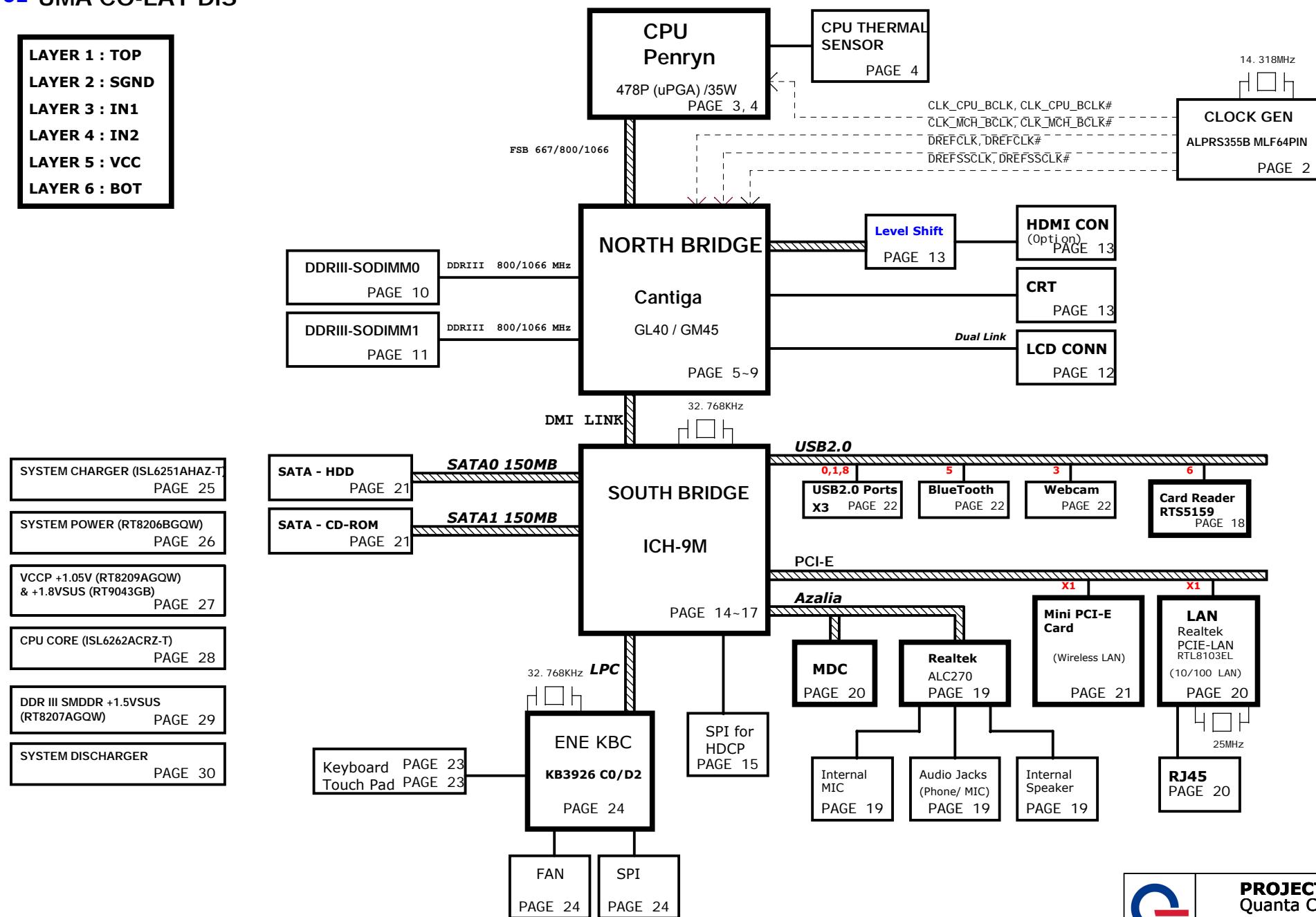


# Wimbledon AX3/5 BLOCK DIAGRAM

## PCB STACK UP

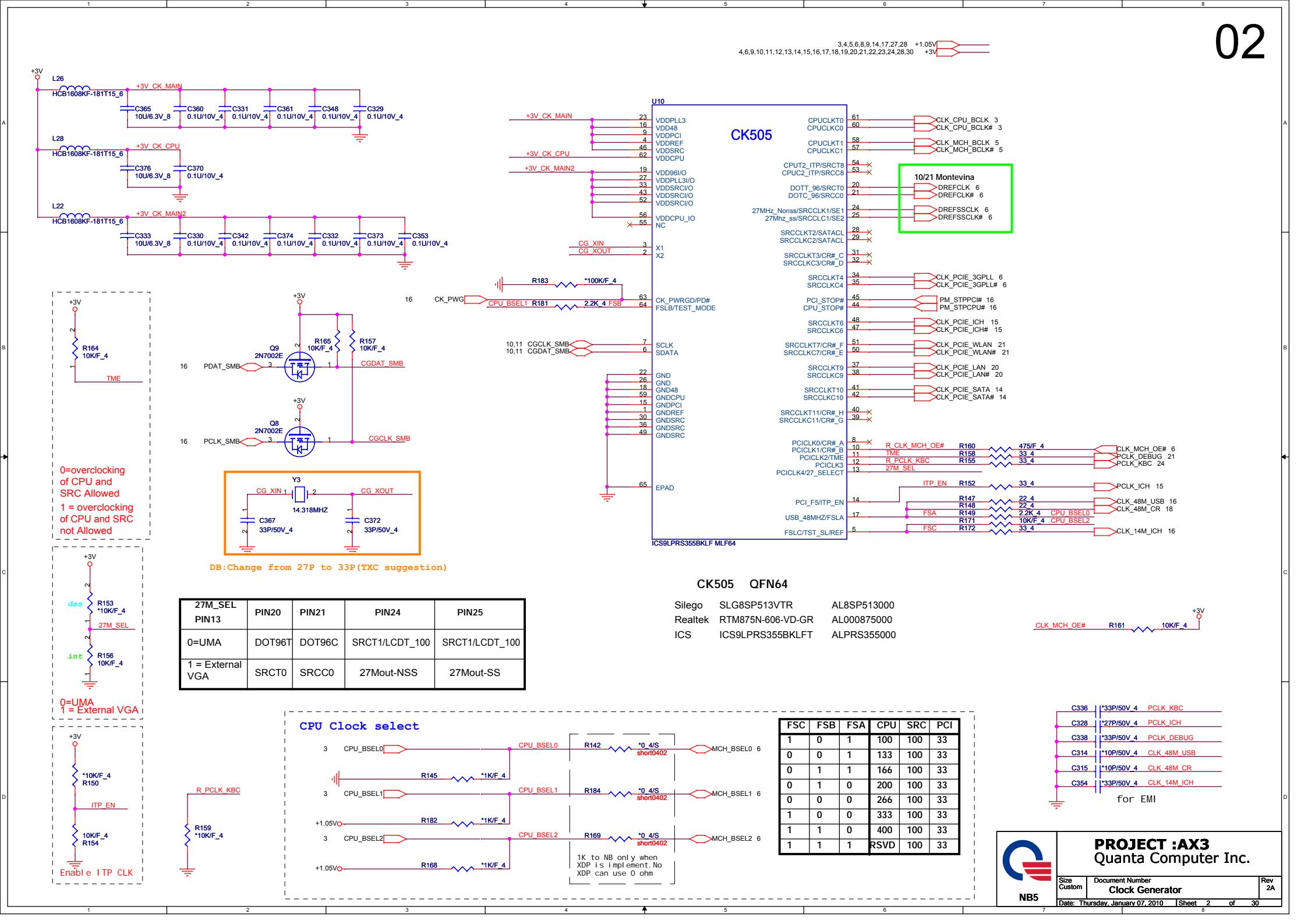
### 6L UMA CO-LAY DIS

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

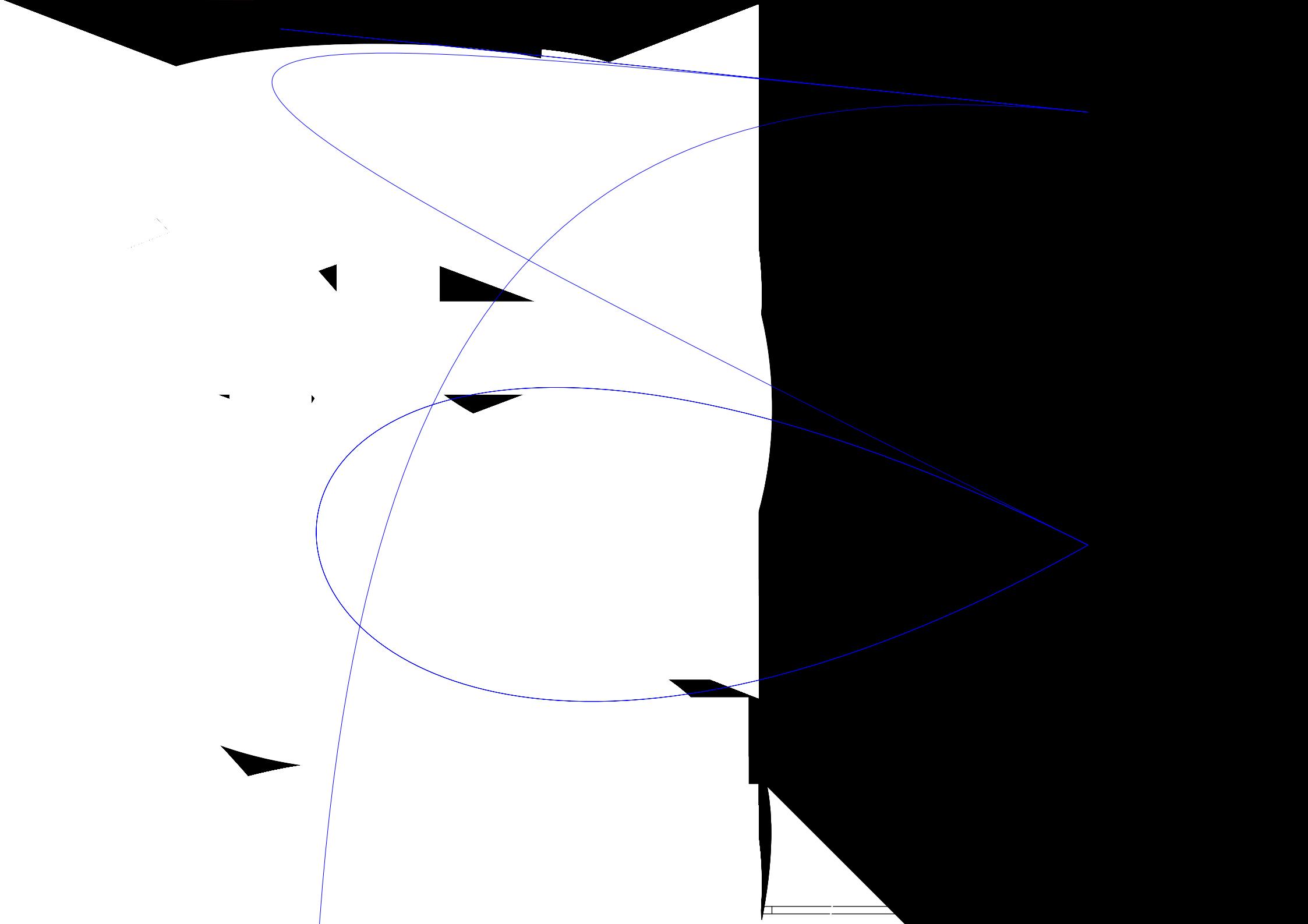


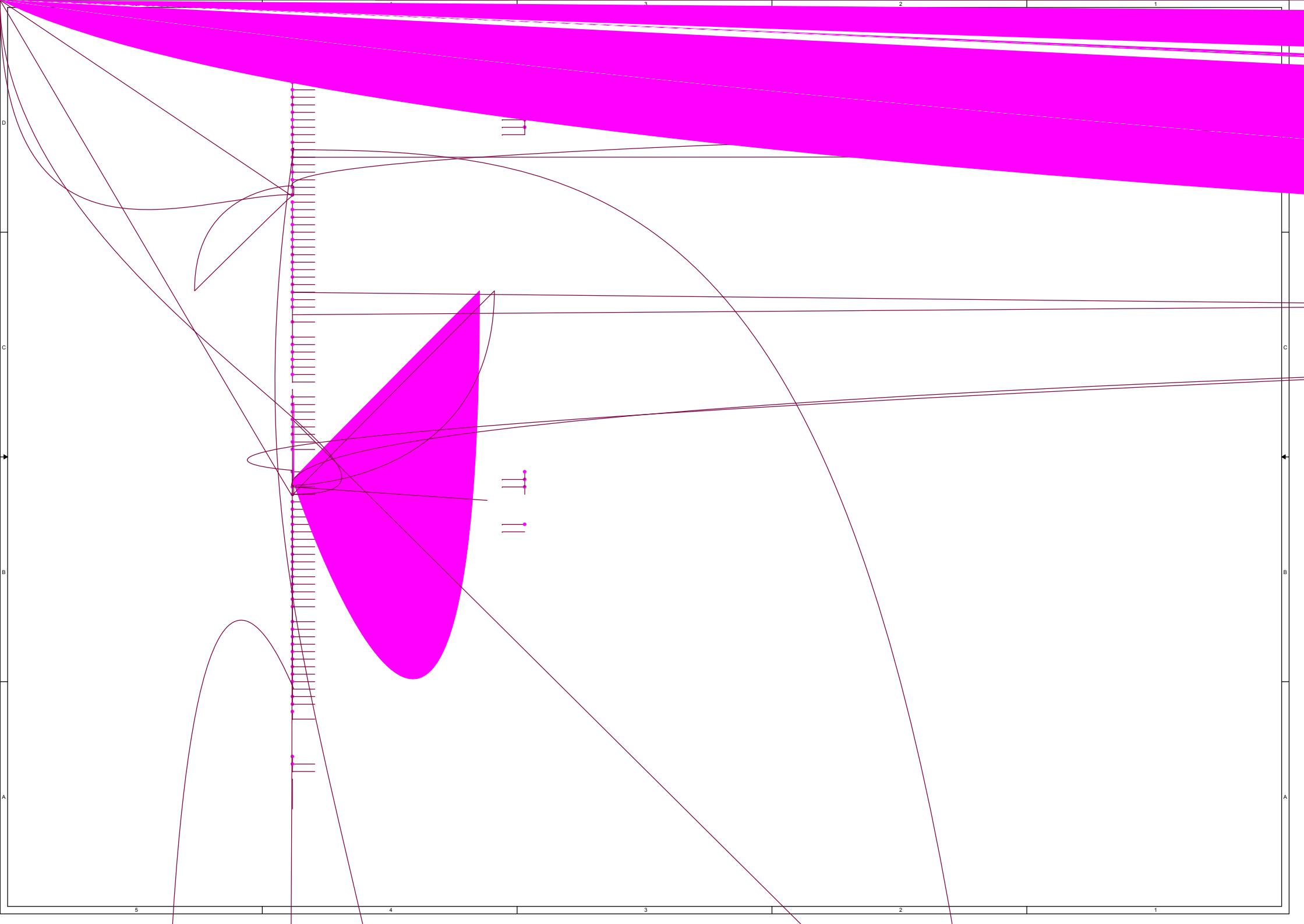
**PROJECT :AX3**  
 Quanta Computer Inc.

