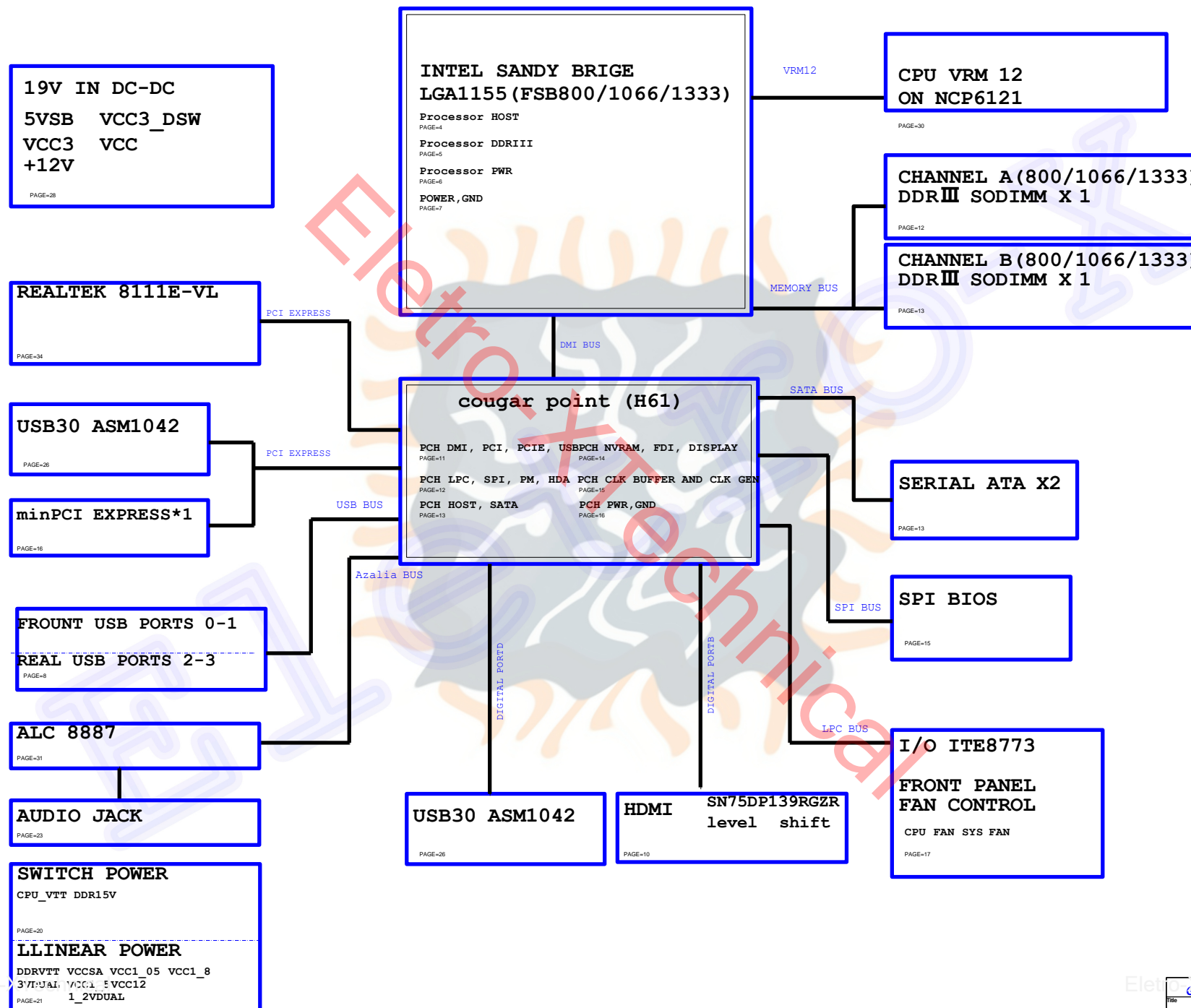
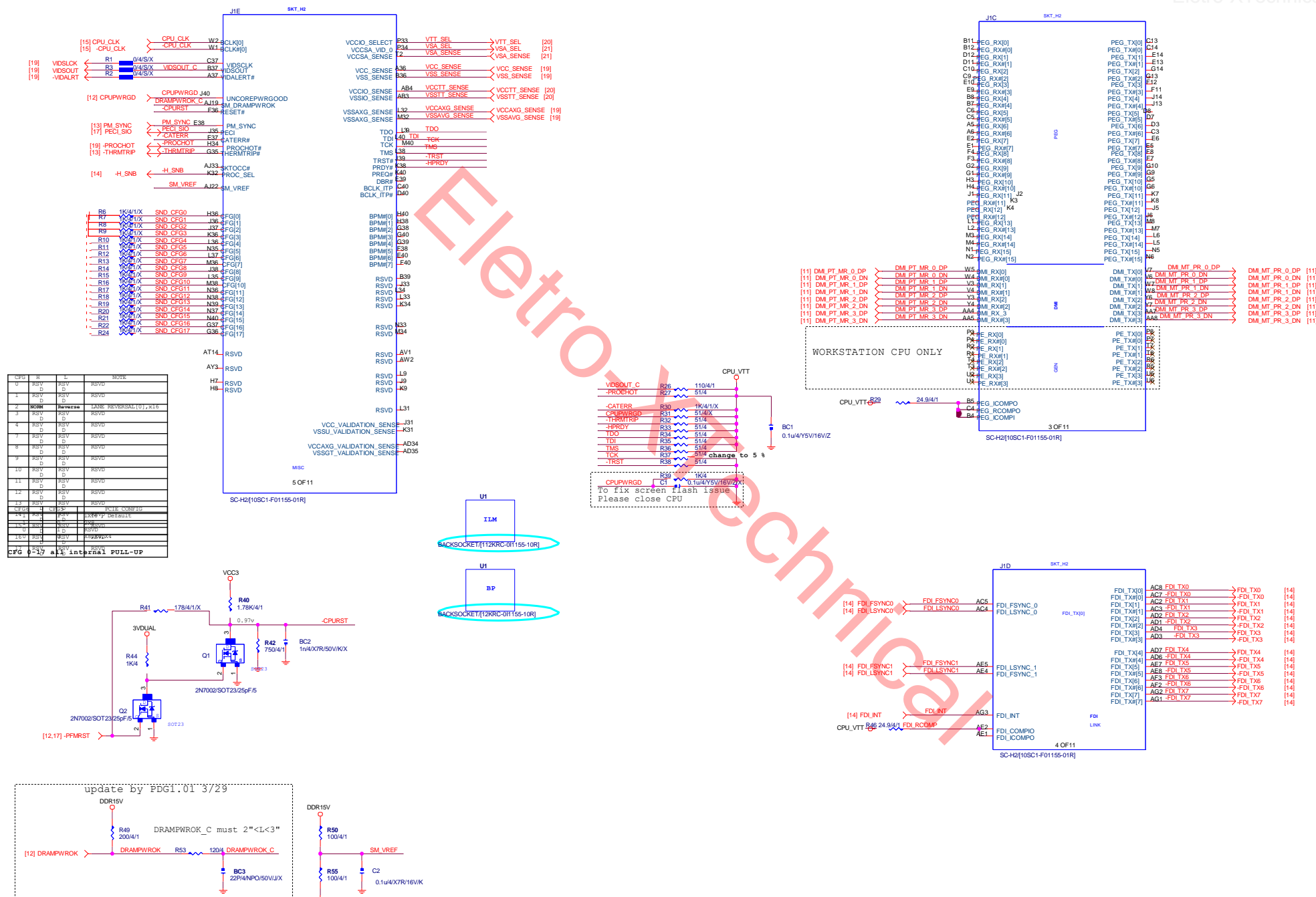


