

## Model Name: GA-B150M-Gaming

SHEET

TITLE

rev 1.0

SHEET

TITLE

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05	CPU_LGA1151-B-DDR3
06	CPU_LGA1151-C
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12	PCH_MISC
13	PCH SATA,PCIE,SATA_EXPRESS
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Gigabyte Technology

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Cover Sheet			
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**Rev1.0**

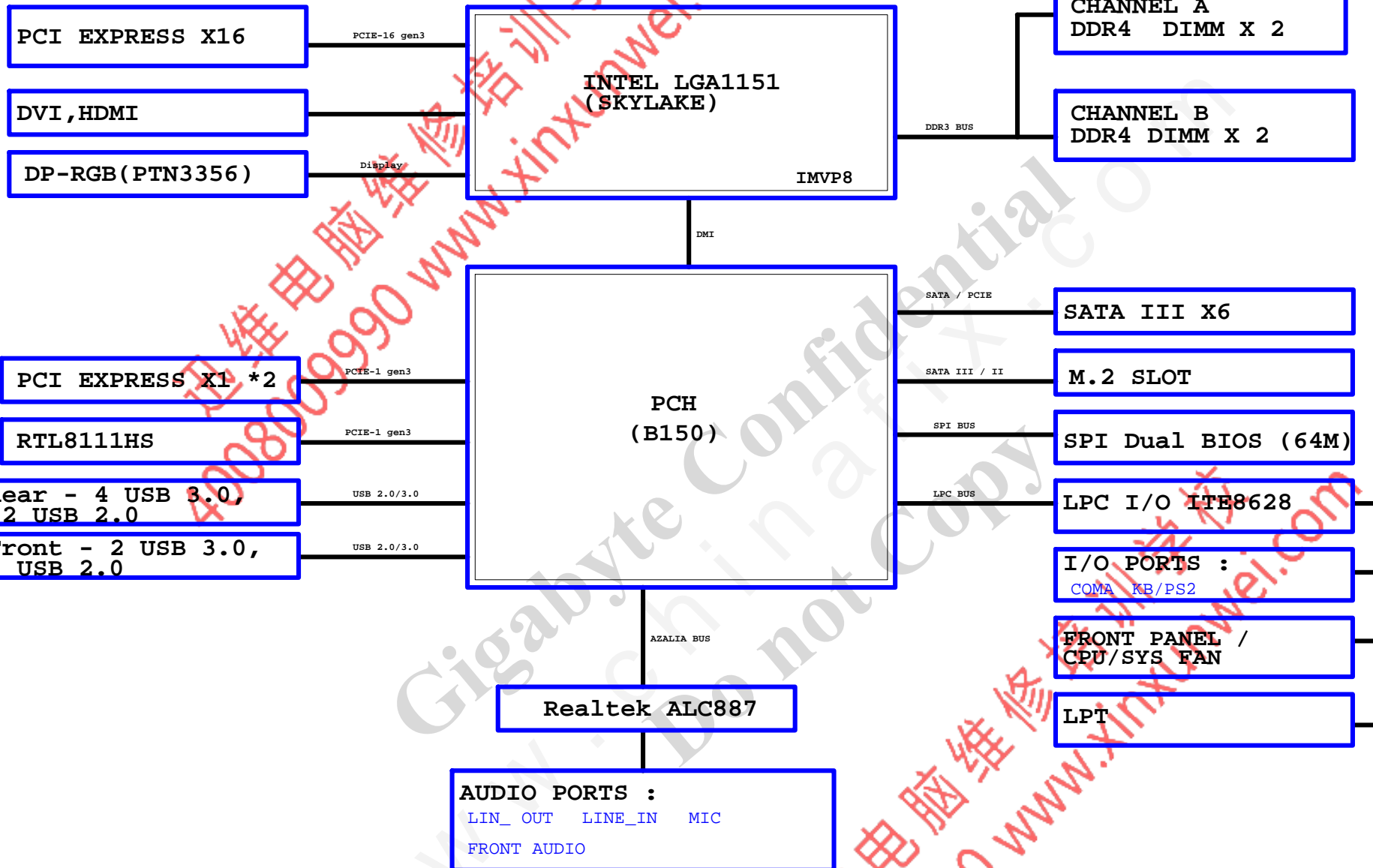
CHINA FDX

## 2016/06/22

[illegible]

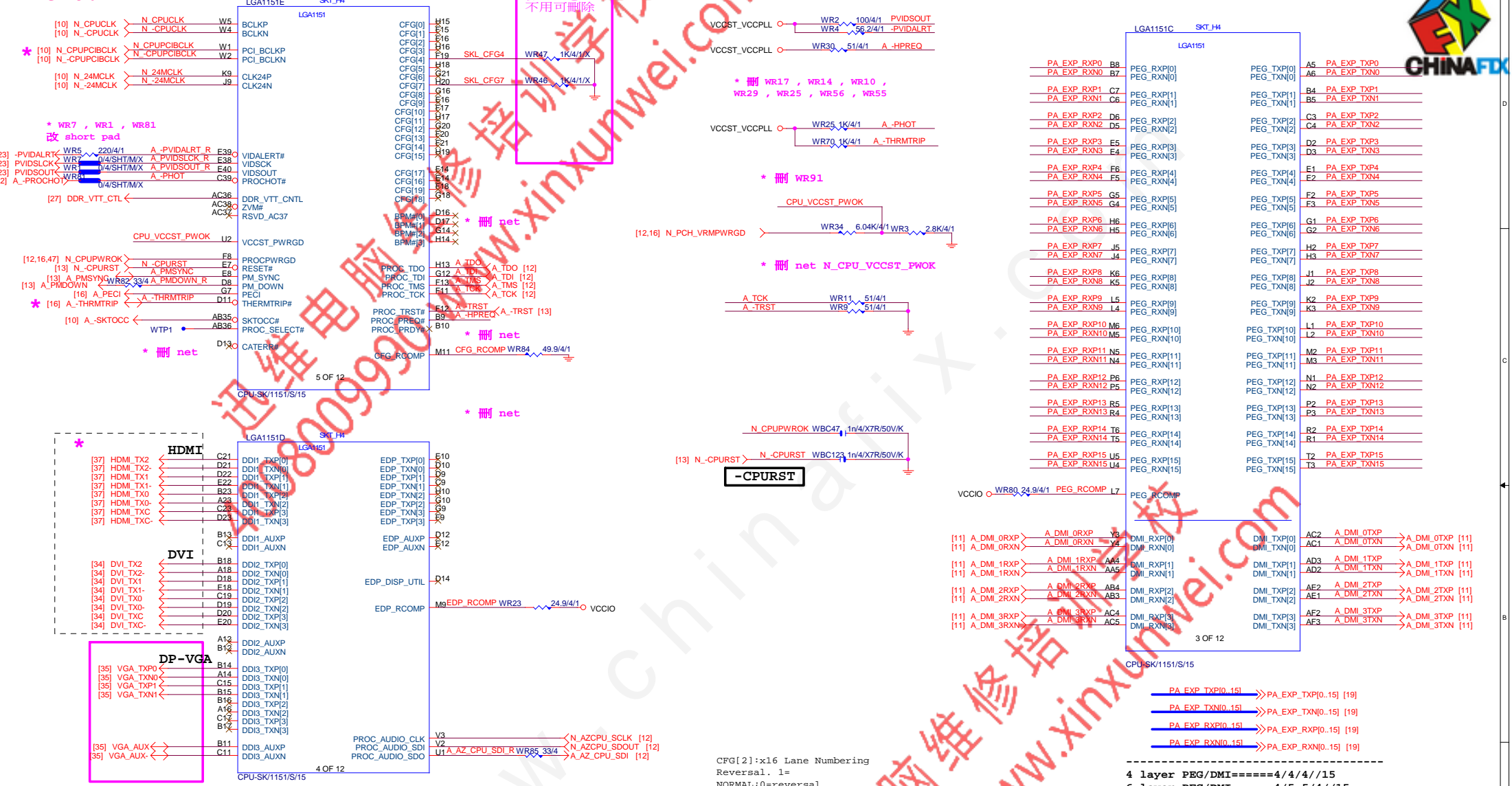
# BLOCK DIAGRAM

www.xinxunwei.com 400-800-9990



Rev0.2B

www.xinxunwei.com 400-800-9990



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%

CFG[2]:x16 Lane Numbering Reversal. 1= NORMAL;0=reversal  
CFG[4]: eDP enable:1:disable/0=enable  
CFG[6:5]:PCI Express\* Bifurcation; 1l= 1 x16 PCI Express;10=2x8 PCI Express  
CFG[7]: PEG Training;1=(default) PEG Train immediately following RESET#;0=PEG Wait for BIOS

Bifurcation Config.	Signals	Lanes
CFG[8]	CFG[5]	CFG[2]
1x16	1	1
1x16 Reversed	1	0
2x8	1	0
2x8 Reversed	1	0
1x8+2x4	0	1
1x8+2x4 Reversed	0	0

PA EXP TXP0.15] >>>PA\_EXP\_TXP0.15] [19]  
PA EXP TXN0.15] >>>PA\_EXP\_TXN0.15] [19]  
PA EXP RXP0.15] >>>PA\_EXP\_RXP0.15] [19]  
PA EXP RXN0.15] >>>PA\_EXP\_RXN0.15] [19]

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

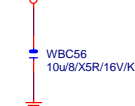
Impedance=85 +- 15%  
W=12 mil out of CPU  
S=15 mil out of CPU

Gigabyte Technology		
CPU LGA1151-A		
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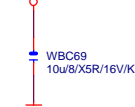
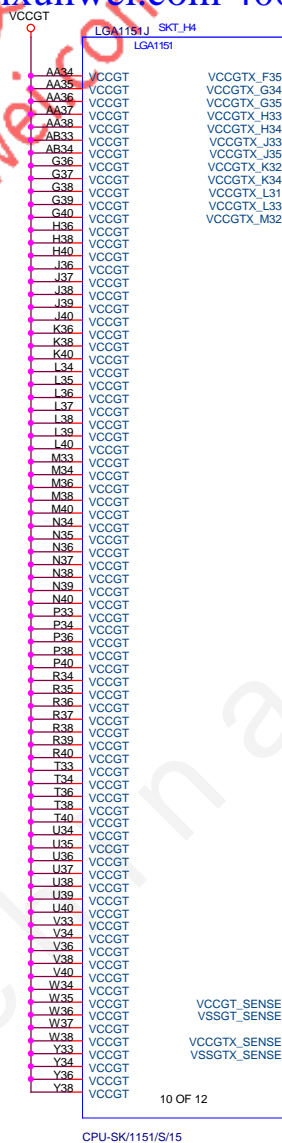
X1

VCCSA



X1

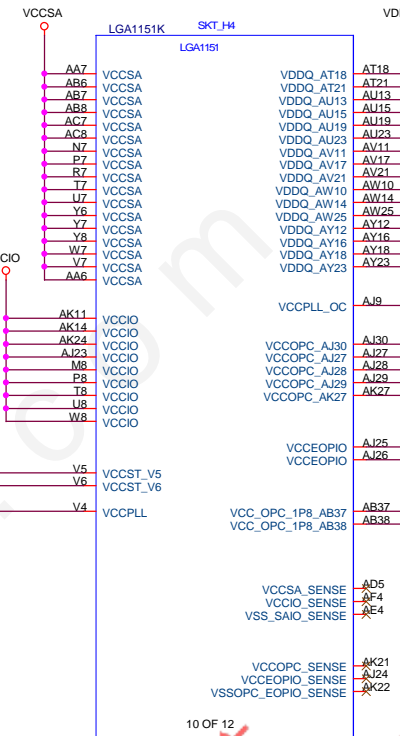
VCCIO

VCCST\_VCCPLL  
VCCSFUSEPRGVCCSA  
WR84 0/4/X VCCST\_VCCPLL

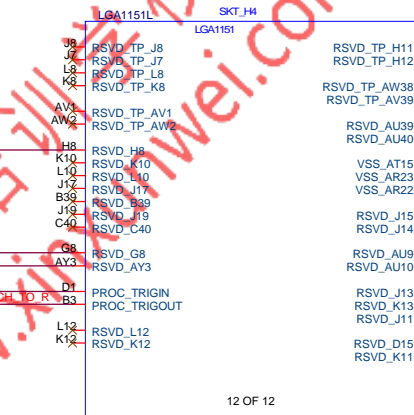
CPU-SK/1151/S/15

F39 VCCGT\_SENSE [23]  
F38 VSSGT\_SENSE [23]F37 VCCGT\_SENSE [23]  
F36 VSSGT\_SENSE [23]

[13] N\_PCH\_CPU\_PCH\_TO\_2 WR88 334 A\_CPU\_PCH\_TO\_R



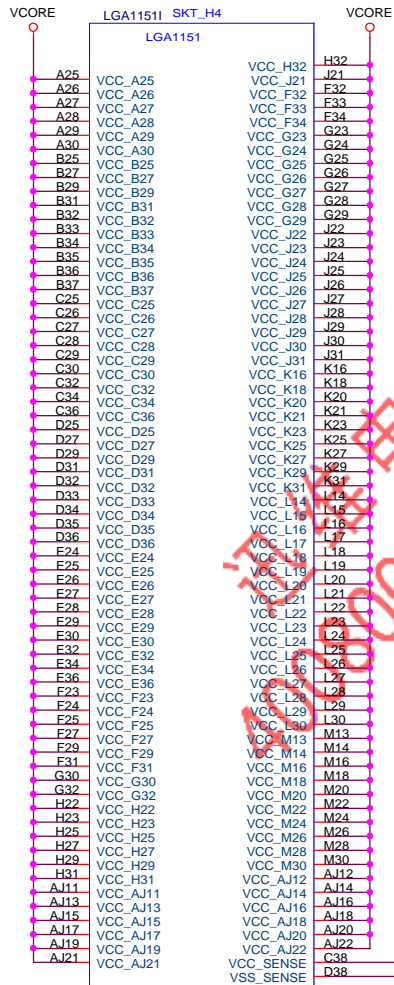
CPU-SK/1151/S/15



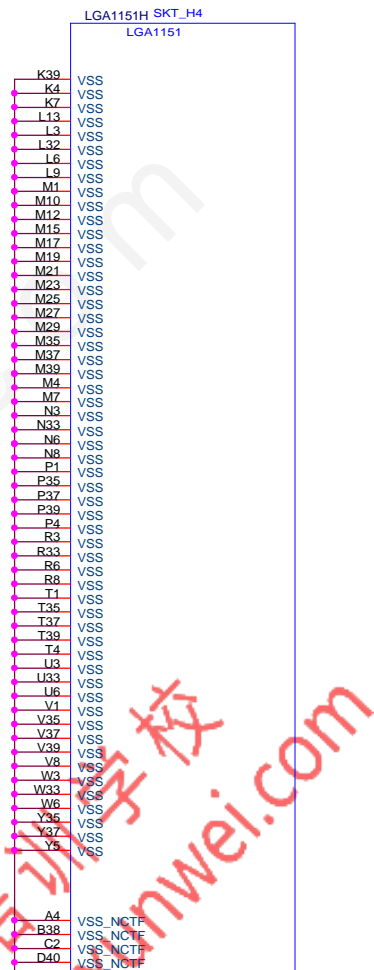
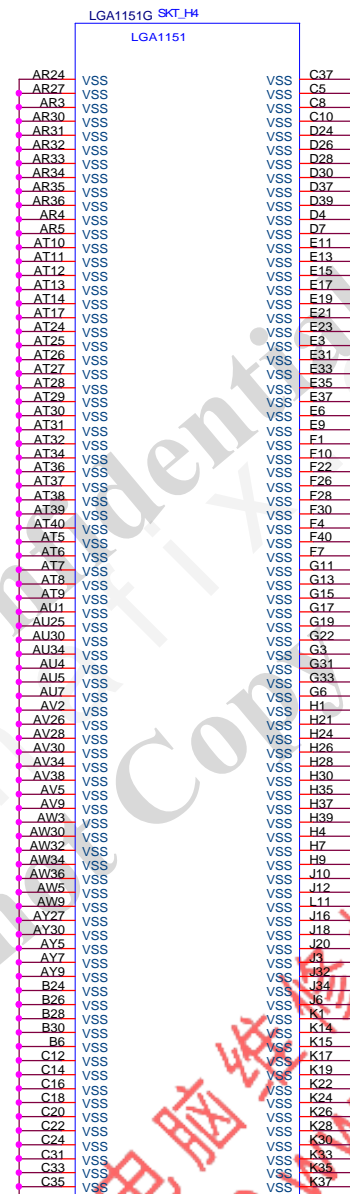
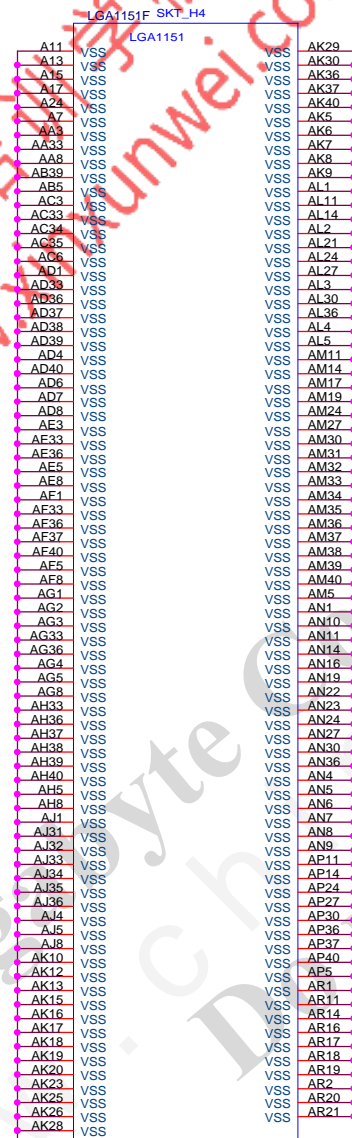
CPU-SK/1151/S/15

