

# Model Name: GA-X150M-PLUS WS 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	DDR3 CHANNEL A
09	DDR3 CHANNEL B
10	PCH_CLK BUFFER
11	PCH_DMI,USB,PCIE
12	PCH_MISC
13	PCH SATA,PCIE,SATA_EXPRESS
14	PCH_PWR,GND
15	Dual BIOS
16	ITE 8628 LPC IO
17	HWM
18	FAN CTRL--SIO
19	PCI EXPRESS*16 SLOT
20	
21	PCI EXPRESS*1 SLOT
22	M.2X4
23	SATA EXPRESS
24	IT8892 PCI BRIDGE
25	PCI SLOT
26	ISL95858_856 PWM
27	ISL95858_856 MOS_VCORE

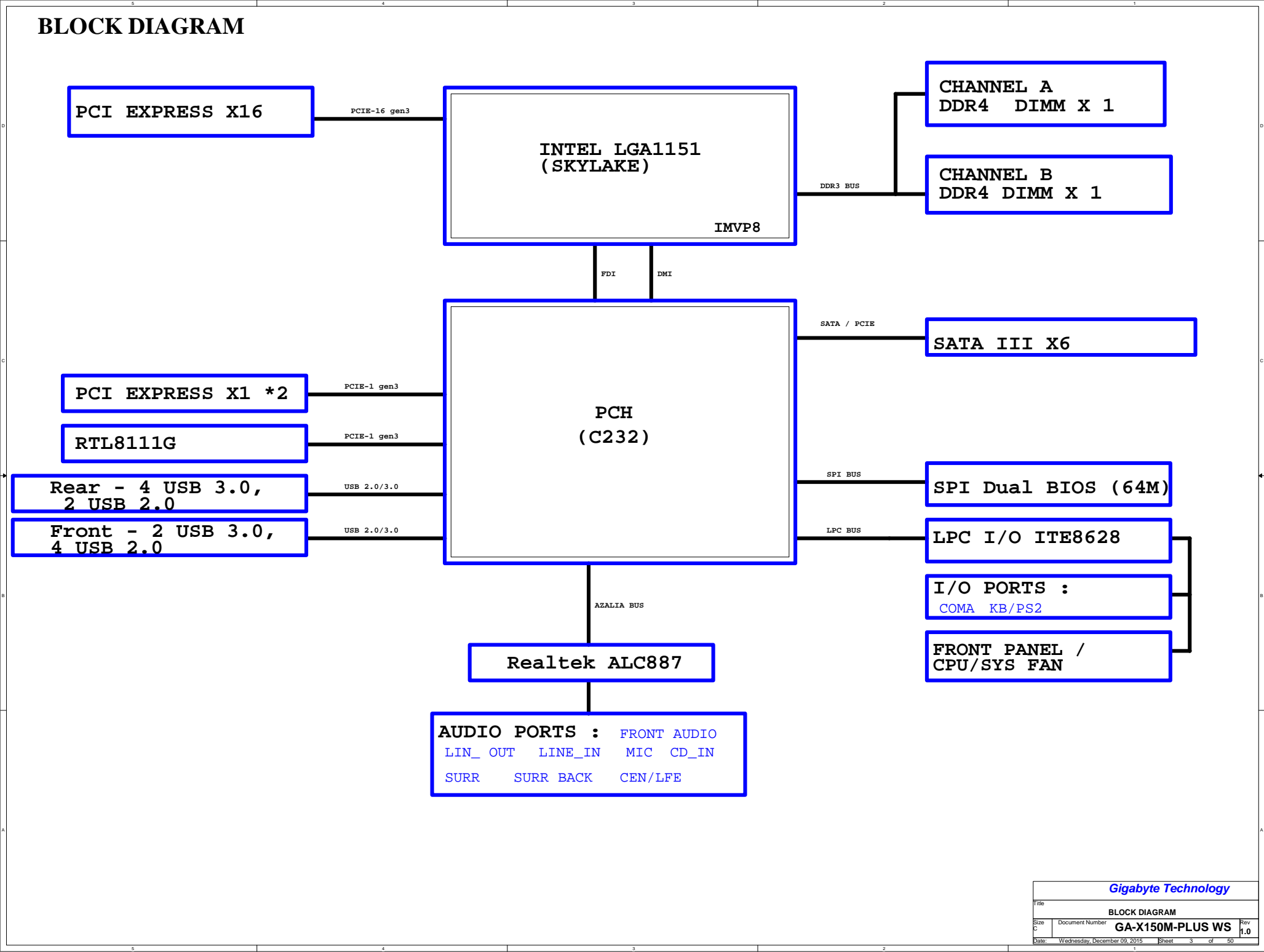
SHEET	TITLE
28	ISL95858_856 MOS_VCCGT-MASK
29	VCCSA_VCCIO_VCCPLL
30	RT8120_DDR_VDDQ
31	RT8068_DDR_VPP
32	RT8120_PCH_VCC1_0_PCH
33	DISCRETE POWER
34	NCT3933
35	ATX POWER , A_-PROCHOT
36	KB_MS_USB
37	DVI CONN
38	RTD2168 - DP to VGA - IC
39	RTD2168 - DP to VGA - Conn
40	R_USB30_1
41	R_USB30_2
42	REALTEK - RTL8111G
43	USB30_LAN CONNECTOR-RTL8111G
44	Realtek ALC887
45	REAR AUDIO JACK
46	F_USB30
47	F_USB
48	COM , LPT , TPM
49	F_PANEL
50	TABLE LIST
51	POWER MAP

## Circuit or PCB layout change

## Circuit or PCB layout change

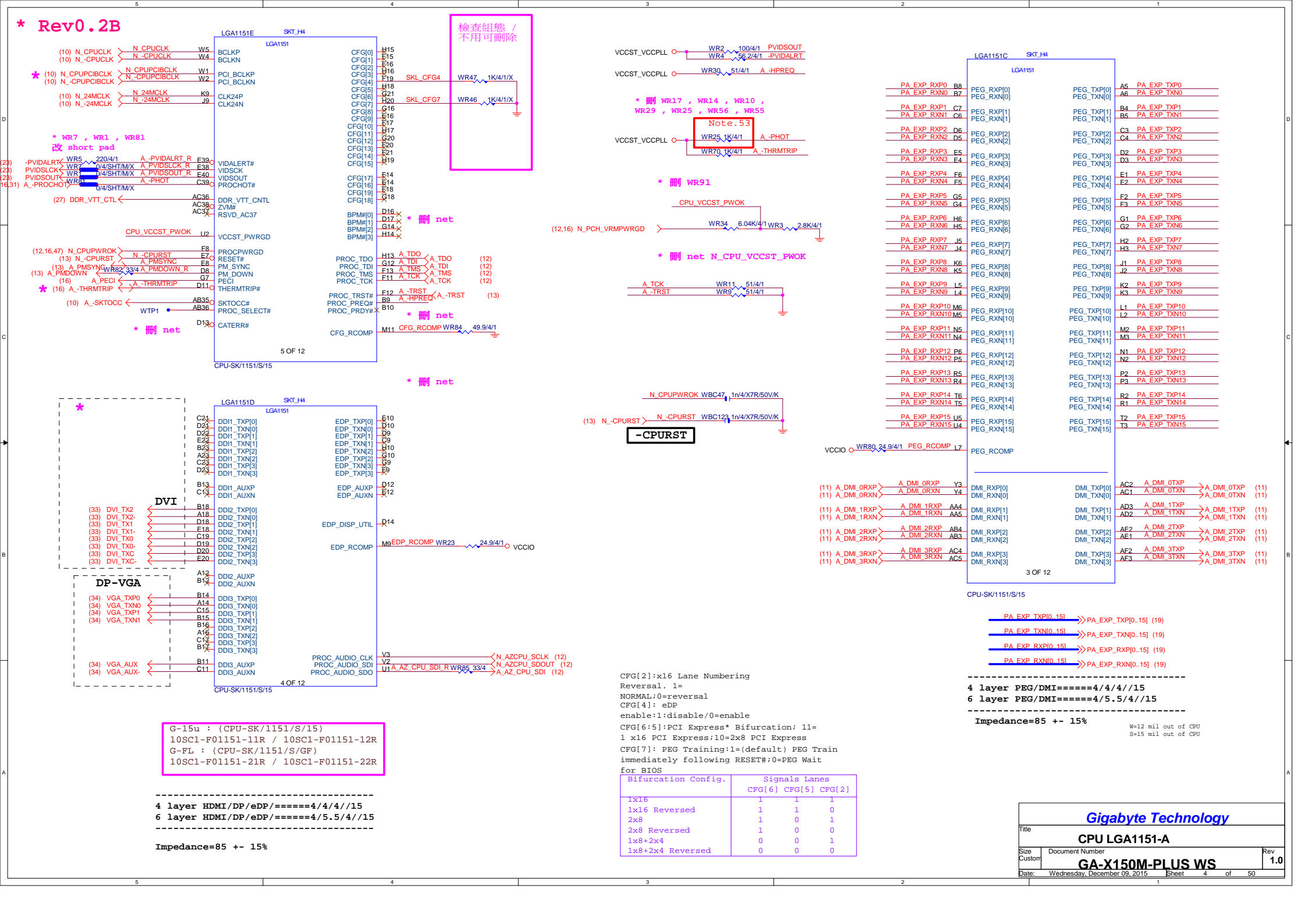
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BLOCK DIAGRAM

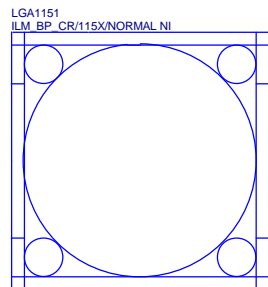
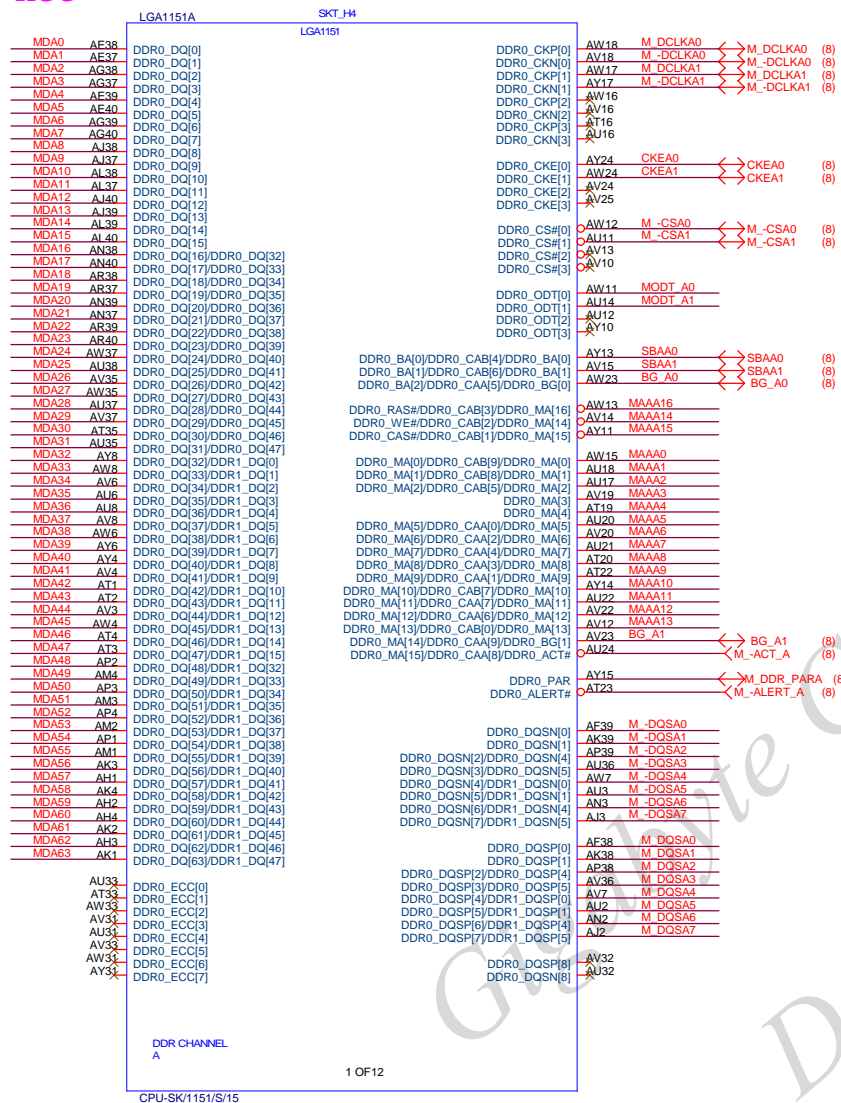


# Rev0.2B

D  
C  
B  
A



\* 改DDR4 net



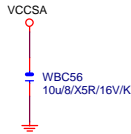
Need check the new CPU ME



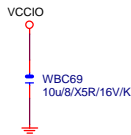
(8) MODT_A[0..1]	MODT_A0_11
(9) MODT_B[0..1]	MODT_B0_11
(8) MDA[0..63]	MDAI0_63I
(9) MDB[0..63]	MDBI0_63I
(8) M_DQSA[0..7]	M_DQSA0_7I
(8) M_-DQSA[0..7]	M_-DQSA0_7I
(8) MAA[A0..16]	MAAAI0_16I
(9) MAAB[A0..16]	MAABI0_16I
(9) M_DQSB[0..7]	M_DQSB0_7I
(9) M_-DQSB[0..7]	M_-DQSB0_7I

**Gigabyte Technology**

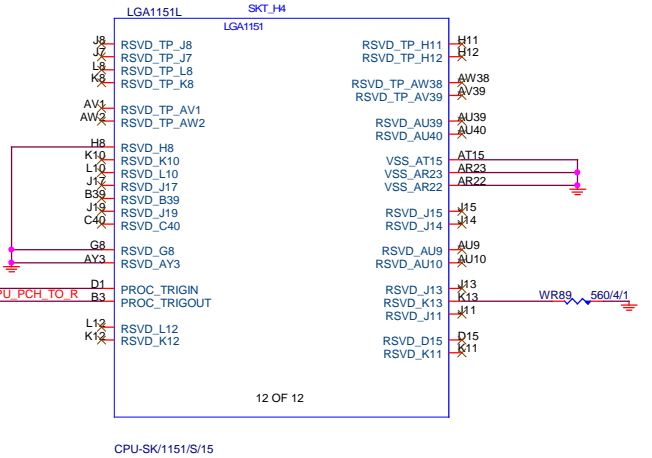
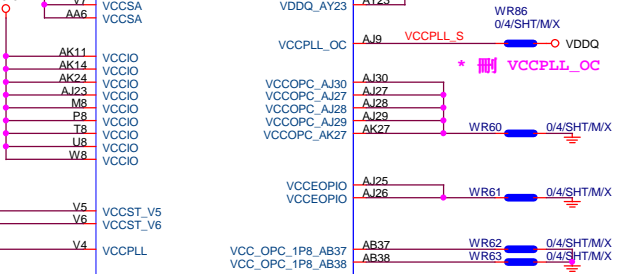
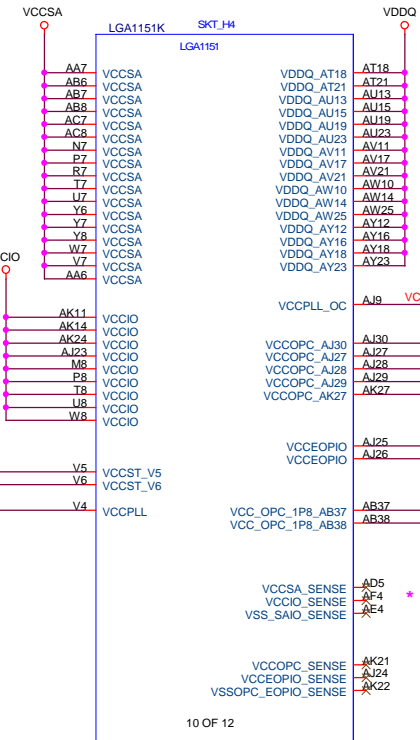
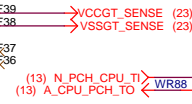
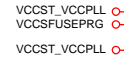
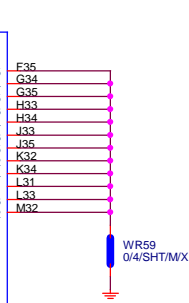
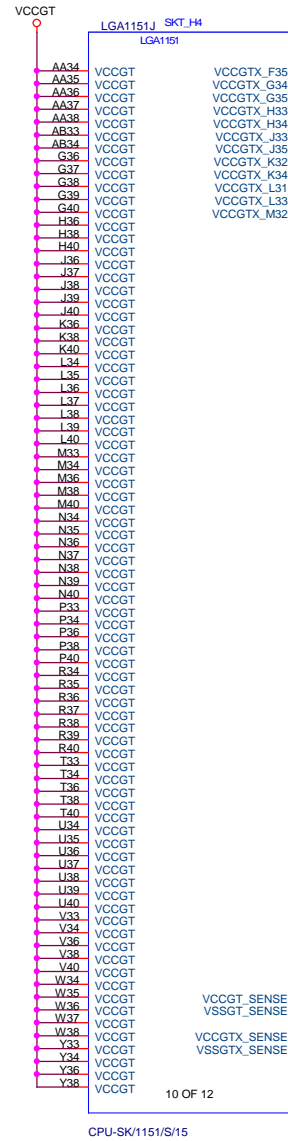
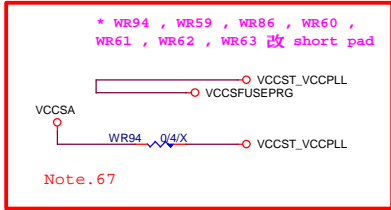
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CPU LGA1151-B			
Size	Document Number	Rev	
Custom	GA-X150M-PLUS WS	1.0	
Date:	Wednesday, October 09, 2015	Sheet	5 of 50

