

Wimbledon AX3/5 BLOCK DIAGRAM



PCB STACK UP

6L UMA CO-LAY DIS

LAYER 1 : TOP
LAYER 2 : SGND
LAYER 3 : IN1
LAYER 4 : IN2
LAYER 5 : VCC
LAYER 6 : BOT

SYSTEM CHARGER (ISL6251AHZ-T)
PAGE 25

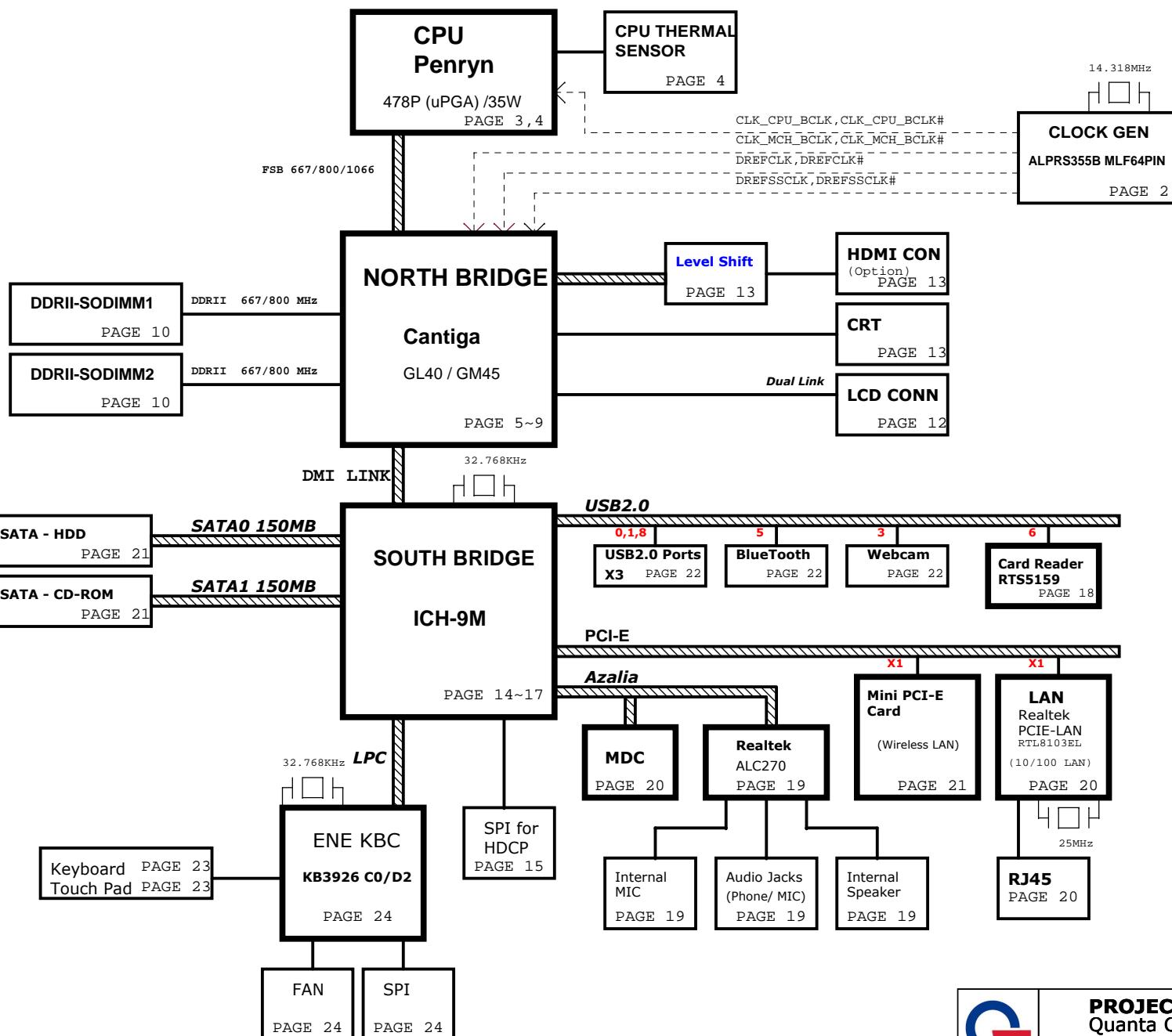
SYSTEM POWER (RT8206BGQW)
PAGE 26

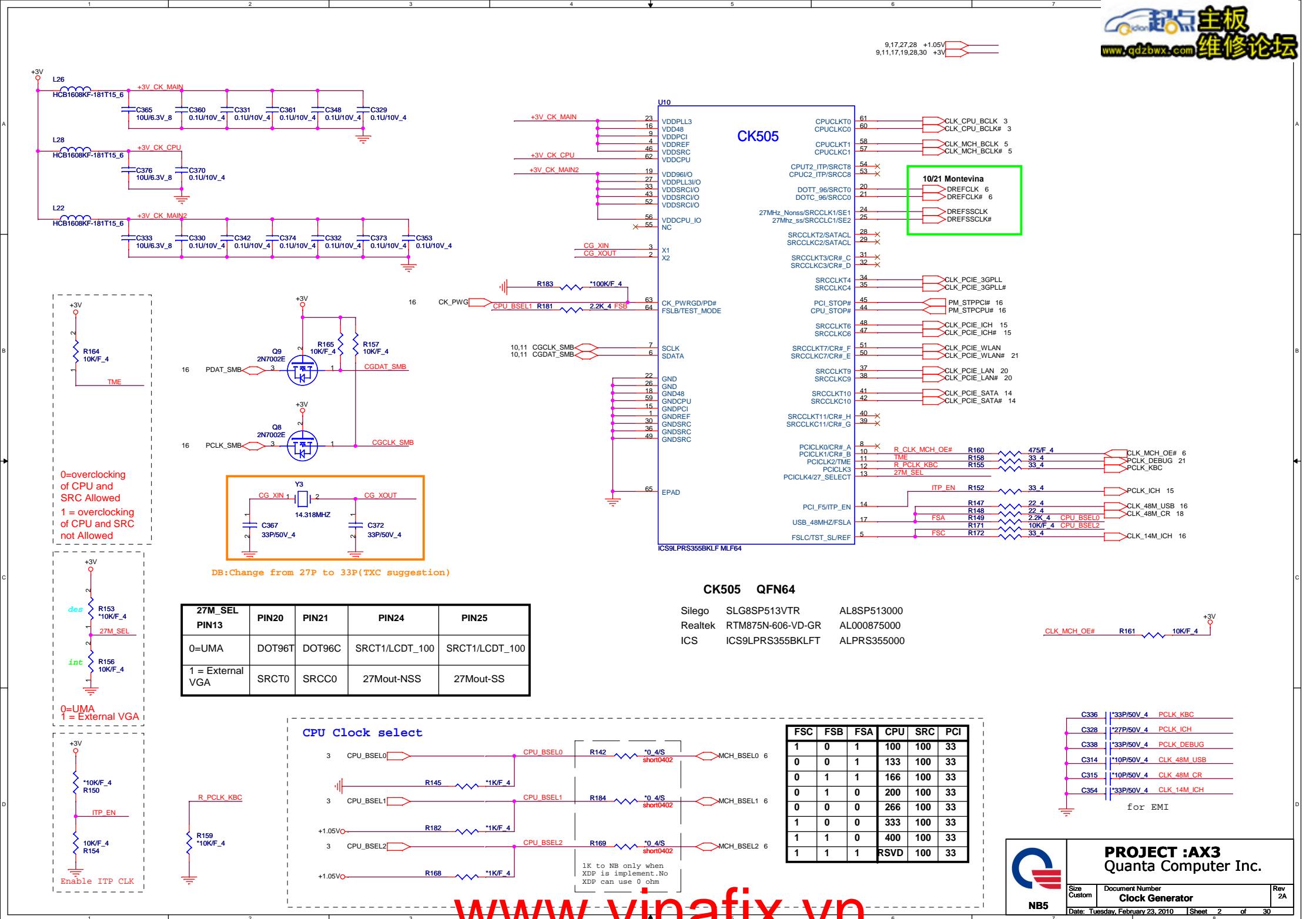
VCCP +1.05V (RT8209AGQW)
PAGE 27

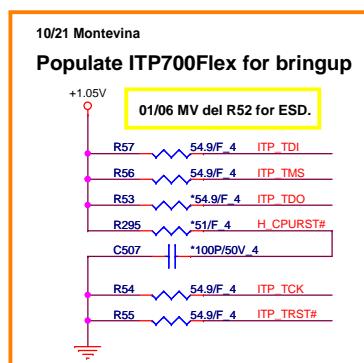
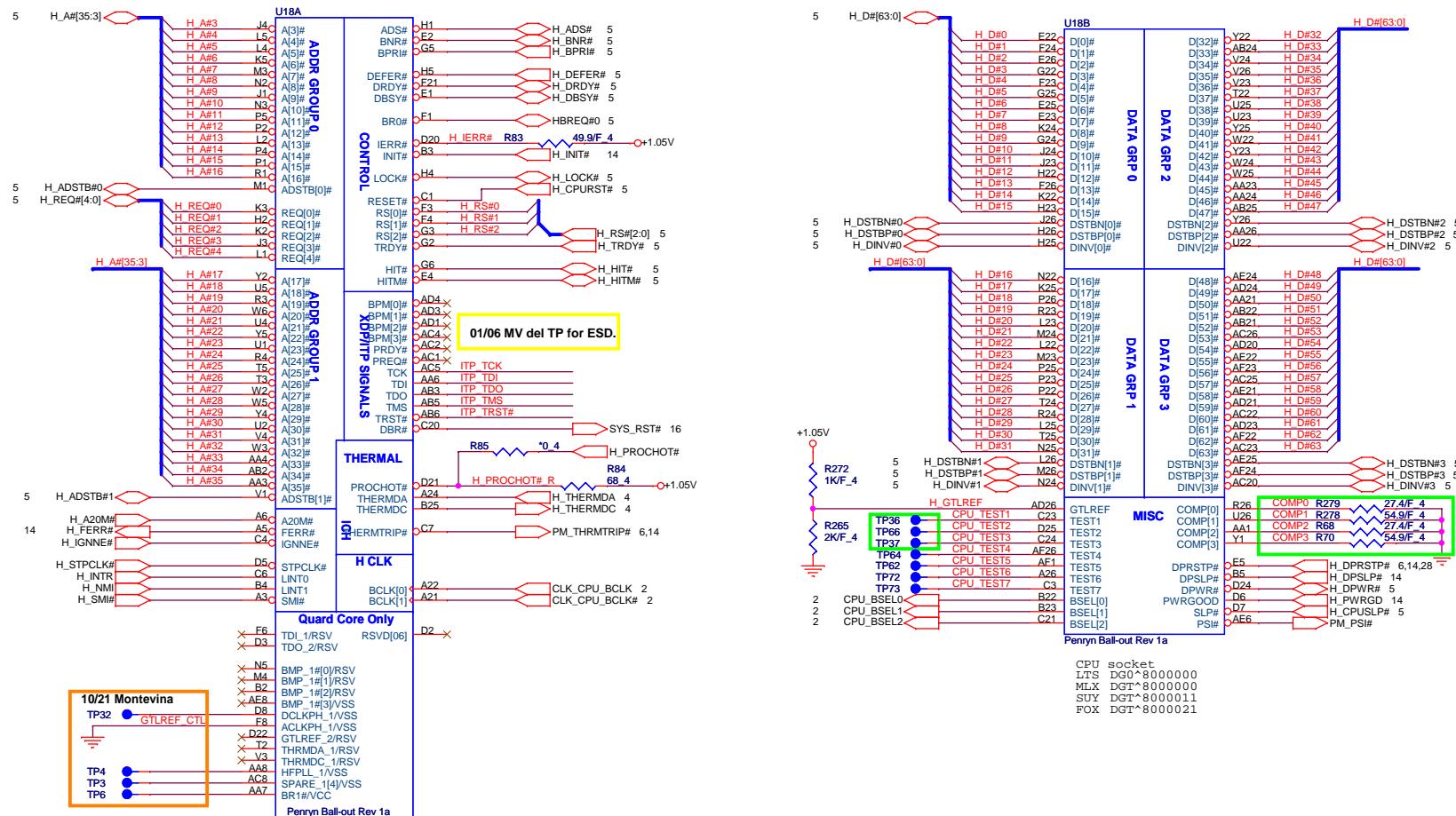
CPU CORE (ISL6262ACRZ-T)
PAGE 28