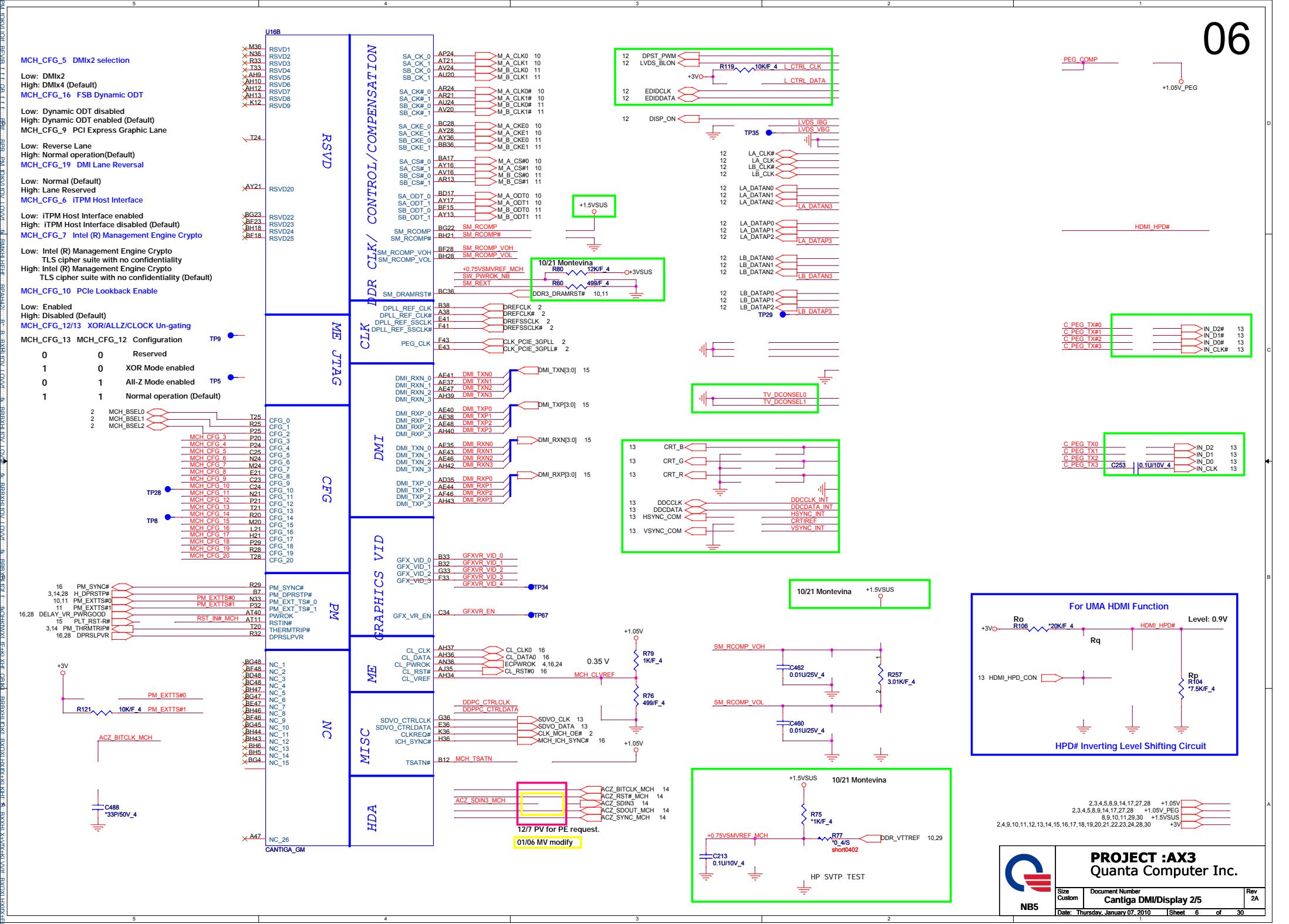
Size Custom	Document Number Block Diagram	Rev 2A
Date: Thursday, January 07, 2010	Sheet 1 of 30	