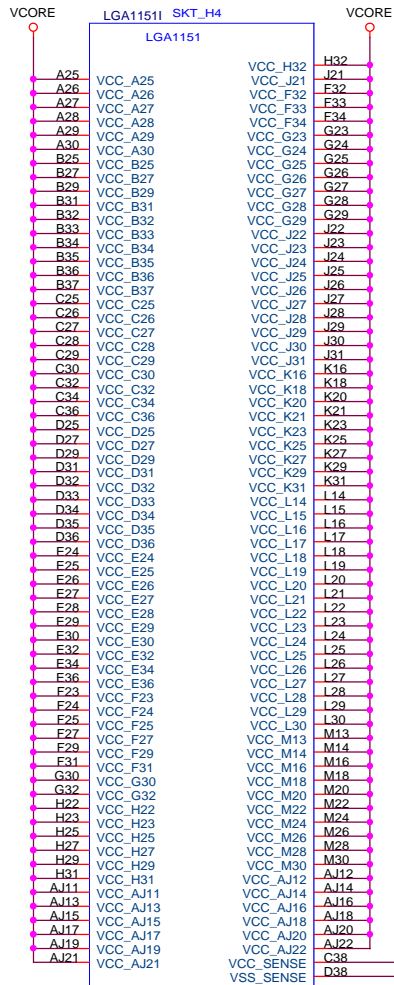


\* 刪 WBC124 , WBC125 , WBC126 , WBC127 電容



\* 刪 VCCGT 電容







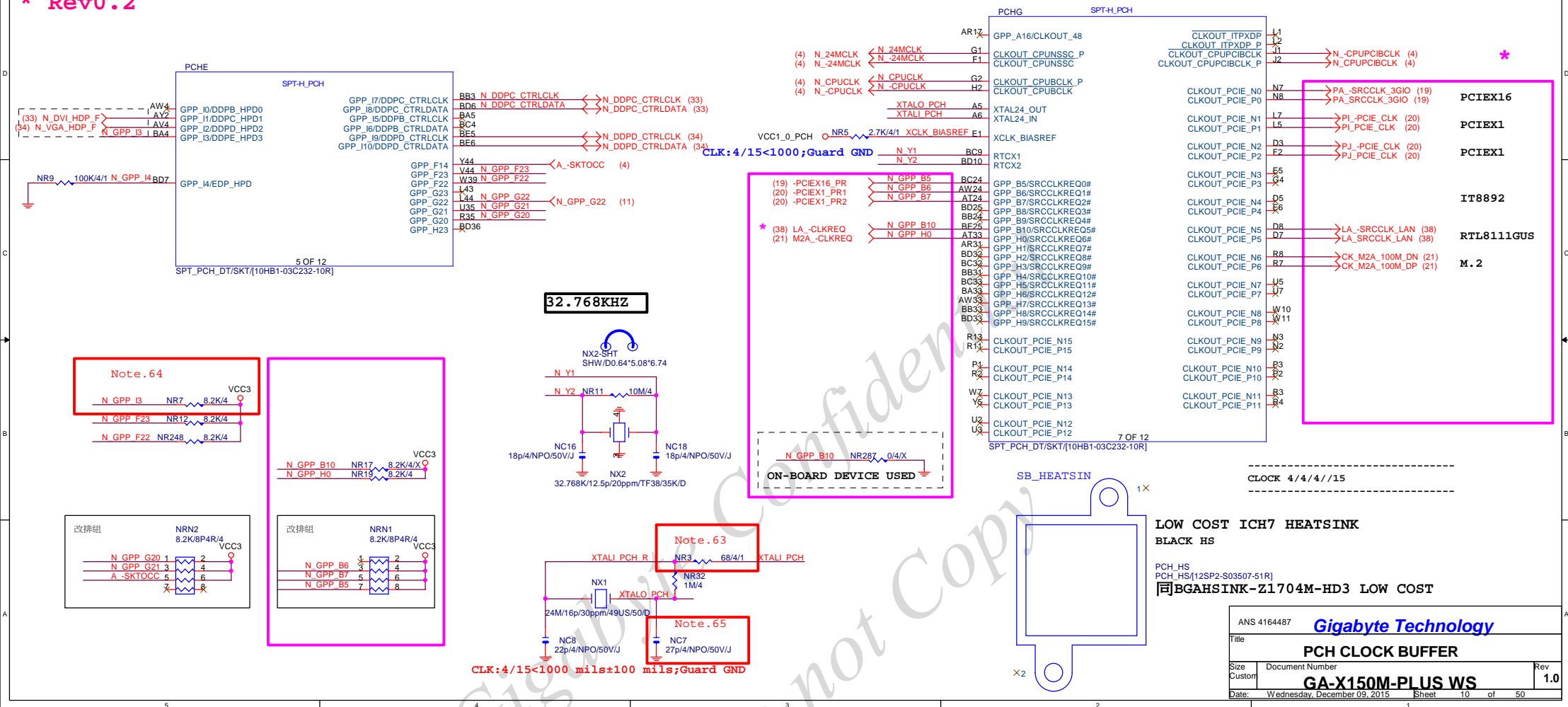


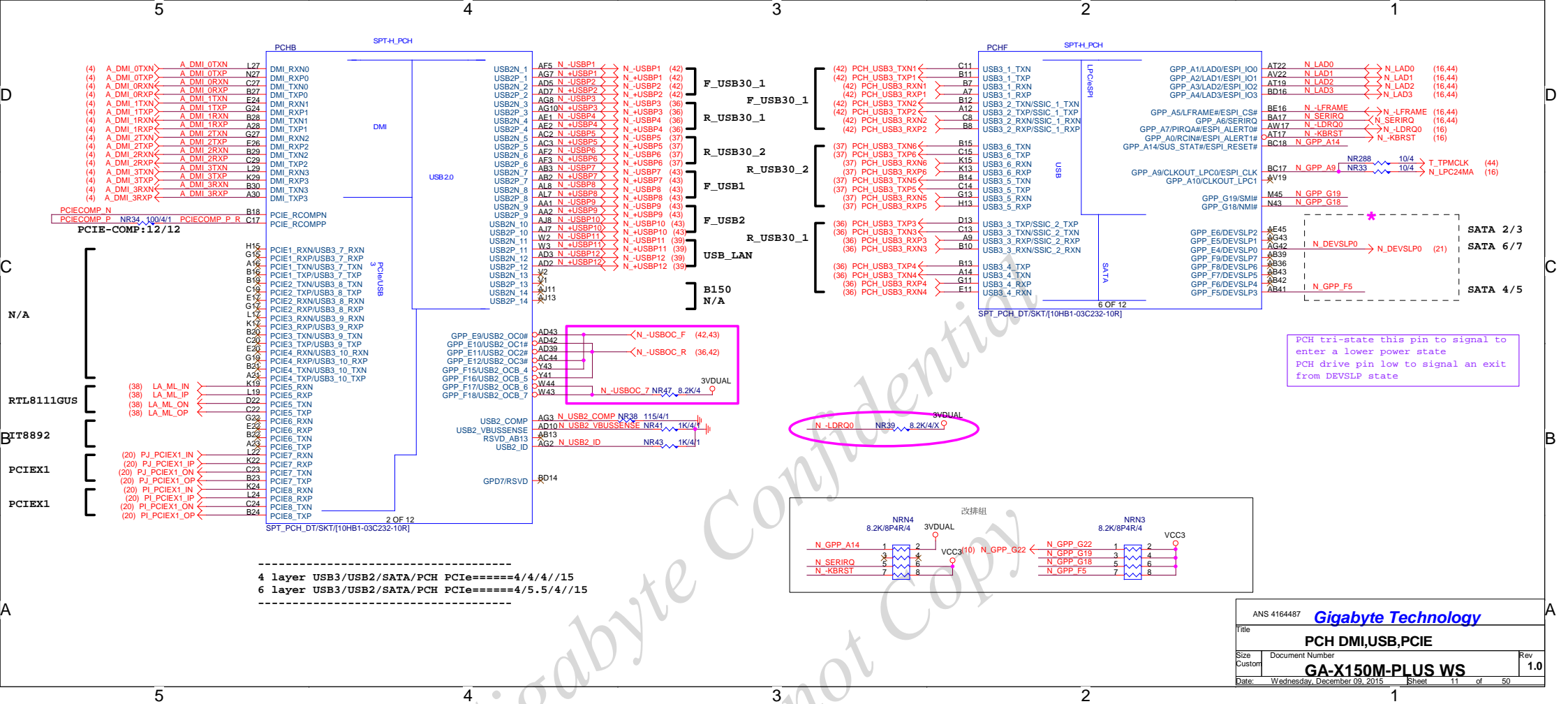


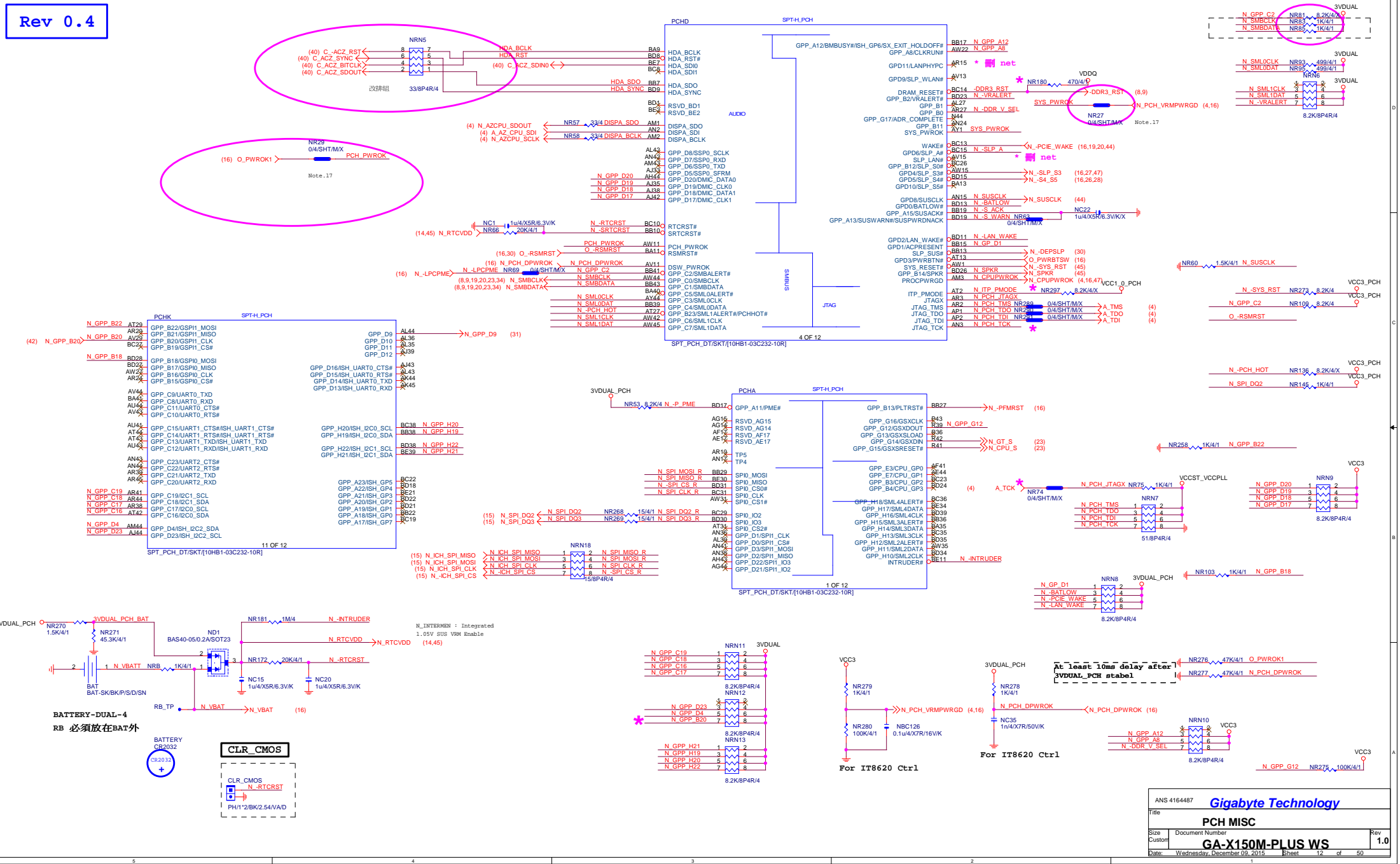


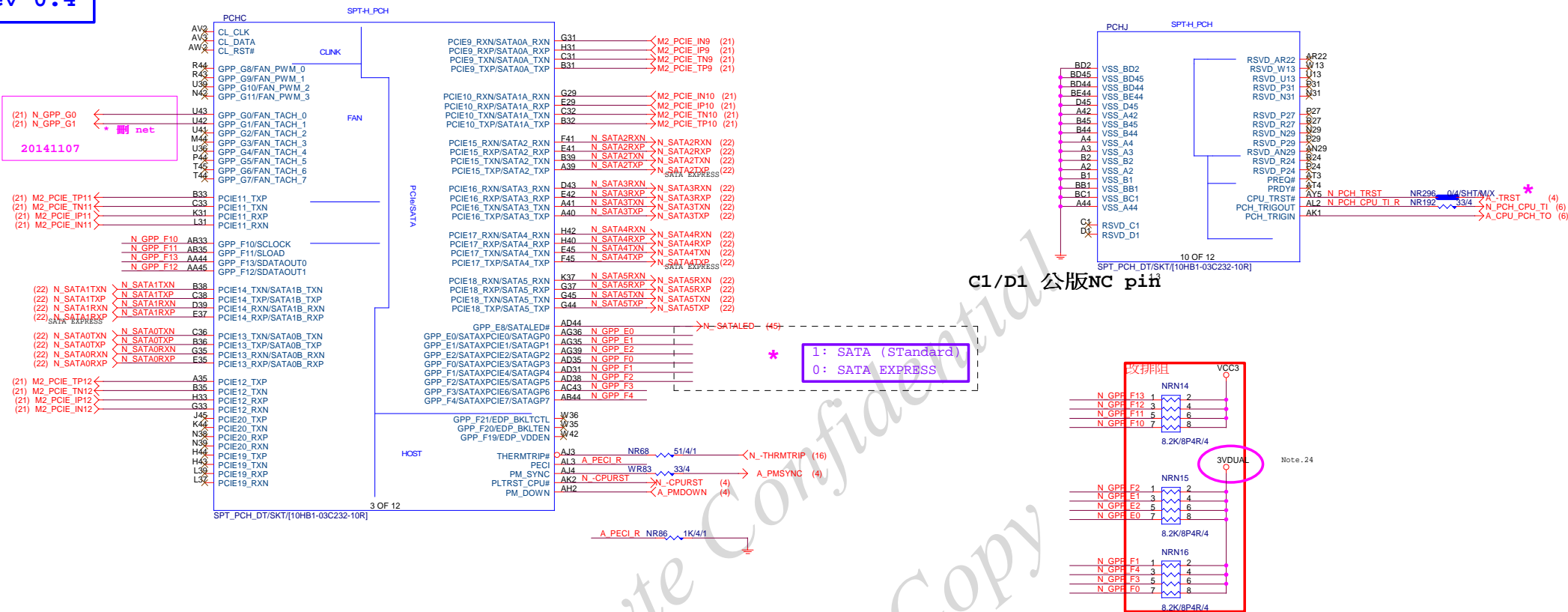
Gigabyte Confidential  
Do not Copy

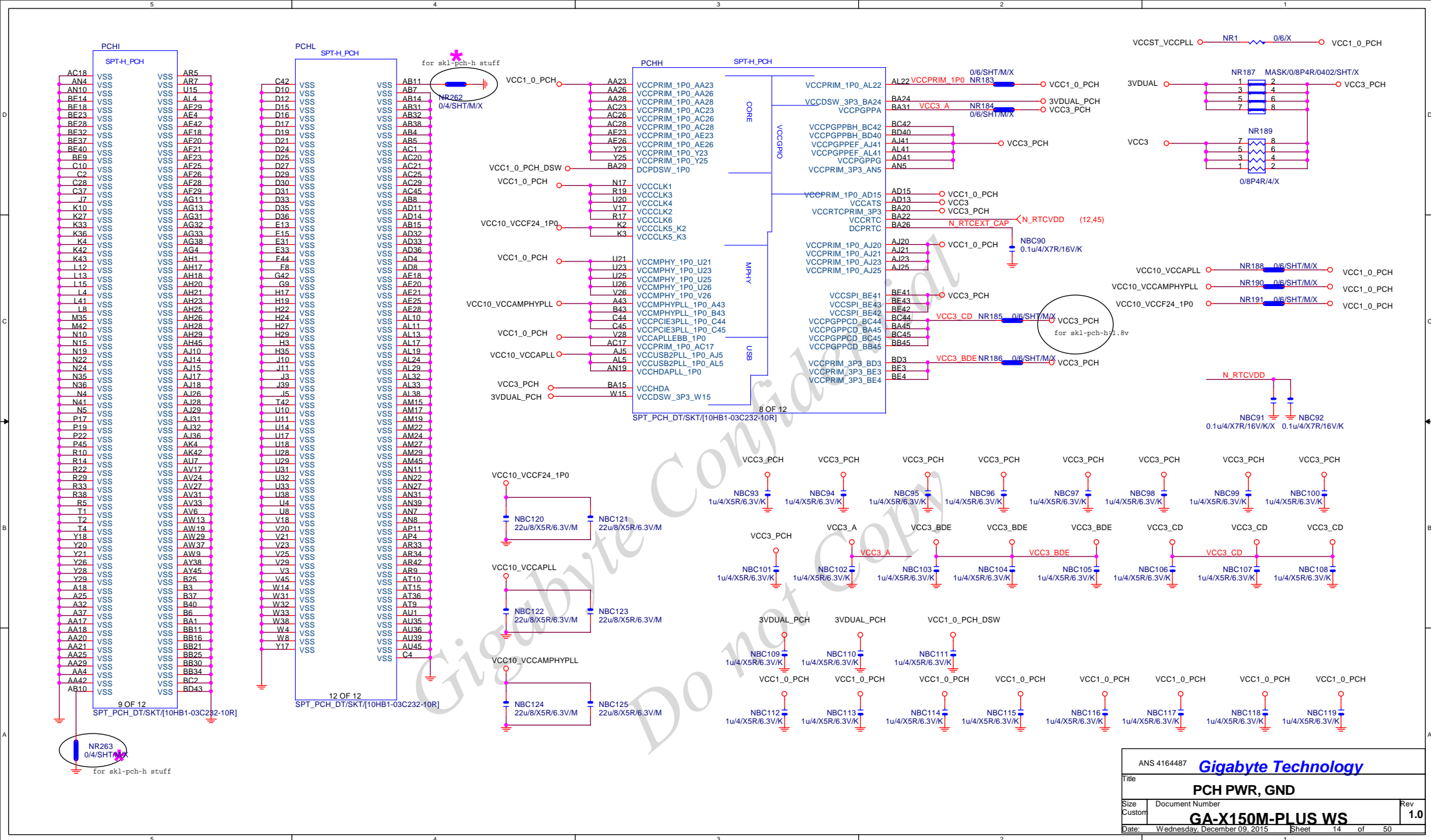
\* Rev0.2







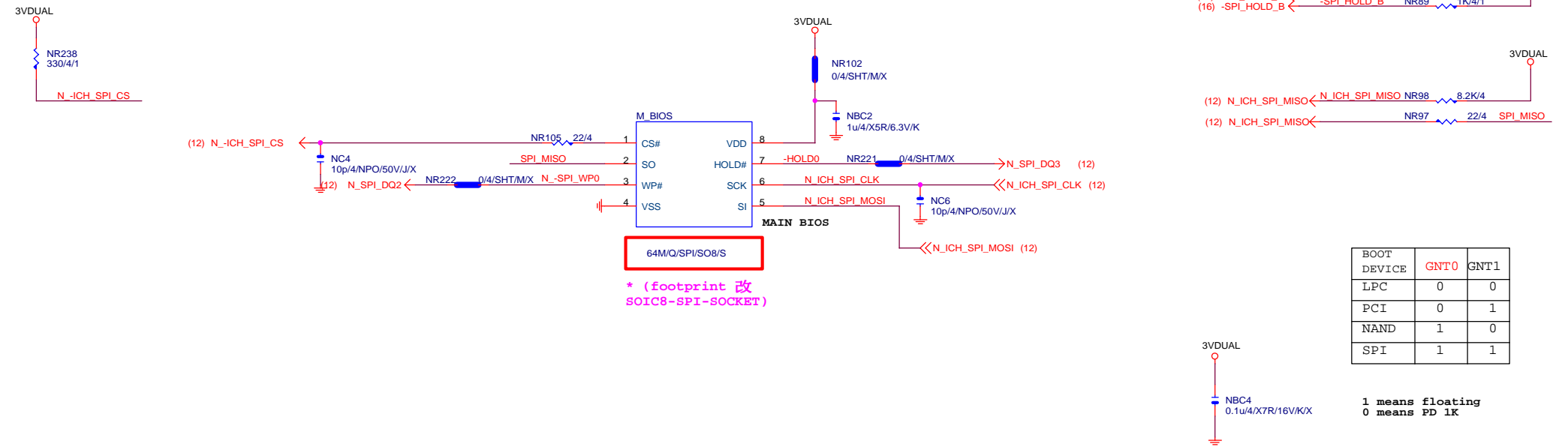




Rev 0.1

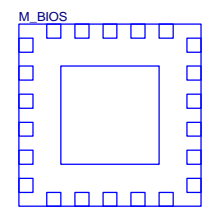
BIOS

MOSI For DMI RX Termination Voltage



64M/Q/SPI/SO8/S

\* (footprint 改  
SOIC8-SPI-SOCKET)



LCP/G-FL/1.27mm/200MIL/WHITE[10SL2-000008-31R]X

\* 試産先上, PVT 移除

BIOS\_PH

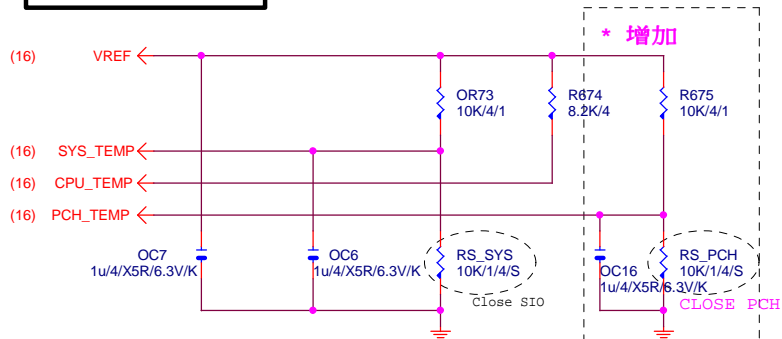




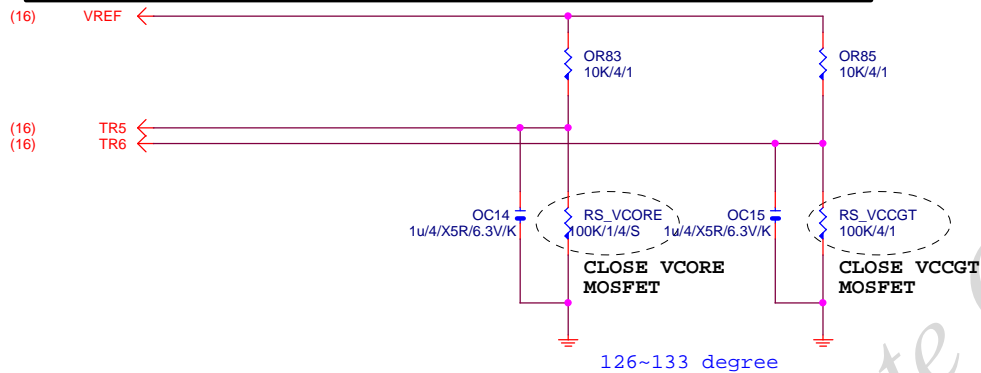
Gigabyte Technology	
Title ITE 8628 LPC IO	
Size B	Document Number GA-X150M-PL
Date: Wednesday, December 09, 2015	Sheet 16 of 16

## TEMP H/W MONITOR

REV 1.04



## RS\_VCORE, RS\_VCCGT, CLOSE CPU\_VCORE &amp; VCCGT MOSFET

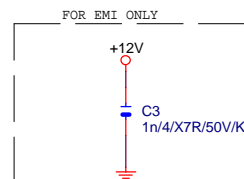
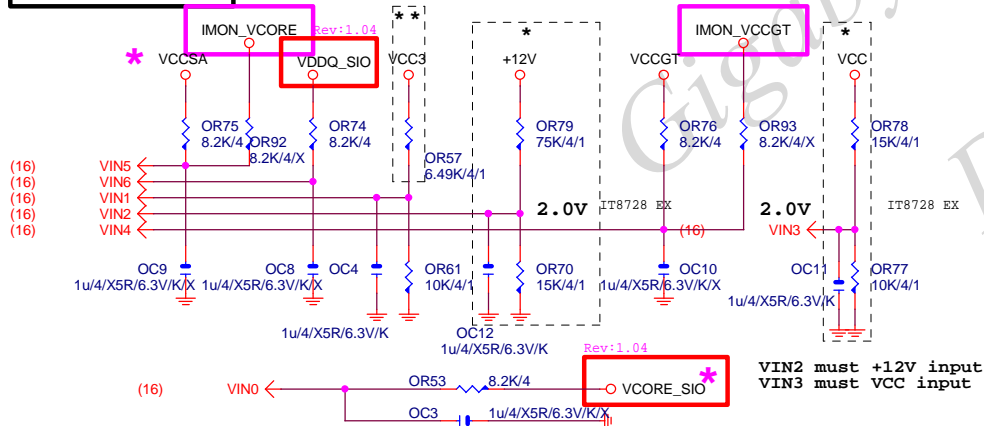
~~PROCHOT: 有mos heartsink不用prochot function~~