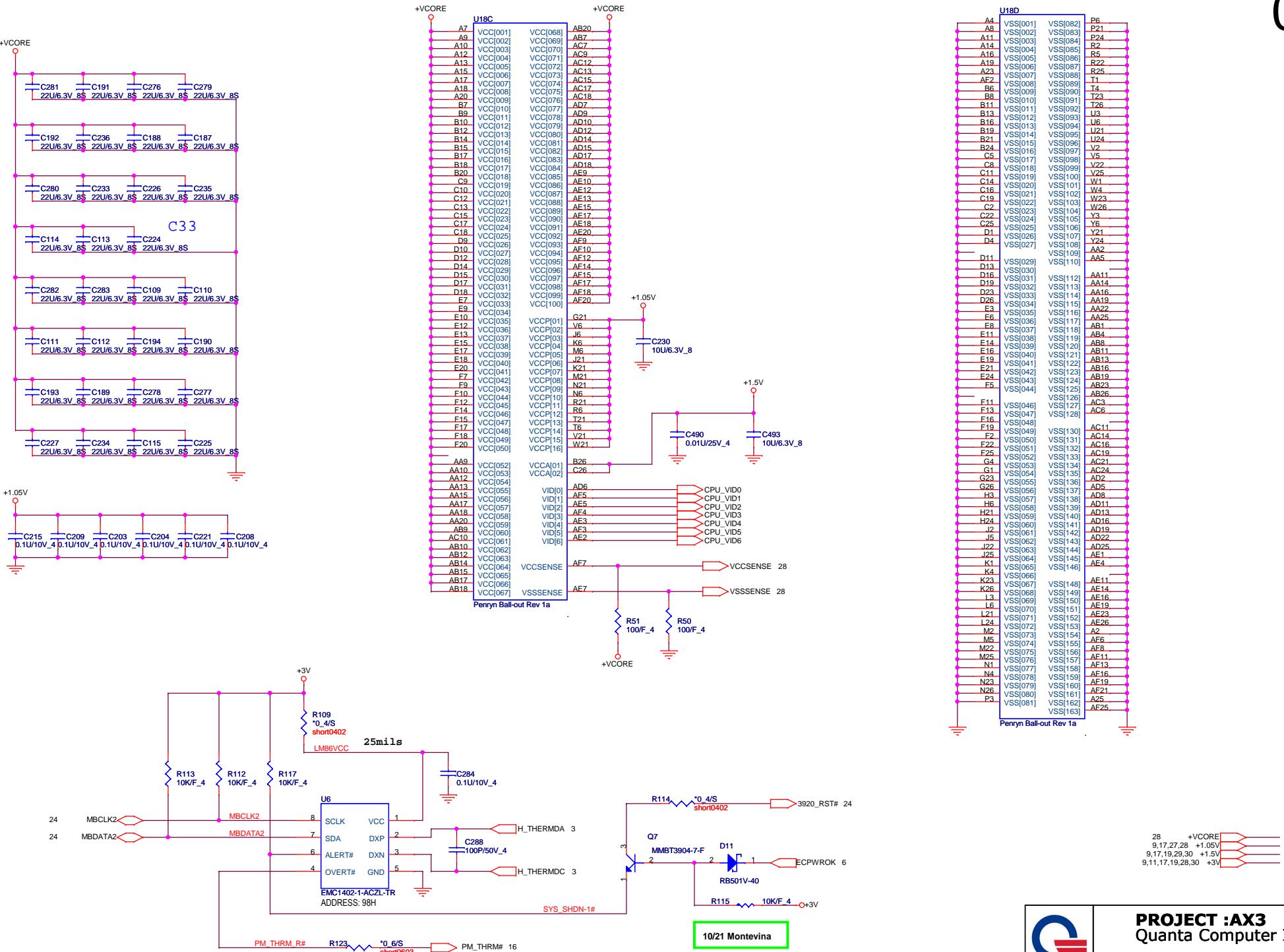
DDR II SMDDR +1.8VSUS
(RT8207AGQW)
PAGE 29

SYSTEM DISCHARGER
PAGE 30









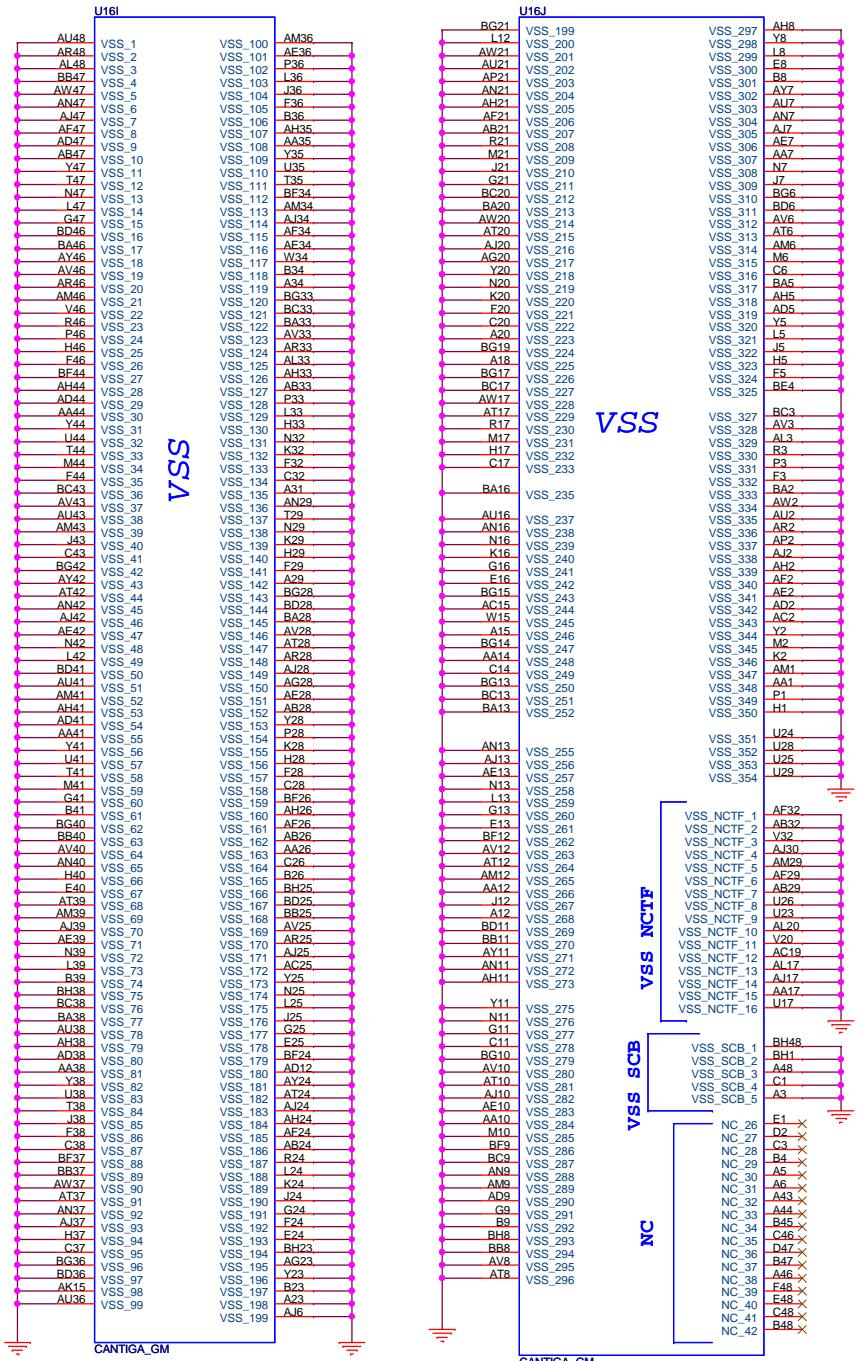
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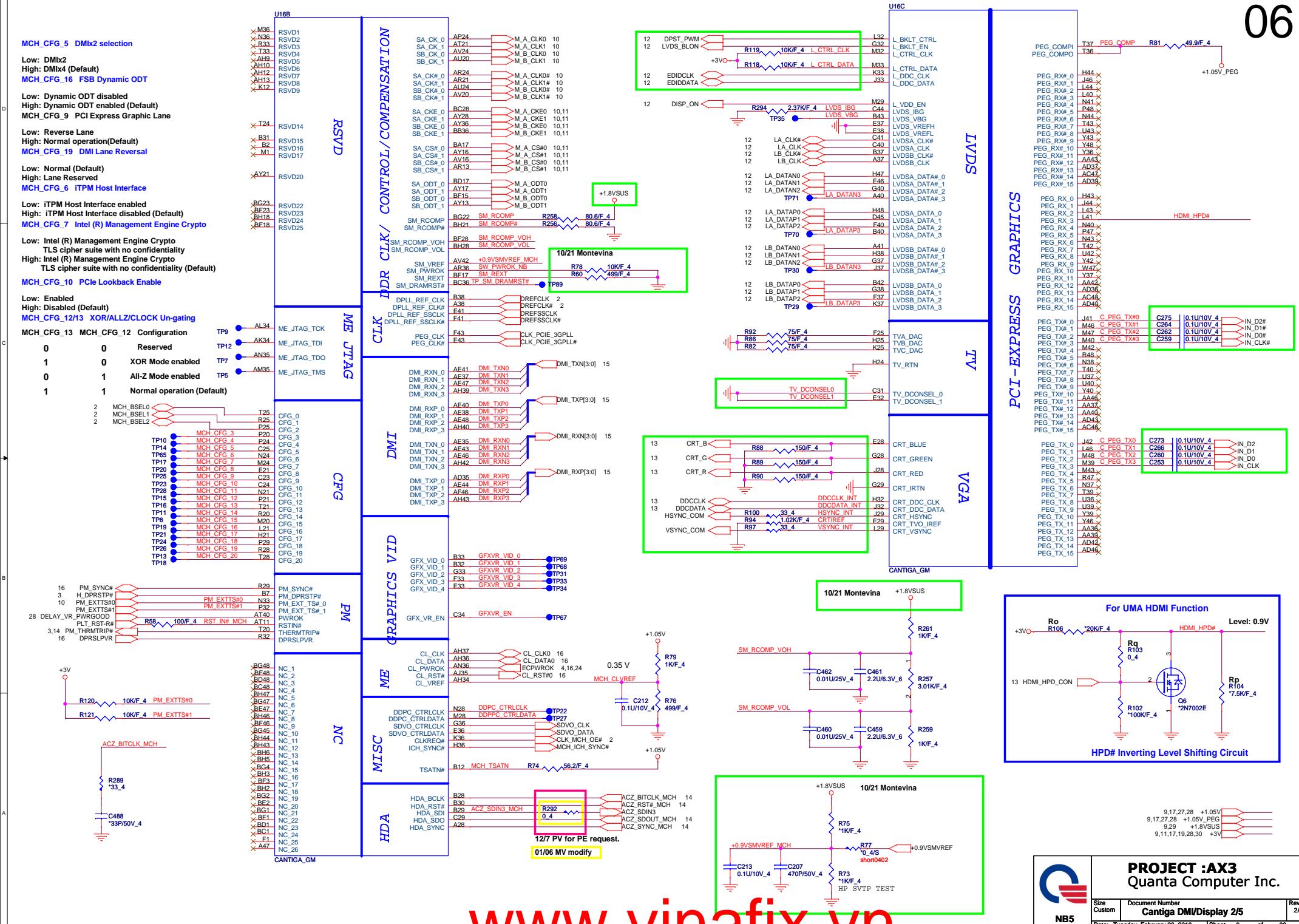


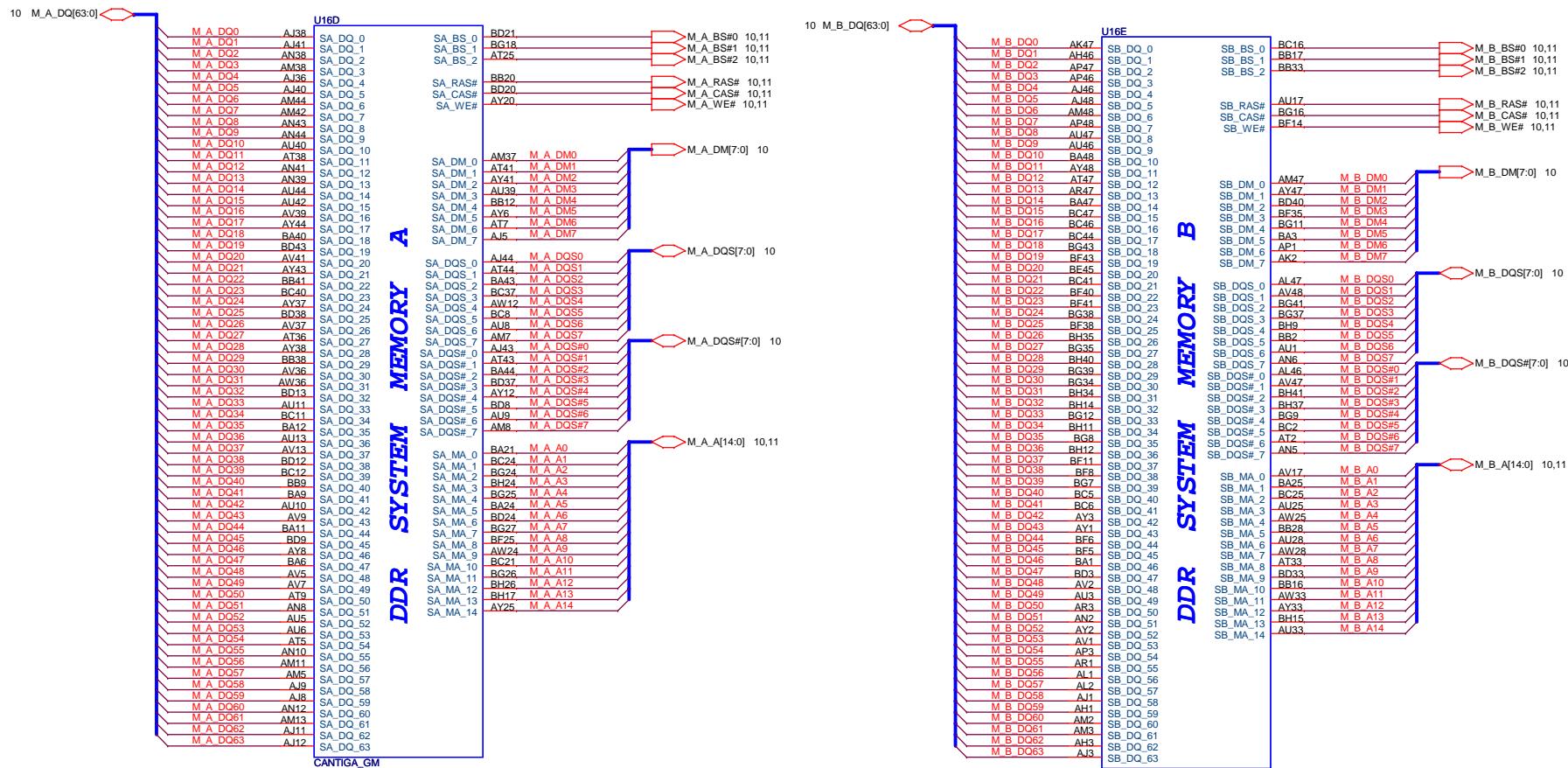
PROJECT :AX3
Quanta Computer Inc.