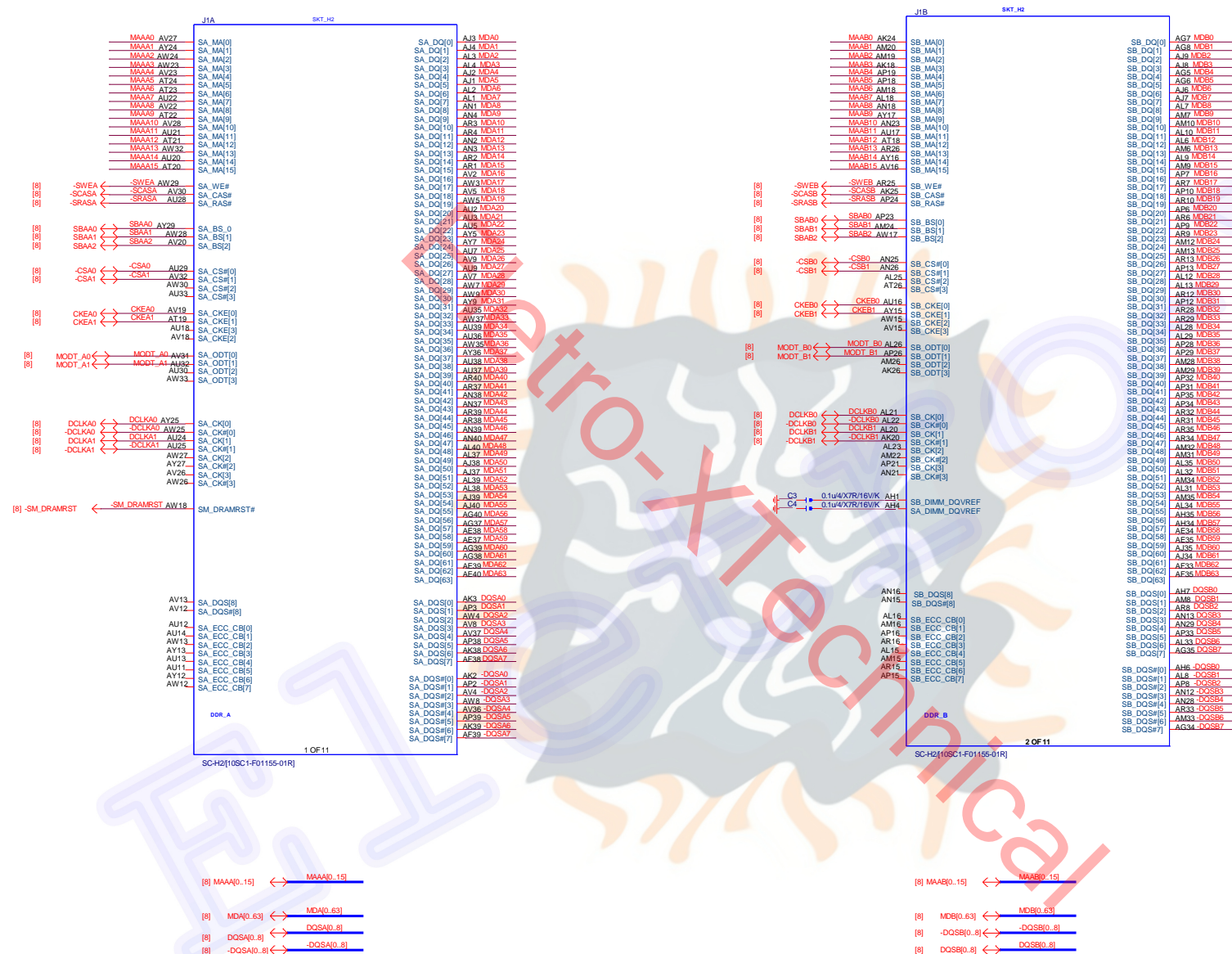
[illegible][illegible]

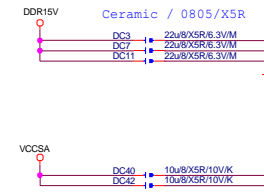
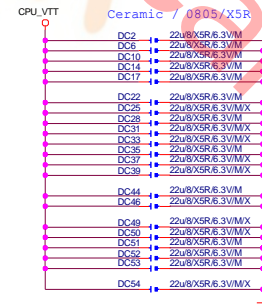
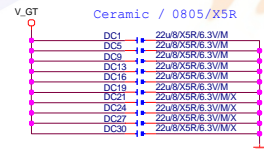
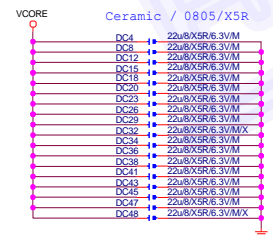
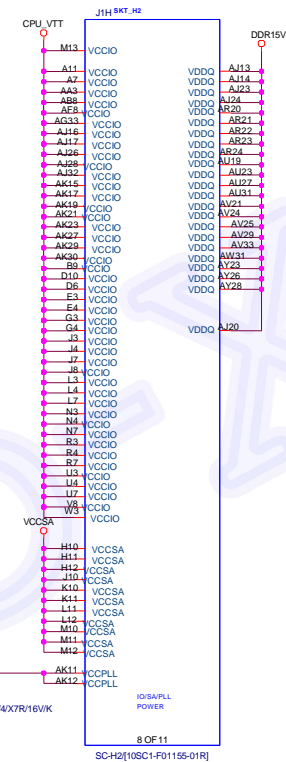
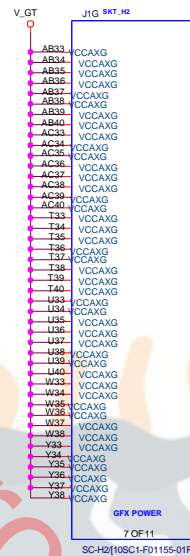
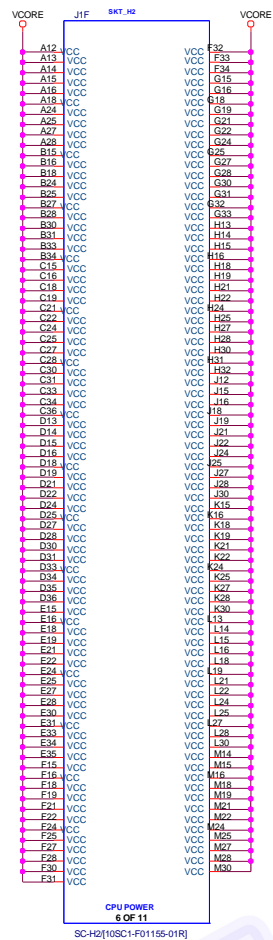
# BLOCK DIAGRAM