## VOLTAGE-- H/W MONITOR

Connect to PWM

★ IT8728 BX  
★★ IT8728 CX

Connect to PWM

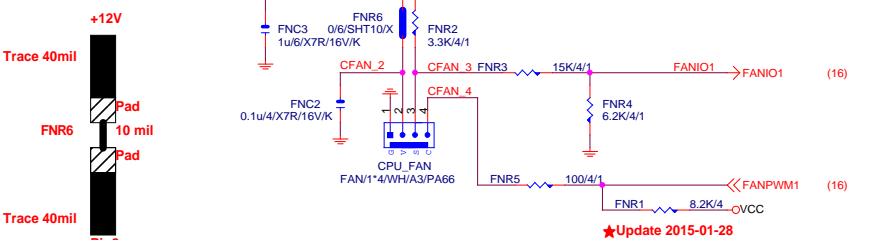


Gigabyte Technology

Title			HWM,KB/MS, FAN CTRL		
Size	Document Number				Rev
Custom	GA-X150M-PLUS WS				1.0
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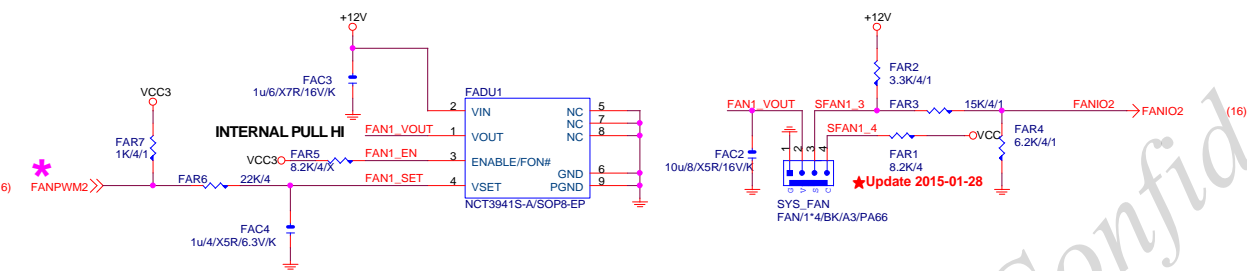
CPU SMART FAN

Rev: 0.53



SYSTEM FAN1

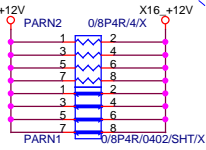
A. Linear SYS\_FAN  
Enable Function (NCT3941S)  
Full Turn On Function (NCT3941S-A)



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Rev 0.2

```
+12 _protect
short-wire test
```



PA\_EXP\_RXP[0..15] >> PA\_EXP\_RXP[0..15] (4)  
 PA\_EXP\_RXN[0..15] >> PA\_EXP\_RXN[0..15] (4)  
 PA\_EXP\_TXP[0..15] >> PA\_EXP\_TXP[0..15] (4)  
 PA\_EXP\_TXN[0..15] >> PA\_EXP\_TXN[0..15] (4)

PA EXP TXP0	PA C5	0.22u4/5KSR/6.3V/K	PA EXP TXP0_C
PA EXP TXN0	PA C4	0.22u4/5KSR/6.3V/K	PA EXP TXN0_C
PA EXP TXP1	PA C6	0.22u4/5KSR/6.3V/K	PA EXP TXP1_C
PA EXP TXN1	PA C7	0.22u4/5KSR/6.3V/K	PA EXP TXN1_C
PA EXP TXP2	PA C8	0.22u4/5KSR/6.3V/K	PA EXP TXP2_C
PA EXP TXN2	PA C9	0.22u4/5KSR/6.3V/K	PA EXP TXN2_C
PA EXP TXP3	PA C10	0.22u4/5KSR/6.3V/K	PA EXP TXP3_C
PA EXP TXN3	PA C11	0.22u4/5KSR/6.3V/K	PA EXP TXN3_C
PA EXP TXP4	PA C12	0.22u4/5KSR/6.3V/K	PA EXP TXP4_C
PA EXP TXN4	PA C13	0.22u4/5KSR/6.3V/K	PA EXP TXN4_C
PA EXP TXP5	PA C14	0.22u4/5KSR/6.3V/K	PA EXP TXP5_C
PA EXP TXN5	PA C15	0.22u4/5KSR/6.3V/K	PA EXP TXN5_C
PA EXP TXP6	PA C16	0.22u4/5KSR/6.3V/K	PA EXP TXP6_C
PA EXP TXN6	PA C17	0.22u4/5KSR/6.3V/K	PA EXP TXN6_C
PA EXP TXP7	PA C18	0.22u4/5KSR/6.3V/K	PA EXP TXP7_C
PA EXP TXN7	PA C19	0.22u4/5KSR/6.3V/K	PA EXP TXN7_C
PA EXP TXP8	PA C21	0.22u4/5KSR/6.3V/K	PA EXP TXP8_C
PA EXP TXN8	PA C20	0.22u4/5KSR/6.3V/K	PA EXP TXN8_C
PA EXP TXP9	PA C22	0.22u4/5KSR/6.3V/K	PA EXP TXP9_C
PA EXP TXN9	PA C23	0.22u4/5KSR/6.3V/K	PA EXP TXN9_C
PA EXP TXP10	PA C24	0.22u4/5KSR/6.3V/K	PA EXP TXP10_C
PA EXP TXN10	PA C25	0.22u4/5KSR/6.3V/K	PA EXP TXN10_C
PA EXP TXP11	PA C26	0.22u4/5KSR/6.3V/K	PA EXP TXP11_C
PA EXP TXN11	PA C27	0.22u4/5KSR/6.3V/K	PA EXP TXN11_C
PA EXP TXP12	PA C28	0.22u4/5KSR/6.3V/K	PA EXP TXP12_C
PA EXP TXN12	PA C29	0.22u4/5KSR/6.3V/K	PA EXP TXN12_C
PA EXP TXP13	PA C30	0.22u4/5KSR/6.3V/K	PA EXP TXP13_C
PA EXP TXN13	PA C31	0.22u4/5KSR/6.3V/K	PA EXP TXN13_C
PA EXP TXP14	PA C32	0.22u4/5KSR/6.3V/K	PA EXP TXP14_C
PA EXP TXN14	PA C33	0.22u4/5KSR/6.3V/K	PA EXP TXN14_C
PA EXP TXP15	PA C34	0.22u4/5KSR/6.3V/K	PA EXP TXP15_C
PA EXP TXN15	PA C35	0.22u4/5KSR/6.3V/K	PA EXP TXN15_C

PCIEX16:16/5/5/5/16

PCI-E REV:1.1--&gt; 2.5GHZ

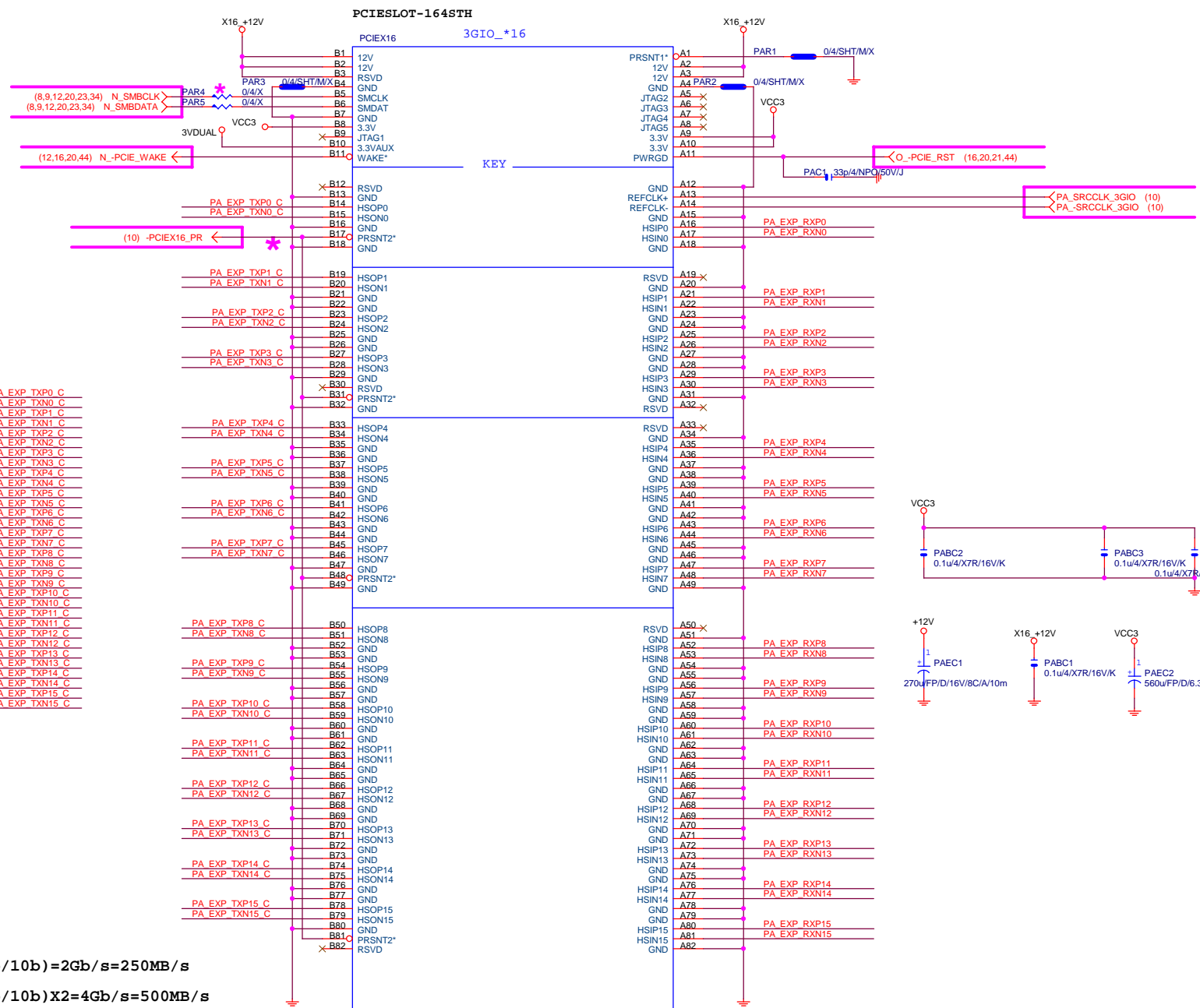
PCE-E X1(單向) BANDWIDTH=2.5GHz\*(8b/10b)=2Gb/s=250MB/s

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

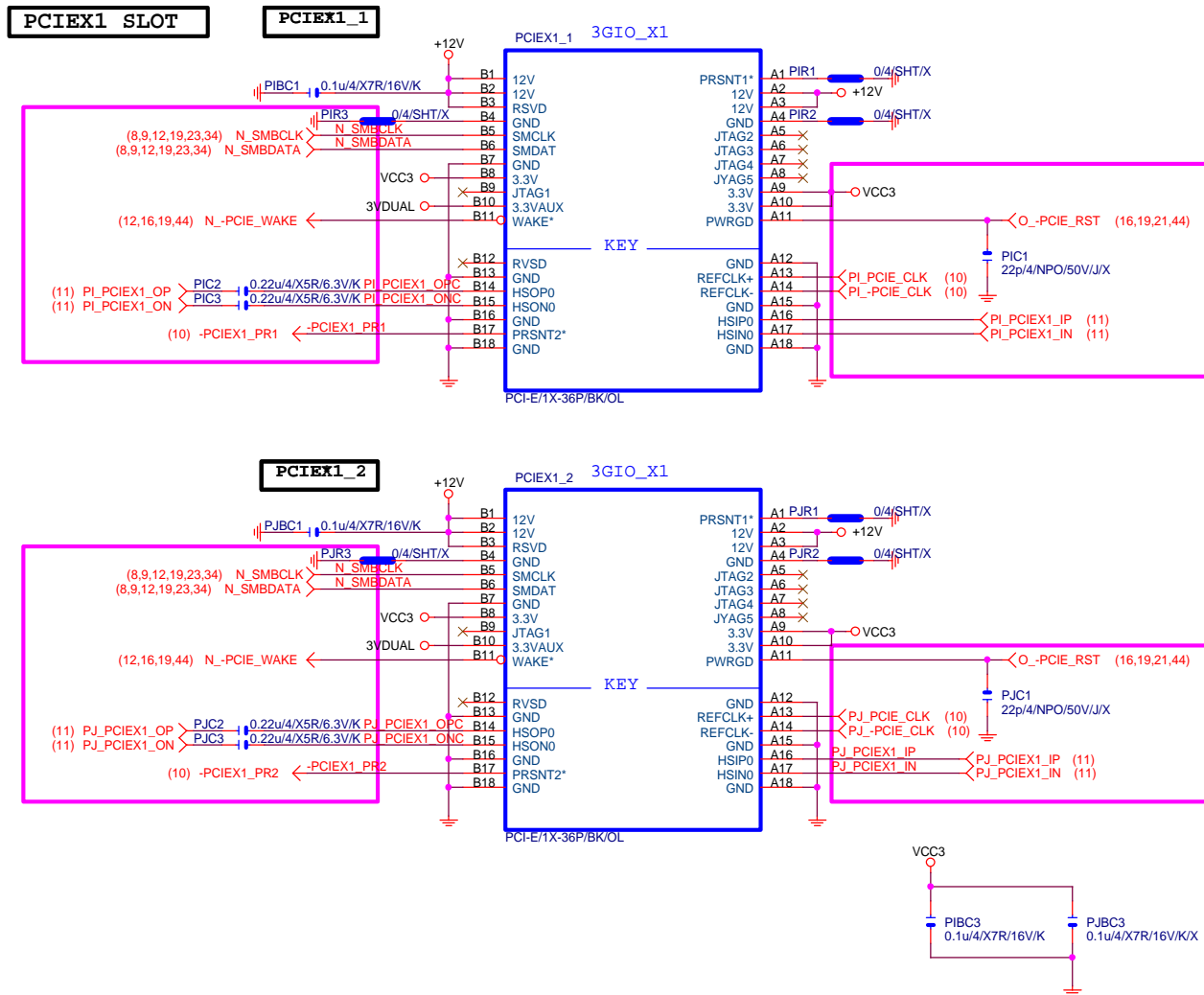
PCI-E REV:2.0--&gt; 5GHZ



PCI-E/16X-164P/GY/LONG DOUBLE/HK\*2/[11AC1-023164-J1R

**Gigabyte Technology**

Title			
PCI EXPRESS * 16			
Size Custom	Document Number	GA-X150M-PLUS WS	Rev 1.0
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Title				
PCIE_X1 1,2				
Size	Document Number			Rev
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## M.2 Lane4 from PCH port18

(13) M2\_PCIE\_IN12  
(13) M2\_PCIE\_IP12

## M.2 Lane3 from PCH port17

(13) M2\_PCIE\_TN12  
(13) M2\_PCIE\_TP12

## M.2 Lane2 from PCH port16

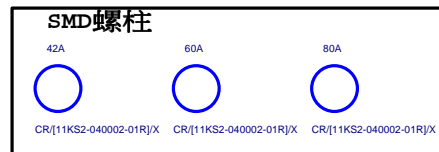
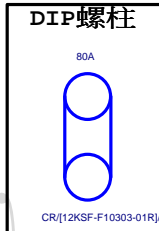
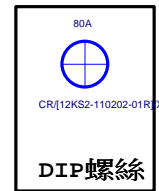
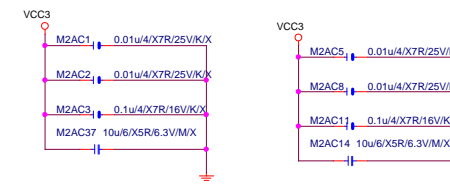
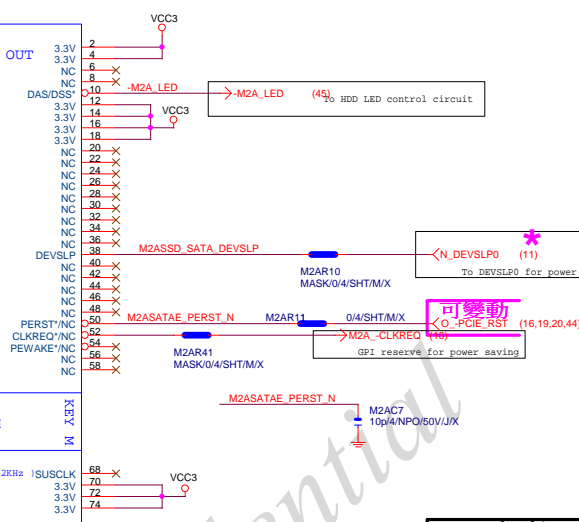
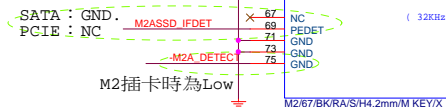
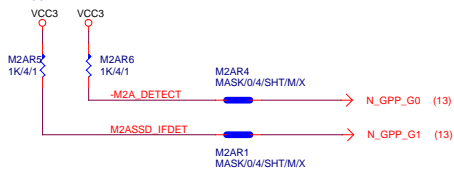
(13) M2\_PCIE\_TN10  
(13) M2\_PCIE\_TP10

## M.2 Lane2 from PCH port15

(13) M2\_PCIE\_TN9  
(13) M2\_PCIE\_TP9

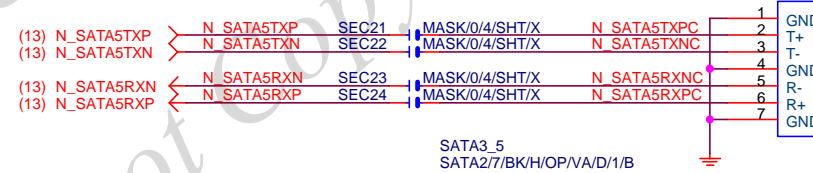
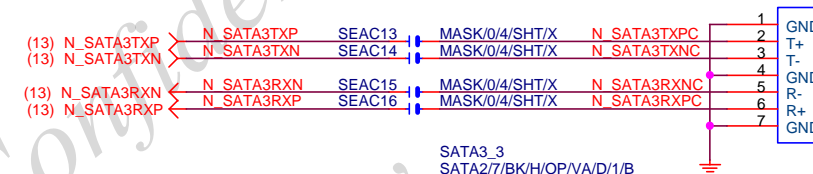
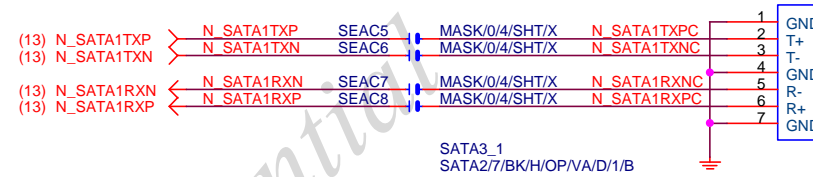
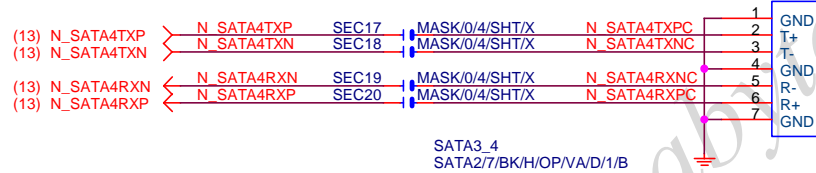
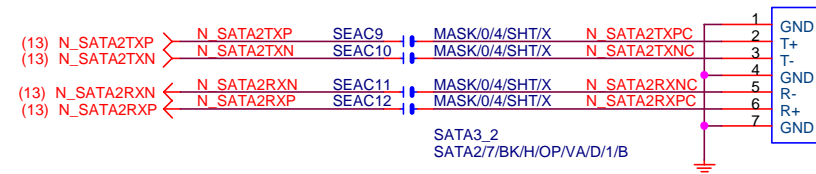
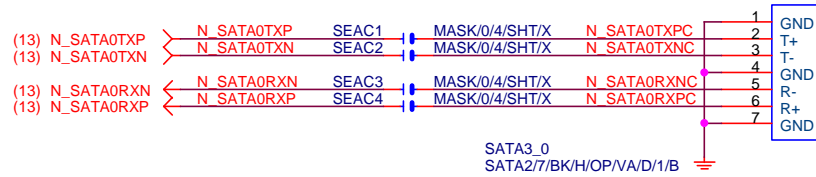
需與M2\_-CLKREQ對應