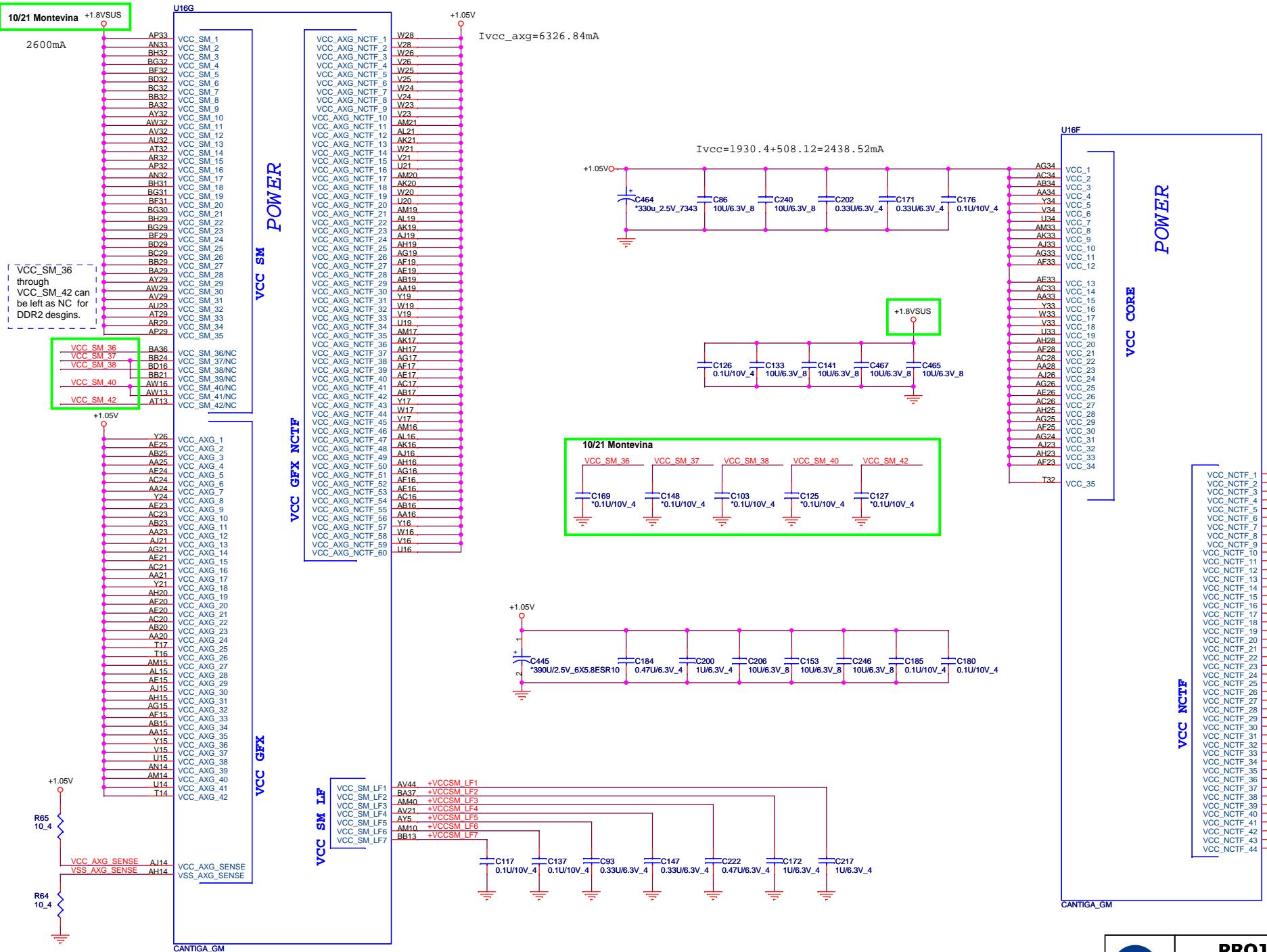
Size Custom	Document Number	Rev 2A
	Penry & TH Monitor 2/2	

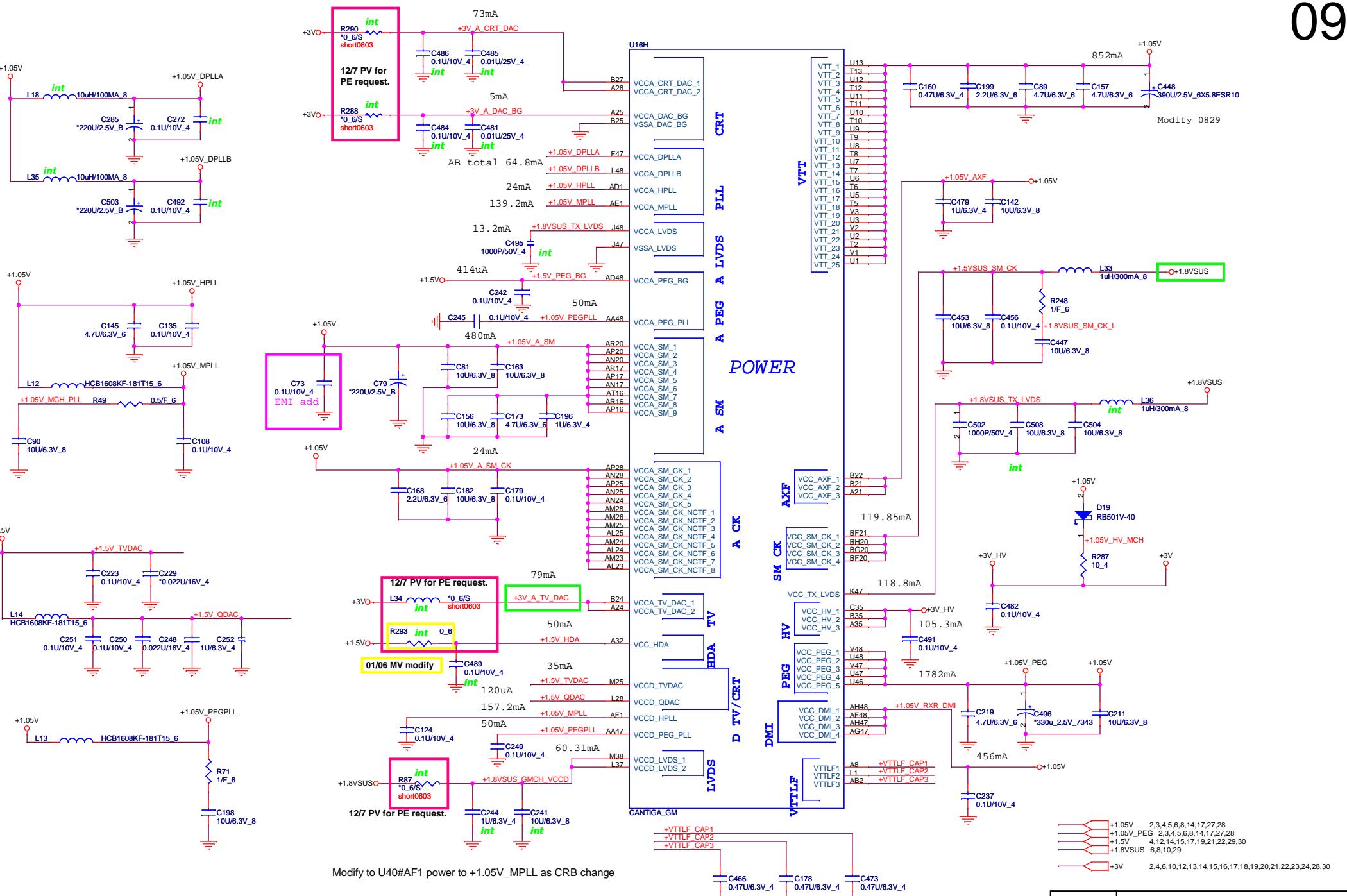
Date: Tuesday, February 23, 2010 Sheet 4 of 30





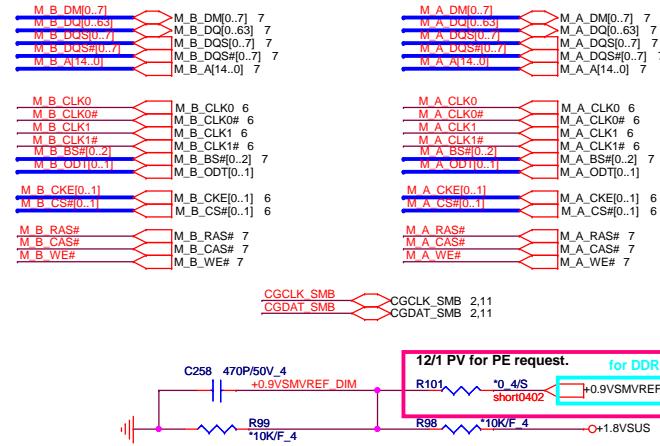
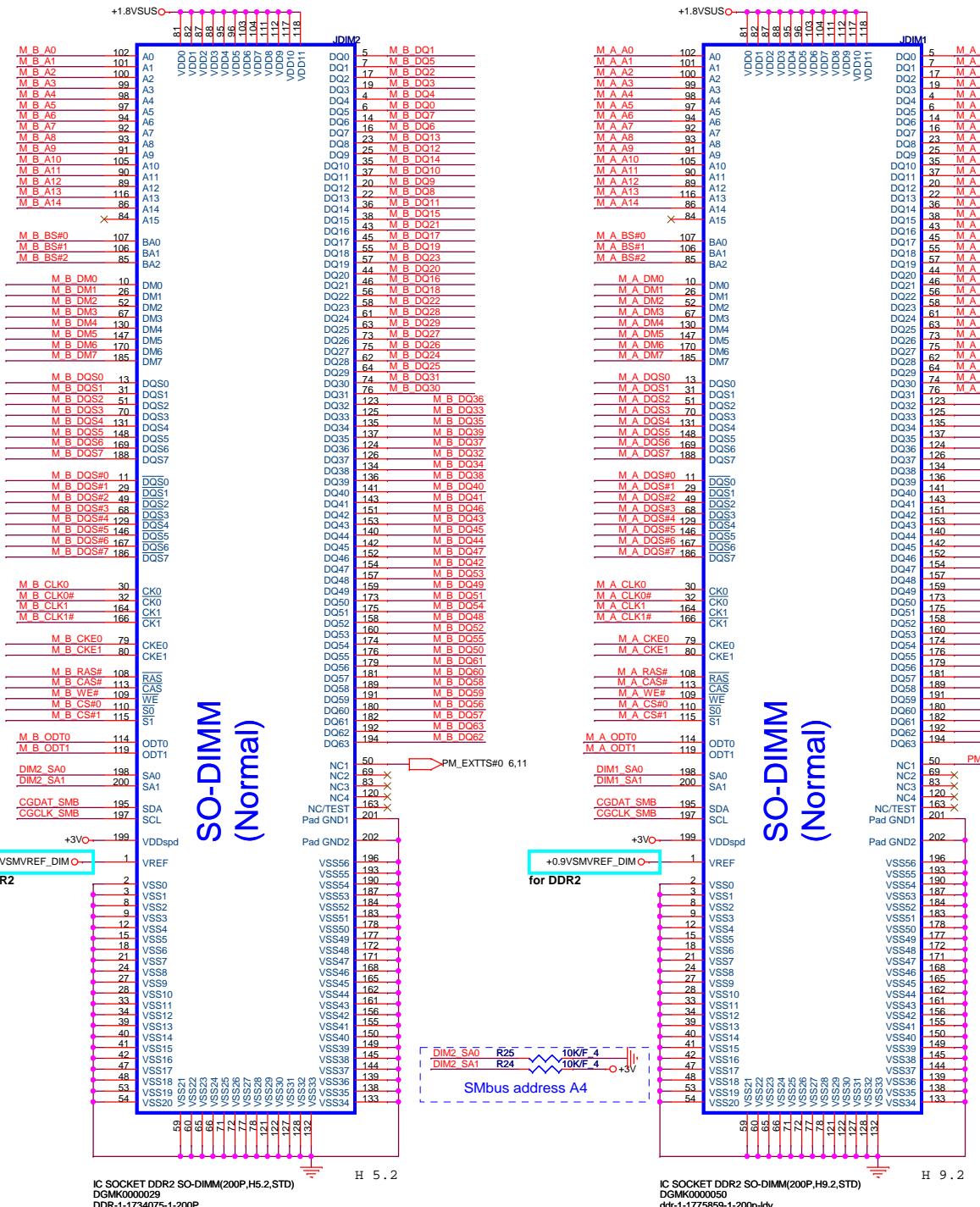






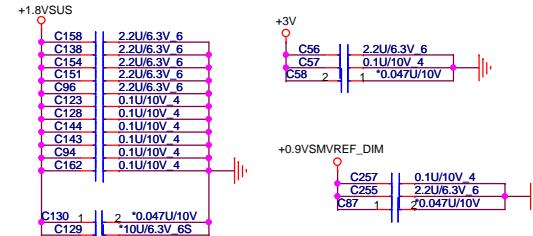
PROJECT :AX3
Quanta Computer Inc.

