

Model Name: GA-X79-UP4

Rev 1.01



SHEET TITLE

01	COVER SHEET
02	BOM & PCB MODIFY HISTORY
03	BLOCK DIAGRAM
04	CPU_LGA2011-DDR
05	CPU_LGA2011-CTRL_PCIE_DMI
06	CPU_LGA2011-PWR
07-08	DDR III CHANNEL A/B
09-10	DDR III CHANNEL C/D
11	PCH_SATA_GPIO_AUDIO
12	PCH_DMI_USB_PCIE_PCI
13	PCH_PWR_GND
14	PCI EXPRESS X16 SLOT_1
15	PCI EXPRESS X16 SLOT 2
16-18	PCI EXPRESS X8 SLOT 1/2
19	PCI EXPRESS X1 & PCI SLOT
20	ITE 8728 SIO
21	DUAL BIOS , TPM
22	-PROHOT,KB/MS,RUSB,COMA
23-25	VCORE IR3567
26-28	DDR CH A/B & CPUVTT IR3570*2
29	PBG CORE POWER RT8120
30-31	DISCRETE POWER
32	FP ,FUSB
33	ATX , OC
34-35	ALC898 & AUDIO JACK
36	HWM ,FAN CTRL
37	CLOCK GEN & BUFFER

SHEET TITLE

38	F_USB3_FL1009
39	R_USB3_FL1009
40	Gb LAN-INTEL 82579V
41-42	Marvell 9172 SATA 3.0-A/B
43	Marvell 9172 eSATA
44	PCH GPIO LIST

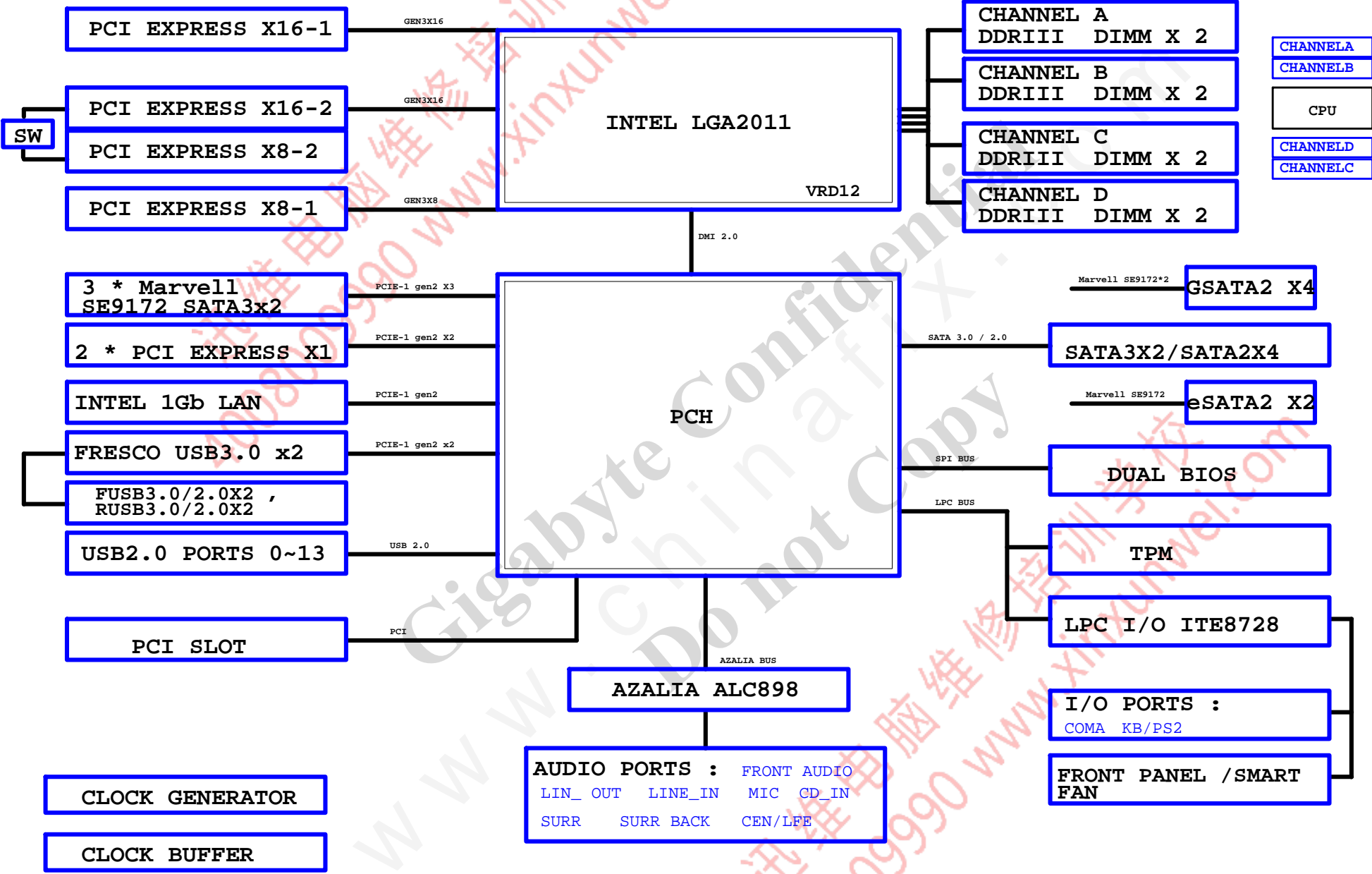
Gigabyte Technology

Title		
Cover Sheet		
Size	Document Number	Rev
Custom	GA-X79-UP4	1.01
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Component value change history

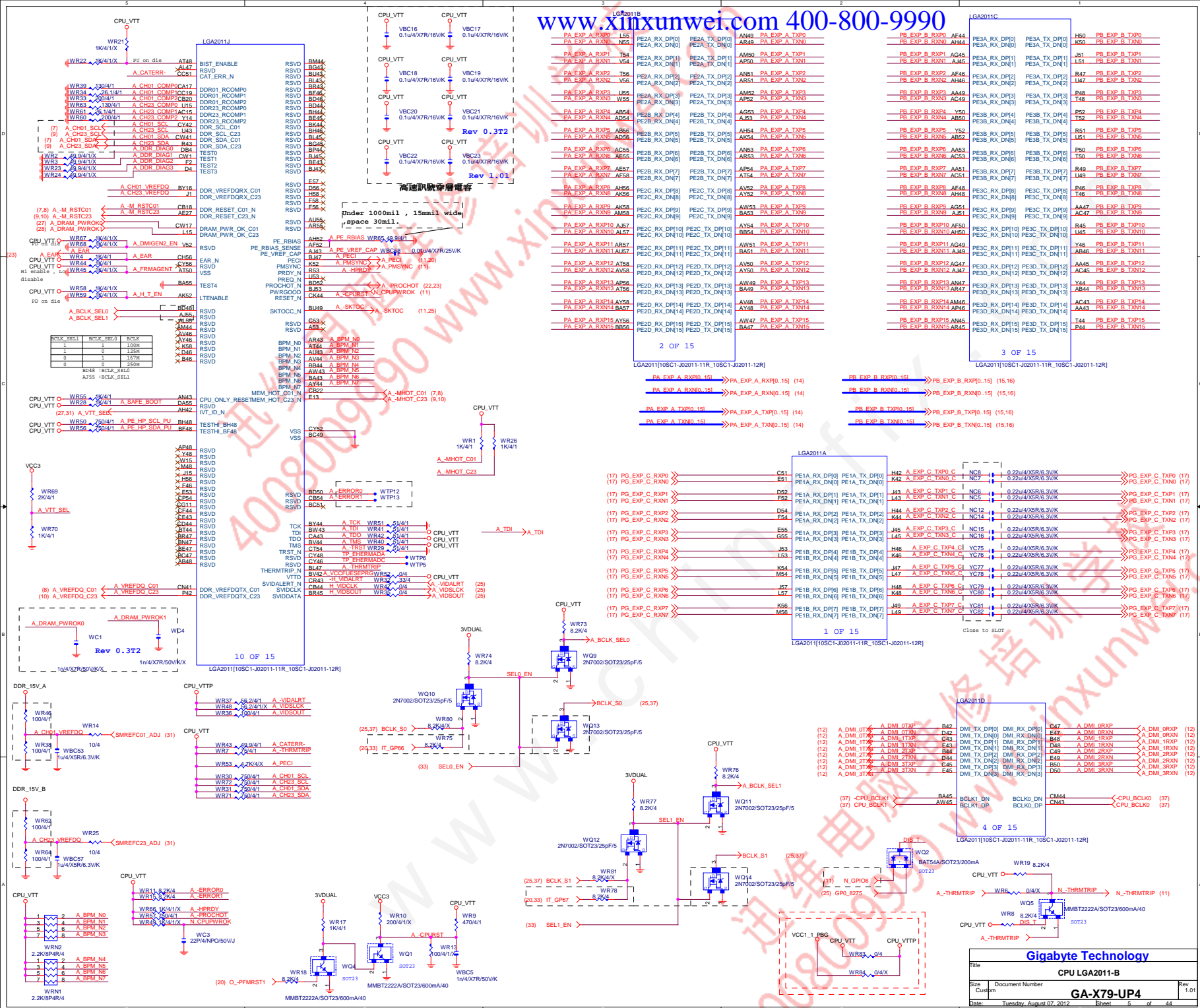
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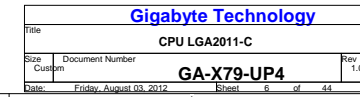
BLOCK DIAGRAM