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CPU LGA1151-C		
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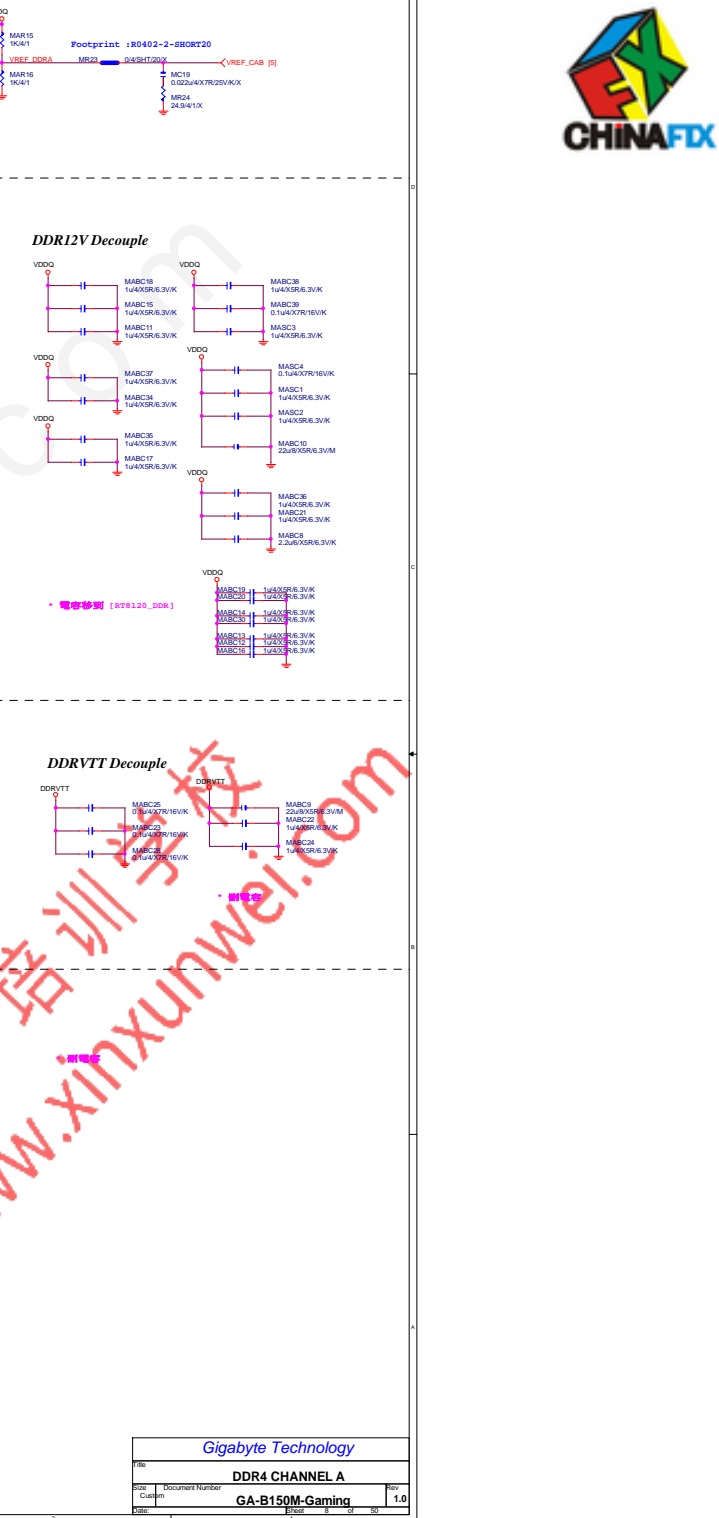
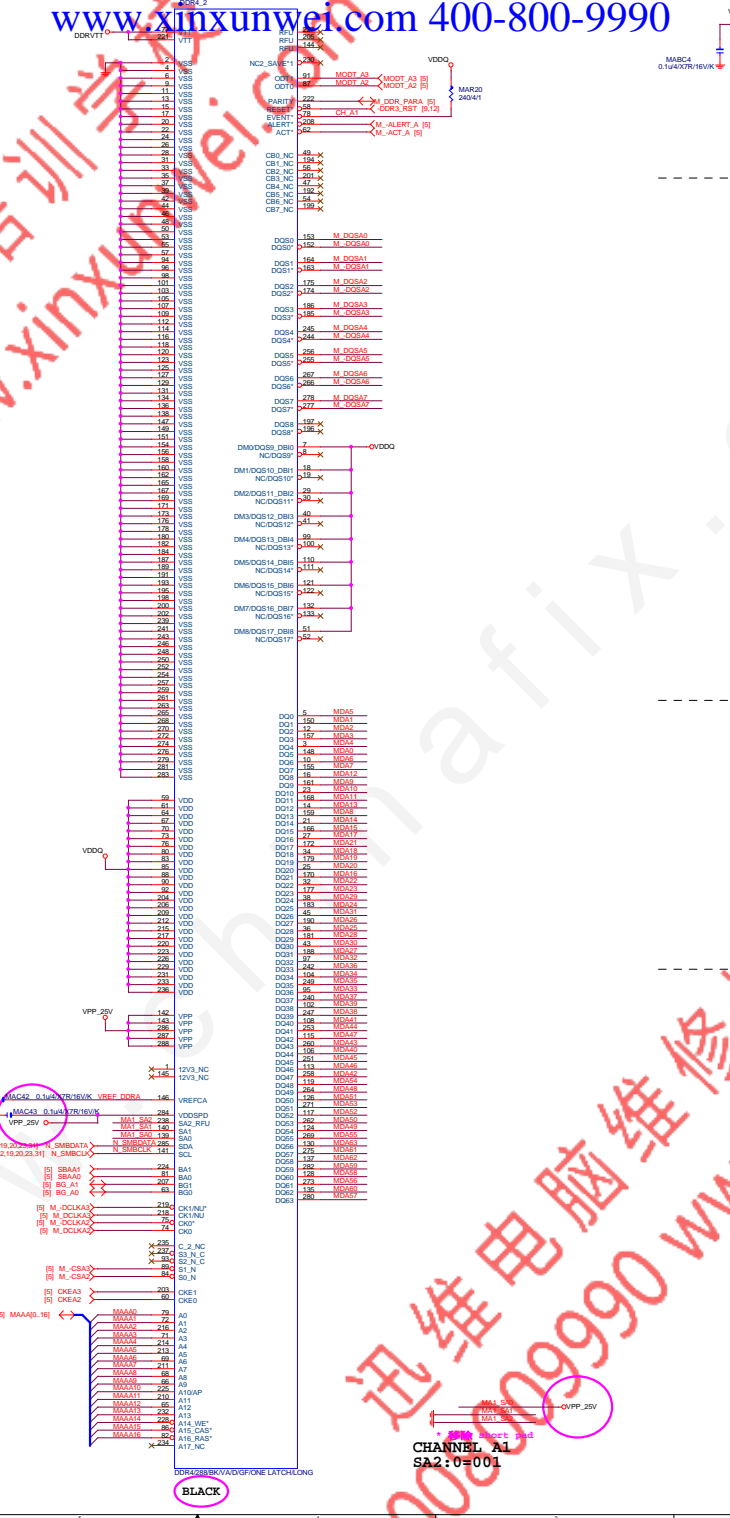
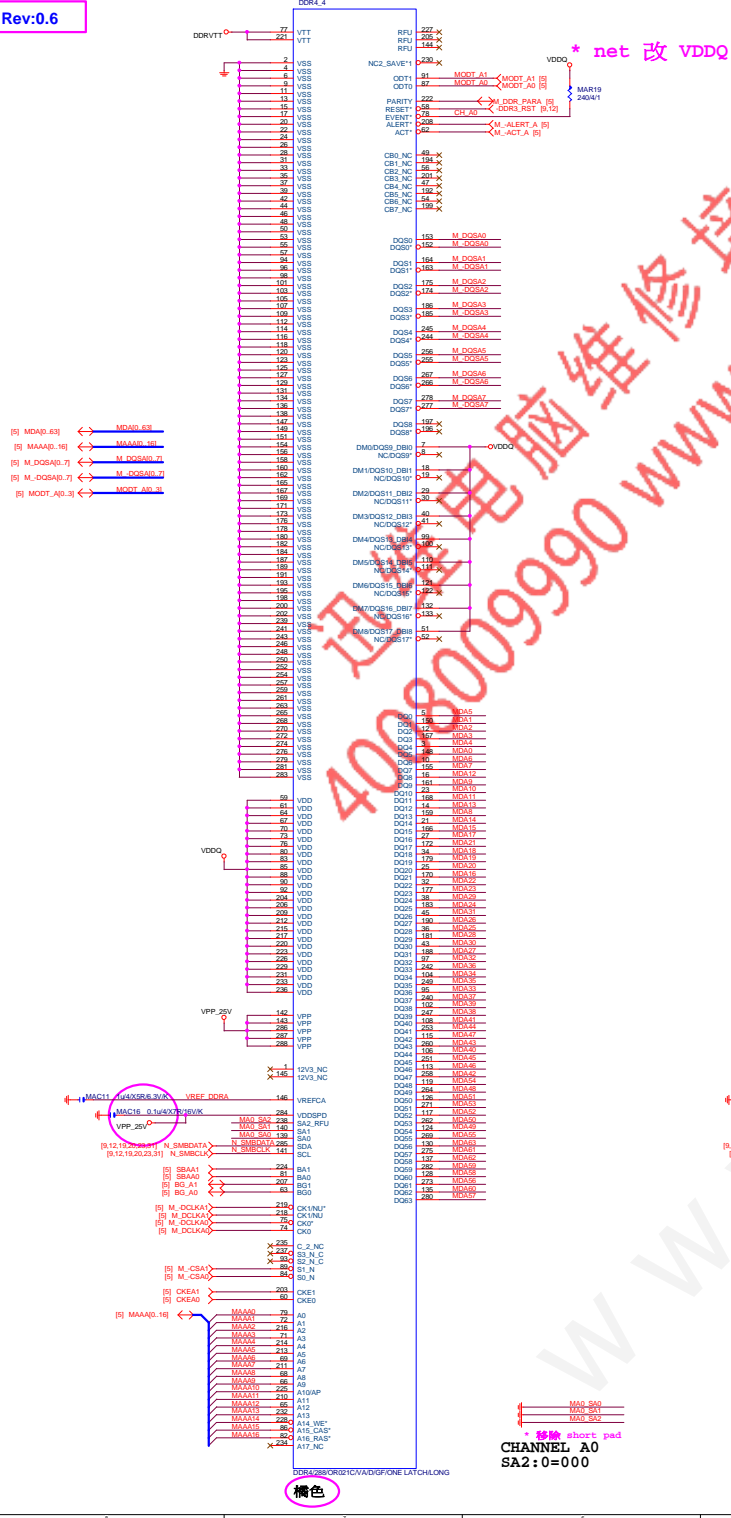


\* 刪 Vcore 電容

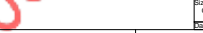
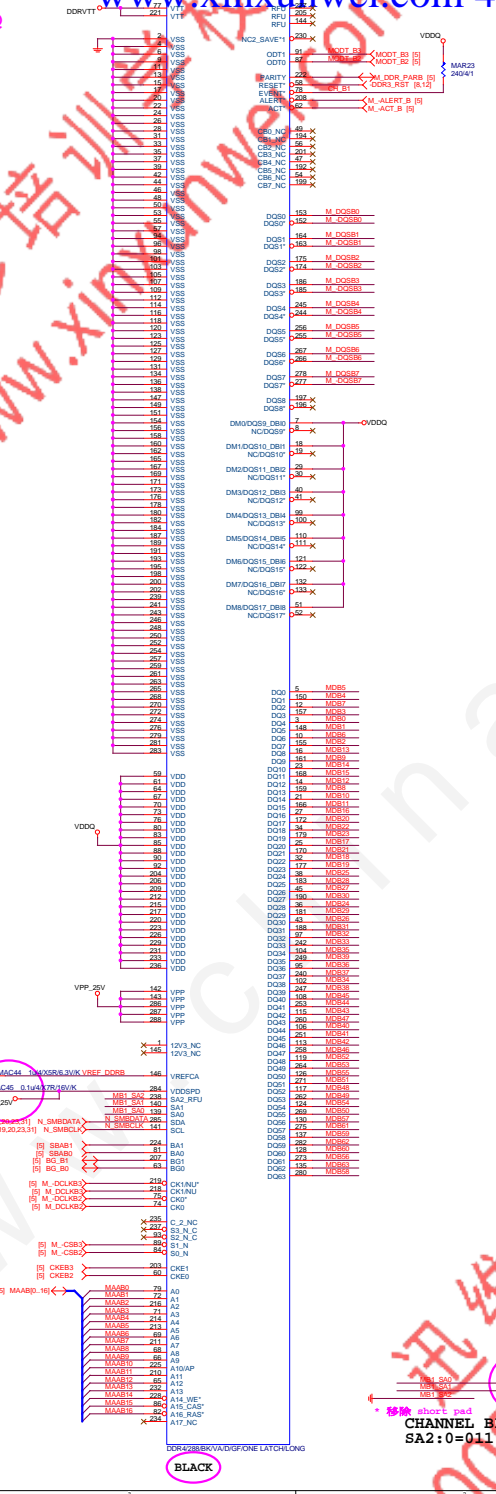
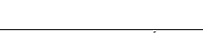


Gigabyte Technology

Title		
CPU LGA1151-C		
Size	Document Number	Rev
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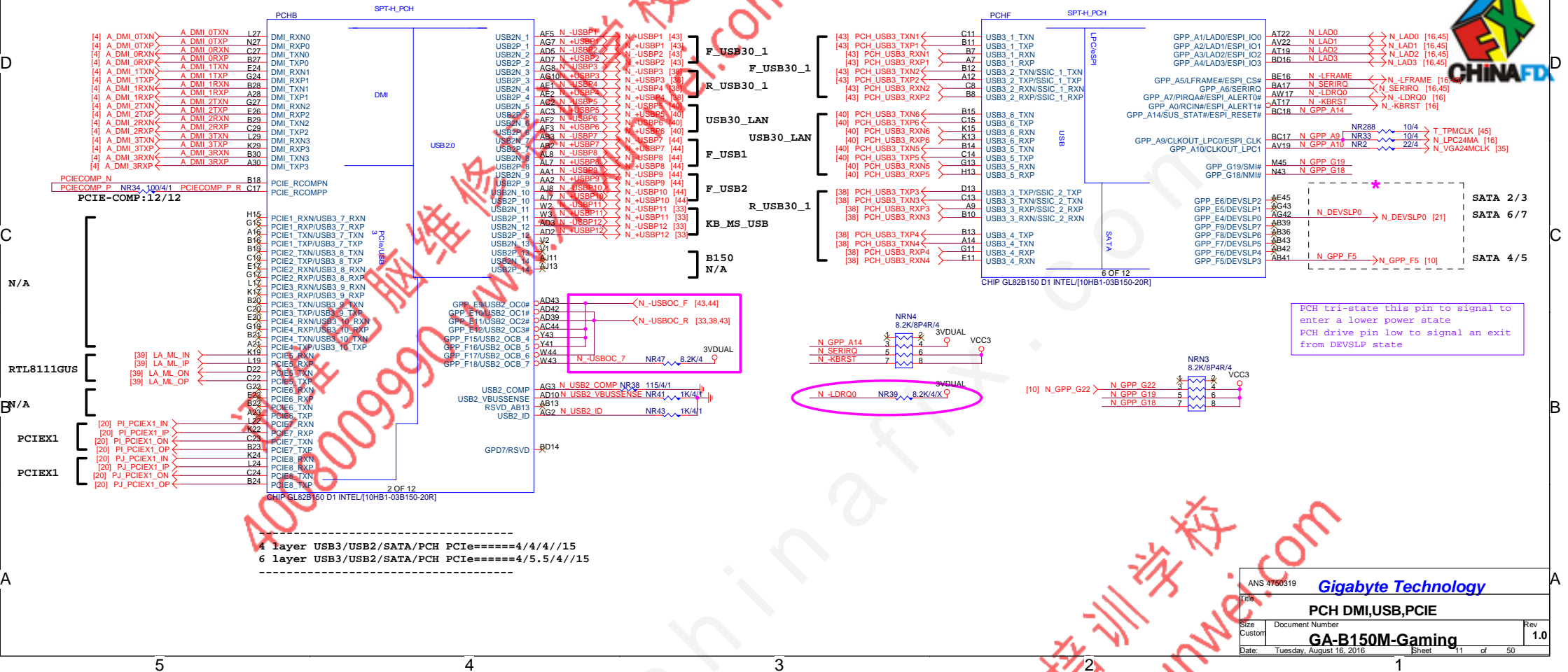


Gigabyte Technology			
DDR4 CHANNEL A			
Doc Number	GA-B150M-Gaming	Rev	1.0
Doc Name		Doc Date	



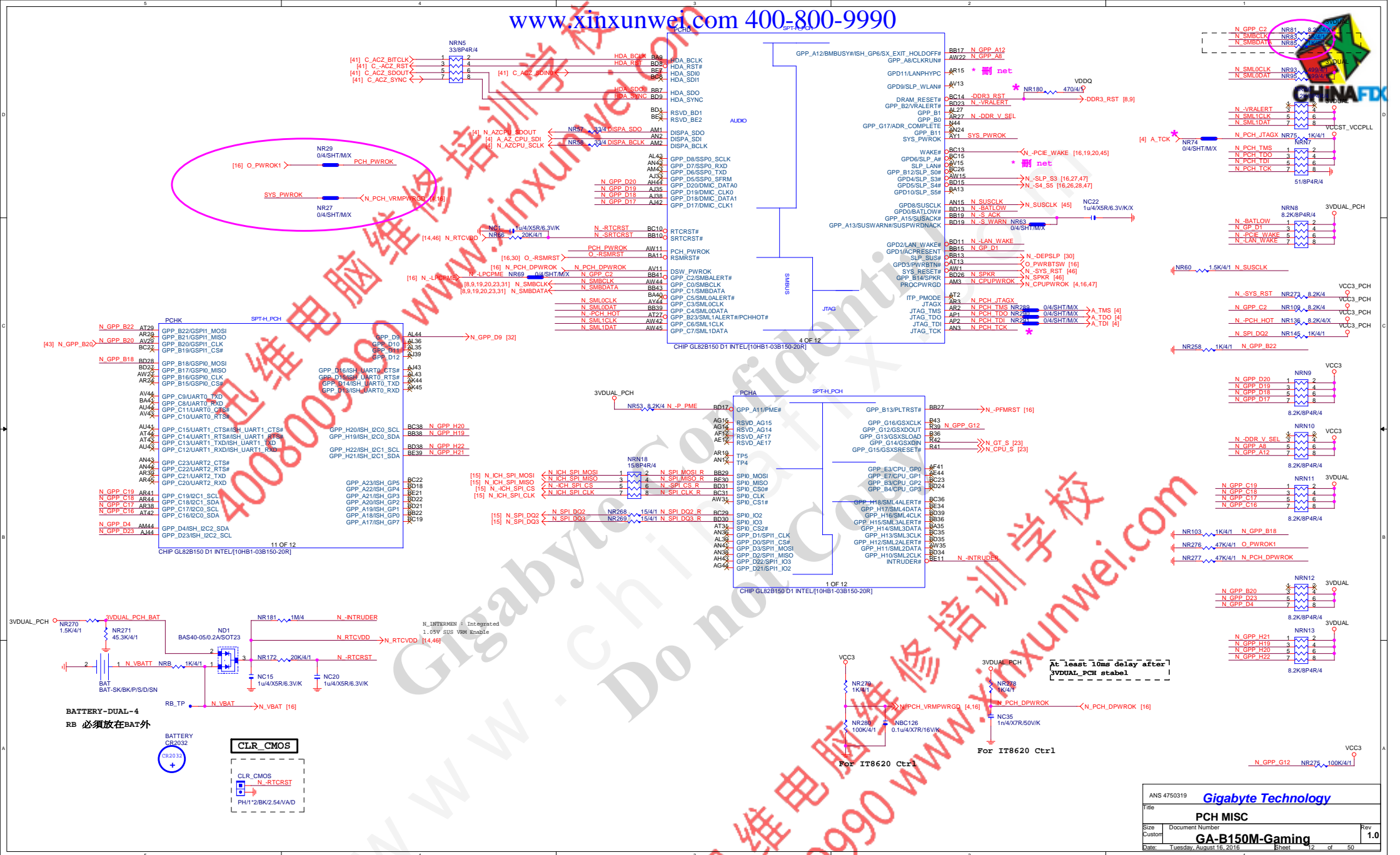
<i>Gigabyte Technology</i>			
Title			
DDR4 CHANNEL B			
size	Document Number		Rev
Custom	GA-B150M-Gaming		1.0
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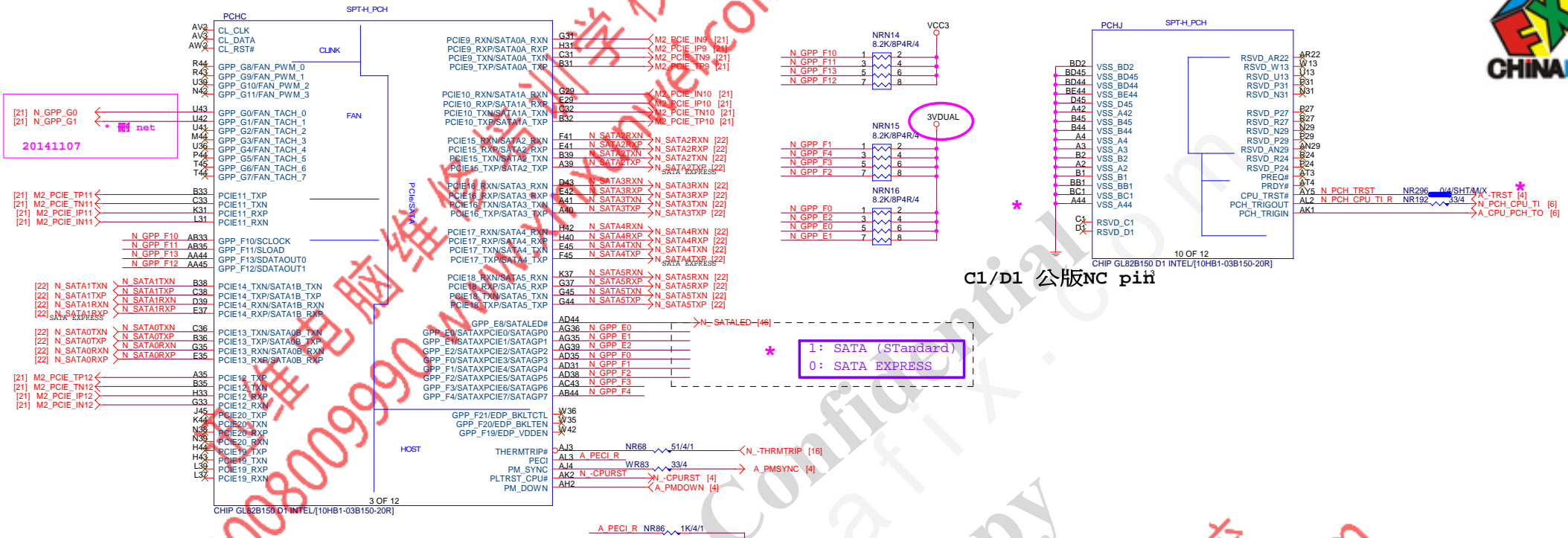


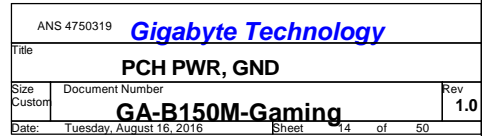


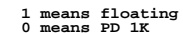
4 layer USB3/USB2/SATA/PCH PCIe=====4/4/4/15  
6 layer USB3/USB2/SATA/PCH PCIe=====4/5/5/4/15

