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			33	3A	
34			3A		



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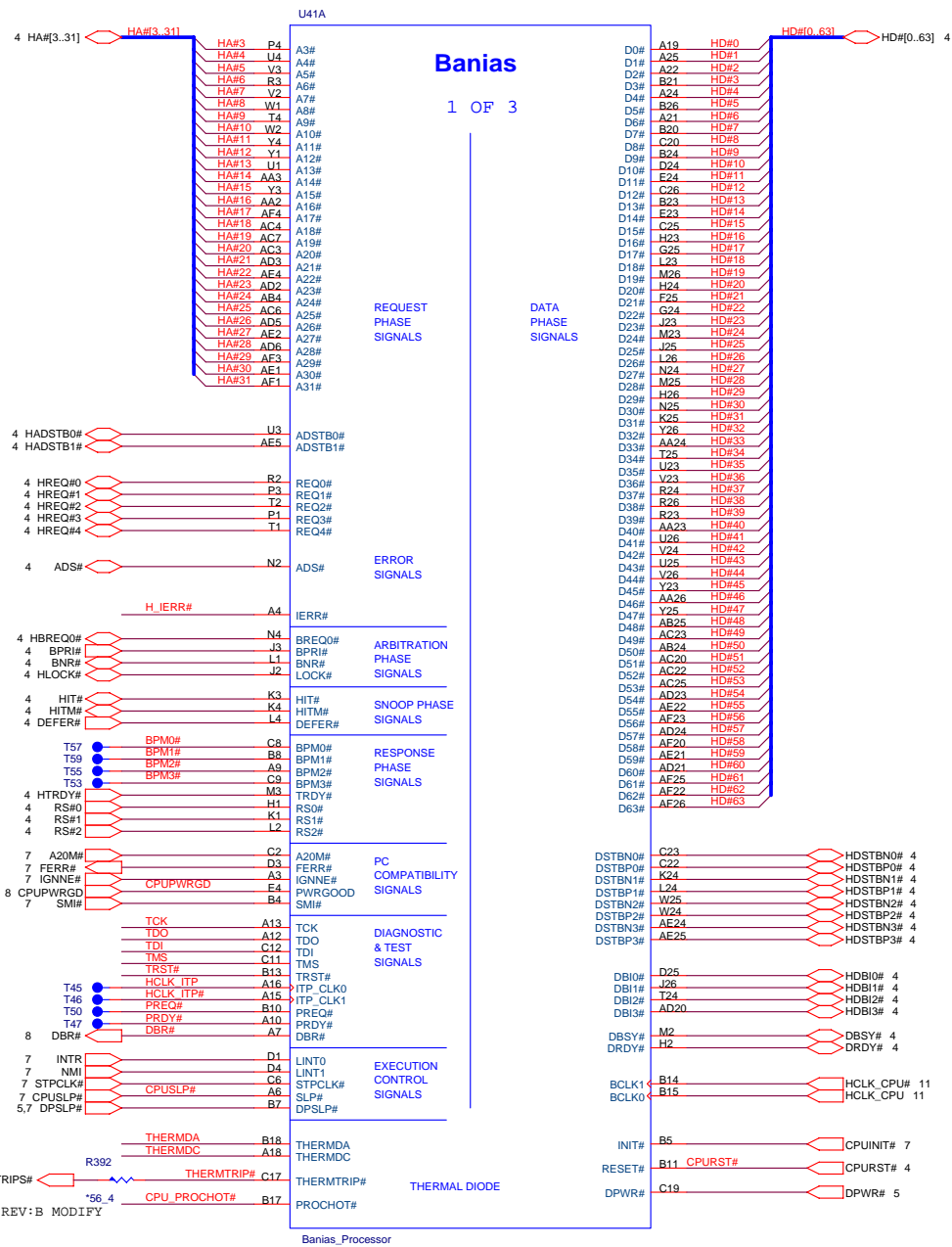
**MINI-USB**  
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PCI ROUTING TABLE	IDSEL	INTERUPT	DEVICE
REQ0# / GNT0#	AD18	INTA#	M11
REQ1# / GNT1#	AD20	INTD#	BROADCOM LAN
REQ2# / GNT2#	AD23	INTB# , INTC#	MINI-PCI
REQ3# / GNT3#	AD22	INTE# , INTF# , INTG#	TI 7411

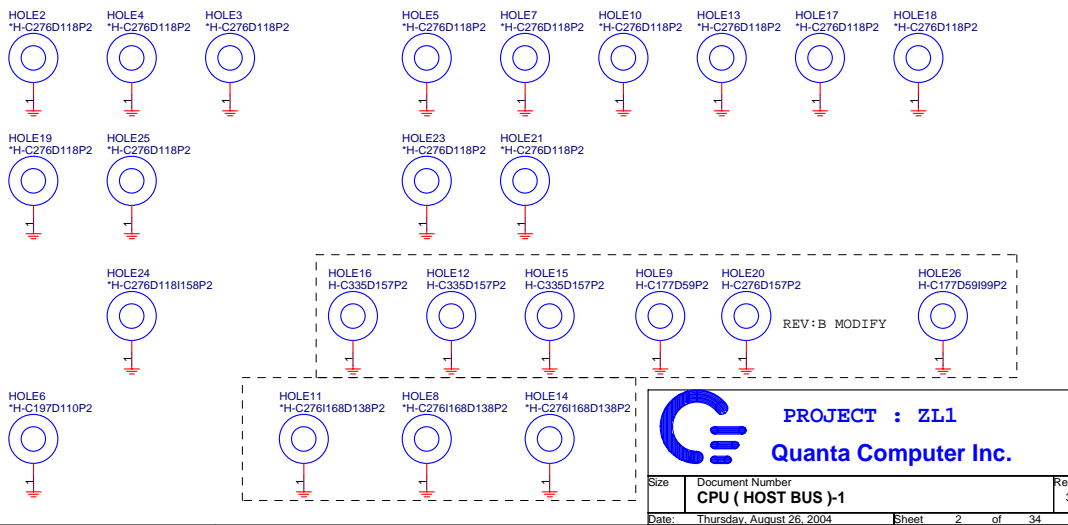
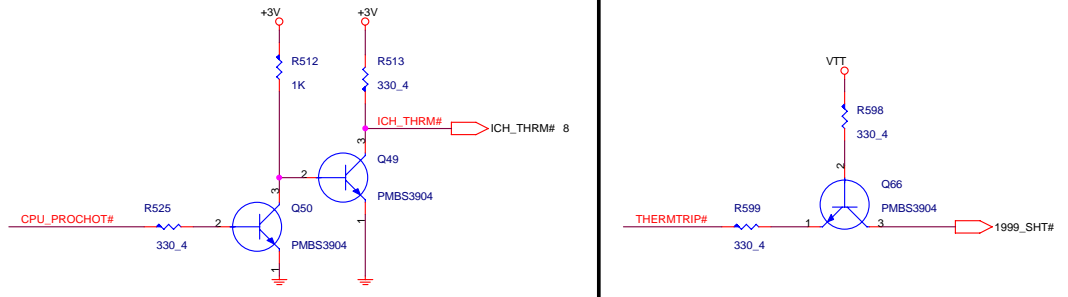
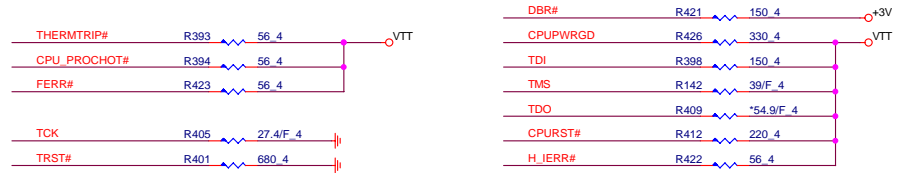
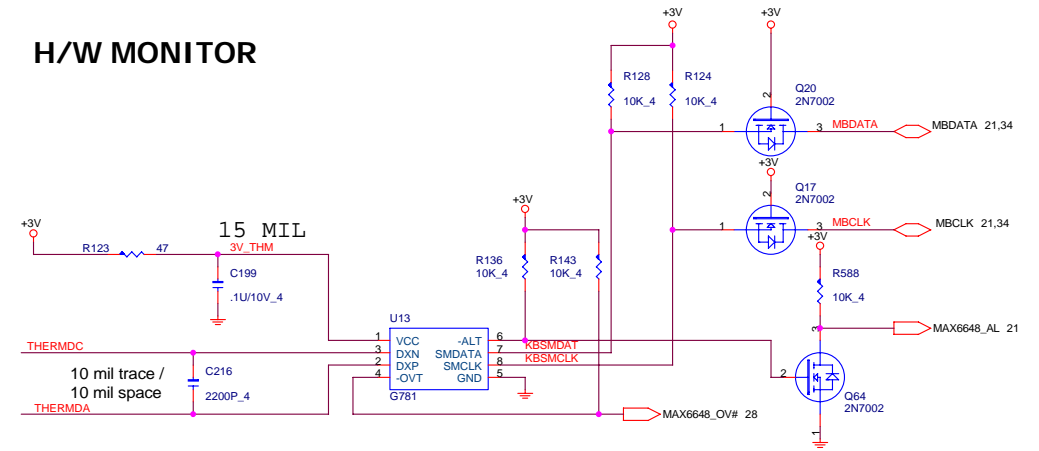
PM : 紀明進 Sunyu Jih  
EE Laerer : 許高銘 Jim Hsu  
ME Leader : 林哲敏 Mill Lin

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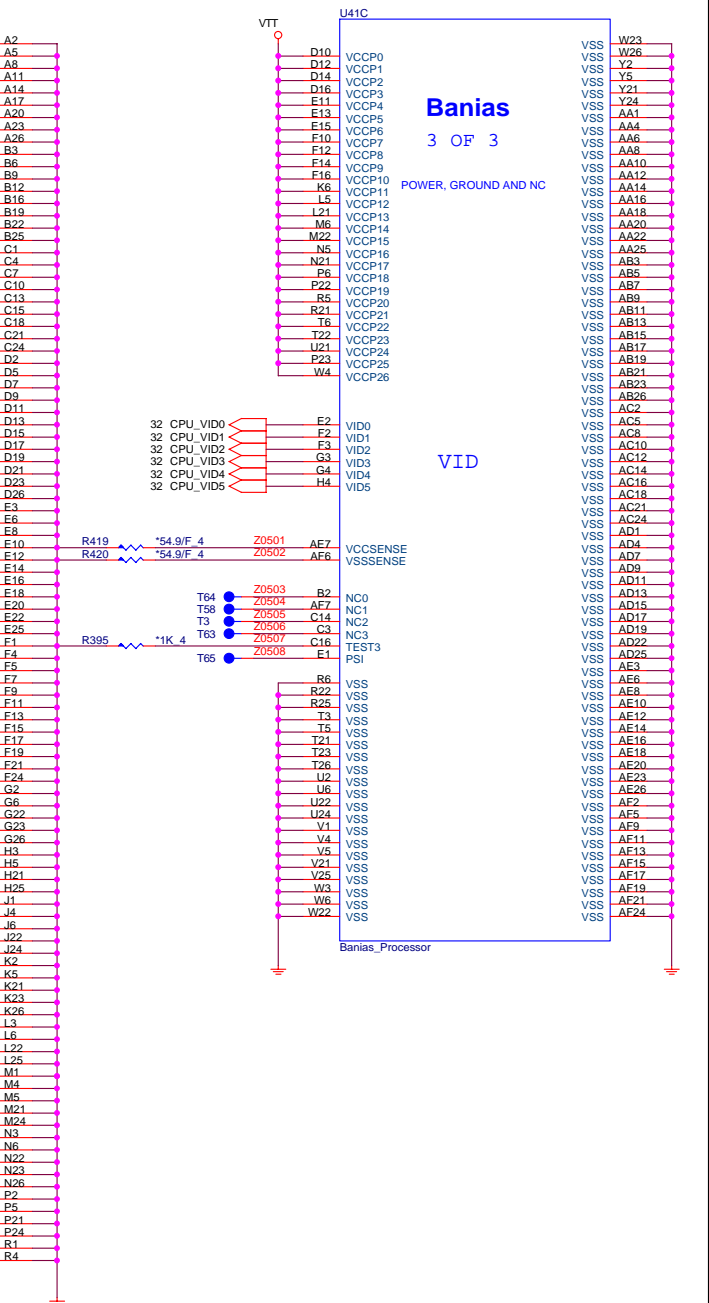
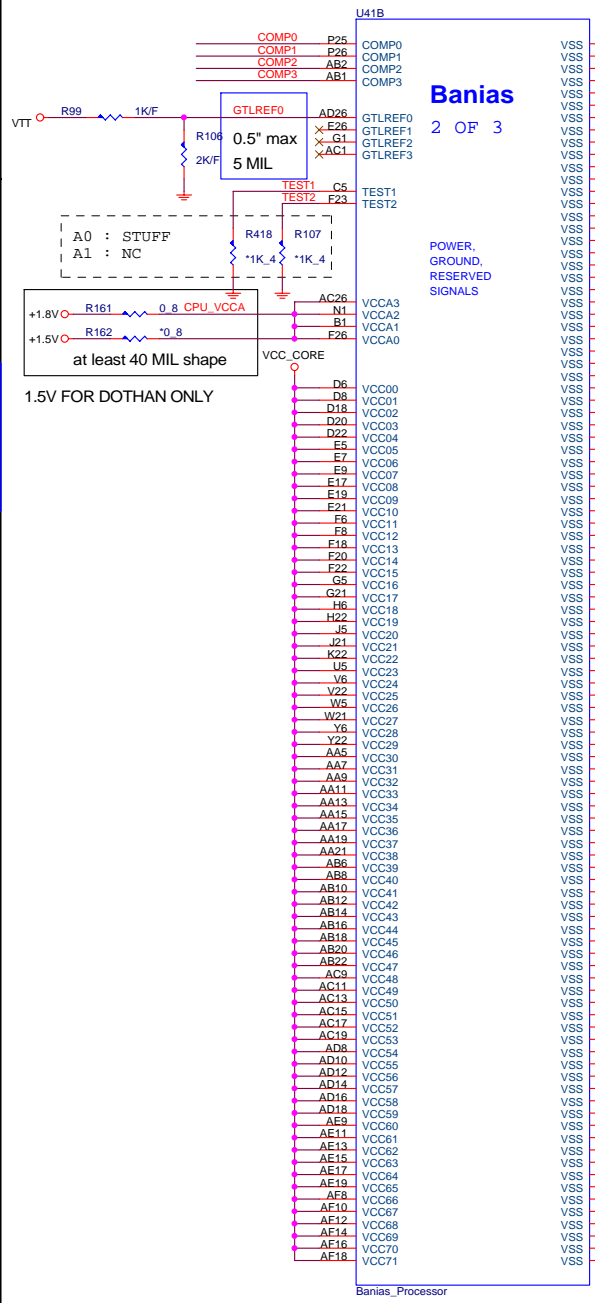
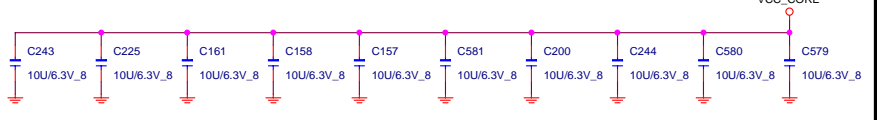
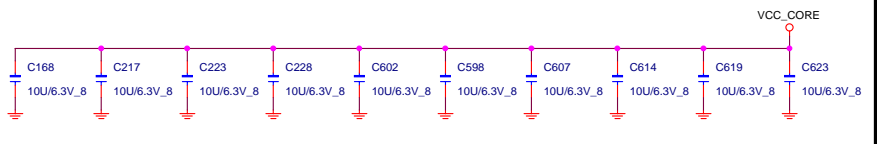
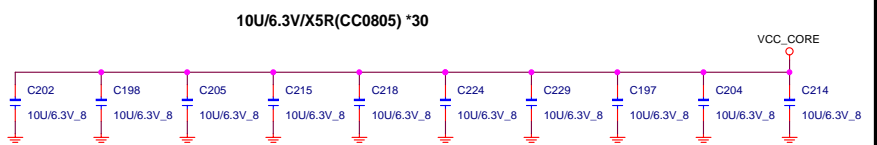
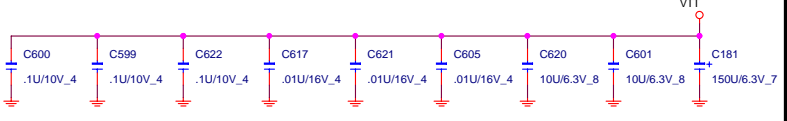
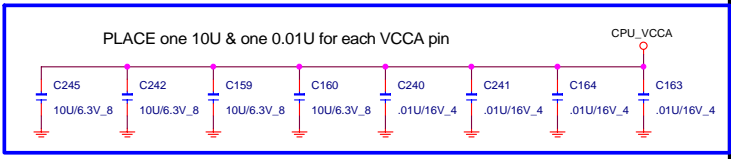
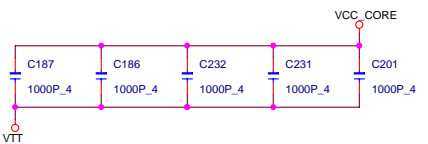
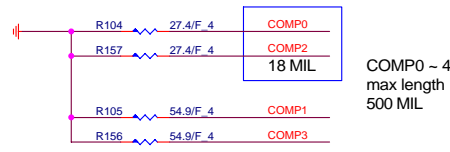
### H/W MONITOR