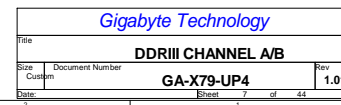




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M_AA03	CL28	DDR0_MA03	DDR0_D003	CC10	M_DA3				
M_AA04	CL29	DDR0_MA04	DDR0_D004	CC11	M_DA4				
M_AA05	CL30	DDR0_MA05	DDR0_D005	CC12	M_DA5				
M_AA06	CL31	DDR0_MA06	DDR0_D006	CC13	M_DA6				
M_AA07	CL32	DDR0_MA07	DDR0_D007	CC14	M_DA7				
M_AA08	CL33	DDR0_MA08	DDR0_D008	CC15	M_DA8				
M_AA09	CL34	DDR0_MA09	DDR0_D009	CC16	M_DA9				
M_AA10	CL35	DDR0_MA10	DDR0_D010	CC17	M_DA10				
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M_AA17	CL42	DDR0_MA17	DDR0_D017	CC24	M_DA17				
M_AA18	CL43	DDR0_MA18	DDR0_D018	CC25	M_DA18				
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M_AA20	CL45	DDR0_MA20	DDR0_D020	CC27	M_DA20				
M_AA21	CL46	DDR0_MA21	DDR0_D021	CC28	M_DA21				
M_AA22	CL47	DDR0_MA22	DDR0_D022	CC29	M_DA22				
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M_AA28	CL53	DDR0_MA28	DDR0_D028	CC35	M_DA28				
M_AA29	CL54	DDR0_MA29	DDR0_D029	CC36	M_DA29				
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M_AA44	CL69	DDR0_MA44	DDR0_D044	CC51	M_DA44				
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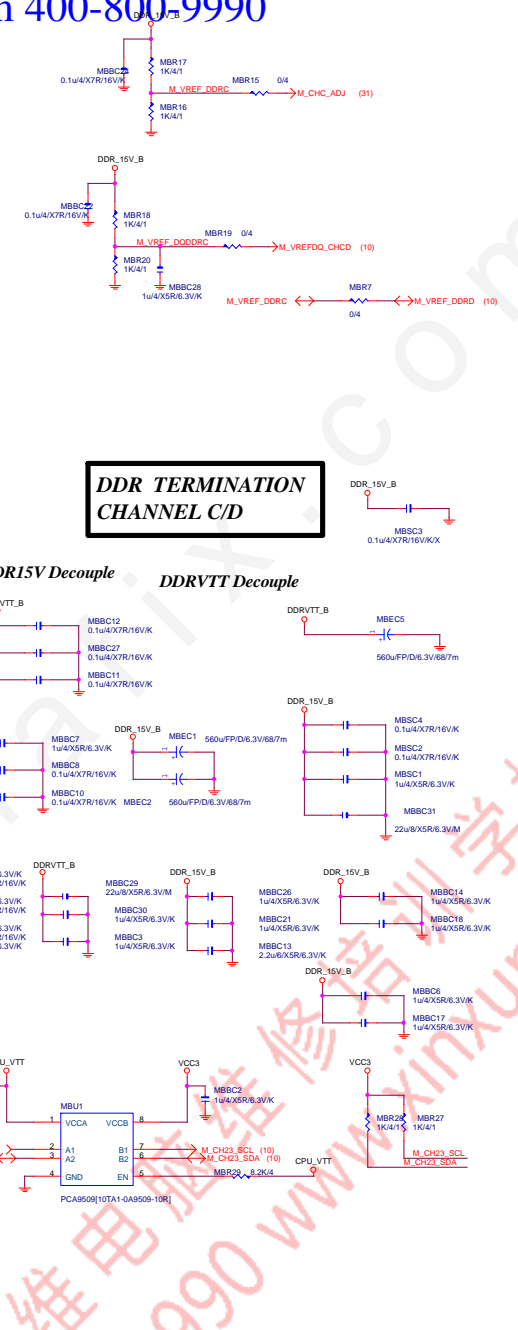
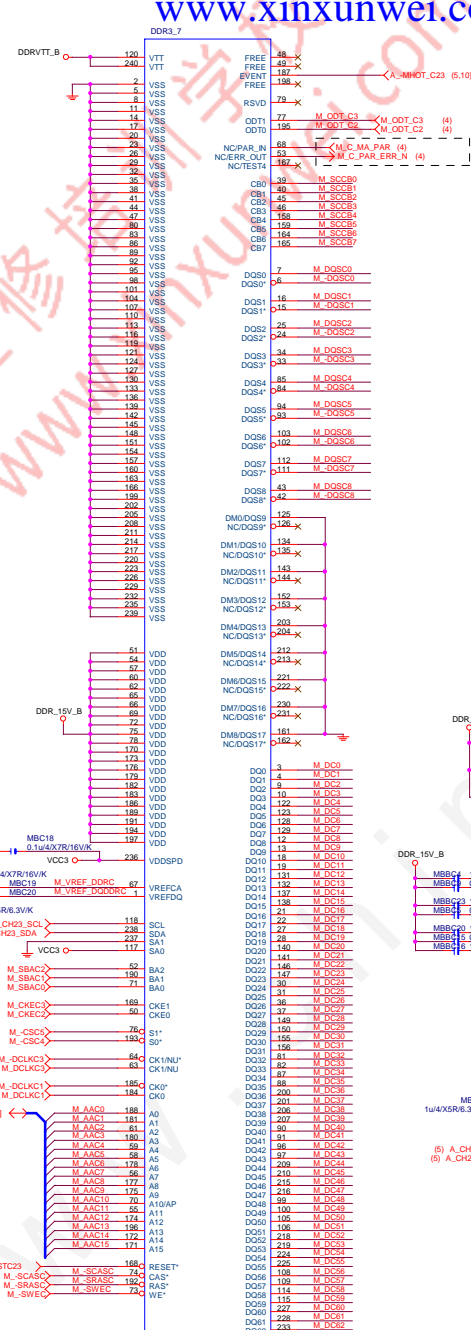
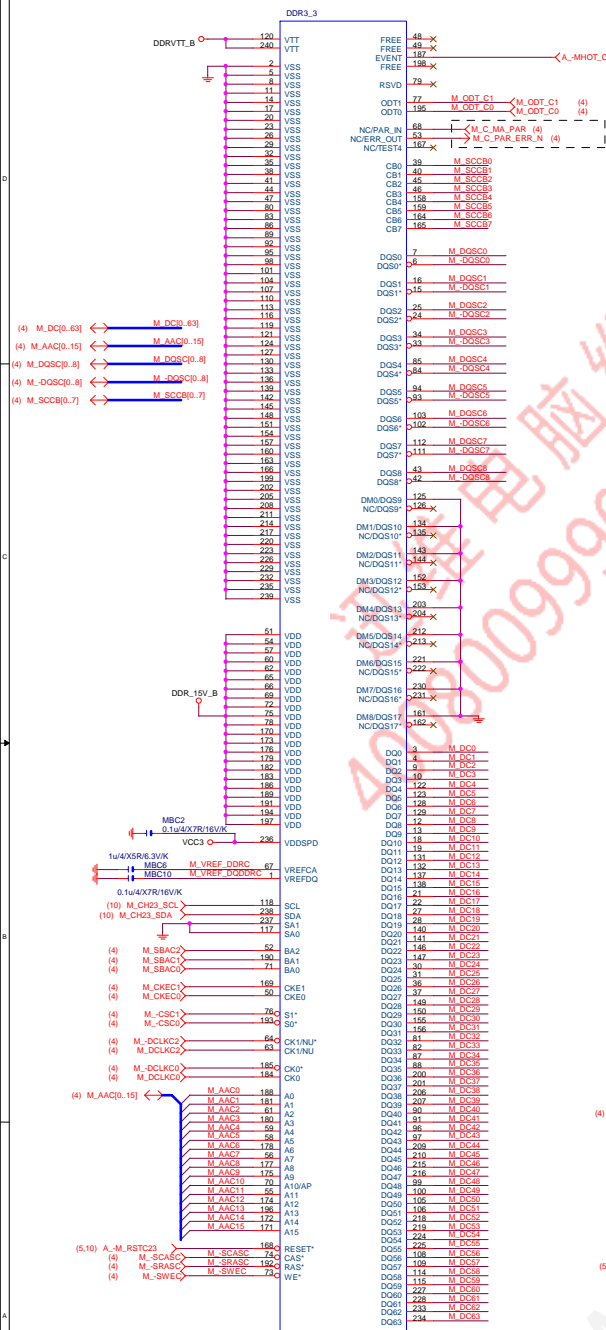








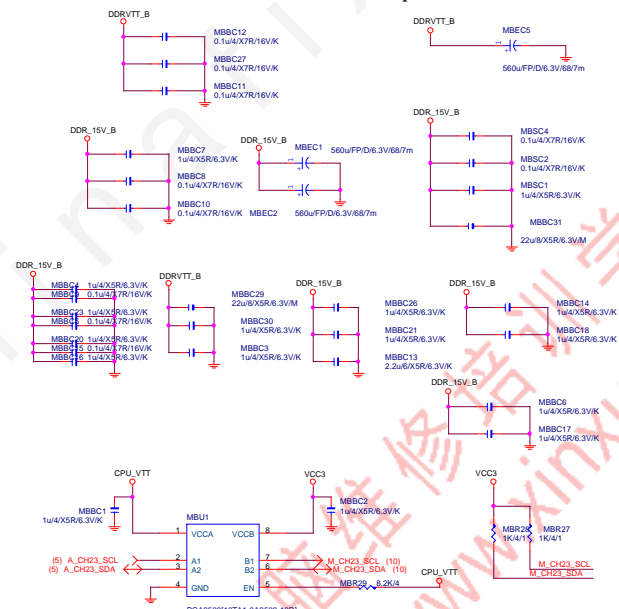
<i>Gigabyte Technology</i>			
DDRIII CHANNEL A/B			
Size	Document Number		Rev
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DDR TERMINATION CHANNEL C/D

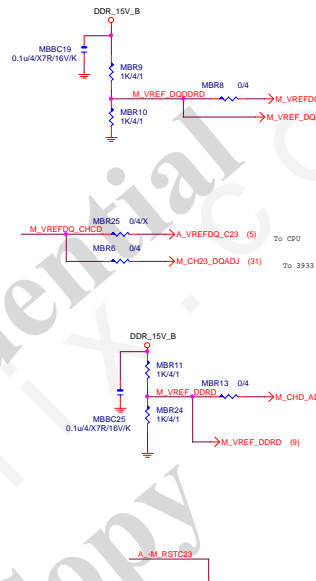
DDR15V Decouple

DDRVTT Decouple



Gigabyte Technology

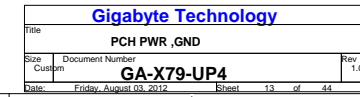
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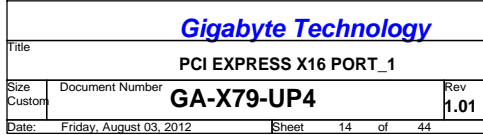


<i>Gigabyte Technology</i>			
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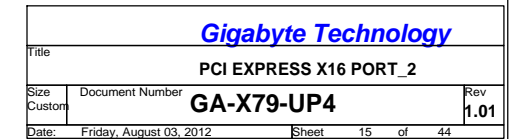


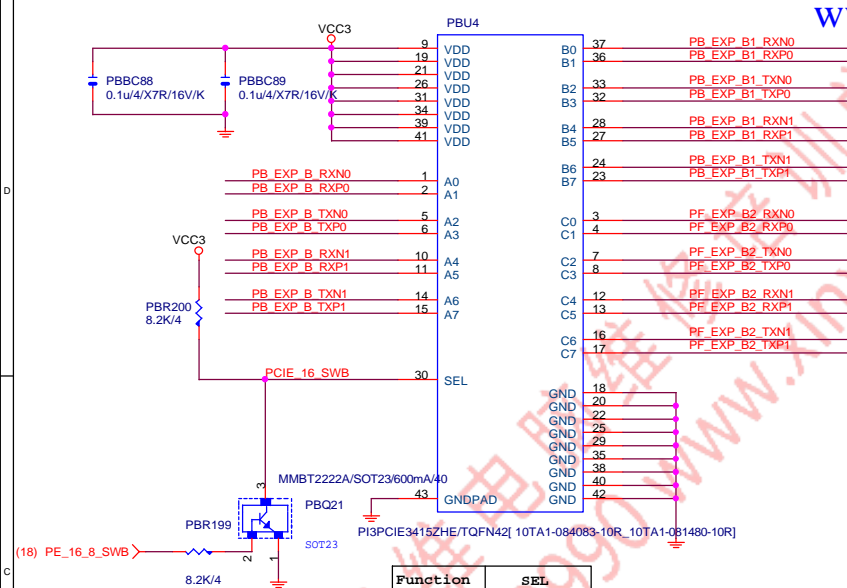
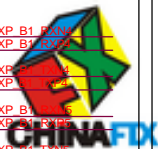






PCIEX16_2 3GIO_*16





PF_EXP_B2_RXP0[0..7] >> PF_EXP_B2_RXP[0..7] (18)

PF_EXP_B2_RXN0[0..7] >> PF_EXP_B2_RXN[0..7] (18)

PF_EXP_B2_TXP0[0..7] >> PF_EXP_B2_TXP[0..7] (18)

PF_EXP_B2_TXN0[0..7] >> PF_EXP_B2_TXN[0..7] (18)

PB_EXP_B1_RXP0[0..7] >> PB_EXP_B1_RXP[0..7] (15)

PB_EXP_B1_RXN0[0..7] >> PB_EXP_B1_RXN[0..7] (15)

PB_EXP_B1_TXP0[0..7] >> PB_EXP_B1_TXP[0..7] (15)