Size Custom	Document Number	Rev 2A
NB5	Cantiga Power 5/5	



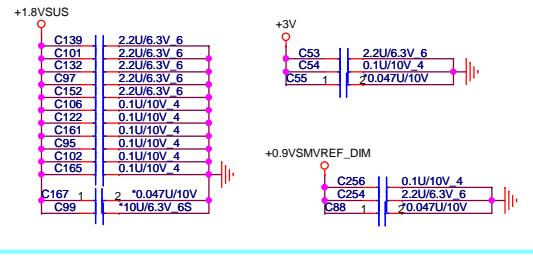
Place these Caps near So-Dim

Some Projects replace 10UF 0805 by 4.7UF 0603
It can cost down 30%



Place these Caps near So-Dimm2

Some Projects replace 10UF 0805 by 4.7UF 0603
It can cost down 30%



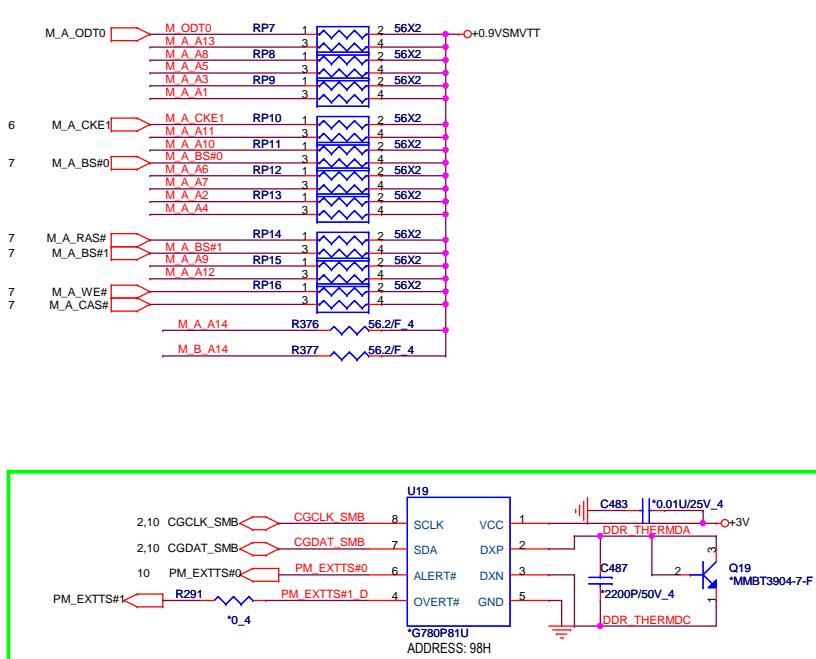
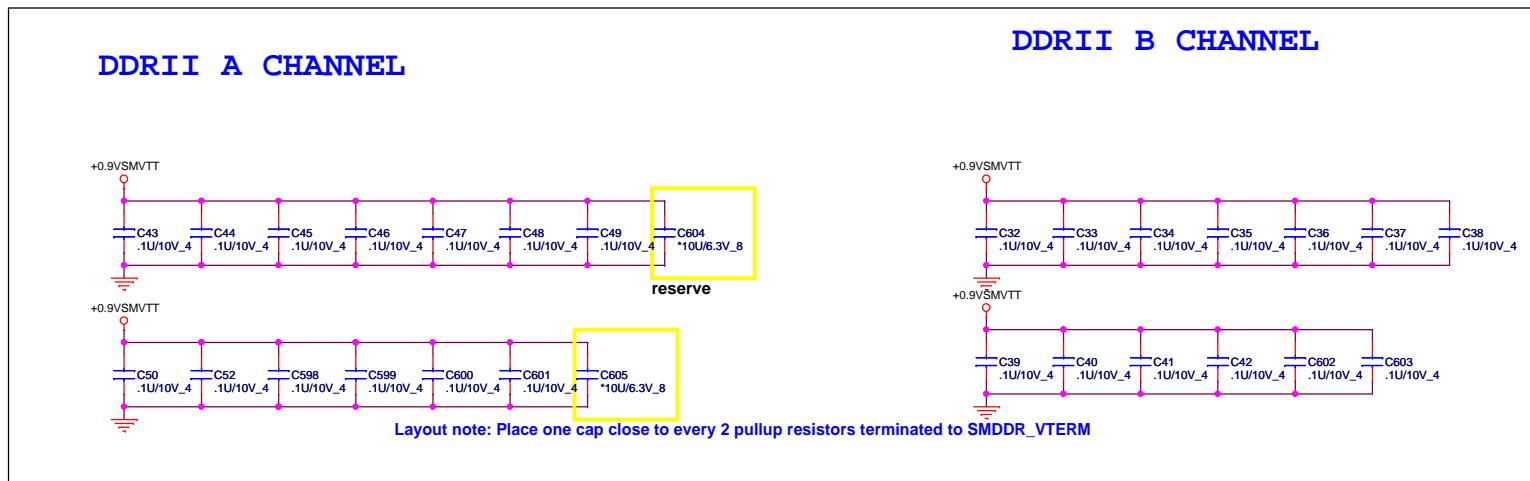
PROJECT :AX3
Quanta Computer Inc.

Document Number
DDR2 DIMM

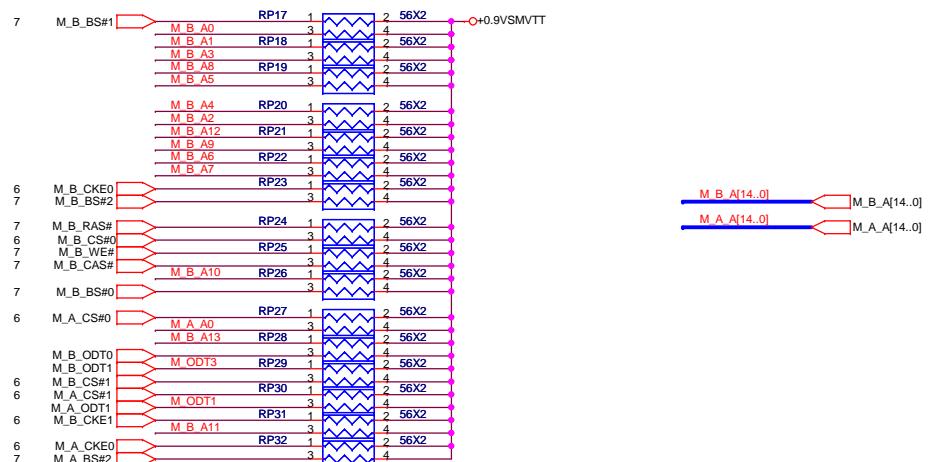
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Rev 2A

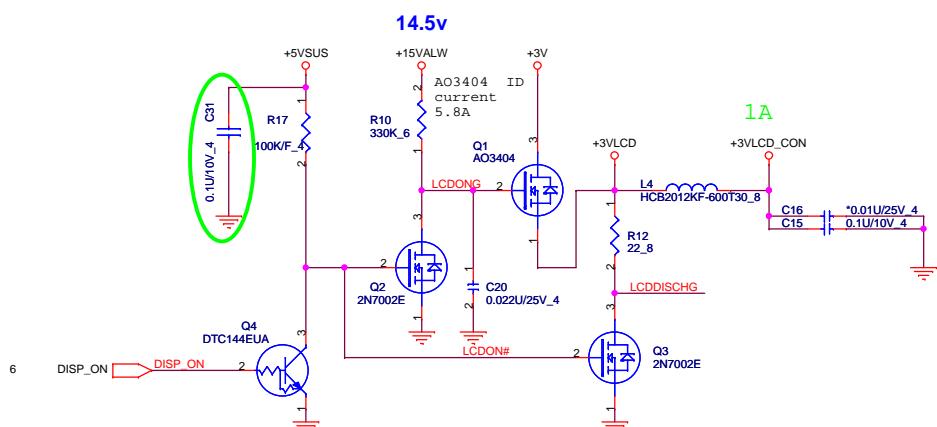
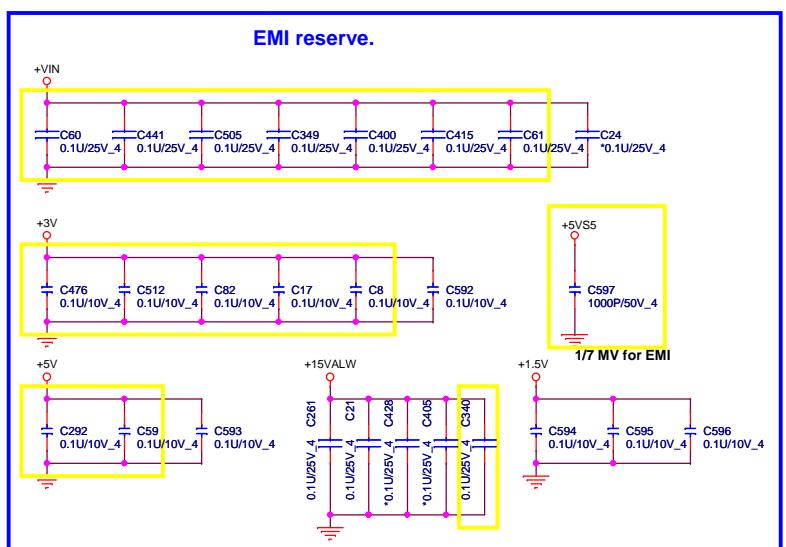
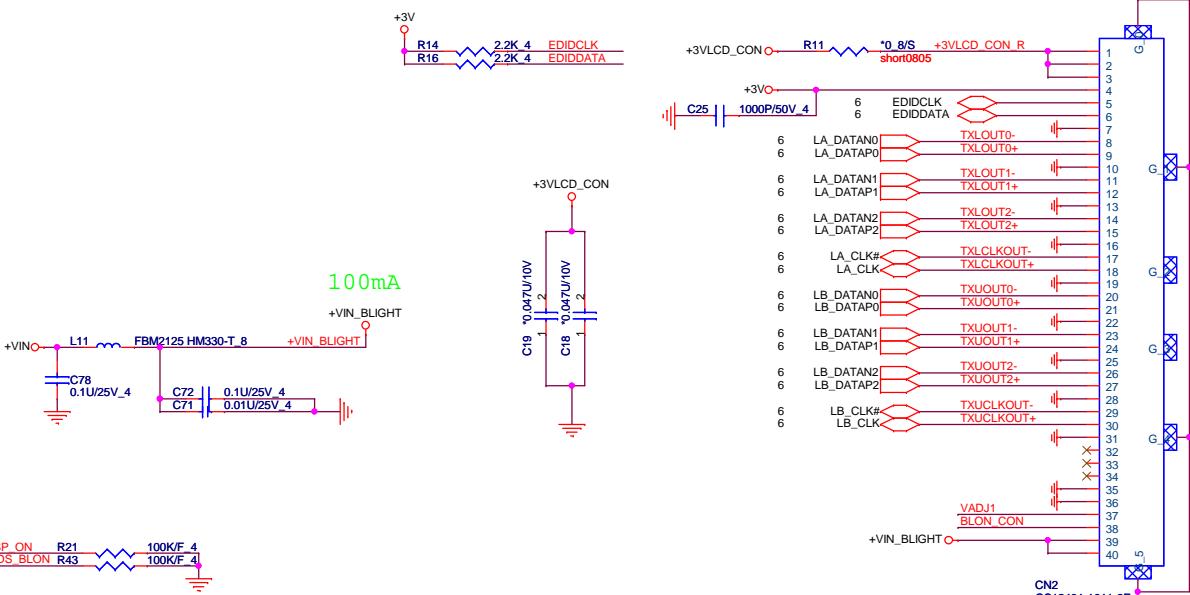
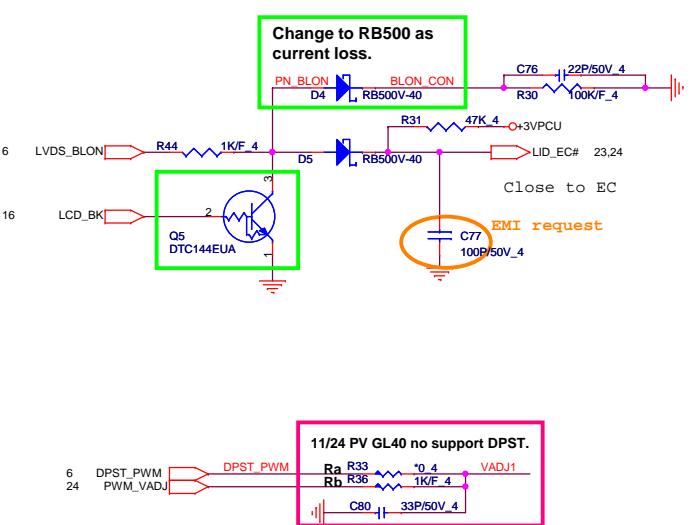
DDRII DUAL CHANNEL A,B.



+0.9VSMVTT 29
+3V 2,4,6,10,12,13,14,15,16,17,18,19,20,21,22,23,24,28,30



LID Switch



9,17,19,29,30 → +1.5V
9,11,17,19,28,30 → +3V
25,26,30 → +3VPCU
17,19,30 → +5V
30 → +5VSUS
26,30 → +15VALW
25,26,27,28,29,30 → +VIN

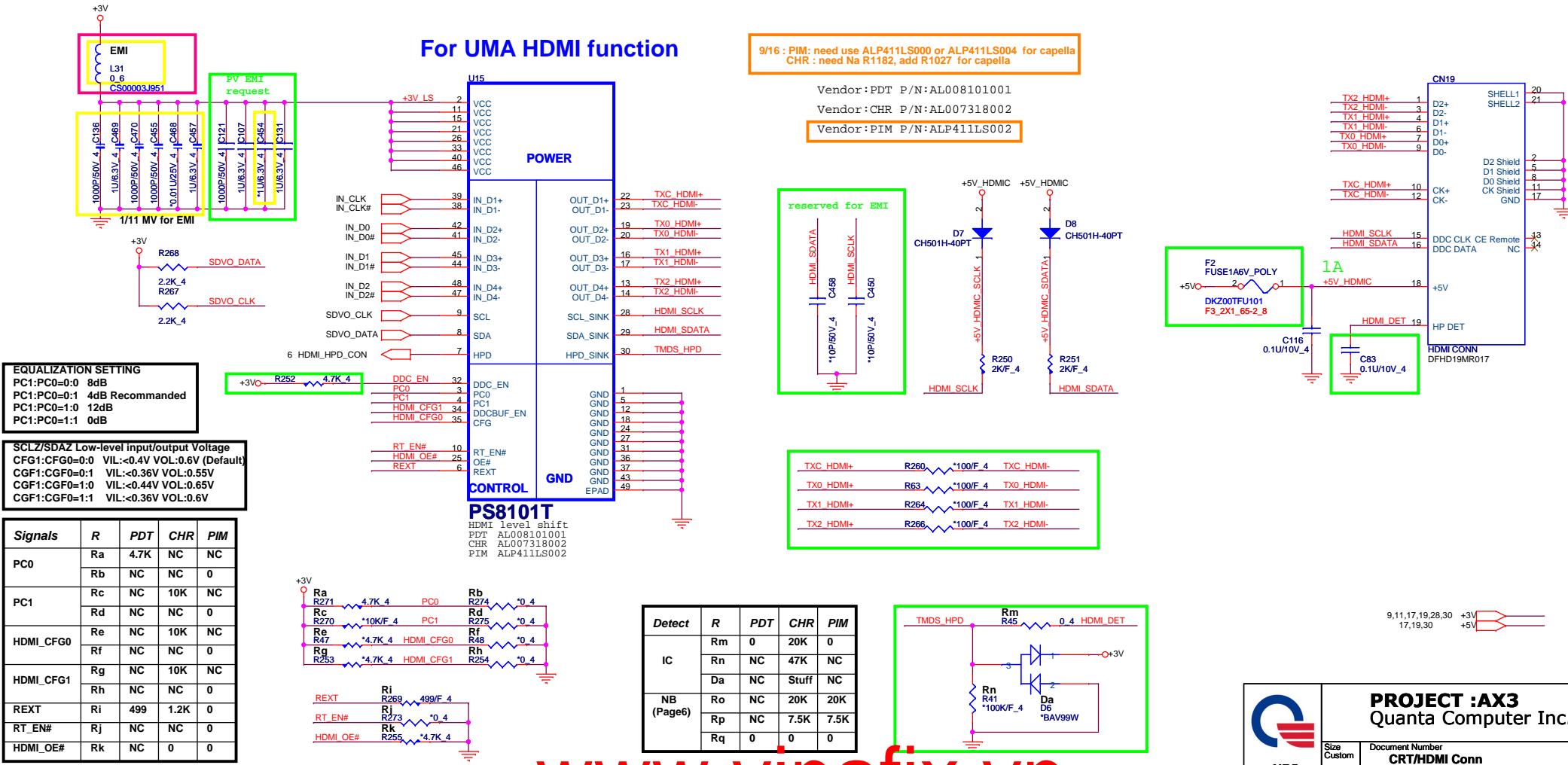
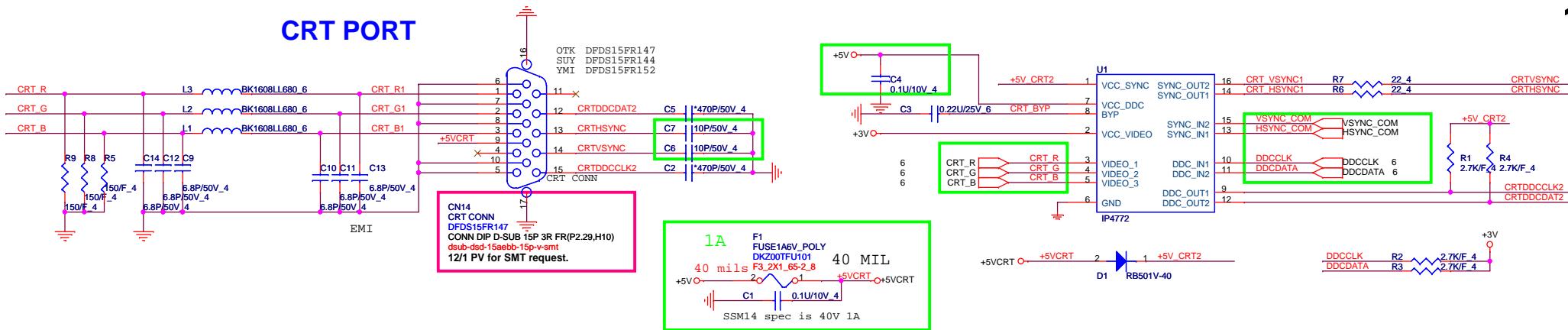