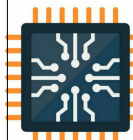
Eletro-XTechnical



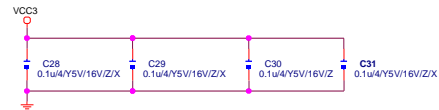








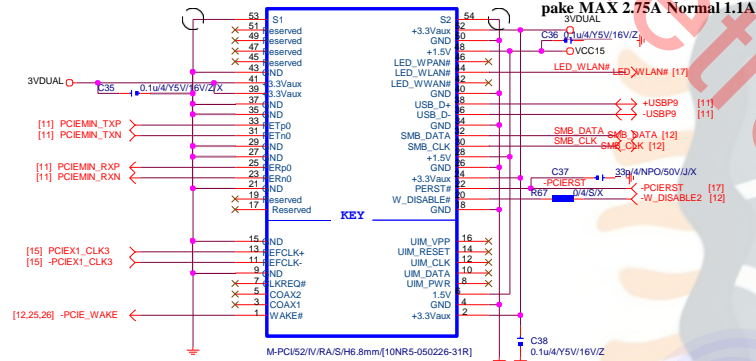




## For WLAN slot

MINI PCIE rev1.2 pin define

pake MAX 2.75A Normal 1.1A



## Mini Card1 STAND OFF PIN

FIX FOR DELL 0812

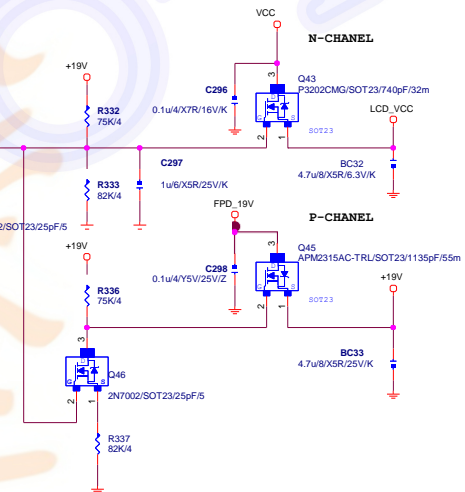
CN10\_1

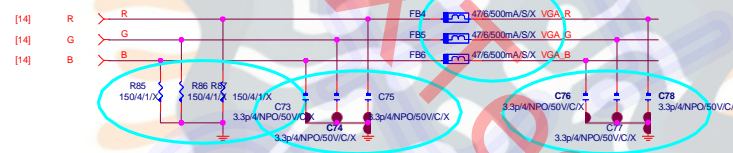
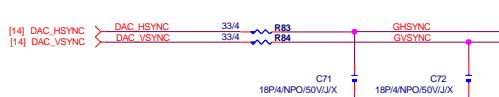
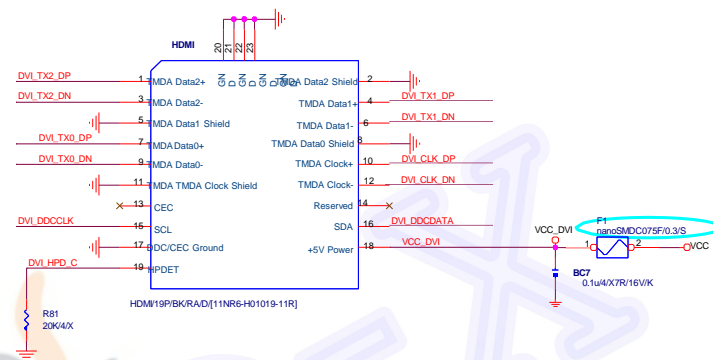
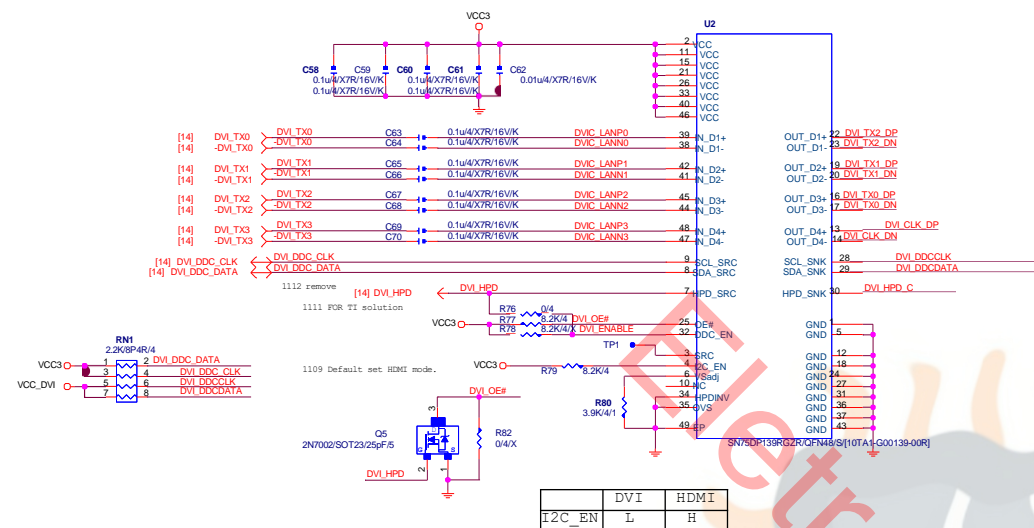
CN10\_2

STAND OFF H4.4mm/[10KS2-040031-01R]

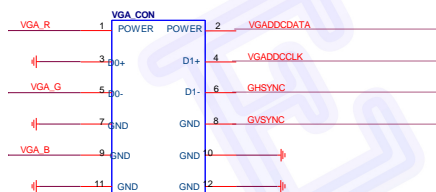
STAND OFF H4.4mm/[10KS2-040031-01RJ/X]

PANEL\_EN  
HIGH => EDP\_VCC,FDP\_19 CLOSE  
LOW => EDP\_VCC,FDP\_19 OPEN

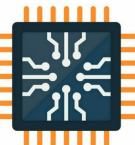
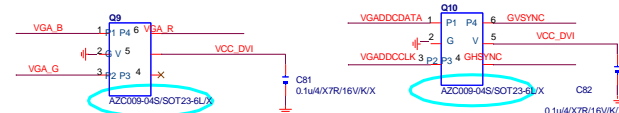
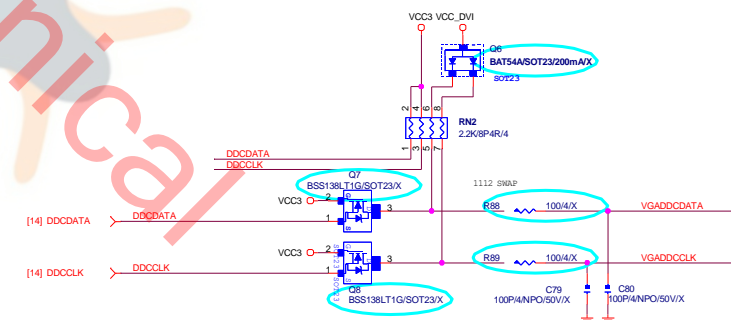




## FOR output

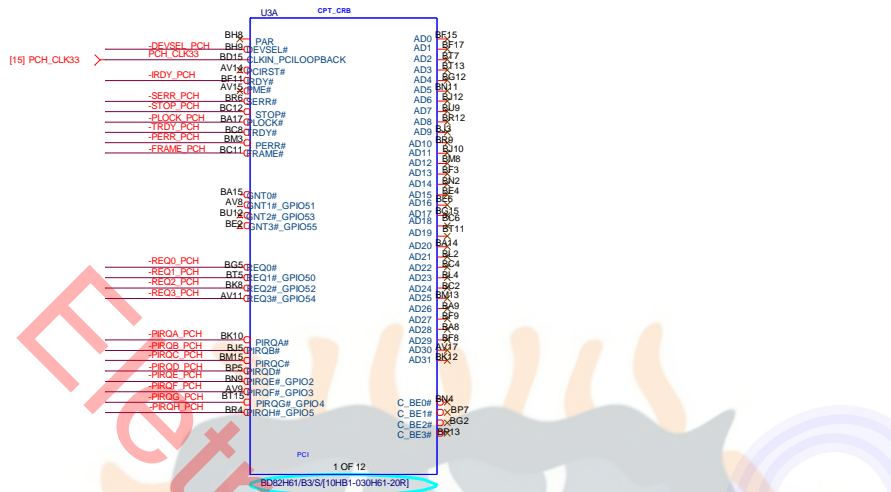
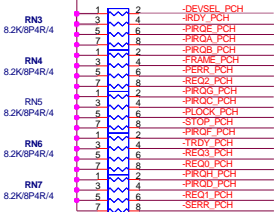


JW26WH2.0VADIX



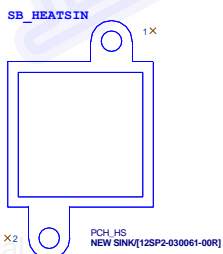
VCC3

Internal weak pull high  
and disable after PCIRST# de-assert



PIN	MAPPING
OC0F	POR0, POR1
OC1F	POR2, POR3
OC2F	POR4, POR5
OC3F	POR6, POR7
OC4F	POR8, POR9
OC5F	POR10, POR11
OC6F	POR12, POR13
OC7F	NOT USE