ANS 4750319		Gigabyte Technology	
Title		PCH DMI,USB,PCIE	
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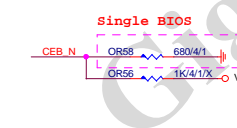
\* 試產先上，PVT 移除



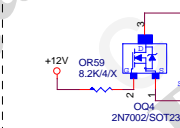
FAN TABLE	
CPU_FAN	FAN_CTL1 FAN_TAC1
SYS_FAN1	FAN_CTL2 FAN_TAC2
SYS_FAN2	FAN_CTL3 FAN_TAC3
SYS_FAN3	FAN_CTL5 FAN_TAC5
OPT_FAN or SYS_FAN4	N/A
THRMTrip1	YES PIN60
THRMTrip2	YES PIN94

IT8628E GPIO問題匯整	
PIN 50	GP26-第一次接上POWER時 會拉 Lo
PIN 90/91	DEFAULT為HDLed FUNCTION, GP93 BYPASS TO GP92 高溫時 GP92 會被拉 Lo (ITE BUG)
PIN 108	GP40--- POWER ON 時會拉 Lo
PIN 111/112	MOUSE 跟FAN6 FUNCTION 擇一使用, 不然而會互相干擾
PIN 22	PIN22, 需高於3V, 若低於 該部分COM PORT及LPT將會 異常動作。

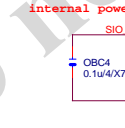
DUAL BIOS OPT STRAP



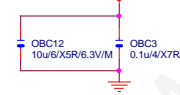
Power leakage



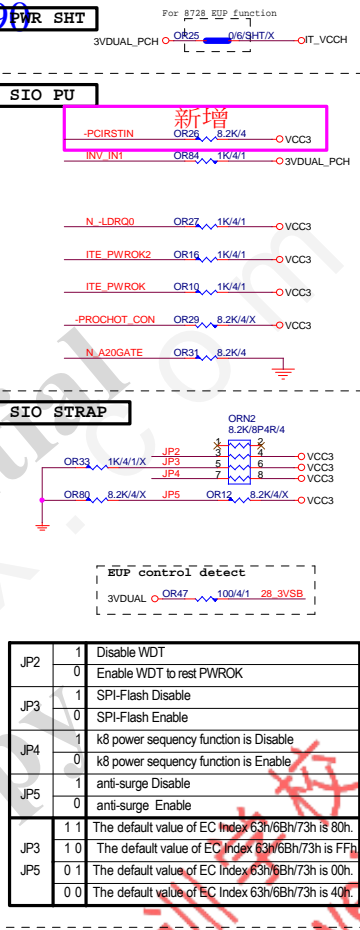
SIO 18V



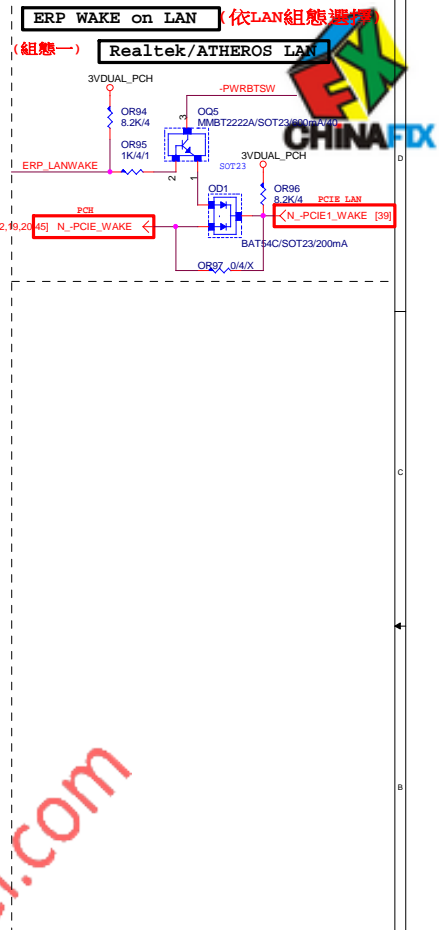
SIO CAP



SIO STRAP



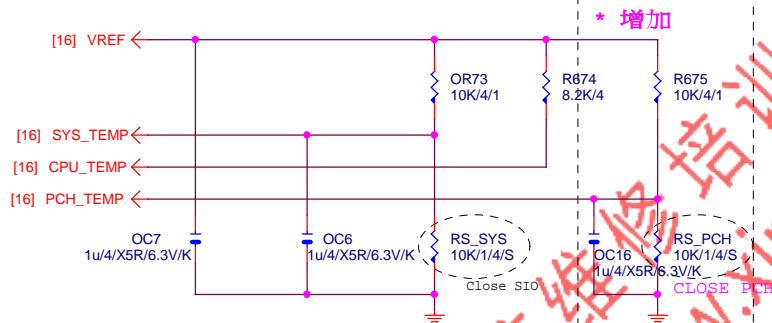
FAN TABLE	
CPU_FAN	FAN_CTL1 FAN_TAC1
SYS_FAN1	FAN_CTL2 FAN_TAC2
SYS_FAN2	FAN_CTL3 FAN_TAC3
SYS_FAN3	FAN_CTL5 FAN_TAC5
OPT_FAN or SYS_FAN4	N/A
THRMTrip1	YES PIN60
THRMTrip2	YES PIN94



FAN TABLE	
CPU_FAN	FAN_CTL1 FAN_TAC1
SYS_FAN1	FAN_CTL2 FAN_TAC2
SYS_FAN2	FAN_CTL3 FAN_TAC3
SYS_FAN3	FAN_CTL5 FAN_TAC5
OPT_FAN or SYS_FAN4	N/A
THRMTrip1	YES PIN60
THRMTrip2	YES PIN94

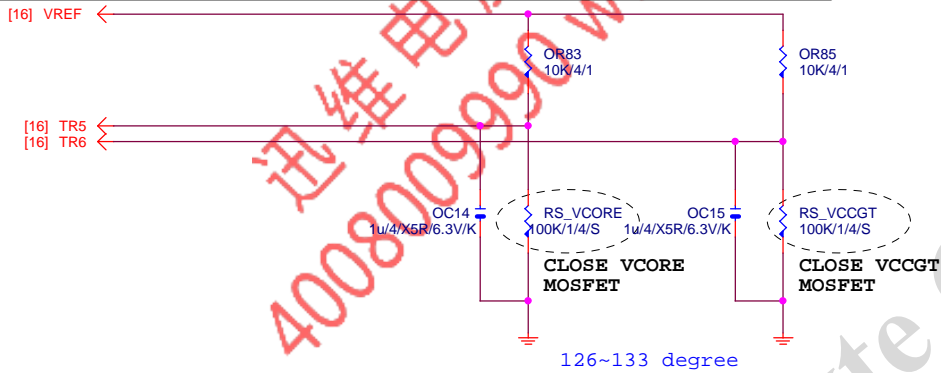
## TEMP H/W MONITOR

REV 1.06



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

-PROCHOT:有mos heartsink不用prochot function

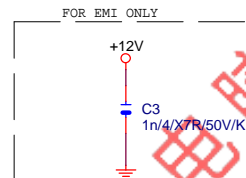
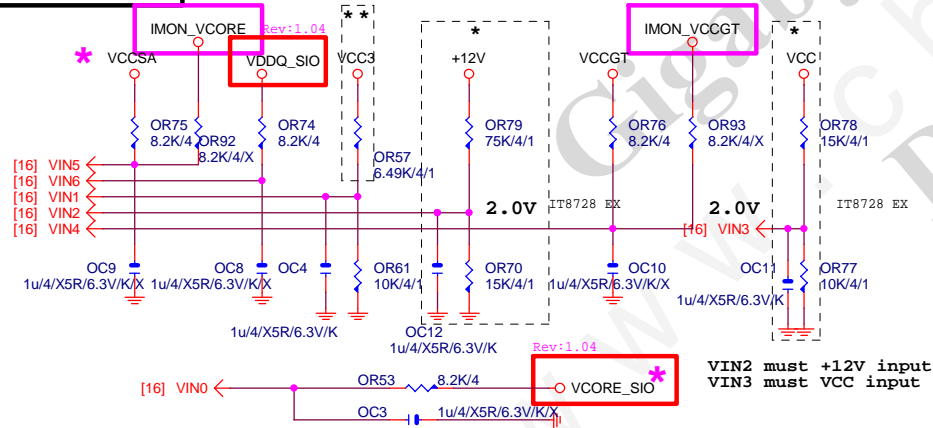


## VOLTAGE-- H/W MONITOR

Connect to PWM

\* IT8728 BX  
\*\* IT8728 CX

Connect to PWM



Gigabyte Technology

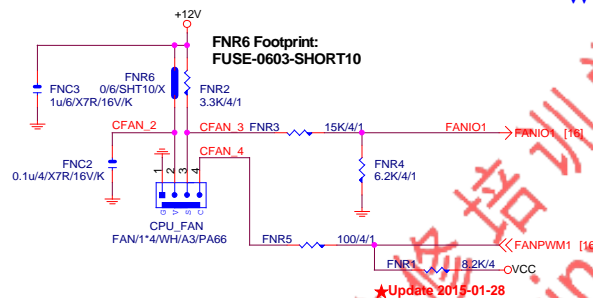
Title			HWM,KB/MS, FAN CTRL	
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# CPU SMART FAN

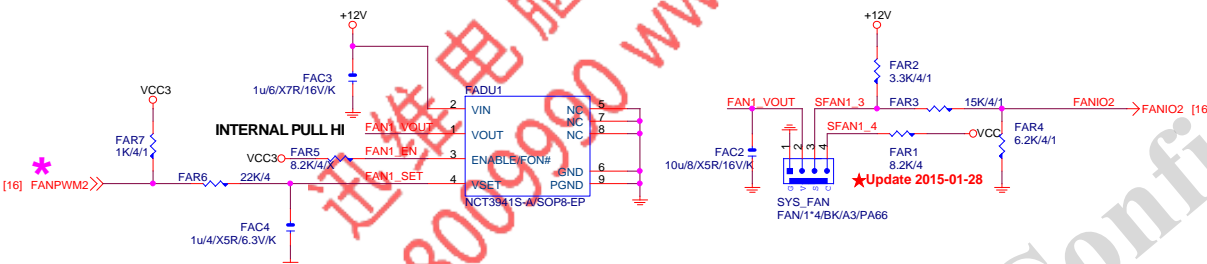
Rev: 0.51

Trace 40mil  
Pad 10 mil  
Trace 40mil  
Pin2

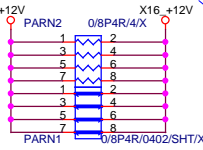


# SYSTEM FAN1

A. Enable Function (NCT3941S)  
Full Turn On Function (NCT3941S-A)



+12V\_protect  
short-wire test



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	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

PCIE16:16/5/5/5/16

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

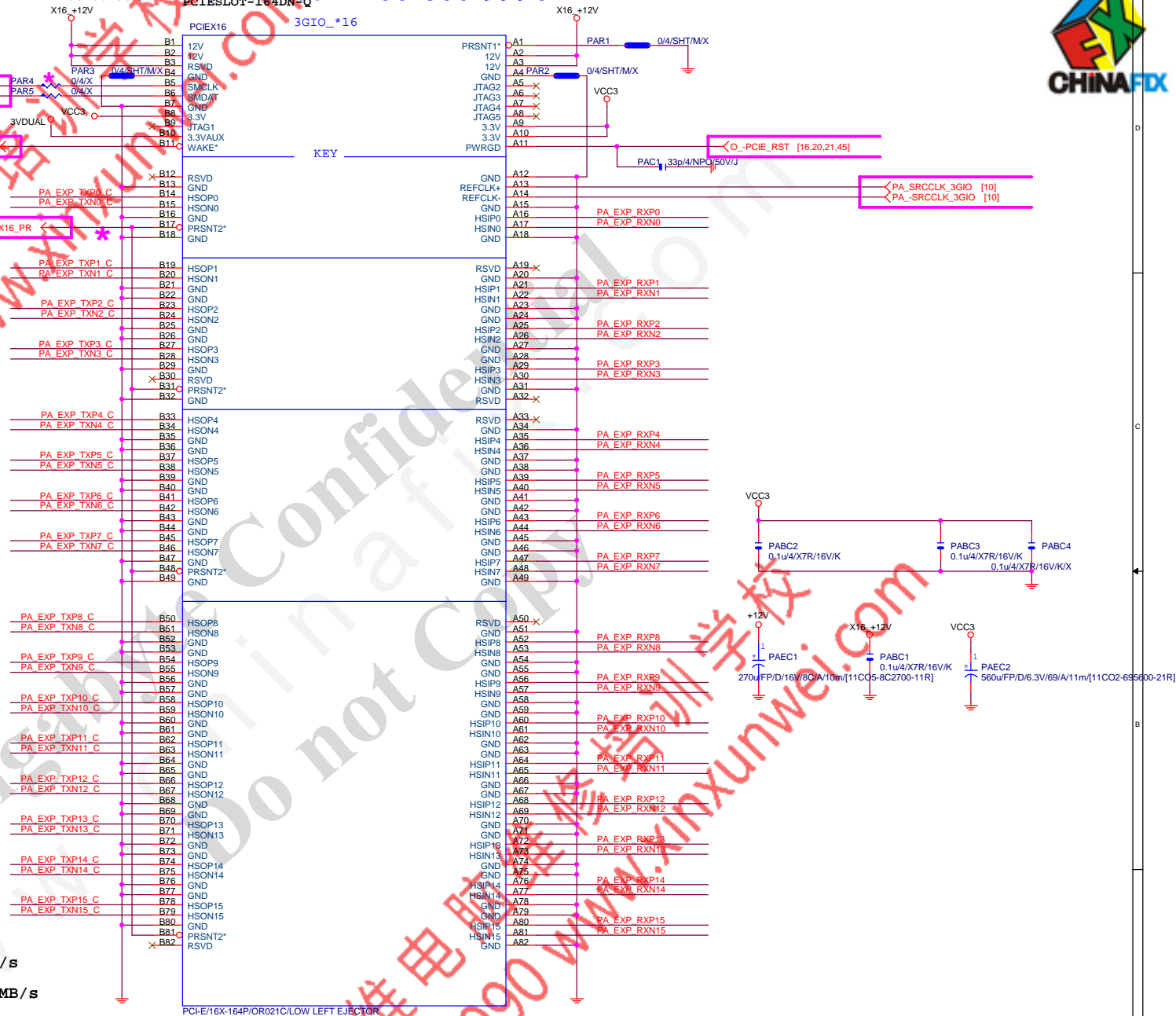
PCE-E X1(單向) BANDWIDTH=2.5GHz\*(8b/10b)=2Gb/s=250MB/s

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

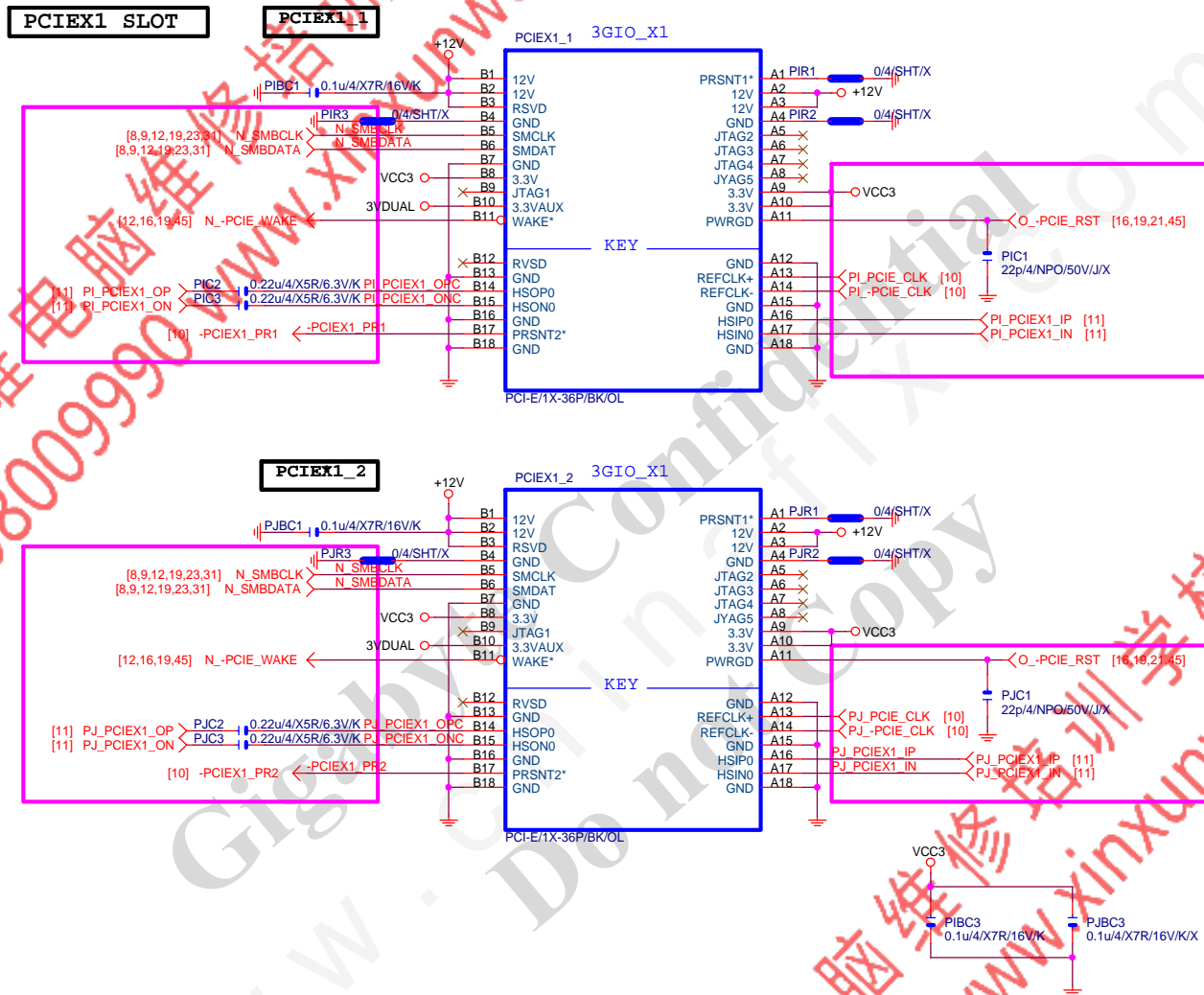
PCI-E REV:2.0--&gt; 5GHZ



橘色 CONNECTOR

Gigabyte Technology

Title			PCI EXPRESS * 16	
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PCIE_X1 1,2				
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## M.2 Lane4 from PCH port18

## M.2 Lane3 from PCH port17

## M.2 Lane2 from PCH port16

## M.2 Lane2 from PCH port15

## 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	

## DIP螺柱



CR[12KSF-F10303-01R]

## SMD螺柱



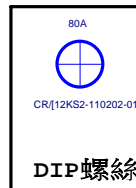
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CR[11KS2-040002-01R]

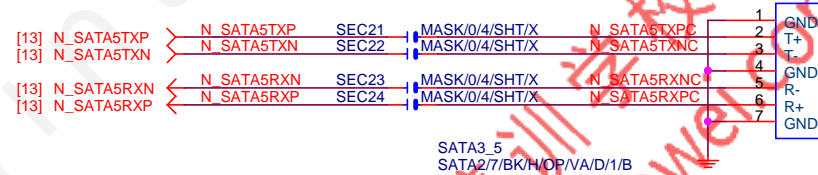
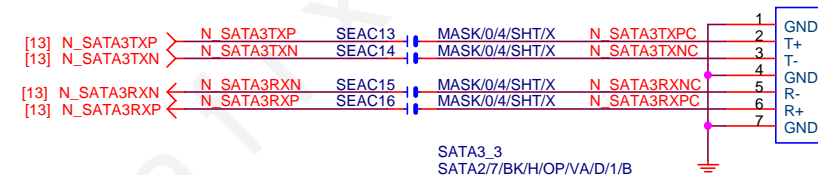
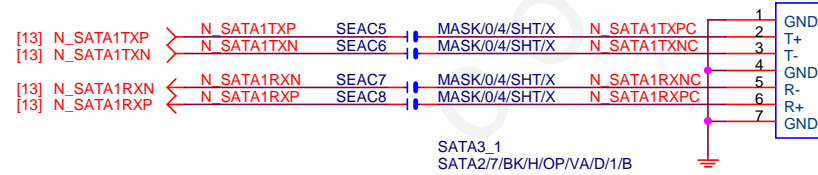
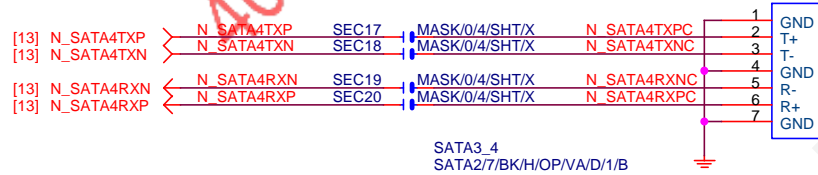
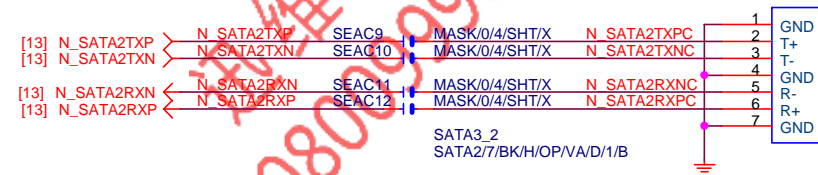
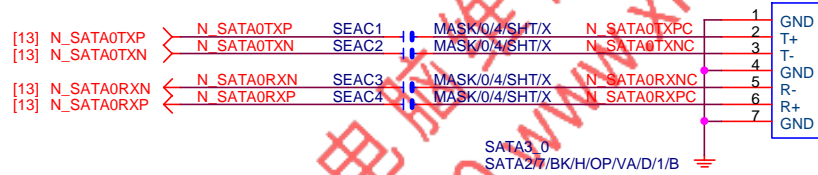