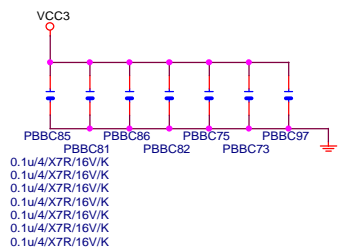
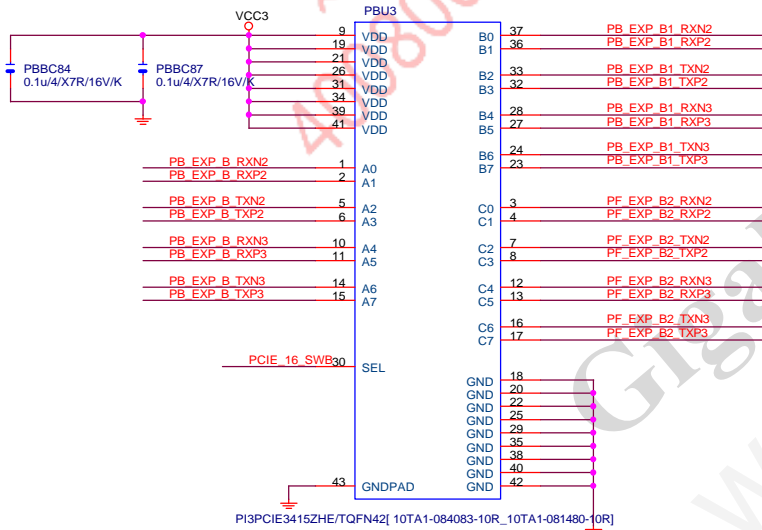
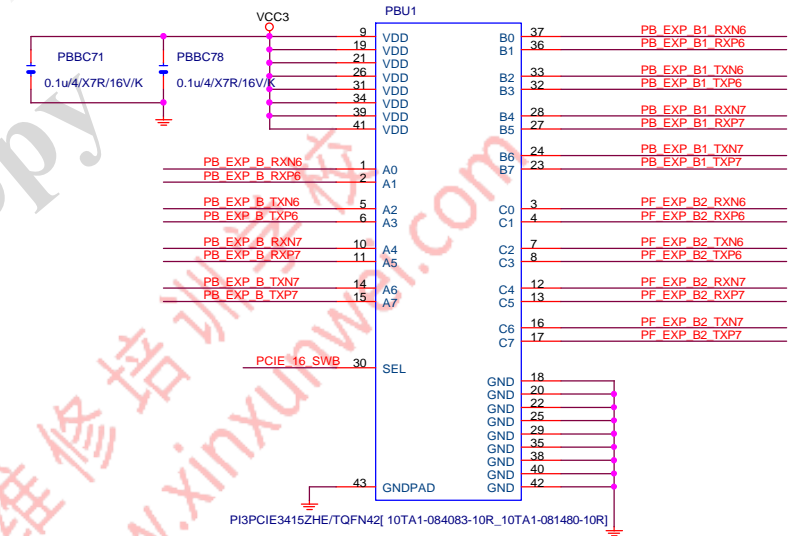
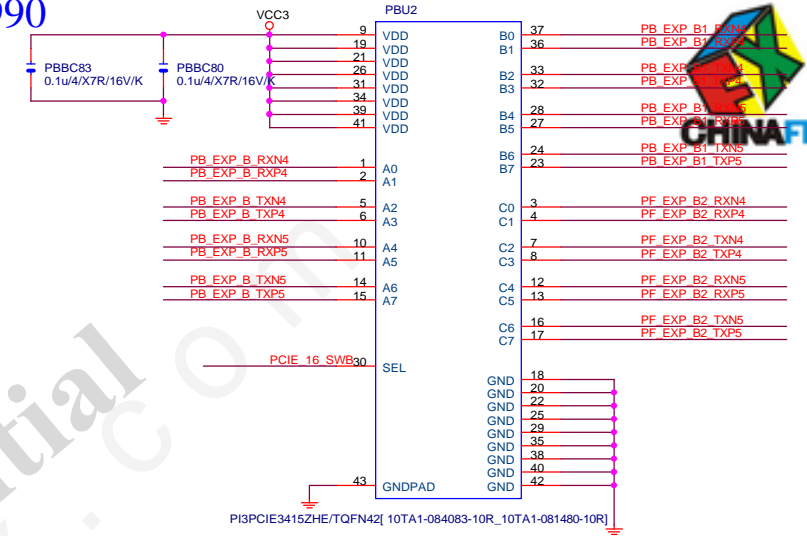
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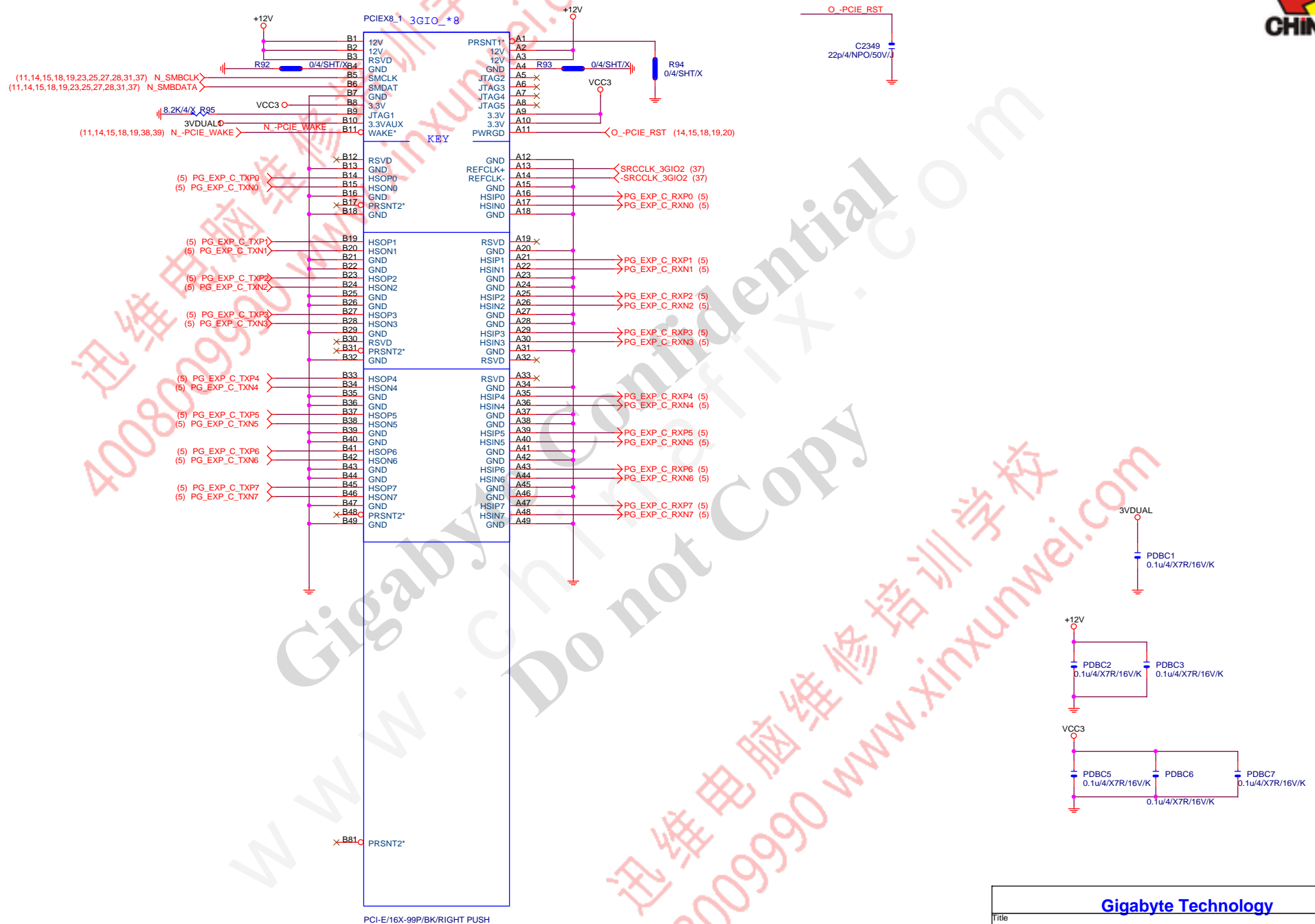
PB_EXP_B_RXP0[0..7] >> PB_EXP_B_RXP[0..7] (5)

PB_EXP_B_RXN0[0..7] >> PB_EXP_B_RXN[0..7] (5)

PB_EXP_B_TXP0[0..7] >> PB_EXP_B_TXP[0..7] (5)

PB_EXP_B_TXN0[0..7] >> PB_EXP_B_TXN[0..7] (5)

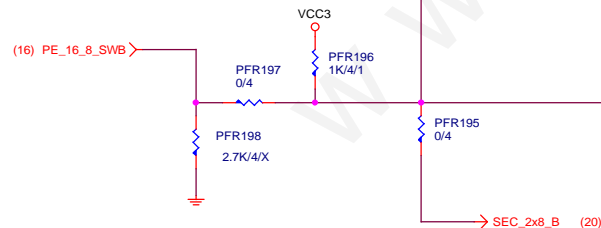
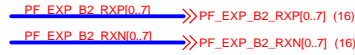
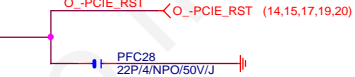
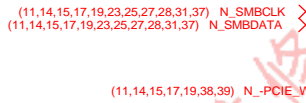
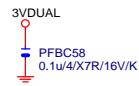


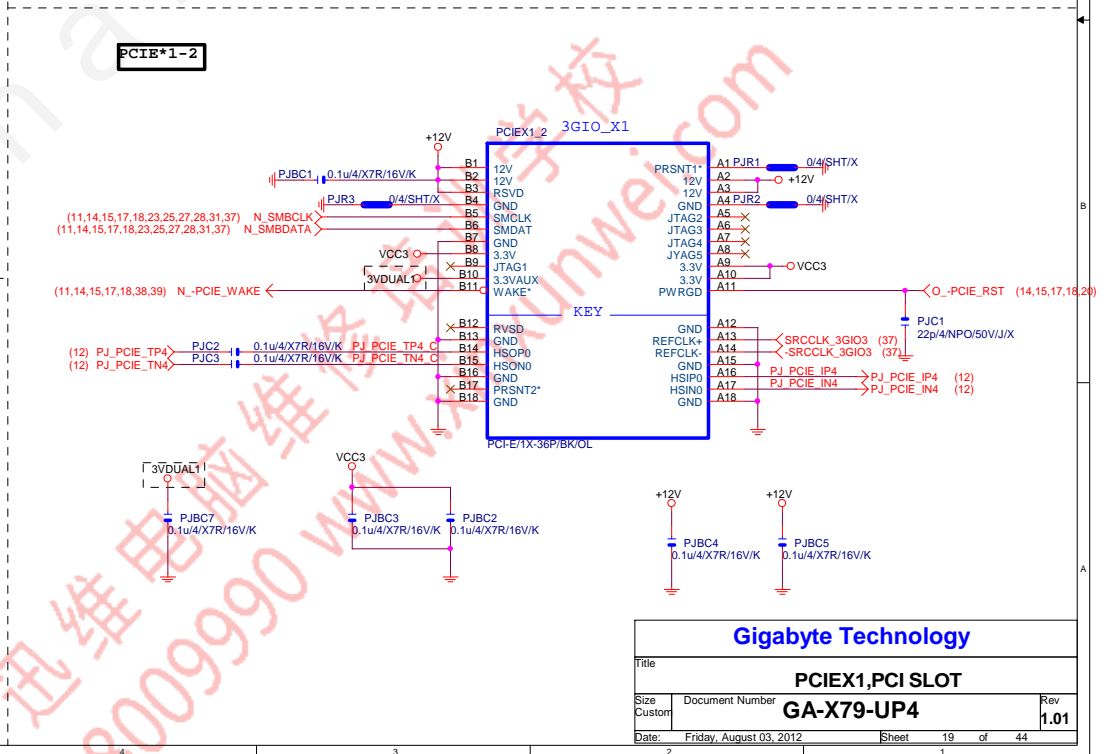
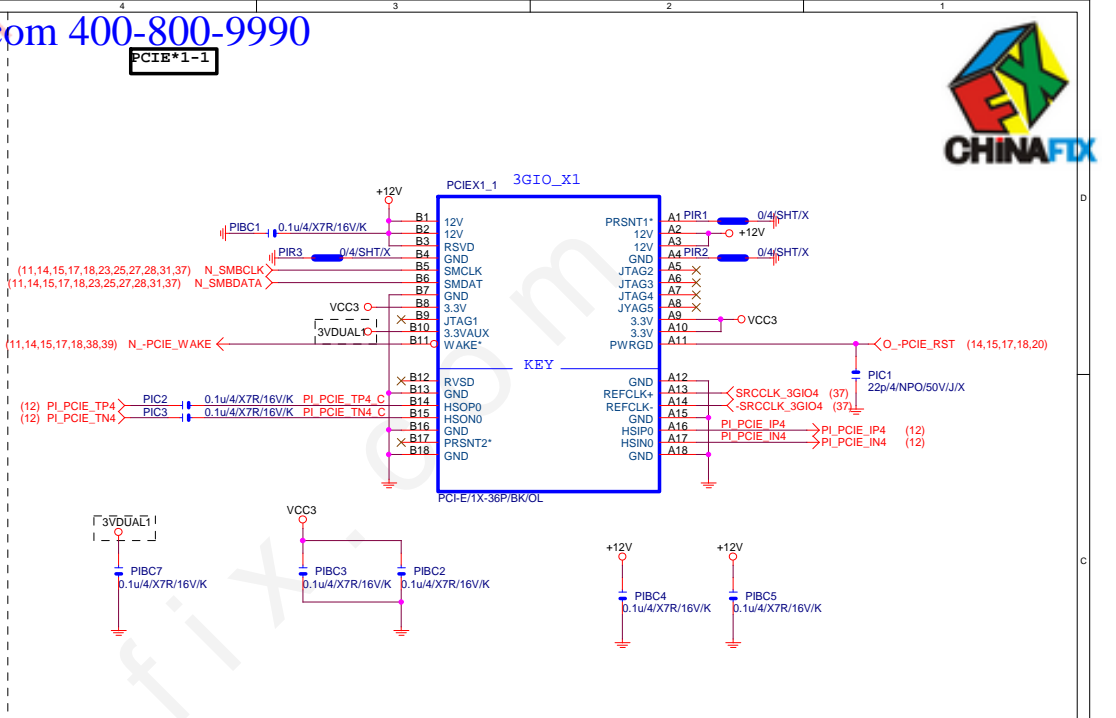


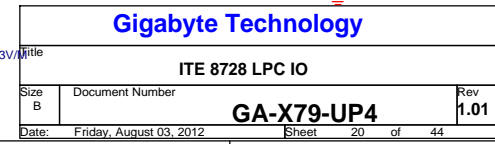
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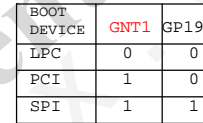
Gigabyte Technology