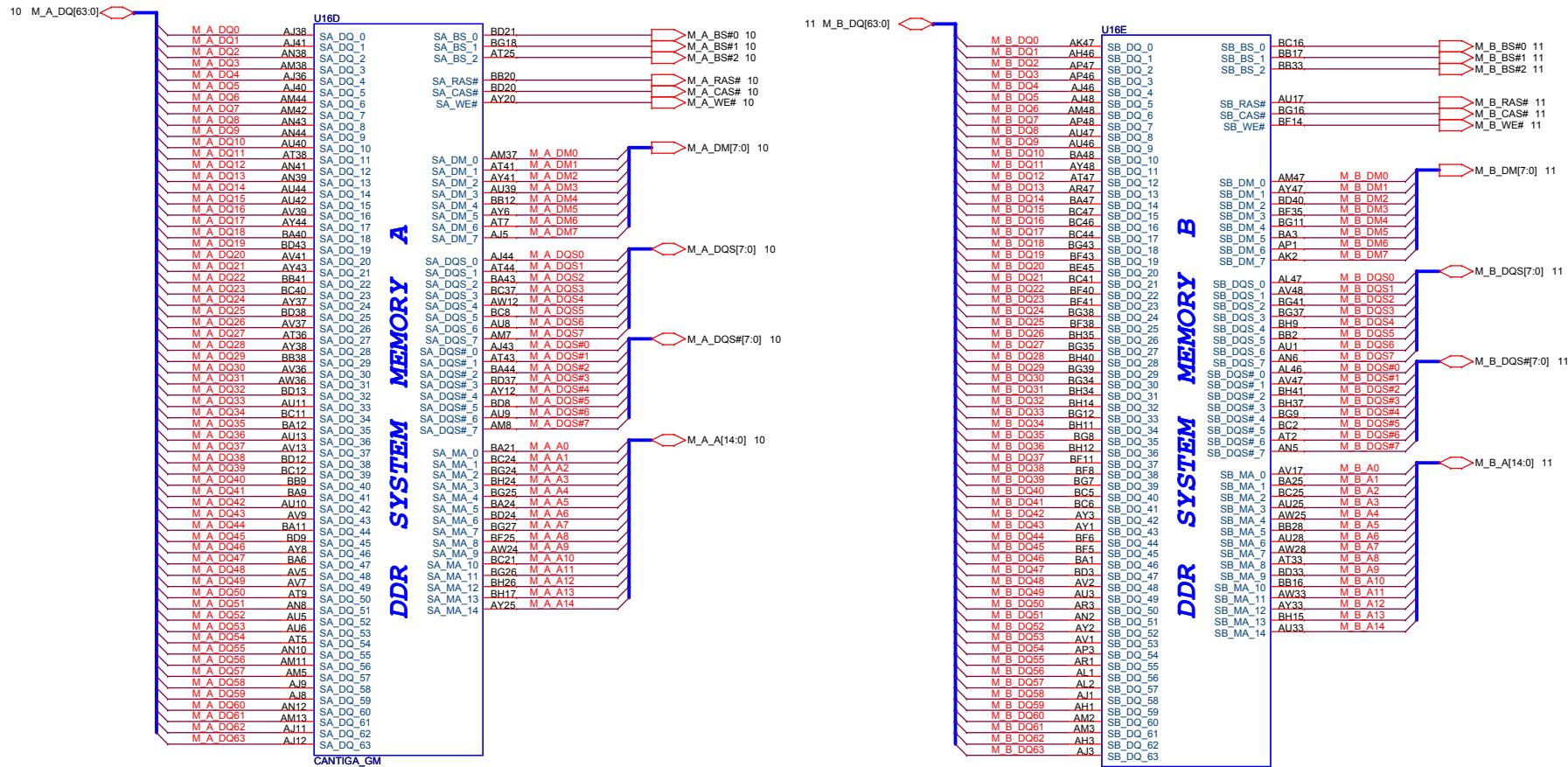


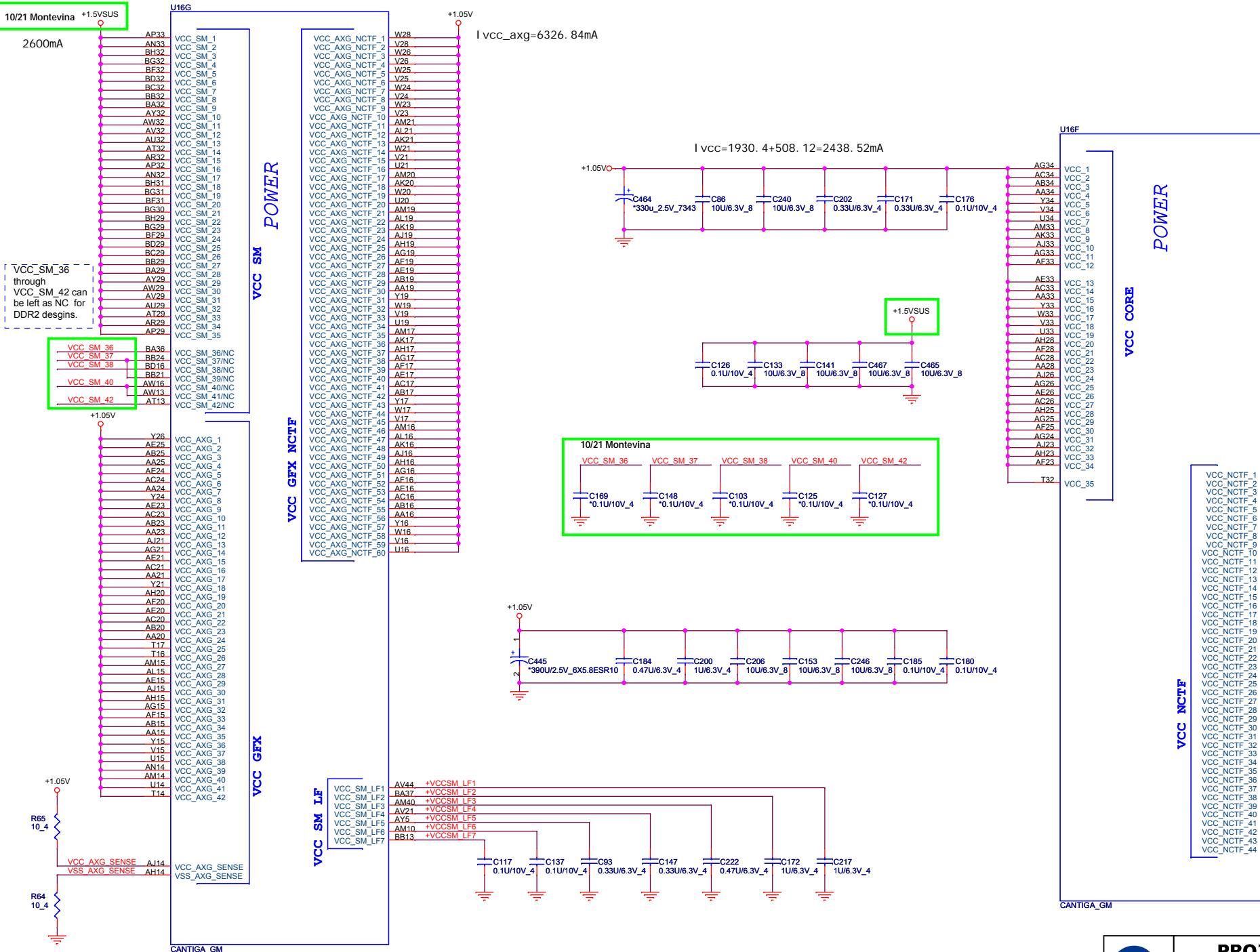


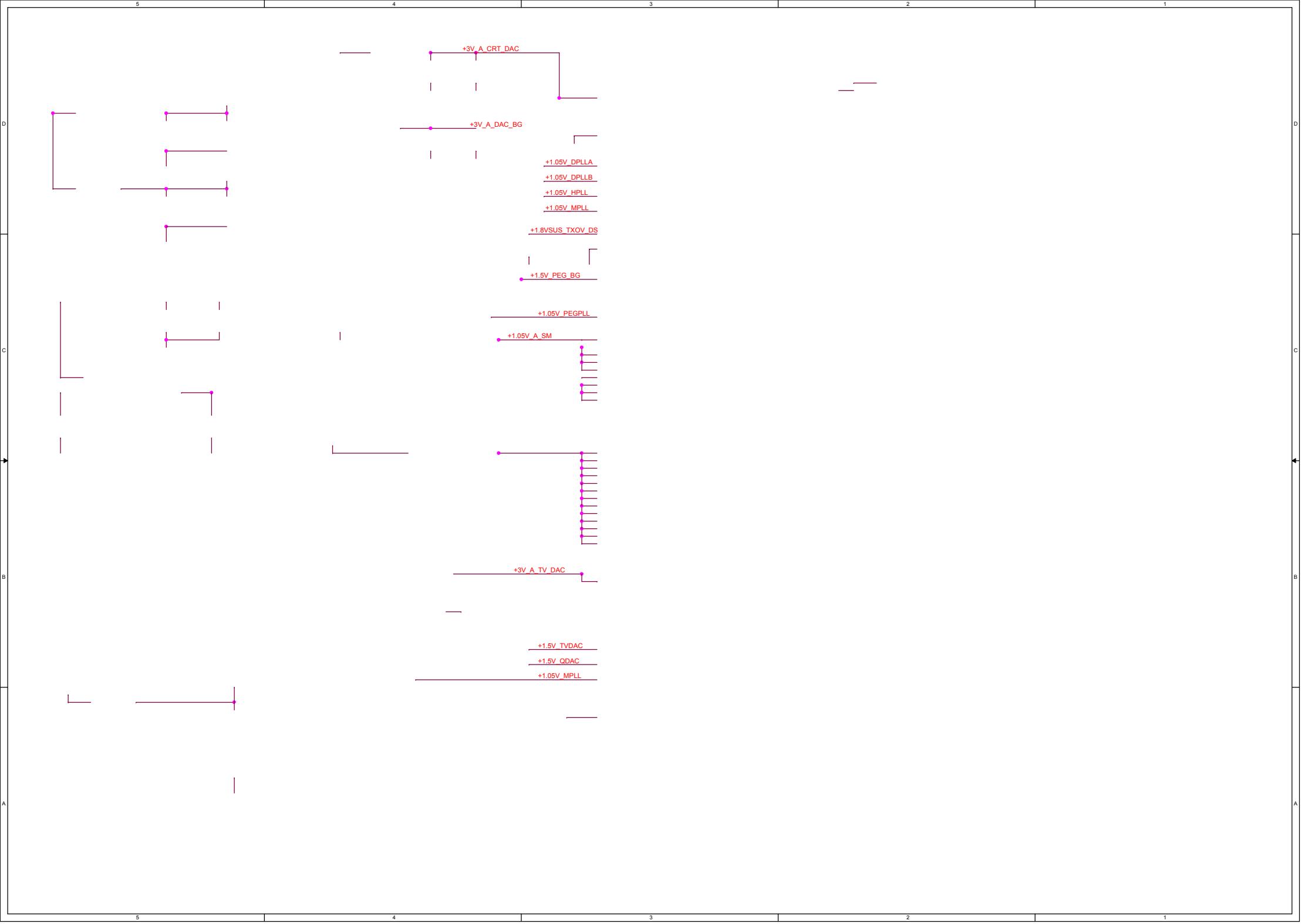


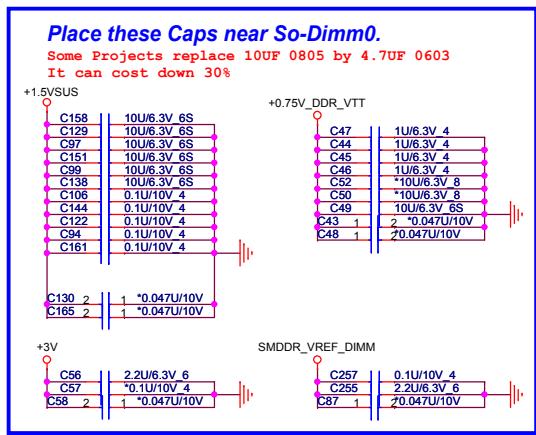
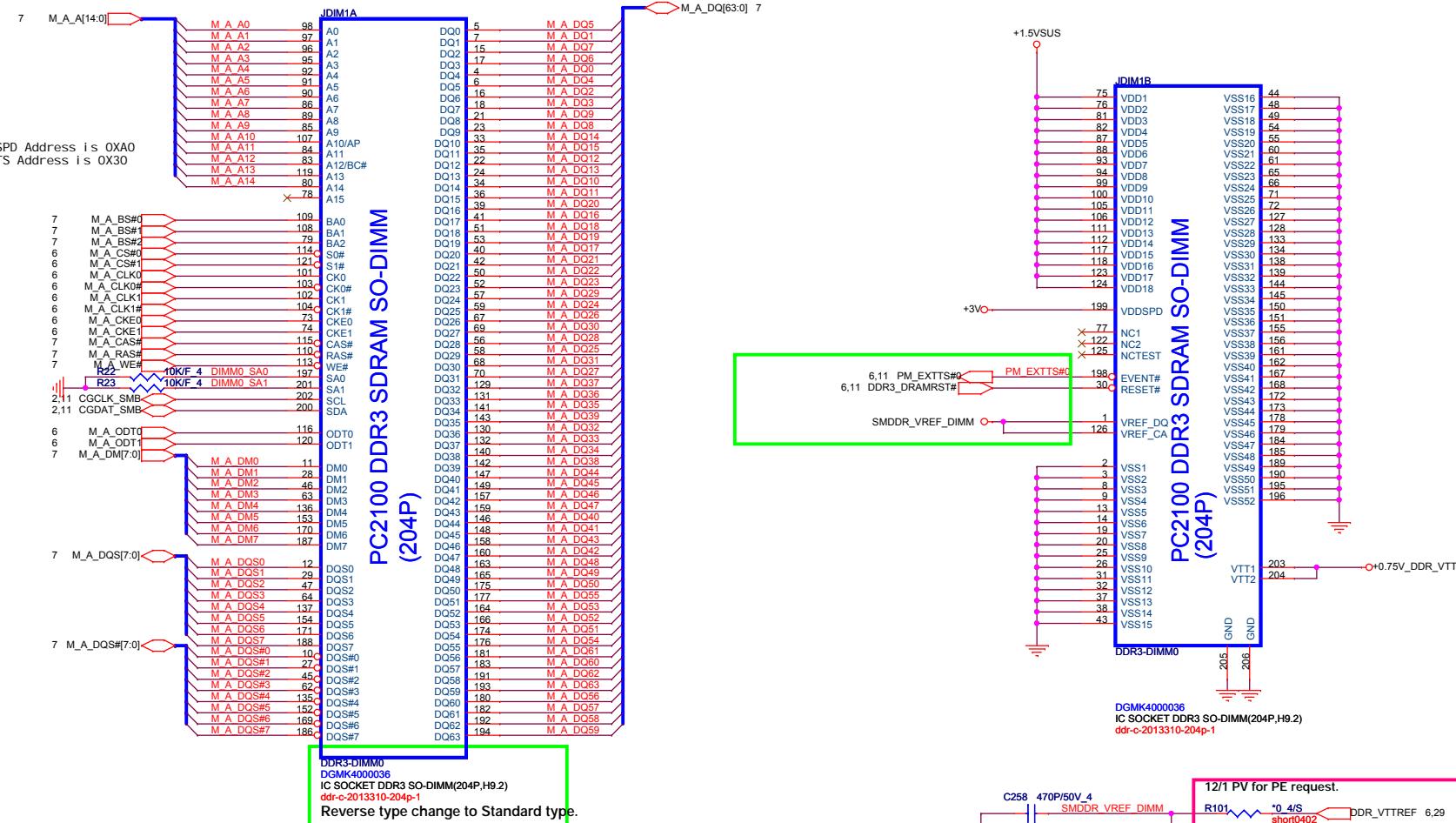




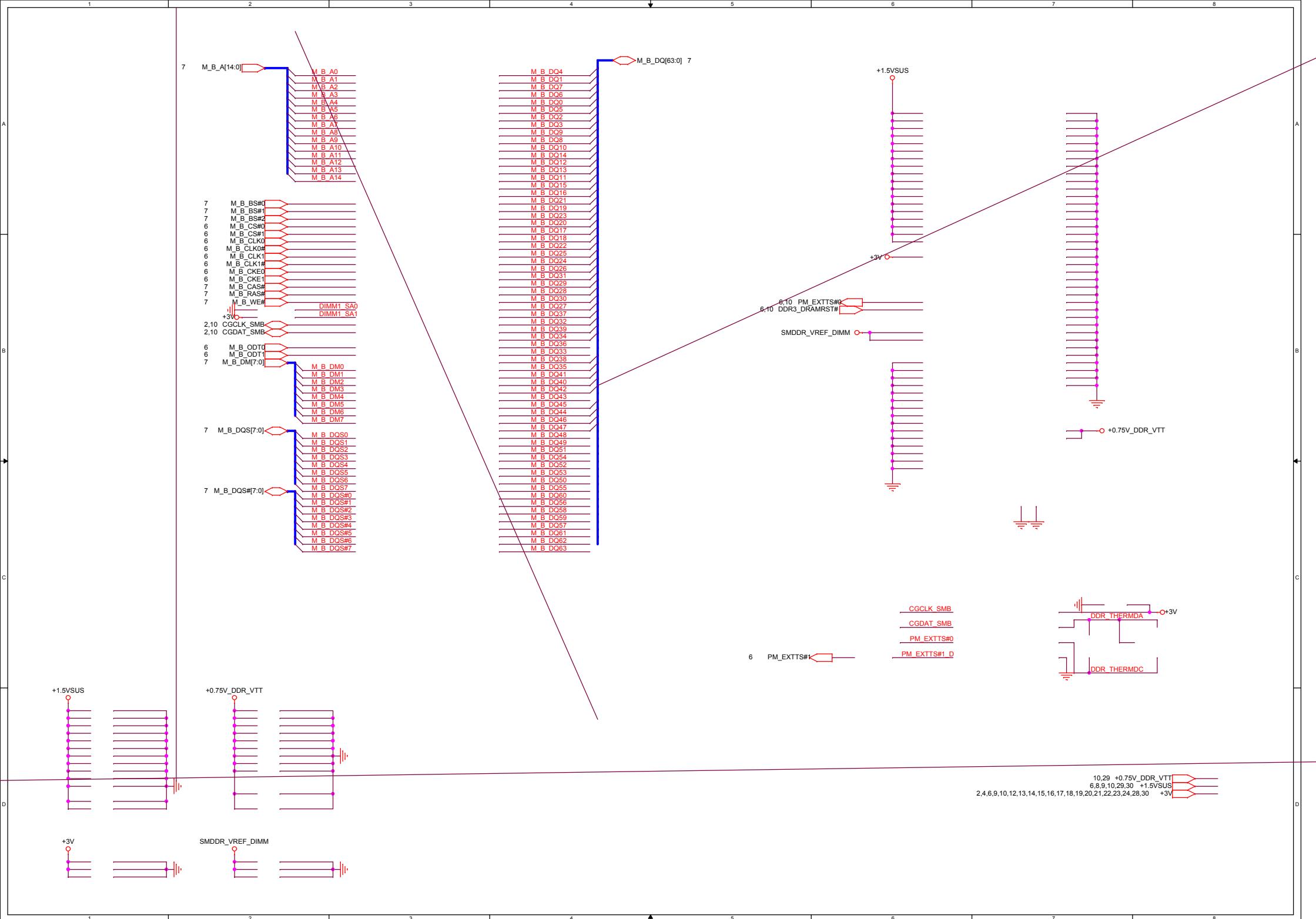




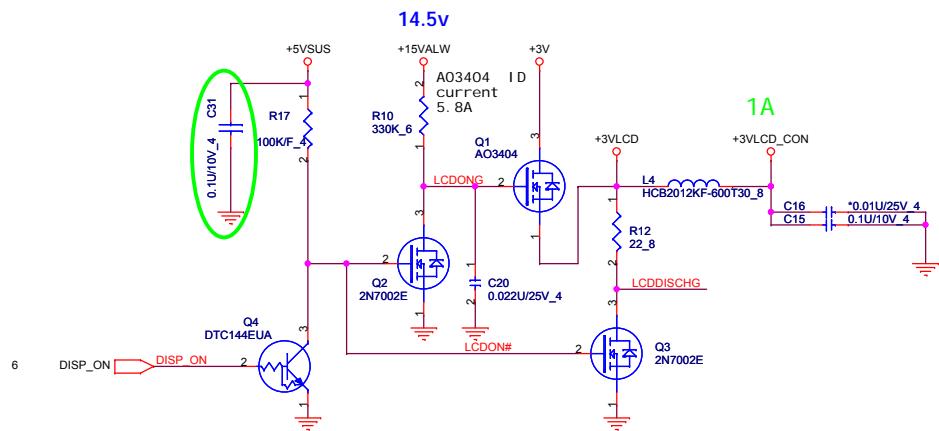
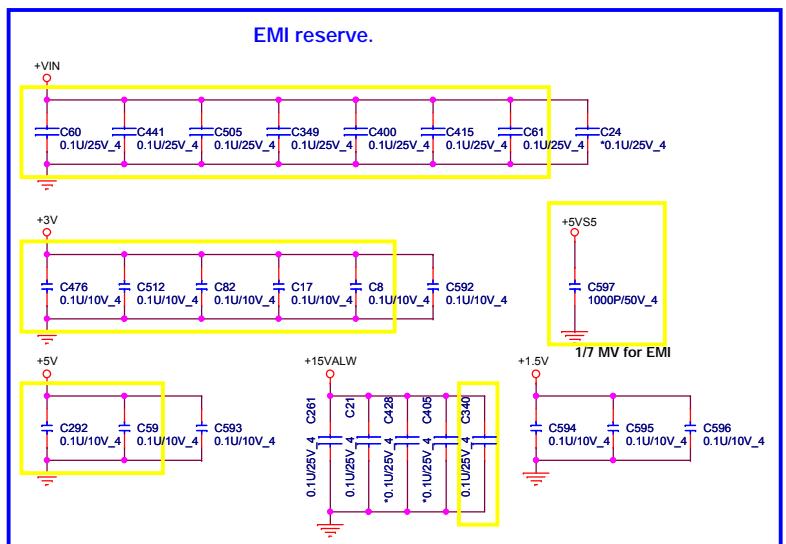
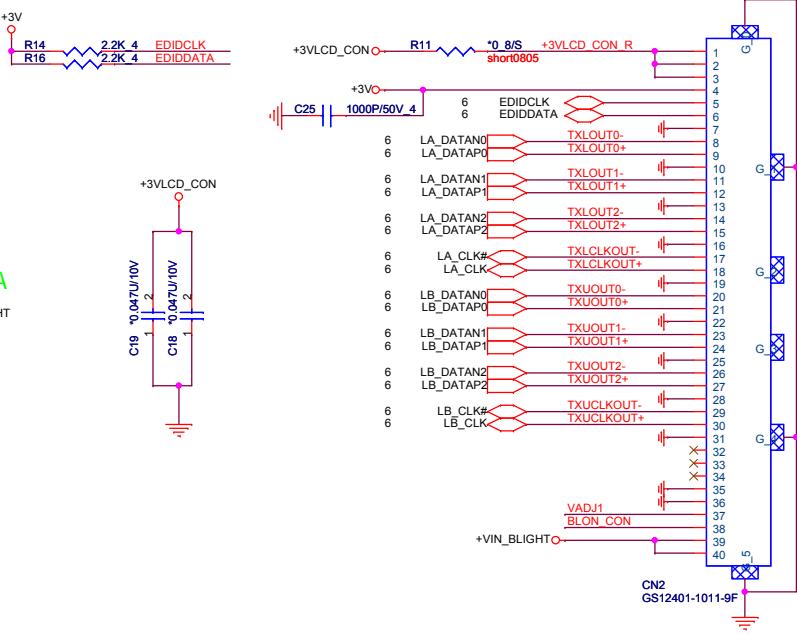
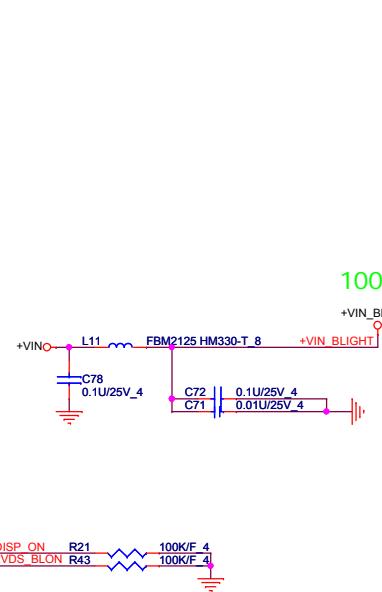
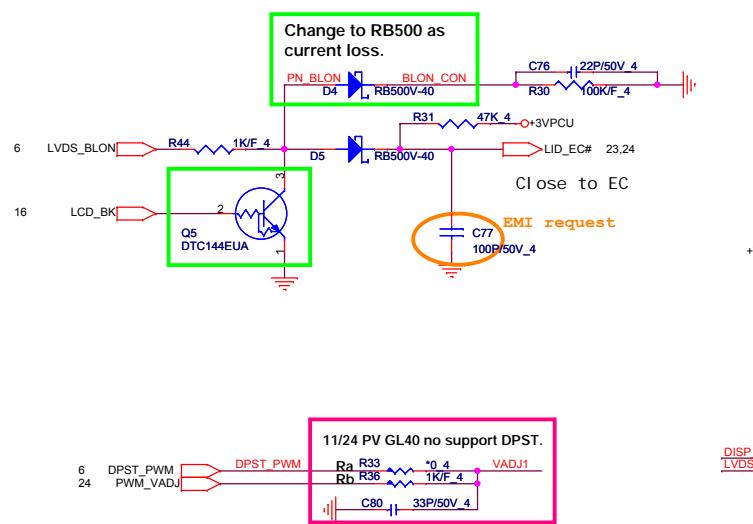




PROJECT :AX3		
Quanta Computer Inc.		
Size Custom	Document Number DDR3 DIMM-0	Rev 2A
NB5	Date: Thursday, January 07, 2010	Sheet 10 of 30