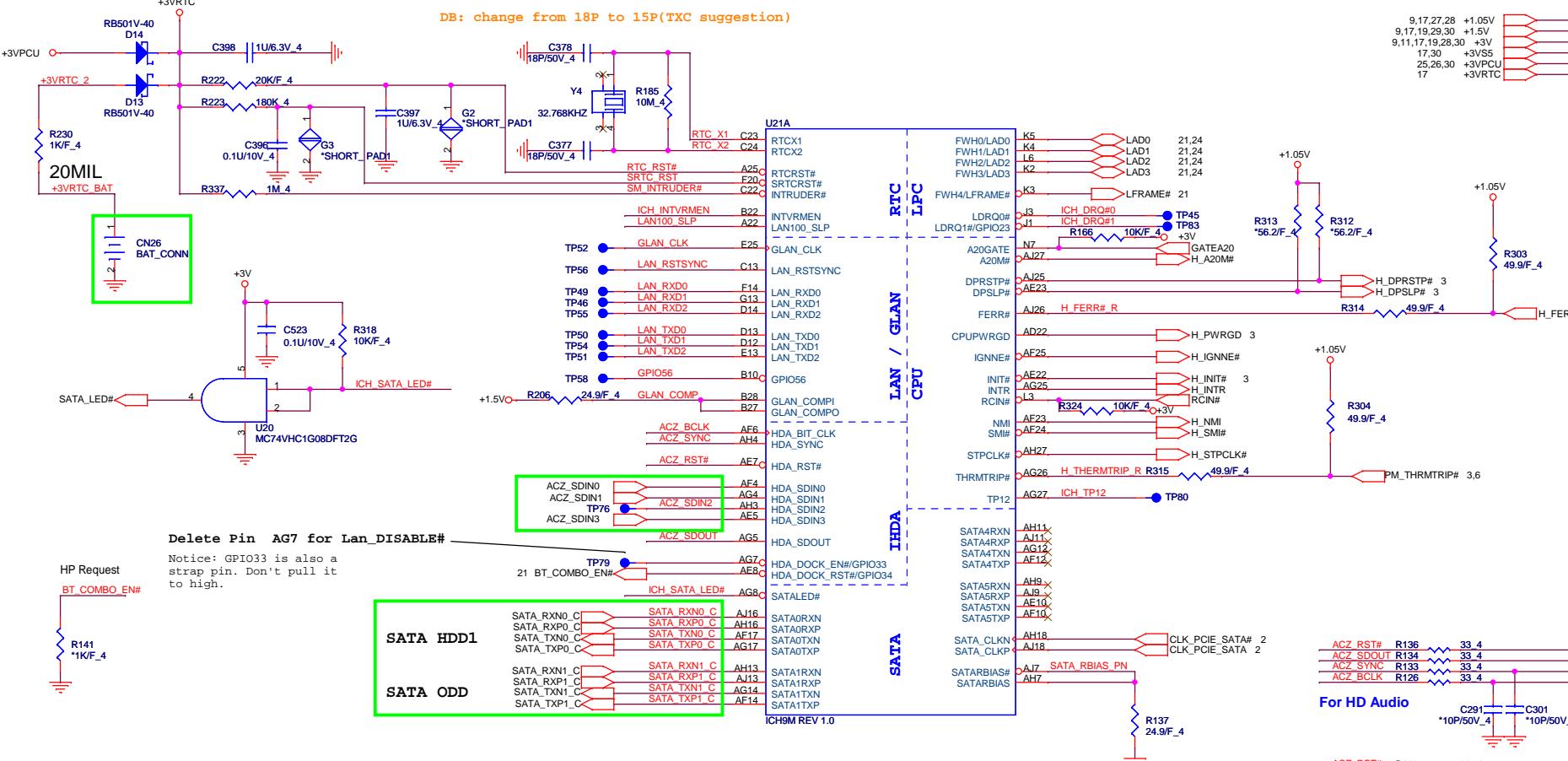
PROJECT :AX3
Quanta Computer Inc.

Size Custom	Document Number LCD CONN/LID	Rev 2A
NB5		

Date: Tuesday, February 23, 2010 Sheet 12 of 30

CRT PORT

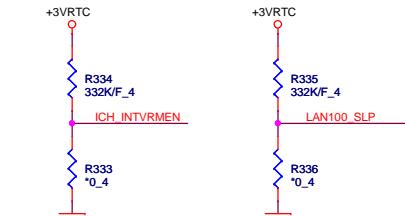




SB Strap

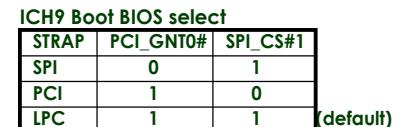
ICH9-M Internal VR
Enable strap
(Internal VR for
Vccsusl_05,VccSusl_5
and VccCLl_5)

INTVRMEN	Low = Internal VR disable High = Internal VR enable(Default)	LAN100_SLP	Low = Internal VR disable High = Internal VR enable(Default)
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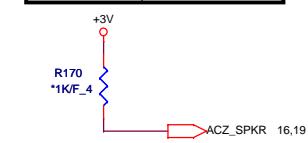


XOR Chain Entrance Str

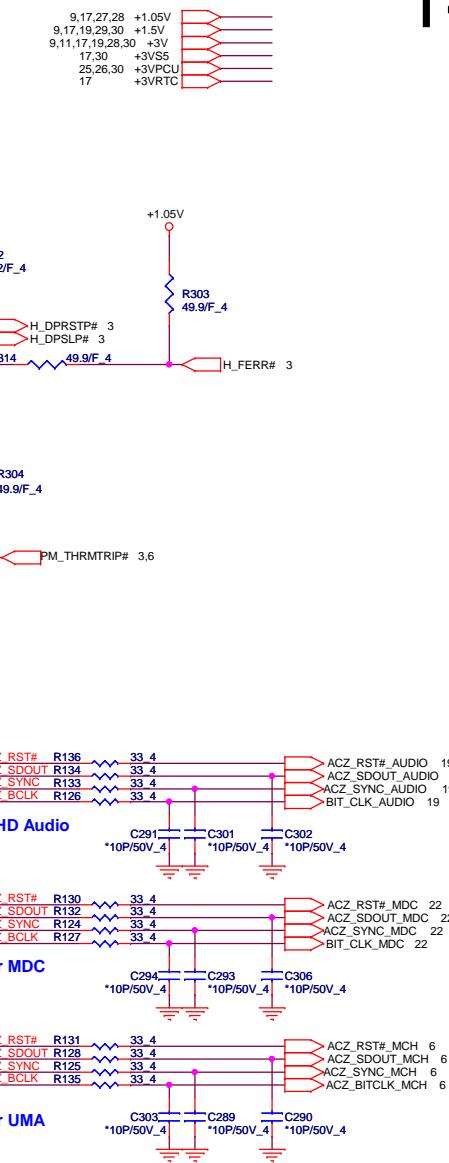
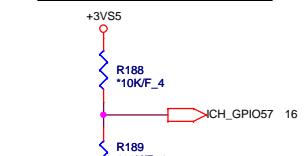
ICH_TP3	HDA_SDOUT	Description
0	0	RSVD
0	1	Enter XOR Chain
1	0	Normal opration(Default)
1	1	Set PCIE port config bit 1