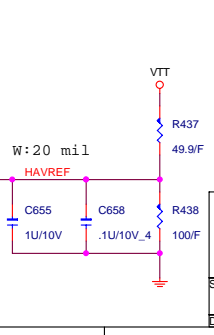
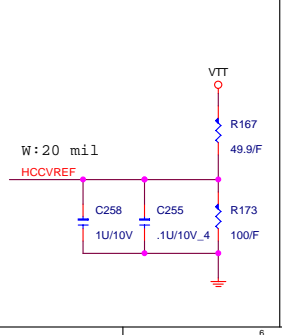
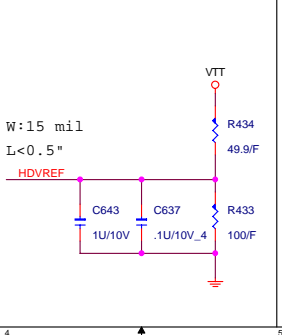
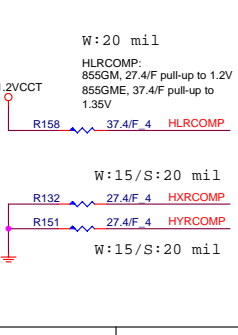
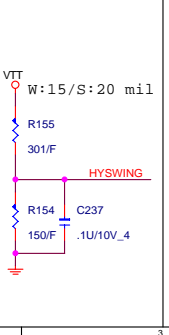
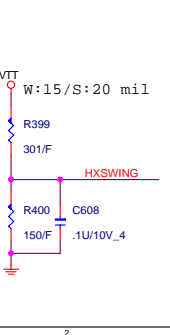
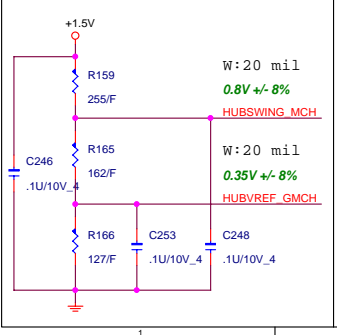
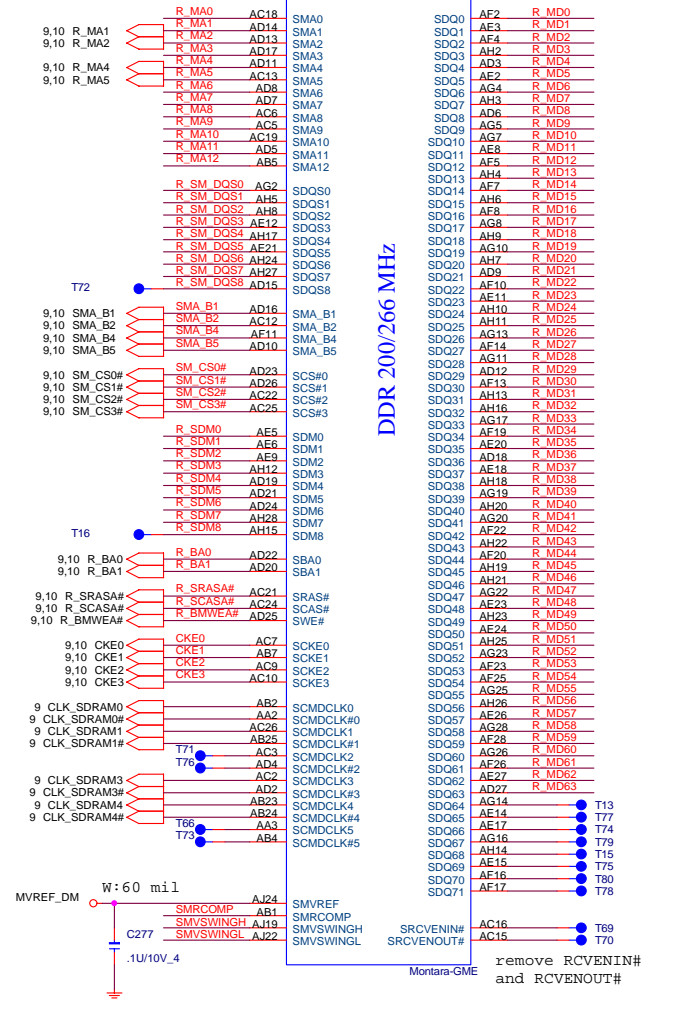
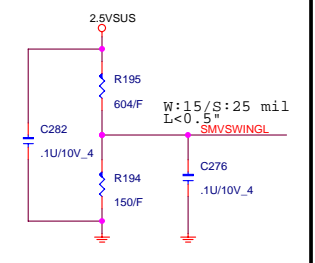
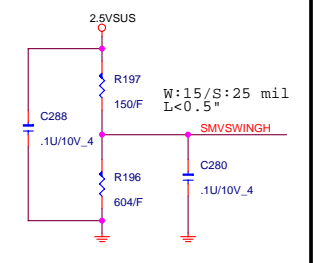
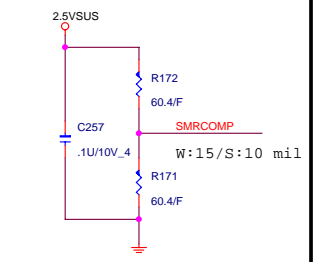
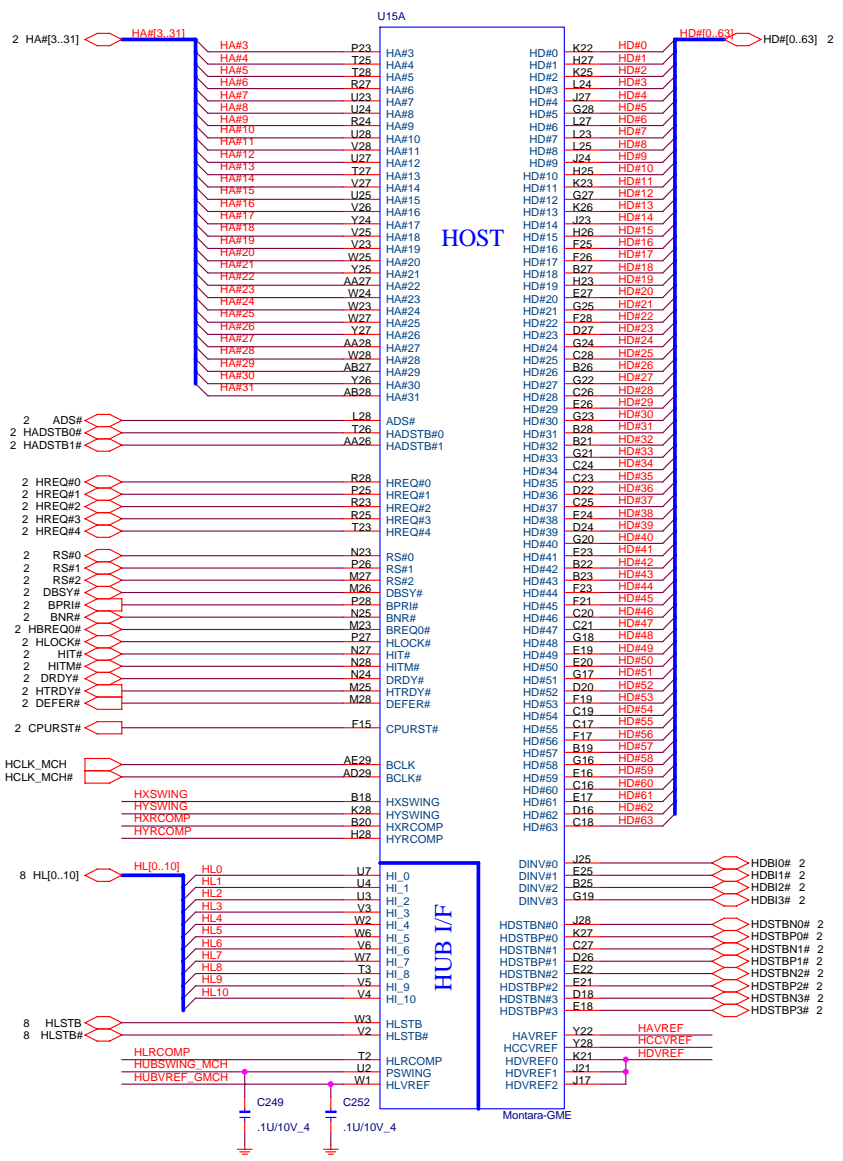


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**CPU (HOST BUS)-1**

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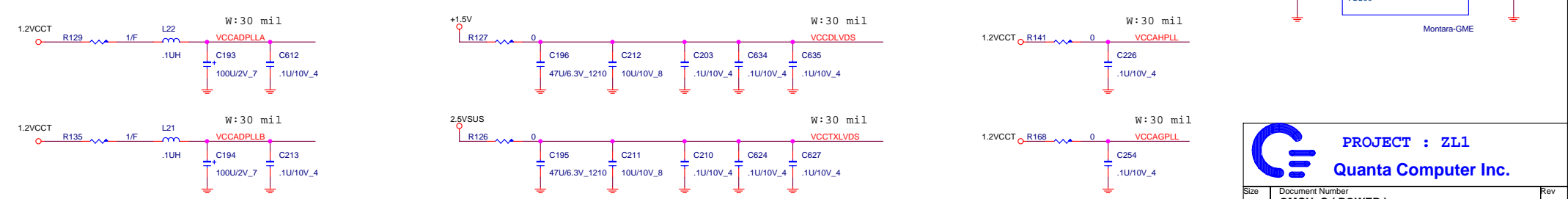
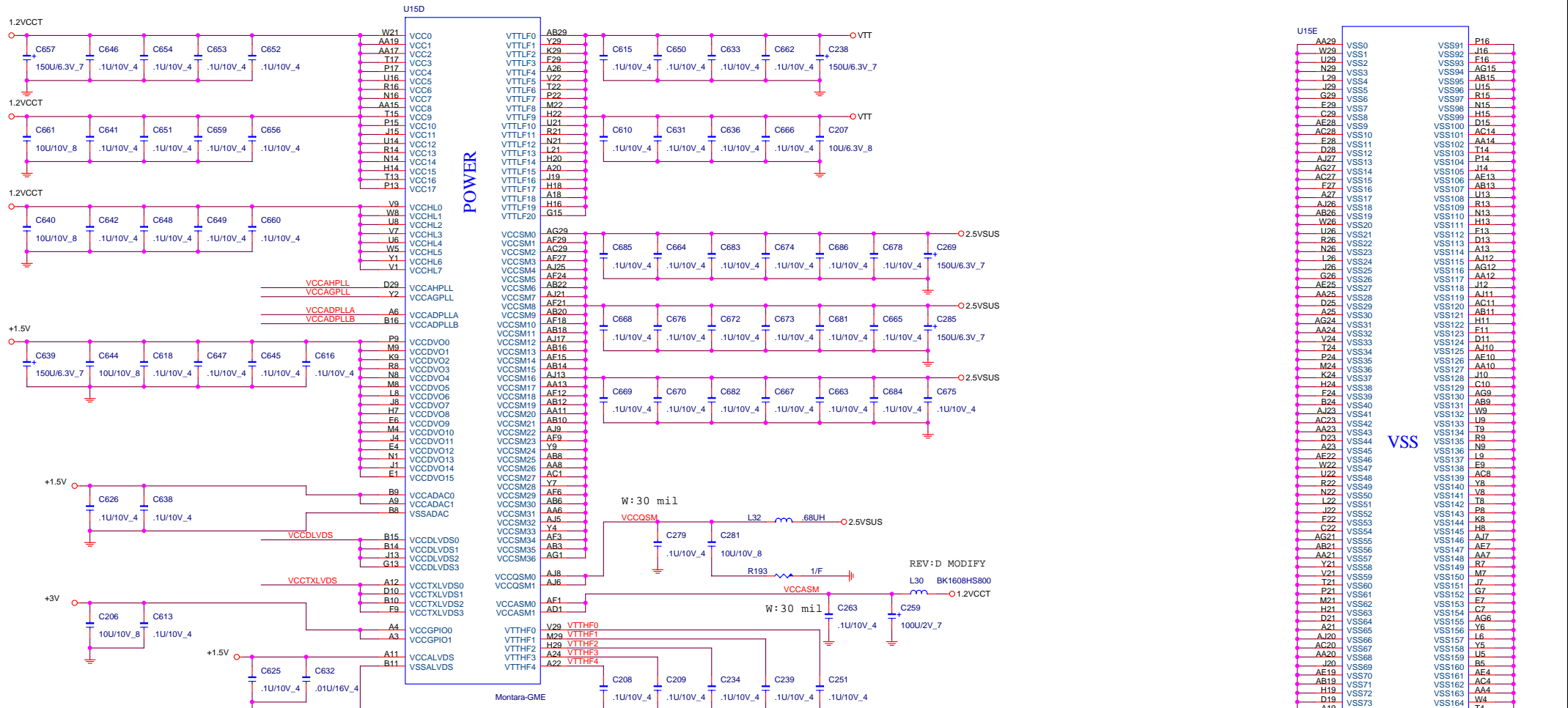