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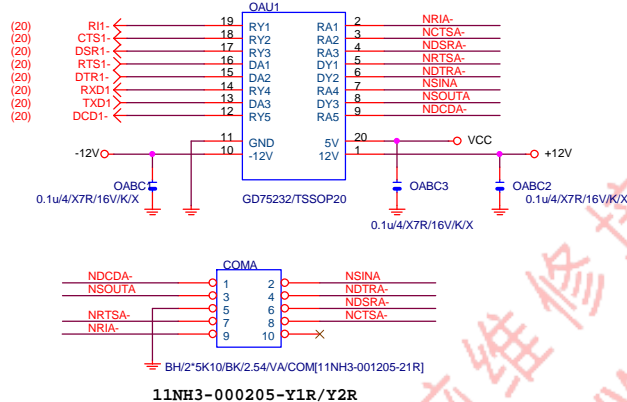




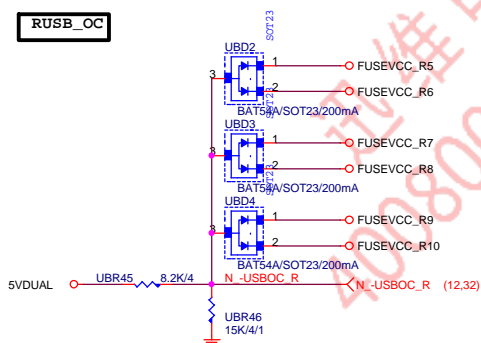


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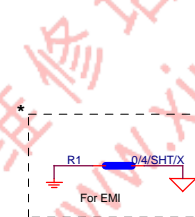
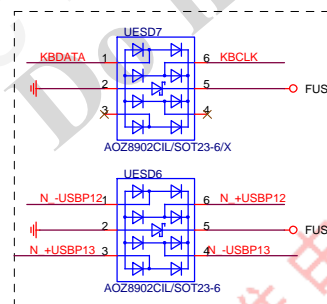
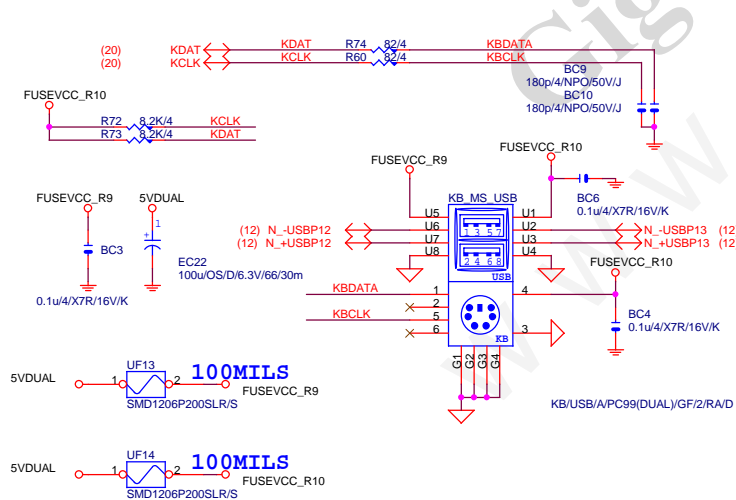
COMA



RUSB_OC

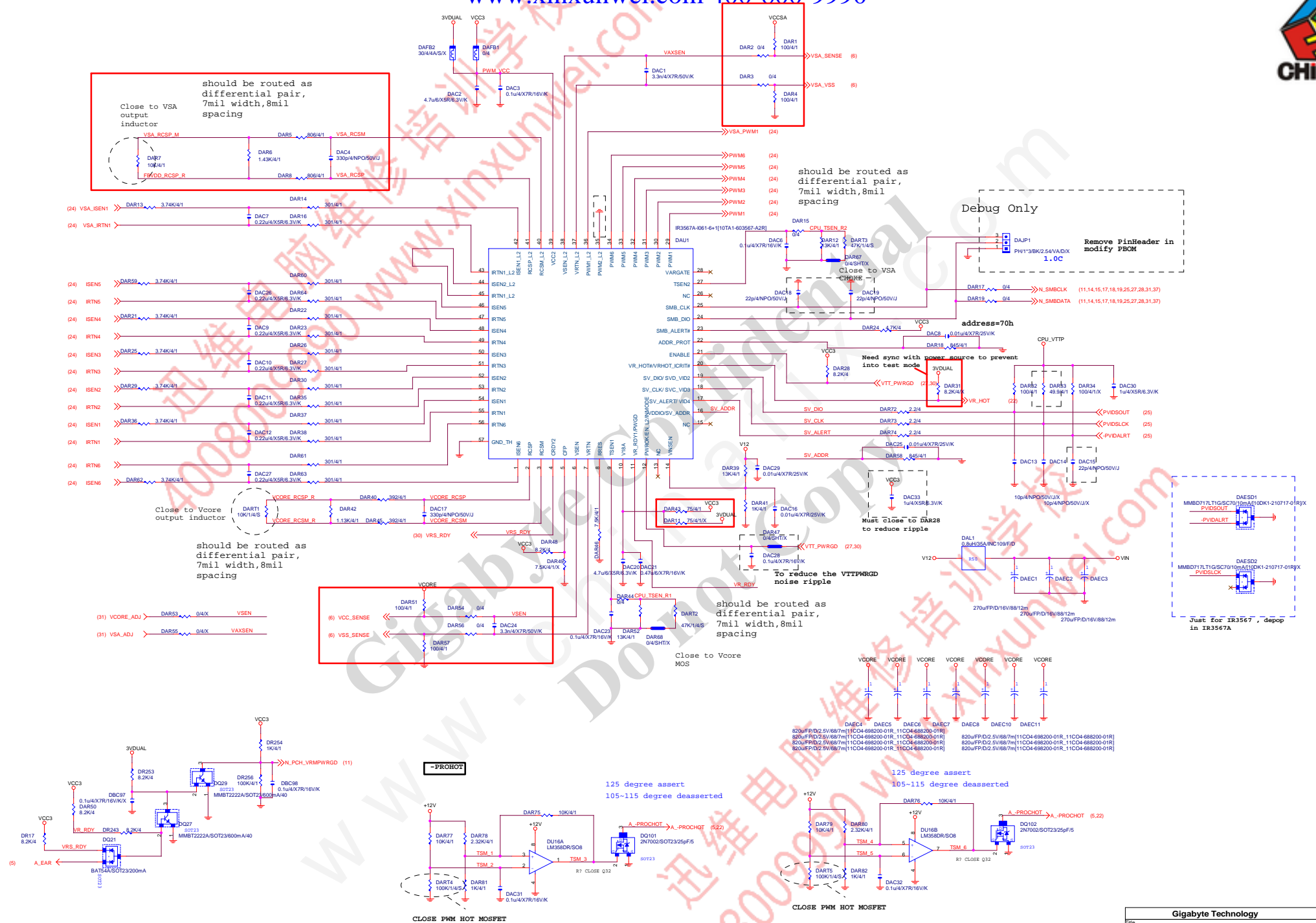


KB/MS

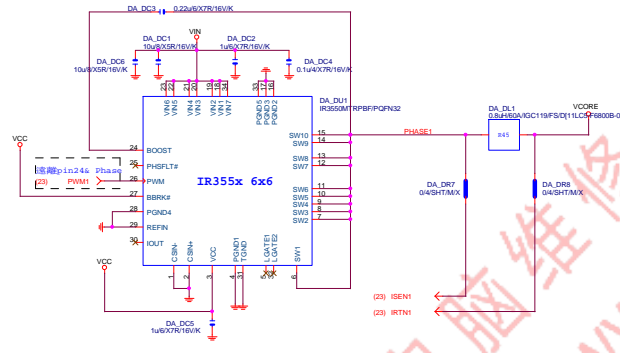


Gigabyte Technology

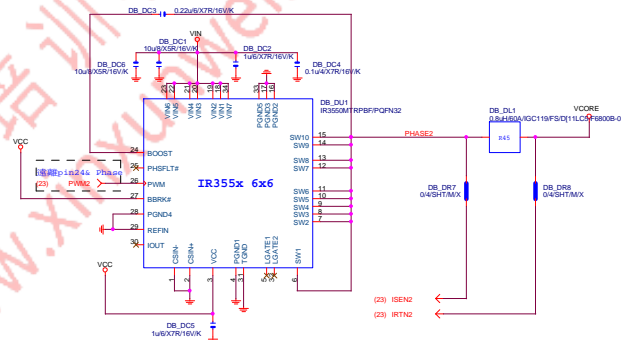
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Size	Document Number	GA-X79-UP4		Rev
Custom		1.01		
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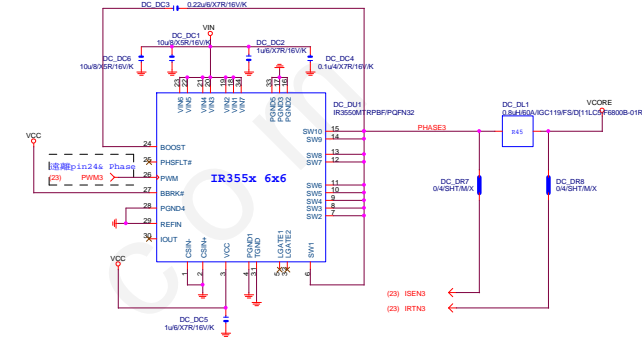
VCORE-PHASE1



VCORE-PHASE2

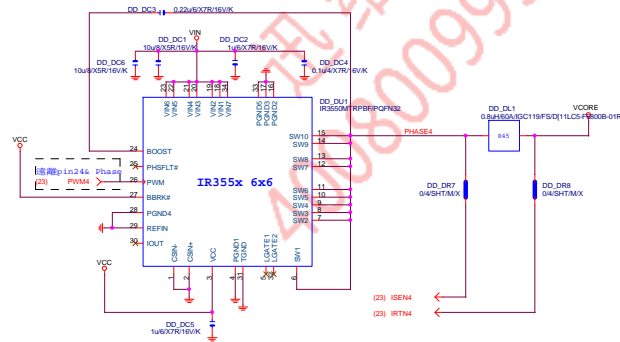


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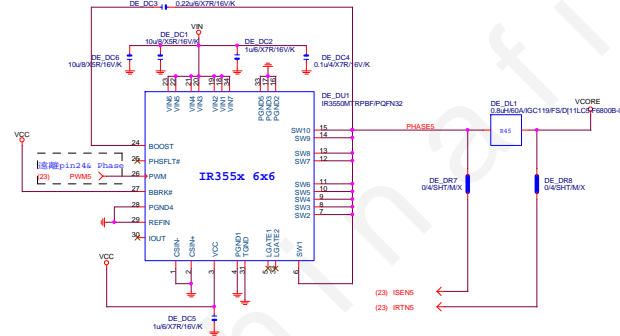


Choke need change to correct parts : 0.8u/60A

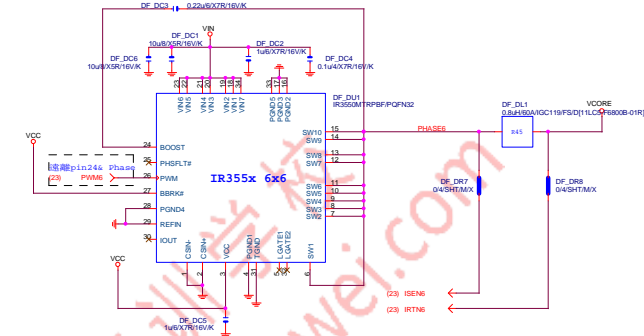
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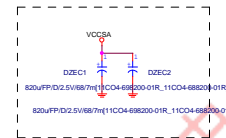
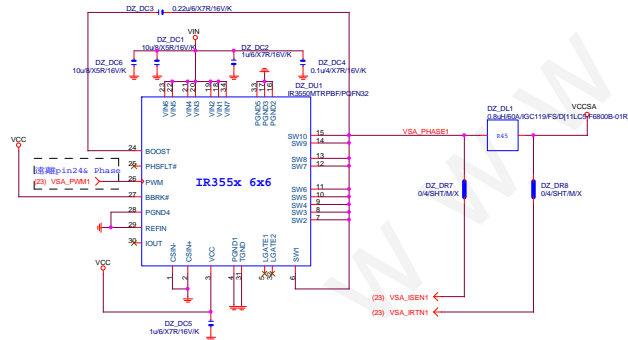
VCORE-PHASE5