No Reboot Strap	
ACZ_SPKR	Low: Default Hi: No reboot

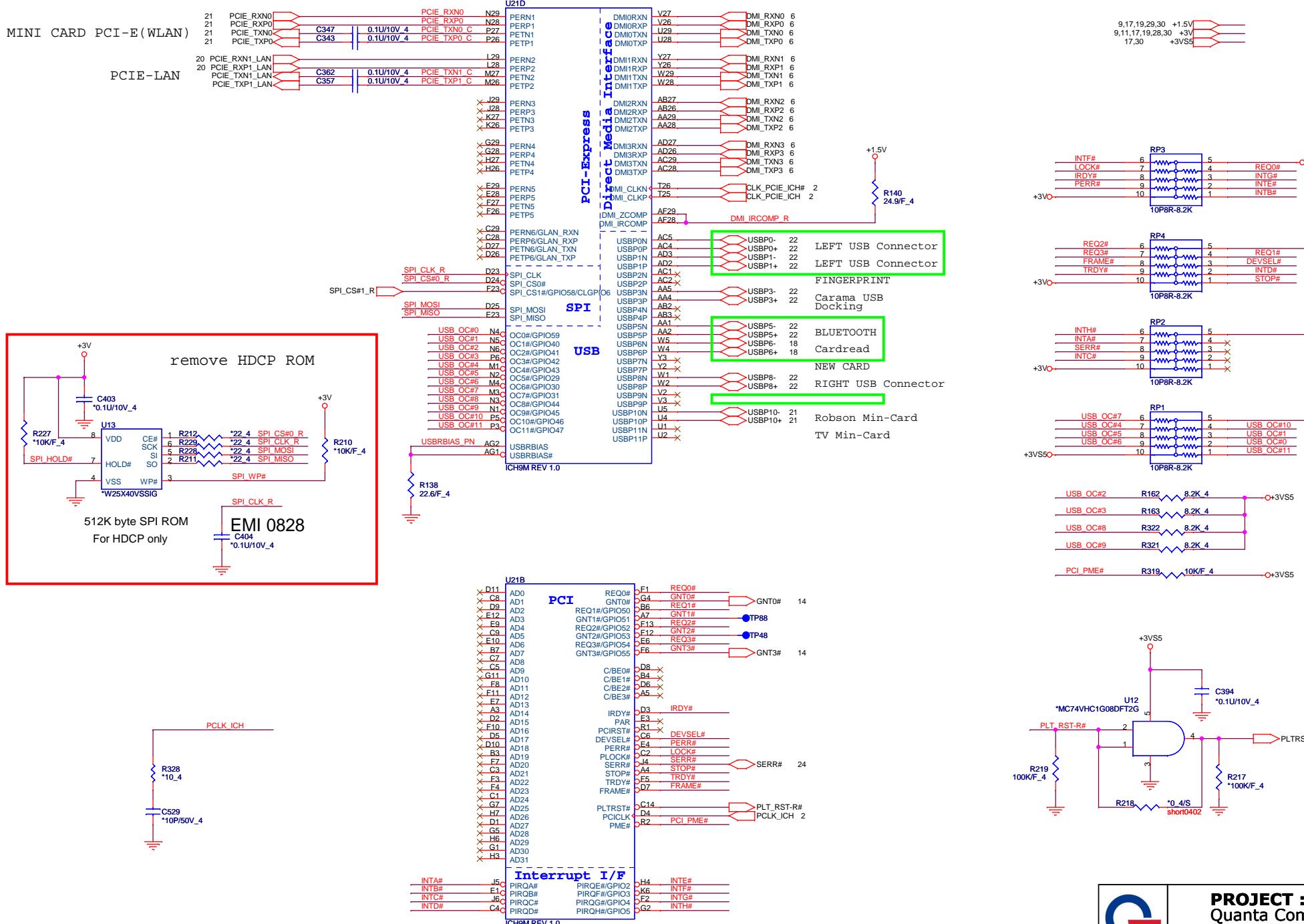


TPM physical presence	
ICH_GPIO57	Low: Default



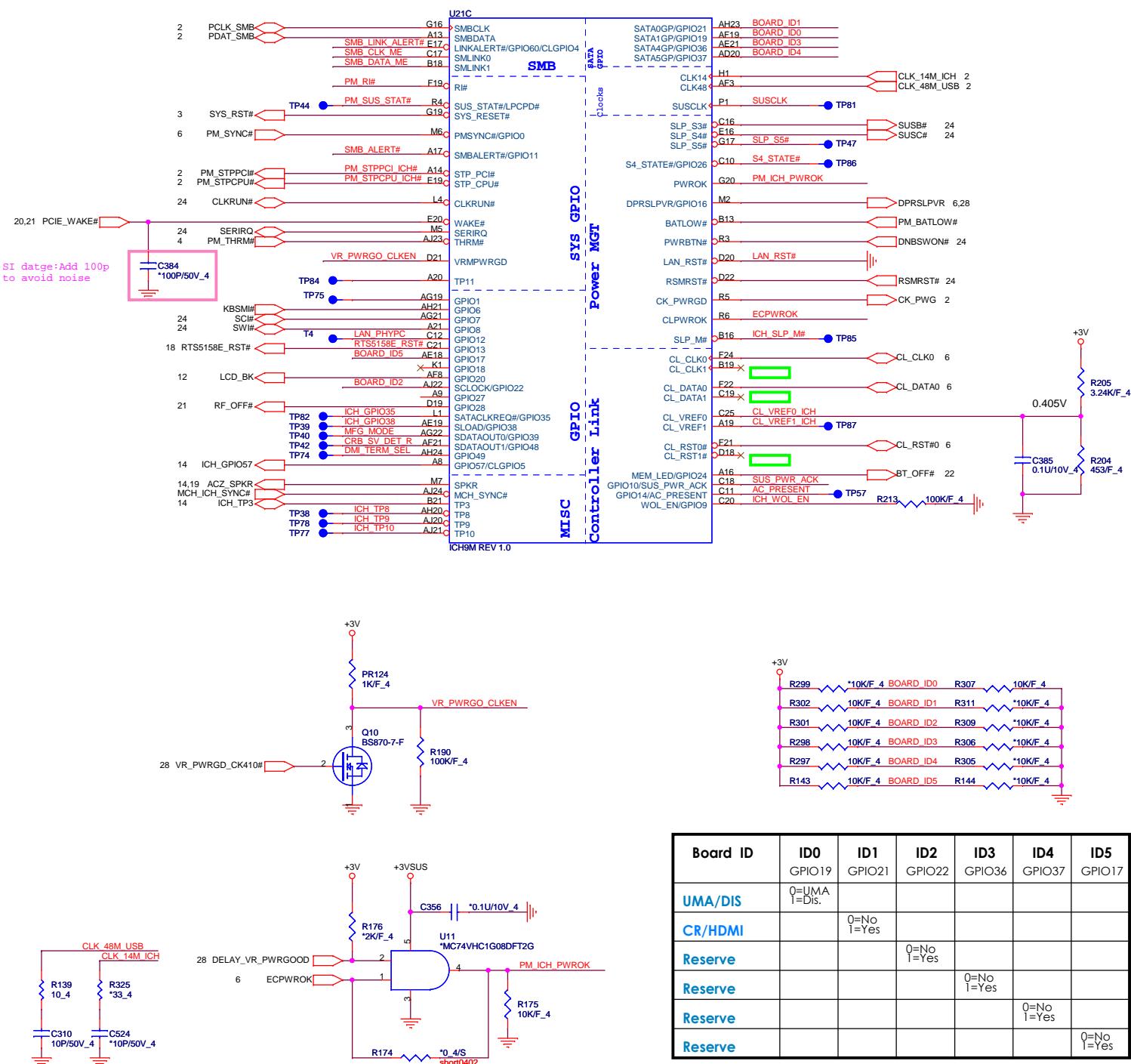
PROJECT :AX3
Quanta Computer Inc.

Document Number	ICH9-M SATA/HDA/RTC 1/4			Rev 2A
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PROJECT :AX3
Quanta Computer Inc.

Size Custom	Document Number	Rev 2A
NB5	ICH9-M DMI/PCIE/USB 2/4	Date: Tuesday, February 23, 2010 Sheet 15 of 30

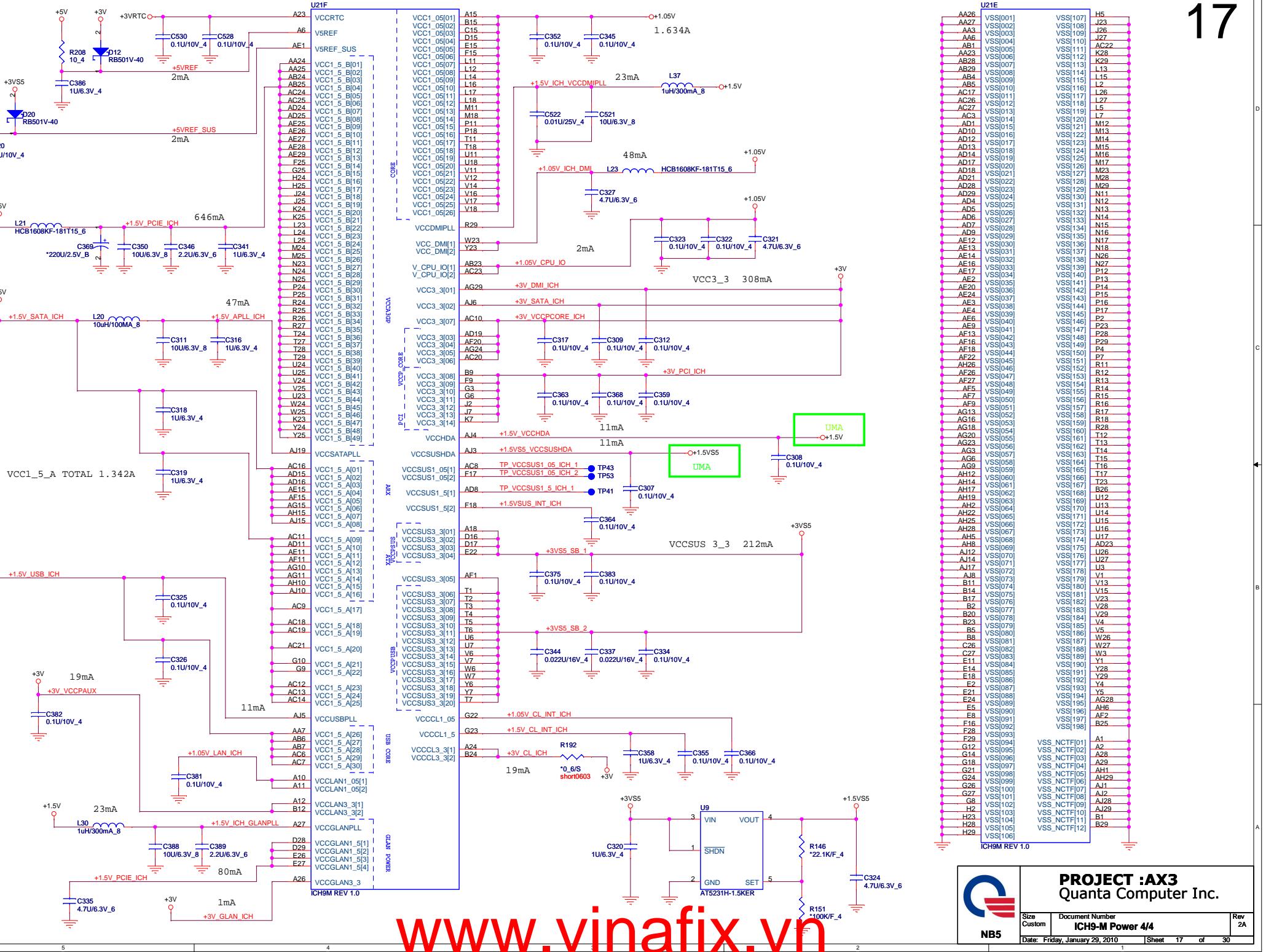


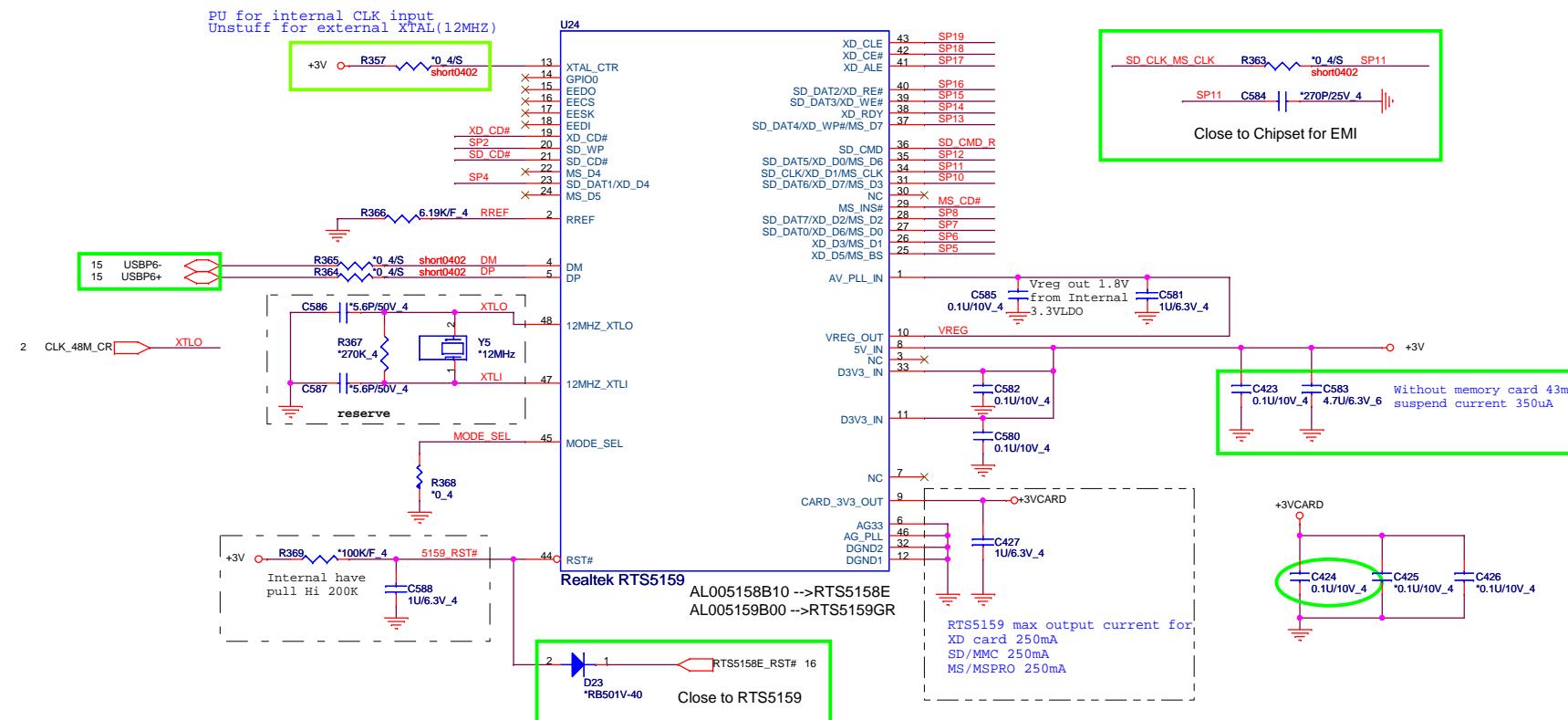
AX3 MB P/N	ID0	ID1	ID2	ID3	ID4	ID5
31AX6MB0000 (CHR)	0	1	1	1	1	1
31AX6MB0010 (PDT)	0	1	1	1	1	1
31AX6MB0020 (PIM)	0	1	1	1	1	1
31AX6MB0030	0	0	1	1	1	1

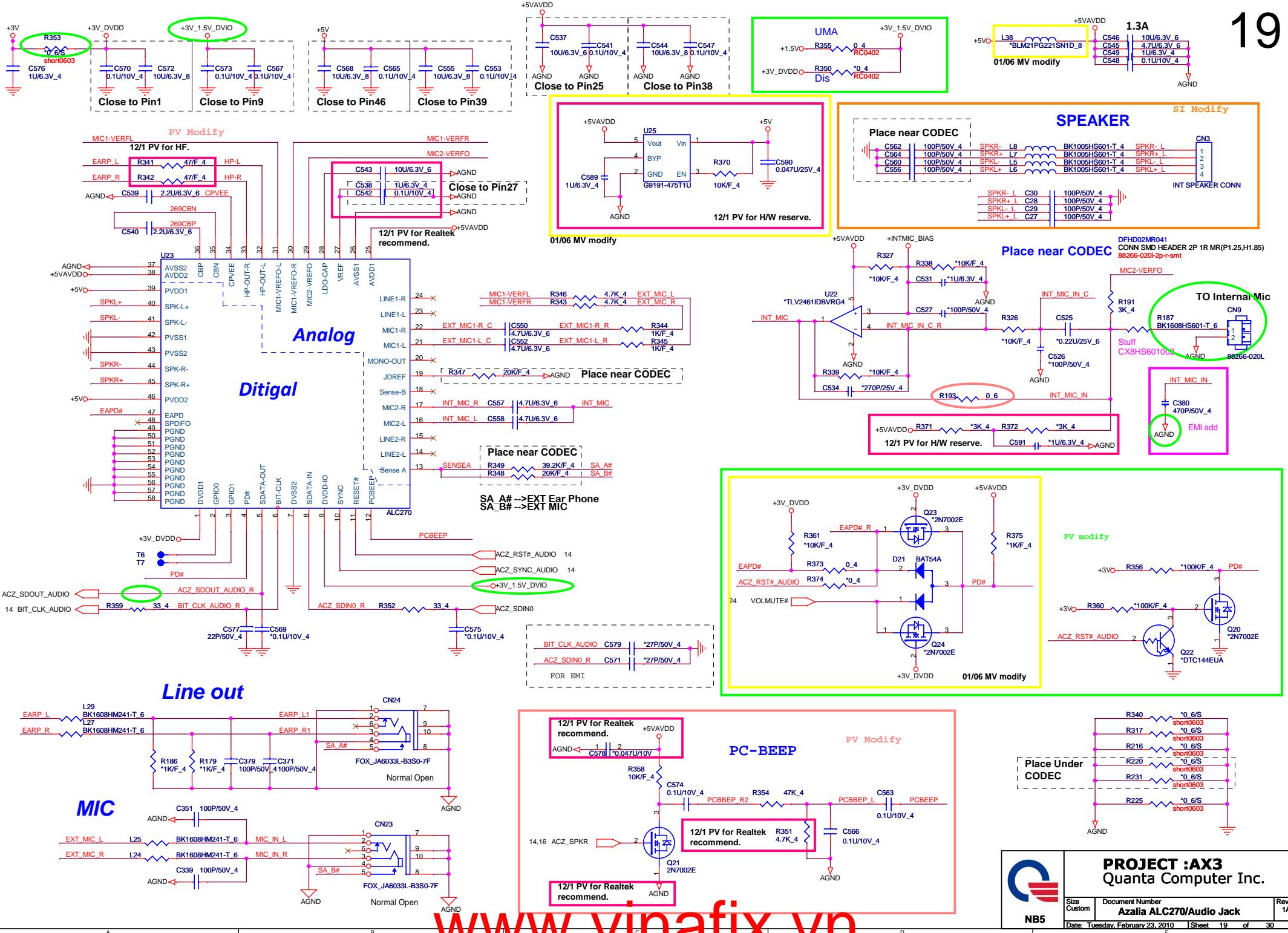


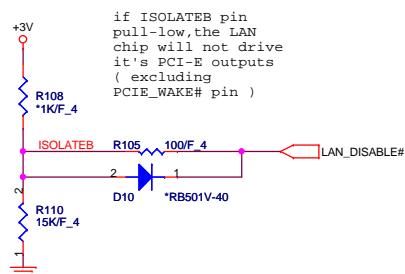
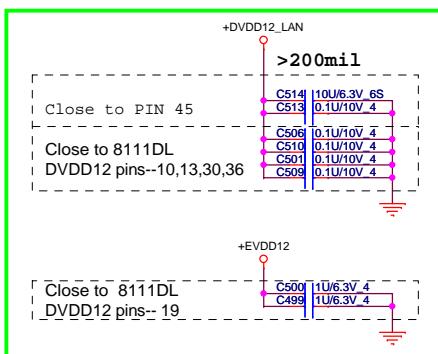
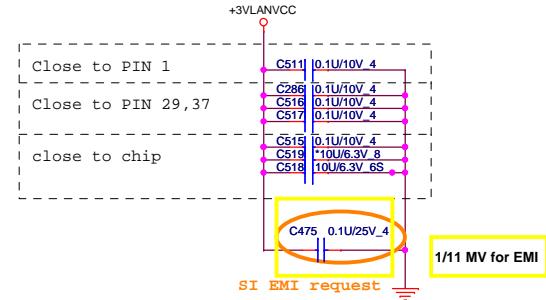
PROJECT :AX3
Quanta Computer Inc.