# LID Switch

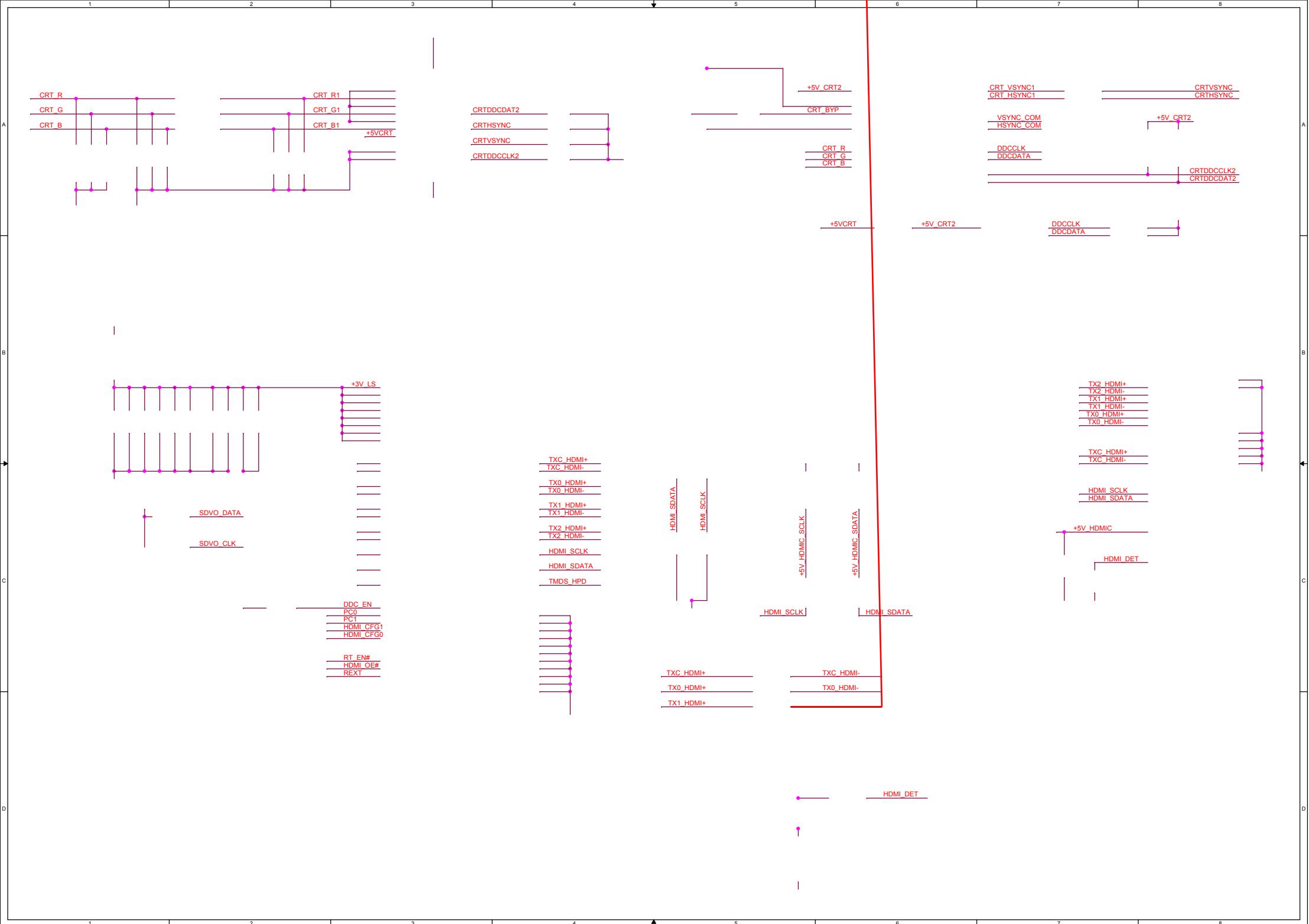


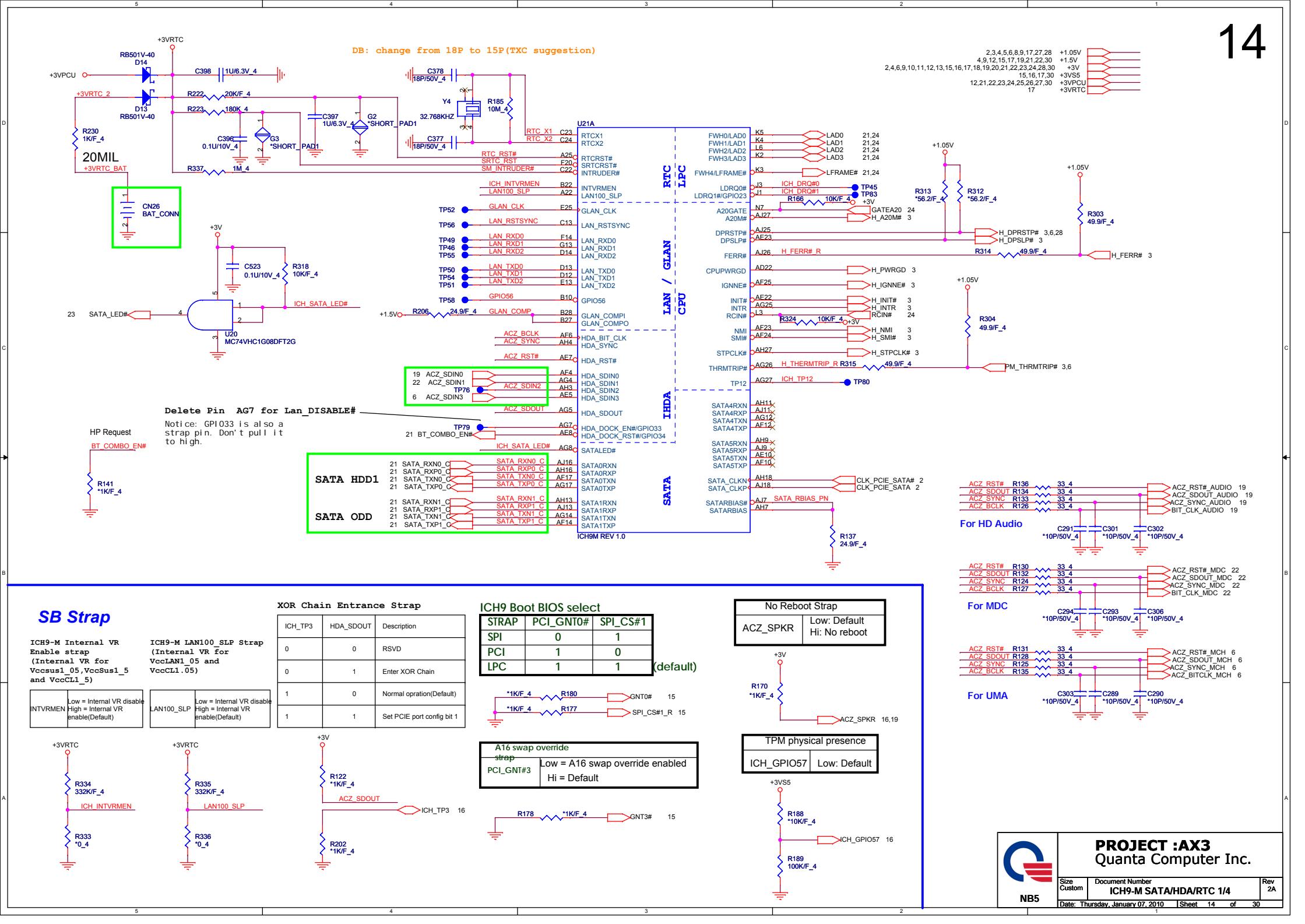
4,9,14,15,17,19,21,22,30	+1.5V
2,4,6,9,10,11,13,14,15,16,17,18,19,20,21,22,23,24,28,30	+3V
14,21,22,23,24,25,26,27,30	+3VPCU
13,17,19,21,22,23,24,30	+5V
23,30	+5VSUS
21,26,30	+15VALW
25,26,27,28,29,30	+VIN

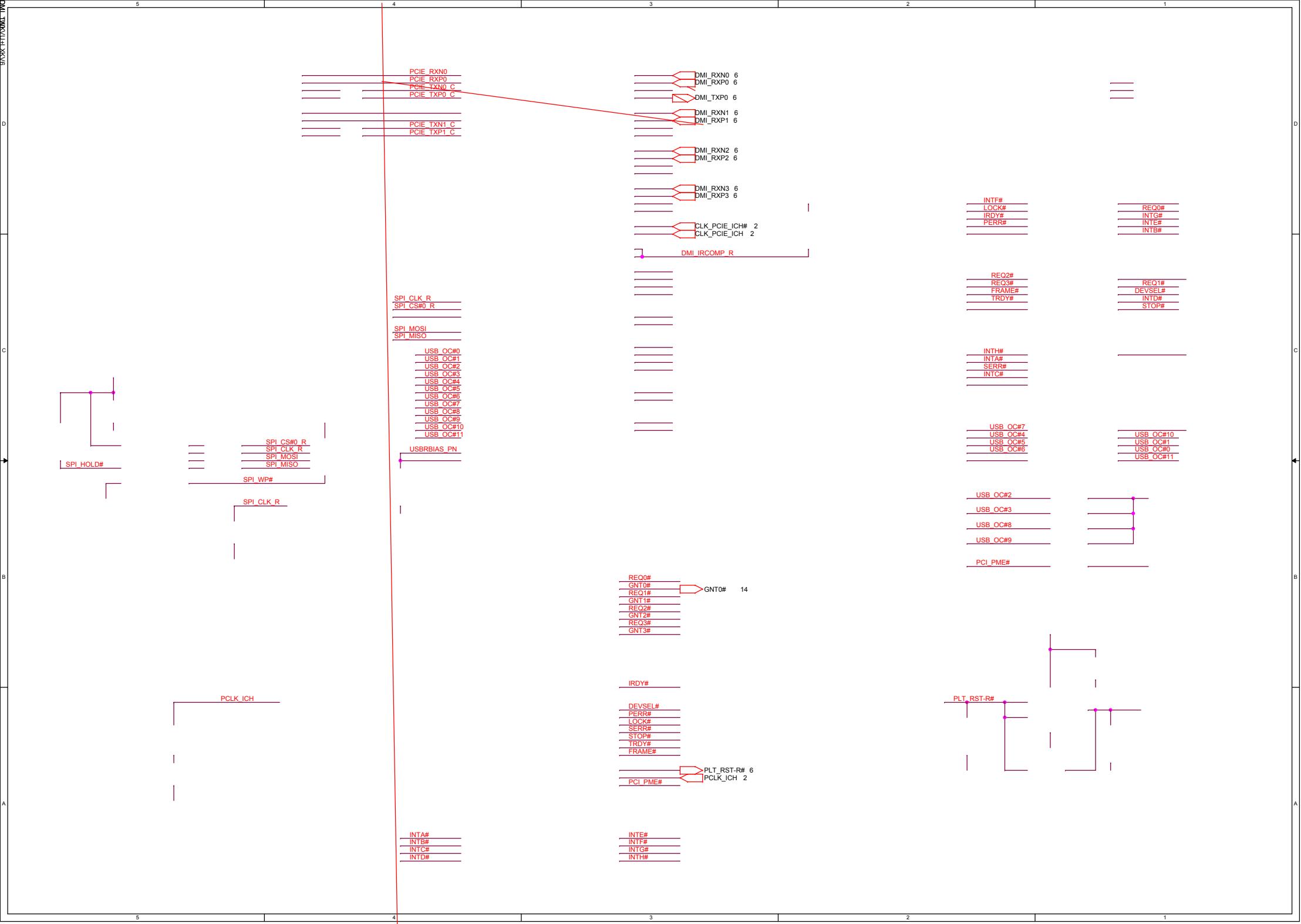


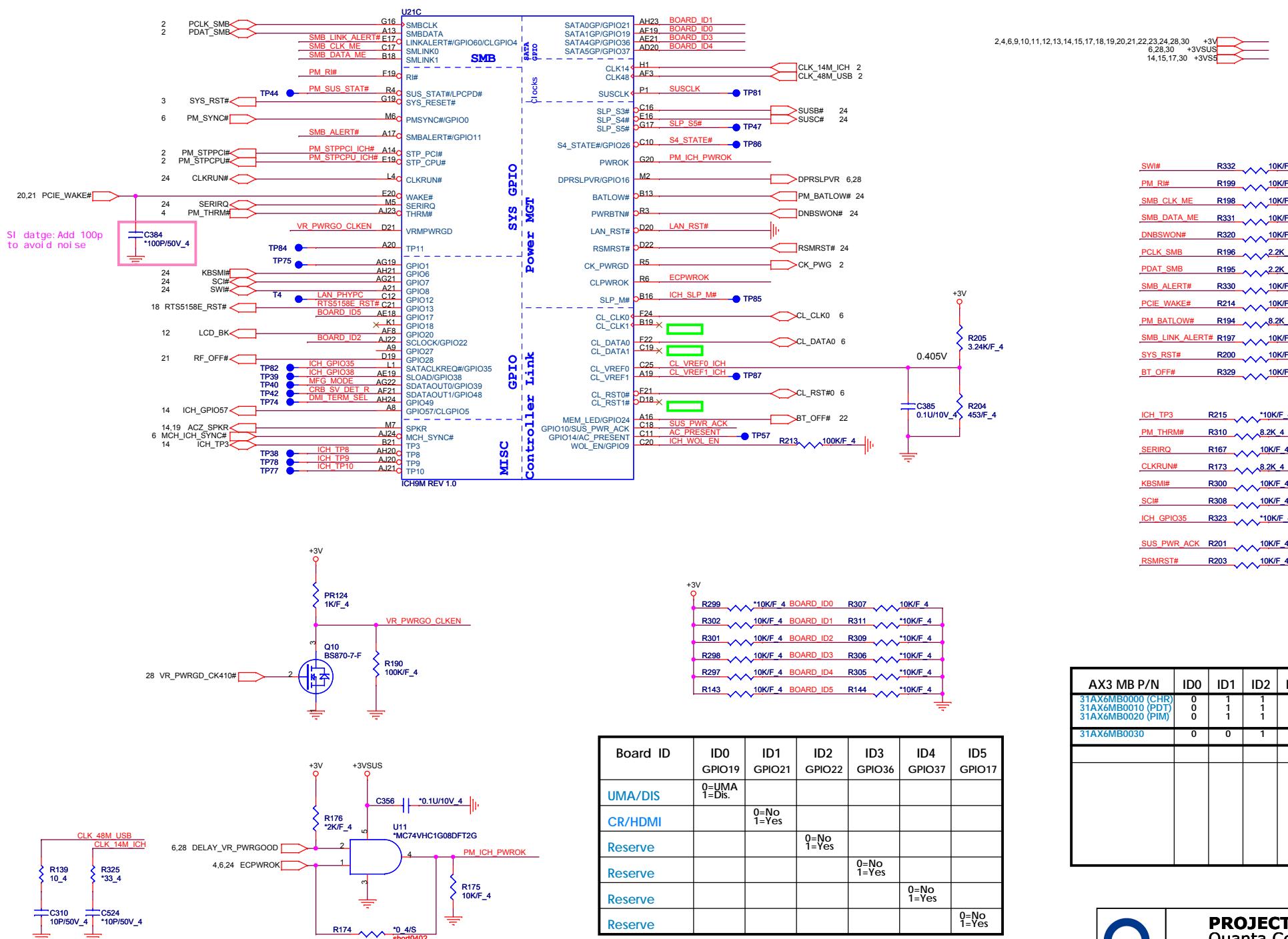
**PROJECT :AX3**  
Quanta Computer Inc.