CR[11KS2-040002-01R]



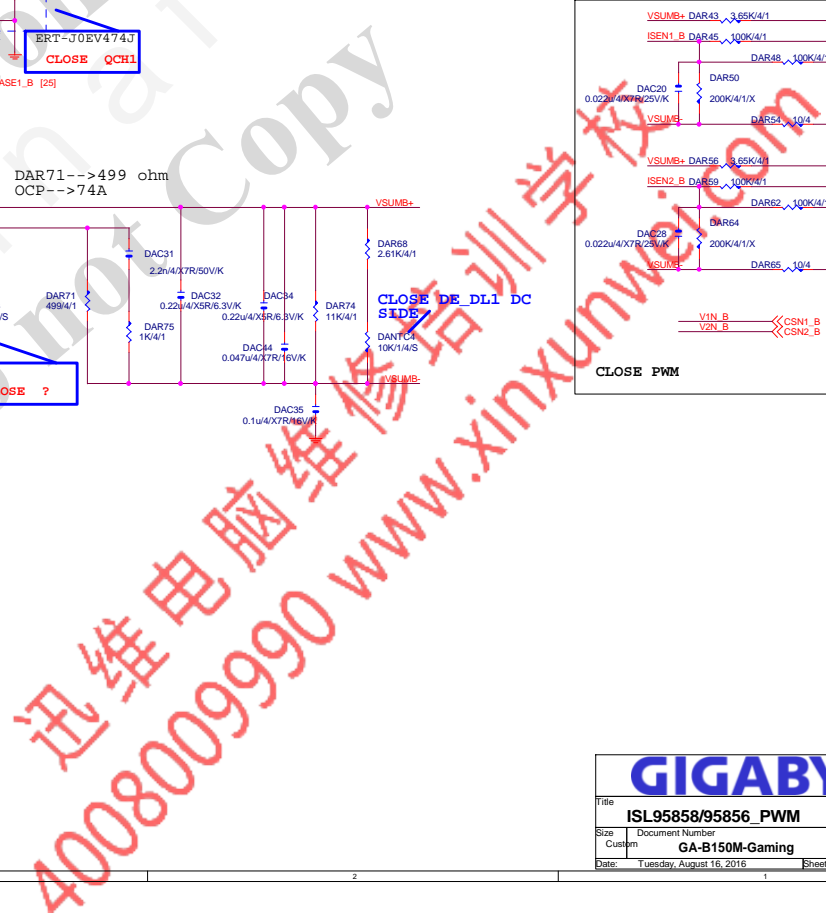
DIP螺絲

Gigabyte Technology			
M.2 X4			
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Custom	GA-B150M-Gaming	1.0	
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**Gigabyte Technology**Title  
**SATA EXPRESS**Size Custom Document Number  
**GA-B150M-Gaming**Rev  
**1.0**

Date: Tuesday, August 16, 2016

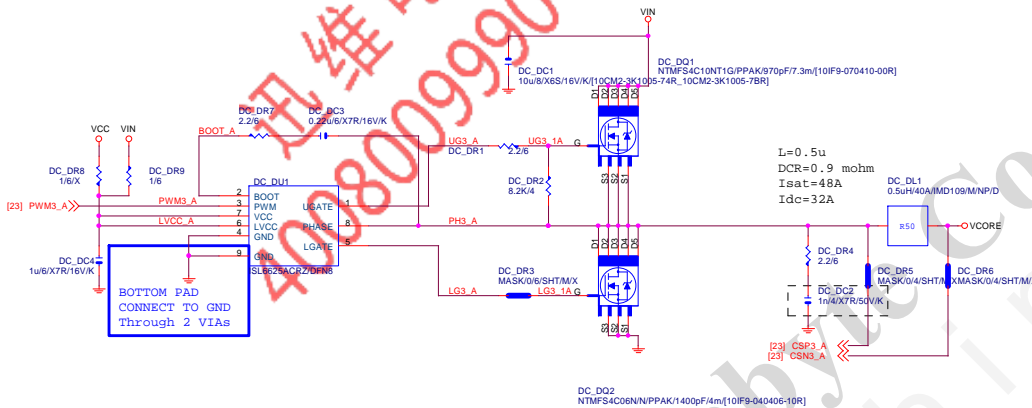
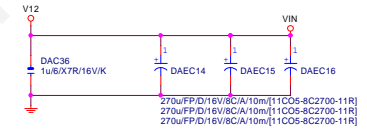
Sheet 22 of 50



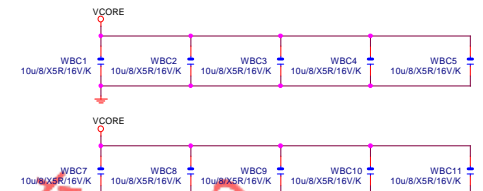
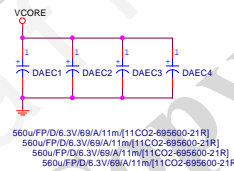
VCORE



VIN CAP 270u\*3PCS



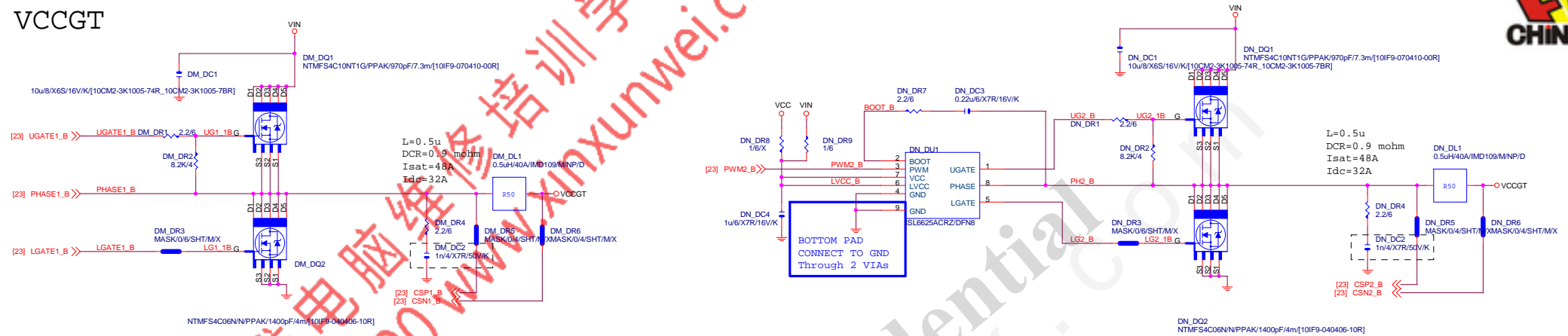
VCORE CAP 560u\*8PCS  
22u\*29PCS



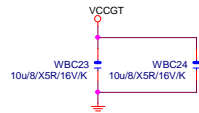
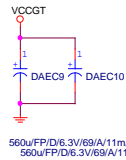
GIGABYTE™			
Title			
ISL95858_856 MOS			
Size	Document Number	Rev	
Custm	GA-B150M-Gaming	1.0	
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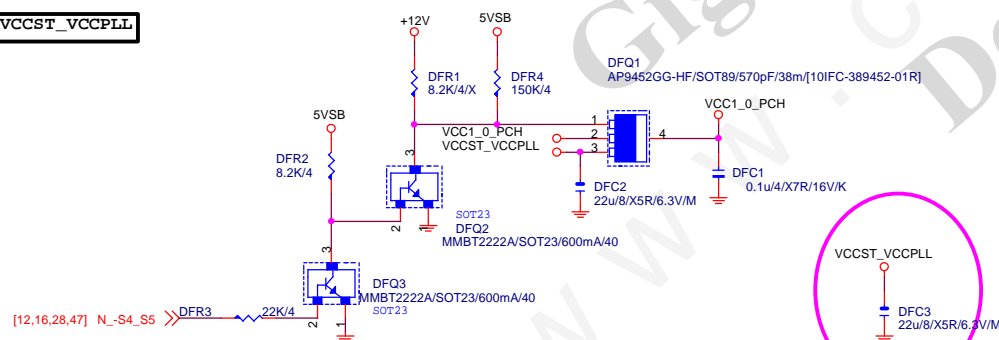
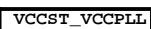
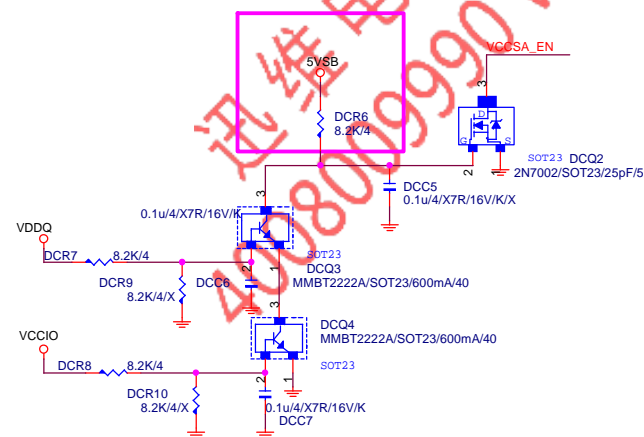
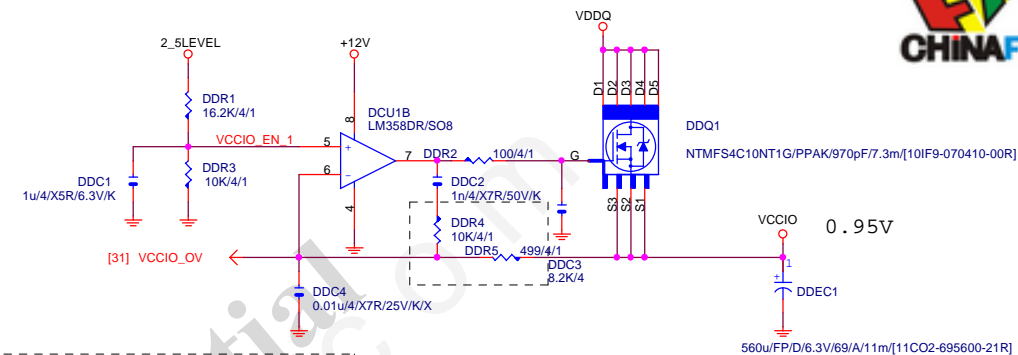
## VCCGT



## VCCGT CAP


560u\*5PCS  
22u\*15PCS

GIGABYTE™			
Title			
ISL95858_MOS			
Size		Document Number	Rev
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## CHOKES與CAP料號可變

			
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RT8068A_VPP25_POWER			
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REV:0.47

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CHOKE與CAP料號可變

注意耐壓

L=0.5u  
DCR=2.1 mohm  
Isat=20A  
Idc=15A

Remote sense請從最重的負載端點拉回

請放置CHOKE一出來的地方

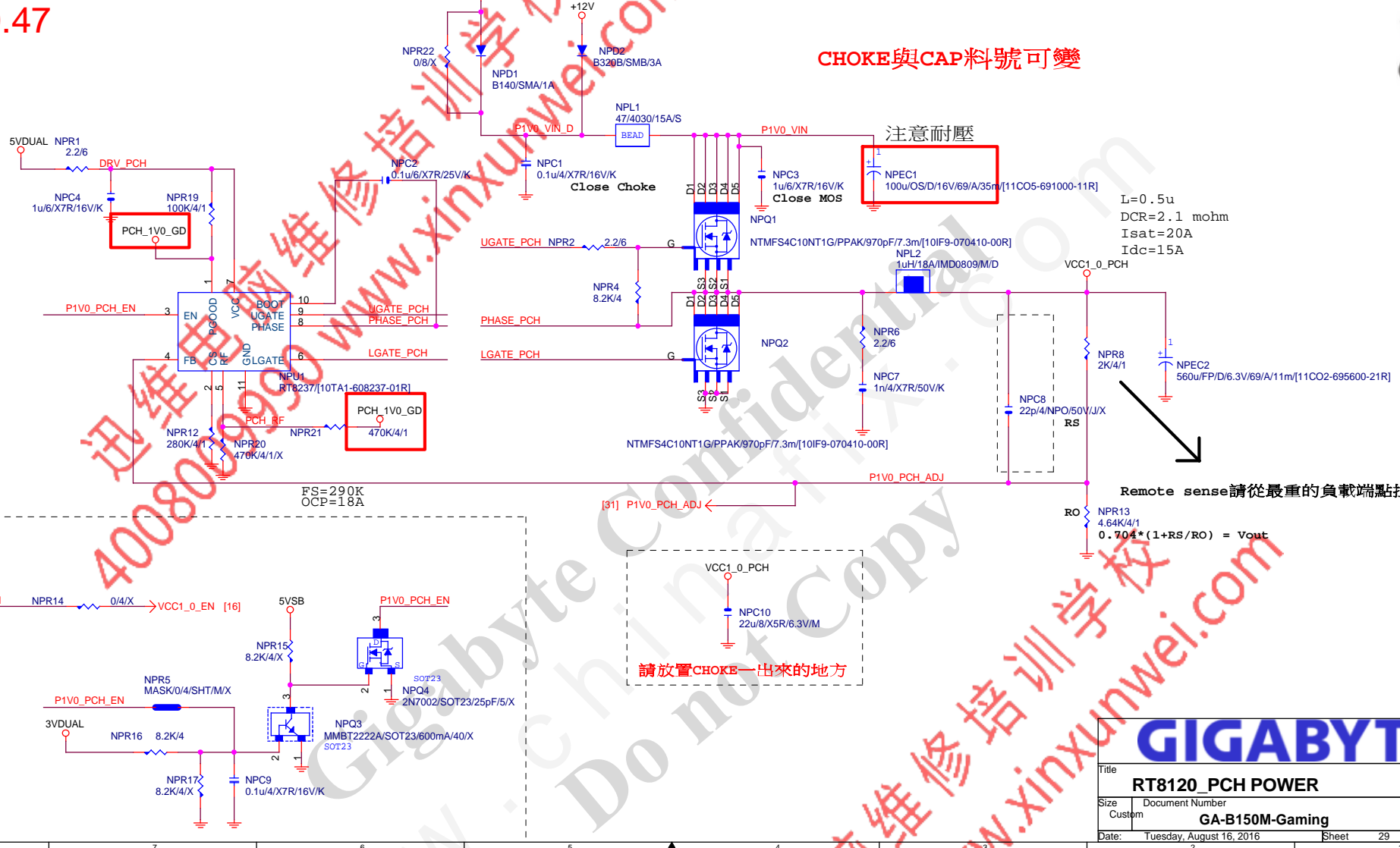
PWR\_SEQ

**GIGABYTE™**

Title  
**RT8120\_PCH POWER**

Size Document Number  
Custom **GA-B150M-Gaming** Rev **1.0**

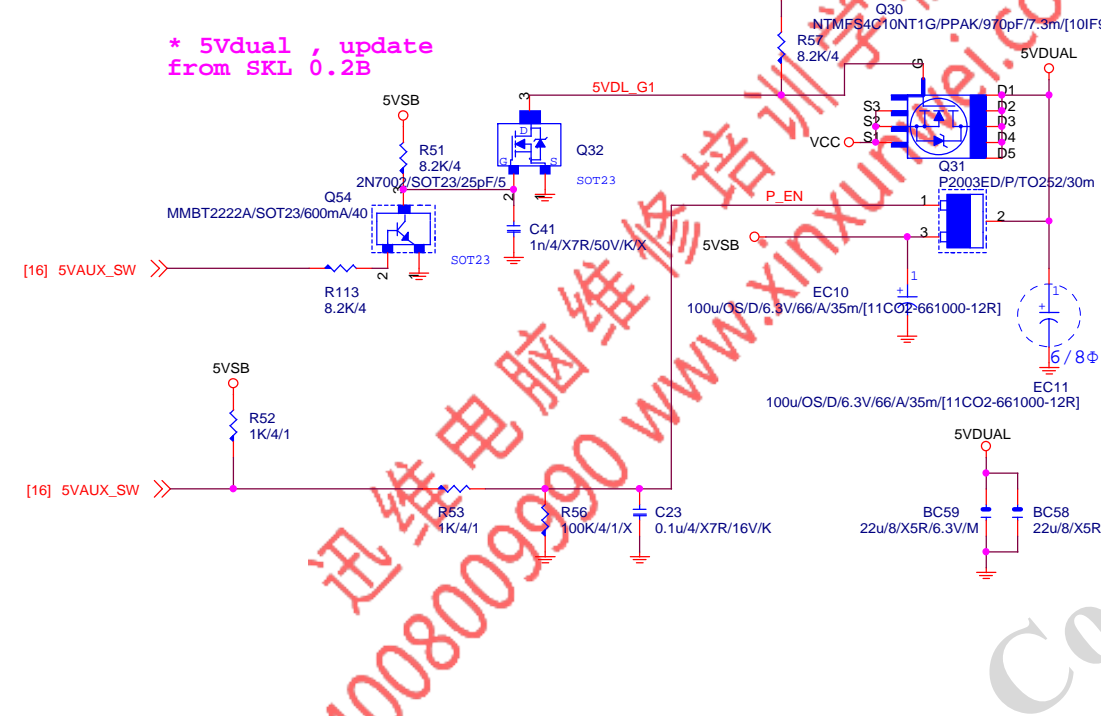
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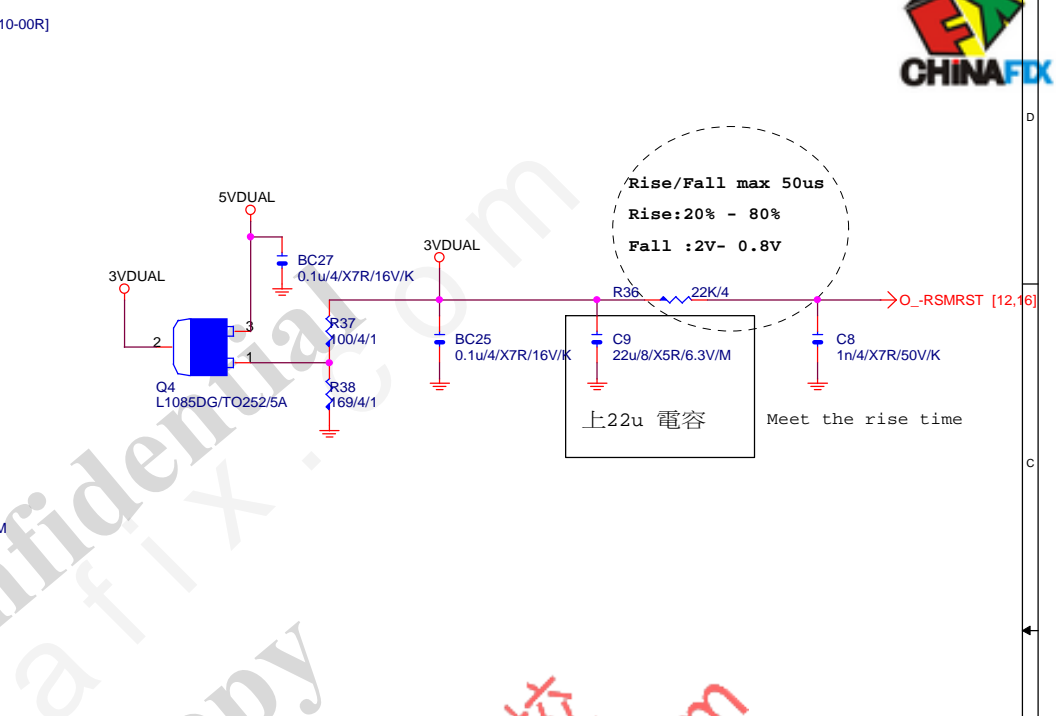
5VDUAL