Boot	GNT1	GNT0
LPC	0	0
PCI	0	1
SPI	1	1



FOR M/B SIDE USB

FOR CABLE SIDE USB

FOR MINI PCIE

FOR WEB CAM



PIN	CLR_CMOSHW
1~2	DEFAULT
2~3	CLR_CMOS

CLR\_CMOSHW  
1 - RTCRST  
2 - PH1\*2BK/2.5V/VAD

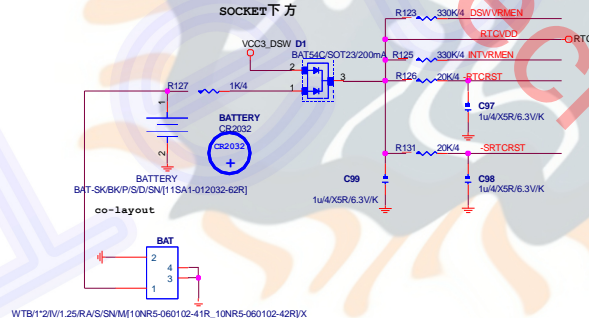
VCC3\_DSW  
R98 8.2K/4X  
HDA\_SDOOUT

C91  
15p/4NPO/50V/J  
32.768K/12.5p/5p/TF26/35K/D

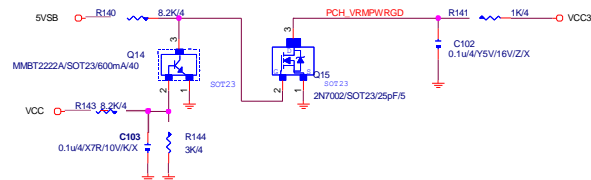
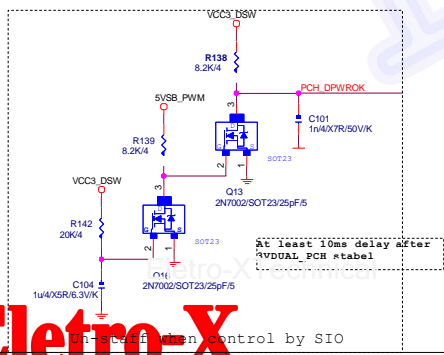
C94  
100p/4NPO/50V/J  
-RSMRST

RN12  
[23] ACZ\_SYNC  
[23] ACZ\_BITCLK  
[23] ACZ\_RST  
[23] ACZ\_SDOOUT  
338P4R/4

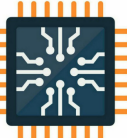
RB 不可放在 BATTERY  
SOCKET 下方



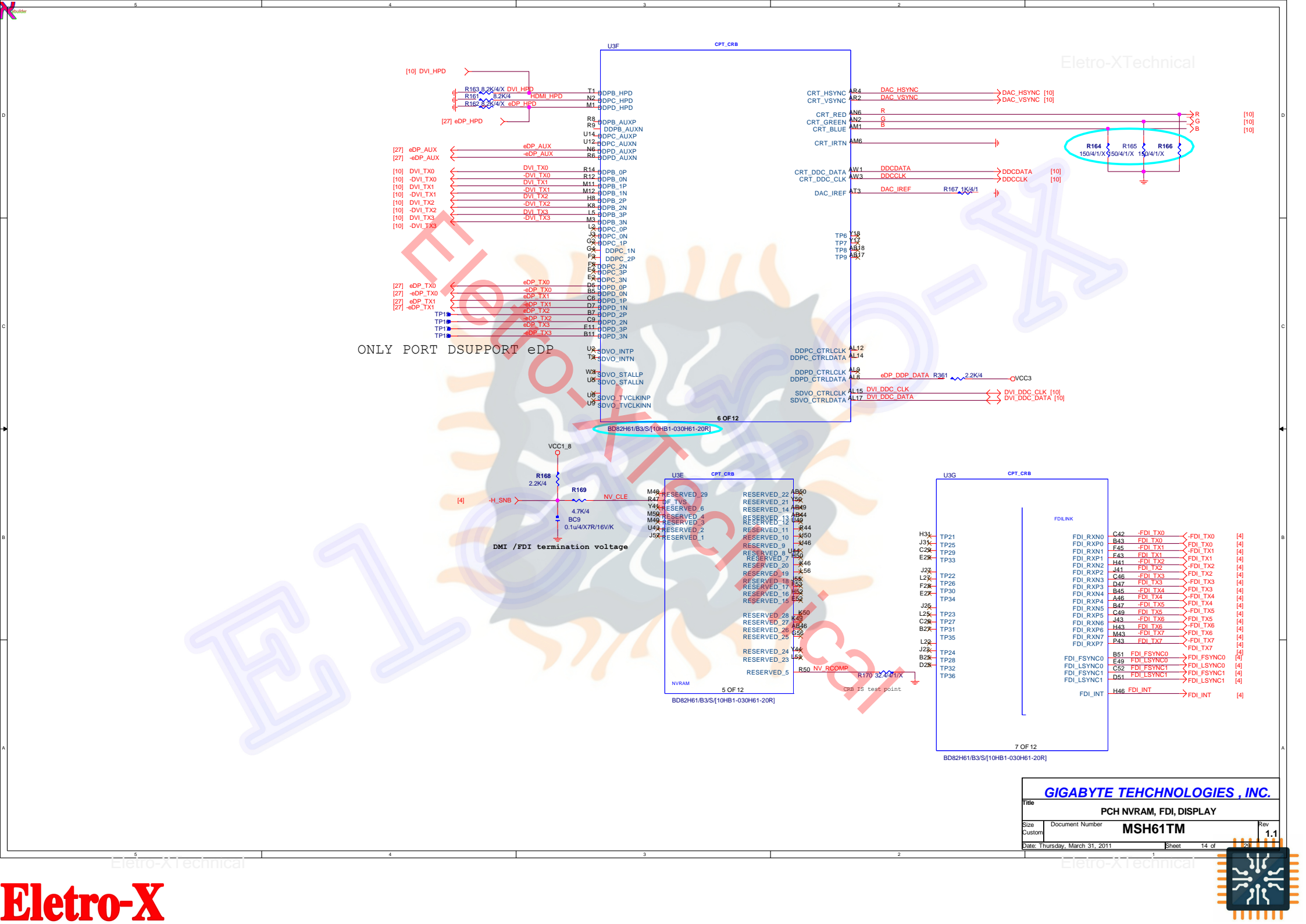
WTB1\*2I/V1.25RA/S/NNM(10NR5-060102-41R\_10NR5-060102-42R)X



GIGABYTE TECHNOLOGIES, INC.			
PCH LPC, SPI, PM, HDA			
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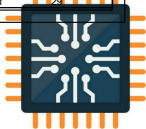


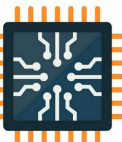
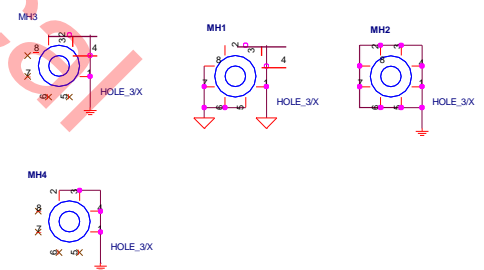
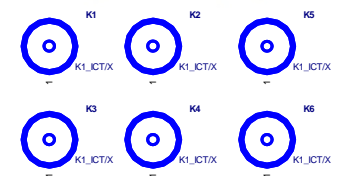
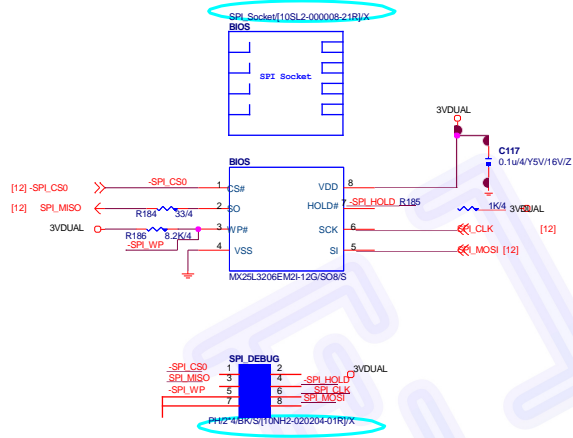
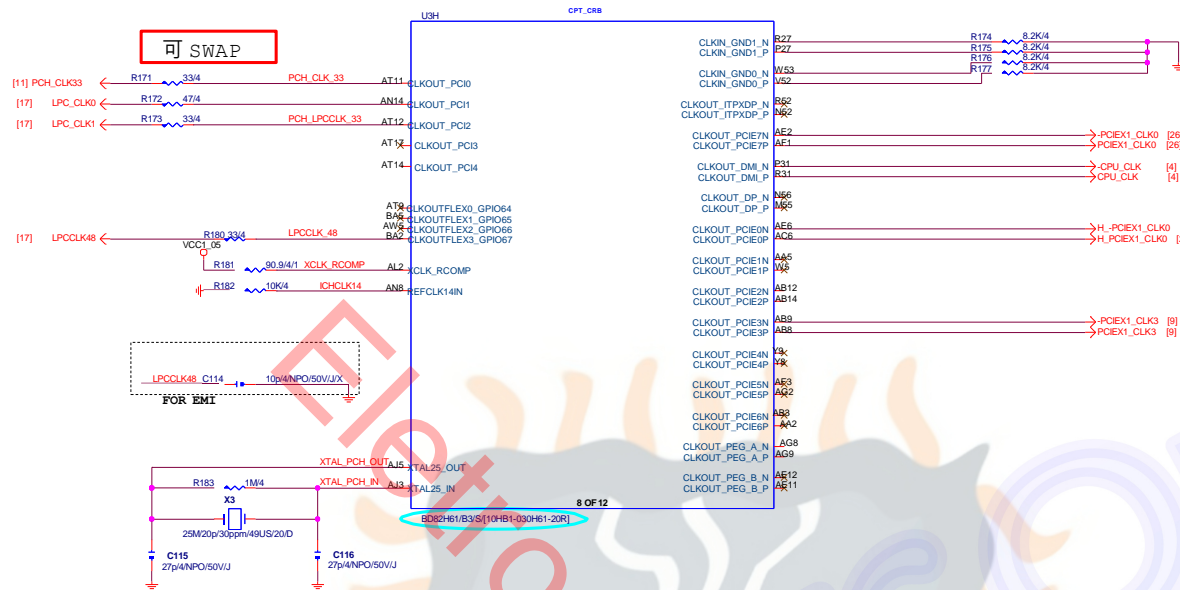
Eletro-XTechnical