Size Custom	Document Number <b>LCD CONN/LID</b>	Rev 2A
Date: Monday, January 11, 2010		Sheet 12 of 30
8		









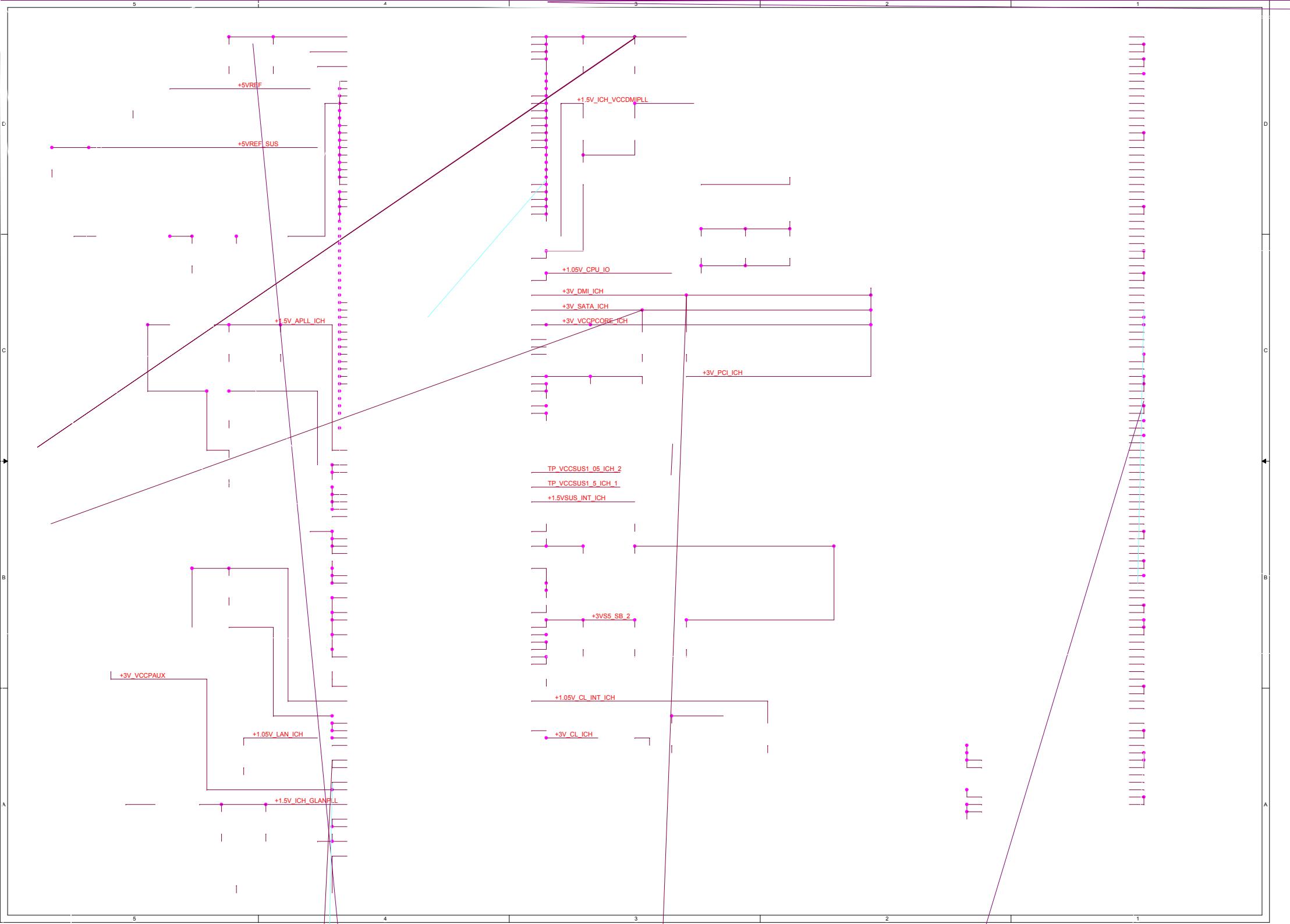
AX3 MB P/N	ID0	ID1	ID2	ID3	ID4	ID5
31AX6MB0000 (CHR)	0	1	1	1	1	1
31AX6MB0010 (PDT)	0	1	1	1	1	1
31AX6MB0020 (PIM)						

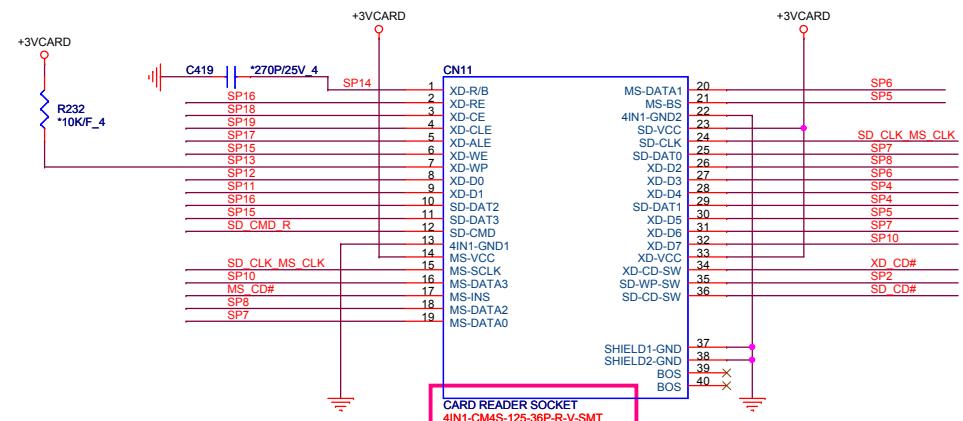
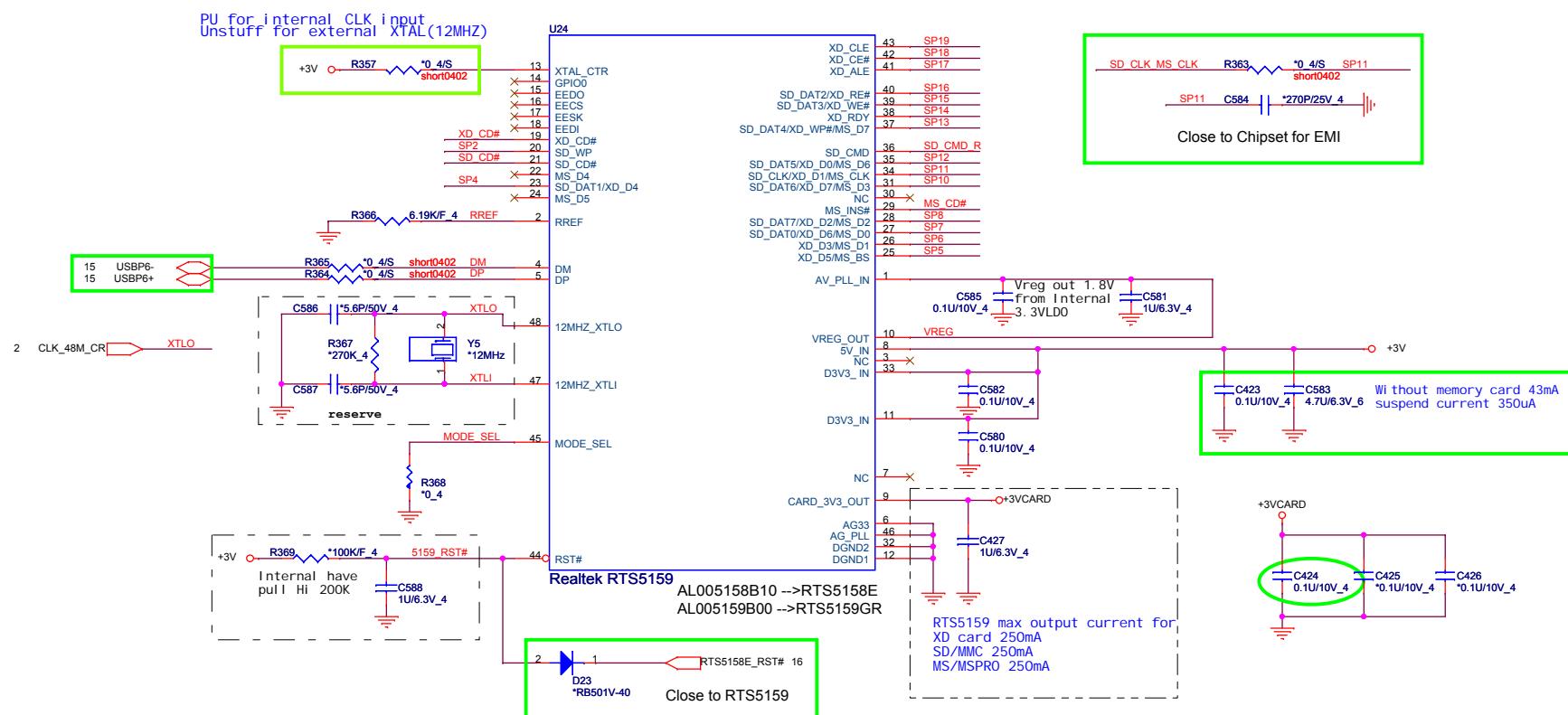
  

31AX6MB0030	0	0	1	1	1	1



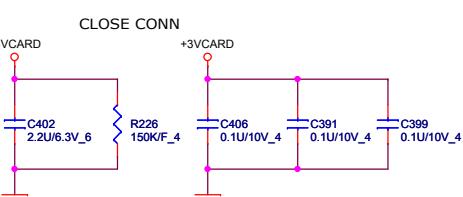
**PROJECT :AX3**  
Quanta Computer Inc.





#### 5 IN1 CARD-READER (PLUSH-PLUSH)

Support SD/SD PRO/MMC/MS/MS PRO/xD Cards



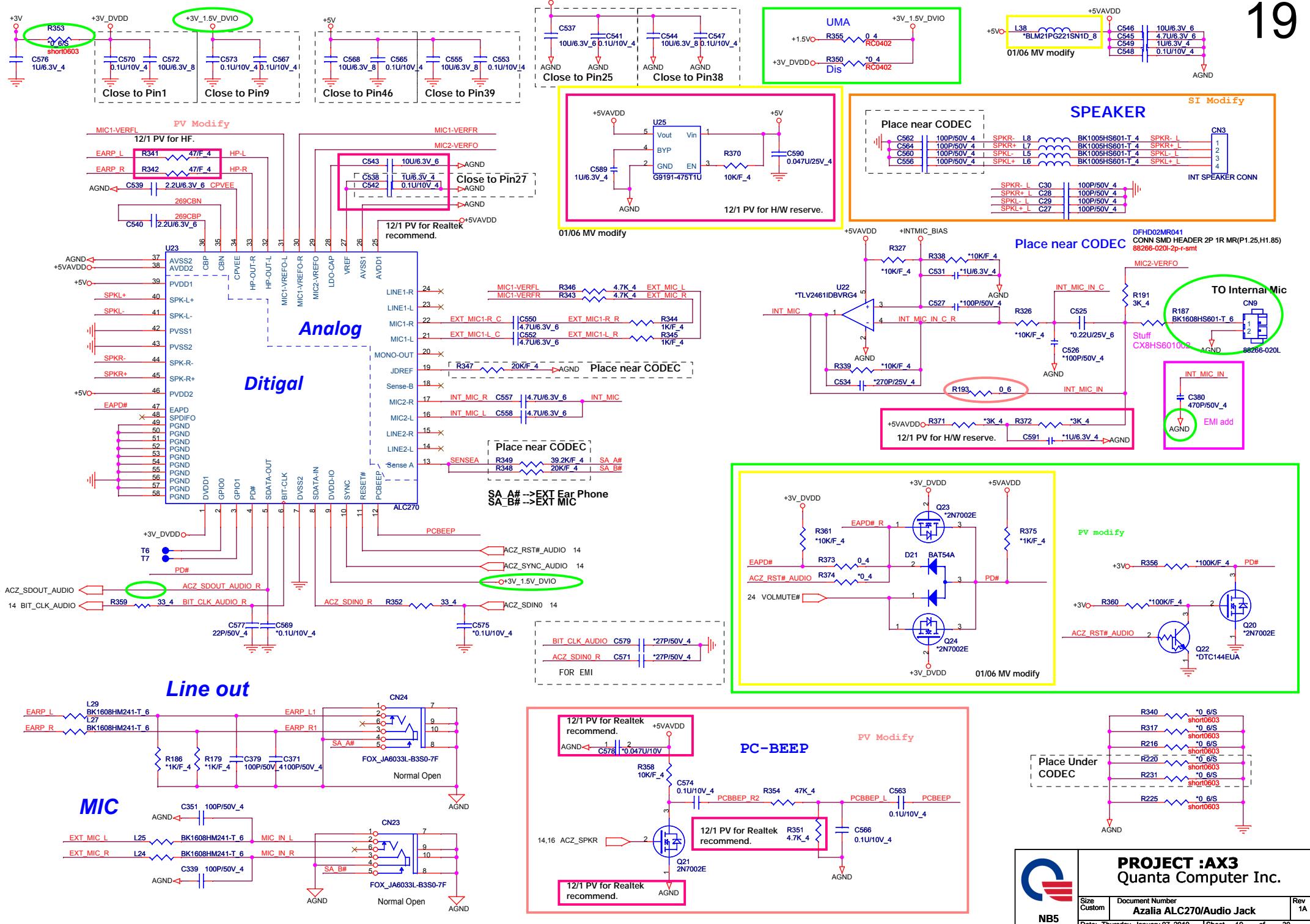
### Note:

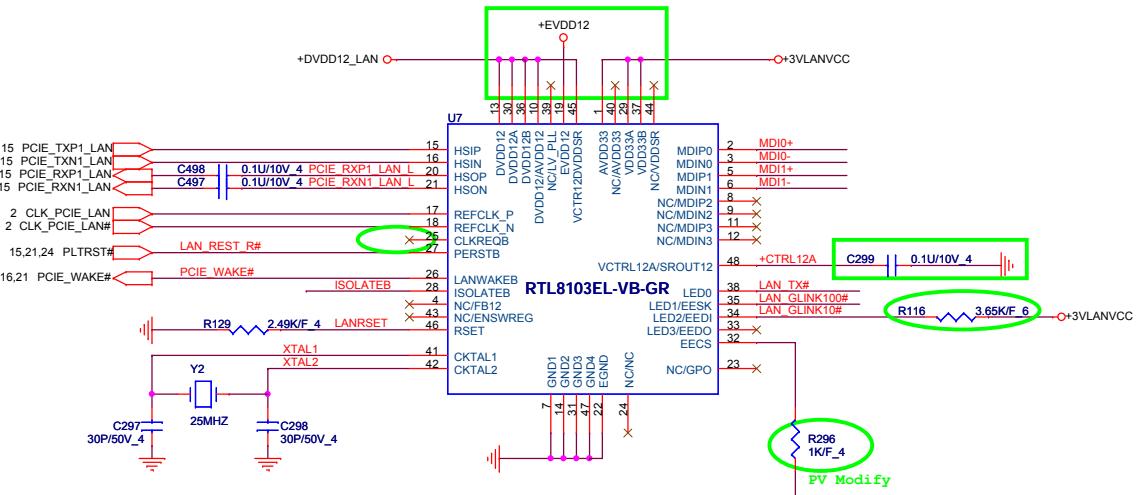
	<b>SD/MMC</b>	<b>MS</b>	<b>XD</b>
<b>SP1</b>			XD CD#
<b>SP2</b>	SD WP		
<b>SP3</b>	SD CD#		
<b>SP4</b>	SD DAT1		XD D4
<b>SP5</b>		MS BS	XD D5
<b>SP6</b>		MS D1	XD D3
<b>SP7</b>	SD DAT10	MS D0	XD D6
<b>SP8</b>	SD DAT7	MS D2	XD D2
<b>SP9</b>		MS INS#	
<b>SP10</b>	SD DAT16	MS D3	XD D7
<b>SP11</b>	SD CLK#	MS SCLK#	XD D1
<b>SP12</b>	SD DAT11		XD D0
<b>SP13</b>	SD DAT4		XD WP#
<b>SP14</b>			XD R/B#
<b>SP15</b>	SD DAT3		XD WE#
<b>SP16</b>	SD DAT2		XD RE#
<b>SP17</b>			XD ALE
<b>SP18</b>			XD CE#
<b>SP19</b>			XD CLE



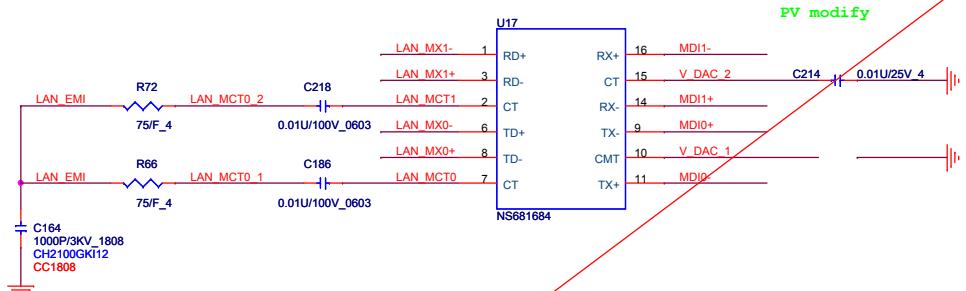
**PROJECT :AX3**  
Quanta Computer Inc.