REV:0.51

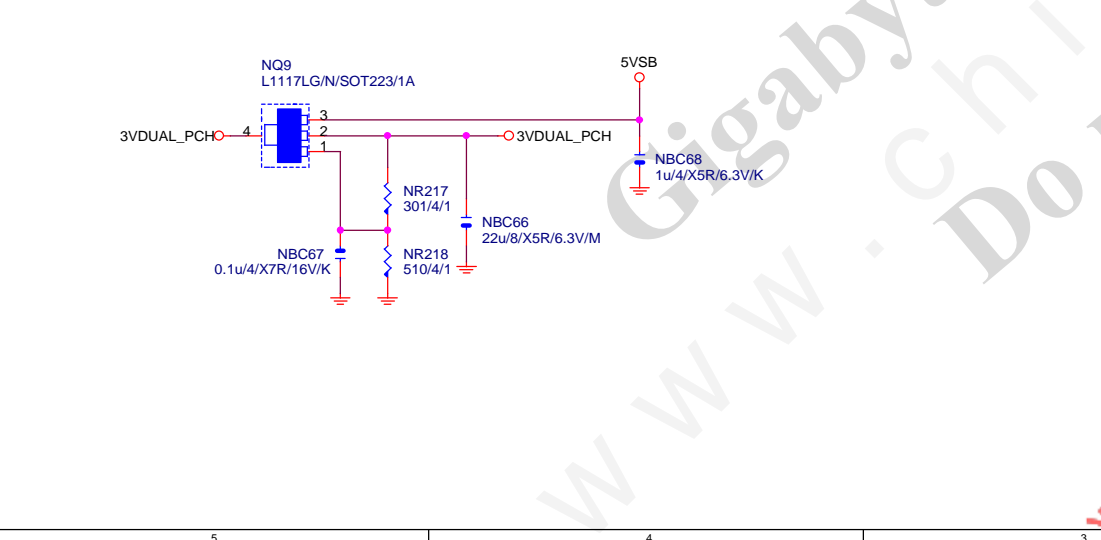
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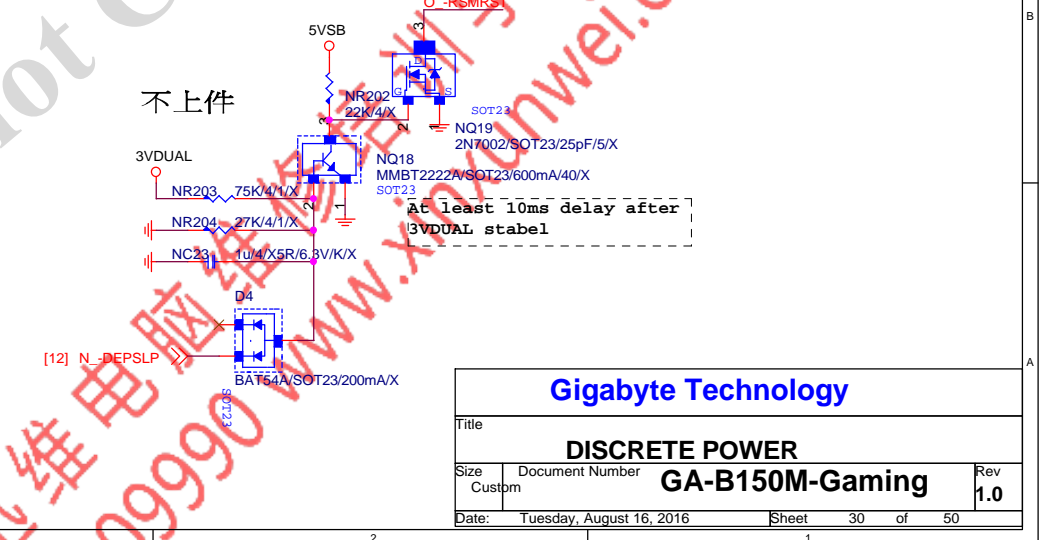
3VDUAL



3VDUAL\_PCH



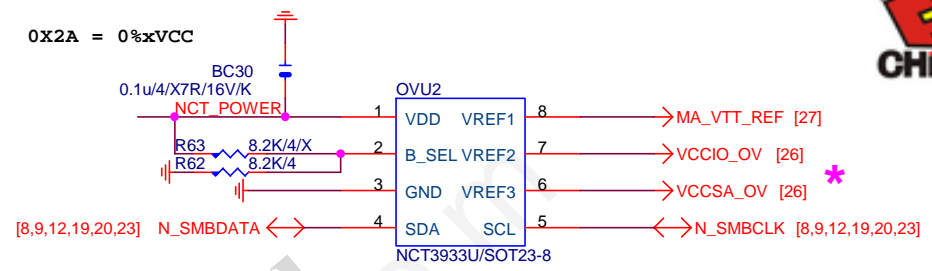
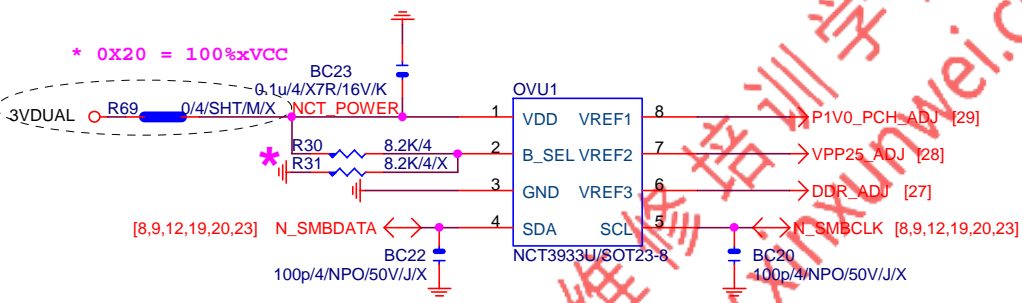
O\_-RSMRST



Gigabyte Technology

Title			
DISCRETE POWER			
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OVER VOLTAGE



\* 删除 OVU3

NCT3933	0X20	0X2A	
VREF1	PCH Core	DDRVTT	
VREF2	N/A	VCCIO	
VREF3	DDR	VCCSA	

**Gigabyte Technology**

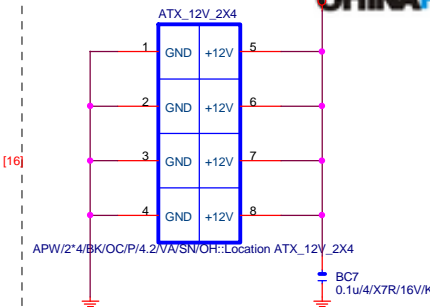
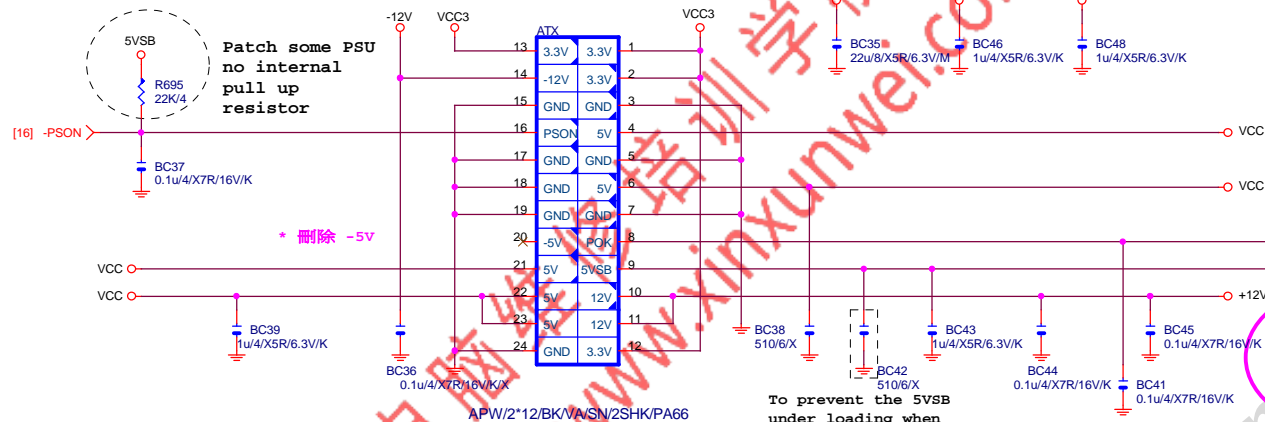
Title CPU CORE VR-2

Size Custom	Document Number	Rev 1.0
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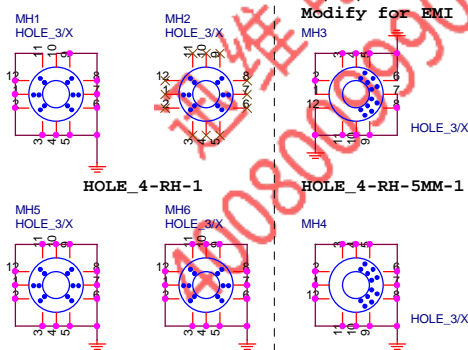
# ATXX24 POWER CONNECTOR

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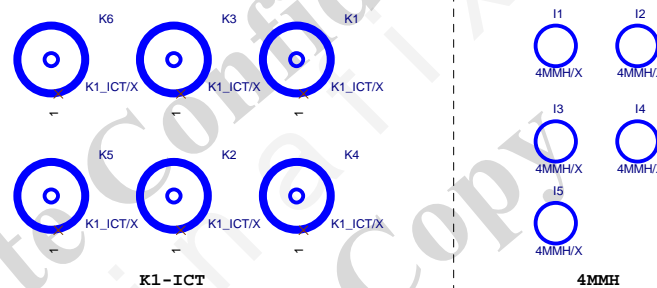
# ATXX4 POWER CONNECTOR



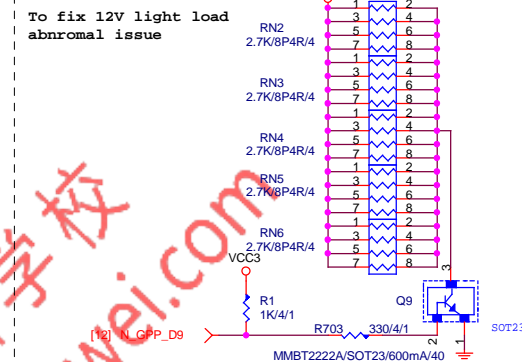
## 螺絲孔



## 固定孔/光學點

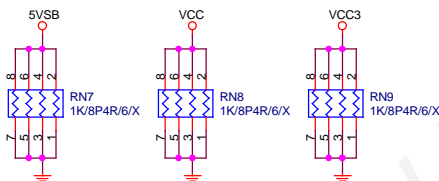


## +12V DUMMY LOAD



【技術通報R&D技術通報153】

## DUMMY LOAD



## -PROHOT

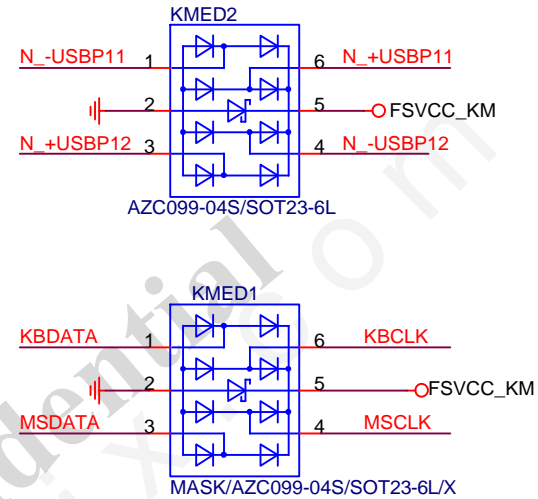
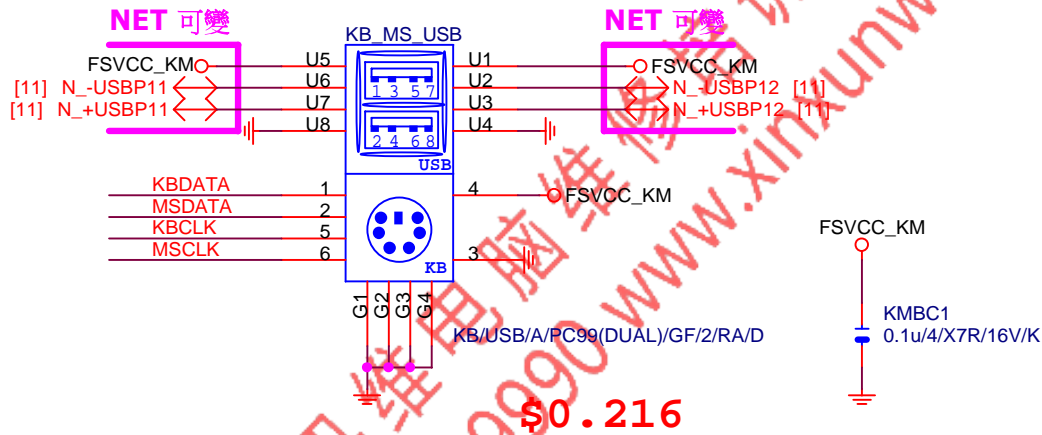


## COUPON

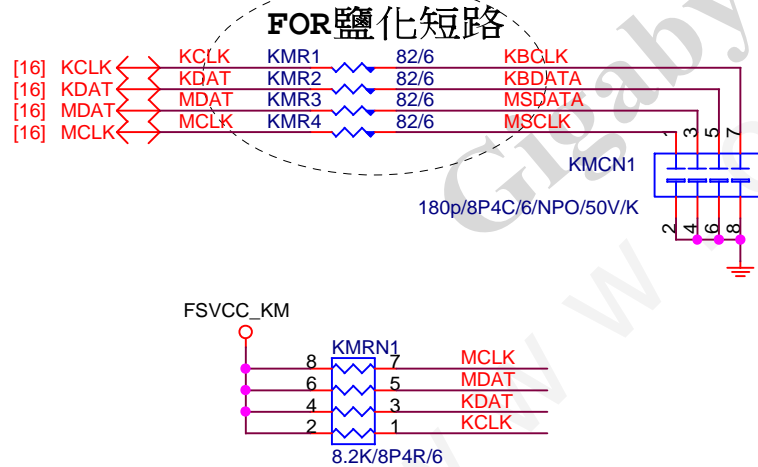


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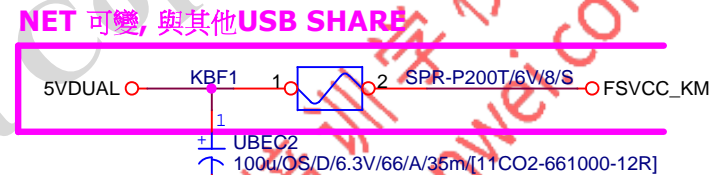
Title		
ATX POWER CONNECTOR		
Size	Document Number	Rev
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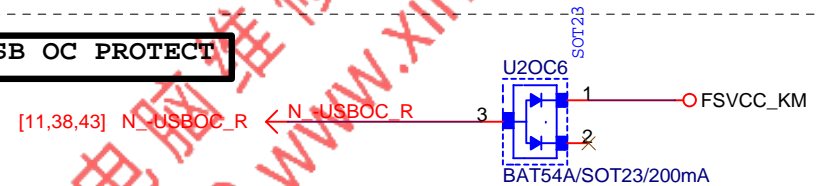
## KB\_MS\_USB DAMPING/PU



## KB\_MS\_USB PWR



## USB OC PROTECT



Gigabyte Technology

Title

KB\_MS\_USB

Size

Document Number

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1.0

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Sheet

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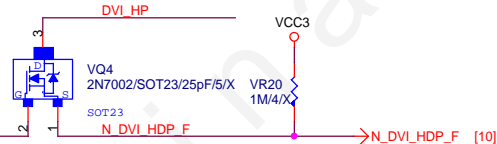
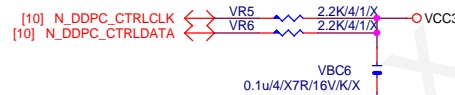
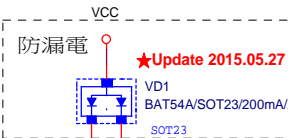
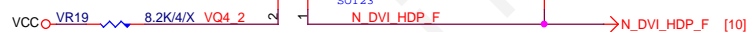
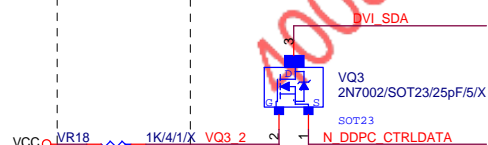
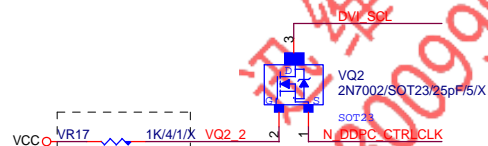
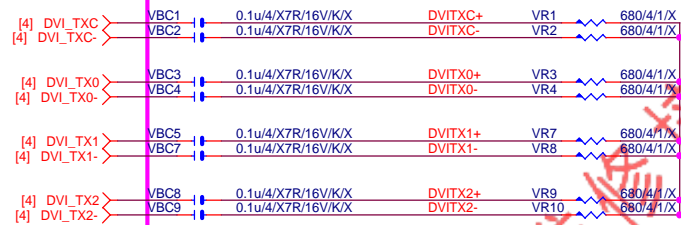
50

DVI

Rev: 0.51

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

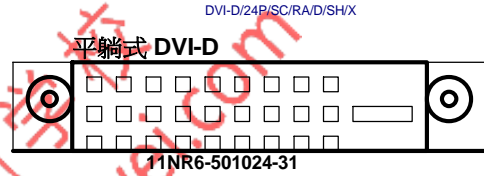
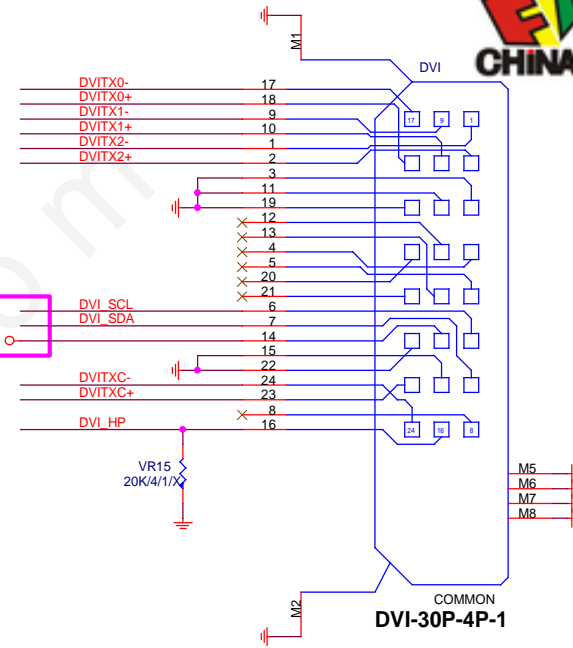
NET 可變



DVI CONN

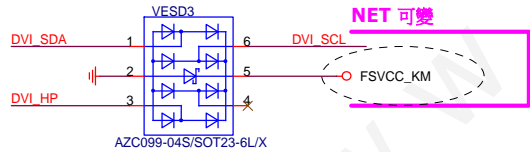
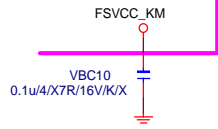
NET 可變