GIGABYTE TEHCHNOLOGIES , INC.

Title		PCH NVRAM, FDI, DISPLAY	
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Rev 1.1



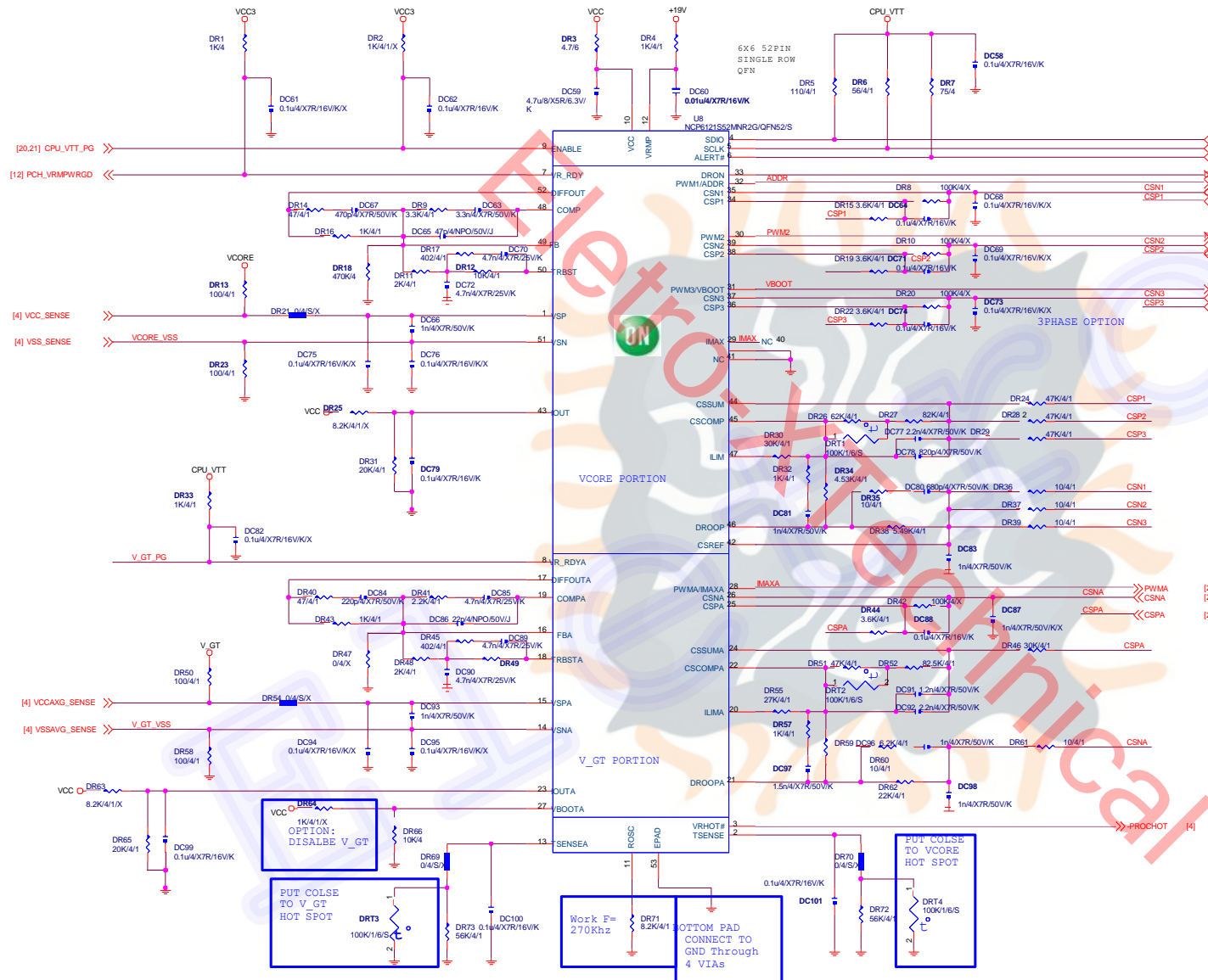






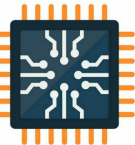
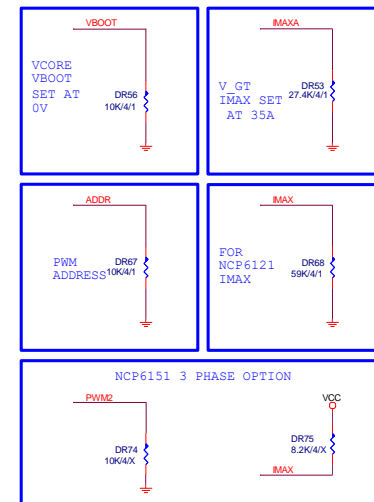


# Intel SugarBay VR12 POWER CKT - 4+1 PHASE



PWM ADDRESS		
RESISTOR VALUE	SVID ADDRESS FOR VCORE RAIL	SVID ADDRESS FOR V_GT RAIL
10K	0000	0001
25K	0010	0011
45K	0100	0101
70K	0110	0111
95K	1000	1001
125K	1010	1011
165K	1100	1101