## 支援SATA and M.2 function



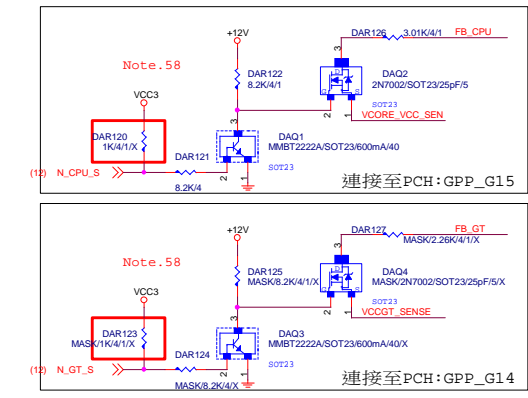
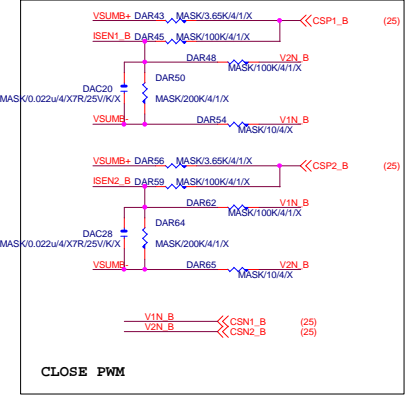
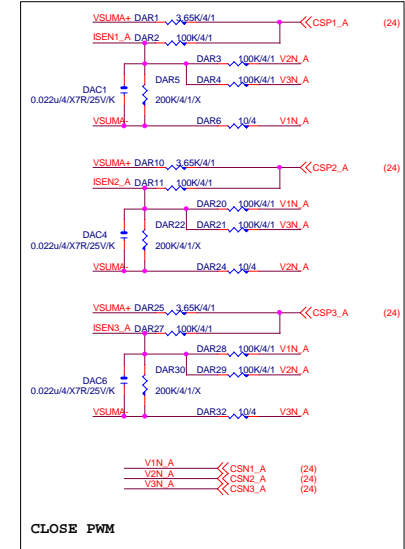
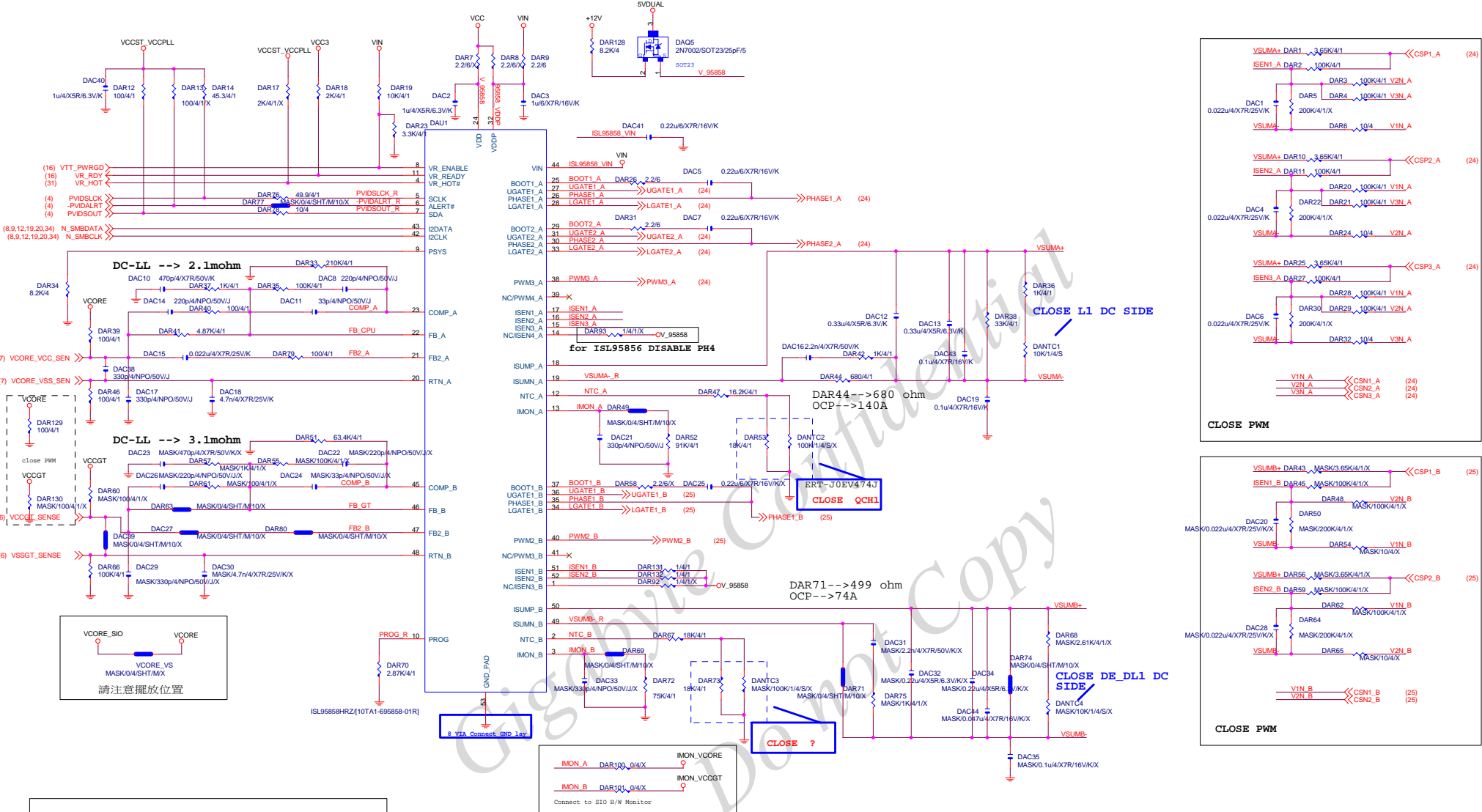
M.2 有插卡 /沒插卡 GPP_G0	M.2插何種卡? GPP_G1	SATA Express 插何種硬碟? GPP_E0/E2/F1	IO15 (S0)	IO16 (S1)	IO17	IO18	IO19 (S0)	IP20 (S1)
有插卡 (Low)	SATA Mode (Low)	SATA (Hi)	SATA (M.2)	PCIE x1	PCIE x1	PCIE x1	PCIE x1	SATA
		SATA Express (Low)	SATA (M.2)	PCIE x1	PCIE x1	PCIE x1	SATA Express	
	PCIE Mode (Hi)	SATA (Hi)	PCIE x4 (For M.2)				SATA	SATA
		SATA Express (Low)	PCIE x4 (For M.2)				SATA Express	
沒插卡 (Hi)	Don't Care (Hi)	SATA (Hi)	PCIE x4				SATA	SATA
		SATA Express (Low)	PCIE x4				SATA Express	

Note.40

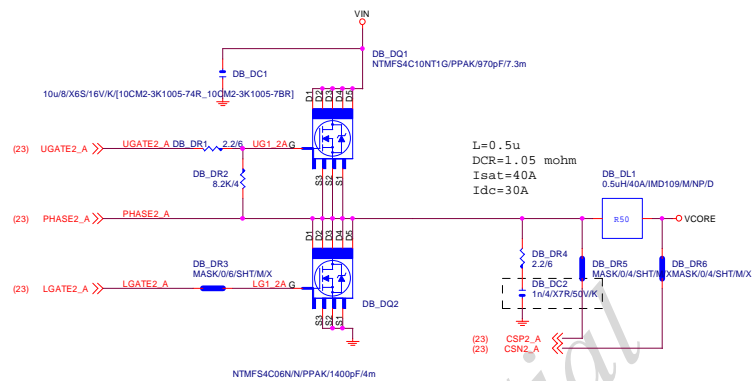
**Gigabyte Technology**Title  
**SATA EXPRESS**Size Custom Document Number  
**GA-X150M-PLUS WS** Rev 1.0

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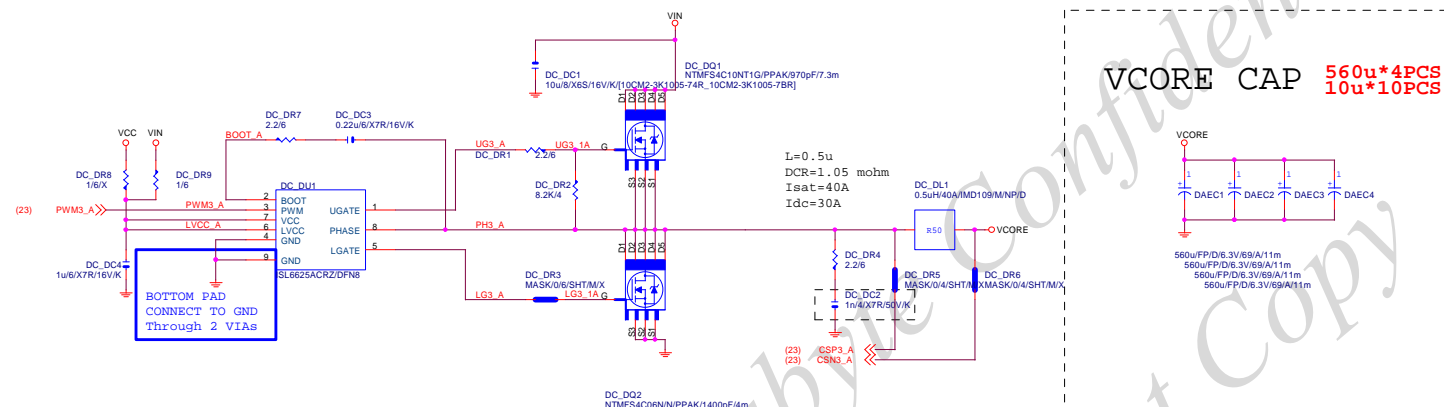
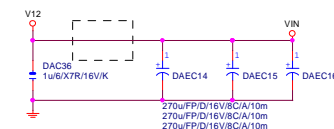
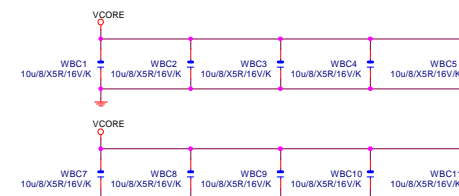
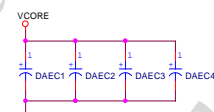




VCORE



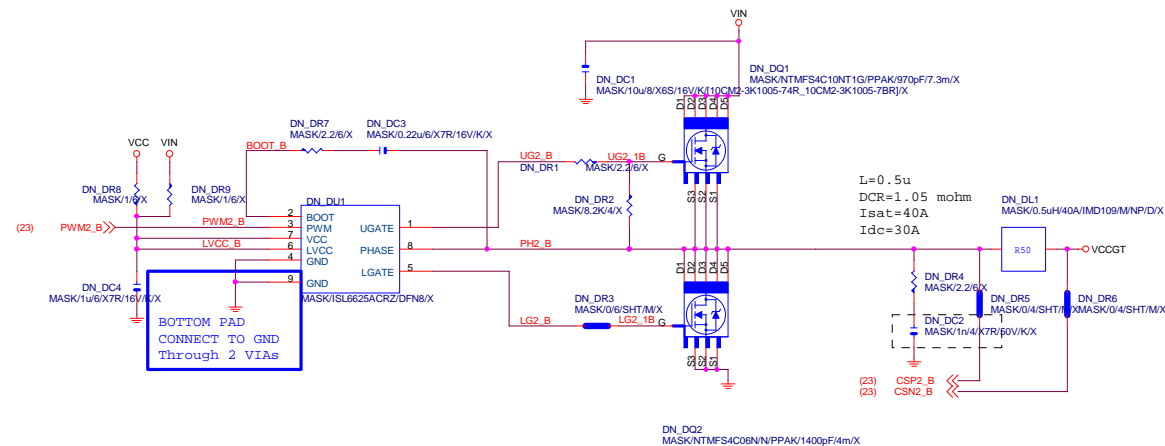
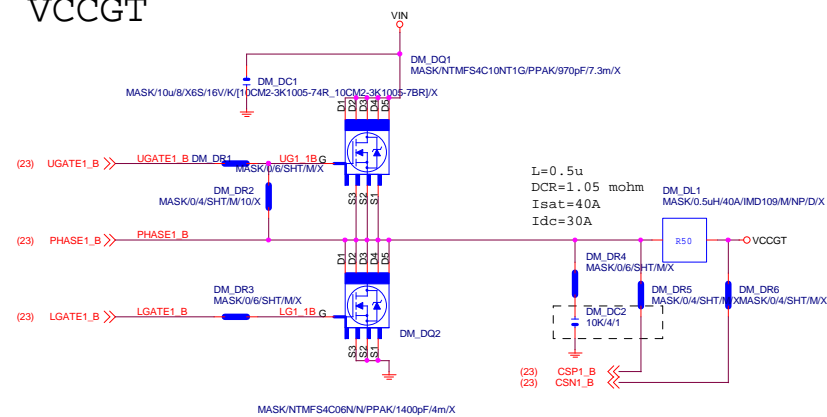
VIN CAP 270u\*3PCS

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

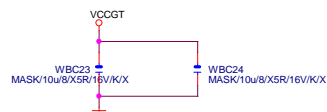
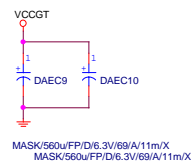
**GIGABYTE™**

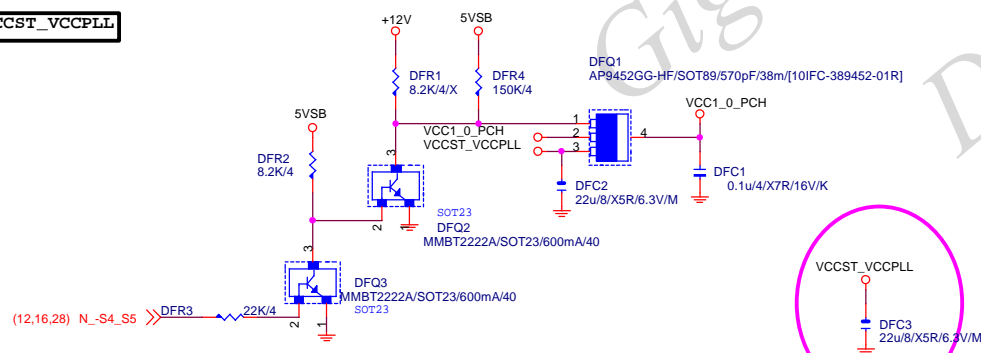
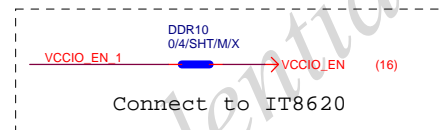
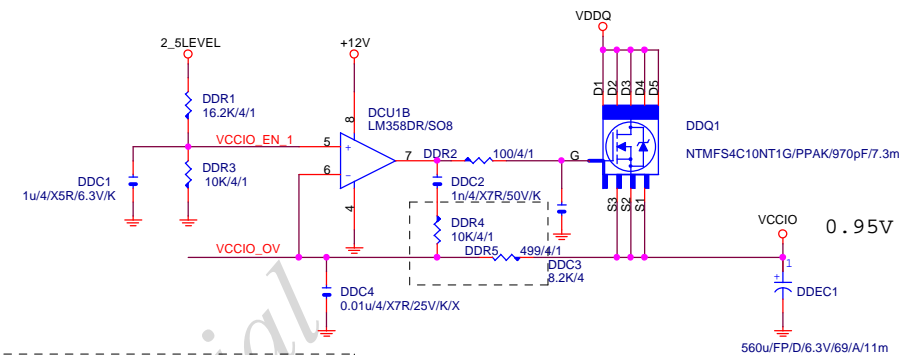
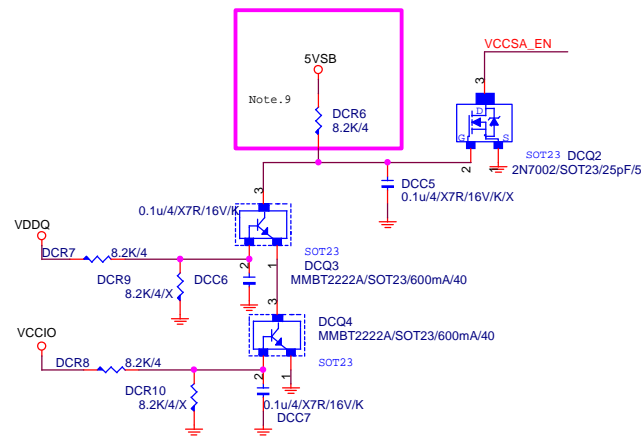
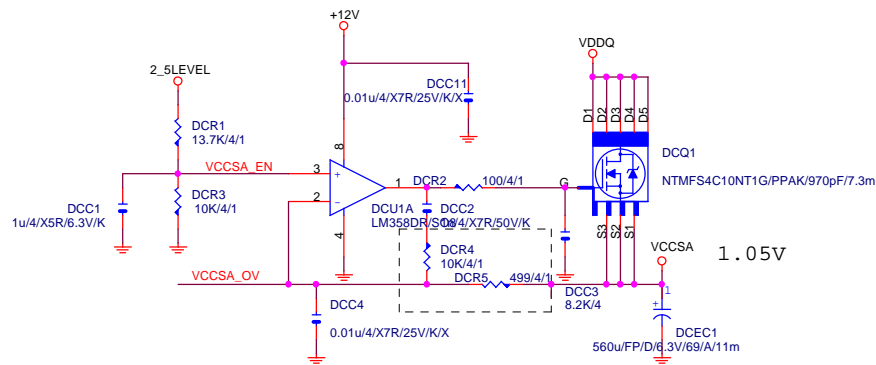
Title			
ISL95858_MOS			
Size	Document Number	Rev	
Custom	GA-X150M-PLUS WS	1.0	
Date:	Wednesday, December 09, 2015	Sheet	24 of 50

## VCCGT



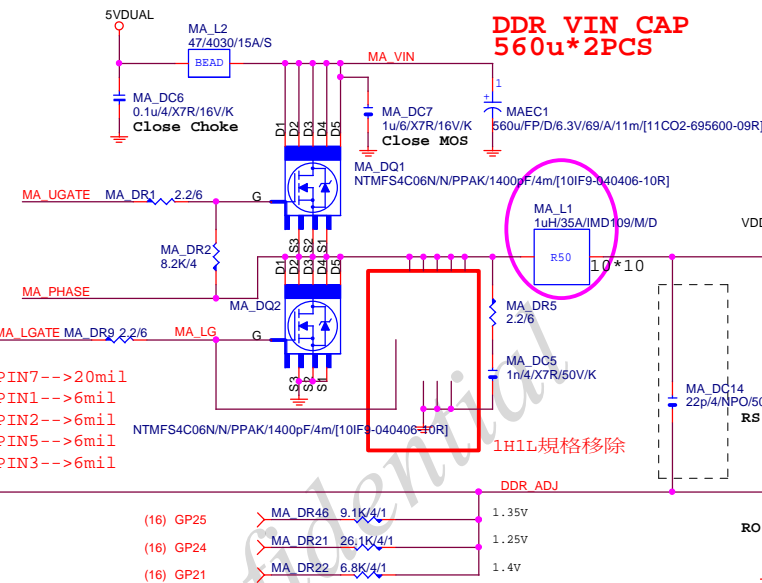
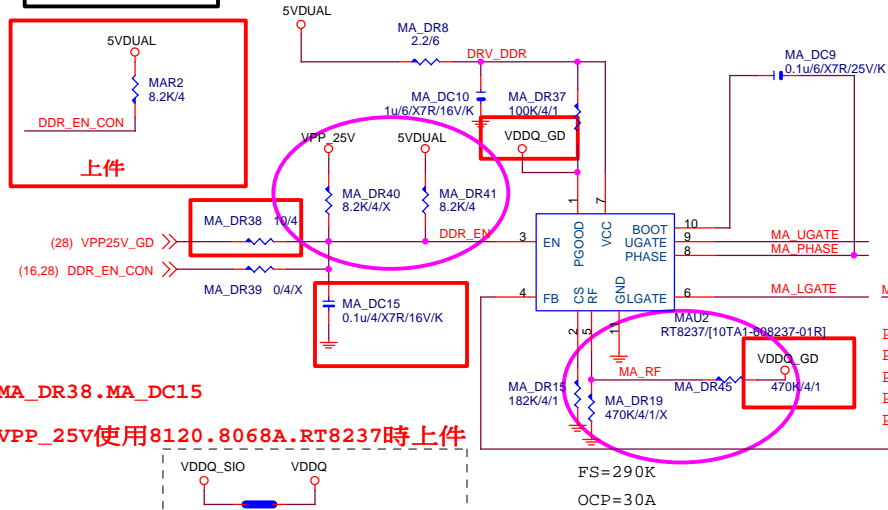
VCCGT CAP 560u\*2PCS  
10u\*2PCS





GIGABYTE™			
Title VCCSA_VCCIO			
Size	Document Number	Rev	
Custom	GA-X150M-PLUS WS	1.0	
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## DDR4



CHOKE與CAP料號可變

DDR VIN CAP  
560u\*2PCS

SUPPORT DDR4 1.2V

25A MAX  
L=0.5u  
DCR=1.05 mohm  
Isat=40A  
Idc=30A

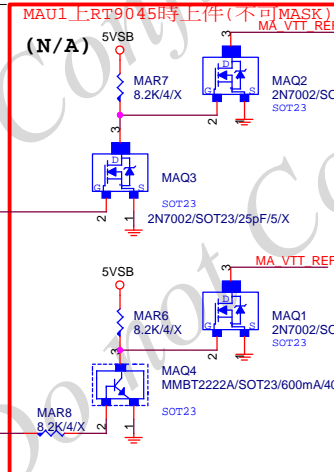
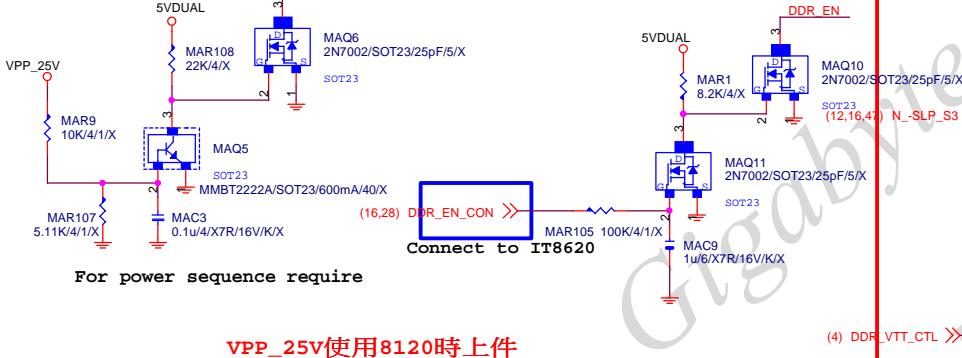
請放置CHOKE一出來位置.先預留.  
請自行確認ripple後再決定是否上件

Remote sense請從最重的負載端點拉回

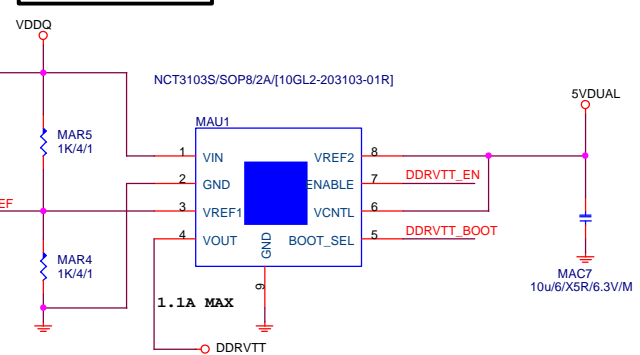
## PWR SEQ

CLOSE TO DDR POWER PLANE

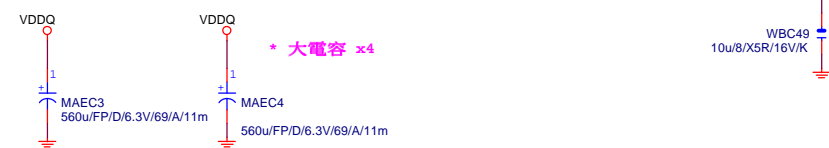
(N/A)