\* FSVCC\_KM



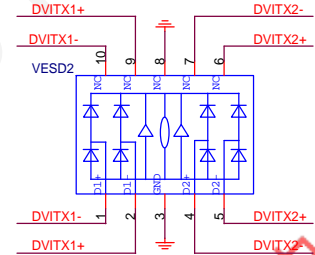
ESD

NET 可變



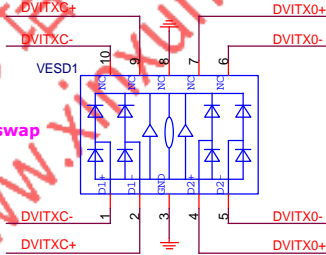
Close to connector

NET 可變



Close to connector

\* swap



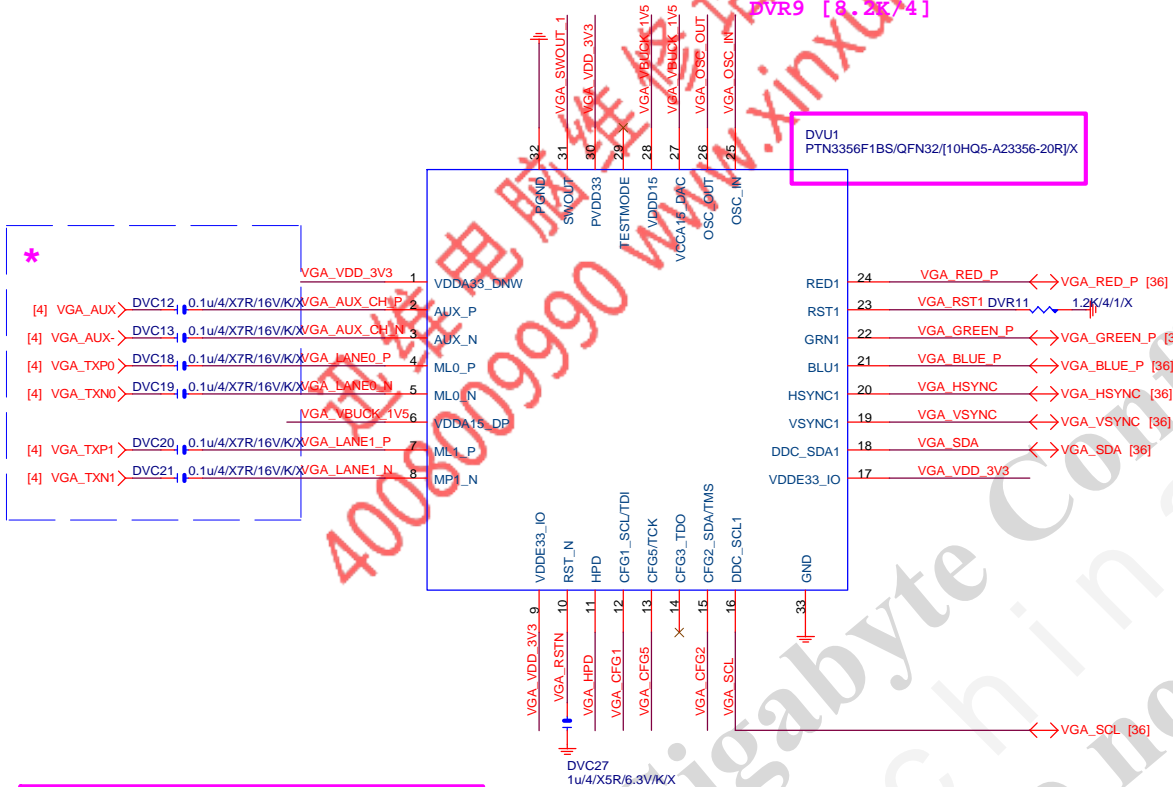
Close to connector

Gigabyte Technology

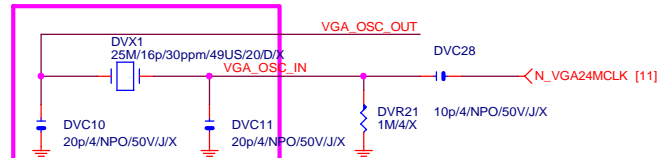
Title		
DVI		
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1. 上件:  
DVC28 [10p/4/NPO/50V/J]  
DVC11 [10p/4/NPO/50V/J]~修改值  
DVR10 [8.2K/4]

2. 删除:  
DVM1 [25M/16p/30ppm/49US/20/D]  
DVC10 [20p/4/NPO/50V/J]  
DVR9 [8.2K/4]



## 放置PCH端



VCC3

DVL1  
0/6/SHT/M/X

VGA\_VDD\_3V3

DVC14  
4.7uF/6.3V/K/X

DVC15  
0.1uF/4X7R/16V/K/X

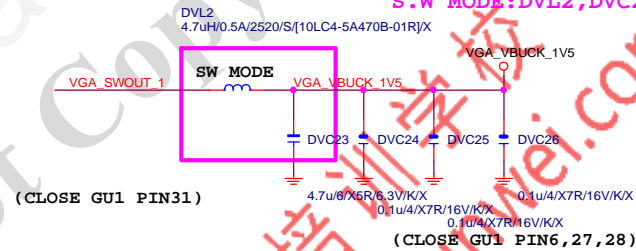
DVC16  
0.1uF/4X7R/16V/K/X

DVC17  
0.1uF/4X7R/16V/K/X

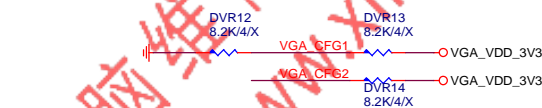
DVC22  
0.1uF/4X7R/16V/K/X

(CLOSE GUI PIN1,9,17,30)

```
LDO  MODE:DVL2,DVC23-->X
S.W  MODE:DVL2,DVC23-->O
```



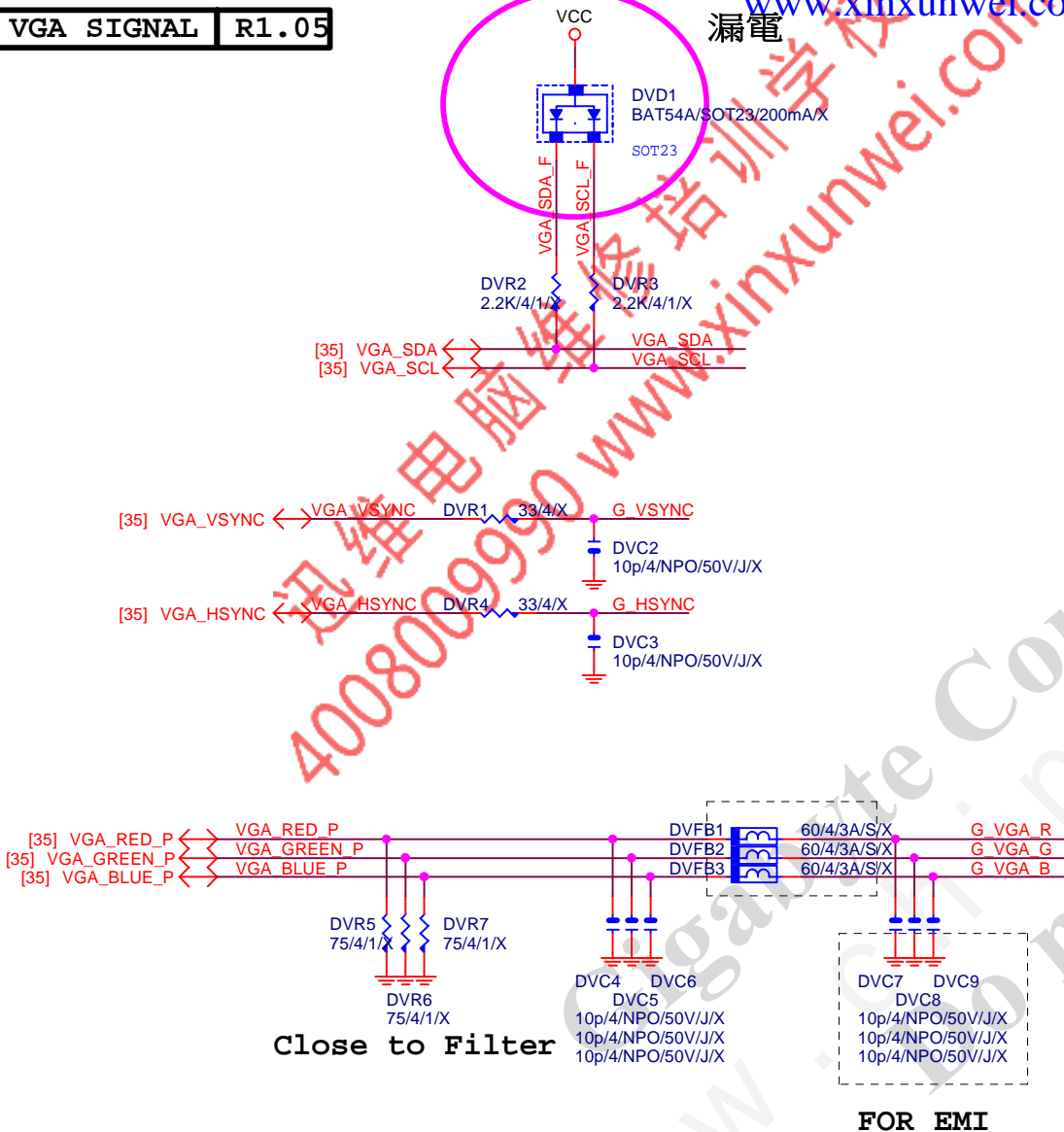
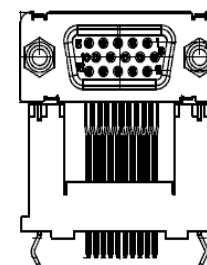
Non-Compliant



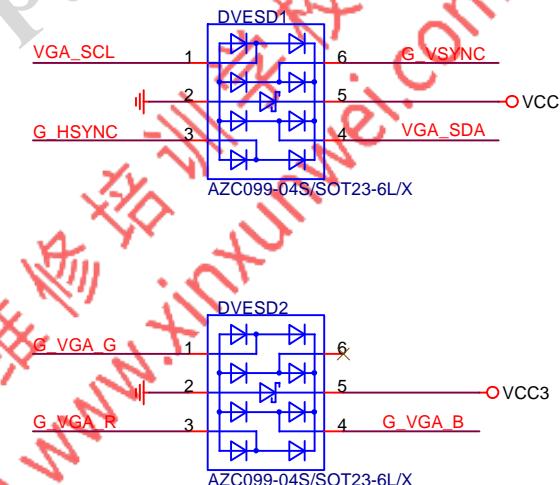
VGA HPD → N\_VGA\_HDP\_F [10]

DVR16  
100K/4/1/X





## VGA ESD



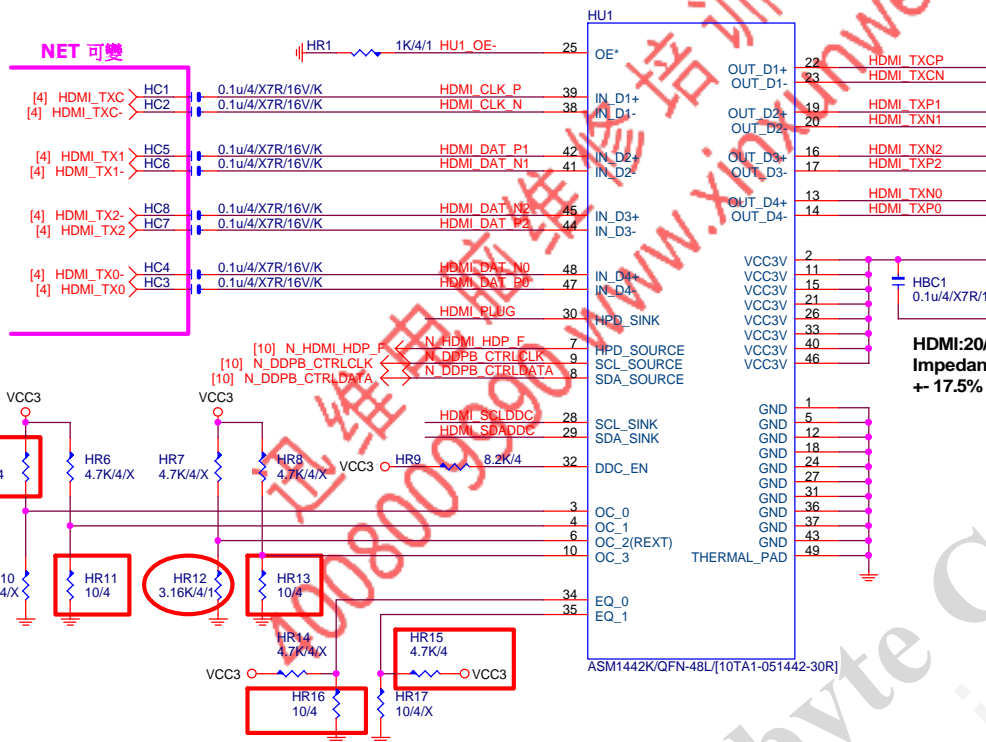
Gigabyte Technology  
NXP-PTN3356

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## HDMI LEVEL SHIFT

Rev: 0.54

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PTN3360:PIN 4/10/34/35 NC PIN,都不上值;只上HR12:10K

ASM1442:紅色框要上,HR12:3.16K

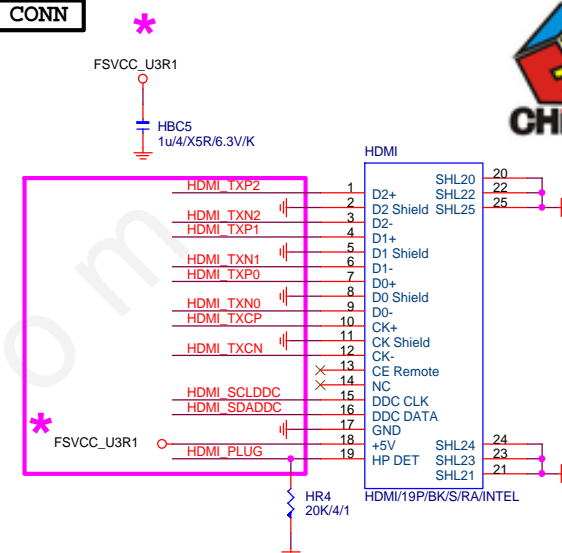
## 【技術通報R&amp;D技術通報150】

HDMI eye diagram 1.4版(deep color)會fail

原因: 因目前的HDMI訊號過長,造成RISING TIME過慢,而會壓到eye diagram

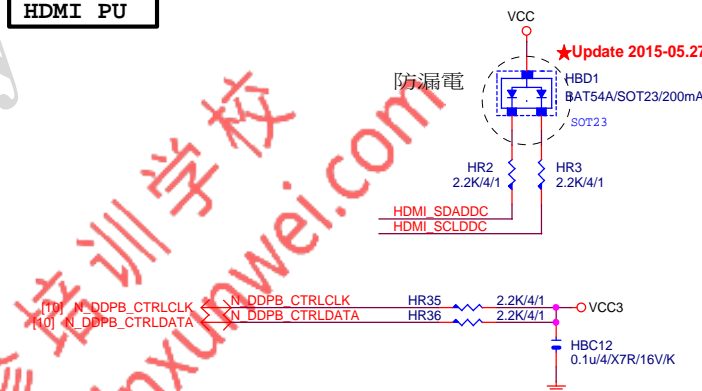
改善: ASMEDIA ASM1442 : 3.16K(PIN6 PULL DOWN電阻) 10ohm(PIN4 PULL DOWN電阻)

## HDMI CONN



DP+HDMI/20P+19P/BK/RA/D/[11NR6-H04039-02R]

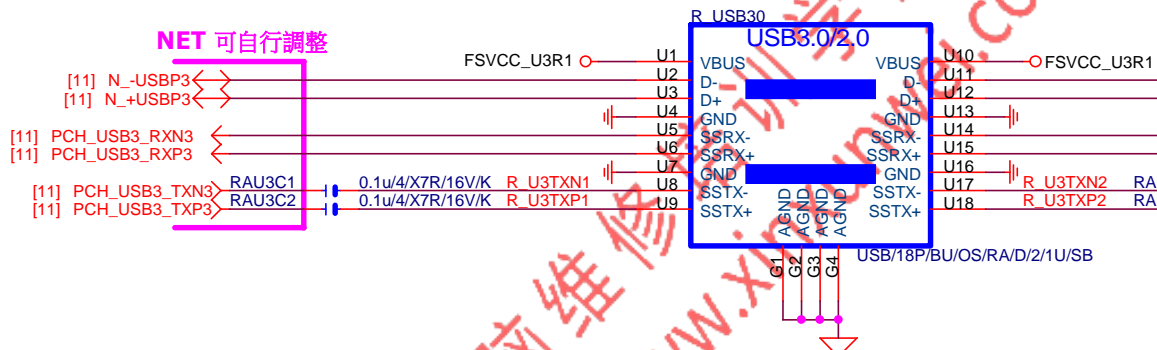
## HDMI PU



Gigabyte Technology

Title		HDMI	
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NET 可自行調整

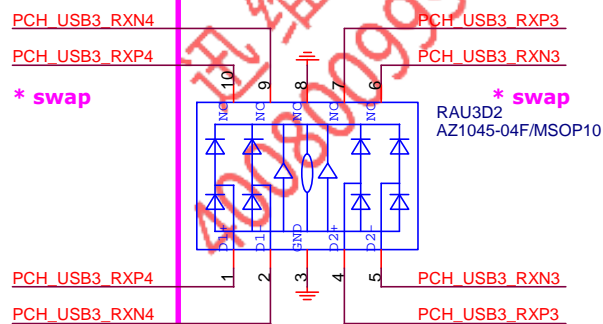


NET 可自行調整

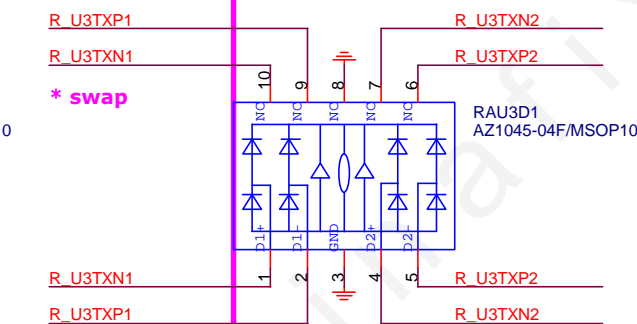
N\_-USBP4 [11]  
N\_+USBP4 [11]  
PCH\_USB3\_RXN4 [11]  
PCH\_USB3\_RXP4 [11]  
PCH\_USB3\_TXN4 [11]  
PCH\_USB3\_TXP4 [11]

## ESD

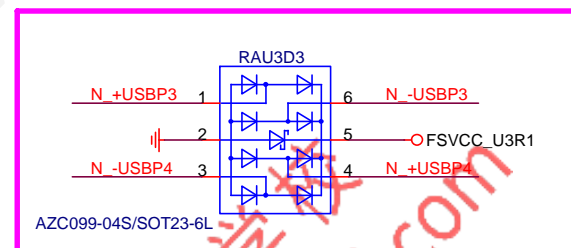
NET 可自行調整



NET 可自行調整

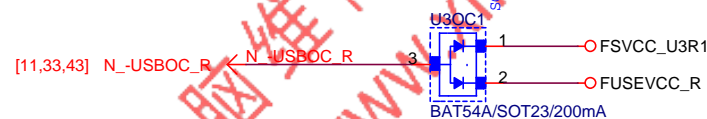
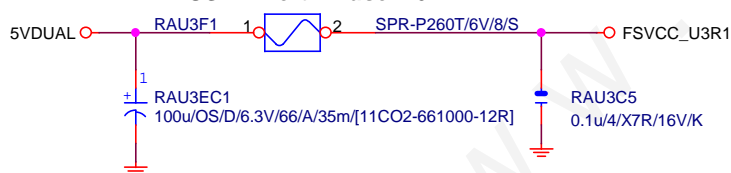


NET 可自行調整



## FUSE

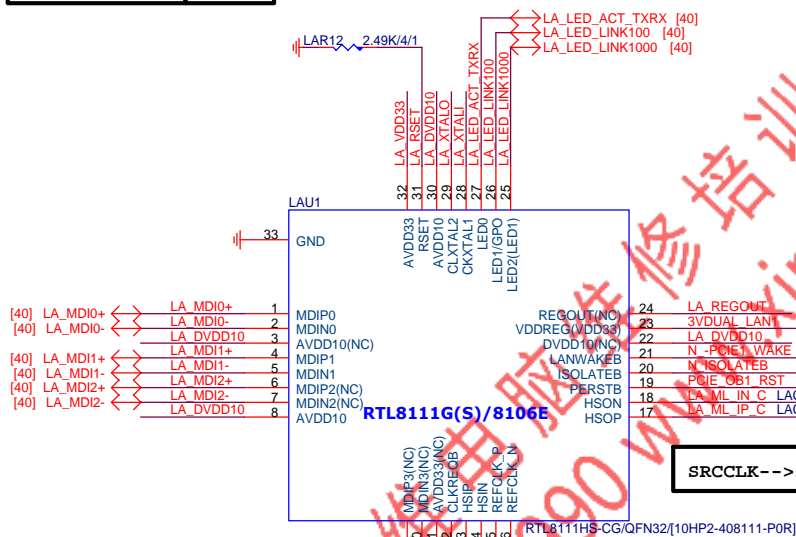
FUSE 2 Port 1 Fuse 2.6A



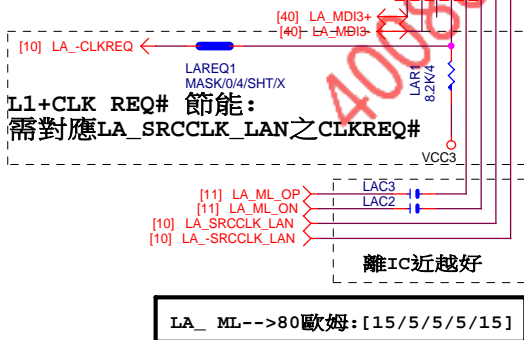
Gigabyte Technology

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1.0

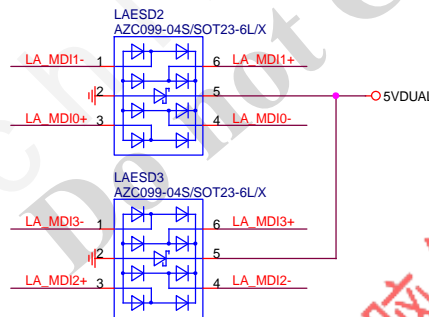


SRCCLK--&gt;50歐姆:[18/4/10/4/18]