**PROJECT : ZL1**  
**Quanta Computer Inc.**

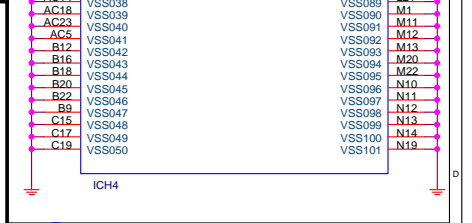
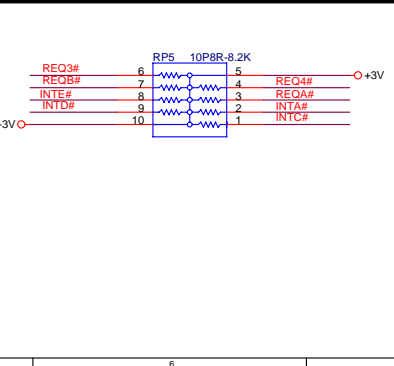
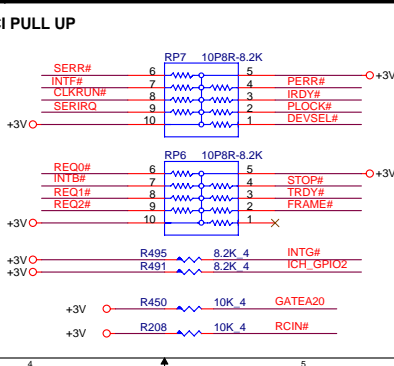
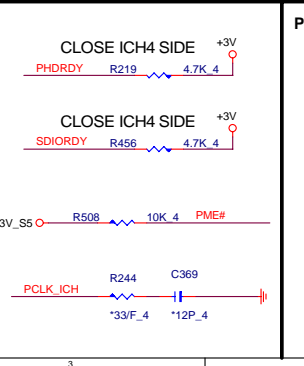
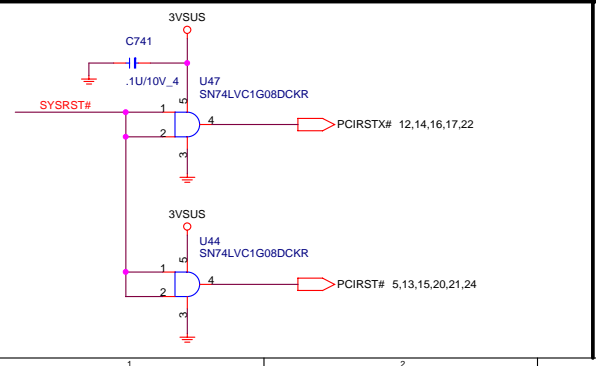
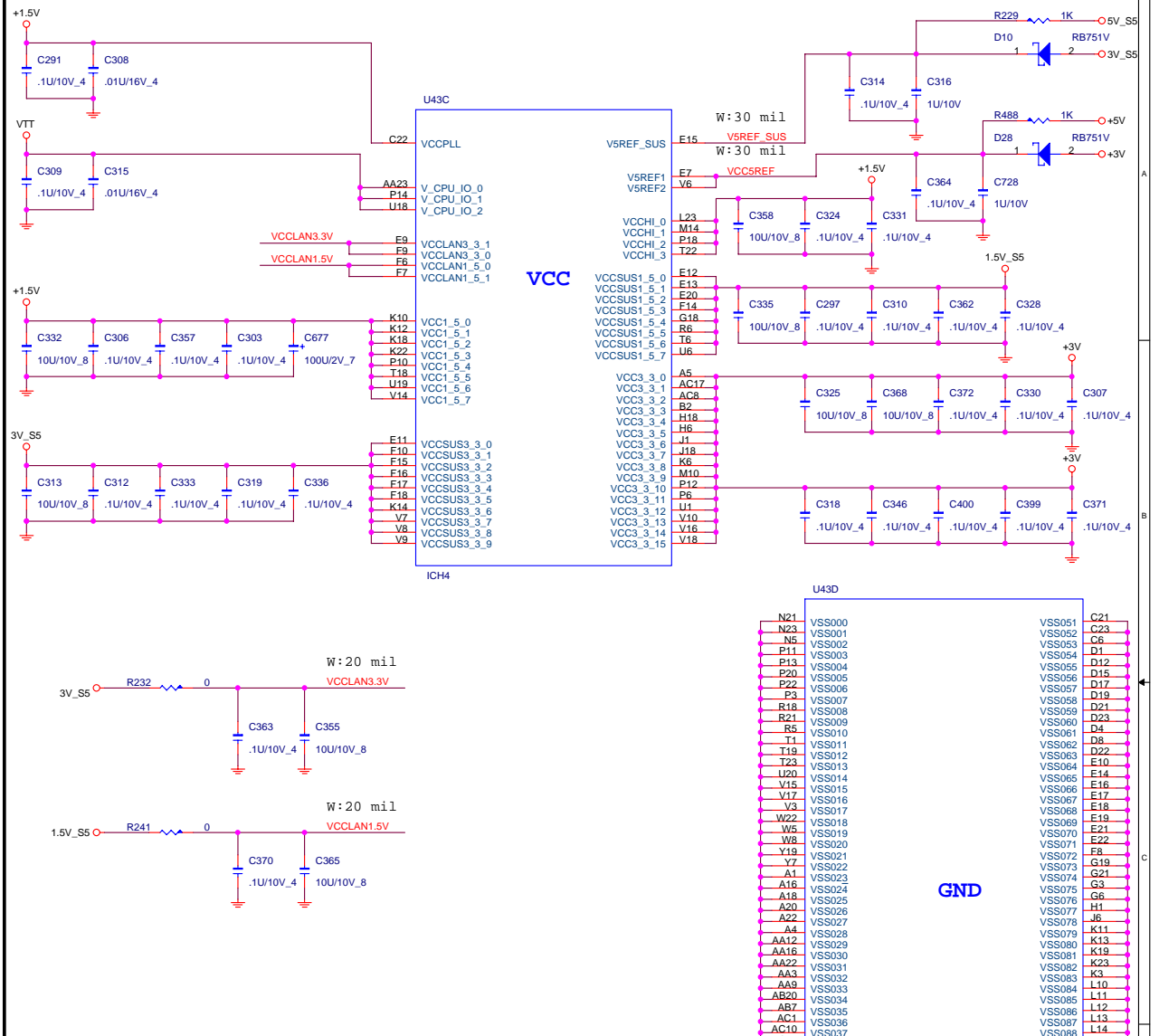
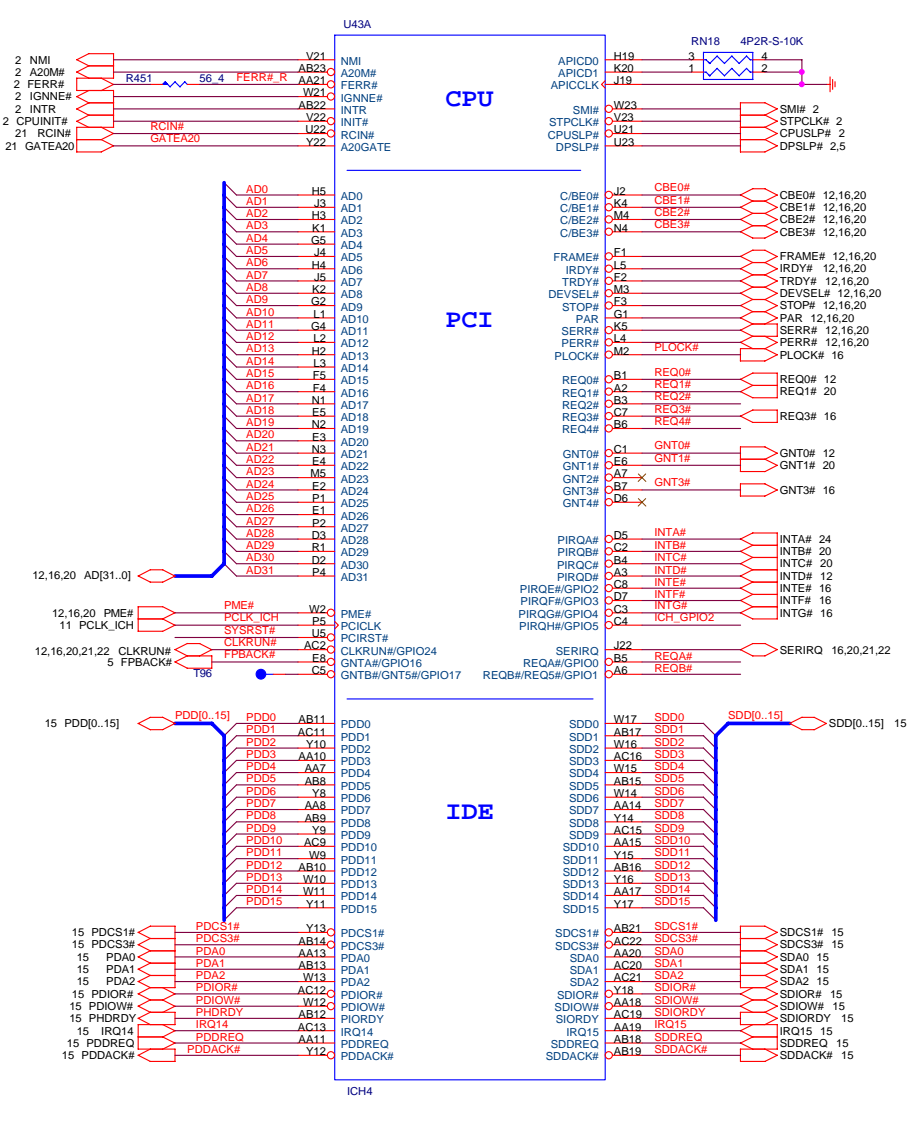
Size	Document Number	Rev
	<b>GMCH_A (HOST &amp; DDR)</b>	2A
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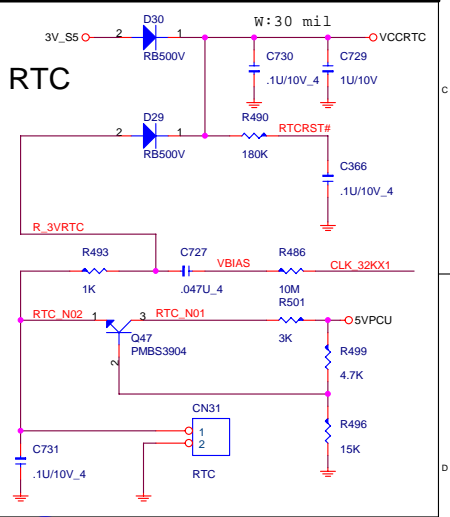
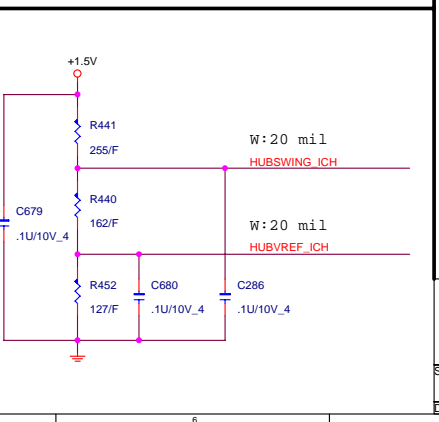
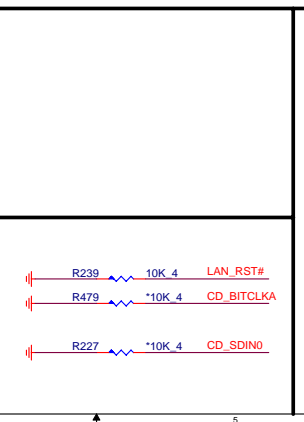
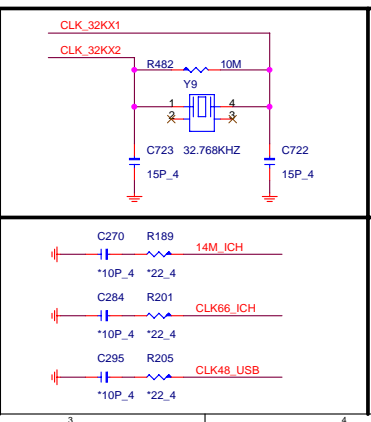
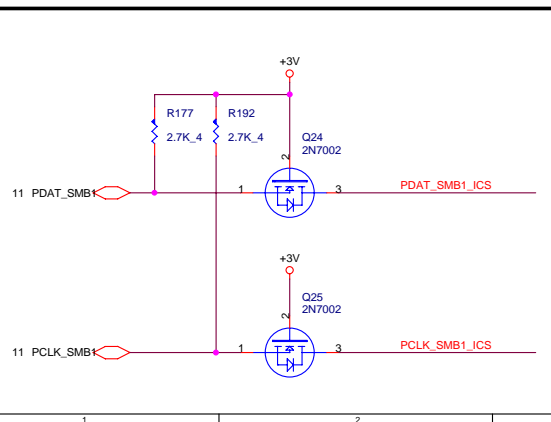
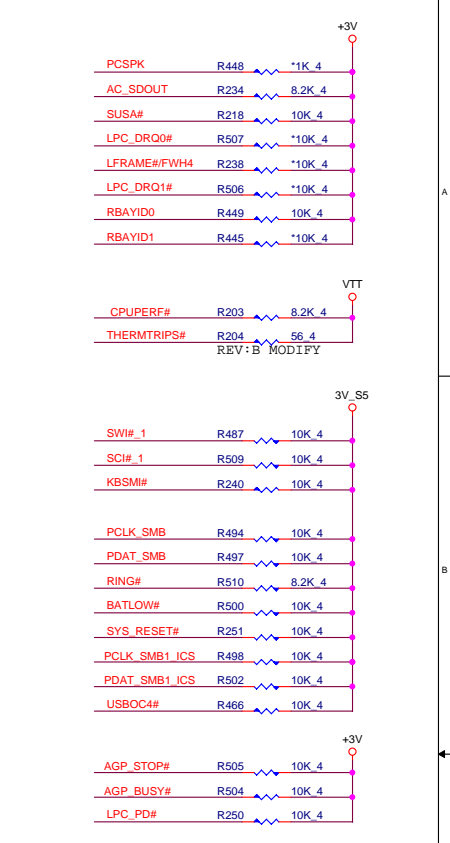
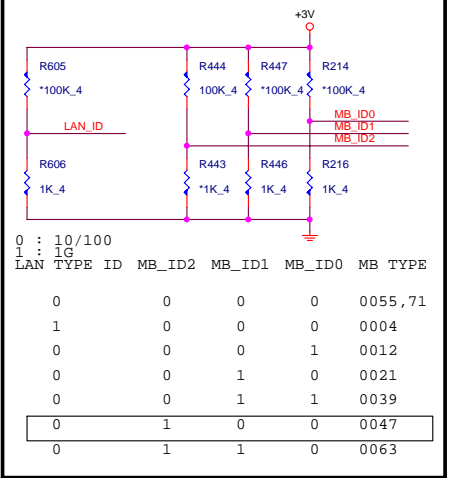
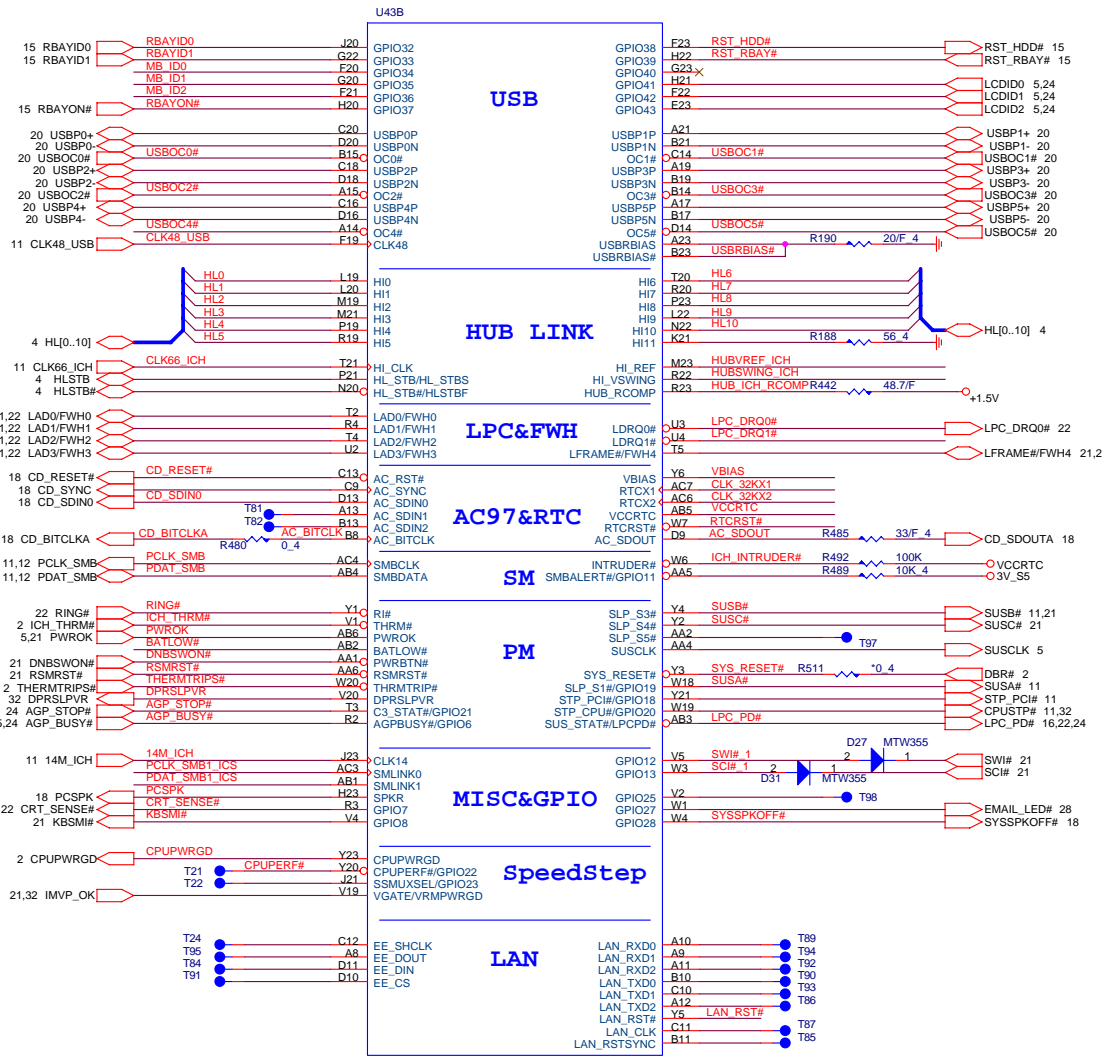


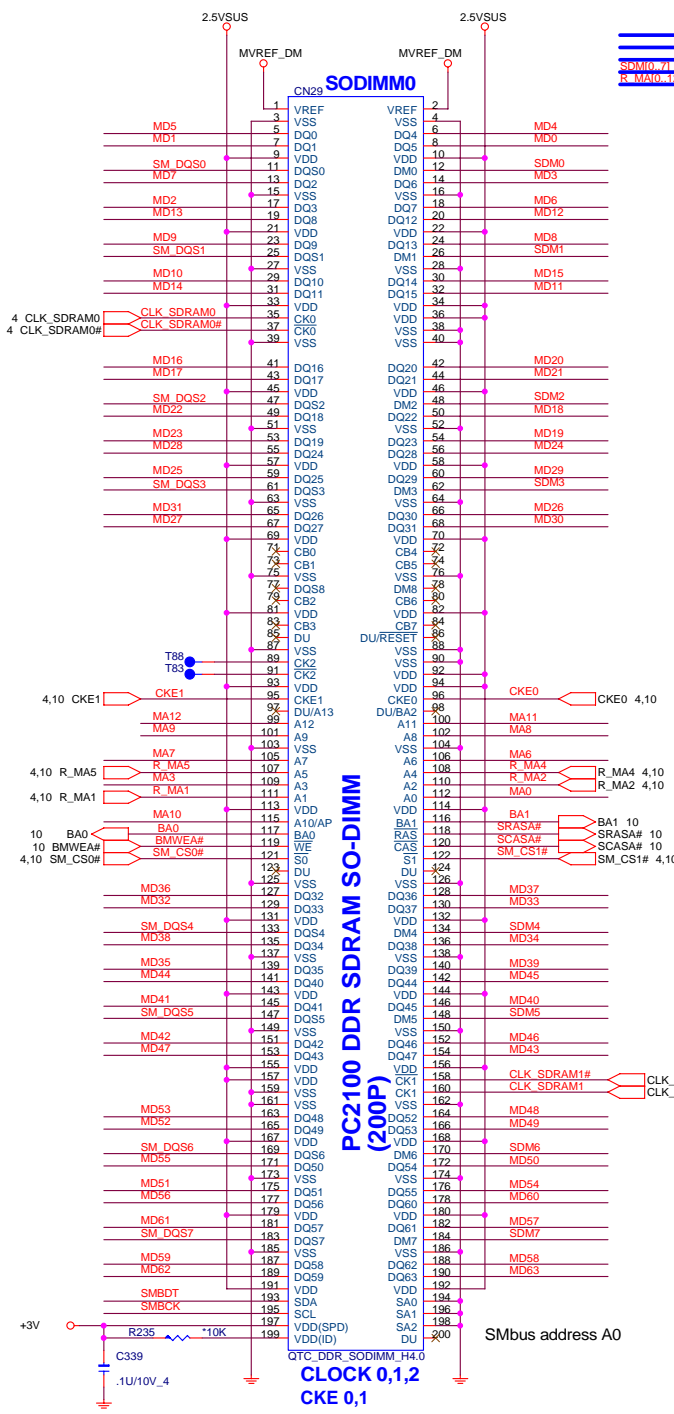
**PROJECT : ZL1**  
**Quanta Computer Inc.**

Size	Document Number	Rev
	<b>GMCH_C ( POWER )</b>	3B
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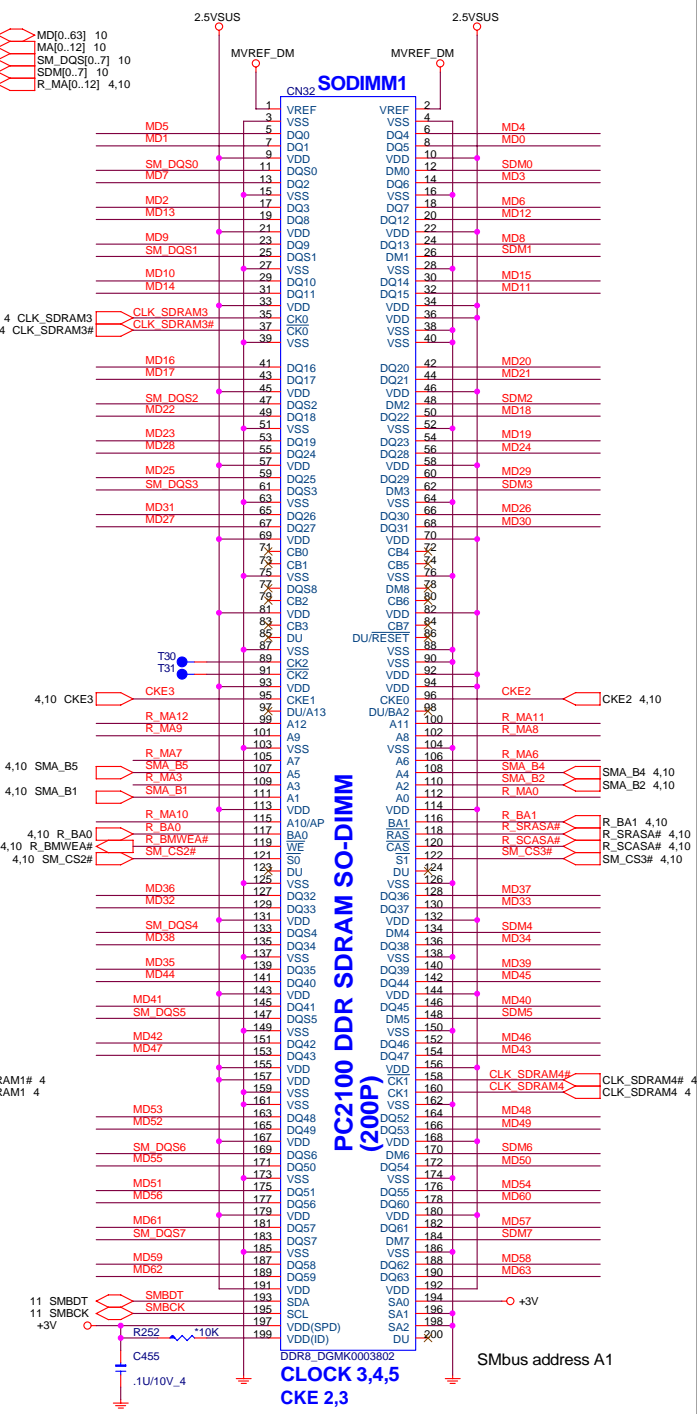