## DDRVTT

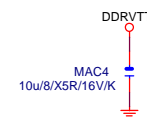


DDR CAP 560u\*4PCS 22u\*2PCS



DDRVTT CAP

大電容 \*0



GIGABYTE™

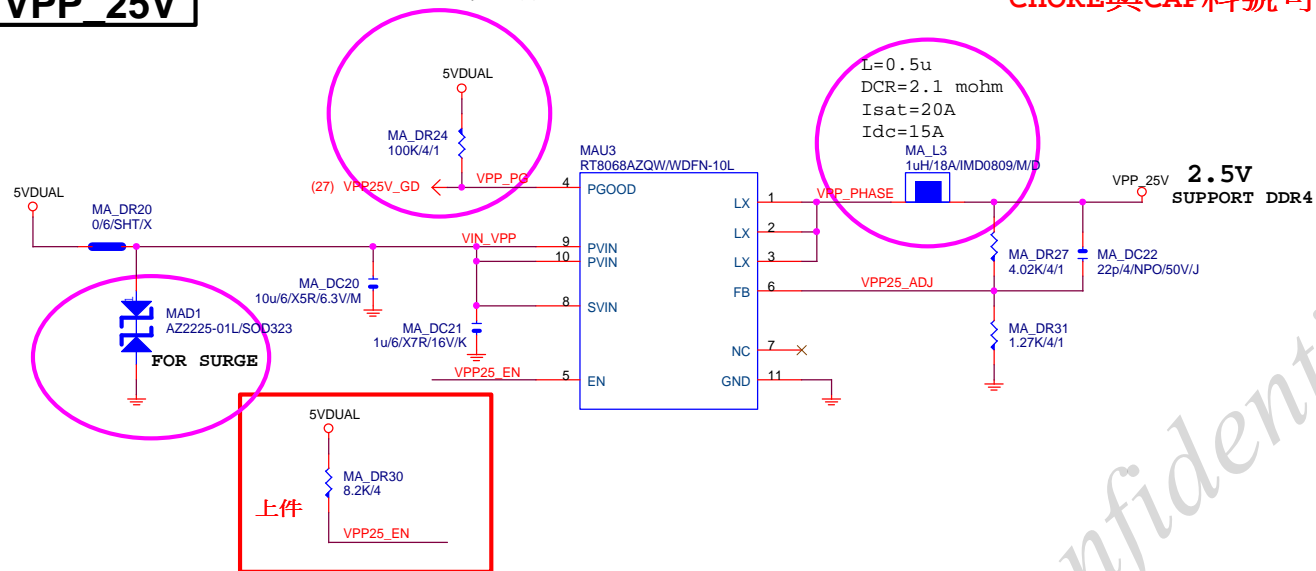
Title		
RT8120_DDR POWER		
Size	Document Number	Rev
Custom	GA-X150M-PLUS WS	1.0
Date:	Wednesday, December 09, 2015	Sheet 27 of 50

REV:0.33

VPP\_25V

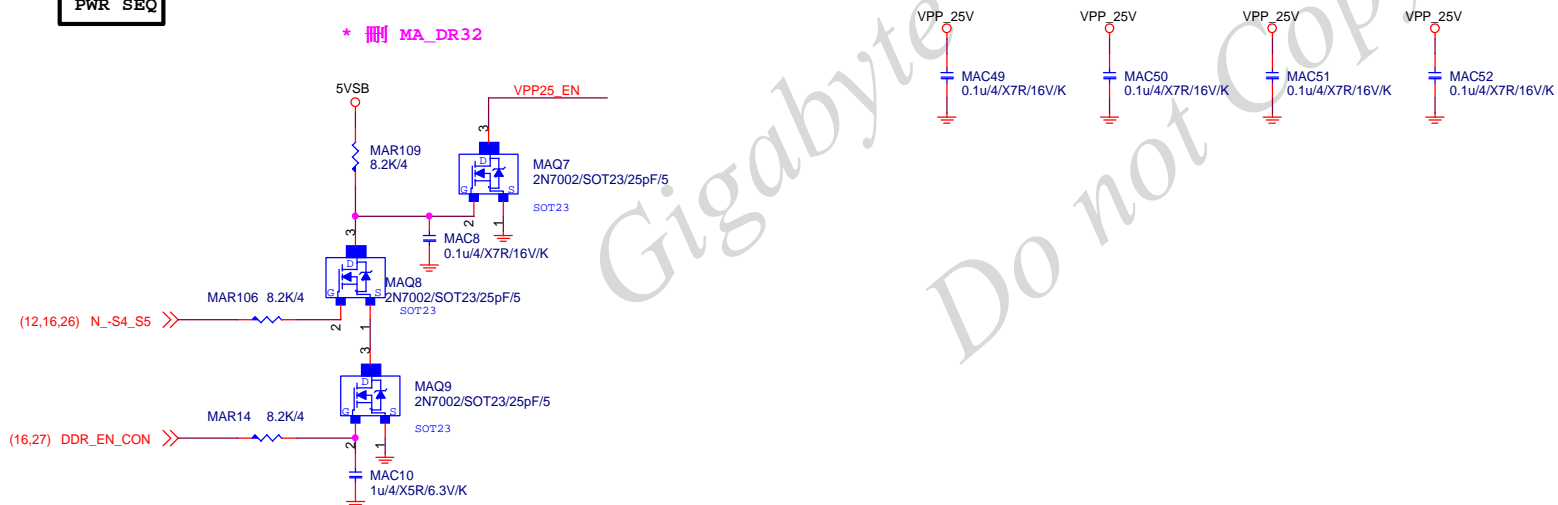
VPP25V\_GD不能使用會亂打

CHOKE與CAP料號可變



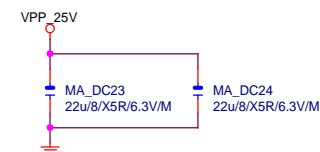
PWR\_SEQ

\* 刪 MA\_DR32



VPP CAP 22u\*1PCS

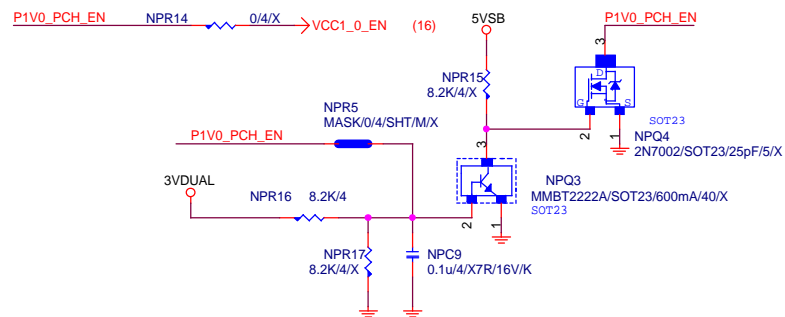
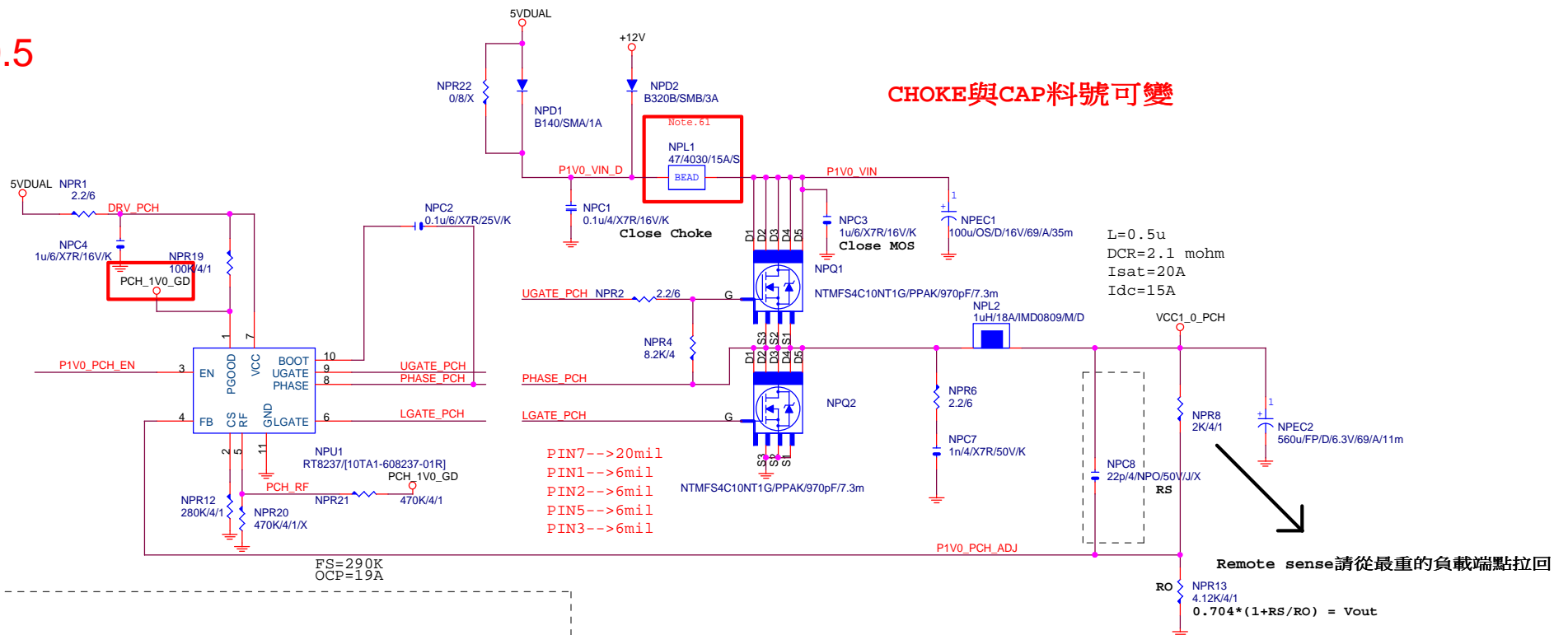
\* 大電容 x0




GIGABYTE™

Title		
RT8068A_VPP25 POWER		
Size	Document Number	Rev
Custom	GA-X150M-PLUS WS	1.0
Date:	Wednesday, December 09, 2015	Sheet 28 of 50

REV:0.5



請放置CHOKE一出來的地方

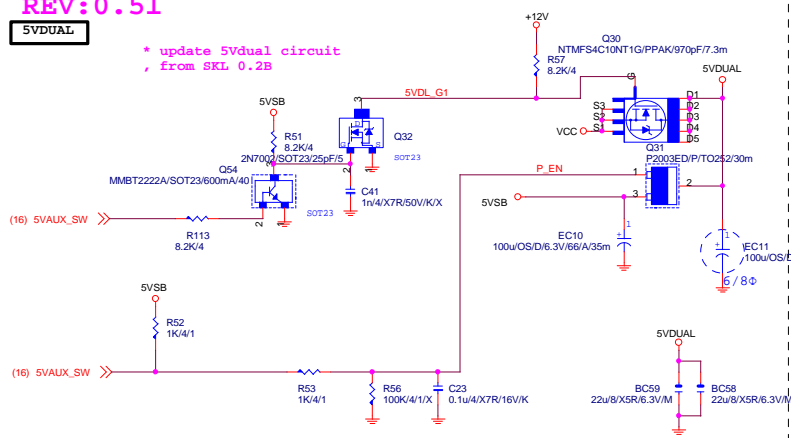
			
Title			
RT8237_PCH POWER			
Size	Document Number		Rev
Custom	GA-X150M-PLUS WS		1.0
Date:	Wednesday, December 09, 2015	Sheet	29 of 50



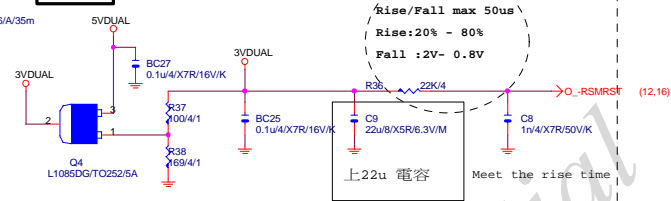
REV:0.51

# 5VDUAL

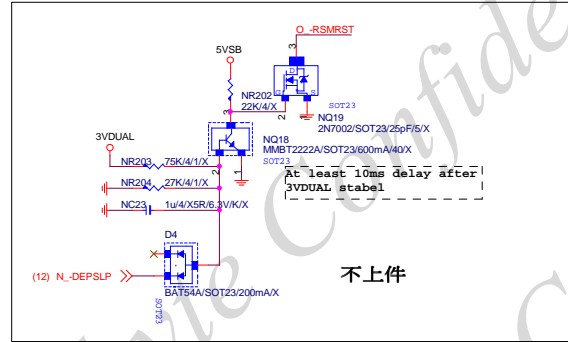
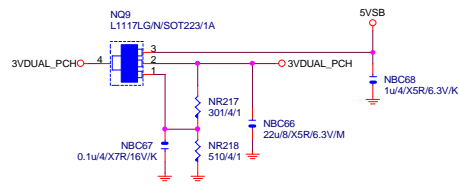
\* update 5Vdual circuit  
from SKL 0.2B



# 3VDUAL



# 3VDUAL\_PCH

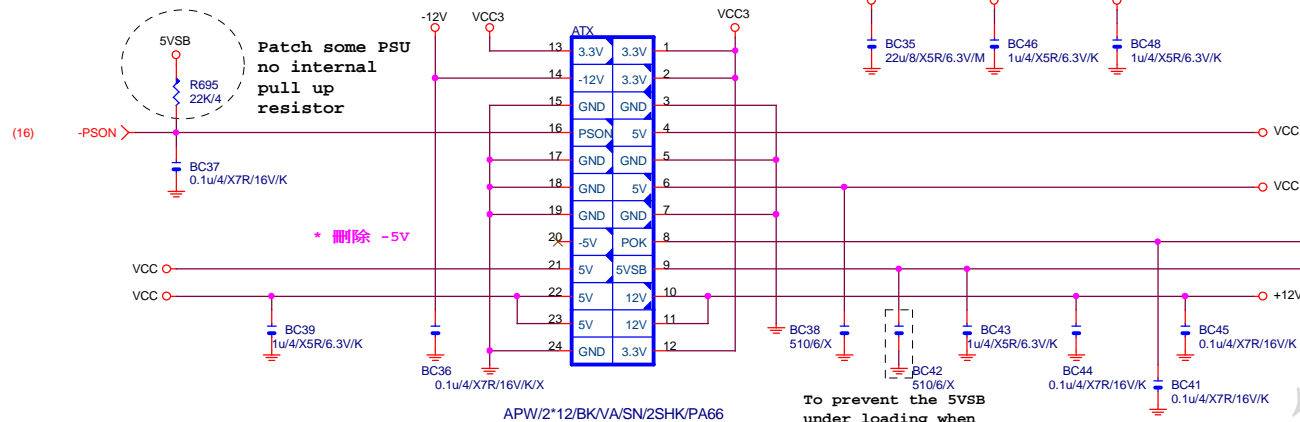


不上件

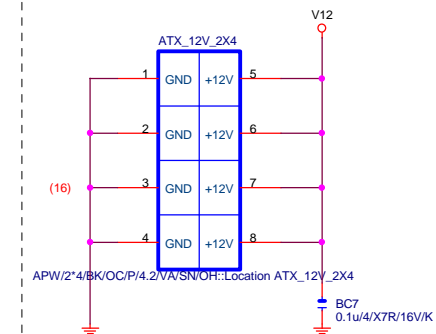
Gigabyte Technology

Title			DISCRETE POWER
Size	Document Number	GA-X150M-PLUS WS	Rev
Custom			1.0
Date:	Wednesday, December 09, 2015	Sheet	30 of 50

## ATXX24 POWER CONNECTOR

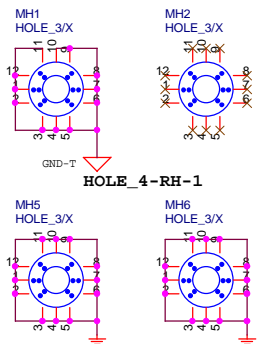


## ATXX4 POWER CONNECTOR

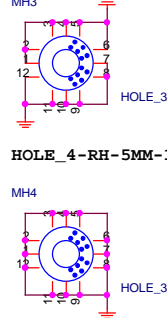


## 螺絲孔

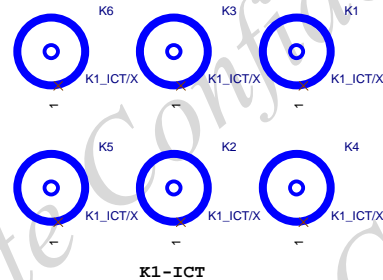
MH1:GND-T  
FOR EMI  
TEST驗證



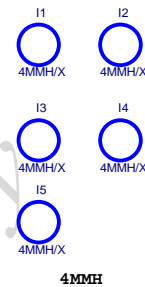
14/12/24  
Modify for EMI



## 固定孔/光學點

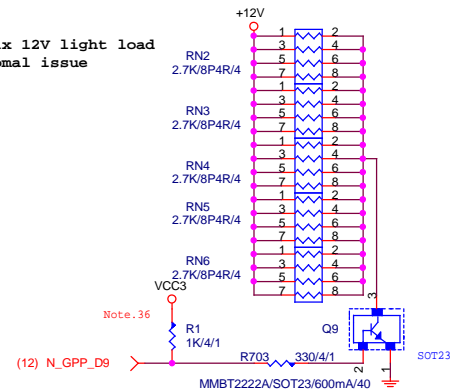


To prevent the 5VSB  
under loading when  
boot



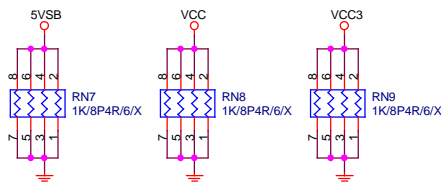
## +12V DUMMY LOAD

To fix 12V light load  
abnormal issue

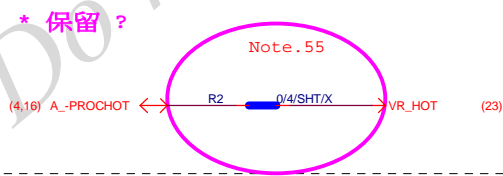


【技術通報R&D技術通報153】

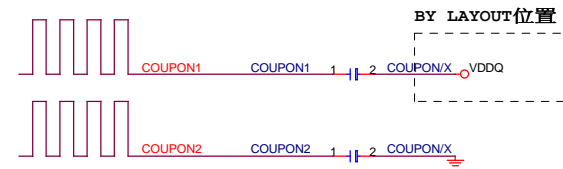
## DUMMY LOAD



## -PROHOT

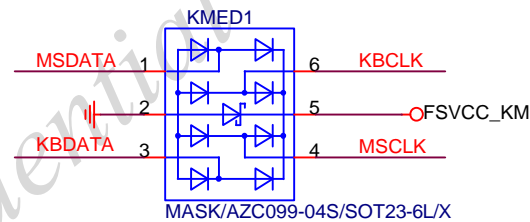
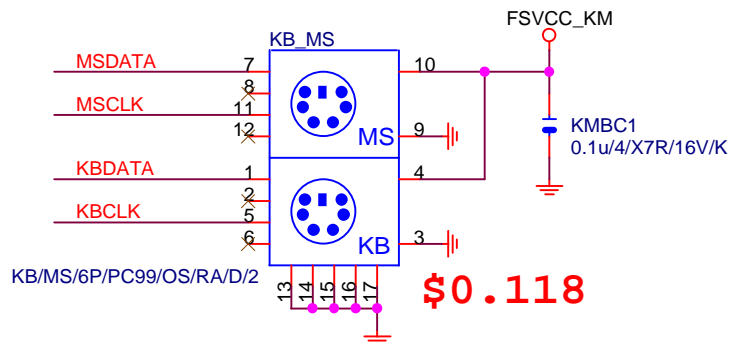


## COUPON



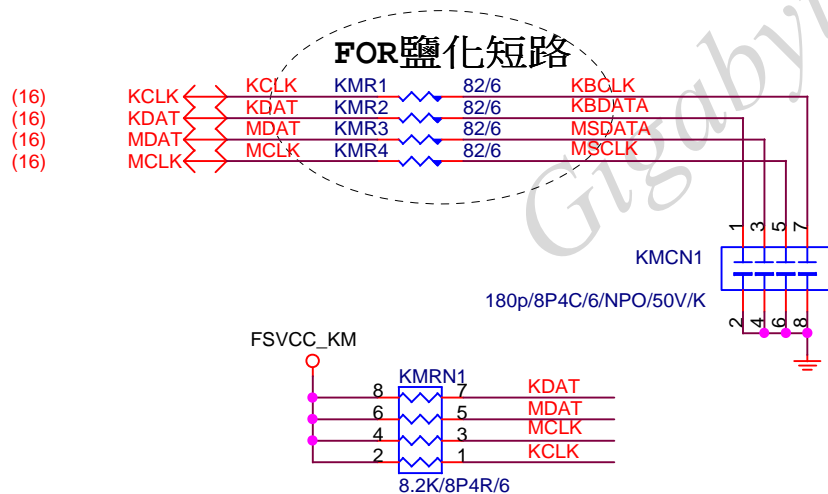
## Gigabyte Technology

Title			
ATX POWER CONNECTOR			
Size	Document Number	Rev	
Custom	GA-X150M-PLUS WS	1.0	
Date:	Wednesday, December 09, 2015	Sheet	31 of 50
	2		1