VCORE-PHASE6



VSA-PHASE



MOS HEATSINK

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

MOS_H6

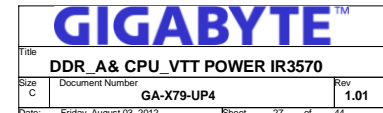
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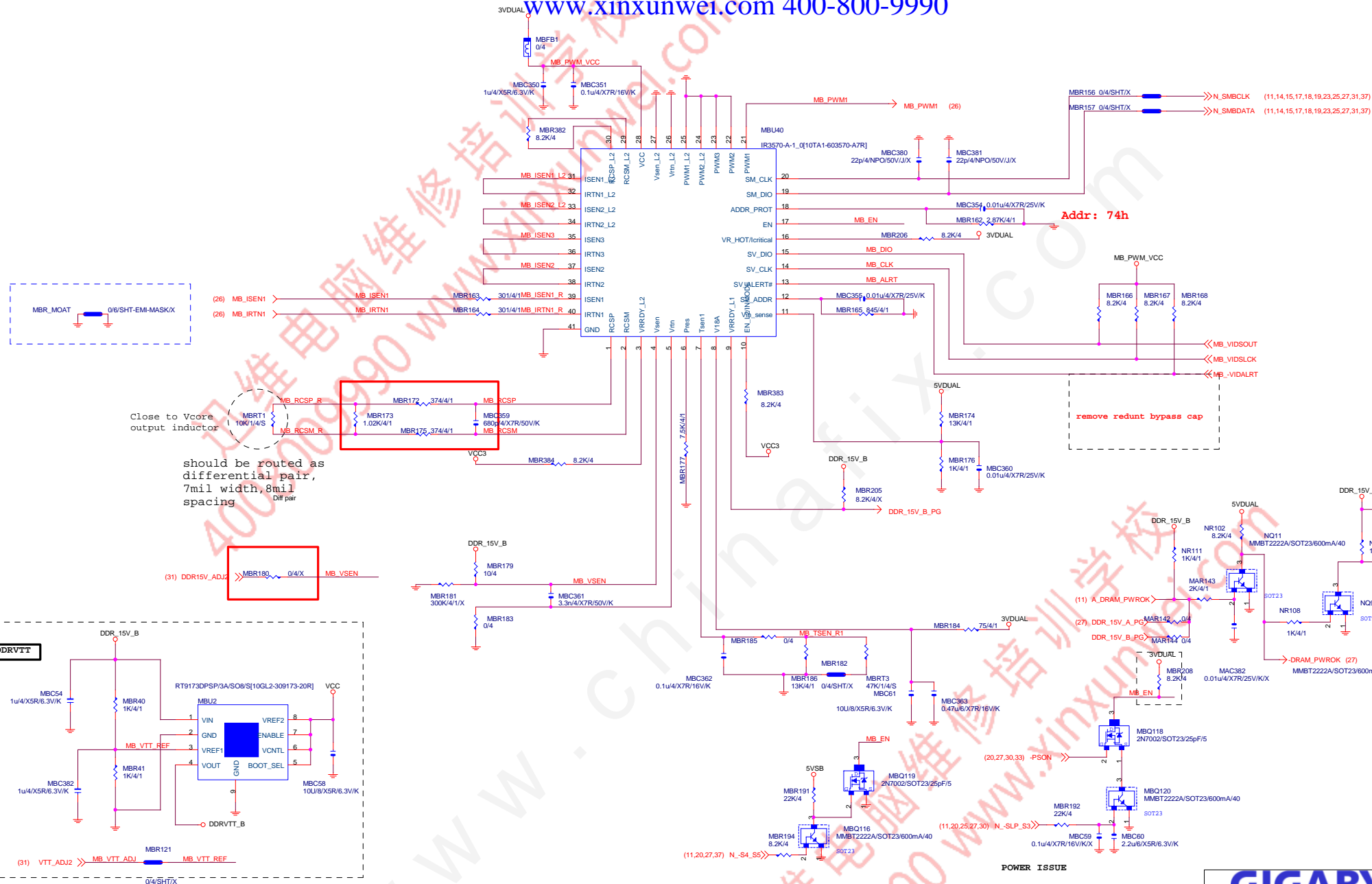
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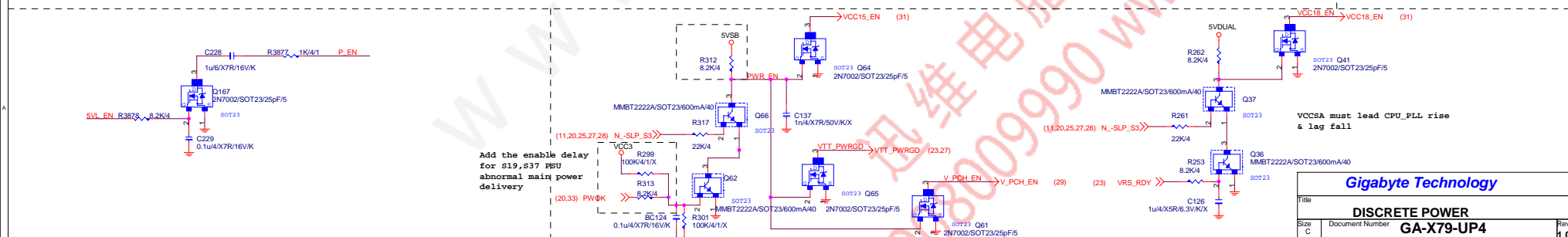
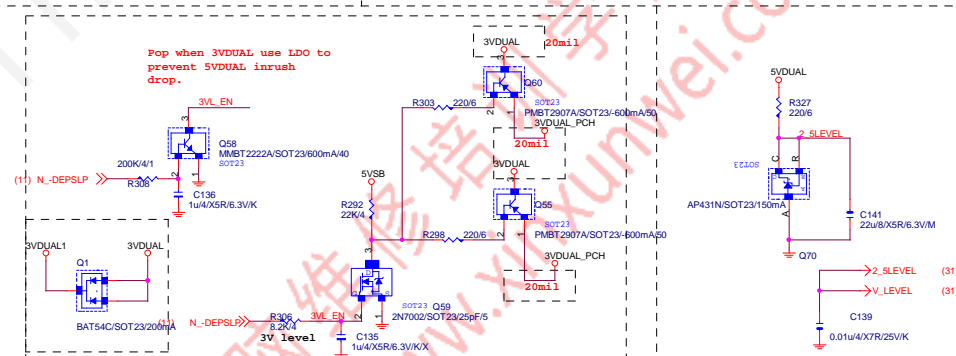
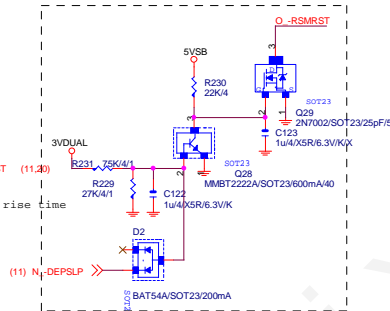
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MOS_H6



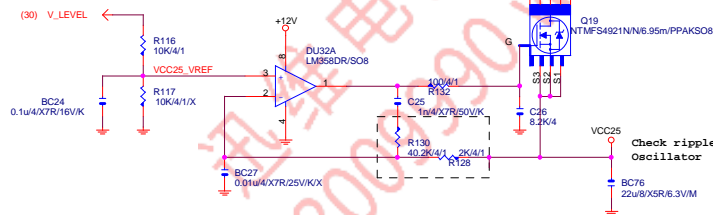
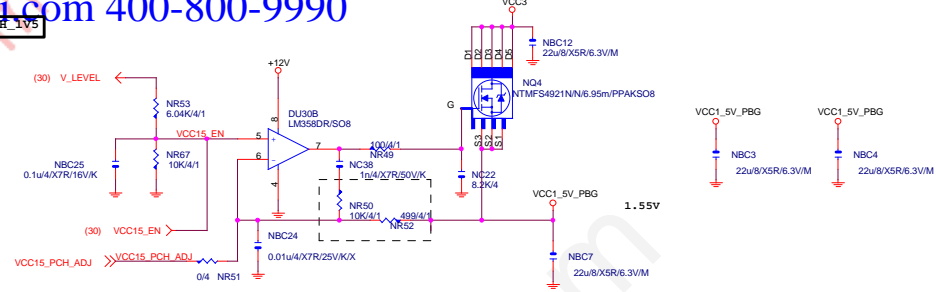
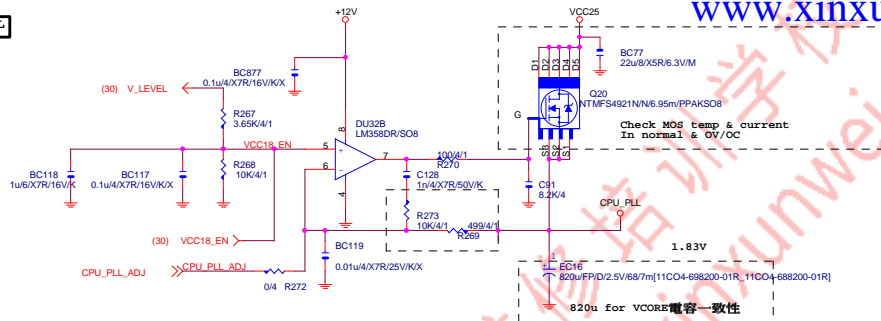




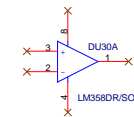


CPU_PLL

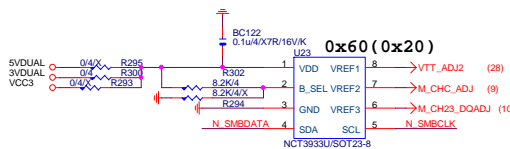
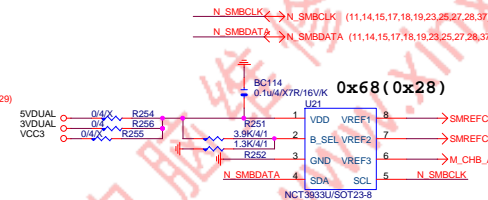
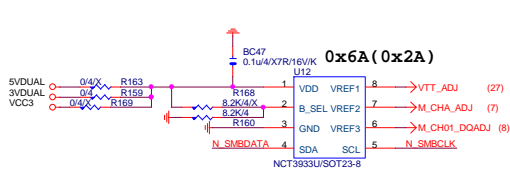
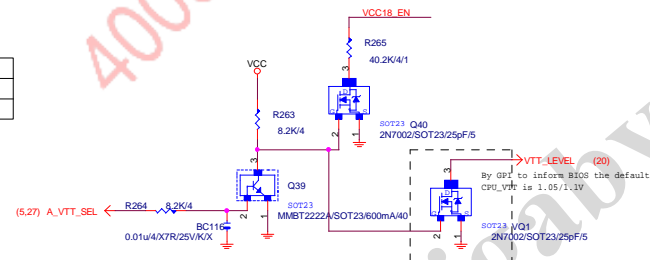
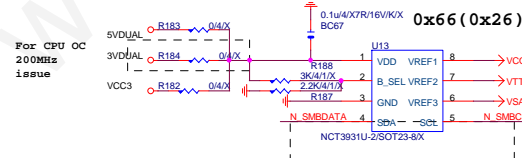
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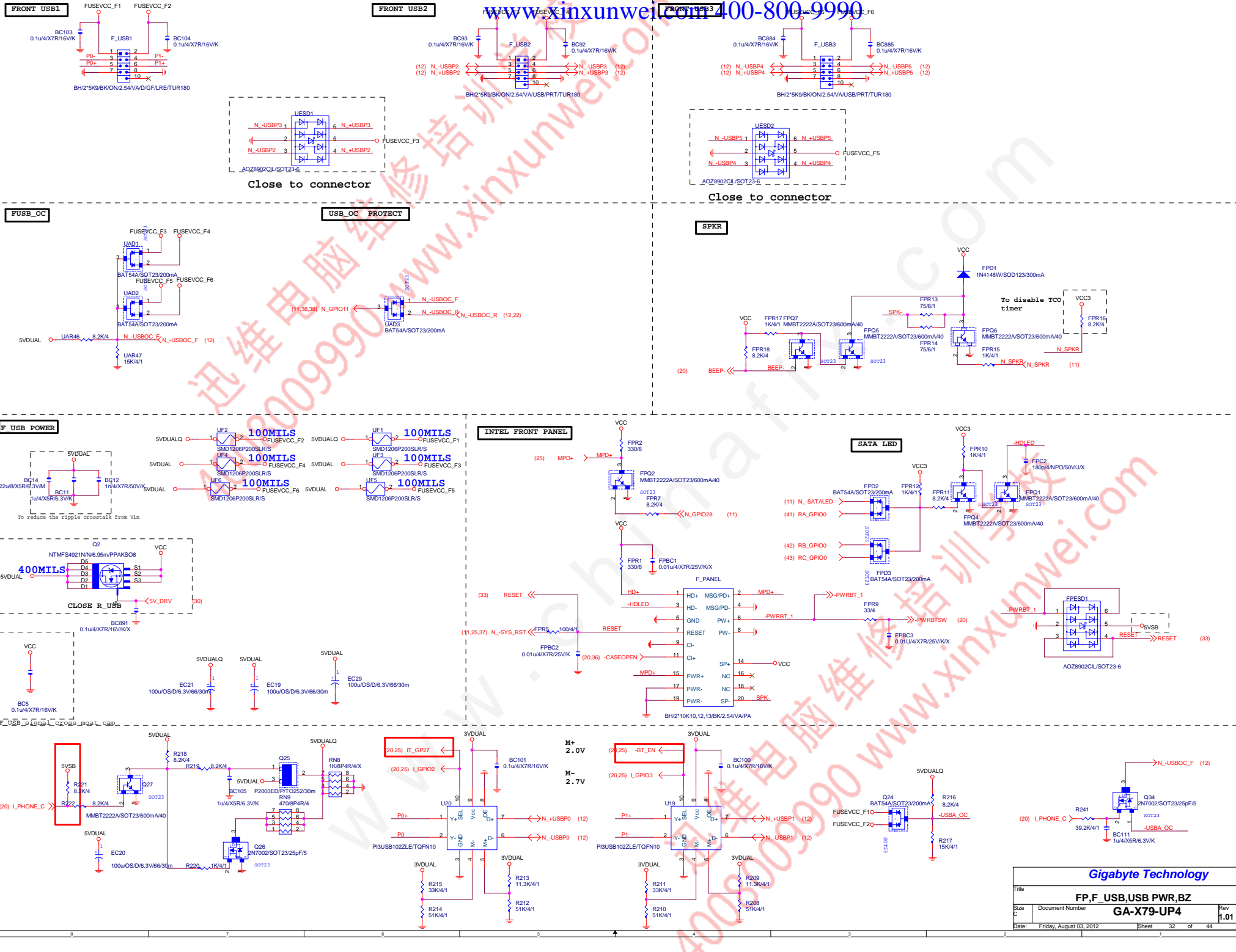