Size Custom	Document Number <b>RTS5159/CR Socket</b>	Rev <b>2A</b>
Date: Thursday, January 07, 2010		Sheet 18 of 30

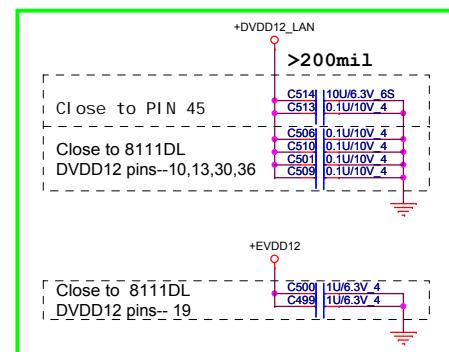
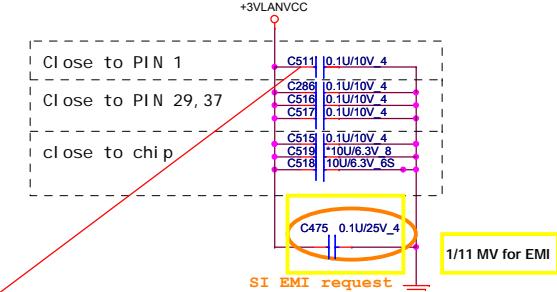




**Transformer for 10/100**



*Lan Con.*

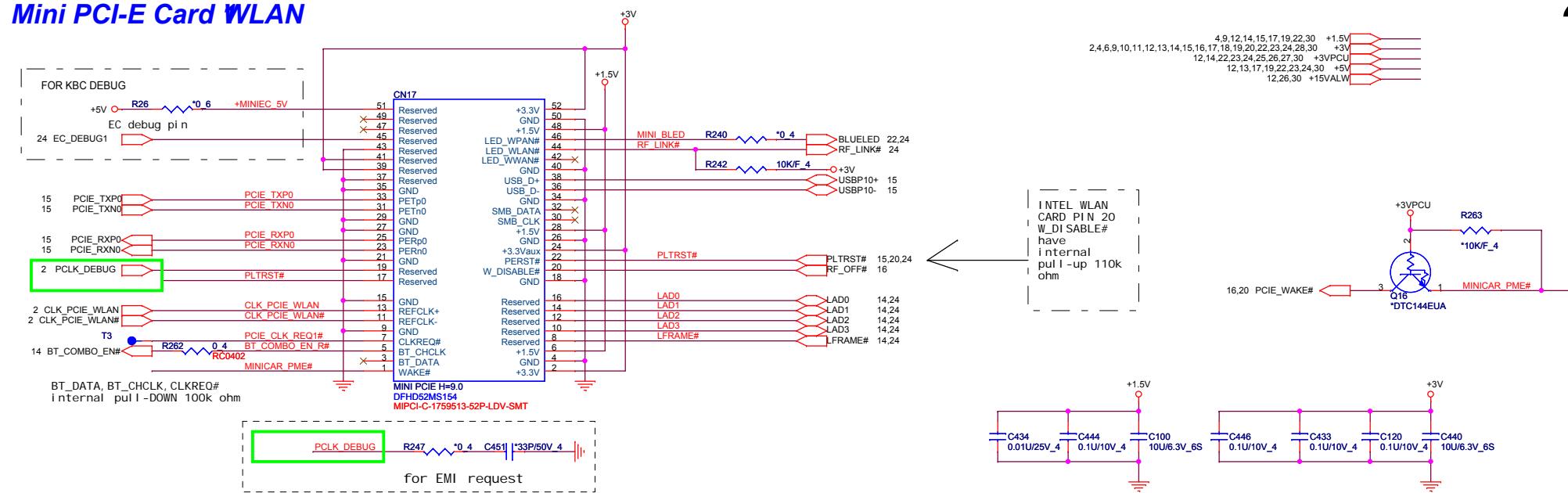


If I isolate the pin  
pull-low, the LAN  
chip will not drive  
its PCI-E

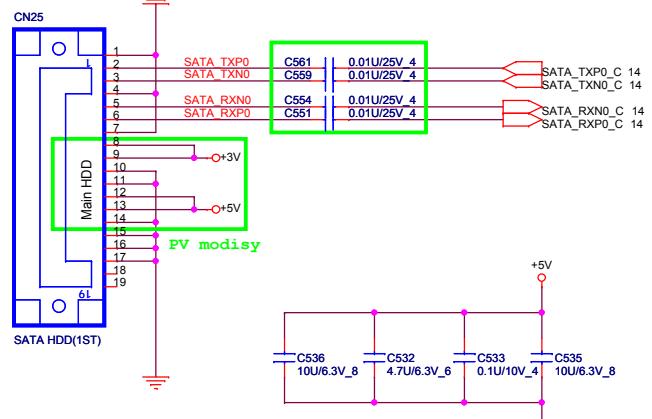
2,4,6,9,10,11,12,13,14,15,16,17,18,19,21,22,23,24,28,30 +3V  
30 +3VLANVCC



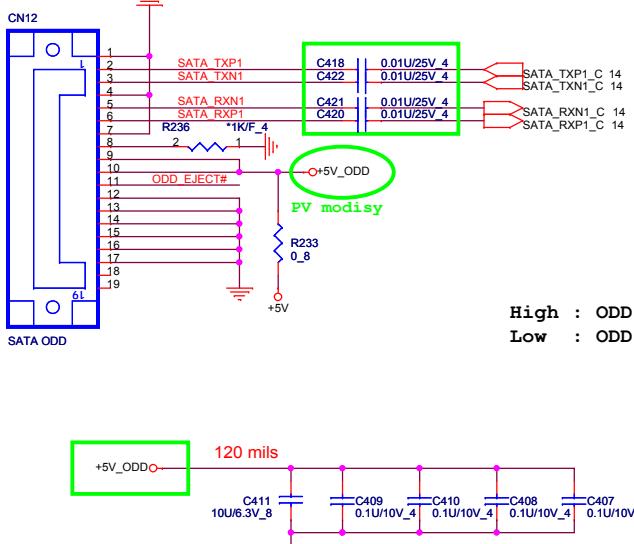
## Mini PCI-E Card WLAN



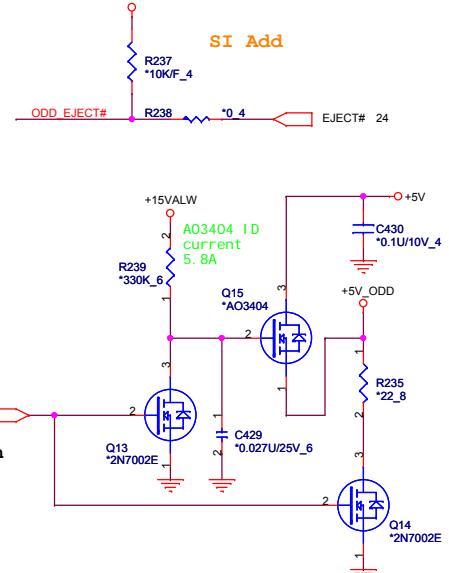
## SATA HDD CONNECTOR



## SATA ODD CONNECTOR



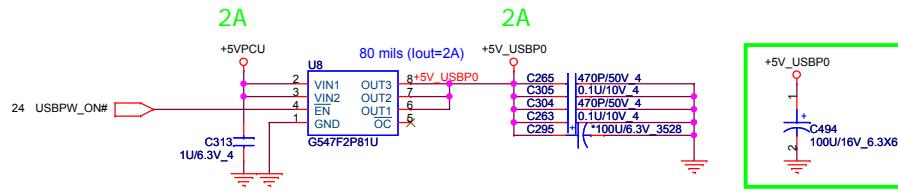
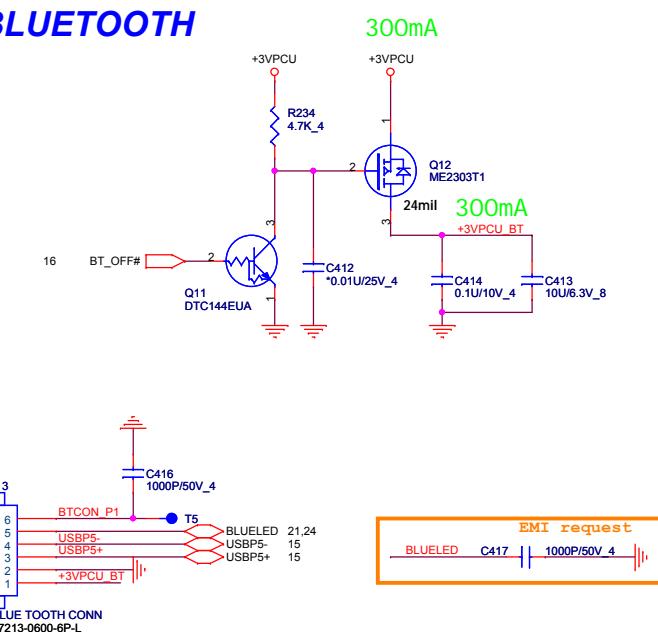
High : ODD power down  
Low : ODD power on



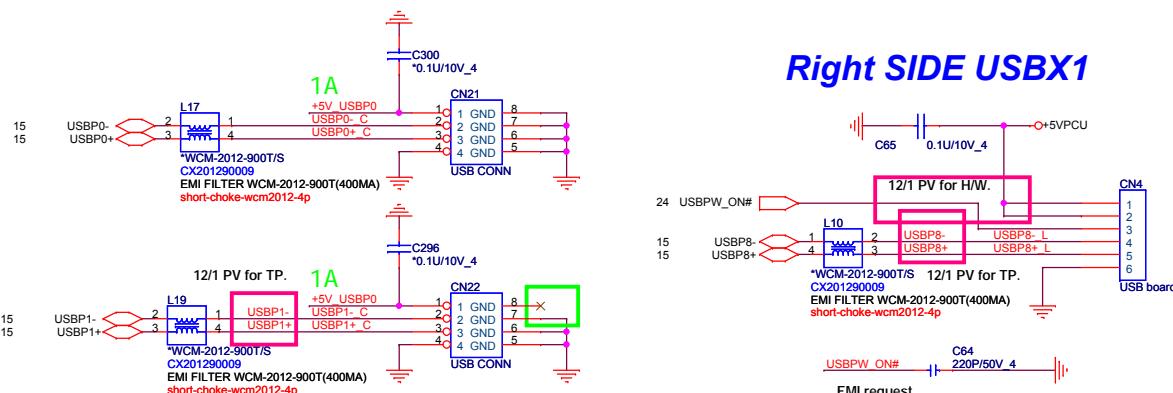
PROJECT :AX3  
Quanta Computer Inc.

Size: Custom	Document Number: HDD/ODD/FAN	Rev: 2A
Date: Thursday, January 07, 2010	Sheet 21 of 30	

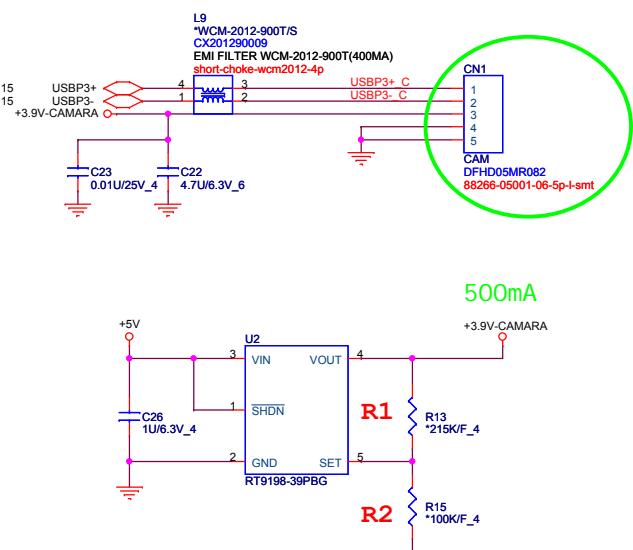
## LEFT SIDE USBX1



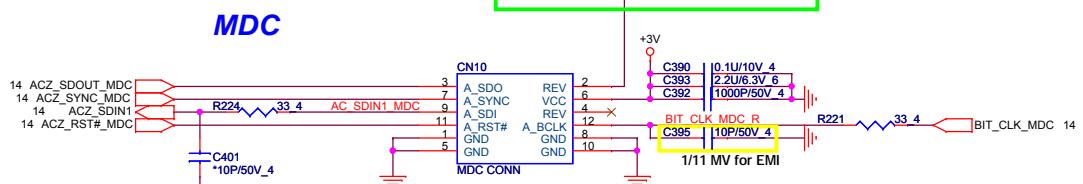
## Right SIDE USBX1



## CAMERA



## Modem CONN



## MDC

4,9,12,14,15,17,19,21,30 +1.5V  
2,4,6,9,10,11,12,13,14,15,16,17,18,19,20,21,23,24,28,30 +3V  
12,14,21,23,24,25,26,27,30 +3VPCU  
12,13,17,19,21,23,24,30 +5V  
23,24,25,26,27,28,29,30 +5VPCU

H14 h-c217d146p2 MBCA6002013  
H13 h-c217d146p2 MBCA6002013

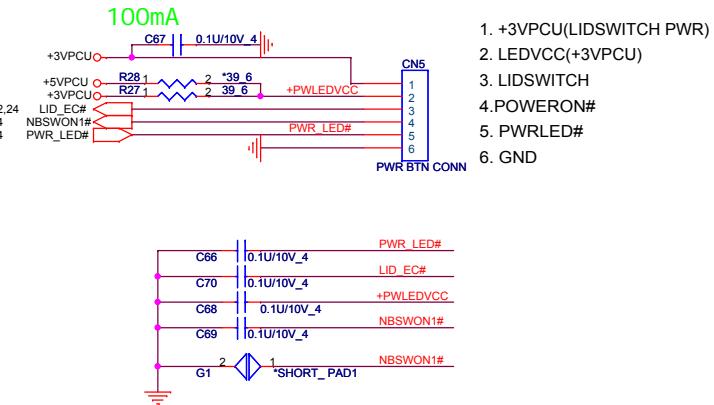
Nut PN:MBCA6002013



PROJECT :AX3  
Quanta Computer Inc.

