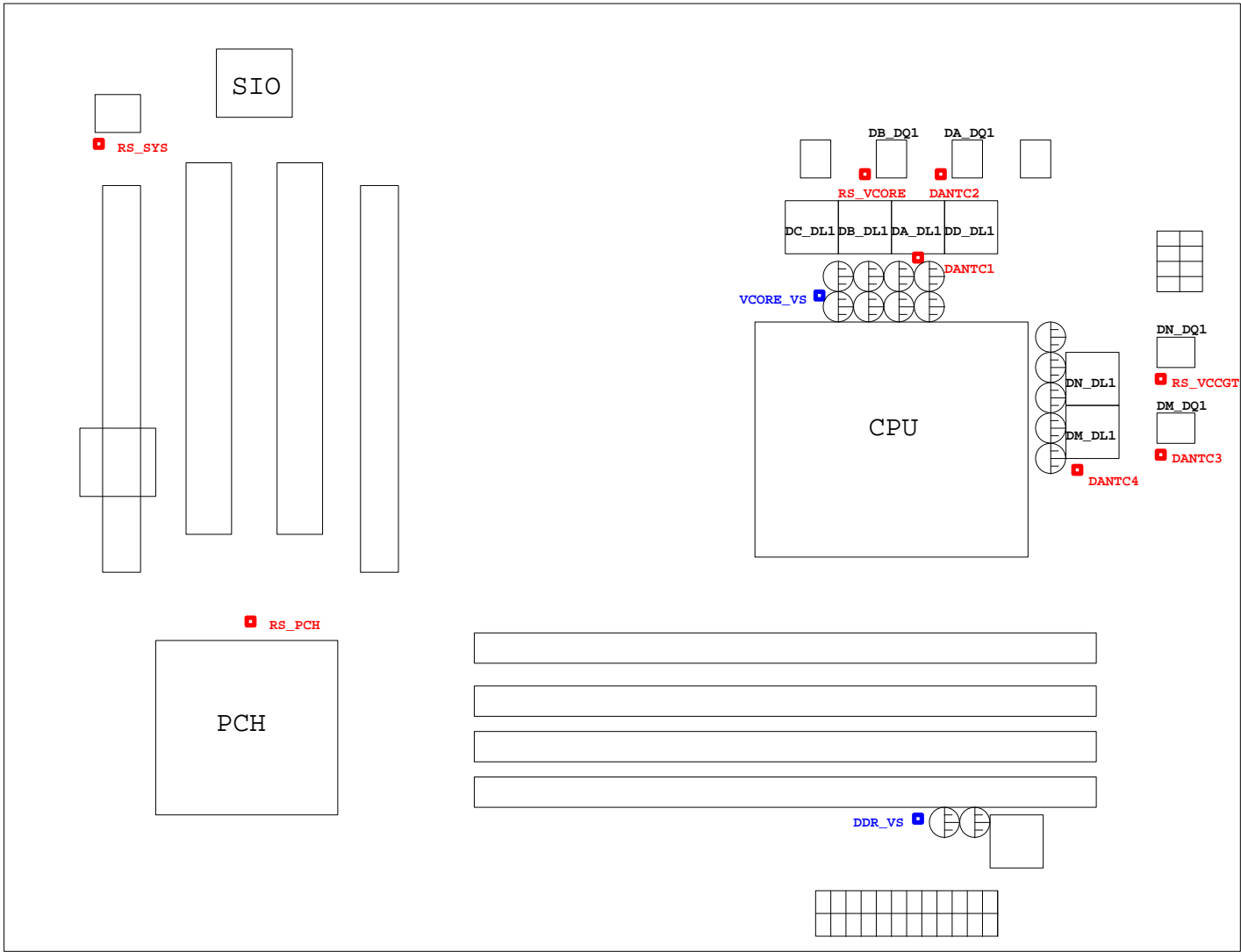
POWER



FUSE POWER F/R



Gigabyte Technology			
Title			
POWER MAP			
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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