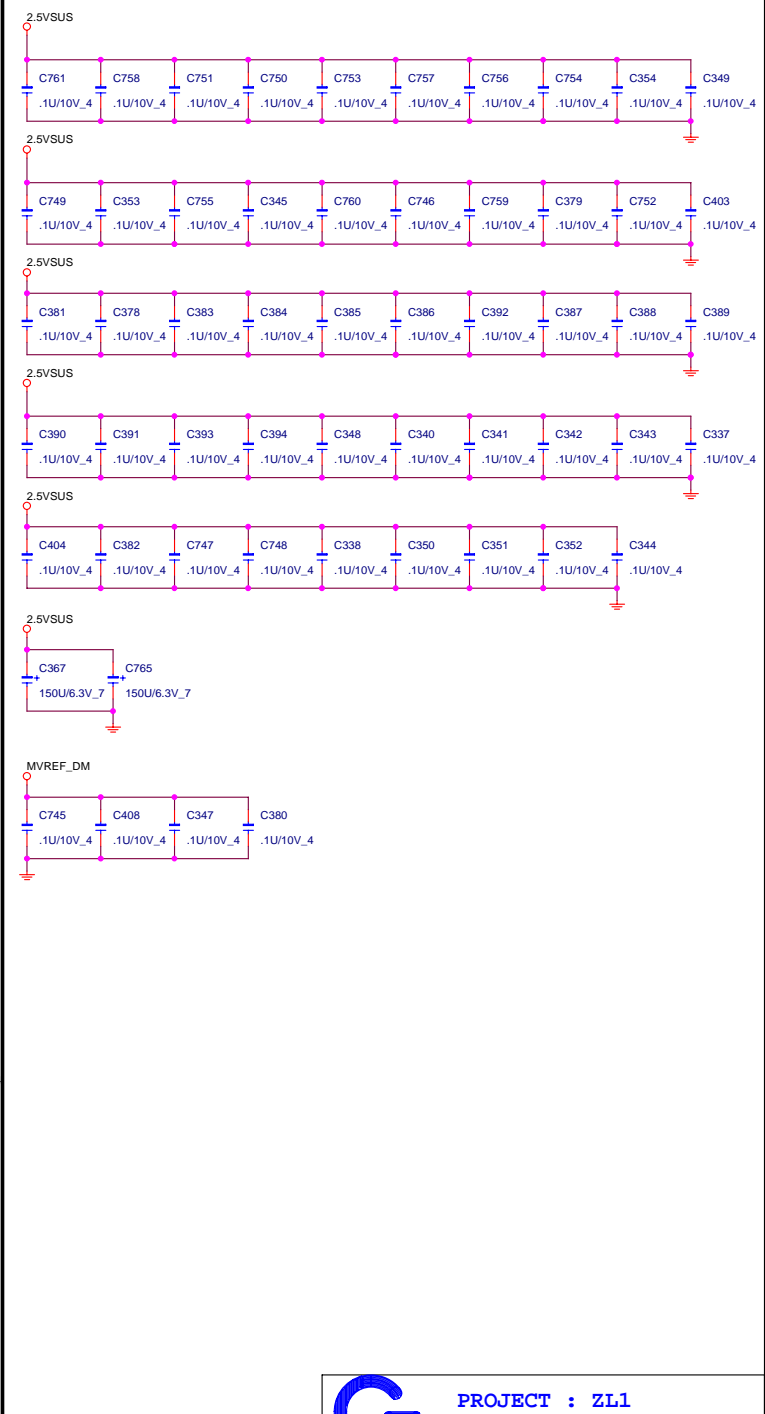
**PC2100 DDR SDRAM SO-DIMM (200P)**  
**CLOCK 0,1,2**  
**CKE 0,1**

SMbus address A0



**PC2100 DDR SDRAM SO-DIMM (200P)**  
**CLOCK 3,4,5**  
**CKE 2,3**

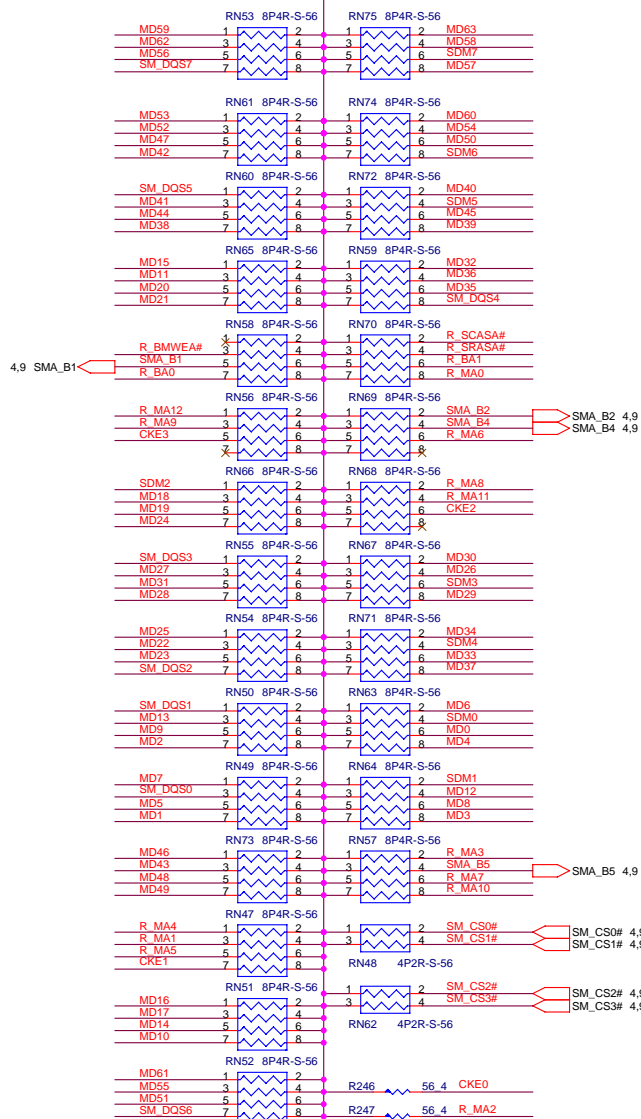
SMbus address A1



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	<b>DDR SO-DIMM ( 200P )</b>	2A
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SMDDR\_VTERM



4.9 SMA\_B1

SMA\_B2 4.9  
SMA\_B4 4.9

SMA\_B5 4.9

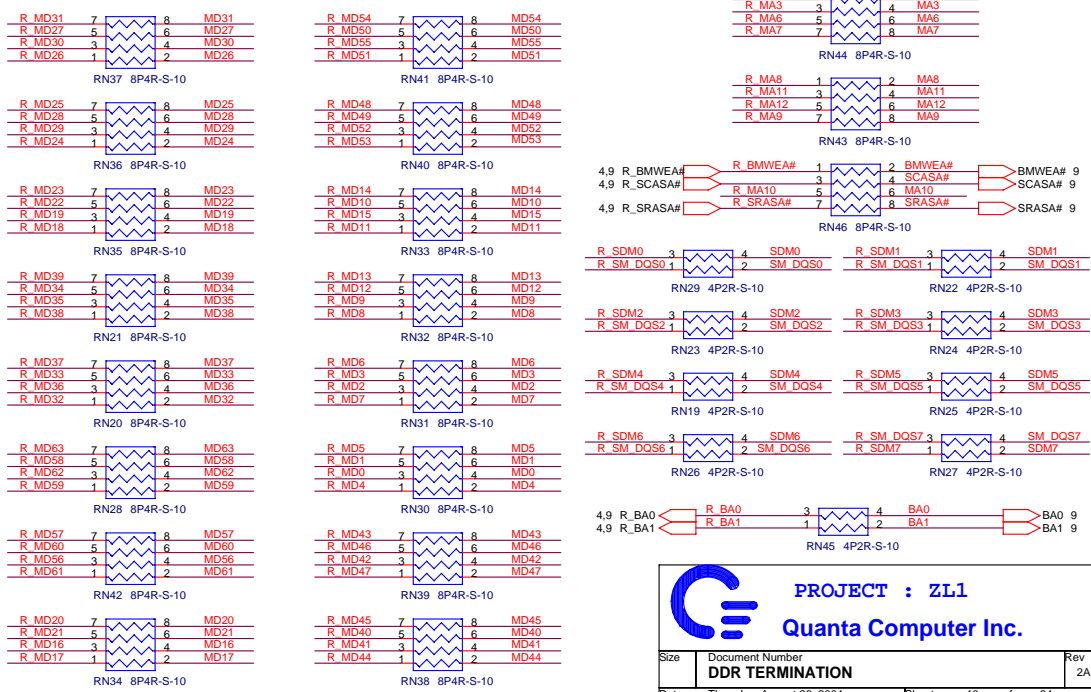
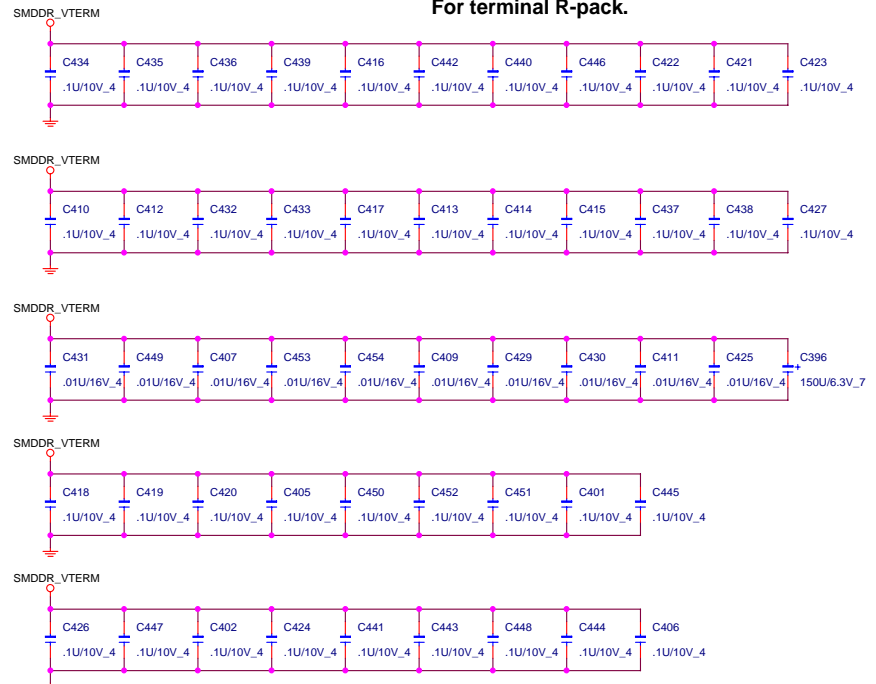
SM\_CS0# 4.9  
SM\_CS1# 4.9


SM\_CS2# 4.9  
SM\_CS3# 4.9

Damping put BOT,termination put TOP



### For terminal R-pack.

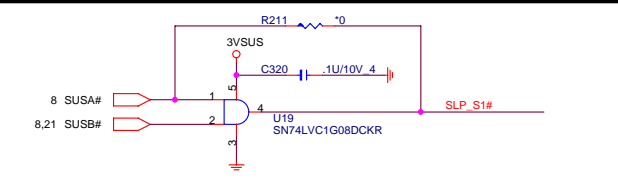
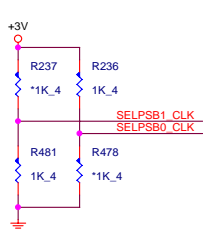




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**Quanta Computer Inc.**

Size	Document Number	Rev
	<b>DDR TERMINATION</b>	2A
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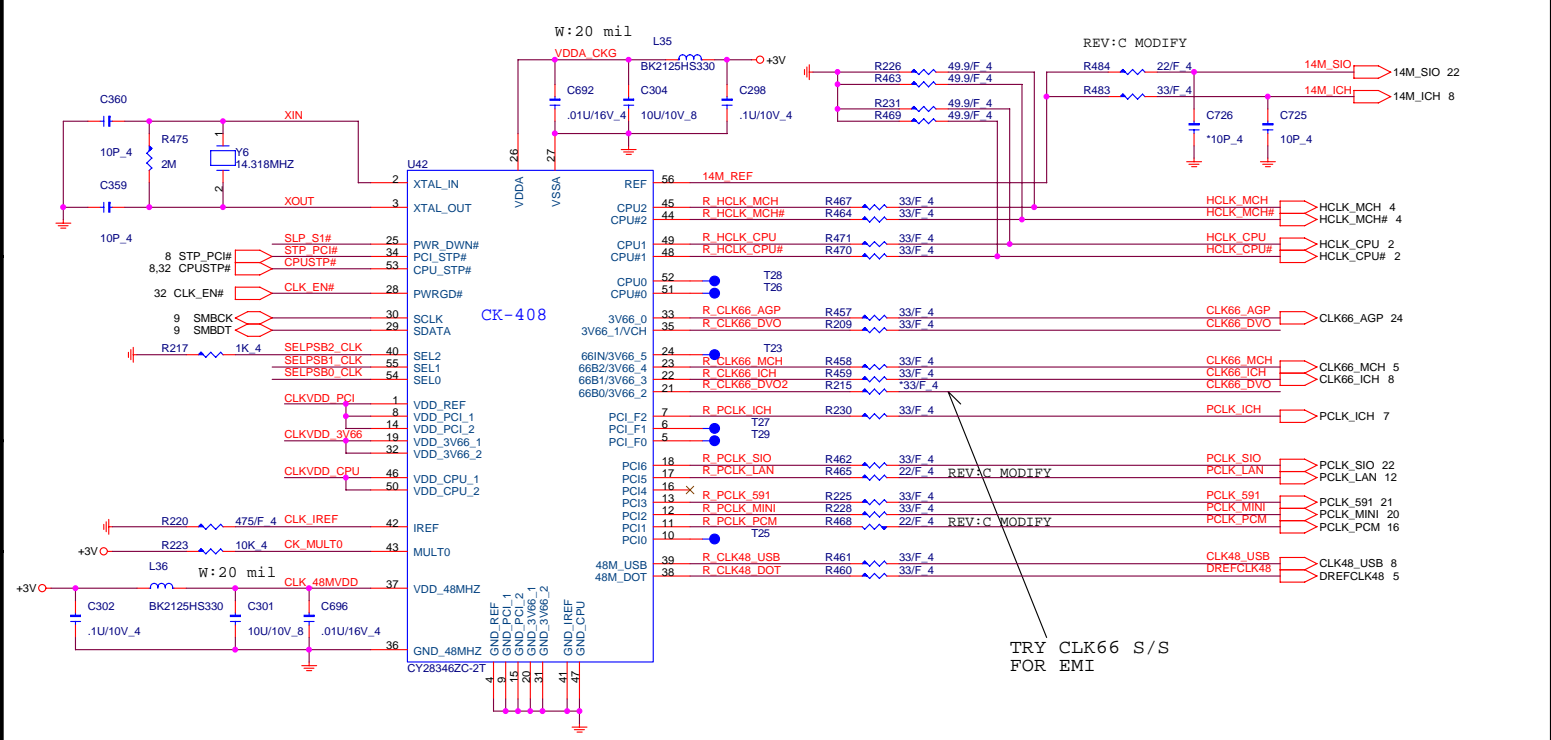
S2	S1	S0	CPU	3V66[0..4]	3V66_5/66IN
1	0	0	66	66IN	66 Input
1	0	1	100	66IN	66 Input
1	1	0	200	66IN	66 Input
1	1	1	133	66IN	66 Input
0	0	0	66	66	66
0	0	1	100	66	66
0	1	0	200	66	66
0	1	1	133	66	66



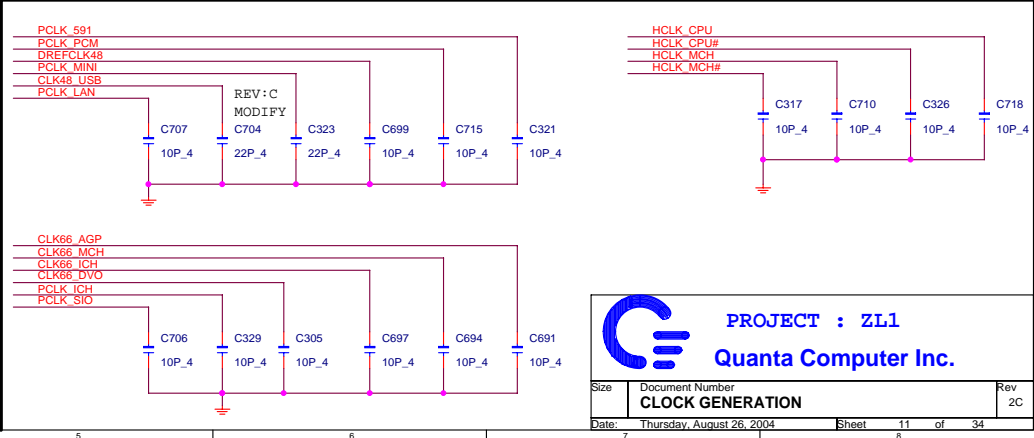
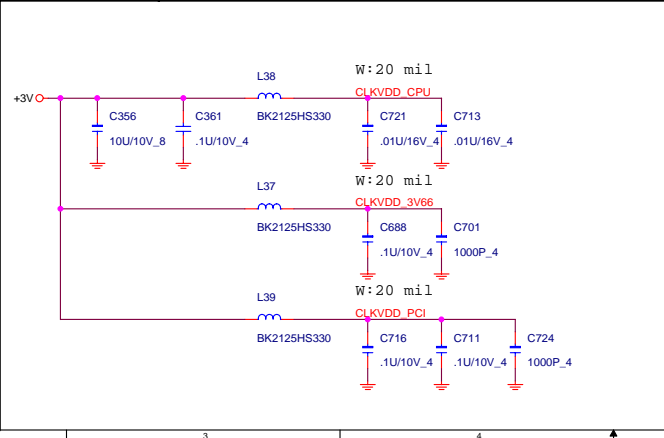
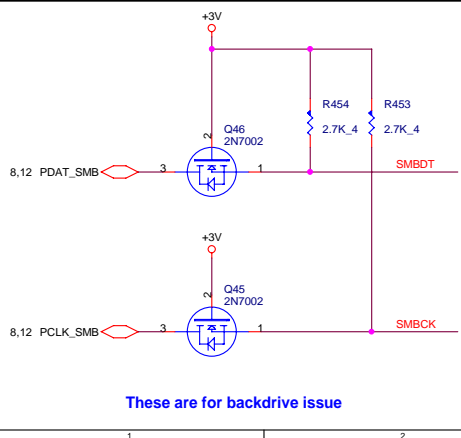
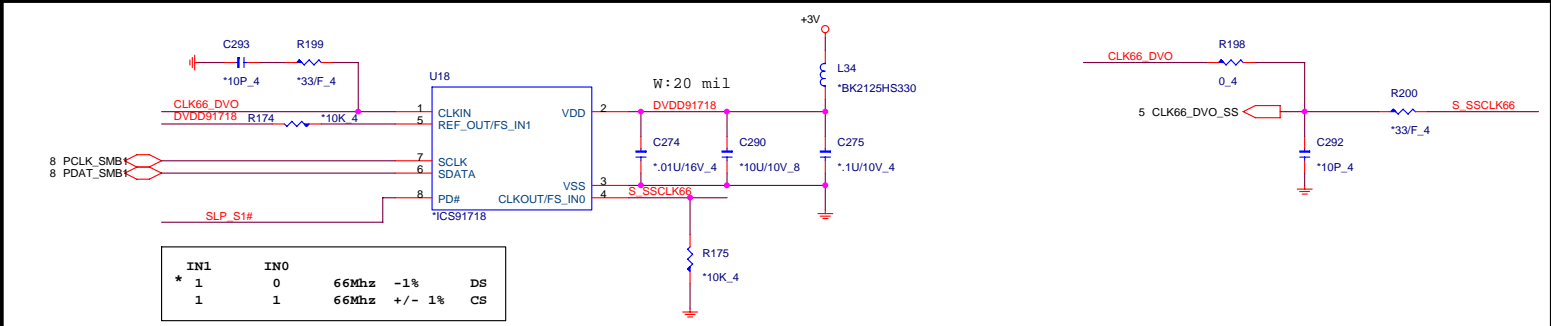
3V66\_1/VCH  
 SMBus Byte 0, Bit 5 = 0    66 MHz    W    S/S  
 SMBus Byte 0, Bit 5 = 1    48 MHz    W/O S/S