Size	Document Number	Rev
Custom	USB/BT/CAMERA/Modem	2A
Date: Monday, January 11, 2010	Sheet 22 of 30	

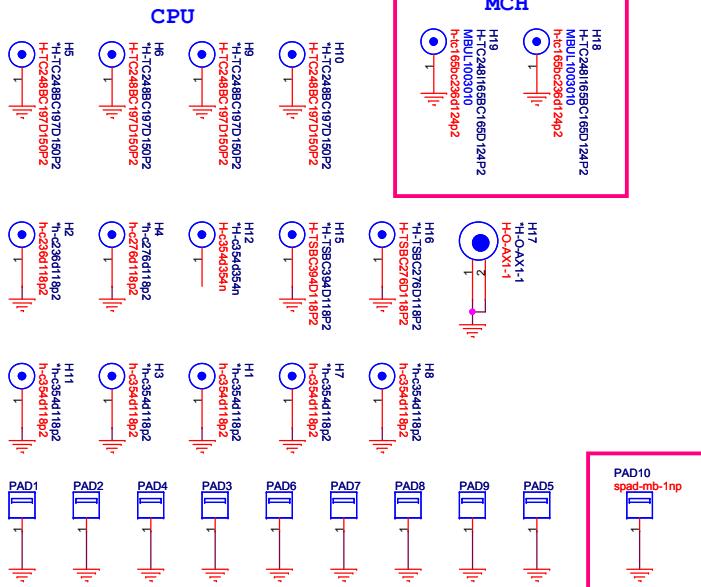
## **POWER BOTTOM CONNECT**



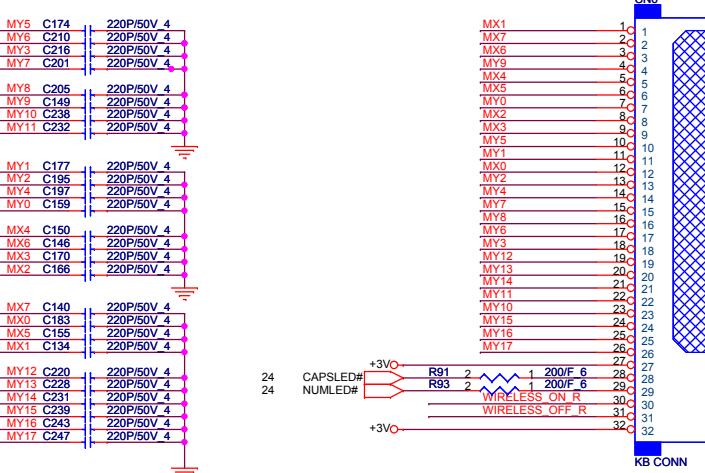
SATA LED



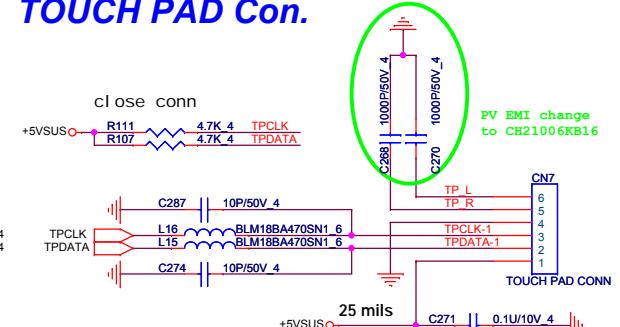
# **HOLE & PAD**



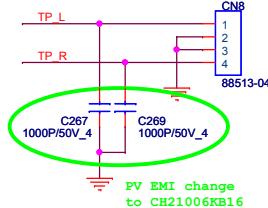
## **KEYBOARD Con.**



## **TOUCH PAD Con.**



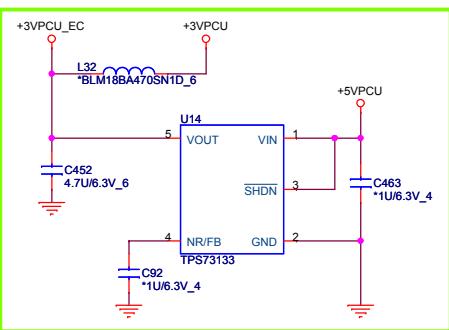
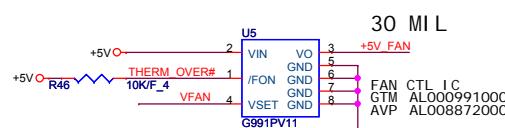
## To TOUCH PAD SW board



**PROJECT :AX3**  
Quanta Computer Inc.

Document Number  
**KB/TP/SW/LED/Hole**

## CPU FAN

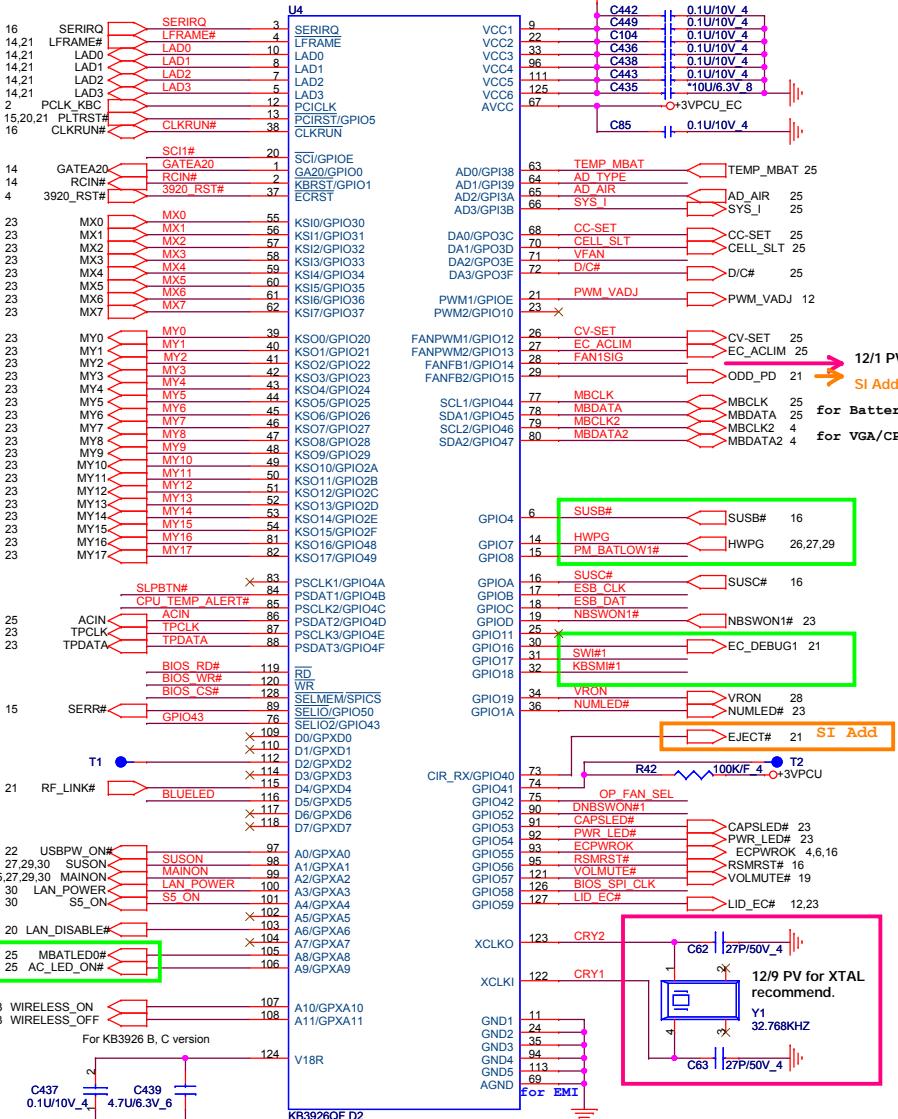


12/1 PV for H/W.

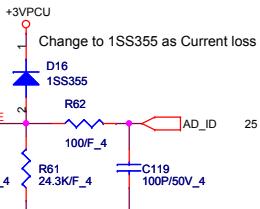
SI Add

for Battery charge/charge and cap board

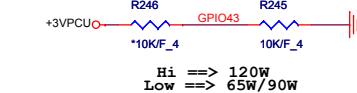
for VGA/CPU thermal



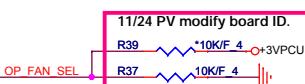
## adapter Type check



## Adapter select for EC

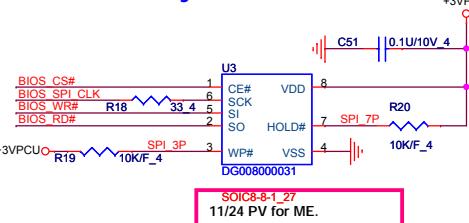


## GPIO42 control fan table



Project Model	GPIO42
AX 14"	High
AX 15.6"	Low
AX 17.3"	Medium (1.5V)

## 1M byte SPI EC ROM



Socket: DG008000031  
WINBOND AKE3GZN0N00  
EON AKE3GZP0Q00  
AIT AKE3GZP0801  
MAX AKE5GFK0Z09

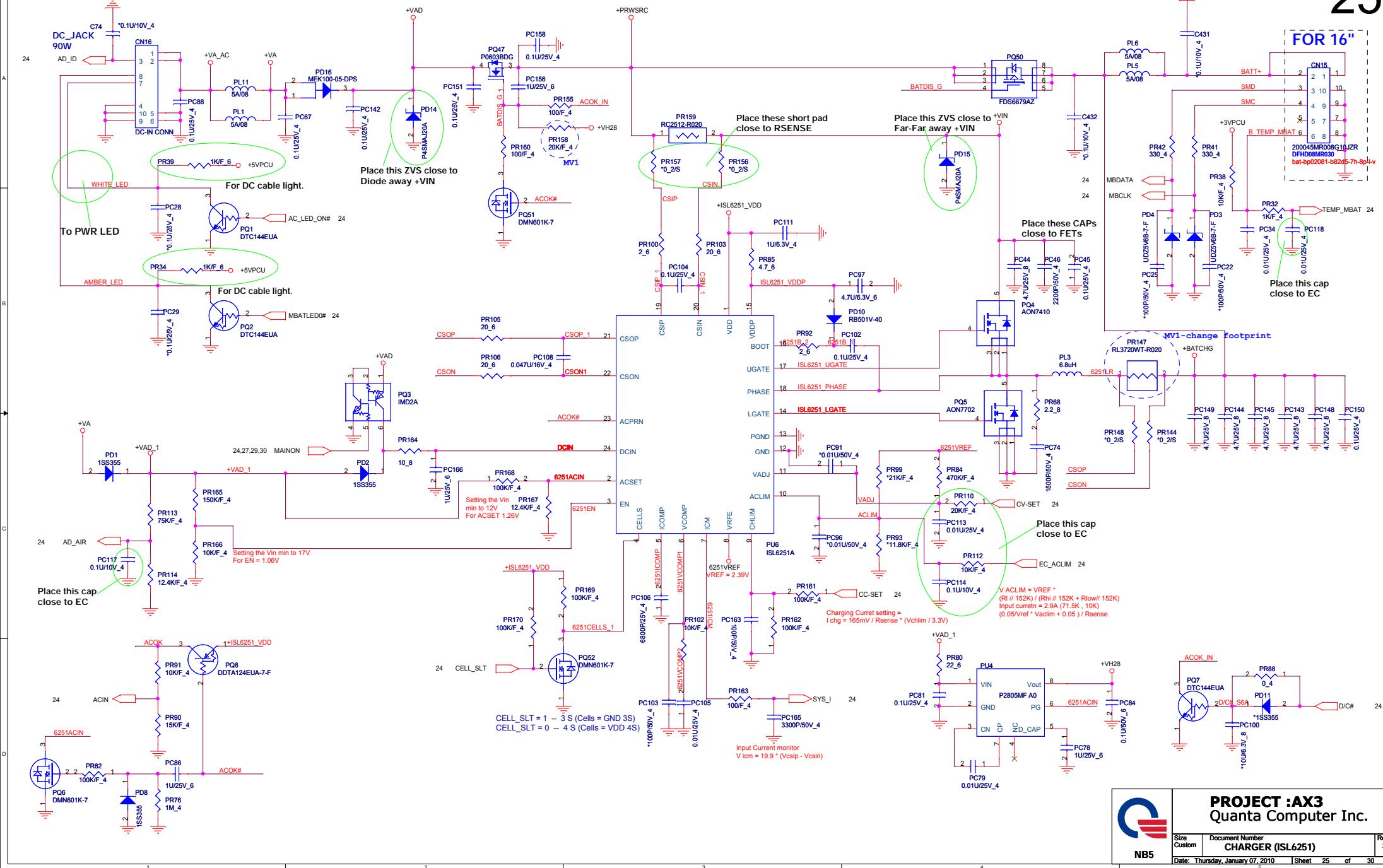
2,4,6,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,28,30  
12,14,21,22,23,25,26,27,30 +3VPCU  
12,13,17,19,21,22,23,30 +5V  
22,23,25,26,27,28,29,30 +5VPCU



PROJECT :AX3  
Quanta Computer Inc.

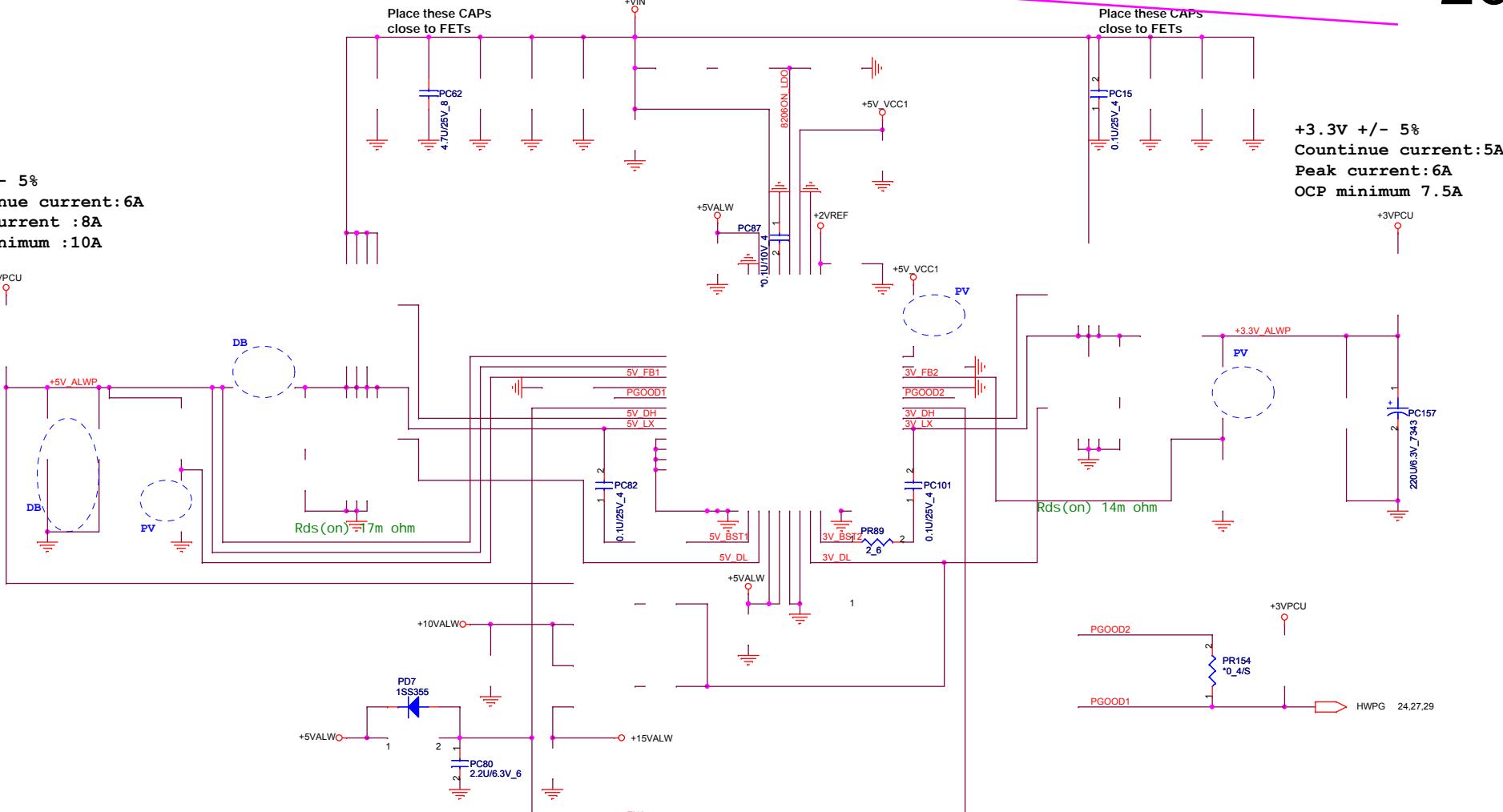
Size Custom	Document Number	Rev 2A
	EC (KB3926)/ROM	