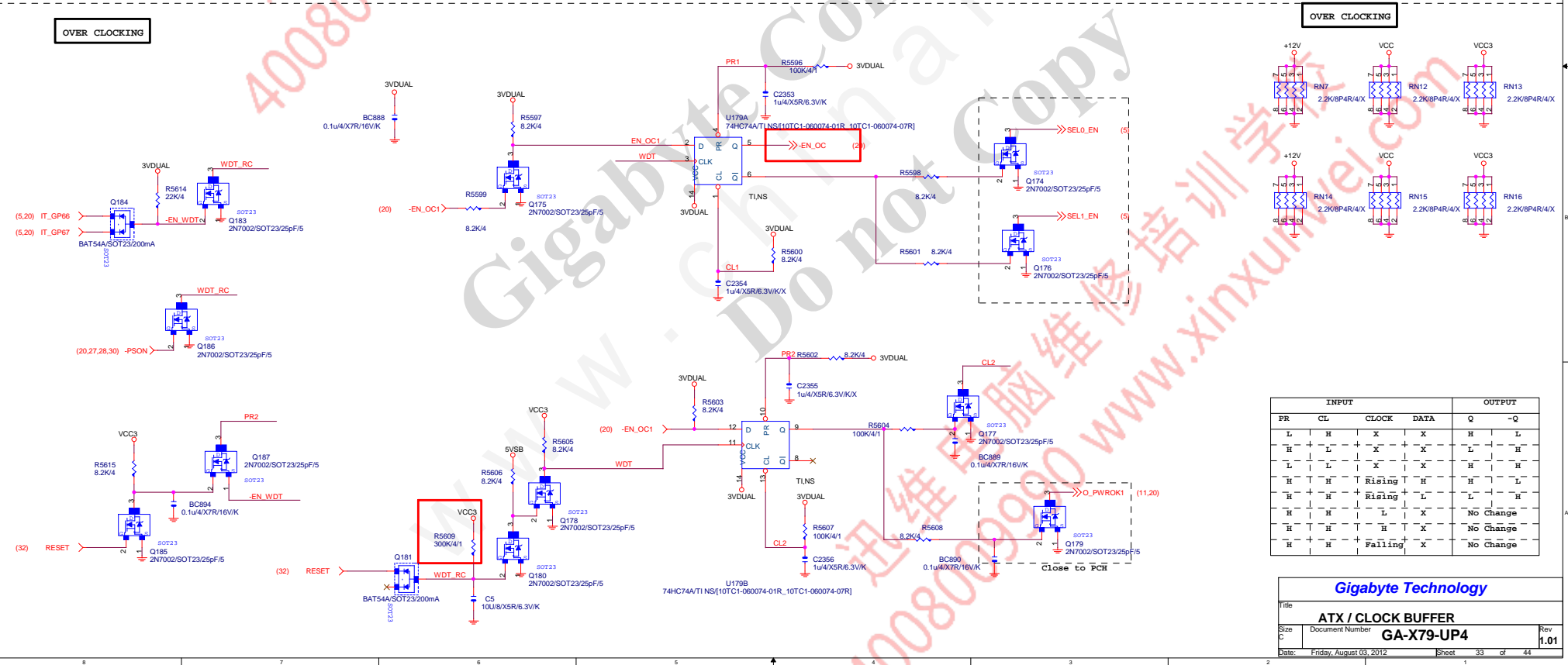
Rev 1.01



A_VTT_SEL	
HI	1.8V (SNB)
LO	1.7V (IVB)

For CPU OC
200MHz
issue





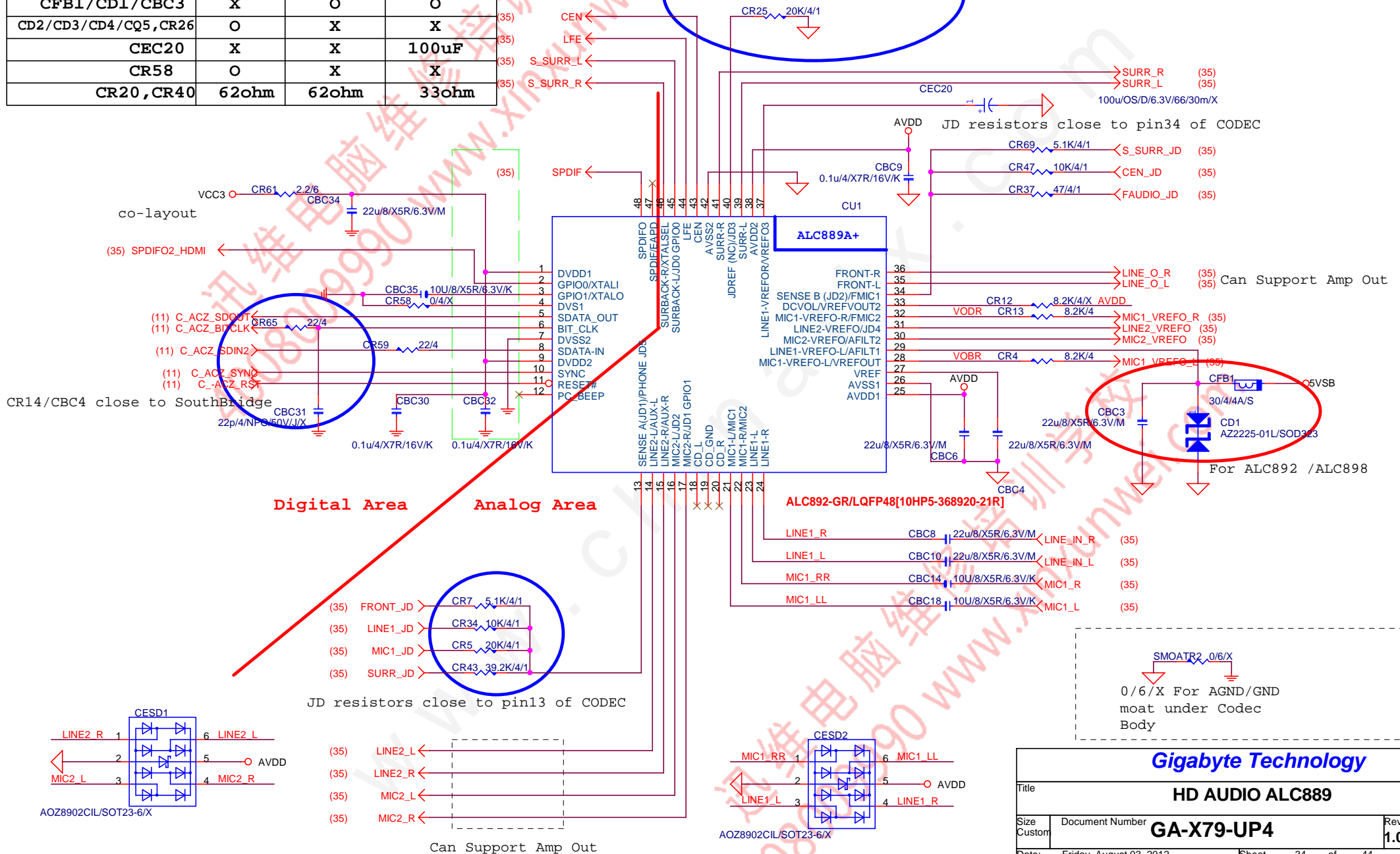
AZALIA CODEC

ALC889/ALC892/ALC898 Colay

	ALC889	ALC892	ALC898
CBC35	X	10uF/X5R	10uF/X5R
CFB1/CD1/CBC3	X	O	O
CD2/CD3/CD4/CQ5,CR26	O	X	X
CEC20	X	X	100uF
CR58	O	X	X
CR20,CR40	62ohm	62ohm	33ohm

CR2: 20K/4/0.1% @ALC889A

CR2: 20K/4/1% @ALC889A+/ALC888Vx

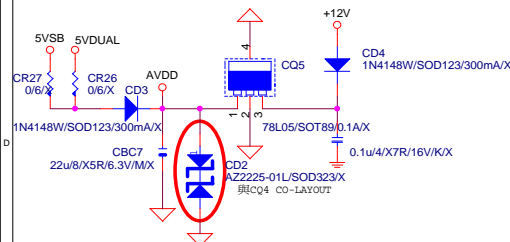


Gigabyte Technology

HD AUDIO ALC889

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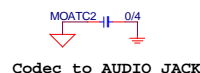
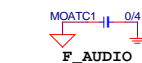
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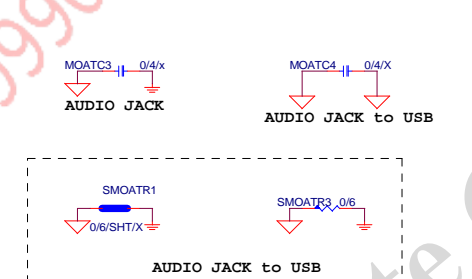
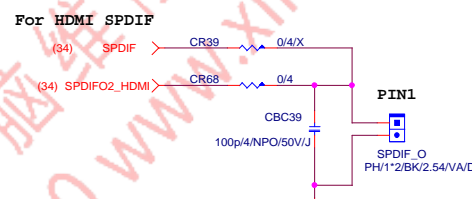
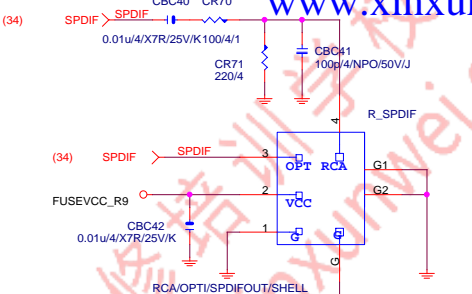
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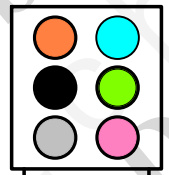
MOAT CAP.