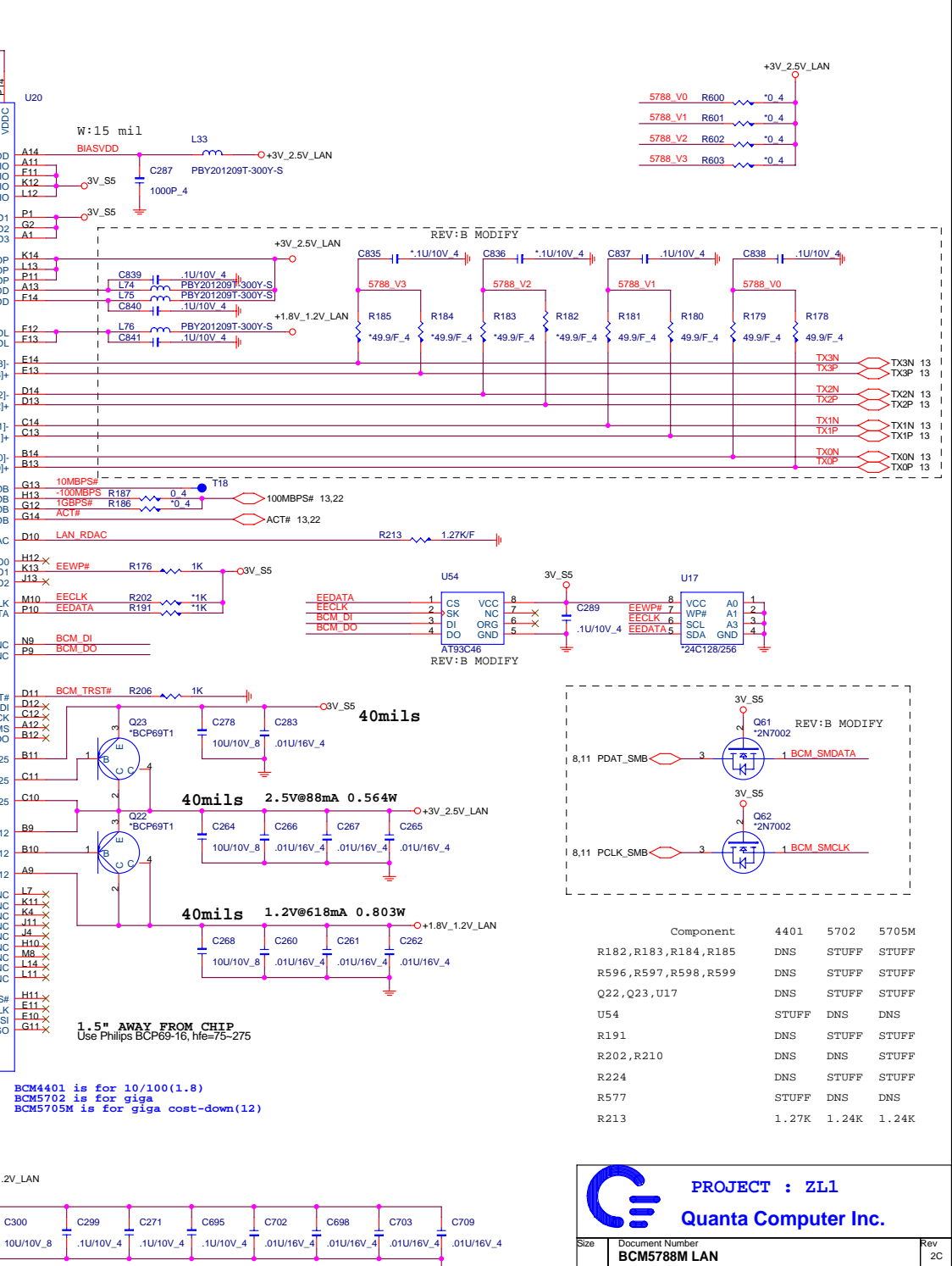
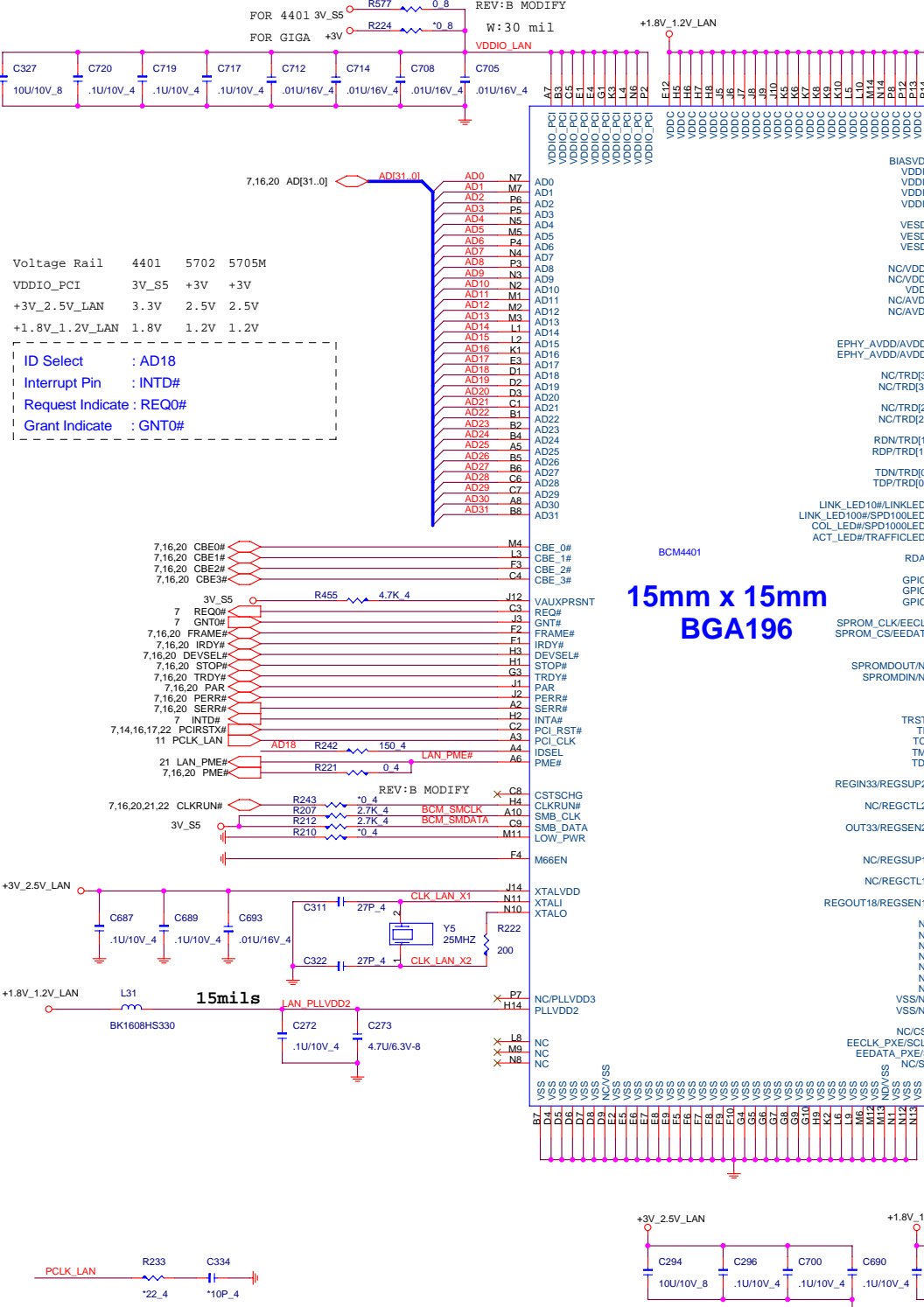
Byte 0, Bit 7 = 0    Disable Spread Spectrum  
 Byte 0, Bit 7 = 1    Enable Spread Spectrum

Byte 4 Bit 7	Byte 5 Bit 7	Byte 5 Bit 6	Spread Mode	Spread %
SS2	SS1	SS0		
0	0	0	DOWN	+0.00, -0.25
0	0	1	DOWN	+0.00, -0.50
0	1	0	DOWN	+0.00, -0.75
0	1	1	DOWN	+0.00, -1.00
1	0	0	CENTER	+0.13, -0.13
1	0	1	CENTER	+0.25, -0.25
1	1	0	CENTER	+0.37, -0.37
1	1	1	CENTER	+0.50, -1.50



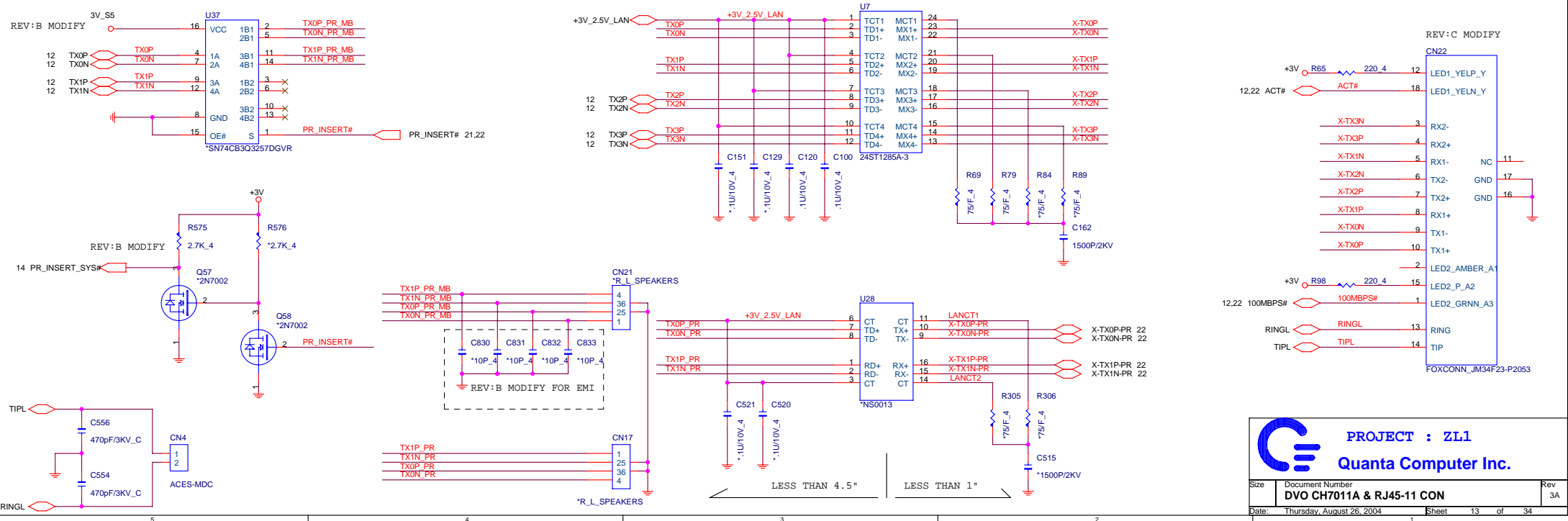
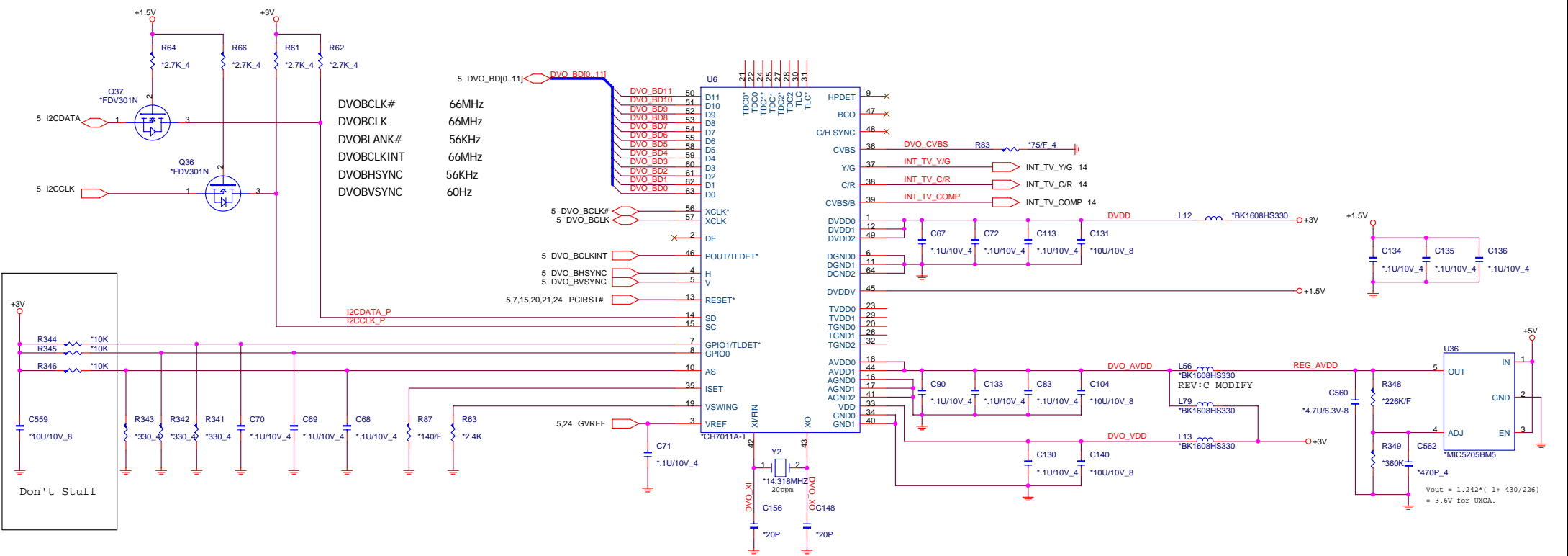
TRY CLK66 S/S FOR EMI

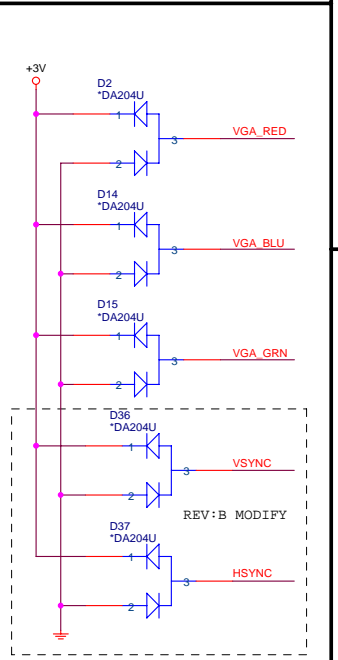
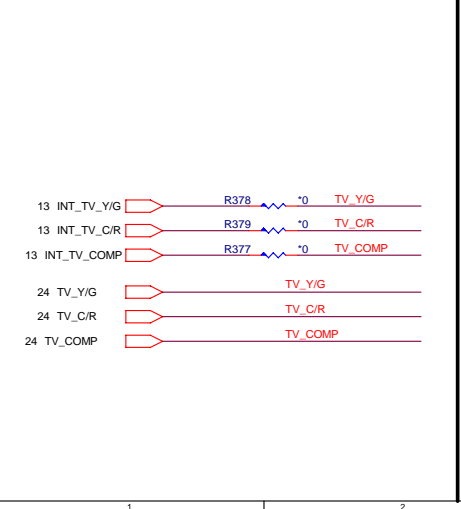
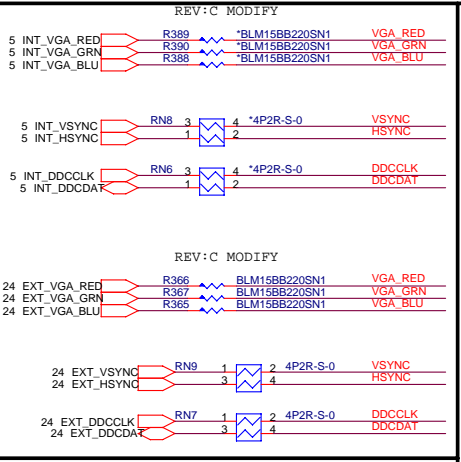
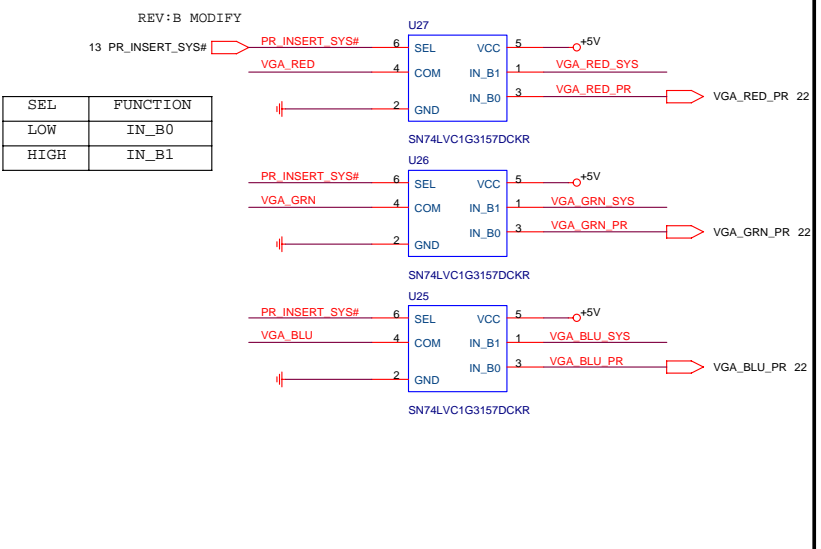




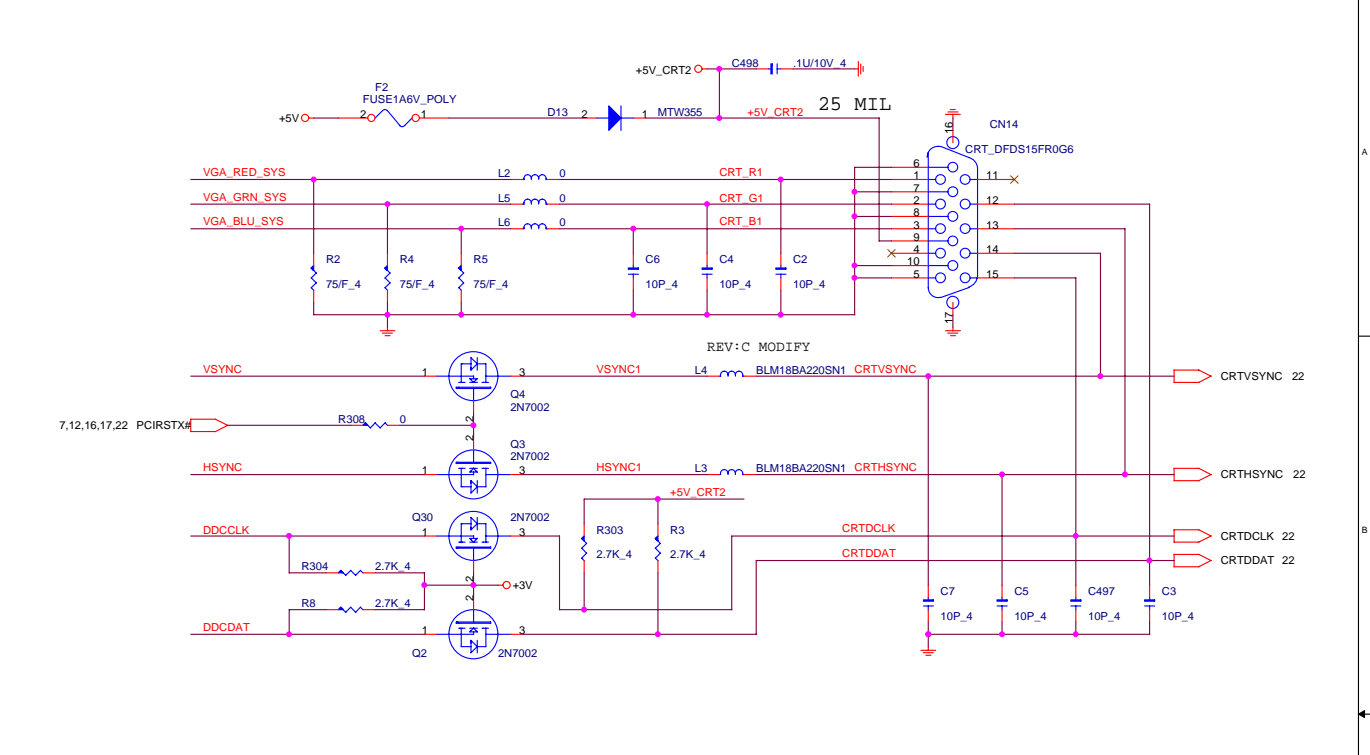
**PROJECT : ZL1**  
**Quanta Computer Inc.**