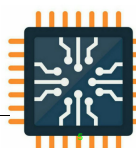
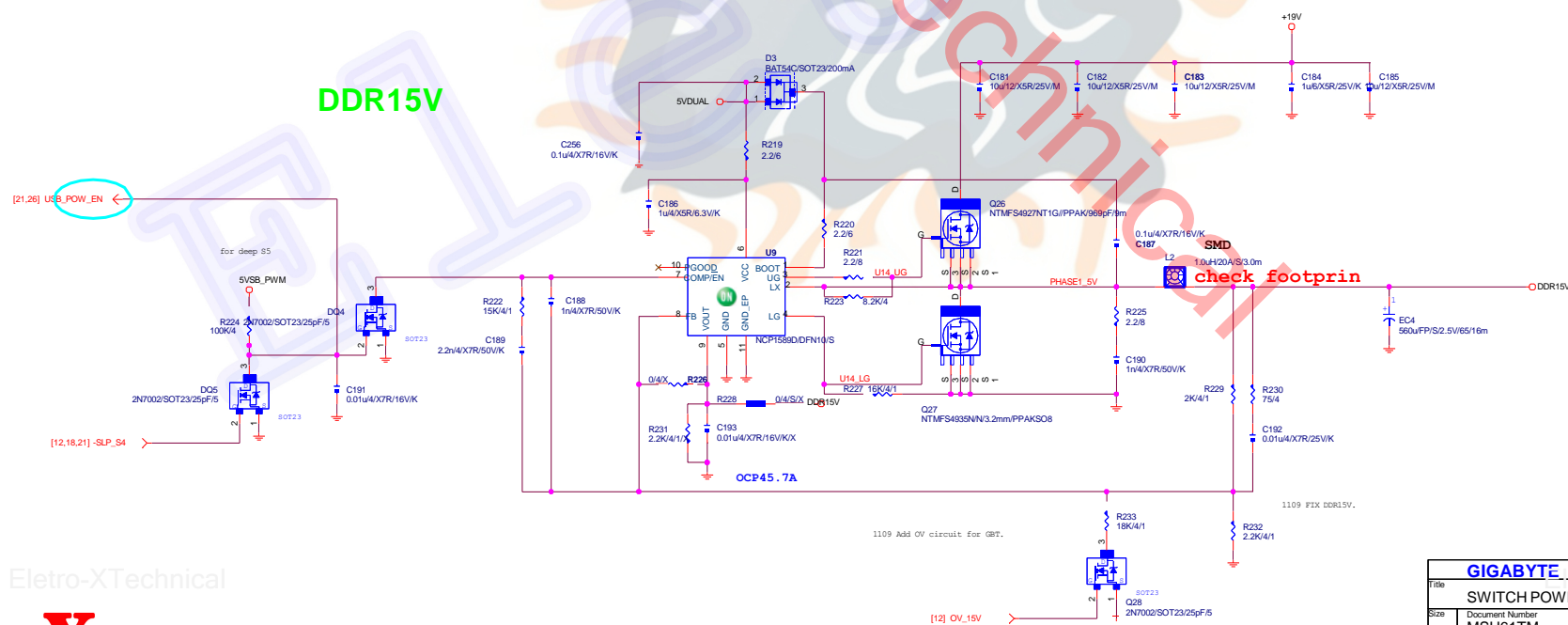
BOOT VOLTAGE	
RESISTOR VALUE	BOOT VOLTAGE
10K	0V
25K	0.9V
45K	1V
70K	1.1V
95K	1.2V
125K	1.35V
165K	1.5V



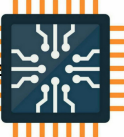
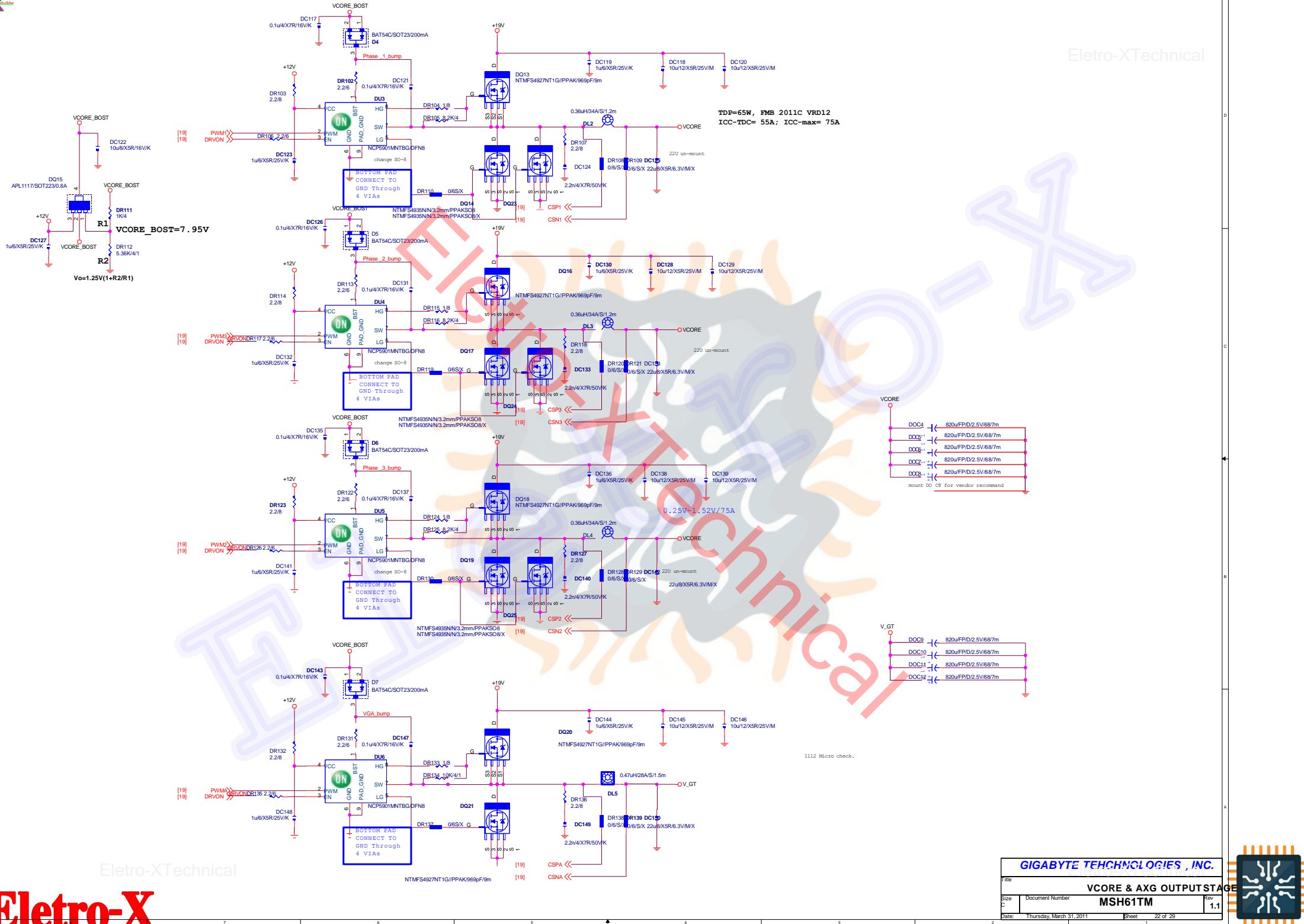


	VTT_SE
HI	1.05V
LO	1.0V

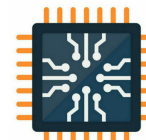
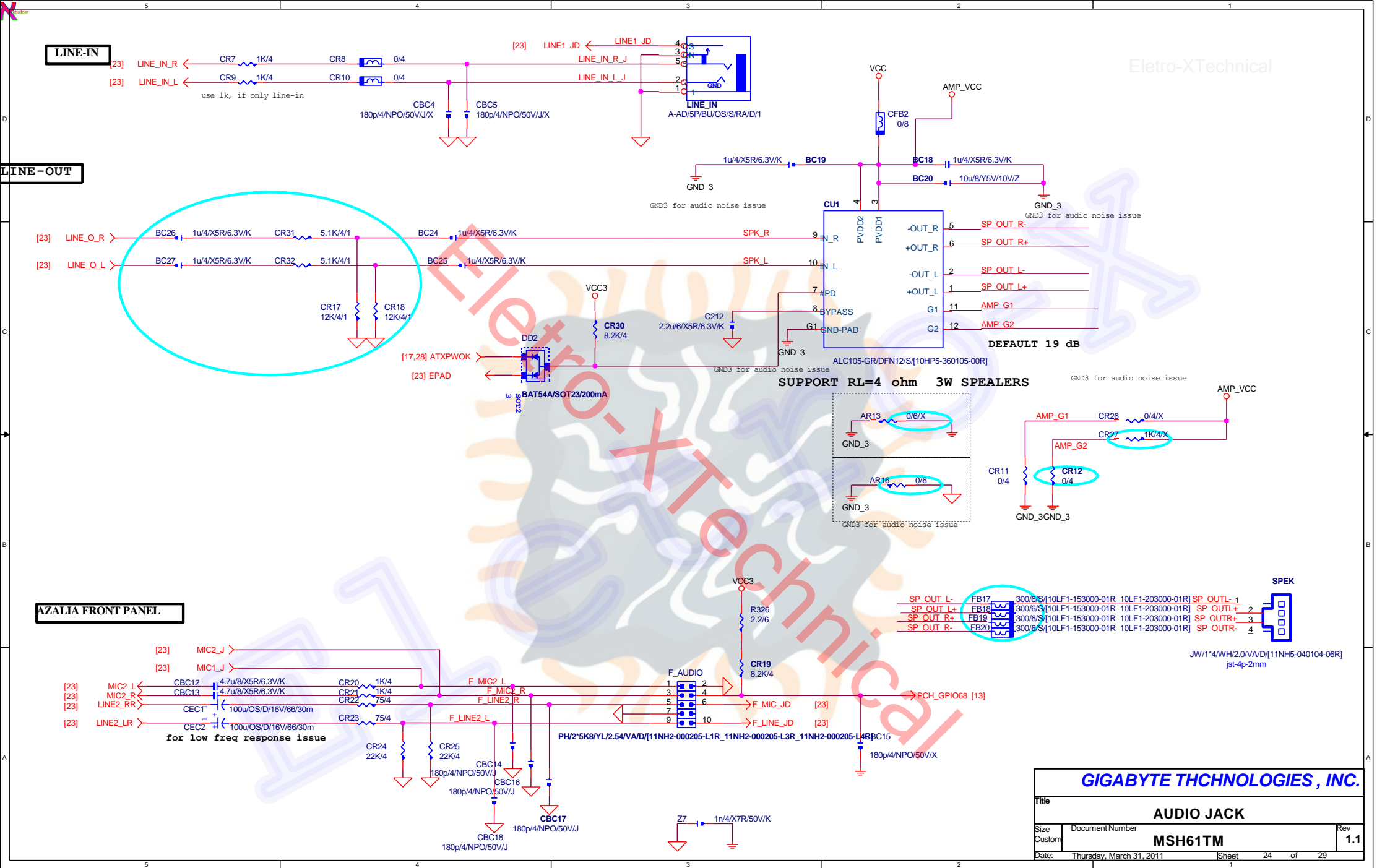
## DDR15V