NB5 Size Document Number Rev
Custom ICH9-M GPIO/Board ID 3/4 2A
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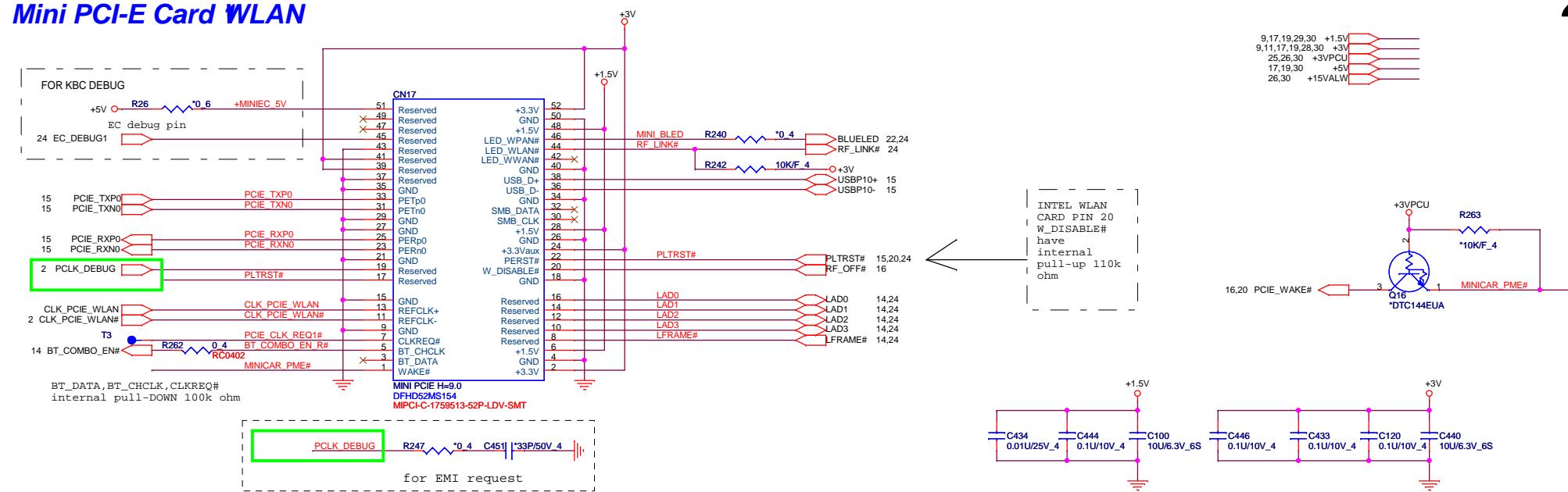




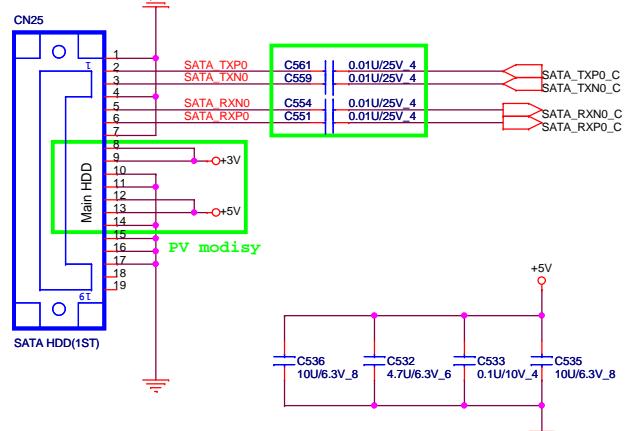


9,11,17,19,28,30 +3V
30 +3VLANVCC

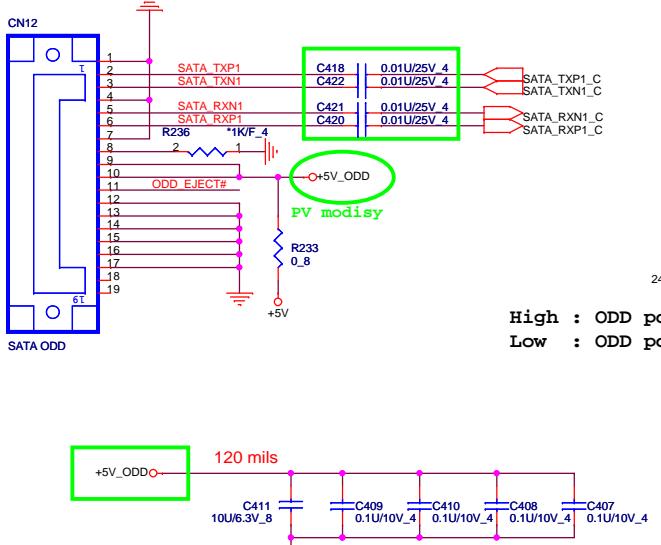
Mini PCI-E Card WLAN



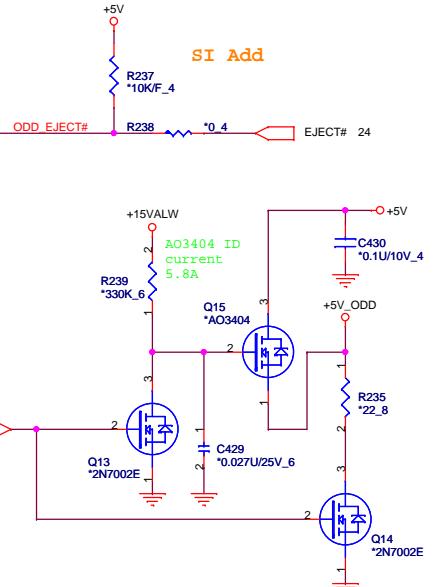
SATA HDD CONNECTOR



SATA ODD CONNECTOR



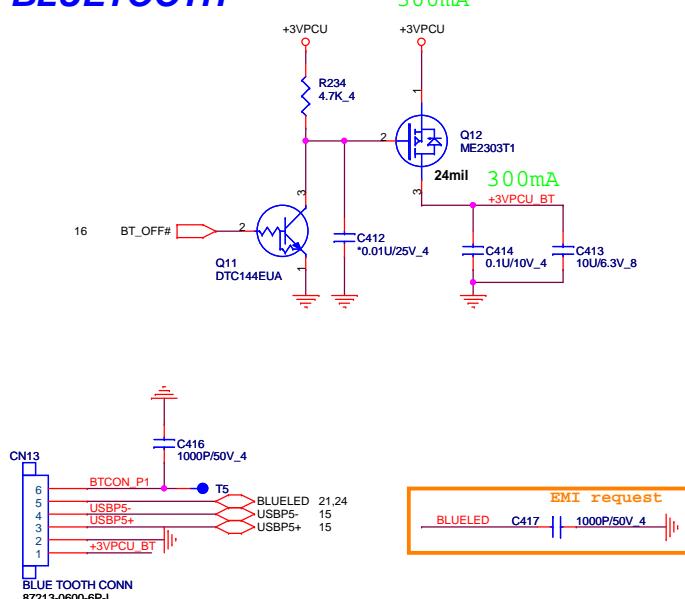
High : ODD power down
Low : ODD power on



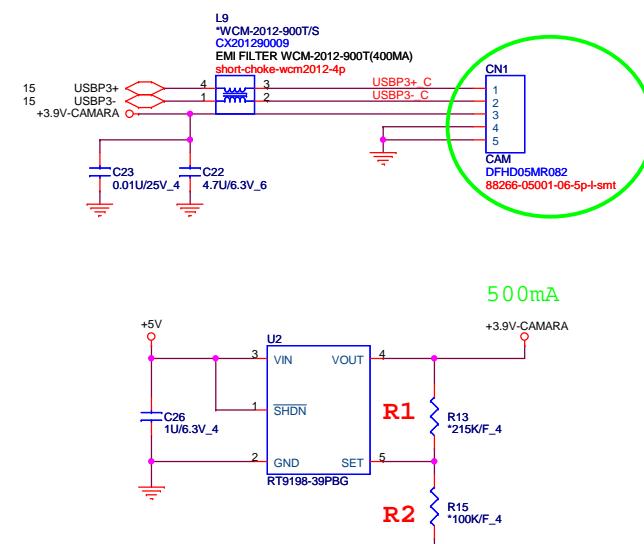
PROJECT :AX3		
Quanta Computer Inc.		
Size Custom	Document Number	Rev 2A
NB5	HDD/ODD/FAN	
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LEFT SIDE USBX1

BLUETOOTH

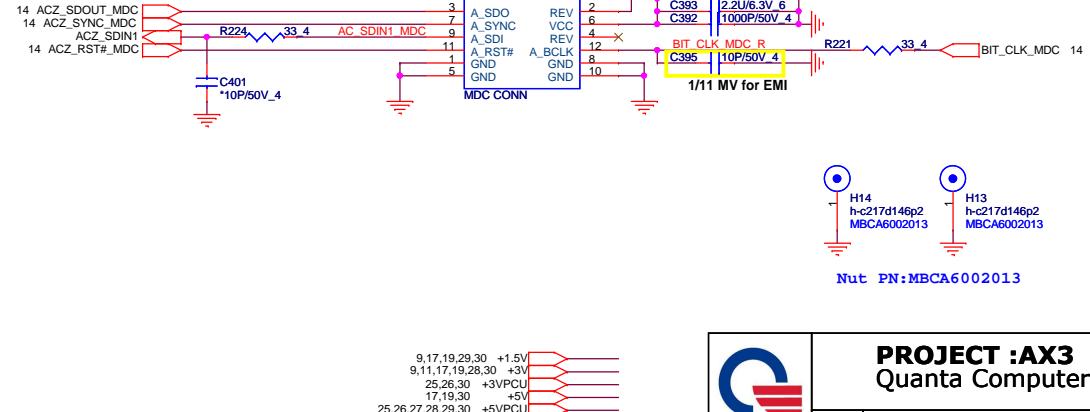


CAMERA



Modem CONN

MDC



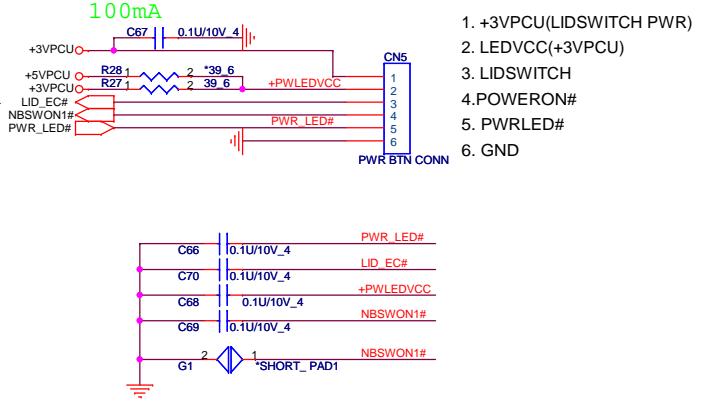
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PROJECT :AX3
Quanta Computer Inc.