Size	Document Number	Rev
	<b>BCM5788M LAN</b>	2C
Date:	Thursday, August 26, 2004	Sheet 12 of 34

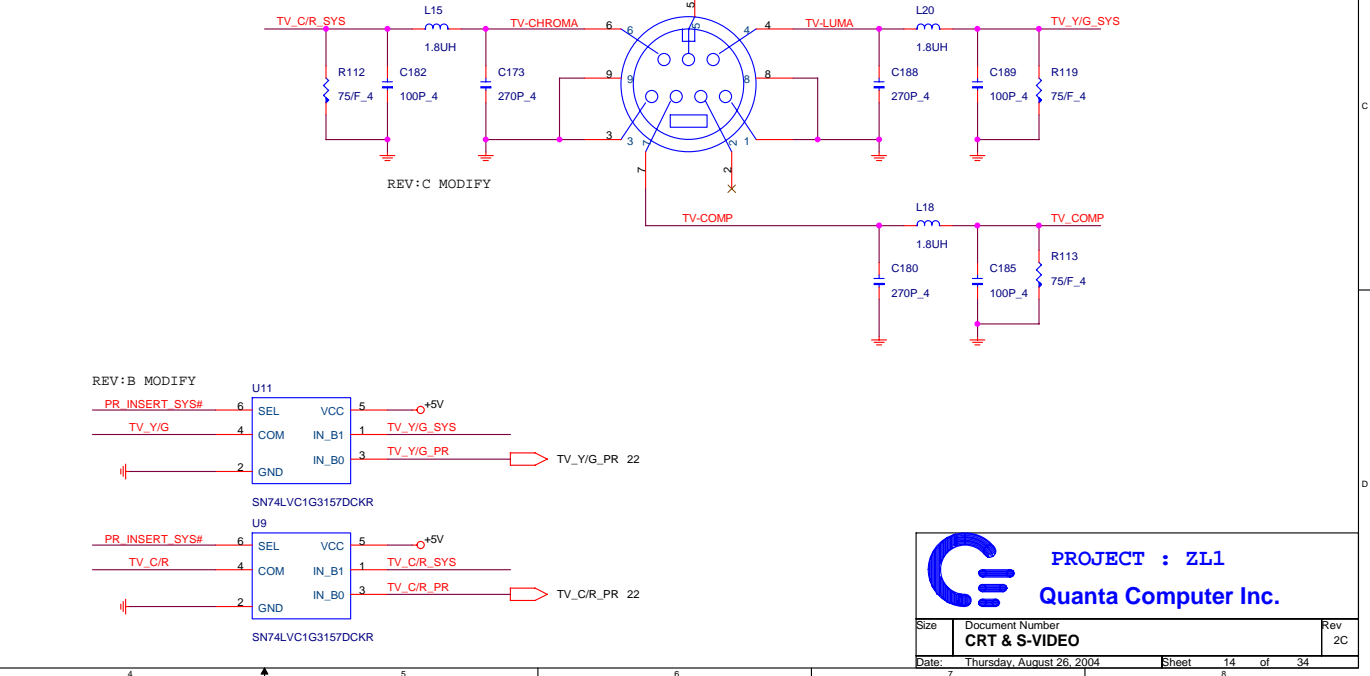


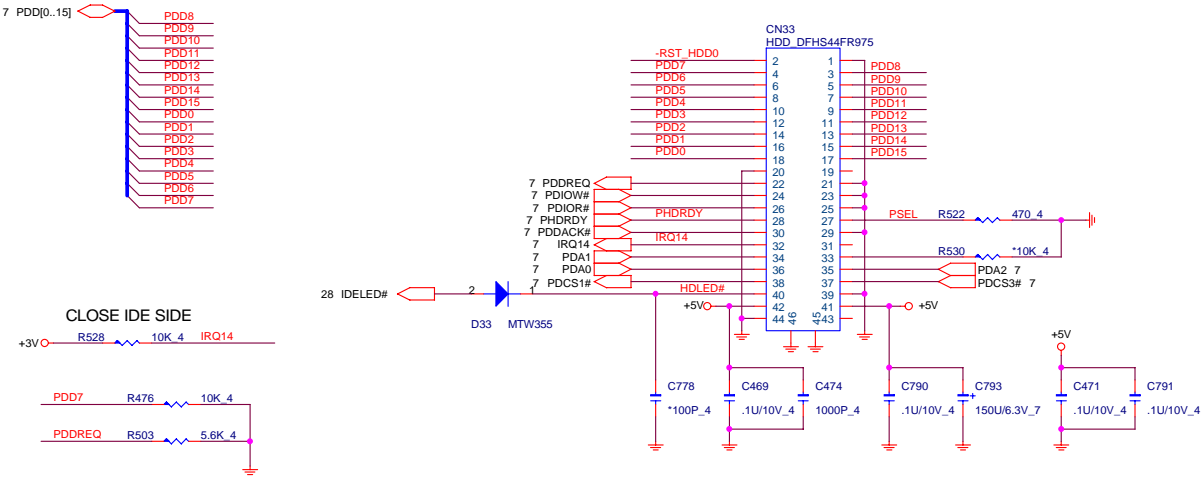


### CRT PORT

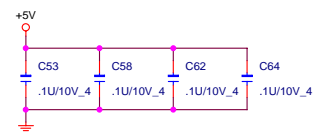
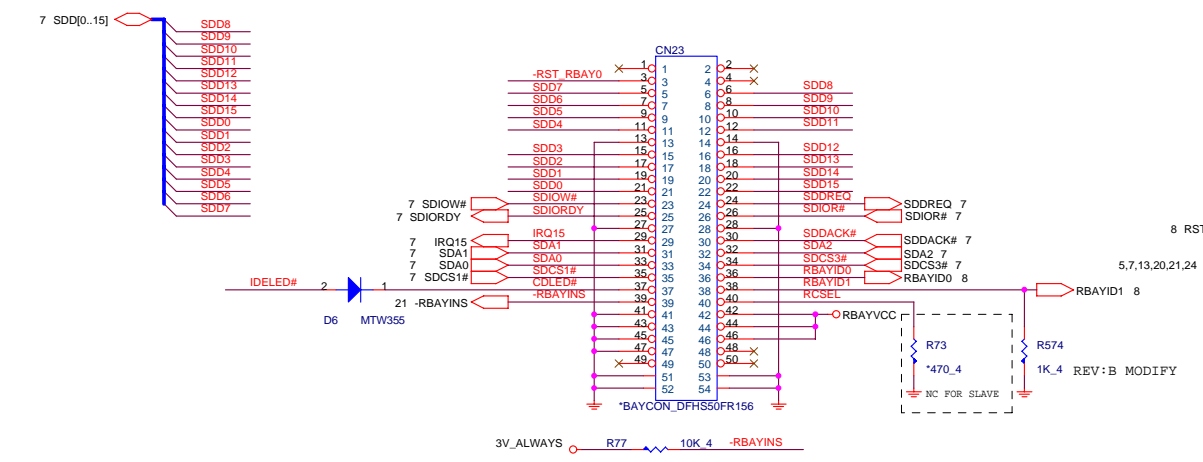
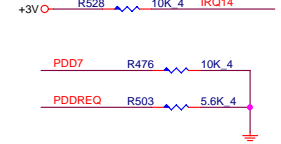


### S-VIDEO





CLOSE IDE SIDE



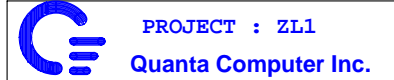
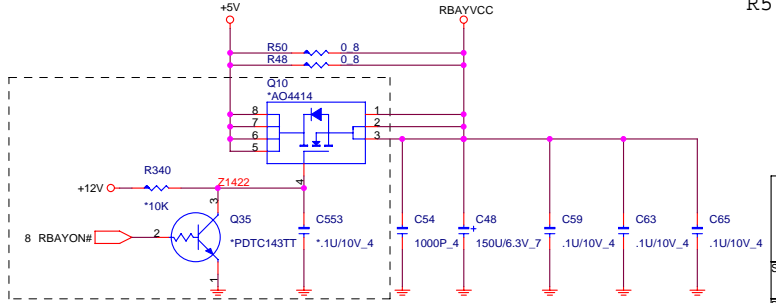
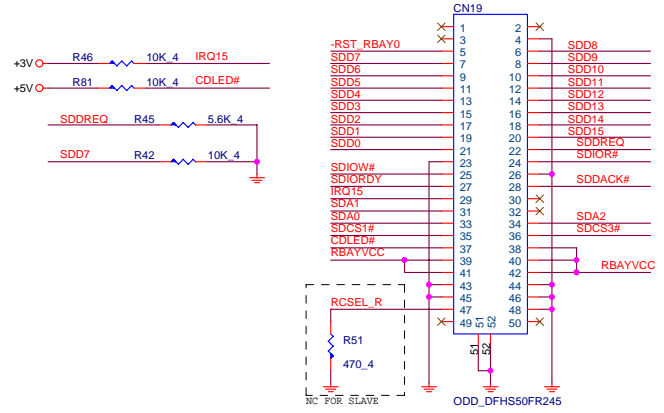
BAY ID STATUS

RBAYID0/ LBAYID0	RBAYID1/ LBAYID1	STATUS
0	0	FDD
0	1	HDD
1	0	CD/DVD

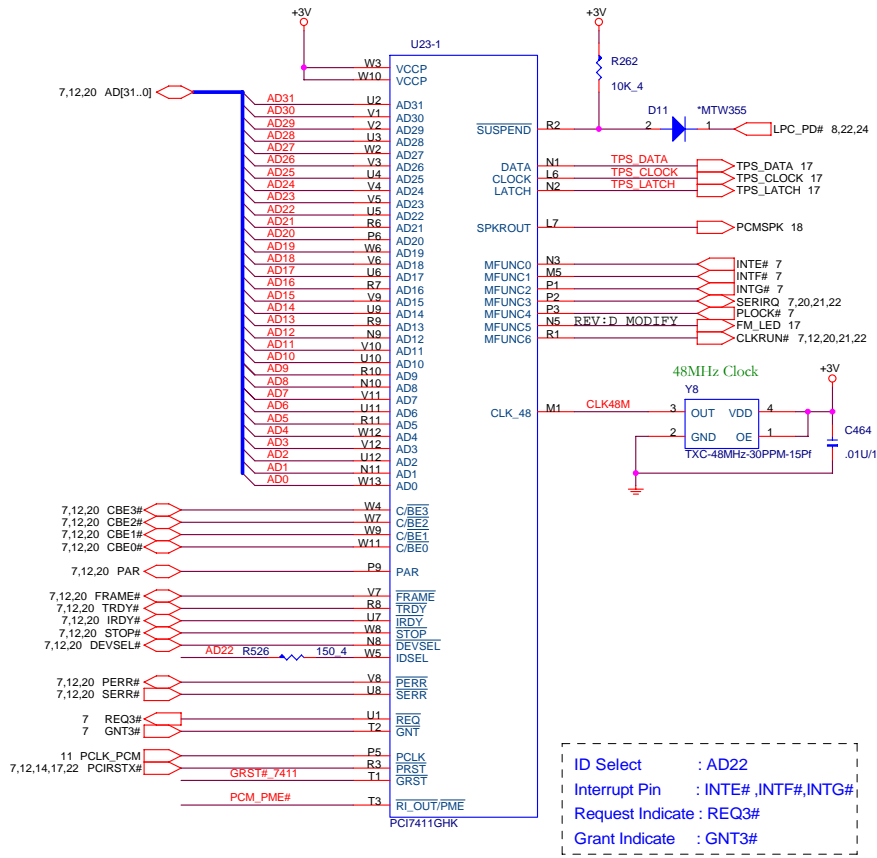
W/O Media Bay      W Media Bay

- R472, R473      DNS      STUFF
- R94, R96      DNS      STUFF
- R474, R101      STUFF      DNS
- R48, R50      STUFF      DNS
- Q10, Q35      DNS      STUFF
- R340, C553      DNS      STUFF
- R73, CN23      DNS      STUFF
- R51, CN19      STUFF      DNS
- R574      STUFF      DNS

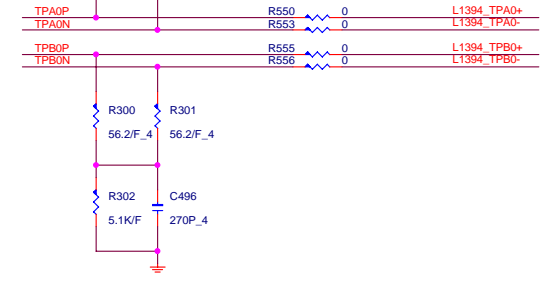
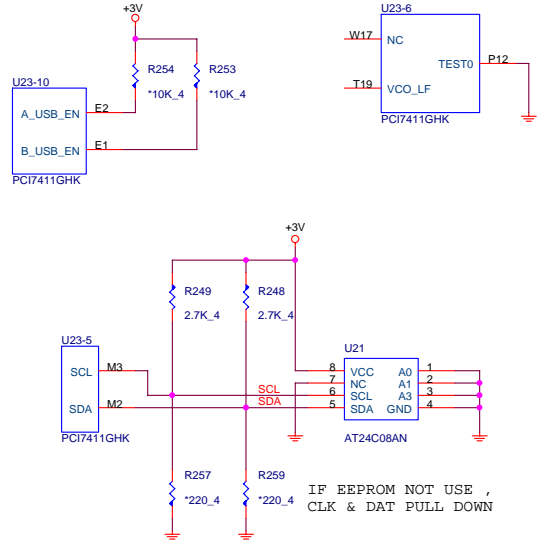
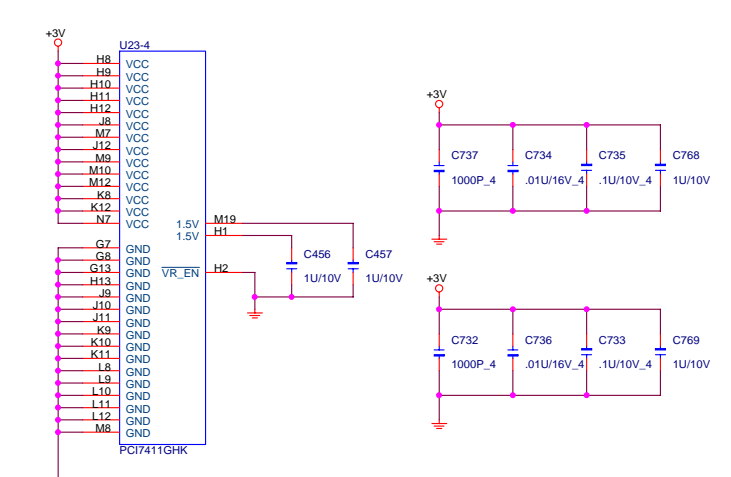
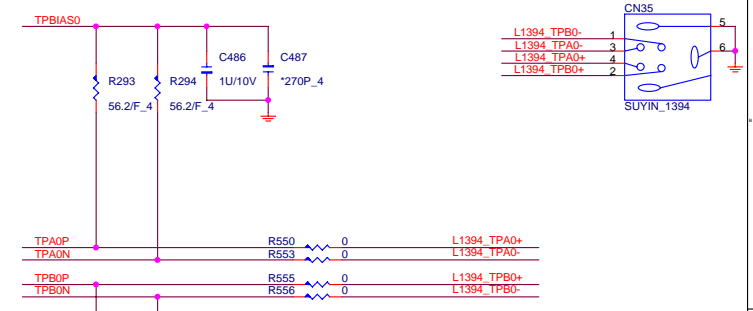
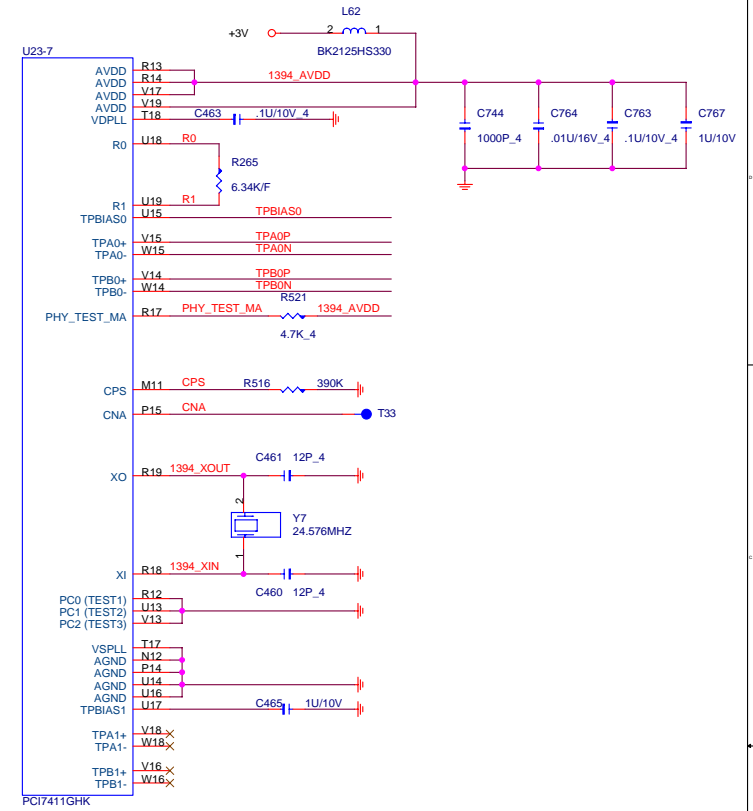
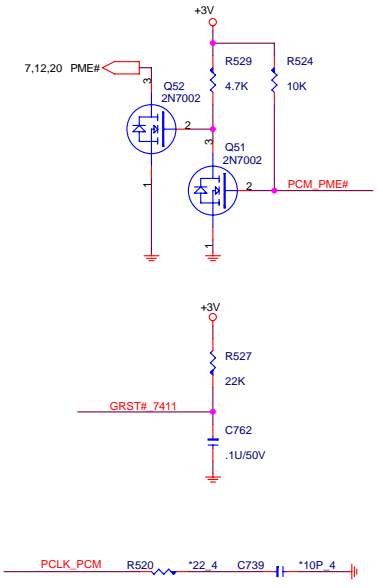
ODD Connector