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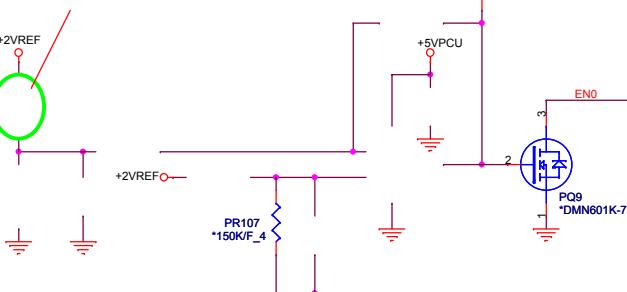


## DC/DC +3V\_ALW/+5V\_ALW/+5V\_ALW2 /+15V\_ALW

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



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

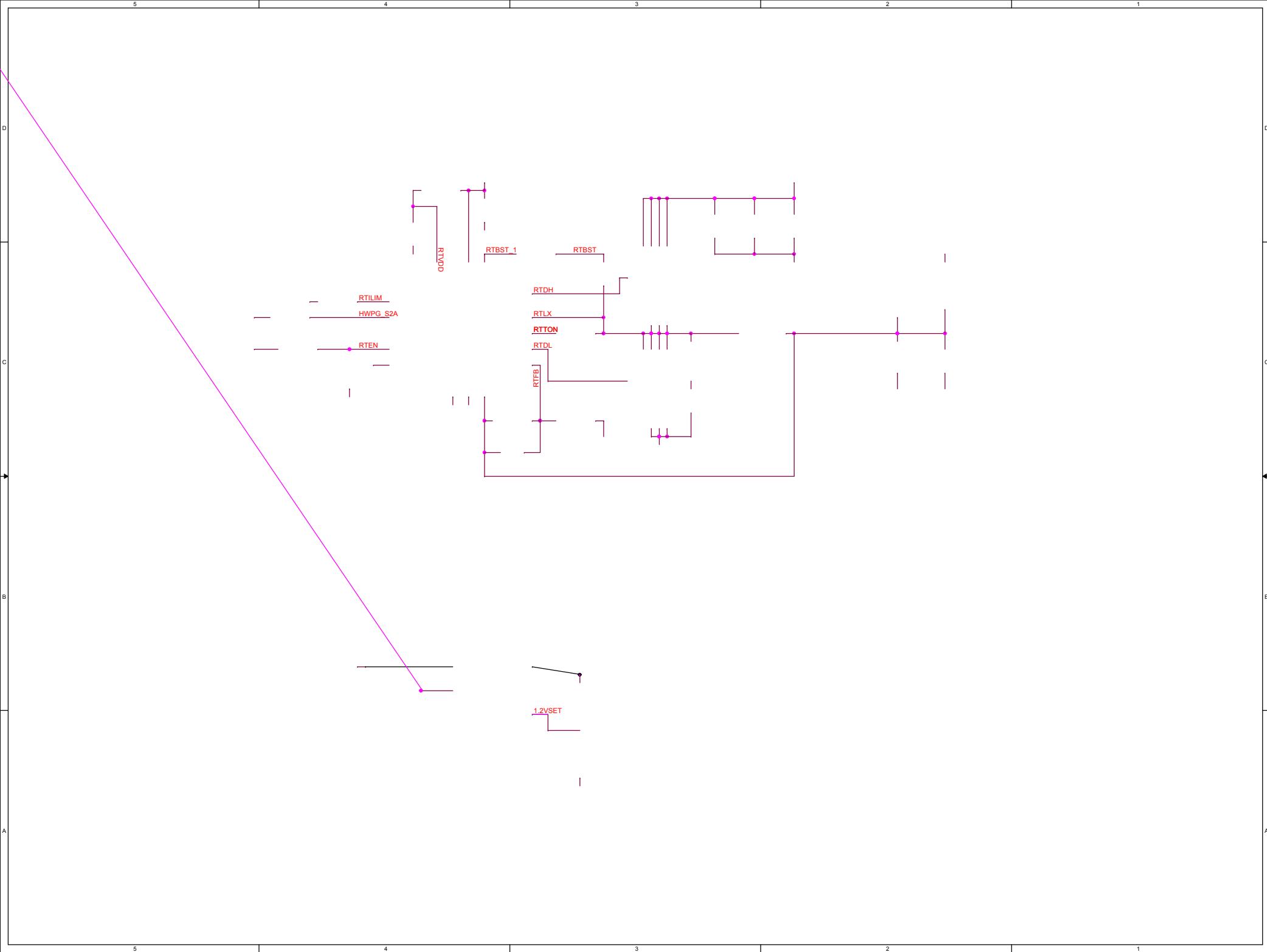


PROJECT :AX3  
Quanta Computer Inc.

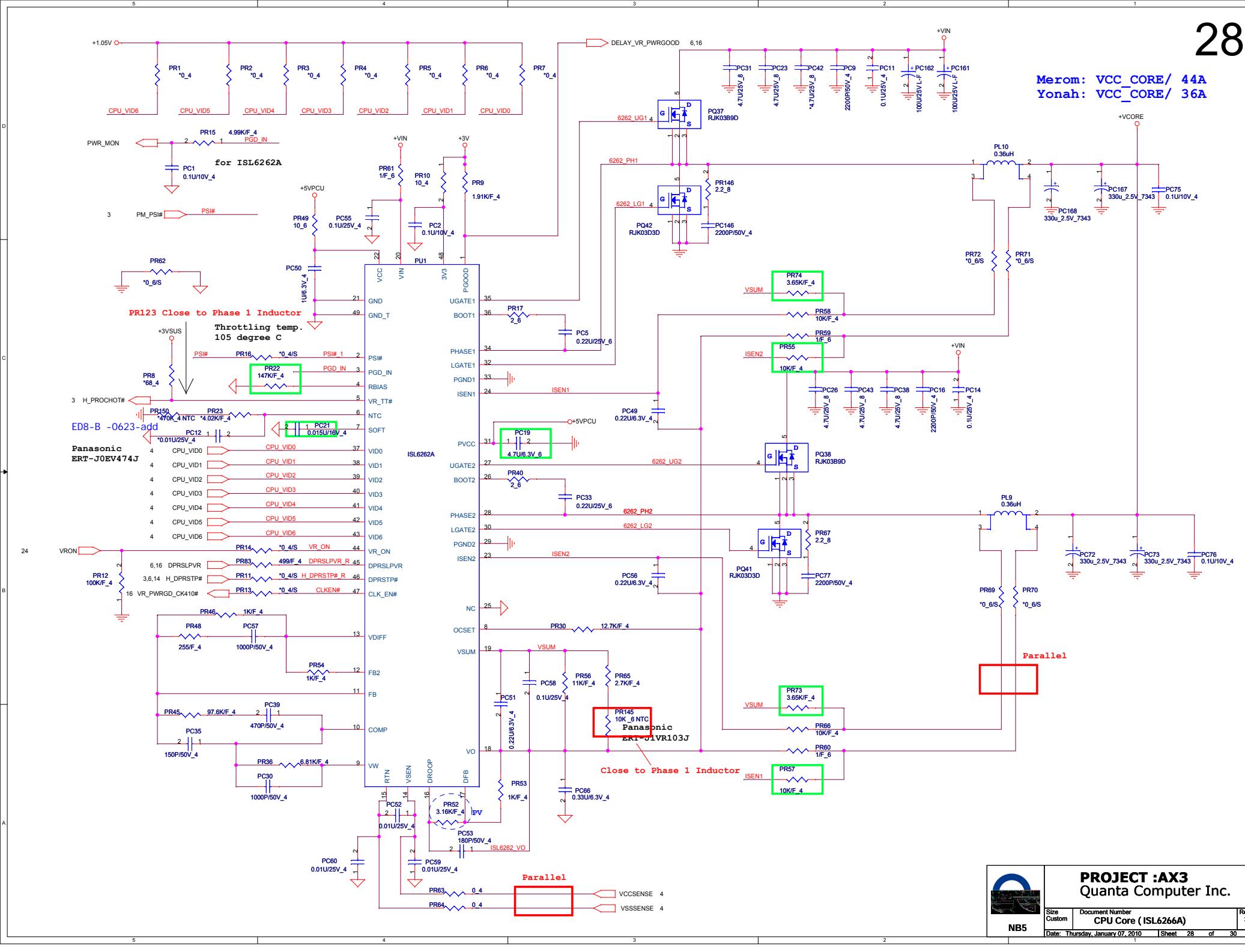
Size Custom Document Number +5V+3V (RT8206B) Rev 2A

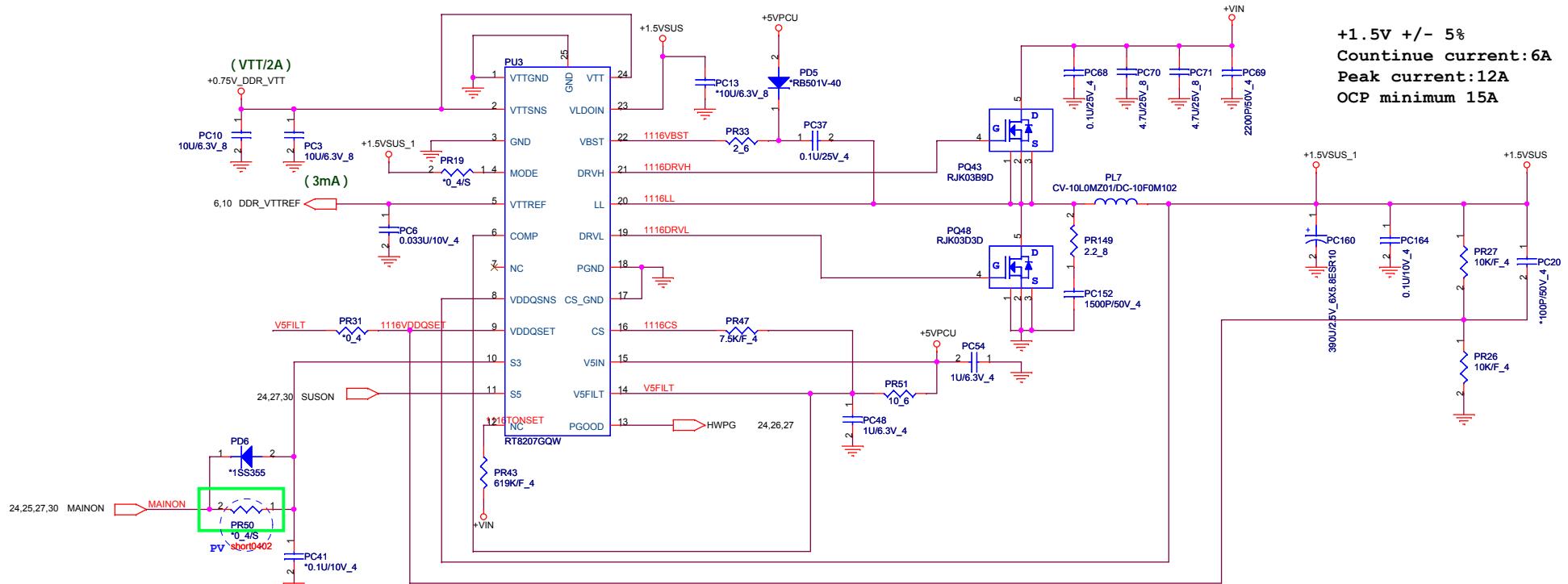
Date: Thursday, January 07, 2010 Sheet 26 of 30

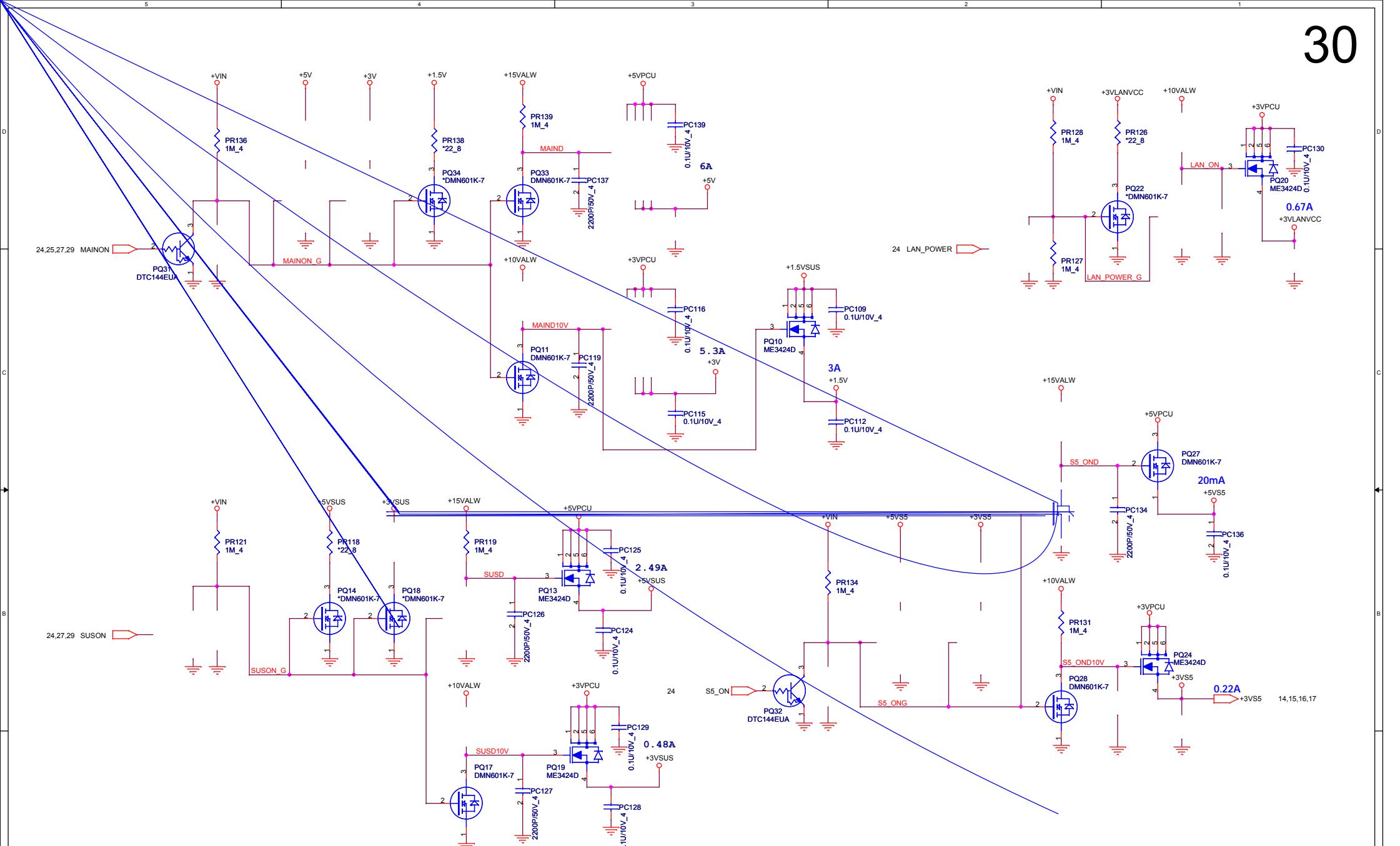
NB5



Merom: VCC\_CORE/ 44A  
Yonah: VCC\_CORE/ 36A







PROJECT :AX3  
Quanta Computer Inc.

Size Custom	Document Number	Rev 2A
	DISCHARGE/3VS5/5VS5/LAN	
Date: Thursday, January 07, 2010	Sheet 30 of 30	1