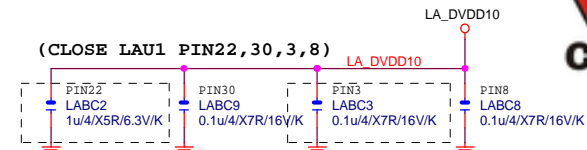


LA\_ML--&gt;80歐姆:[15/5/5/5/15]

## MDI ESD預留 \*



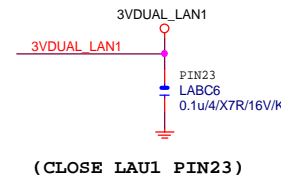
## LAN POWER



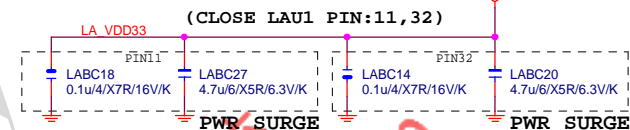
LABC2:1U CLOSE PIN22[REALTEK REQ]

## LAN POWER

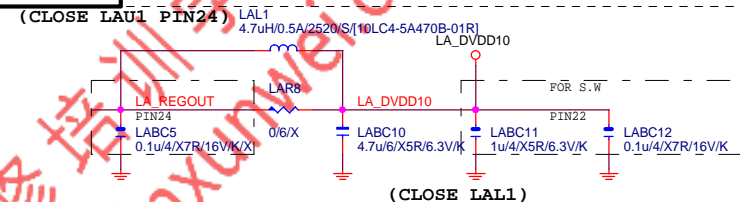
note: lan power連接及電流



## LAN POWER

LABC18,27:CLOSE PIN11[REALTEK SURGE]  
LABC14,20:CLOSE PIN32[REALTEK SURGE]

## LAN POWER

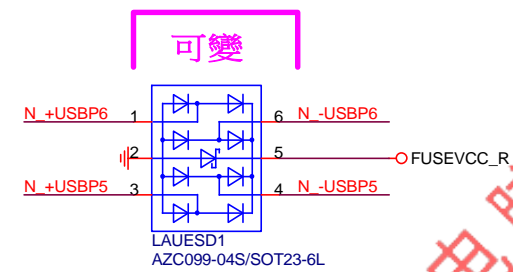
NOTE:  
RT8106E:PIN3,11,22,24-->NC  
LABC2LABC3,LABC5,LABC18,LABC27-->N/A

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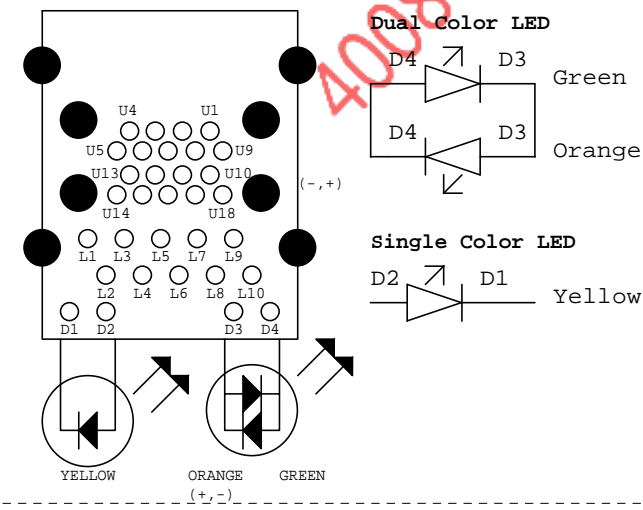
Title		Realtek RTL8111GUS	
Size	Document Number	GA-B150M-Gaming	
Custom			Rev 1.0
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# USB\_LAN CONNECTOR R1.06

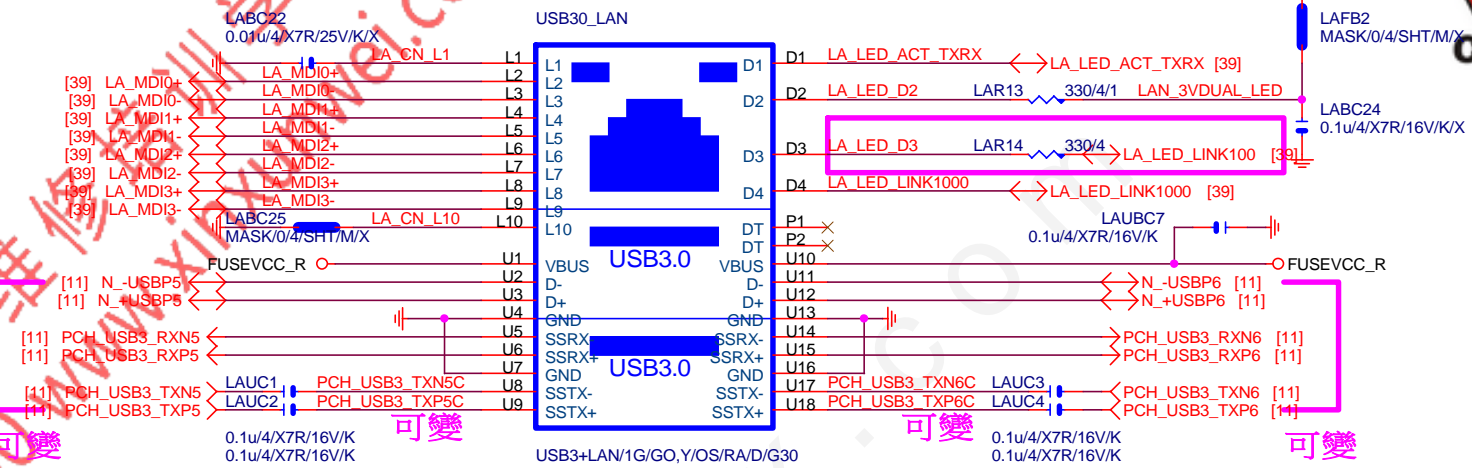
## RMA ESD PROTECT note:可變更USB NAME



## USB30 LAN LAYOUT示意圖

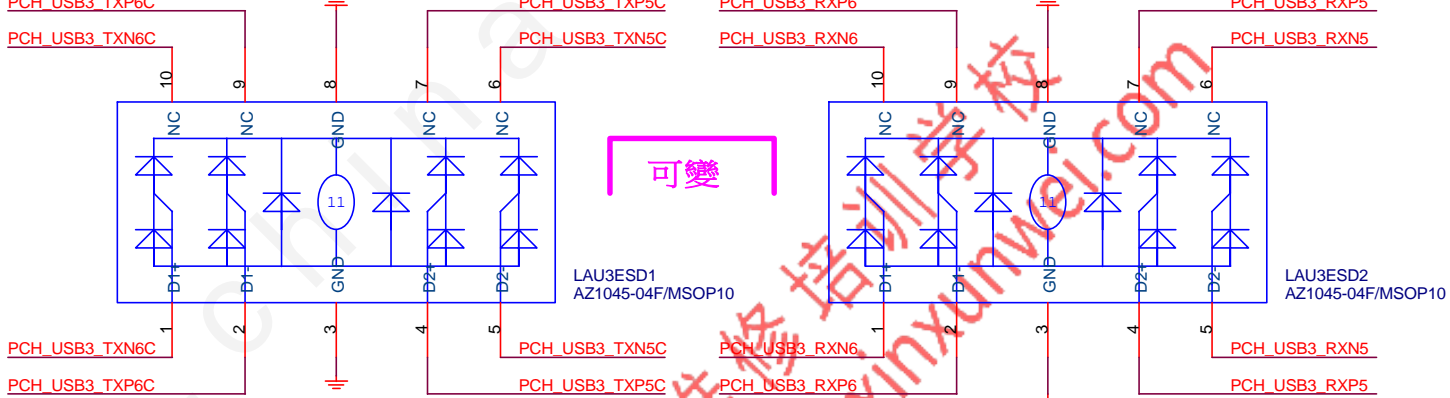


# USB\_LAN CONNECTOR [RTL8111G]

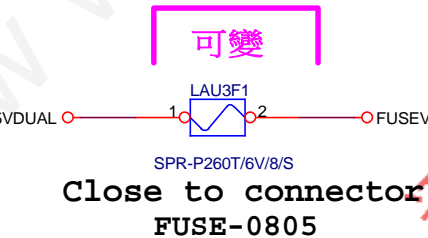


LA\_MDI-->100歐姆:[20/4/8/4/20]

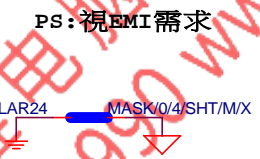
## RMA ESD PROTECT note:可變更USB NAME



## USB POWER note:可變更FUSE



## EMI SHORT PAD PS:視EMI需求

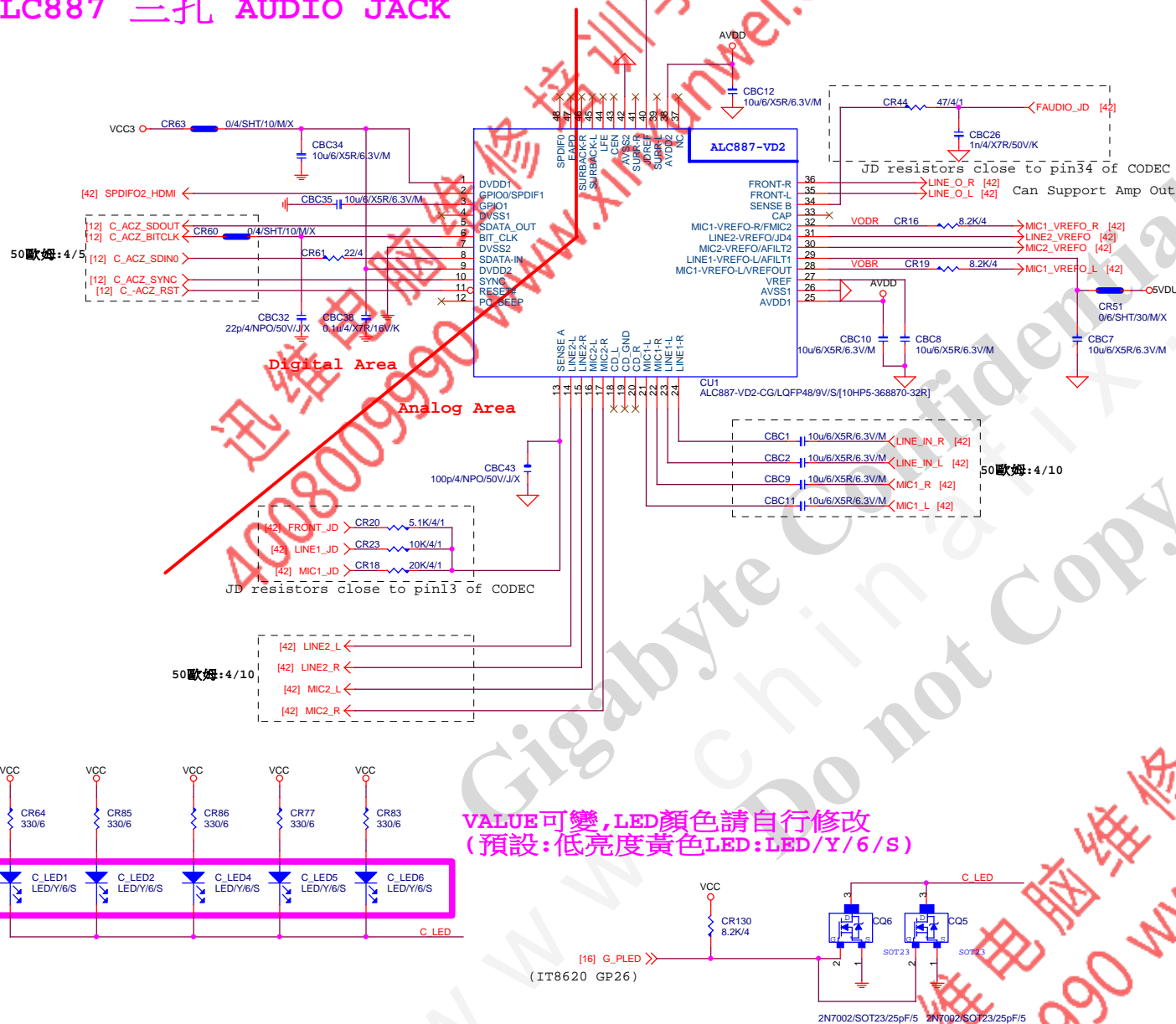


## LAN POWER note:lan power連接及電流



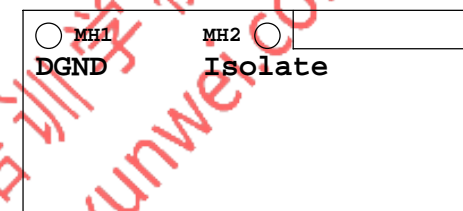
Gigabyte Technology		
LAN CONNECTOR-RTL8111G		
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## ALC887 三孔 AUDIO JACK



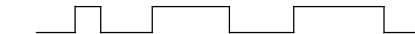
## LAYOUT注意:螺絲孔下GND方式

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



LAYOUT注意:要加

## GND切割線



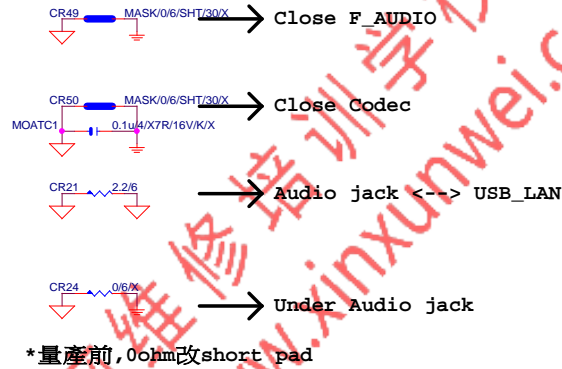
## 音效區域印刷



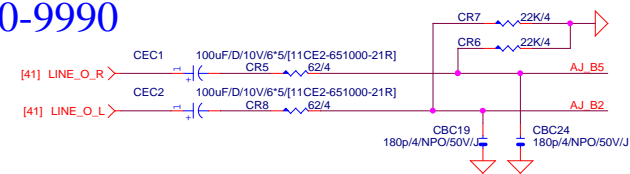
BOM OPTION : 1. Chemicon音效電容  
2. 金屬外罩 Reserve (上件與否,依照各Model spec)  
3. LED Reserve (上件與否和LED顏色,依照各Model spec)

Rev 0.5

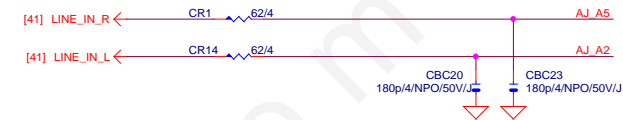
www.xinxunwei.com 400-800-9990



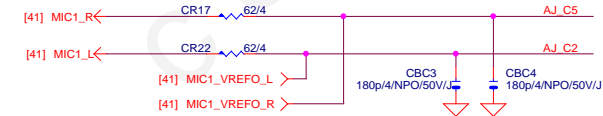
LINE-OUT



LINE-IN



MIC-IN

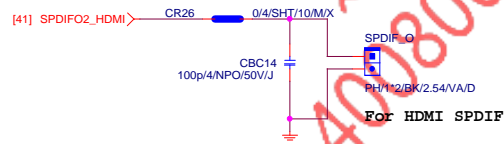


SURROUND

CEN/LFE

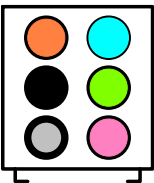
SURRBACK

SPDIF\_OUT



SPDIF\_IN

AZALIA JACK

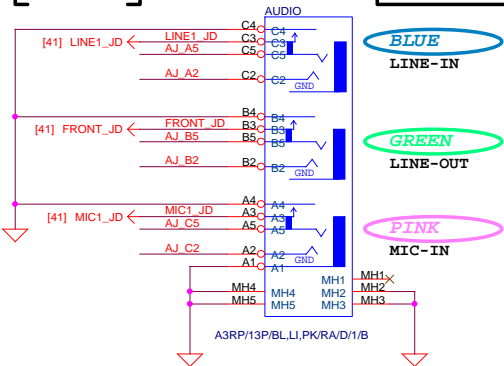


AZALIA JACK

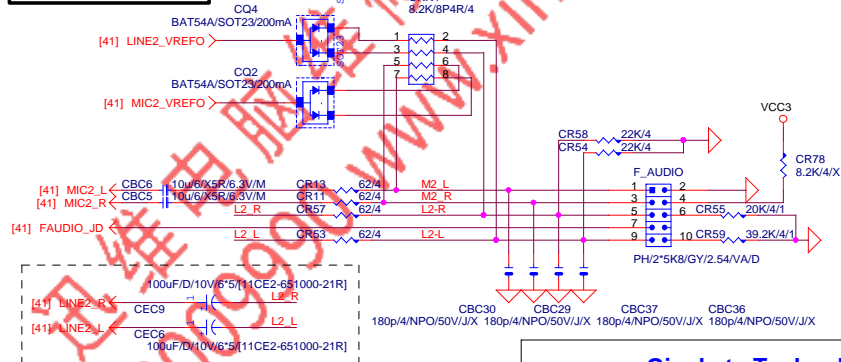
BLUE  
LINE-IN

GREEN  
LINE-OUT

PINK  
MIC-IN



AZALIA FRONT PANEL



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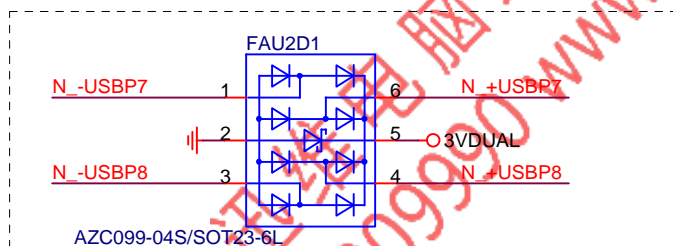
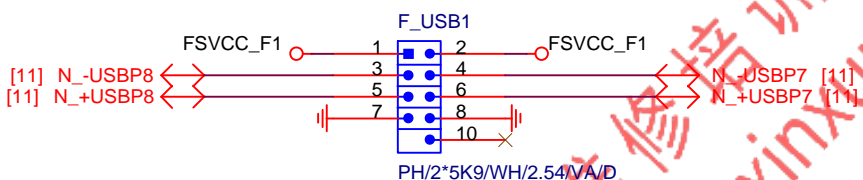
AUDIO JACK

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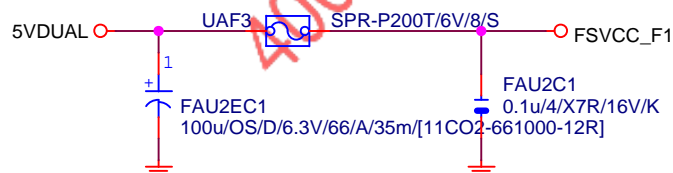
## NET 可變

## FUSB2X5-S

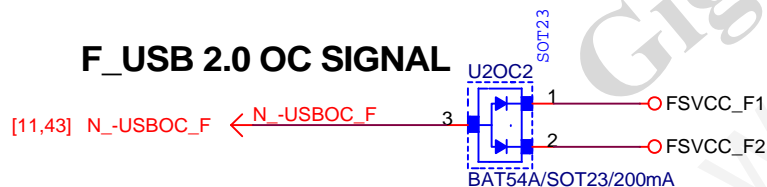


## Close to connector

**FUSE 2 Port 1 Fuse 2A**

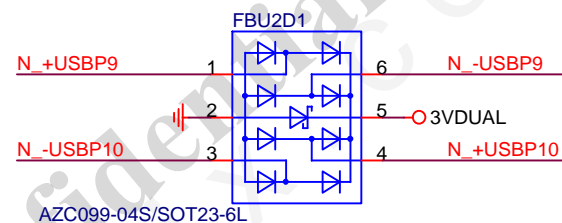
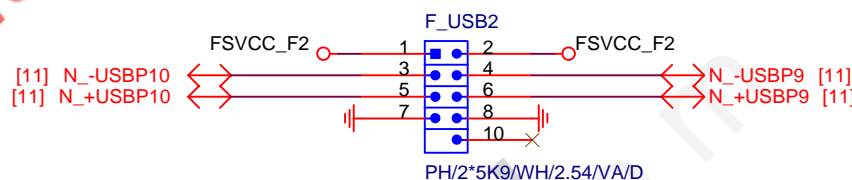