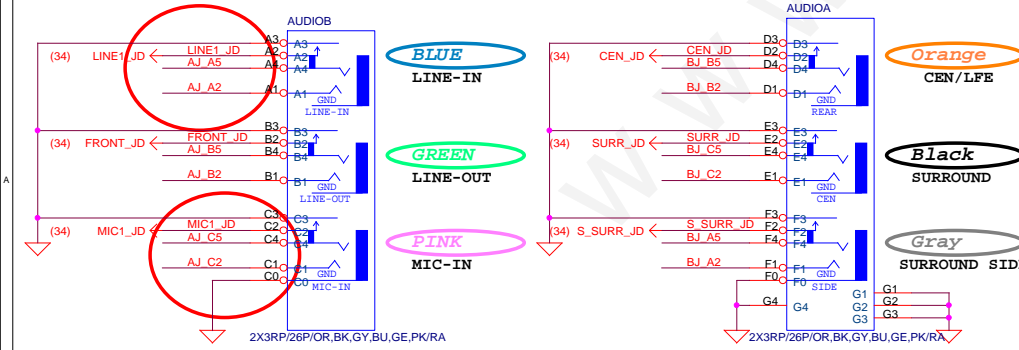
LINE-OUT



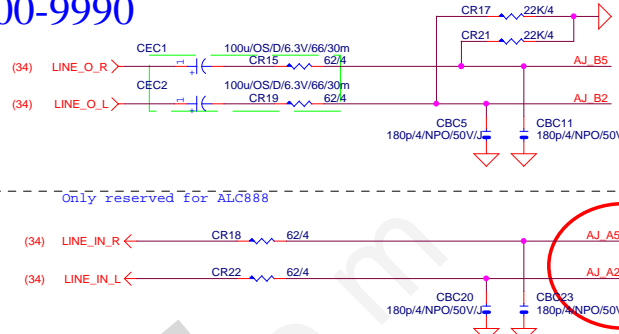
For HDMI SPDIF AZALIA CONNECTOR



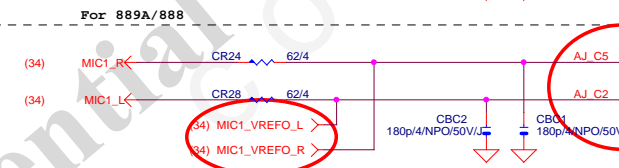
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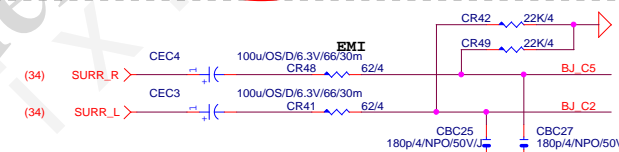
LINE-IN



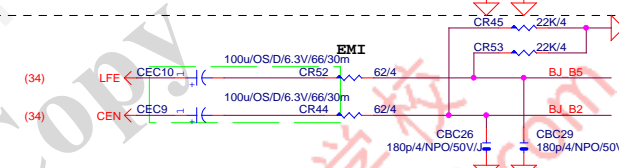
MIC-IN



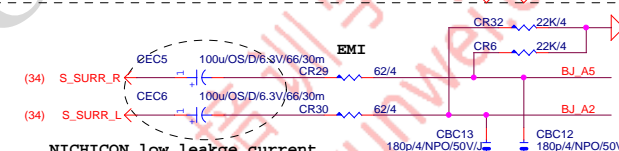
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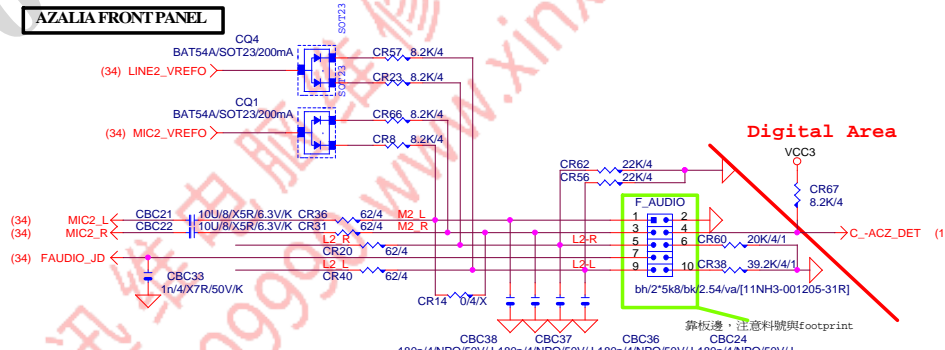
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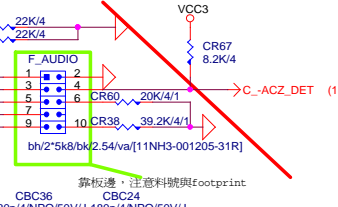
SURRBACK



AZALIA FRONT PANEL



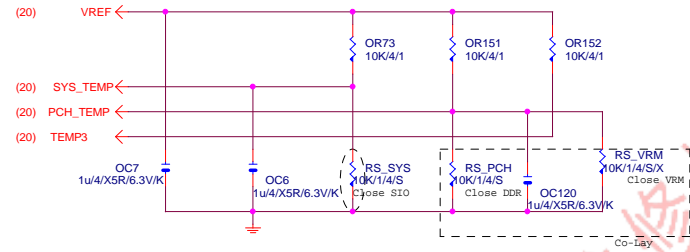
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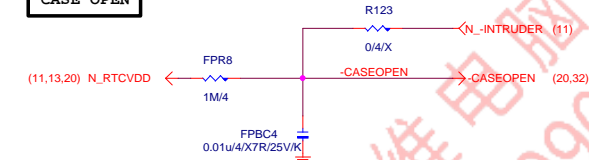
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1.01		



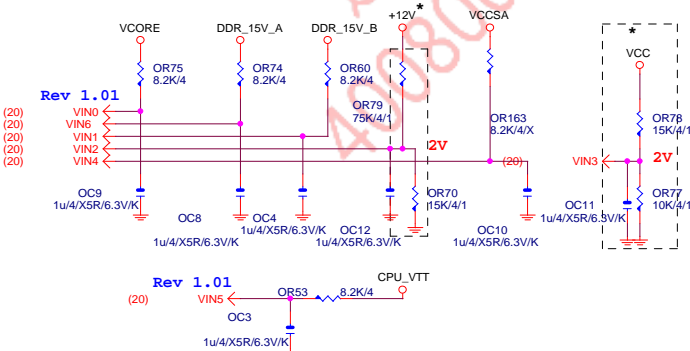
TEMP H/W MONITOR



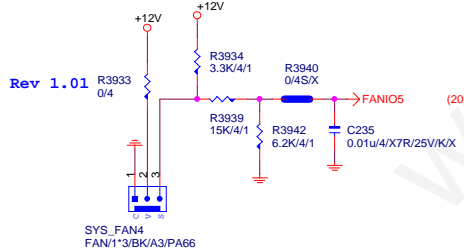
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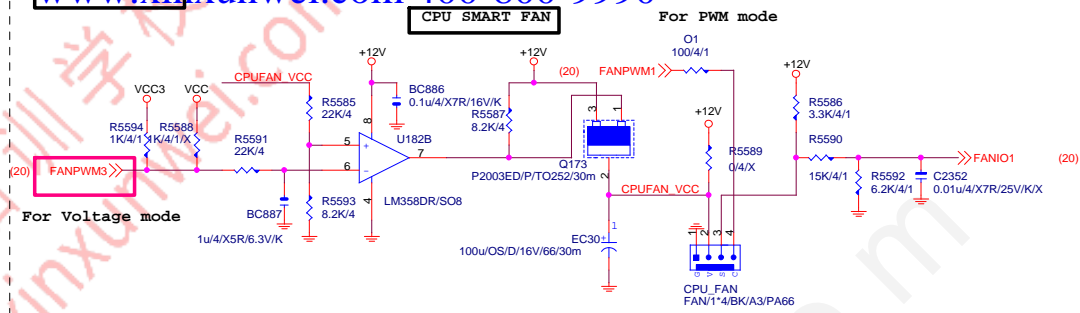
VOLTAGE-- H/W MONITOR



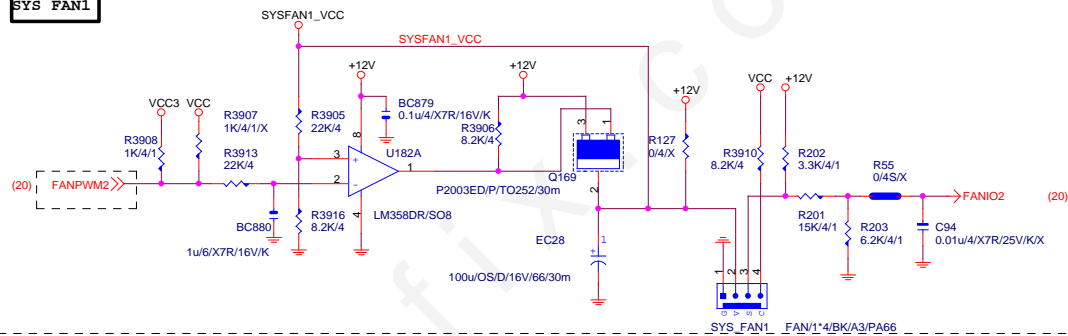
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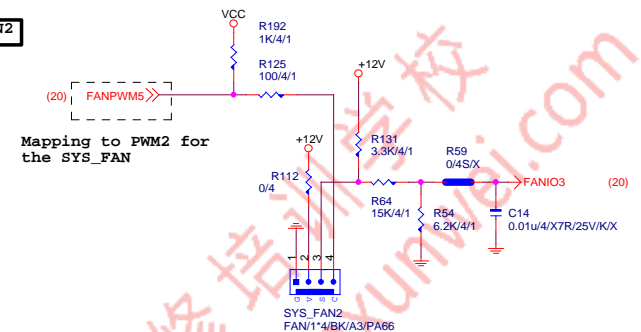
CPU SMART FAN



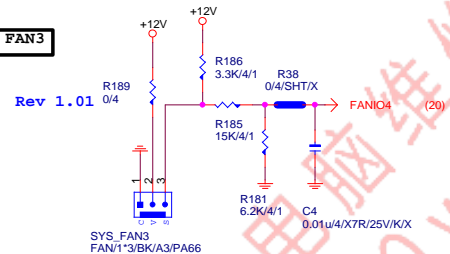
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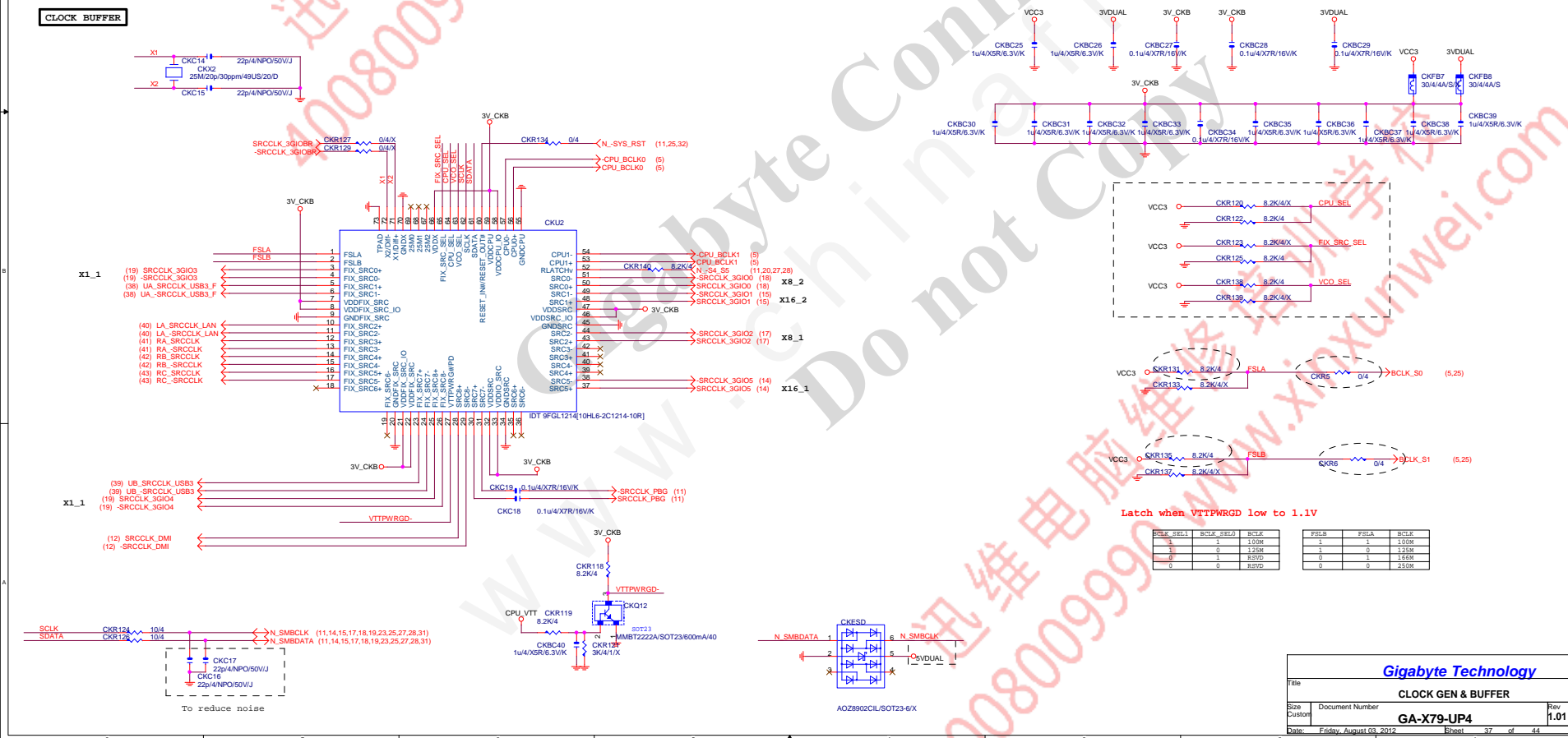
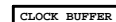
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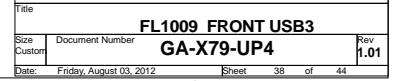