	Quantum Computer Inc.		
NB5	Size Custom	Document Number USB/BT/CAMERA/Modem	Rev 2A
7	Date: Tuesday, February 23, 2010	Sheet 22 of 30	8

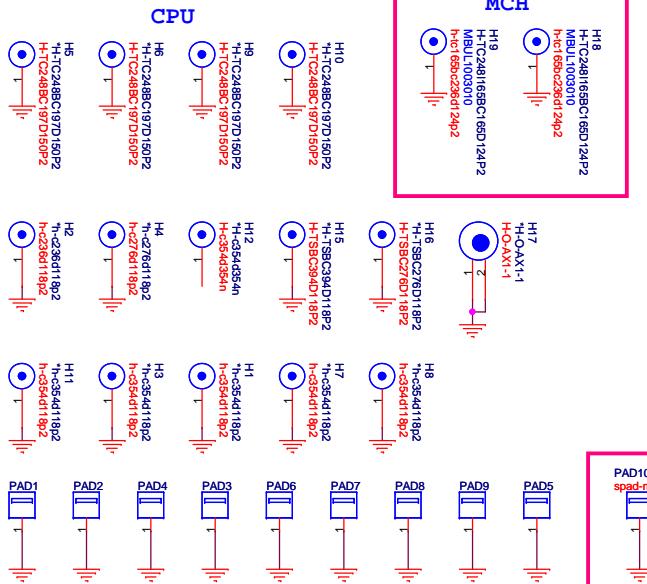
POWER BOTTOM CONNECT



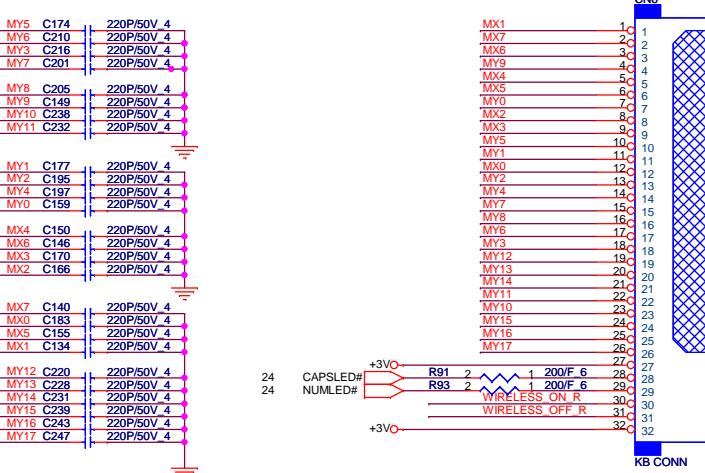
SATA LED



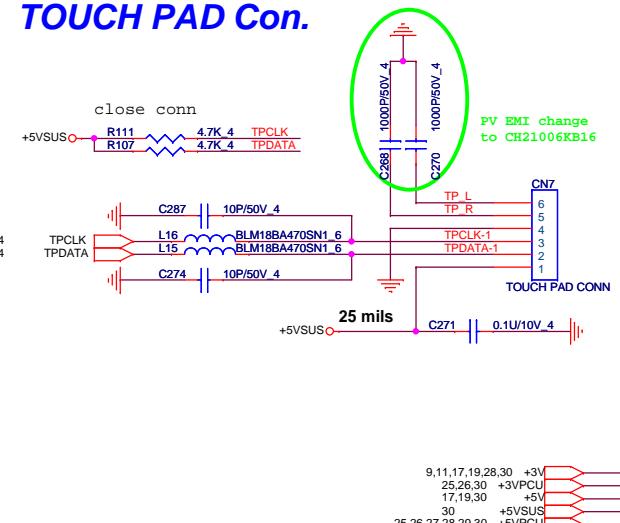
HOLE & PAD



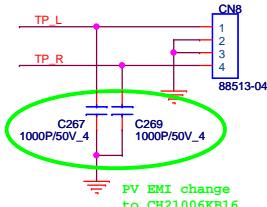
KEYBOARD Con.



TOUCH PAD Con.



To TOUCH PAD SW board



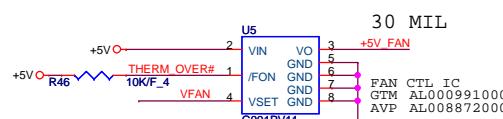
PROJECT :AX3
Quanta Computer Inc.

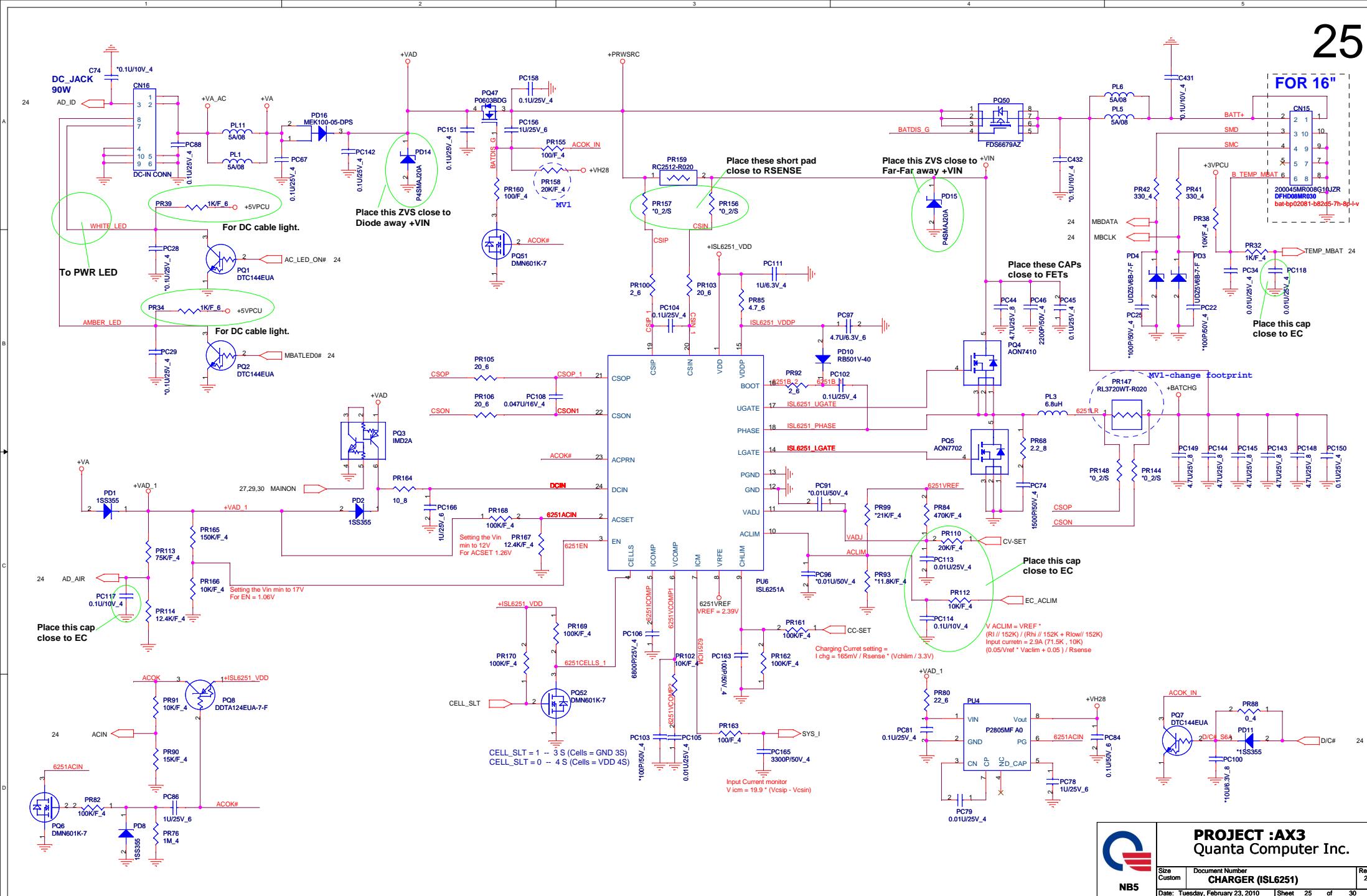
Document Number
KB/TP/SW/LED/Hole

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Rev 2A

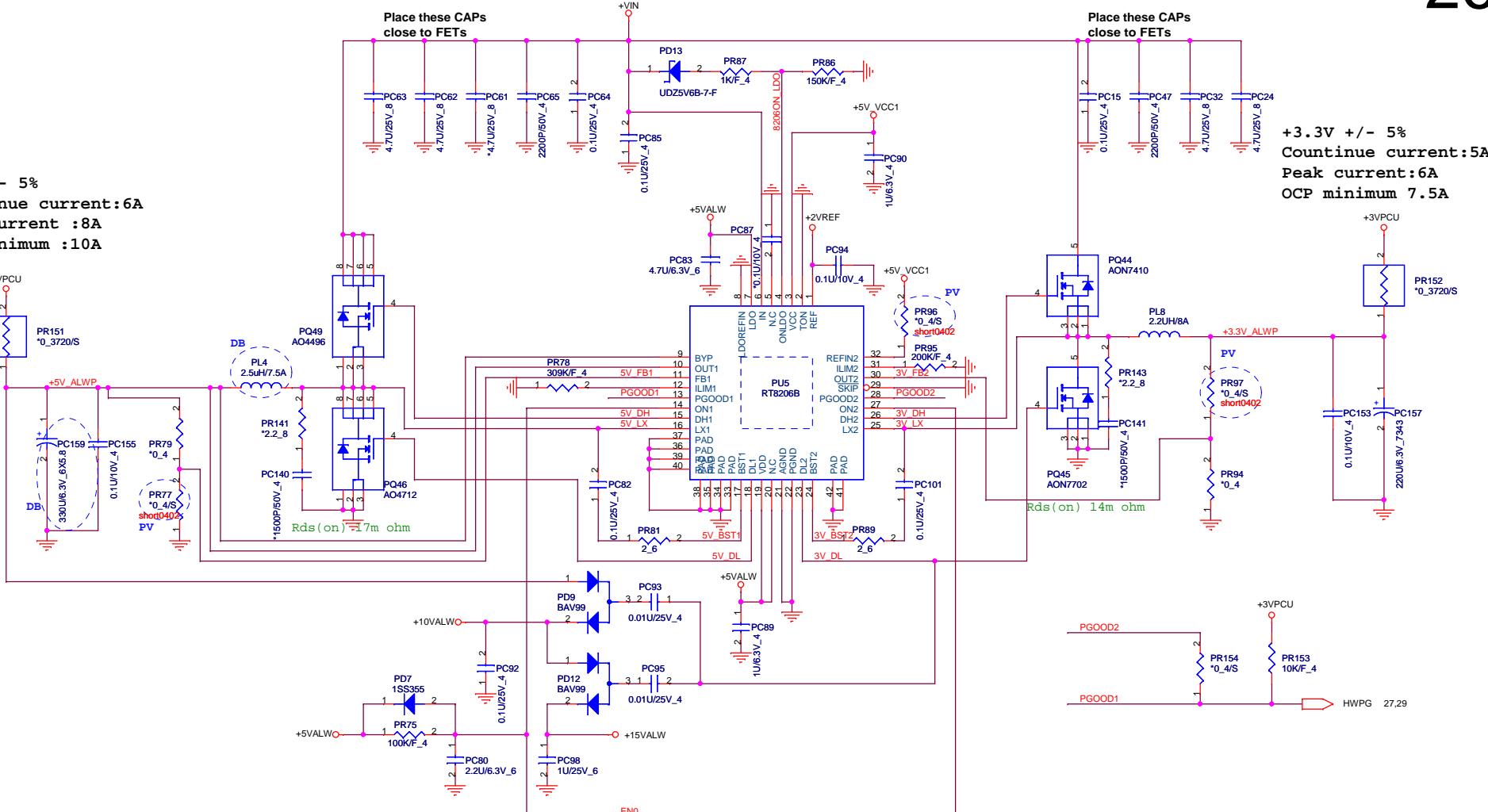
CPU FAN



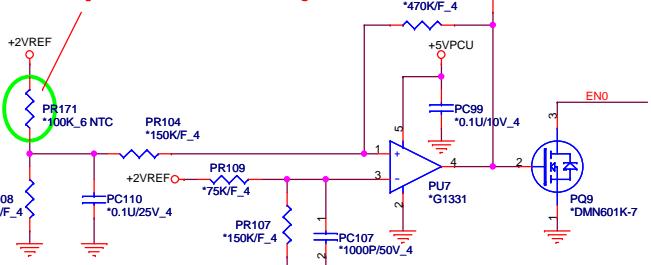


DC/DC +3V_ALW/+5V_ALW/+5V_ALW2 /+15V_ALW

+5V +/- 5%
Countinue current:6A
Peak current :8A
OCP minimum :10A

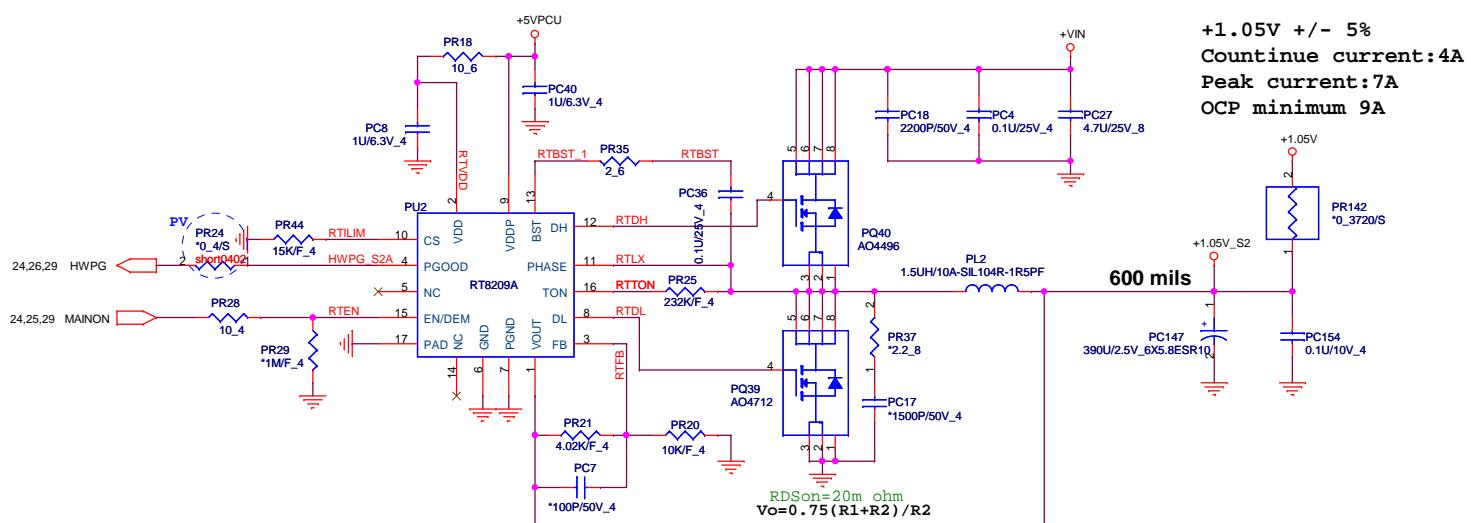


NTC need place under CPU Socket
CPU Thermal protection at 90 +/-3 degrec



PROJECT :AX3
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Size	Document Number	Rev
Custom	+5V+3V (RT8206B)	2A
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Quanta Computer Inc.

Size Custom	Document Number +1.05V	Rev 2A

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Merom: VCC_CORE/ 44A
Yonah: VCC_CORE/ 36A