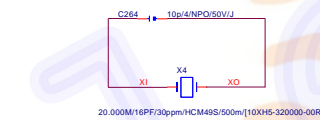
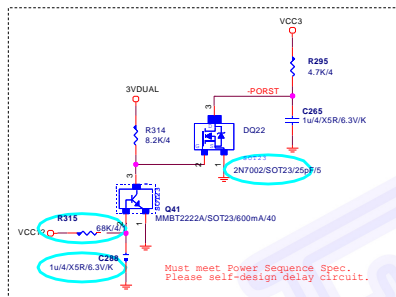
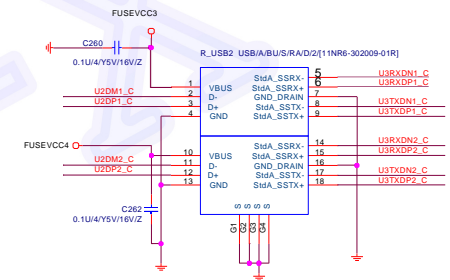
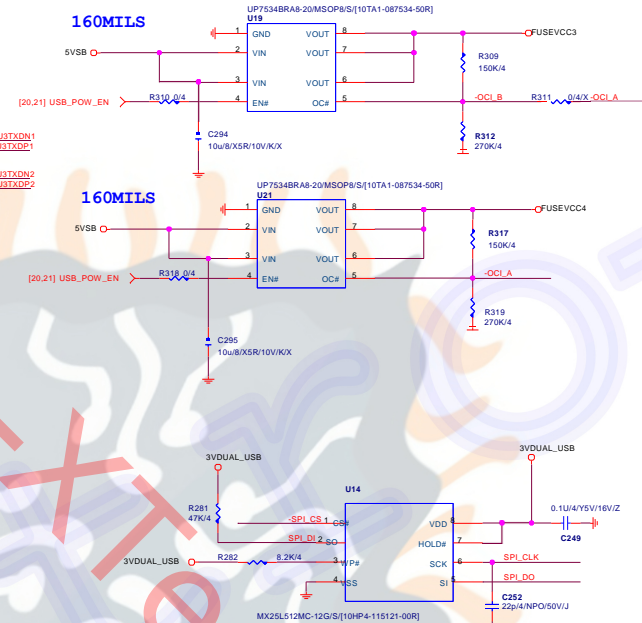
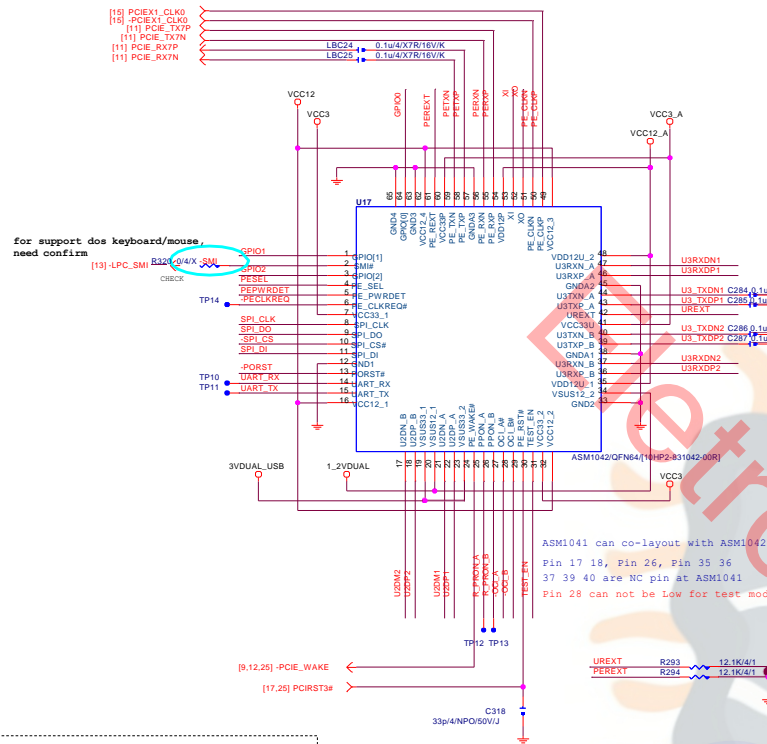




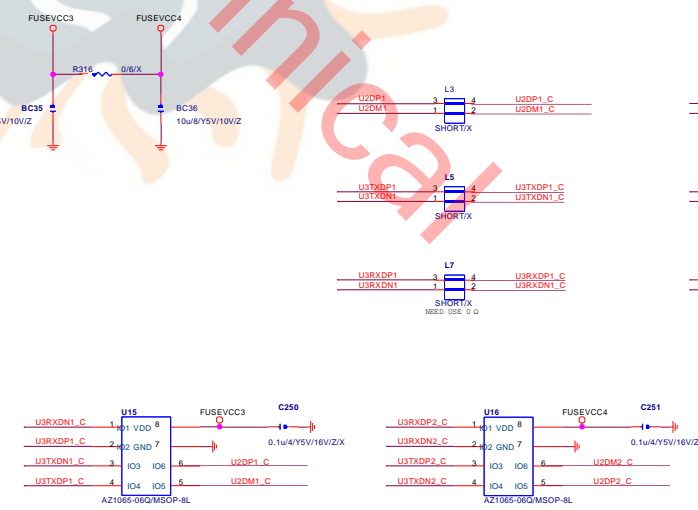
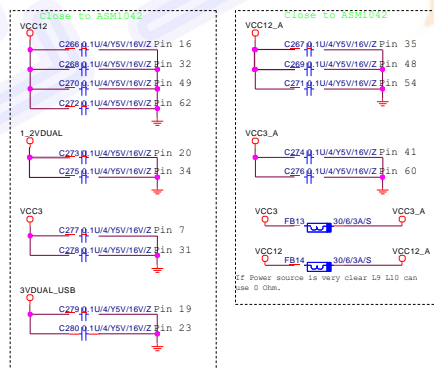
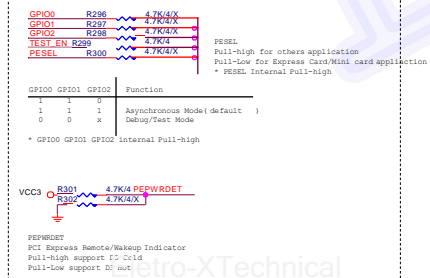