## F USB 2.0 OC SIGNAL



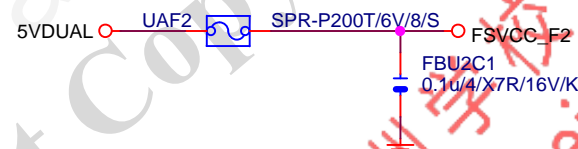
NET 可變

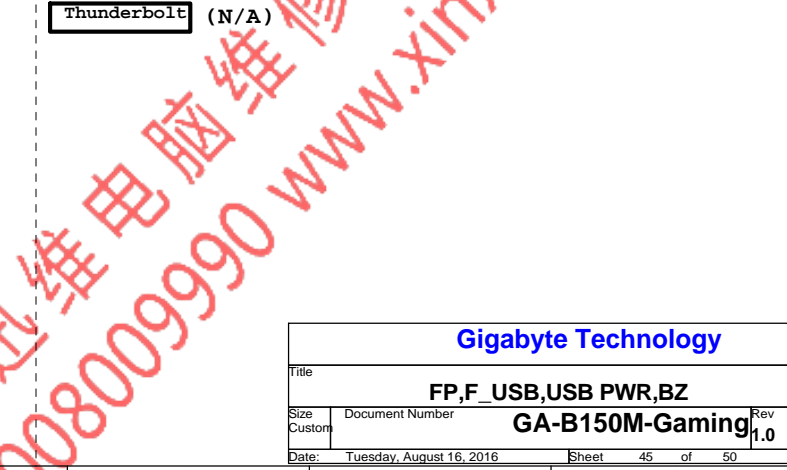
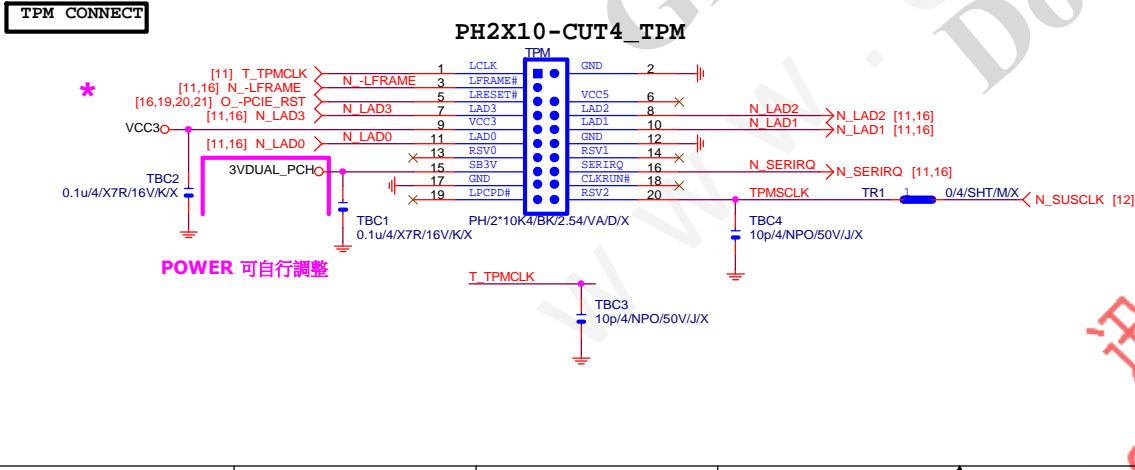
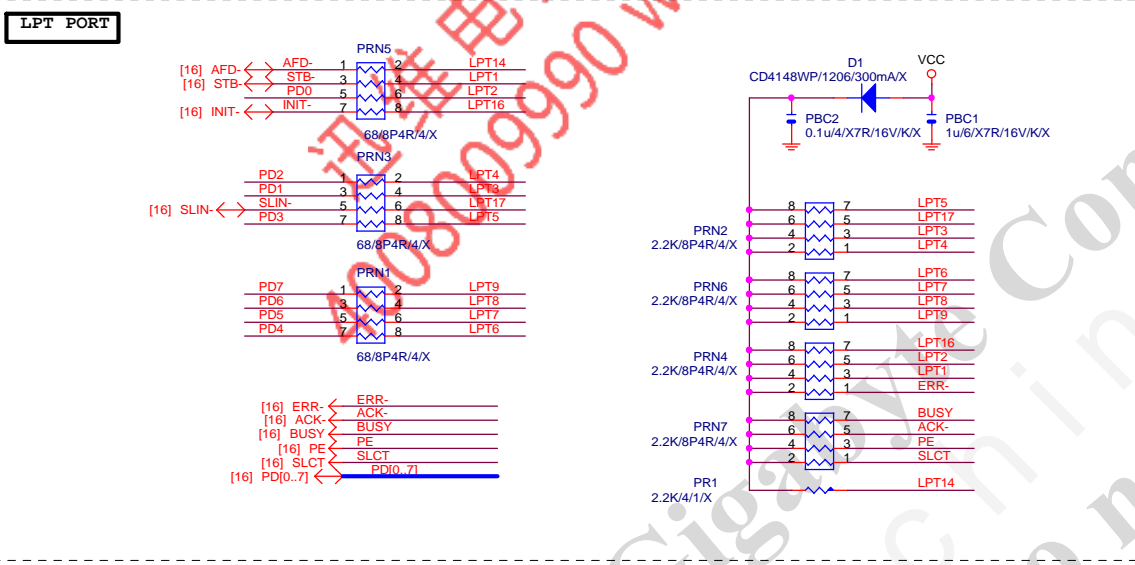
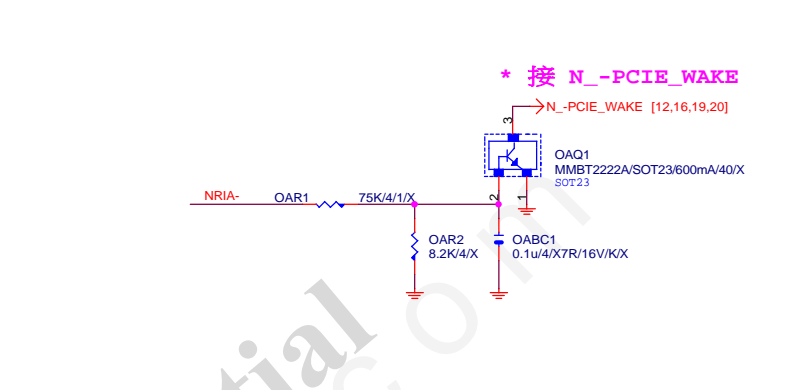
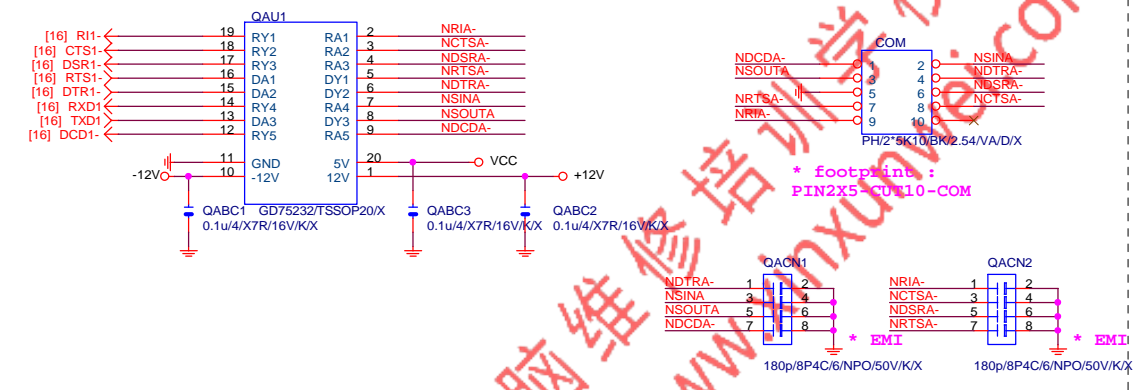
**FUSB2X5-S**

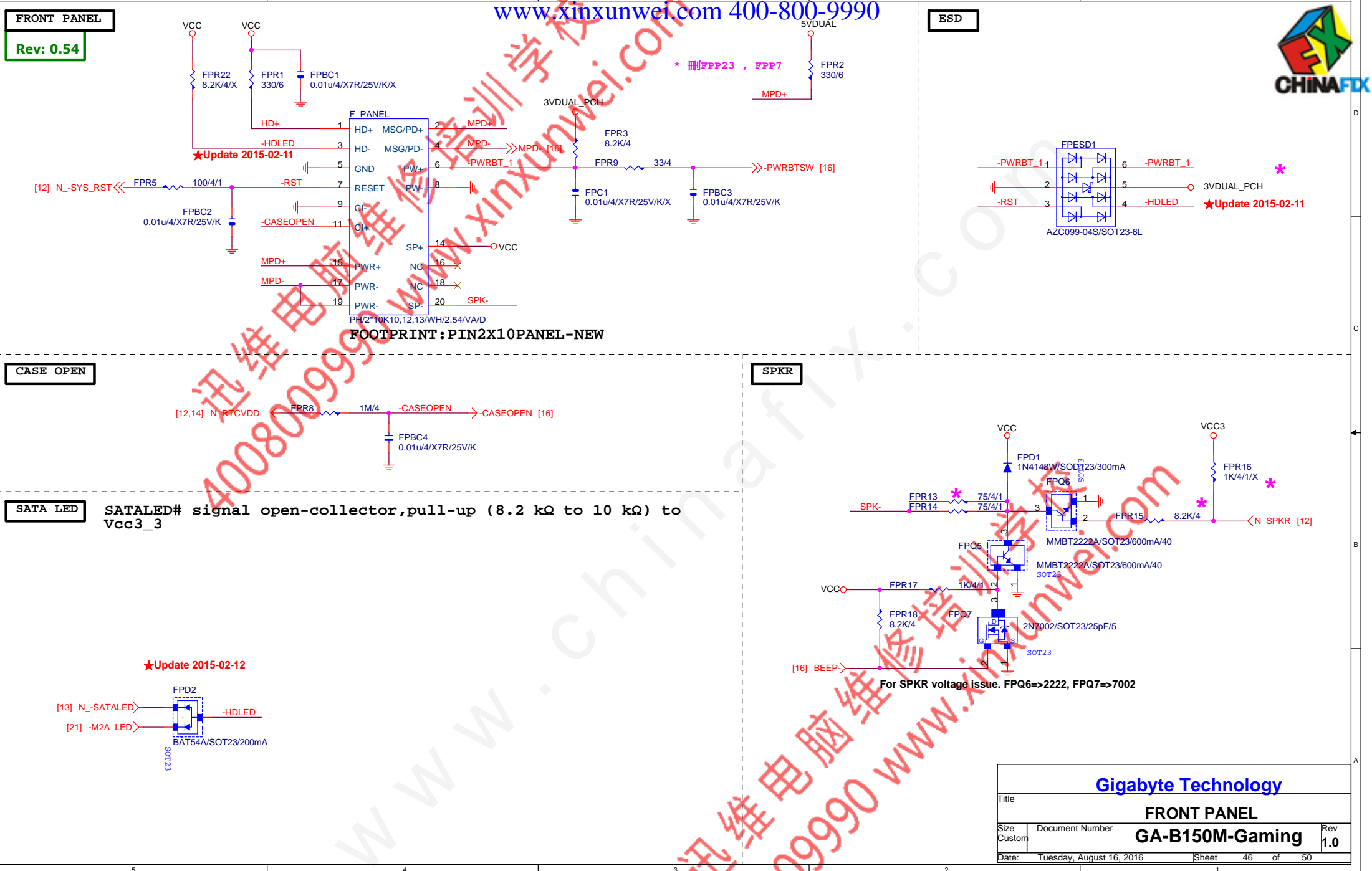


## Close to connector

**FUSE 2 Port 1 Fuse 2A**

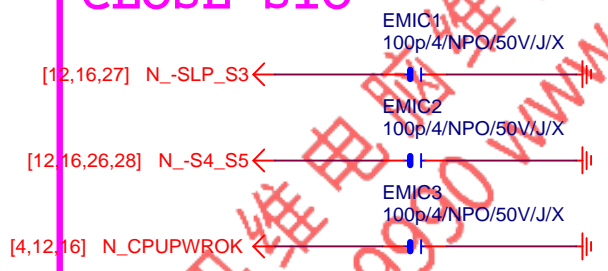




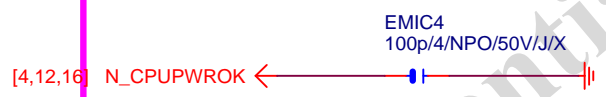




CLOSE SIO



CLOSE PCH

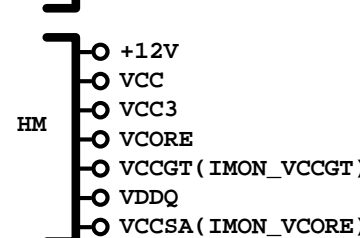
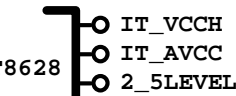
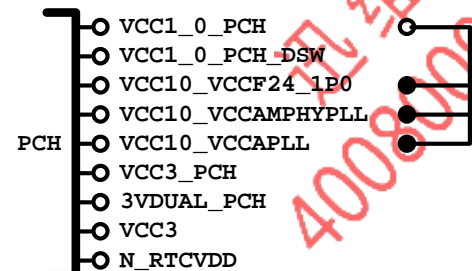
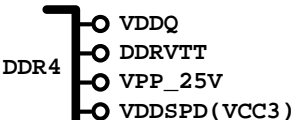
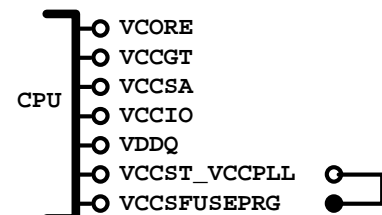


Title		
EM/ESD		
Size A	Document Number	Rev
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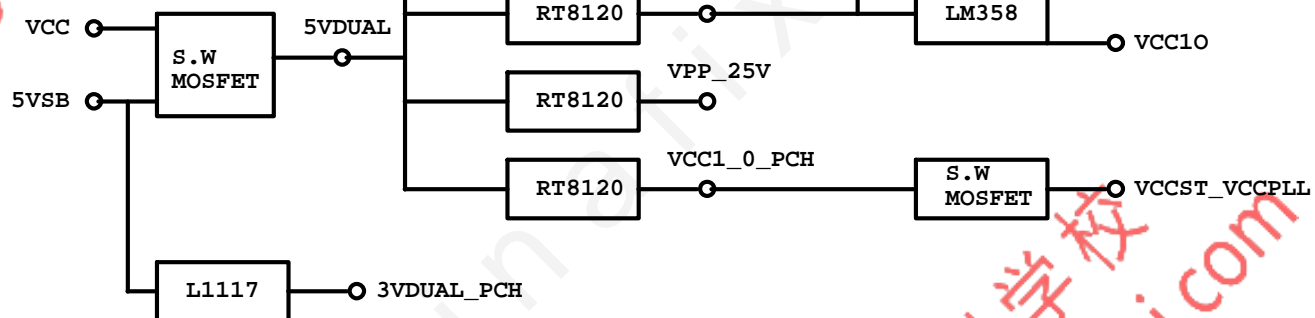
# POWER BLOCK MAP

## VCORE/VCCGT

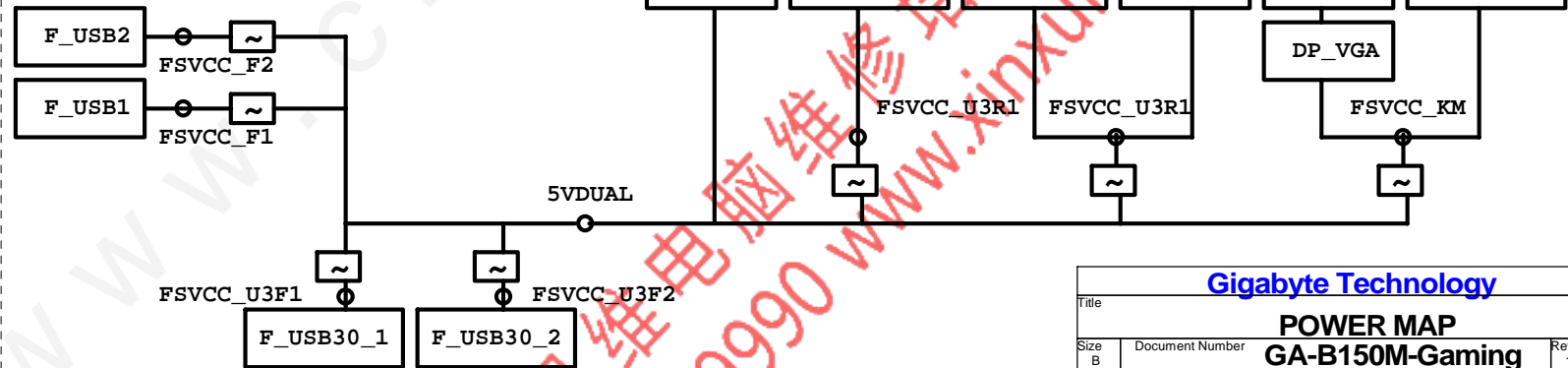
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## POWER



## 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

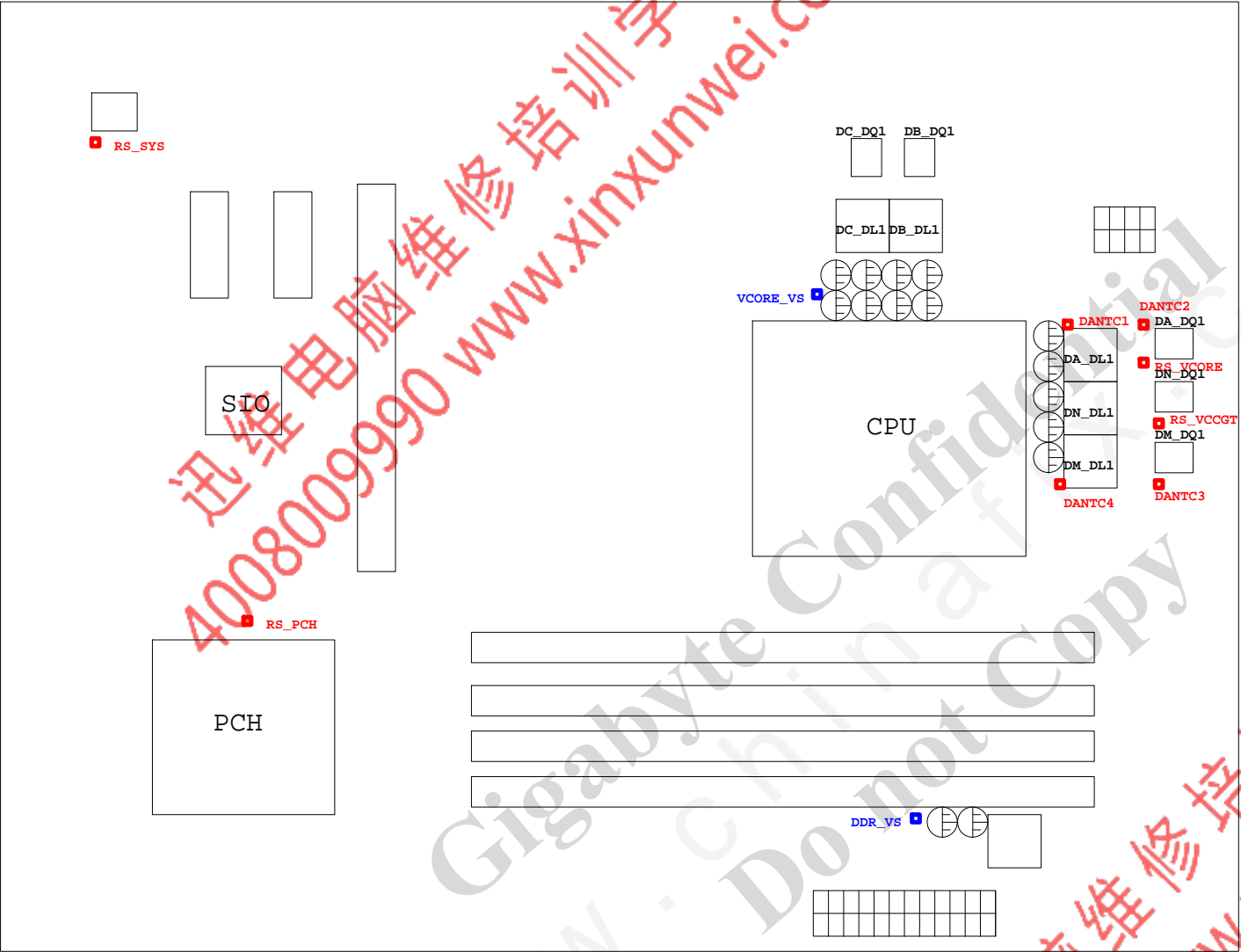
	料號	Capture Value	SIZE	Footprint
DIP	10LFB-15470A-01R	47/4030/15A/S	4*3	BEADC8B-BPH_SMD

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™			
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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