ID Select : AD22  
 Interrupt Pin : INTE#, INTF#, INTG#  
 Request Indicate : REQ3#  
 Grant Indicate : GNT3#

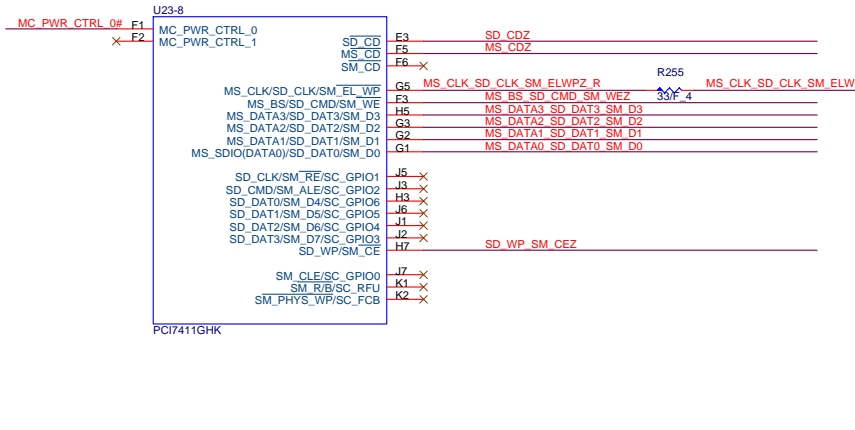
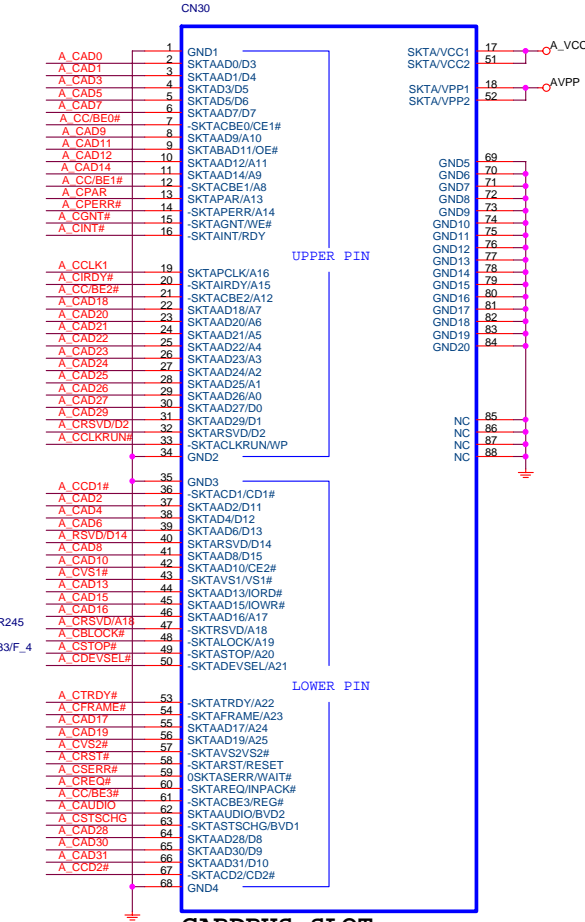
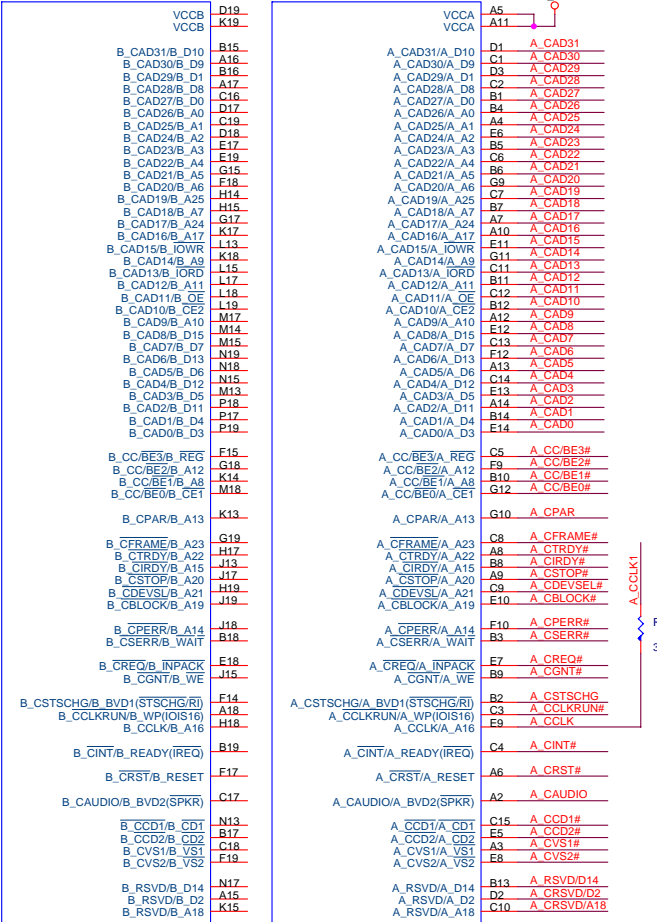


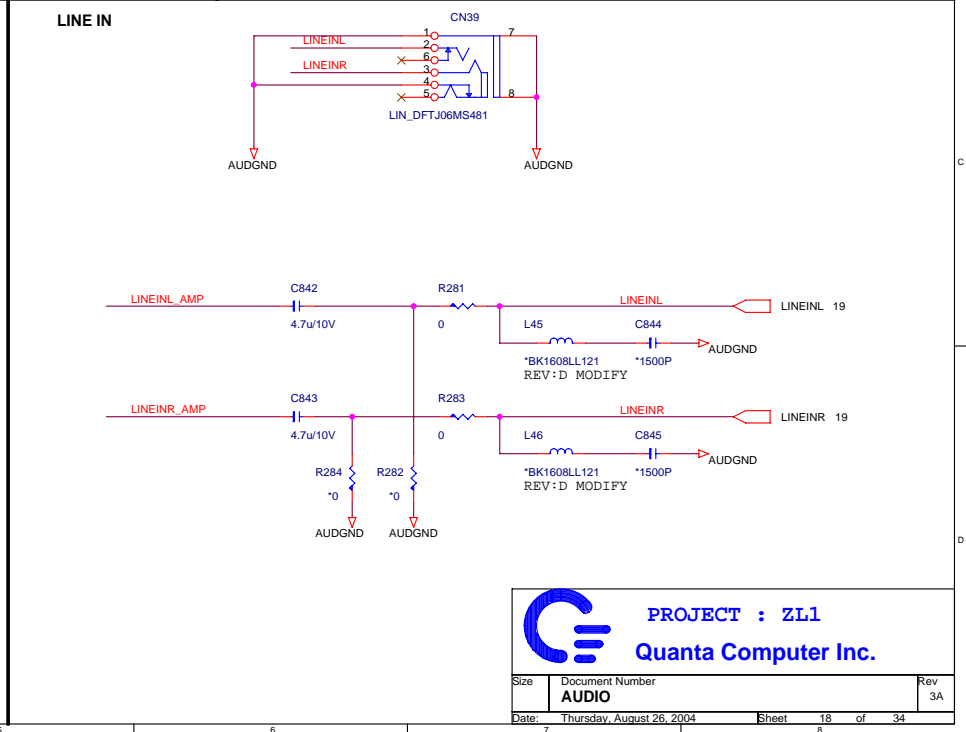
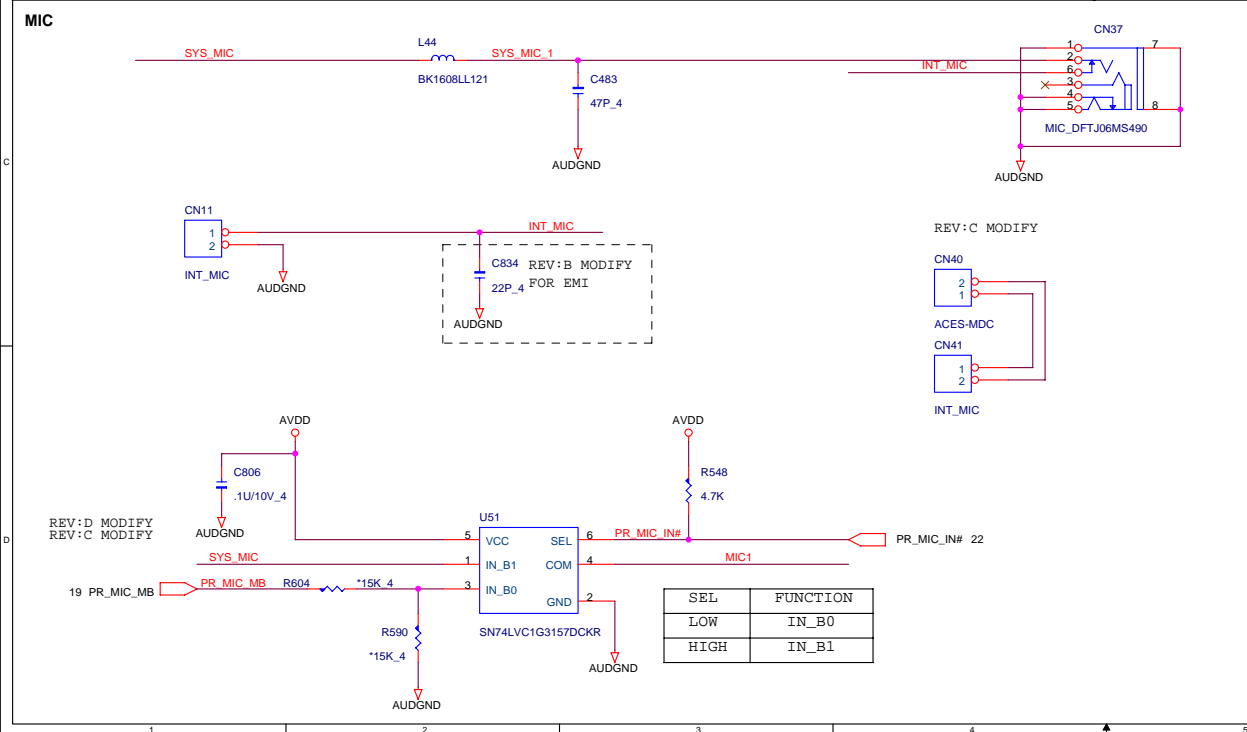
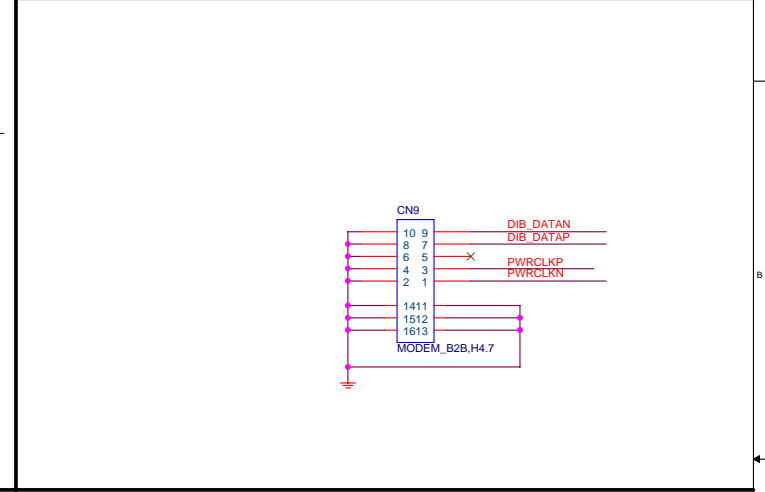
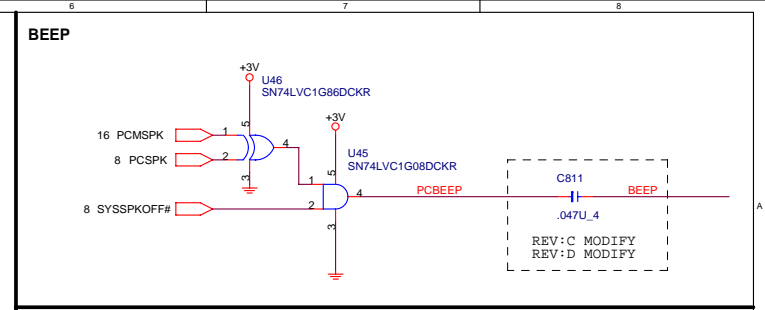
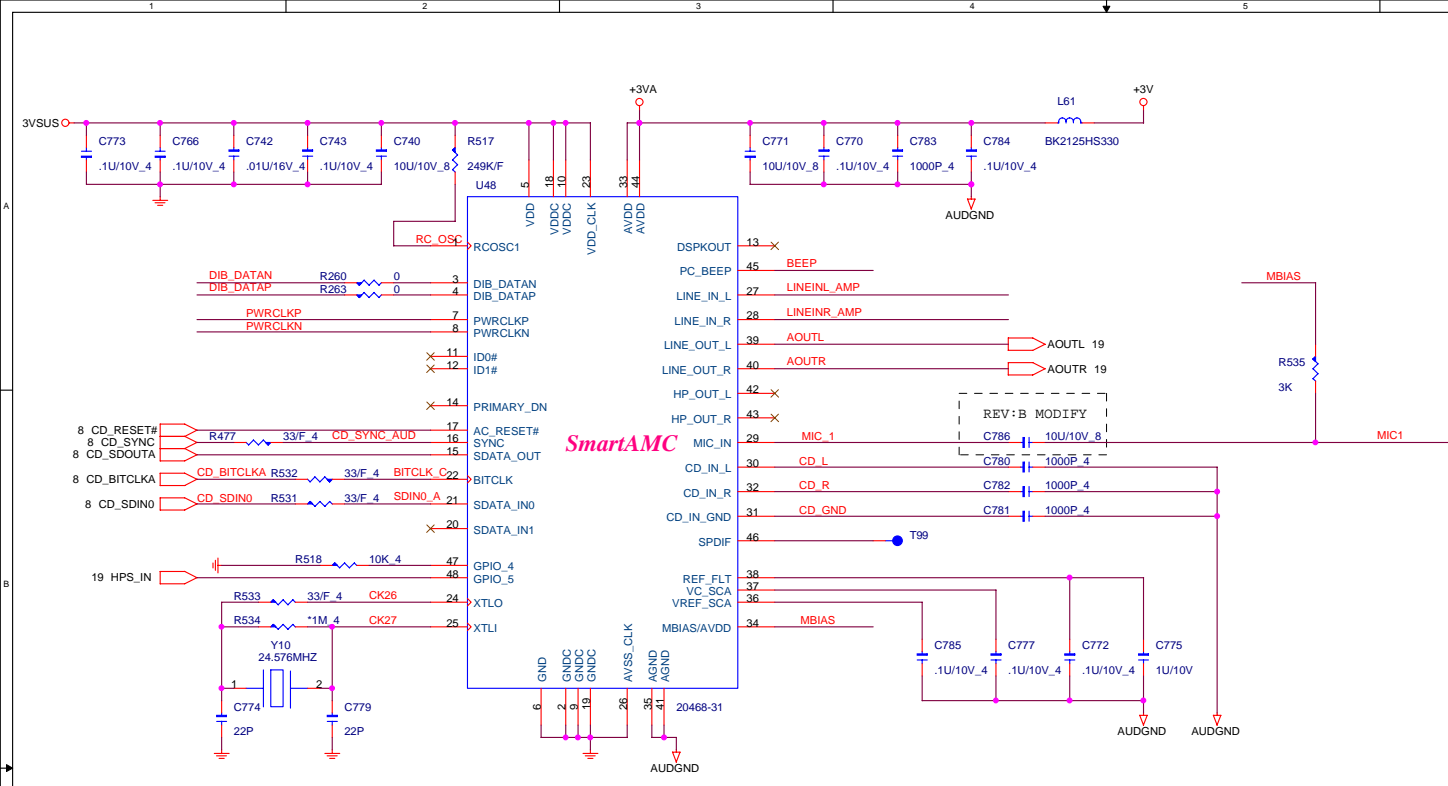
U23-3

U23-2

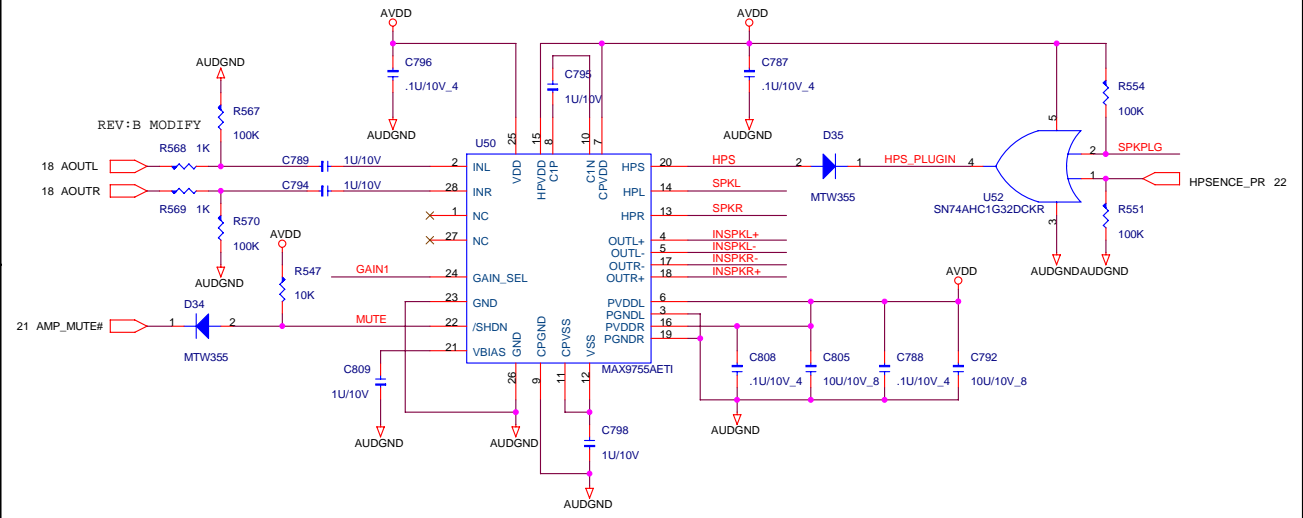
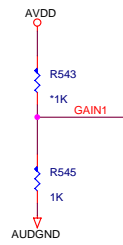
CN30