## KB\_MS\_USB DAMPING/PU

## KB\_MS\_USB PWR



Gigabyte Technology

Title

KB\_MS\_USB

Size  
A

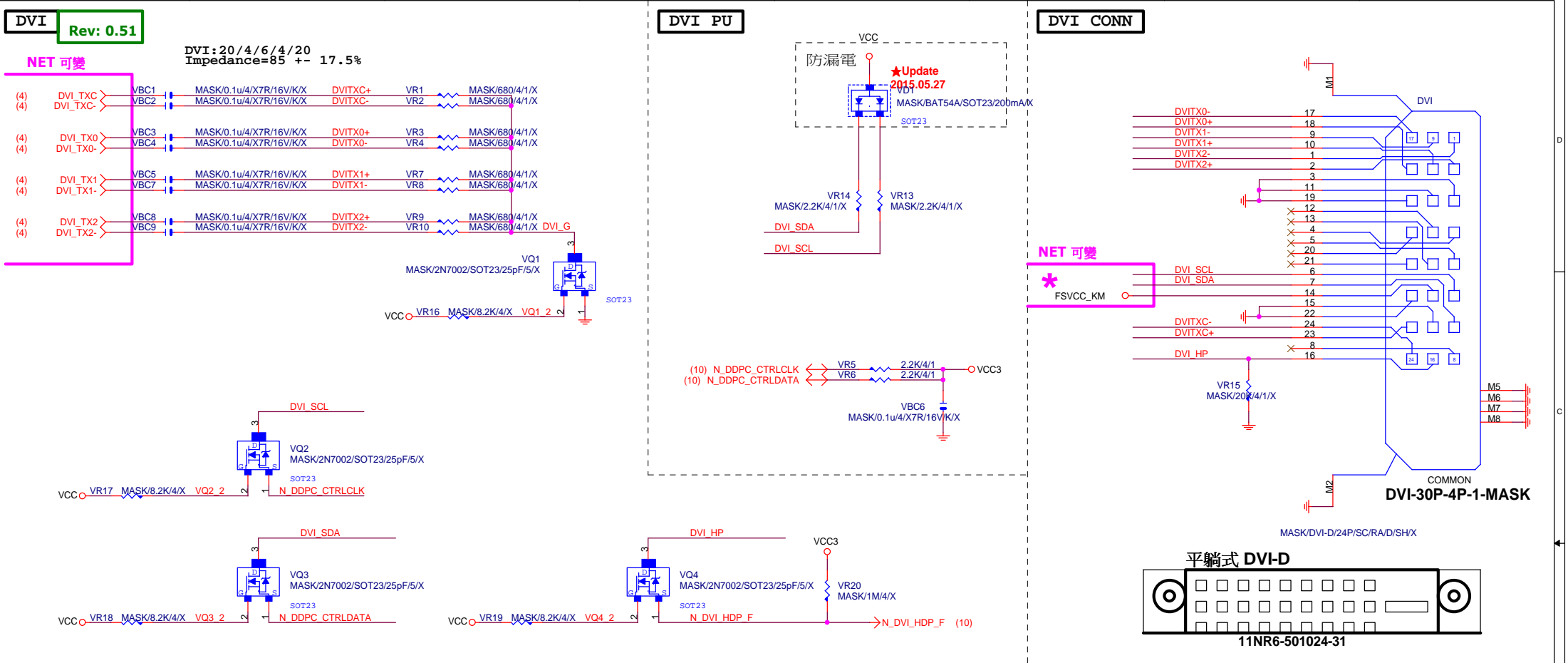
Document Number

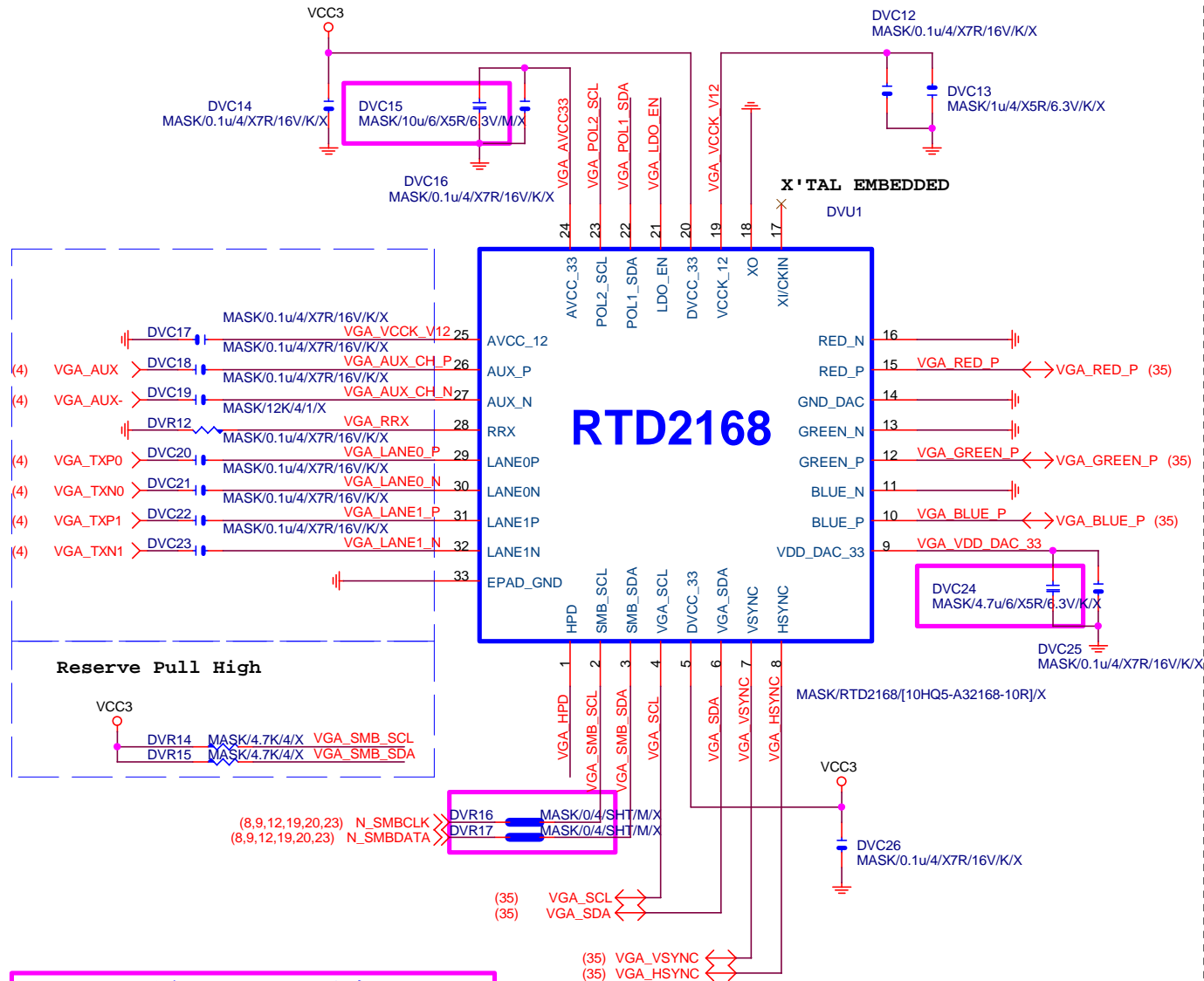
GA-X150M-PLUS WS

Rev  
1.0

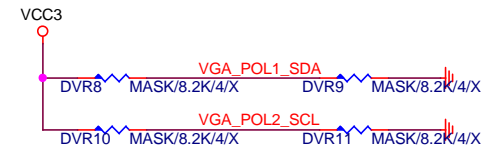
Date: Wednesday, December 09, 2015

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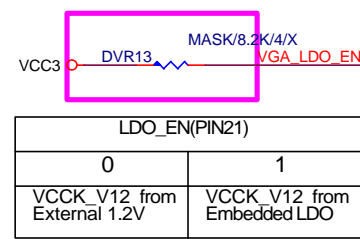


Power on latch



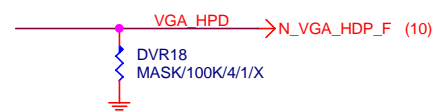
		POL1_SDA(PIN22)	
		0	1
POL2_SCL (PIN23)	0	X	EP MODE
	1	ROM ONLY MODE	EEPROM MODE

Embedded LDO

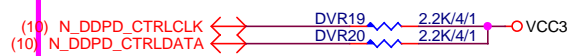


LDO_EN(PIN21)	
0	1
VCC3	VCC3
VCC3	VCC3

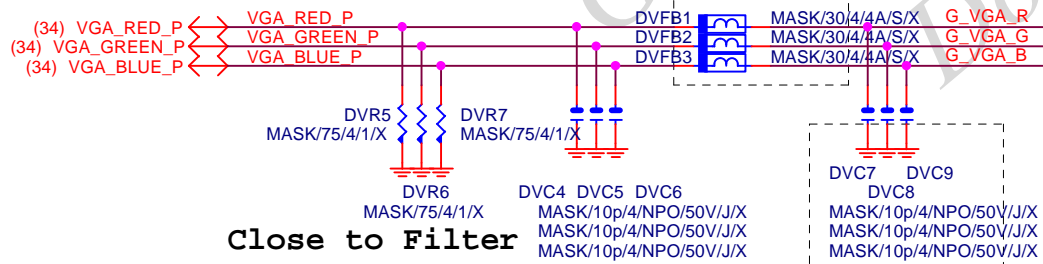
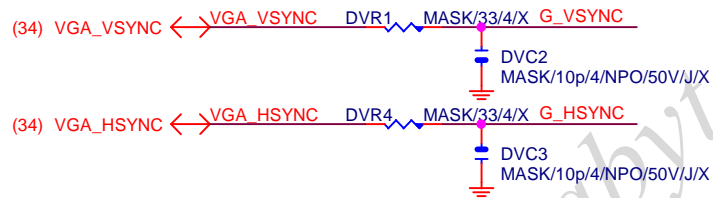
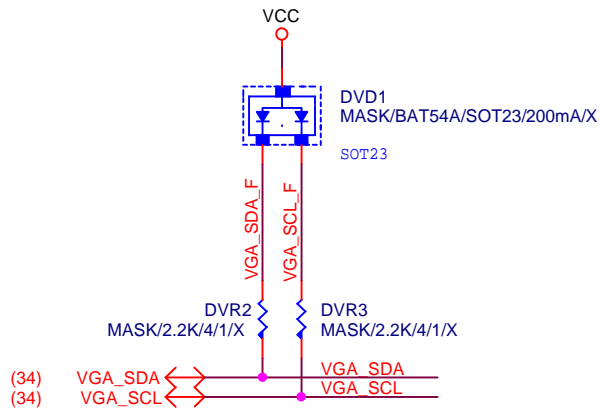
DP HPD



放置PCH端

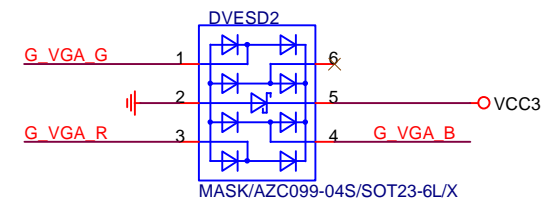
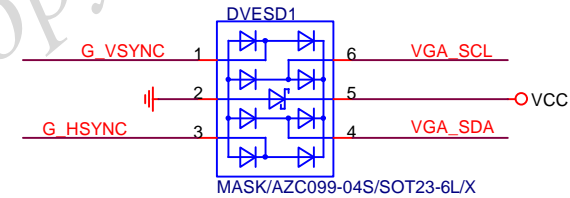
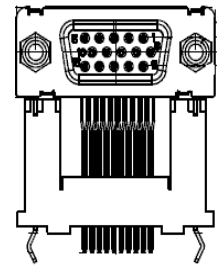
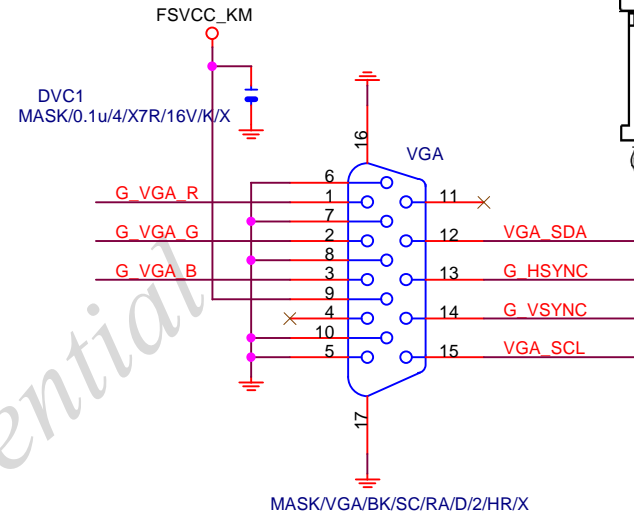


Gigabyte Technology  
DP-VGA RTD2168



Close to Filter

FOR EMI



Gigabyte Technology

NXP-PTN3356

Title

Size

Custom

Document Number

GA-B150M-D2VX-SI

Rev

1.0

Date:

Wednesday, December 09, 2015

Sheet

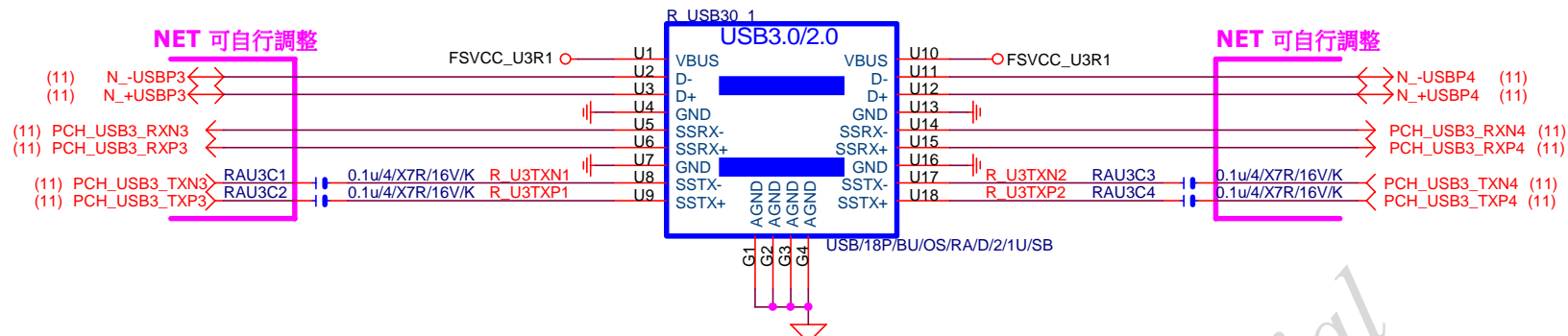
35

of

50

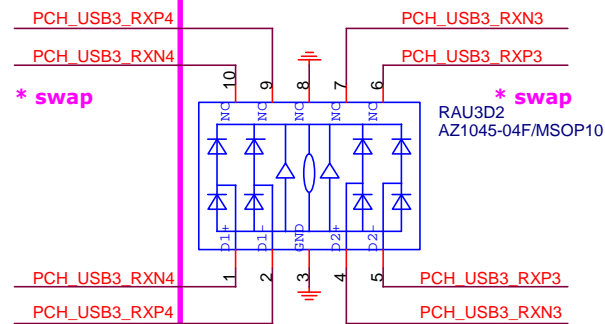
Rev: 0.53

ESD 可自行SWAP PIN ,CONN端 NET 名稱 不可

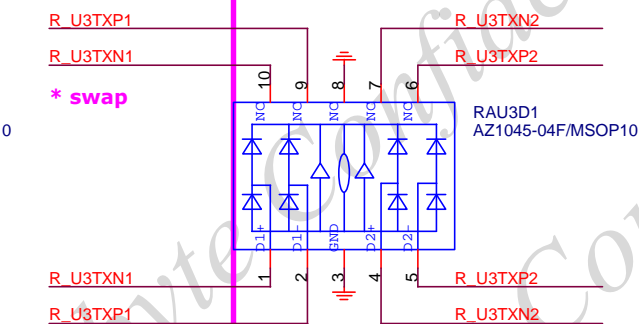


ESD

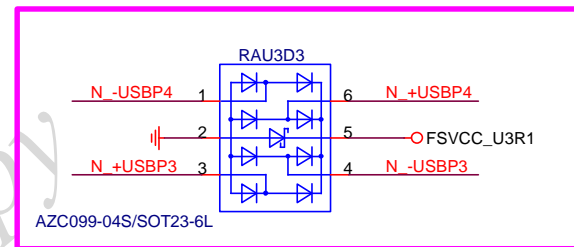
**NET 可自行調整**



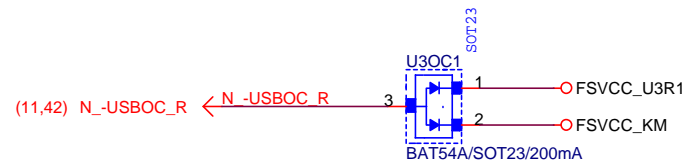
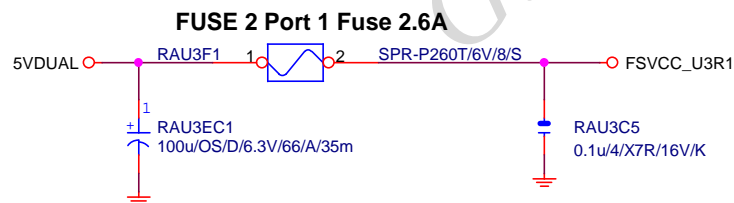
**NET 可自行調整**



**NET 可自行調整**



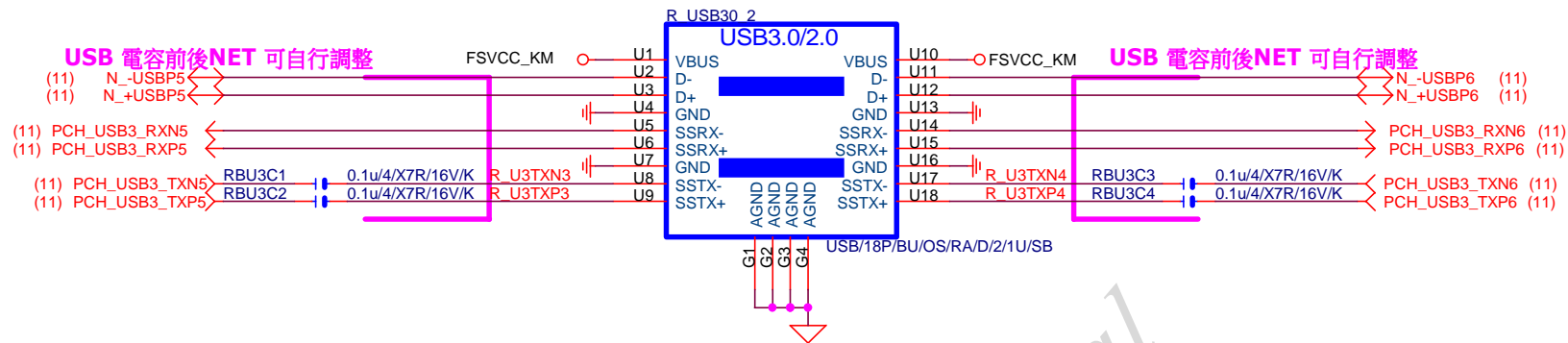
FUSE



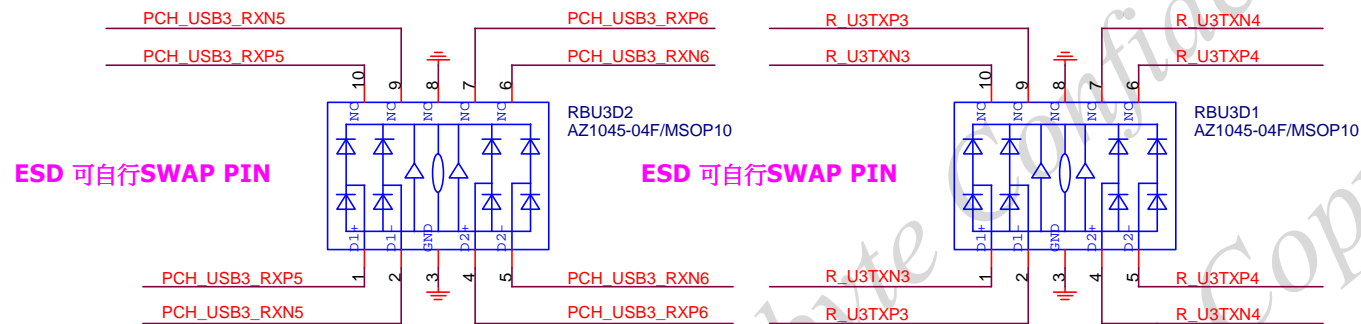
Gigabyte Technology

Title		R_USB30,USB_OC	
Size	Document Number	GA-X150M-PLUS WS	
Custom		1.0	
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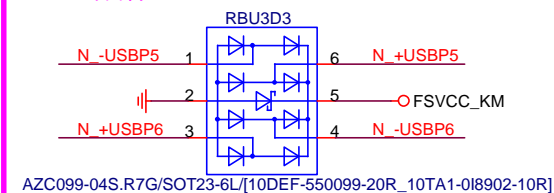