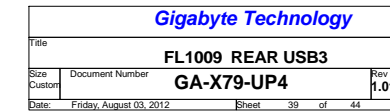
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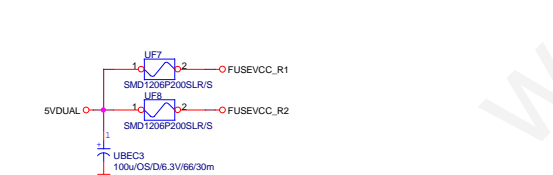
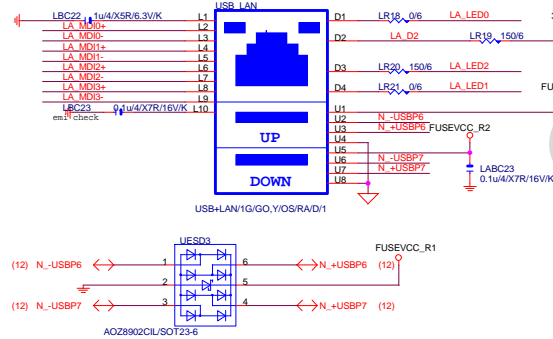
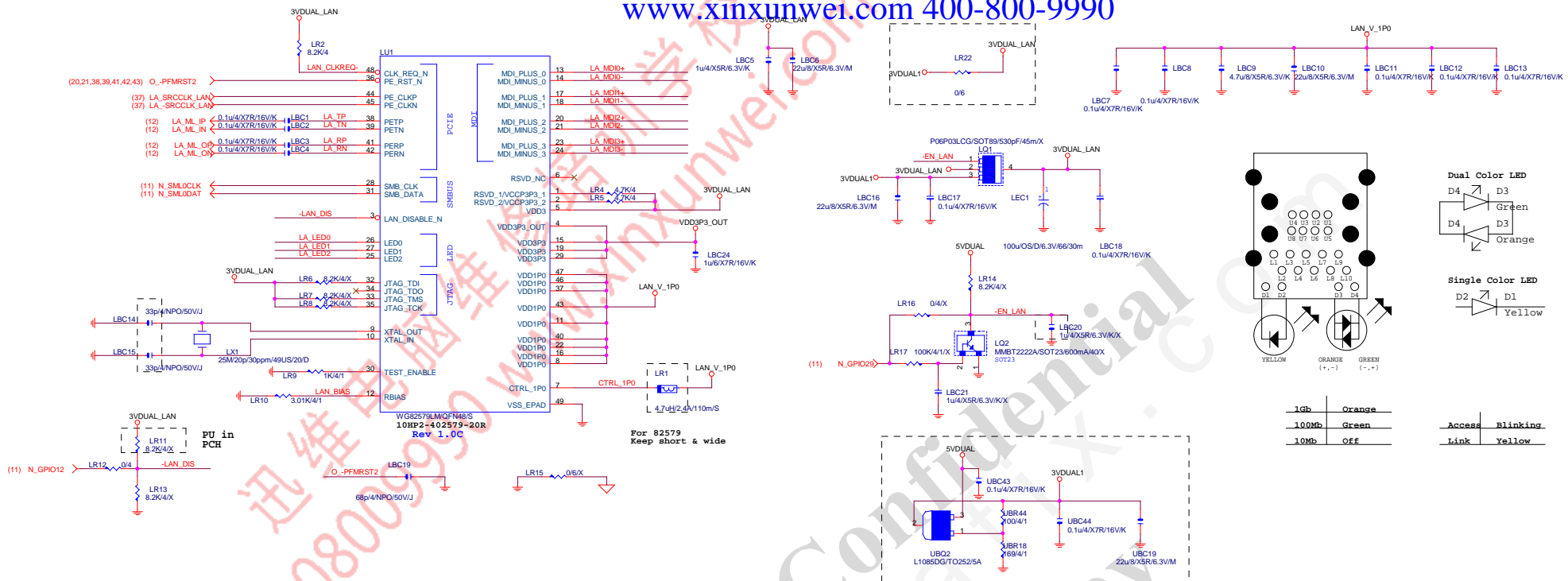


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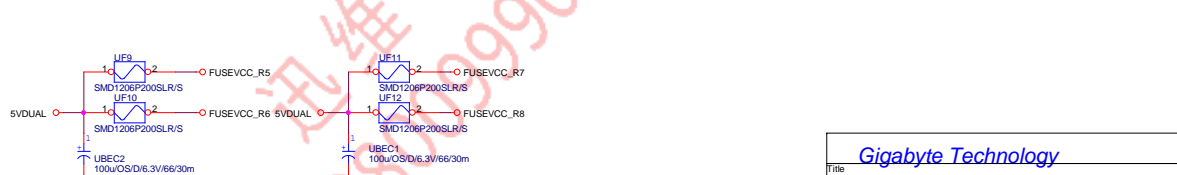
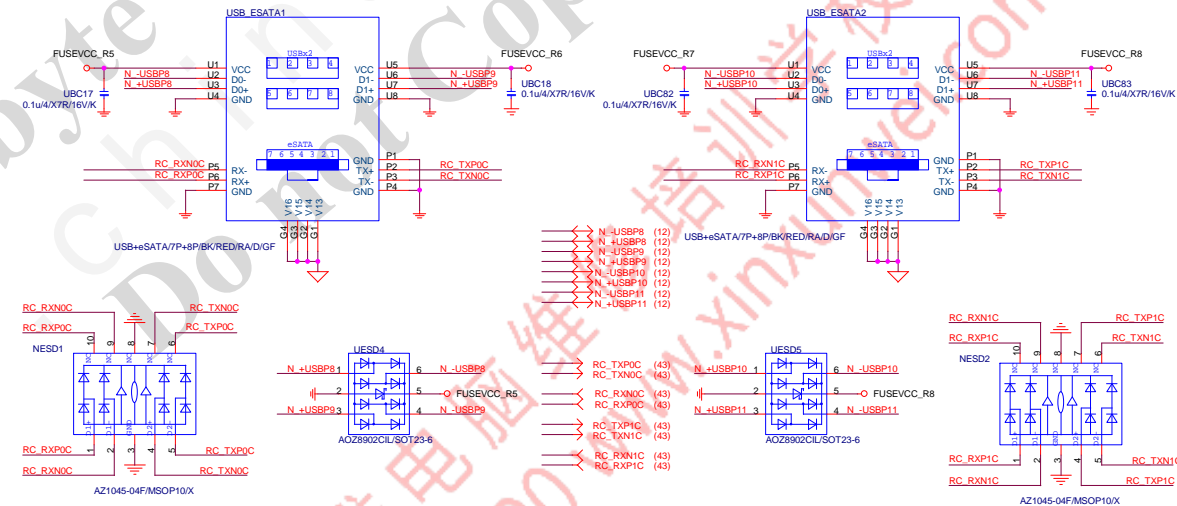








eSATA+USB



Gigabyte Technology

LEWISVILLE_82579

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PCH GPIO



PIN NAME	POWER WELL	USAGE	AFTER PLTRST	S3/S5	NOTES
GP[0]	VCC3	-ICH_PSI	IN		8.2K P/U TO VCC3
GP[1]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[2]	VCC3	-PIRQE	IN		8.2K P/U TO VCC3
GP[3]	VCC3	-PIRQF	IN		8.2K P/U TO VCC3
GP[4]	VCC3	-PIRQG	IN		8.2K P/U TO VCC3
GP[5]	VCC3	-PIRQH	IN		8.2K P/U TO VCC3
GP[6]	VCC3	GPIO6	IN		8.2K P/U TO VCC3
GP[7]	VCC3	GPIO7	IN		8.2K P/U TO VCC3
GP[8]	3VDUAL	GPIO8	OUT		8.2K P/U TO 3VDUAL
GP[9]	3VDUAL	-USBOC5	IN		USB OVER-CURRENT
GP[10]	3VDUAL	-USBOC6	IN		USB OVER-CURRENT
GP[11]	3VDUAL	GPIO11	IN		8.2K P/U TO 3VDUAL
GP[12]	3VDUAL	GPIO12	OUT		8.2K P/U TO 3VDUAL
GP[13]	3VDUAL	-LPCPME	IN		8.2K P/U TO 3VDUAL
GP[14]	3VDUAL	GPIO14	IN		8.2K P/U TO 3VDUAL
GP[15]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL (N/A)
GP[16]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[17]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[18]	VCC3	-SPI_WP0	OUT		8.2K P/U TO VCC3
GP[19]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[20]	VCC3	-SPI_WP1	OUT		8.2K P/U TO VCC3
GP[21]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[22]	VCC3	SPARE	IN		1K P/U TO VCC3
GP[23]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[24]	3VDUAL	-SKTOC	IN		8.2K P/U TO 3VDUAL (N/A)
GP[25]	3VDUAL	GPIO25	OUT		8.2K P/U TO 3VDUAL
GP[26]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL
GP[27]	3VDUAL_PCH	SPARE	OUT		8.2K P/U TO 3VDUAL_PCH
GP[28]	3VDUAL	GPIO28	OUT		8.2K P/U TO 3VDUAL
GP[29]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL (N/A)
GP[30]	3VDUAL	-S_WARN	OUT		CONNECT TO -S_ACK
GP[31]	3VDUAL_PCH	SPARE	IN		8.2K P/U TO 3VDUAL_PCH(N/A)
GP[32]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[33]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[34]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[35]	VCC3	-ACZ_DET	OUT		8.2K P/U TO VCC3
GP[36]	VCC3	SPARE	IN		8.2K P/U TO VCC3(N/A)
GP[37]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[38]	VCC3	SPARE	IN		1K P/U TO VCC3

PIN NAME	POWER WELL	USAGE	AFTER PLTRST	S3/S5	NOTES
GP[39]	VCC3	SPARE	IN		1K P/U TO VCC3
GP[40]	3VDUAL	-USBOC1	IN		USB OVER-CURRENT
GP[41]	3VDUAL	-USBOC2	IN		USB OVER-CURRENT
GP[42]	3VDUAL	-USBOC3	IN		USB OVER-CURRENT
GP[43]	3VDUAL	-USBOC4	IN		USB OVER-CURRENT
GP[44]	3VDUAL	SPARE	IN		1K P/U TO 3VDUAL
GP[45]	3VDUAL	SPARE	IN		1K P/U TO 3VDUAL
GP[46]	3VDUAL	SPARE	IN		1K P/U TO 3VDUAL
GP[47]	3VDUAL	SPARE	IN		1K P/U TO 3VDUAL
GP[48]	VCC3	SPARE	IN		1K P/U TO VCC3
GP[49]	VCC3	SPARE	IN		8.2K P/U TO VCC3
GP[50]	VCC3	-REQ1	OUT		8.2K P/U TO VCC3
GP[51]	VCC3	-GNT1	OUT		1K P/U TO VCC3
GP[52]	VCC3	-REQ2	OUT		8.2K P/U TO VCC3
GP[53]	VCC3	-GNT2	IN		8.2K P/U TO VCC3(N/A)
GP[54]	VCC3	-REQ3	IN		8.2K P/U TO VCC3
GP[55]	VCC3	-GNT3	IN		8.2K P/U TO VCC3(N/A)
GP[56]	3VDUAL	SPARE	IN		8.2K P/U TO 3VDUAL
GP[57]	3VDUAL	SPARE	IN		8.2K P/U TO 3VDUAL
GP[58]	3VDUAL	SML1CLK	OUT		8.2K P/U TO 3VDUAL
GP[59]	3VDUAL	-USBOC0	IN		USB OVER-CURRENT
GP[60]	3VDUAL	SML0ART	OUT		1K P/U TO 3VDUAL
GP[61]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL
GP[62]	3VDUAL	SUSCLK	OUT		8.2K P/U TO 3VDUAL(N/A)
GP[63]	3VDUAL	-SLP_S5	OUT		8.2K P/U TO 3VDUAL(N/A)
GP[64]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[65]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[66]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[67]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[68]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[69]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[70]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[71]	VCC3	SPARE	OUT		8.2K P/U TO VCC3
GP[72]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL
GP[73]	3VDUAL	SPARE	OUT		8.2K P/U TO 3VDUAL
GP[74]	3VDUAL	SML1ART	OUT		1K P/U TO 3VDUAL
GP[75]	3VDUAL	SML1DAT	IN/OUT		8.2K P/U TO 3VDUAL

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