## H/W Strapping

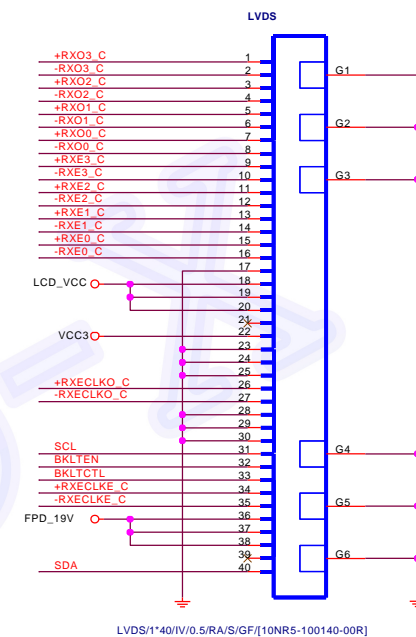
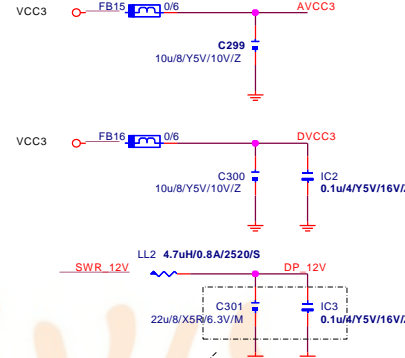
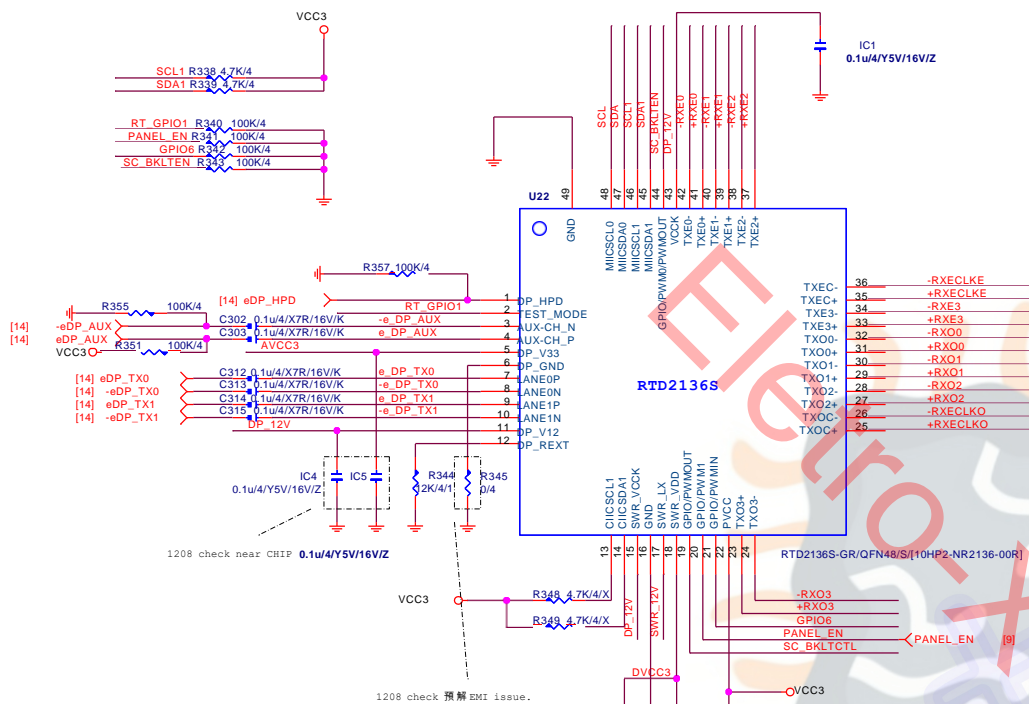


# RTD2136

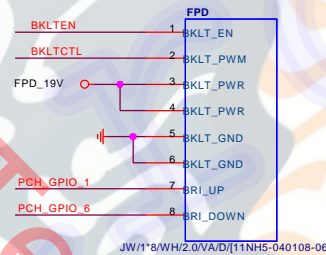
## POWER

## LVDS Connector

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## Converter Connector



**Choose PCH GPIO into Scalar or Converter.**

R12.R15=> 0 ohm (PCH GPIO into Scalar)  
R14.R16=> 0 ohm (PCH GPIO into converter)

[13,17] PCH\_GPIO1 -> PCH\_GPIO1 R350 -> 0/4 RT\_GPIO1  
R352 -> 0/4 PCH\_GPIO\_1

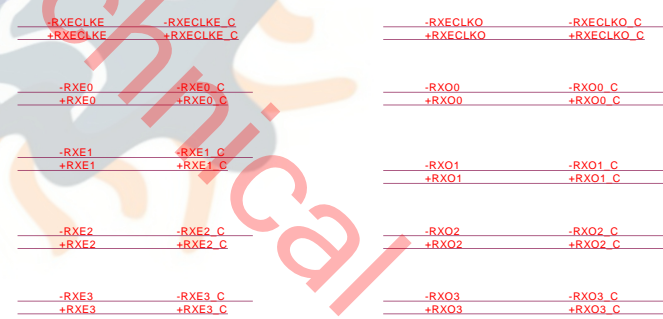
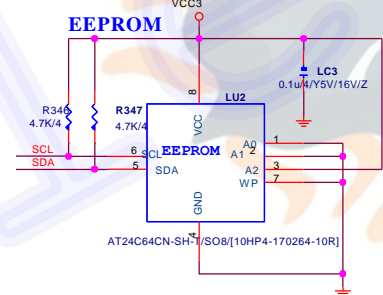
[13,17] PCH\_GPIO6 -> PCH\_GPIO6 R353 -> 0/4 GPIO6  
R354 -> 0/4 PCH\_GPIO\_6

**Choose BKL Control.**

R18.R20=> 0 ohm (M/B eDP control)  
R19.R21=> 0 ohm (Scalar control)

[16] eDP\_BKLTEN -> eDP\_BKLTEN R356 -> 0/4X BKLCTEN  
SC\_BKLTEN R358 -> 0/4

[16] eDP\_BKLTCTL -> eDP\_BKLTCTL R359 -> 0/4X BKLCTCTL  
SC\_BKLTCTL R360 -> 0/4

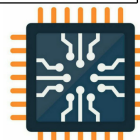


GIGA-BYTE TECHNOLOGY CO., LTD.			
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Eletro-X

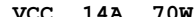


## AD1 9V



YCC CYCC3

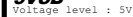
VCC 14A 70W



## SATA POWER

**5VSR**

Voltage level : 5V

**VCG-3 DSW**

Voltage Level : 3.3

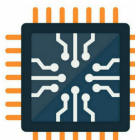


ATY BROWER GOOD



## +12V

MAX=3A



**Model Name: MSH61TM**

SHEET

TITLE

01	COVER SHEET
02	BLOCK DIAGRAM
03	POWER SEQUENCE
04	Processor HOST
05	Processor DDRIII
06	Processor PWR
07	Processor GND
08	DDRIII CHANNEL A & B
09	MINI PCIE ,eDP
10	HDMI, VGA CON
11	PCH DMI, PCI, PCIE, USB
12	PCH HOST,LPC, SPI, PM, HDA
13	PCH HOST, SATA
14	PCH NVRAM, FDI, DISPLAY
15	PCH CLK BUFFER AND CLK GEN
16	PCH PWR,GND
17	SIO IT8773 &FRONT PANEL
18	FRONT & REAL USB
19	VCC_CORE & AXG
20	SWITCH POWER
21	LINNER POWER
22	FAN CONTROL
23	HDA CODEC ALC887
24	AUDIO JACK
25	RTL8111E-VL/RTL8105E-H
26	USB30 ASM1042
27	REALTEK RTD2136

**Revision 1.1**

SHEET

TITLE

28	19V-IN DC to DC
29	BOM & PCB MODIFY HISTORY
30	
31	
32	
33	

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**Eletro-X**

<b>GIGABYTE TECHNOLOGIES, INC.</b>			
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Cover Sheet			
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