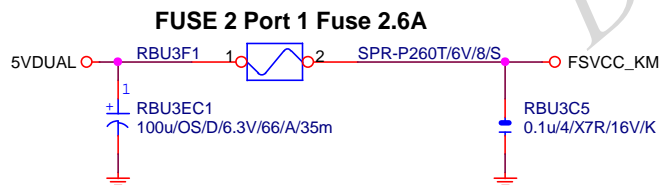
## ESD



## ESD 可自行SWAP PIN

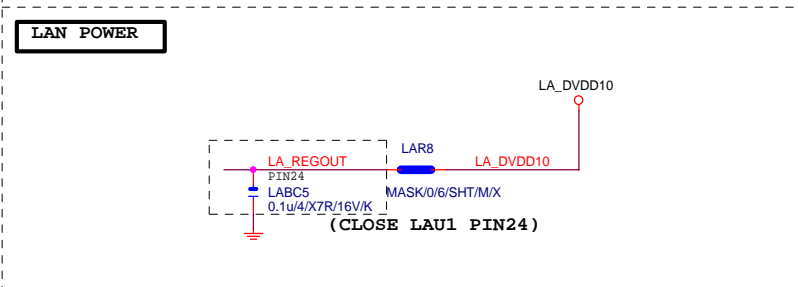
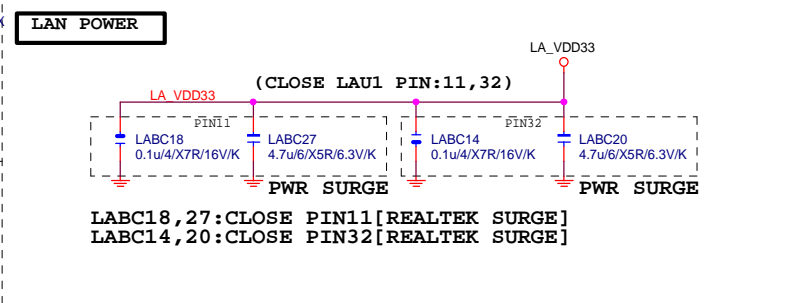
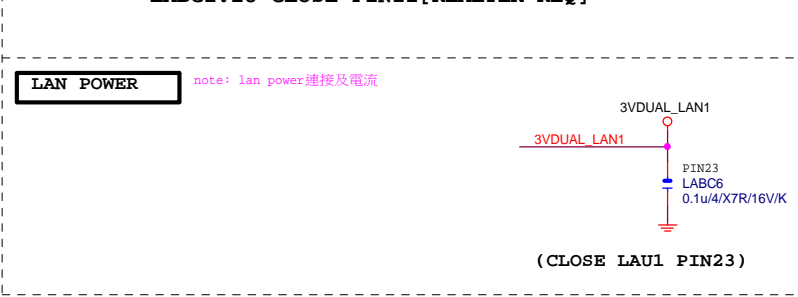
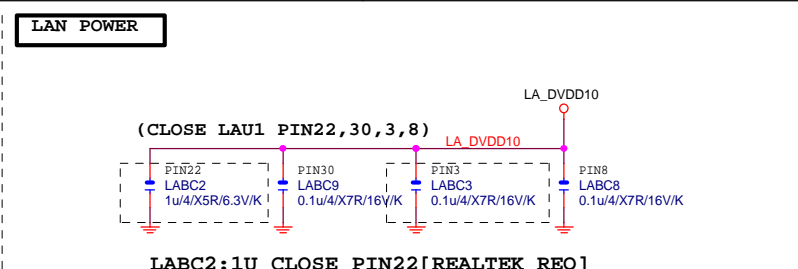
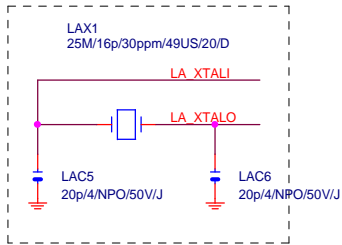
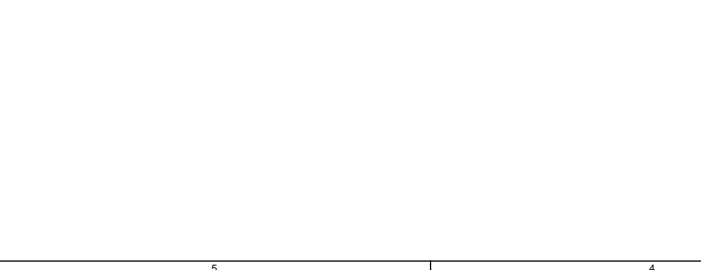
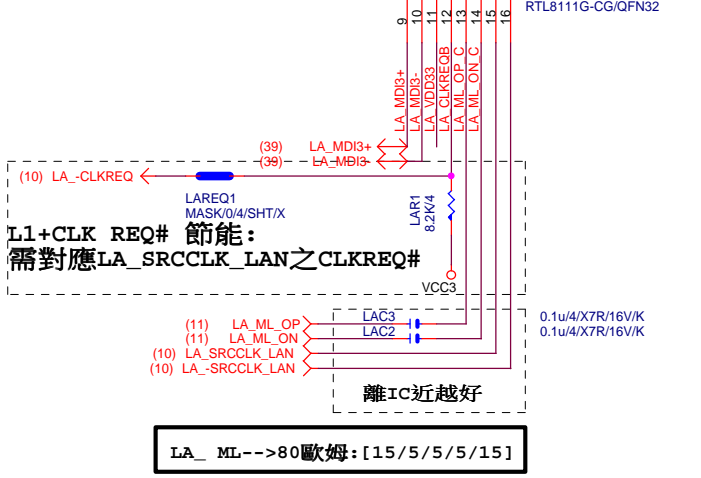
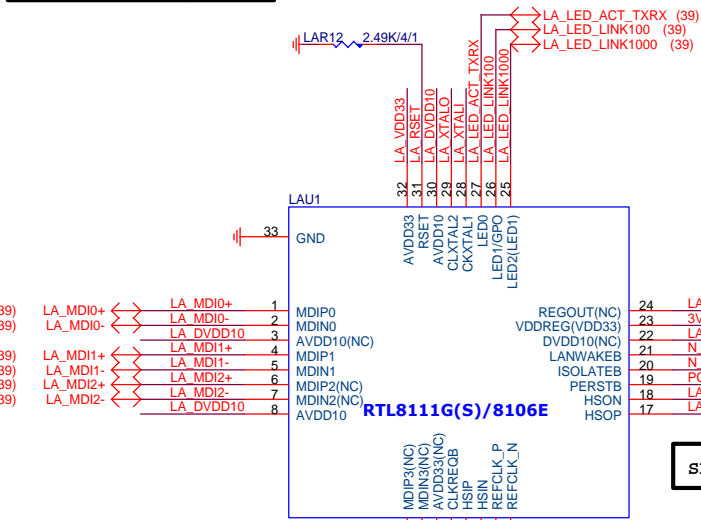


## FUSE



Gigabyte Technology

Title		R_USB30,USB_OC	
Size	Document Number	GA-X150M-PLUS WS	
Custom		1.0	
Date:	Wednesday, December 09, 2015	Sheet	37 of 50

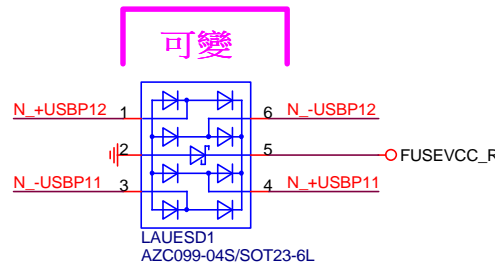


Gigabyte Technology			
Title			
Realtek RTL8111GUS			
Size	Document Number		Rev
Custom			1.0
Date:	Wednesday, December 09, 2015	Sheet	38 of 50

USB\_LAN CONNECTOR R1.06

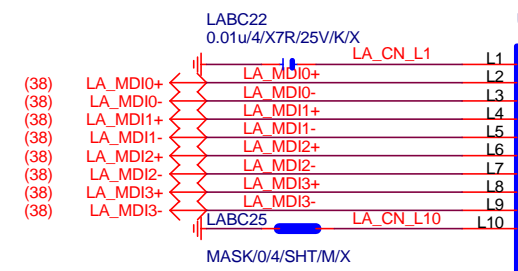
RMA ESD PROTECT

note:可變更USB NAME



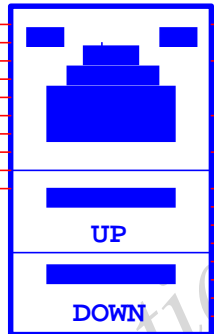
USB\_LAN CONNECTOR

note:可變更USB NAME



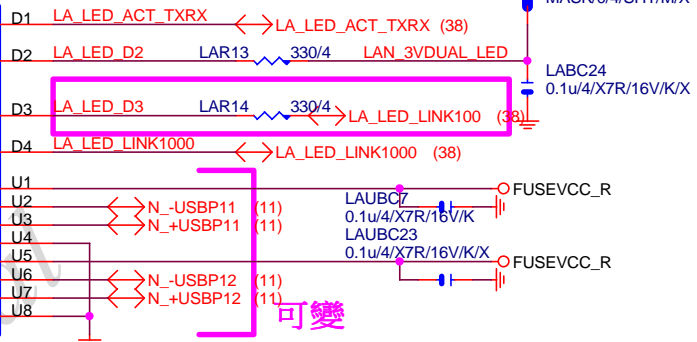
[RTL8111G]

USB\_LAN

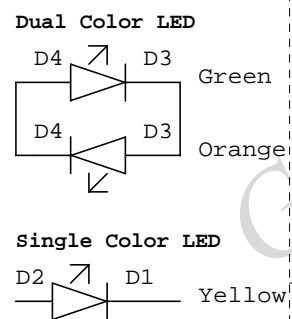
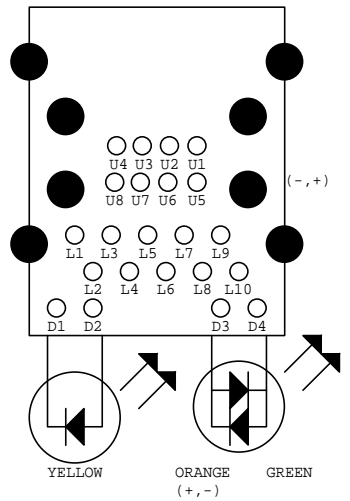


USB+LAN/1G/GO,Y/OS/RA/D/12C/ES[11NR6-702009-Z1R\_11NR6-702009-R2R]

LA\_MDI-->100歐姆:[20/4/8/4/20]

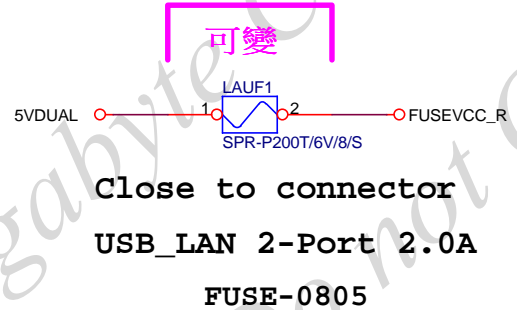


USB\_LAN LAYOUT示意圖



USB POWER

note:可變更FUSE



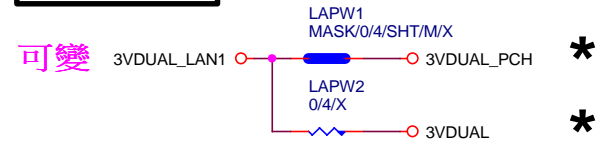
EMI SHORT PAD

PS:視EMI需求

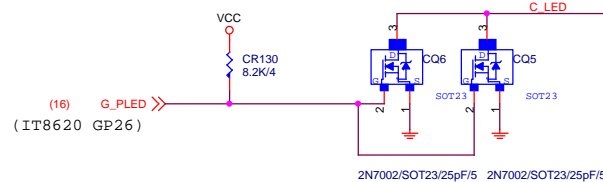
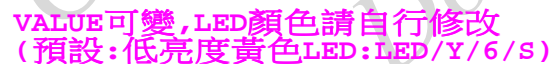
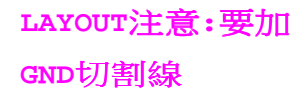
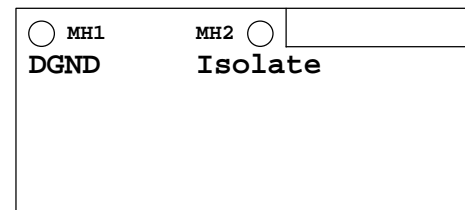
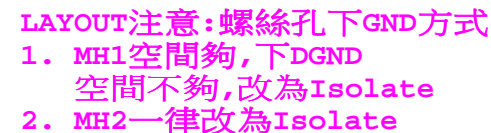


LAN POWER

note: lan power連接及電流

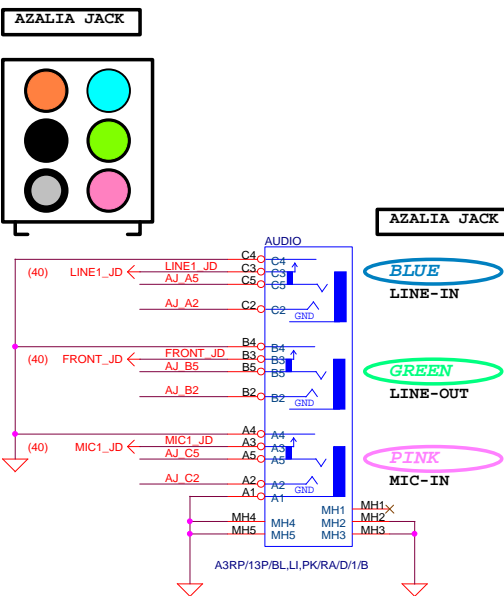
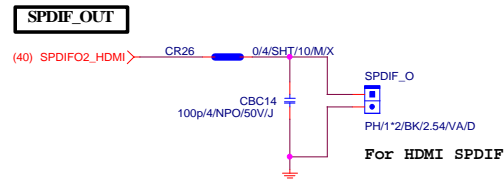
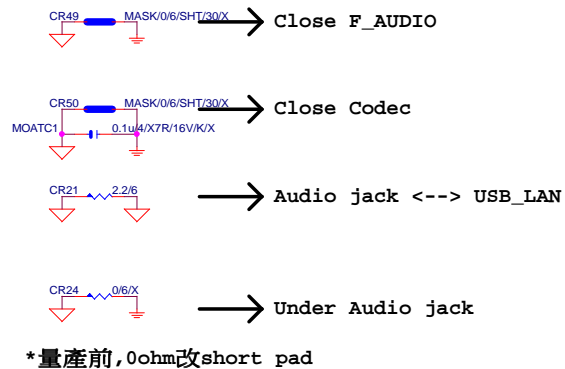


<b>Gigabyte Technology</b>			
Title <b>LAN CONNECTOR-RTL8111G</b>			
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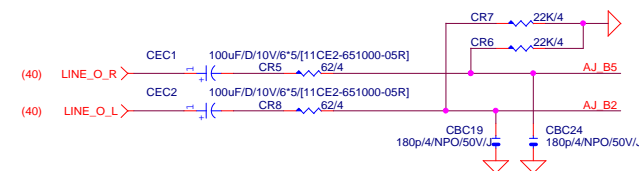


BOM OPTION : 1. Chemicon音效電容  
2. 金屬外罩 Reserve (上件與否,依照各Model spec)  
3. LED Reserve (上件與否和LED顏色,依照各Model spec)

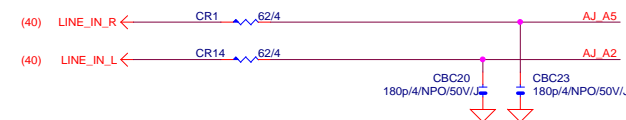
Rev 0.5



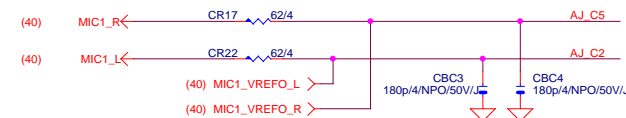
LINE-OUT



LINE-IN



MIC-IN

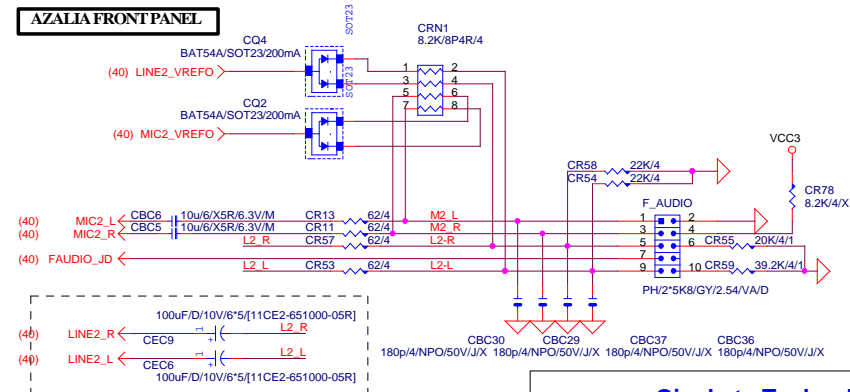


SURROUND

CEN/LFE

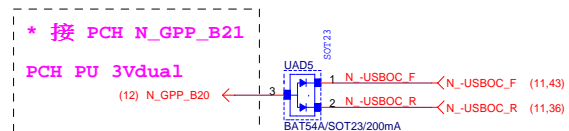
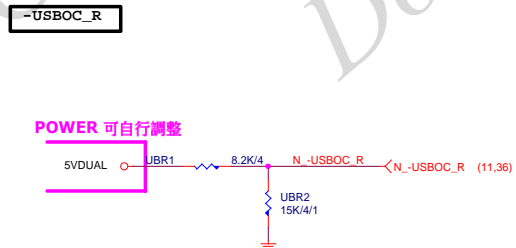
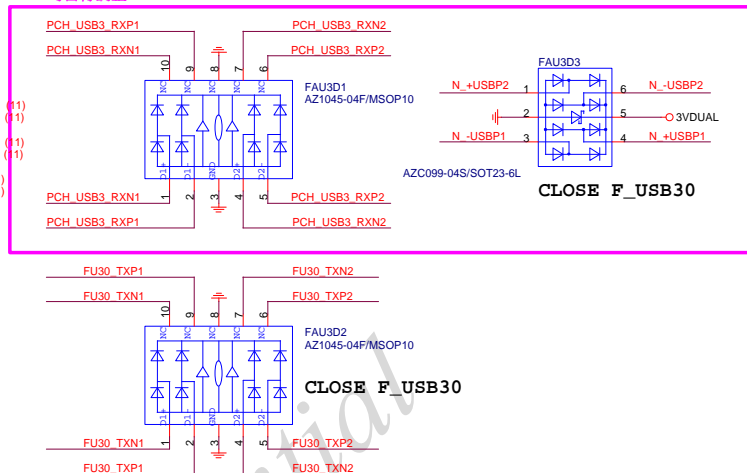
SURRBACK

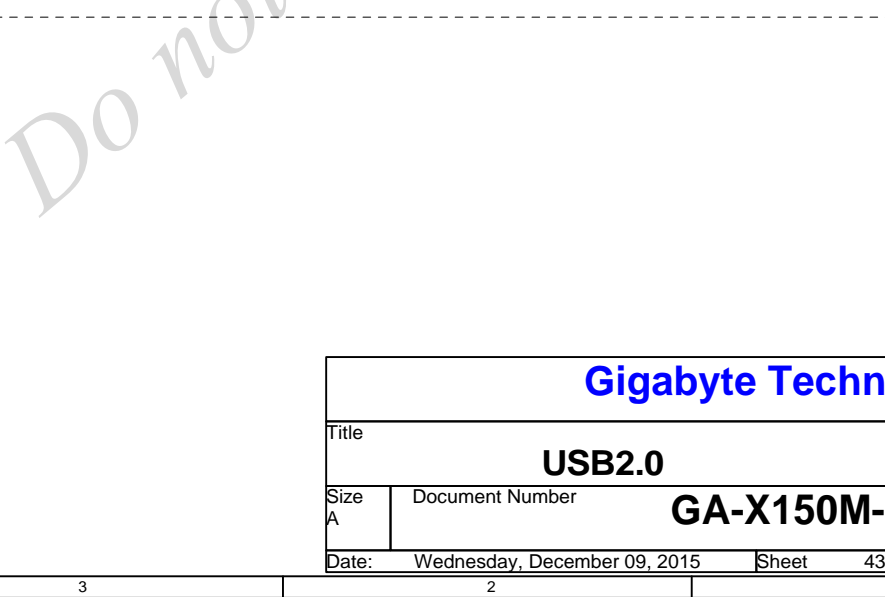
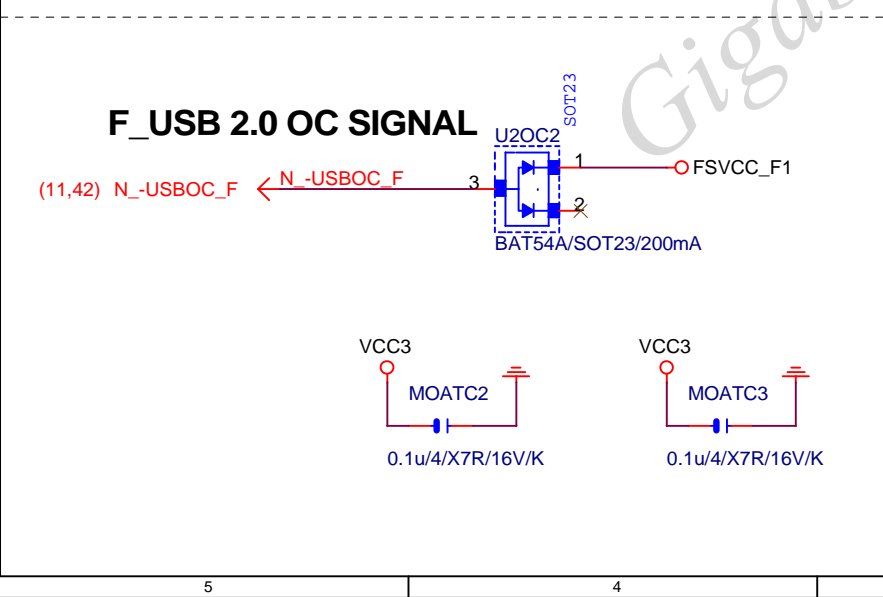
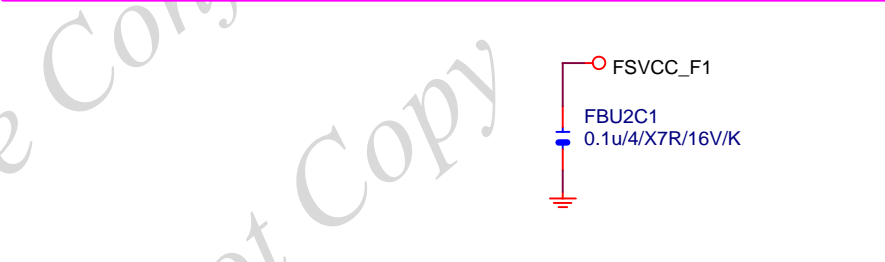
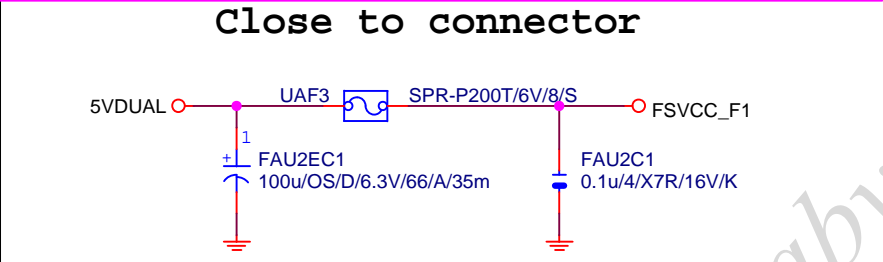
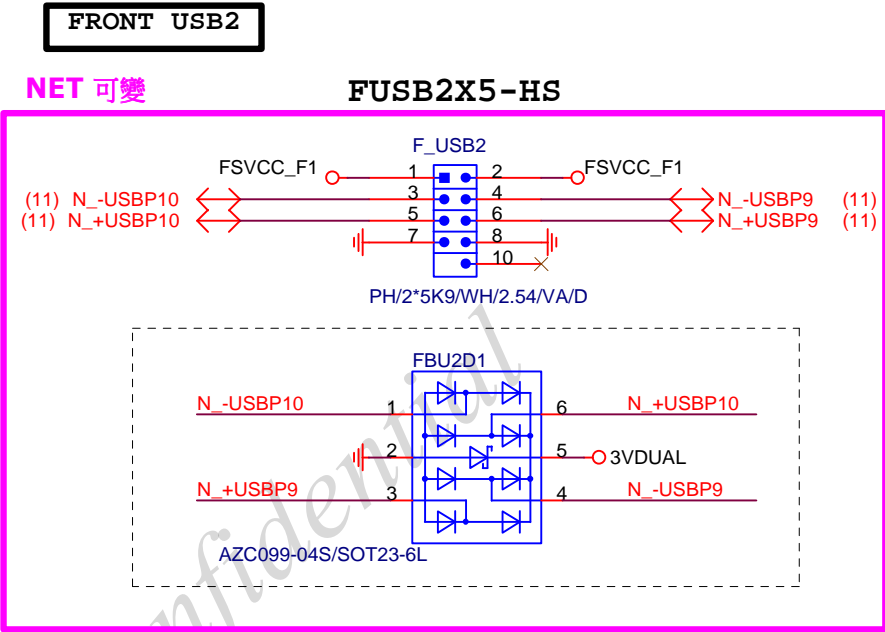
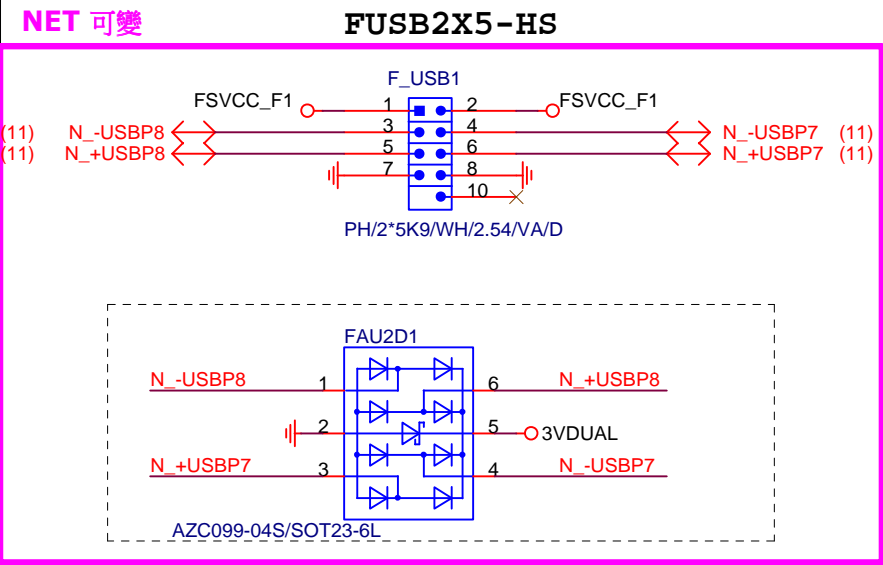
AZALIA FRONT PANEL



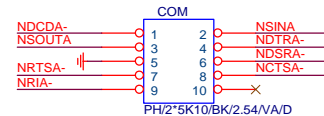
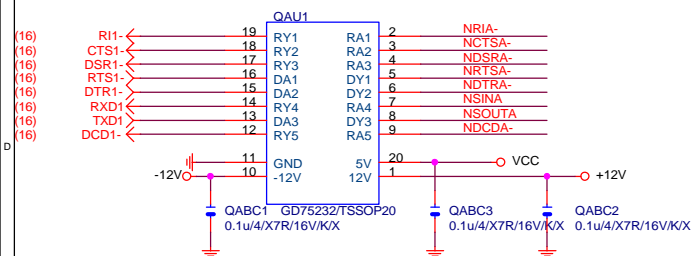
Gigabyte Technology

Title			
AUDIO JACK			
Size	Document Number	GA-X150M-PLUS WS	
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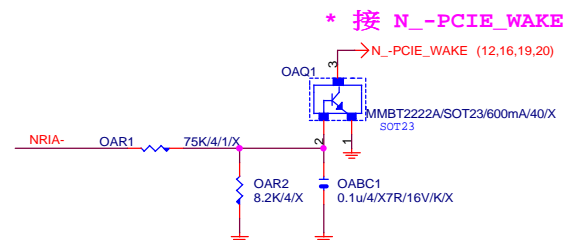
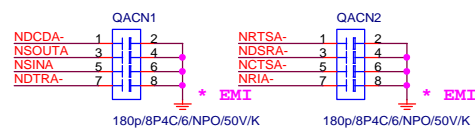




Rev: 0.51

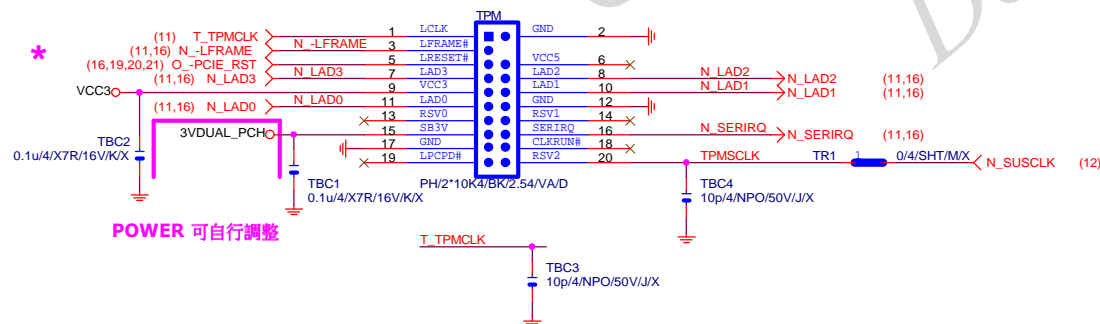


\* footprint :  
PIN2X5-CUT10-COM



LPT PORT

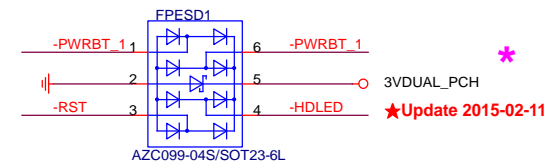
TPM CONNECT



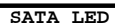
Thunderbolt (N/A)

## Gigabyte Technology

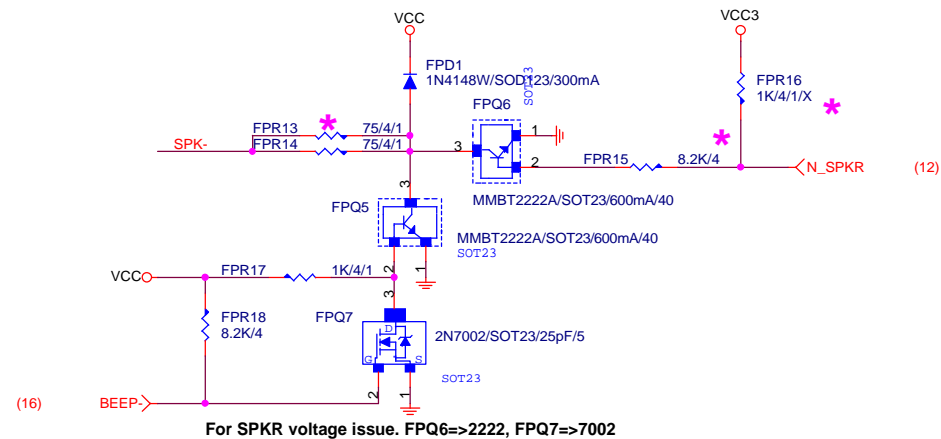
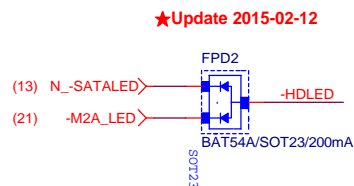


**Rev: 0.53**

## SPKF



```
SATALED# signal open-collector,pull-up (8.2 kΩ to 10 kΩ) to
Vcc3 3
```

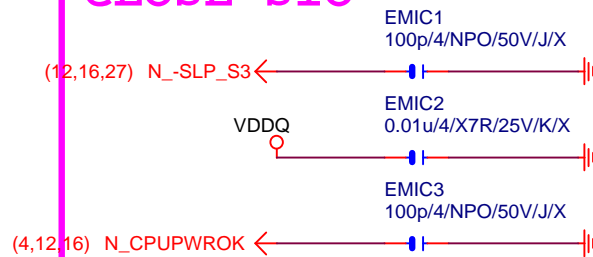


## Gigabyte Technology

Title			
FRONT PANEL			
Size Custom	Document Number	GA-X150M-PLUS WS	Rev 1.0
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OVER VOLTAGE							

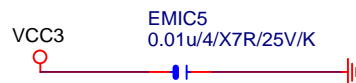
## CLOSE SIO



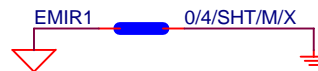
## CLOSE PCH



## close to PCH (NR17)



## R\_USB30\_2 &amp; DVI 之間



## close to FRONT PANEL

**GIGABYTE™**

Title

**EMI/ESD**Size  
A

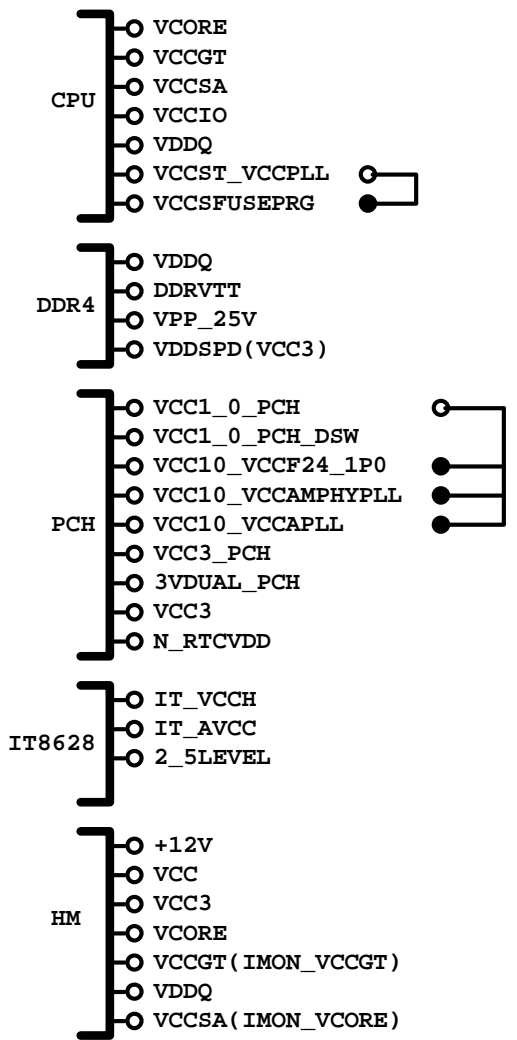
Document Number

**GA-X150M-PLUS WS**Rev  
**1.0**

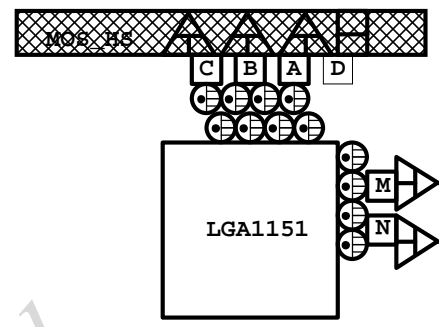
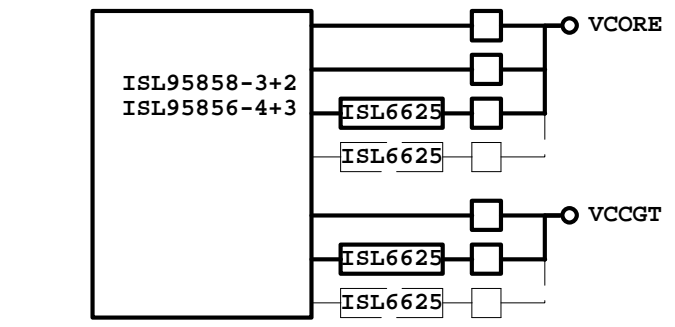
Date: Wednesday, December 09, 2015

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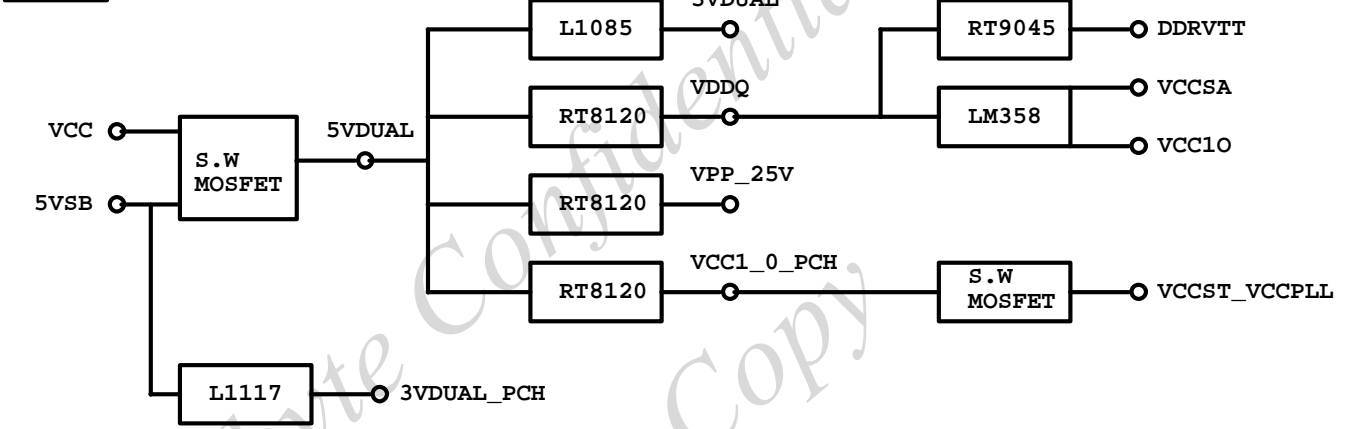
POWER BLOCK MAP



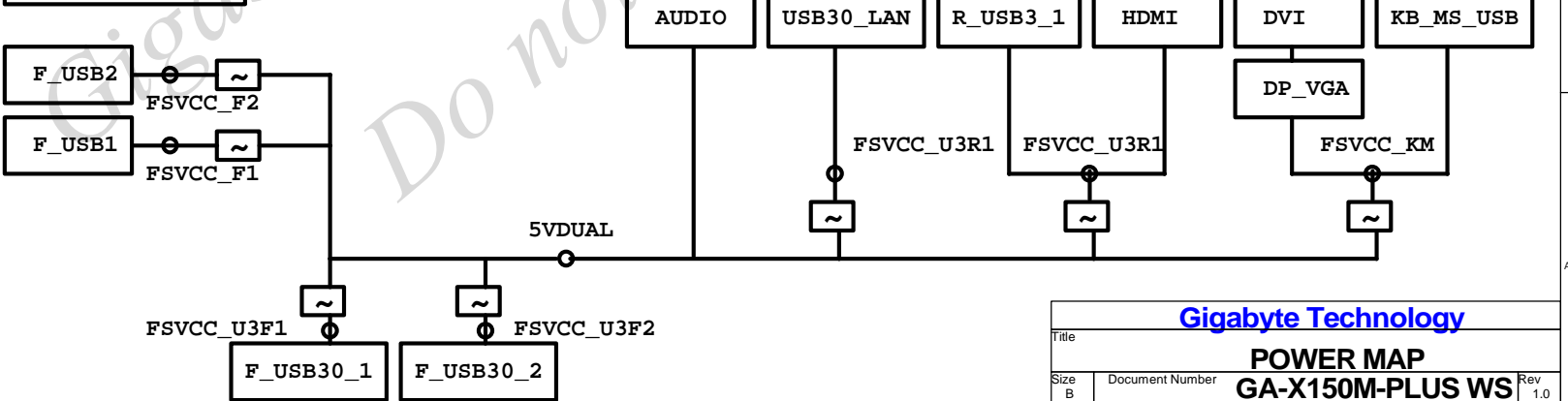
VCORE/VCCGT



POWER



FUSE POWER F/R



Gigabyte Technology			
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POWER MAP			
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固態電容料號.請自行修改

日系黑色固態	Capture Value
11C02-C85600-01R	560u/FP/D/6.3V/68/C/8m
11C05-C82700-01R	270u/FP/D/16V/88/C/12m
11C05-C61000-01R	100u/OS/D/16V/66/C/30m
11C02-C51000-01R	100u/FP/D/6.3V/65/C/13m

日系一般固態	Capture Value
11C02-685600-01R	560u/FP/D/6.3V/68/8m
11C05-882700-01R	270u/FP/D/16V/88/12m
11C05-661000-03R	100u/OS/D/16V/66/30m
11C02-651000-02R	100u/OS/D/6.3V/66/30m

台系固態	Capture Value
11C02-661000-09R	100u/OS/D/6.3V/66/A/35m
11C05-691000-09R	100u/OS/D/16V/69/A/35m
11C05-8C2700-09R	270u/FP/D/16V/8C/A/10m
11C02-695600-09R	560u/FP/D/6.3V/69/A/11m

IRON CHOKE

	料號	Capture Value	SIZE	Footprint
DIP	11LC5-M4500C-01R	0.5uH/40A/IMD109/M/D	10*10	CHOKE05U-40A-1PQ-3
DIP	11LC5-M2500C-01R	0.5uH/20A/IMD0809/M/D	8*8	CHOKE1U-R50M-IF

Ferrite

	料號	Capture Value	SIZE	Footprint
DIP	11LC5-F3500C-11R	0.5uH/32A/INCG109/FSI/D	10*10	CHOKE05U-40A-1PQ-3
DIP	11LC5-F2500C-11R	0.5uH/25A/INC0809/F/D	8*8	CHOKE1U-R50M-IF
SMD	未建(SIUC1007-R30M-JJ1W)		10*7	CHOKE11X8MM-SMD

BEAD

	料號	Capture Value	SIZE	Footprint
DIP	10LFB-15470A-01R	47/4030/15A/S	4*3	BEADC8B-BPH_SMD

PWM料號

		料號	Capture Value	Footprint
PWM	ISL95856	10TA1-695856-01R		IC52QFN-6x6-G
PWM	ISL95858	10TA1-695858-01R		IC52QFN-6x6-G
PWM	IR35201	10TA1-635201-00R		IC56QFN-9VRS4339
PWM	IR3570	10TA1-603570-00R		IC40MLFP-ISL95835

GIGABYTE™

Title

RT8120\_DDR4 POWER

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Date:

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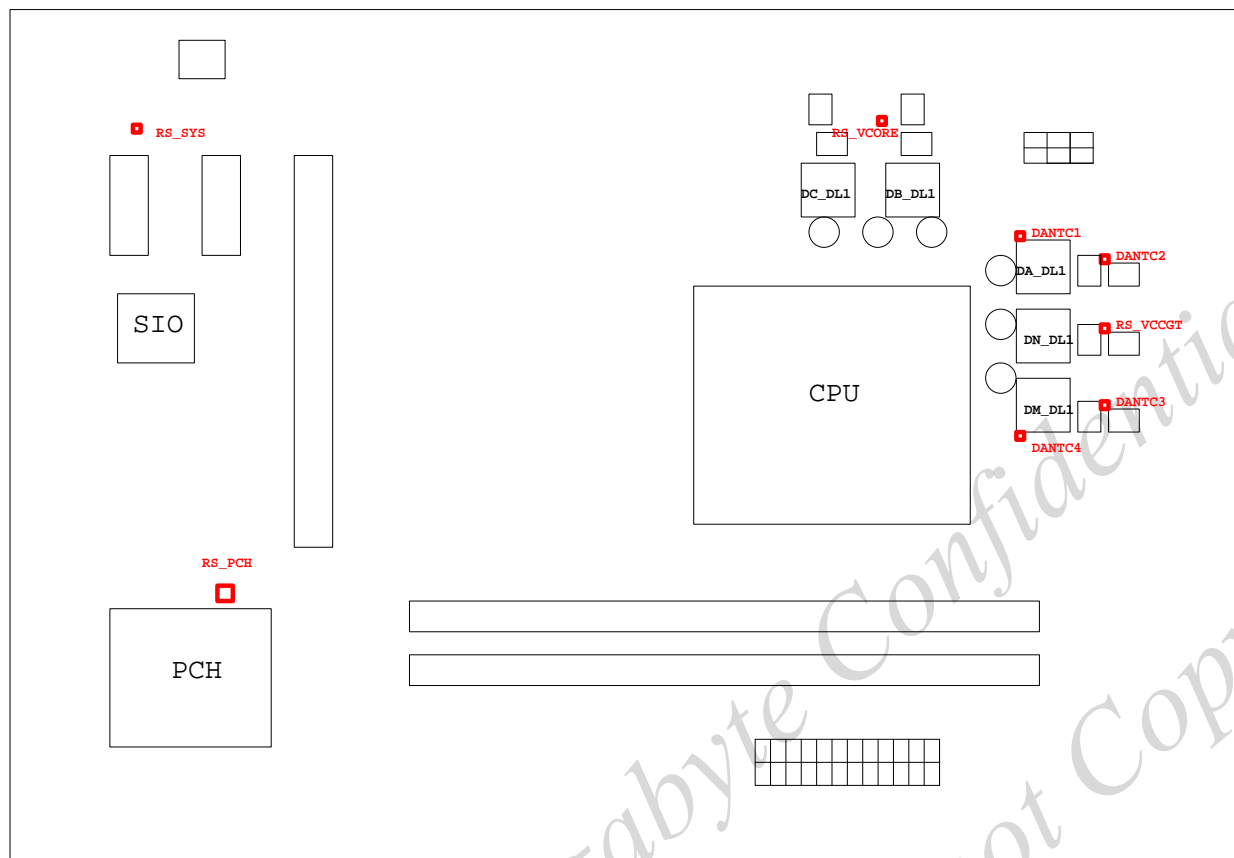
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Rev

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熱敏電阻	擺放靠近位置	走線方式
DANTC4	DM_DL1	Differential
DANTC1	DA_DL1	Differential
DANTC3	DM_DQ1	Differential
DANTC2	DA_DQ1	Differential
RS_VCORE	DC_DQ1	N/A
RS_VCCGT	DM_DQ1	N/A
RS_PCH	PCH	N/A
RS_SYS	CU1	N/A