U23-8

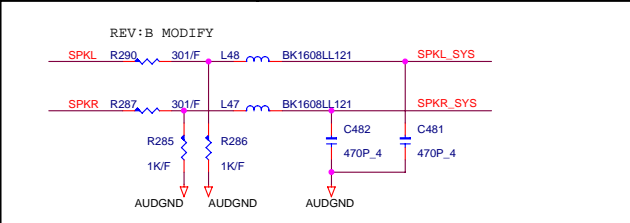
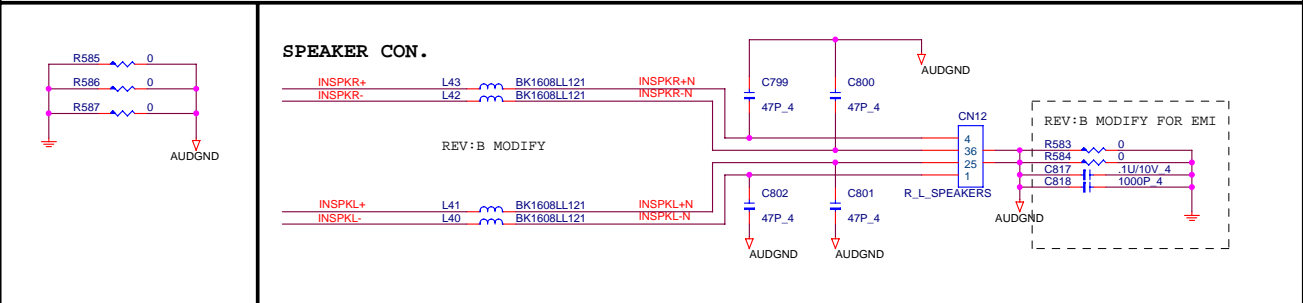
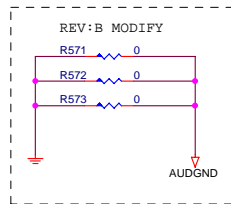
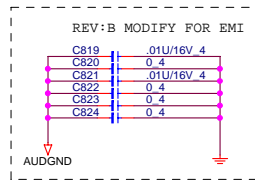
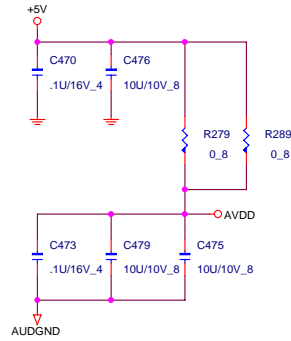




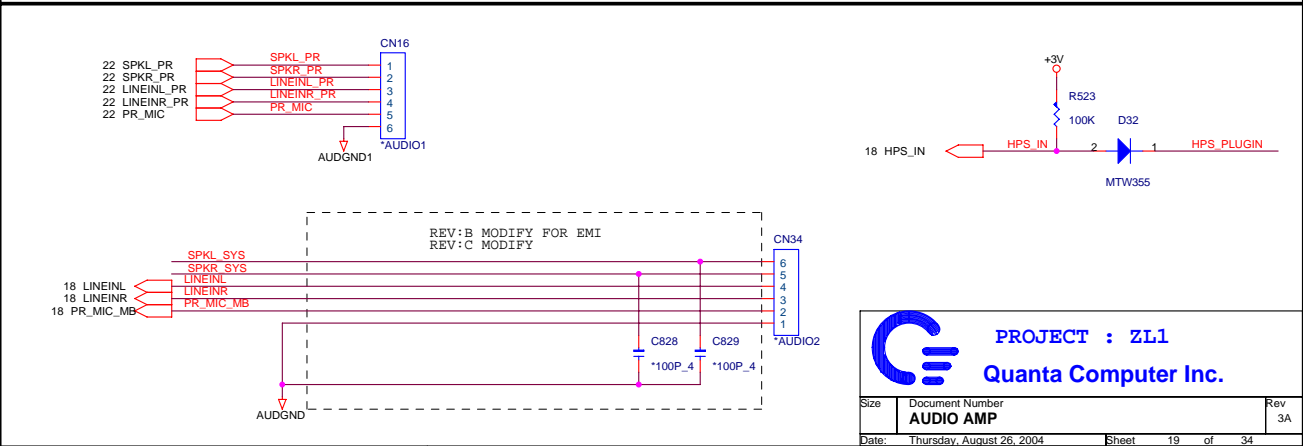
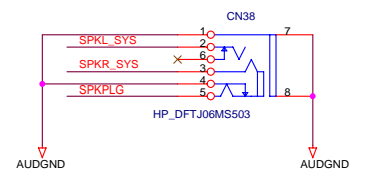
GAIN1	SPKR MODE	HP MODE
0	10.5	3
1	9	0



AMP POWER



LINE OUT

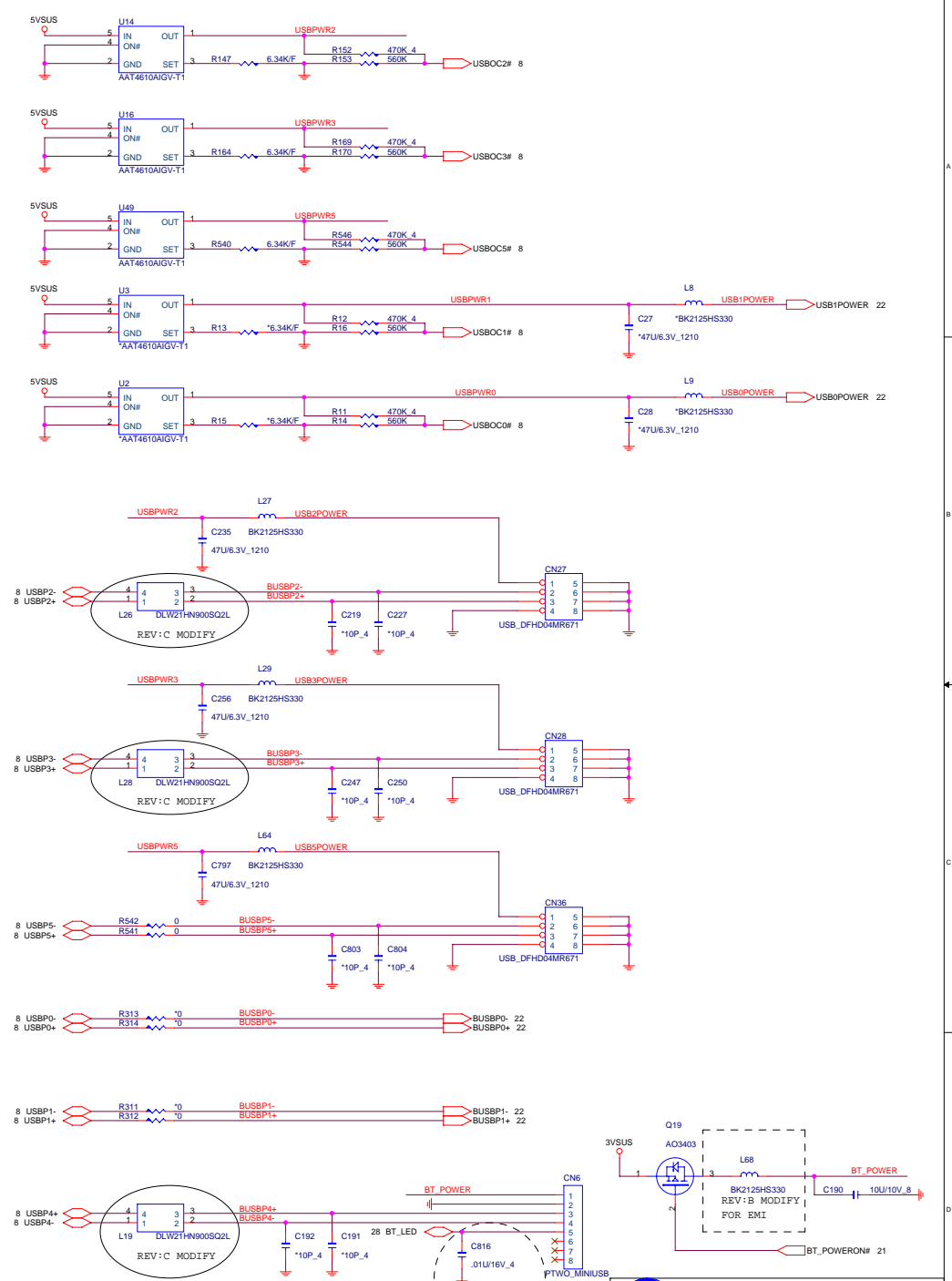
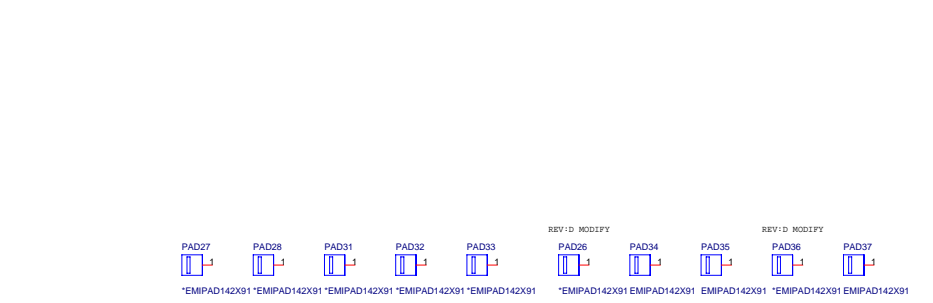
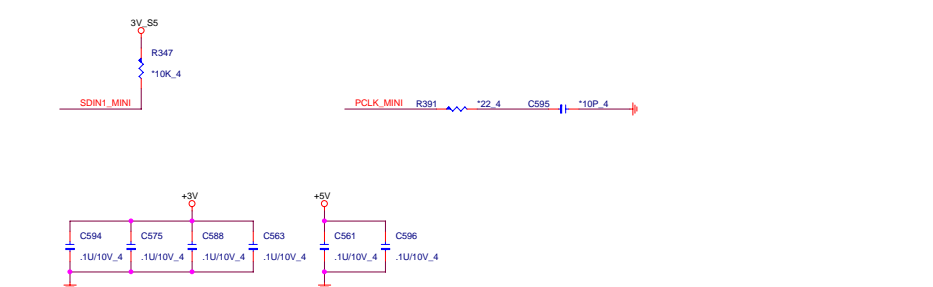
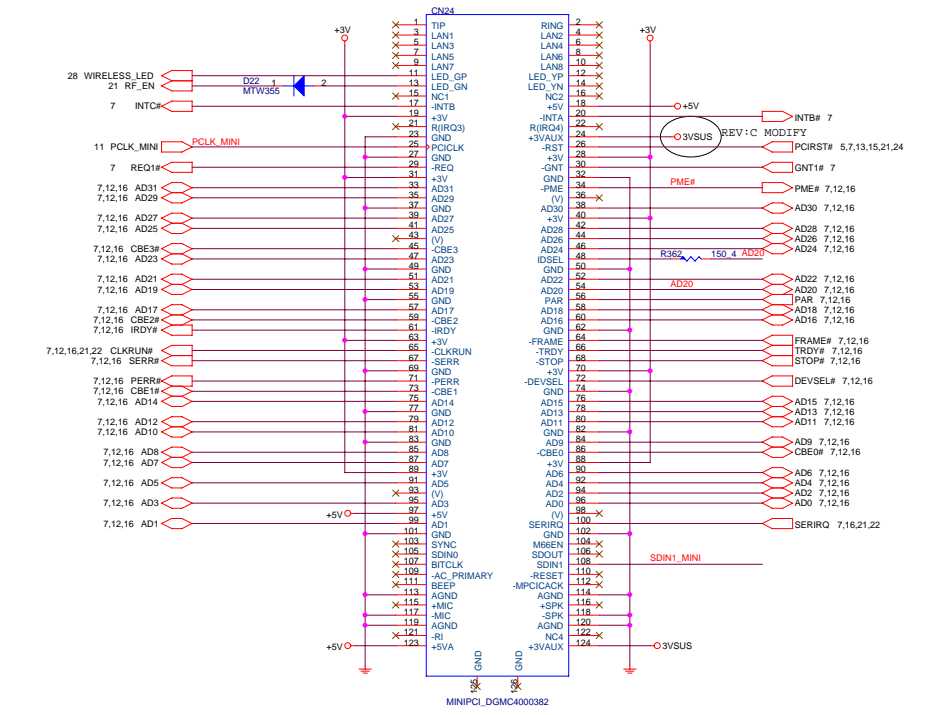


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	<b>AUDIO AMP</b>	3A
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ID Select : AD20  
 Interrupt Pin : INTB#, INTC#  
 Request Indicate : REQ1#  
 Grant Indicate : GNT1#

MINI-PCI

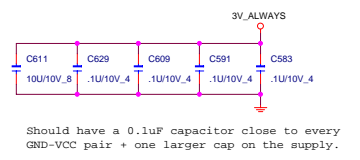
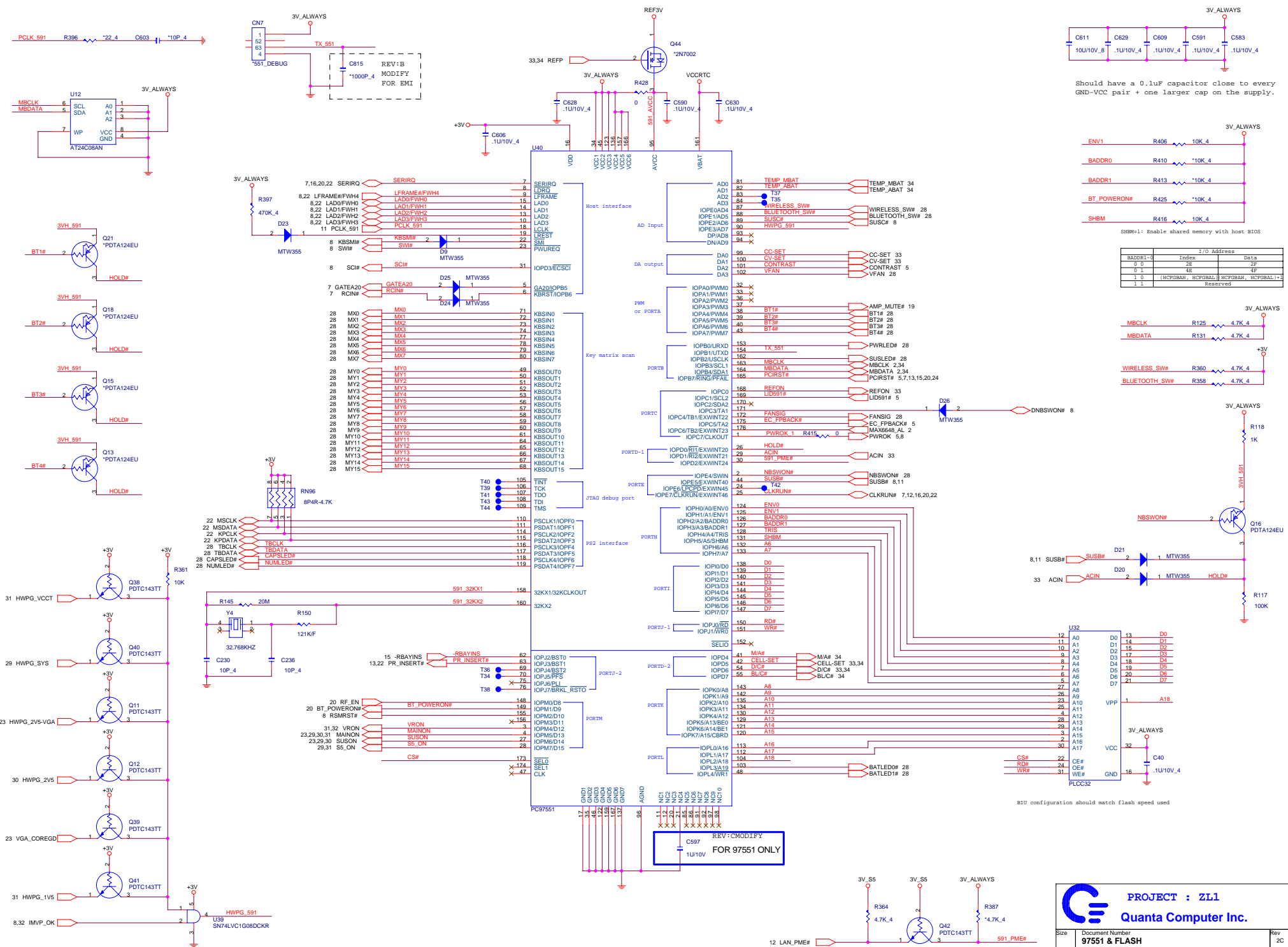


**PROJECT : ZL1**  
**Quanta Computer Inc.**

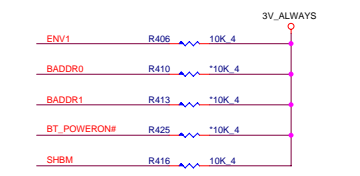
Size Document Number  
**MINI PCI,USB**

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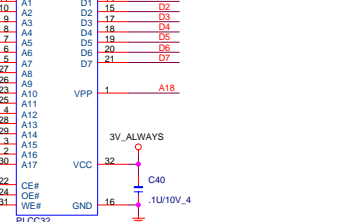
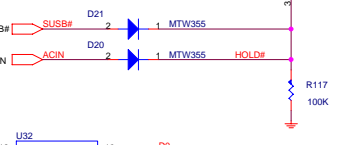
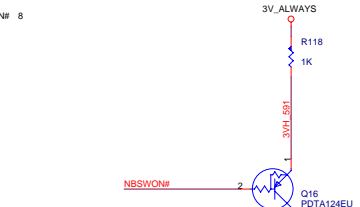
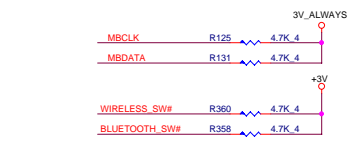
LDRQ#(pin 8) internal is no use



Should have a 0.1uF capacitor close to every GND-VCC pair + one larger cap on the supply.



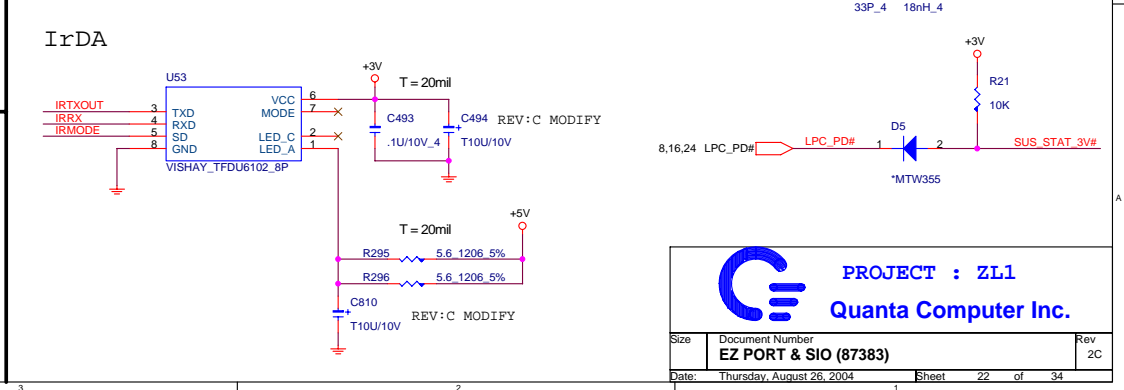
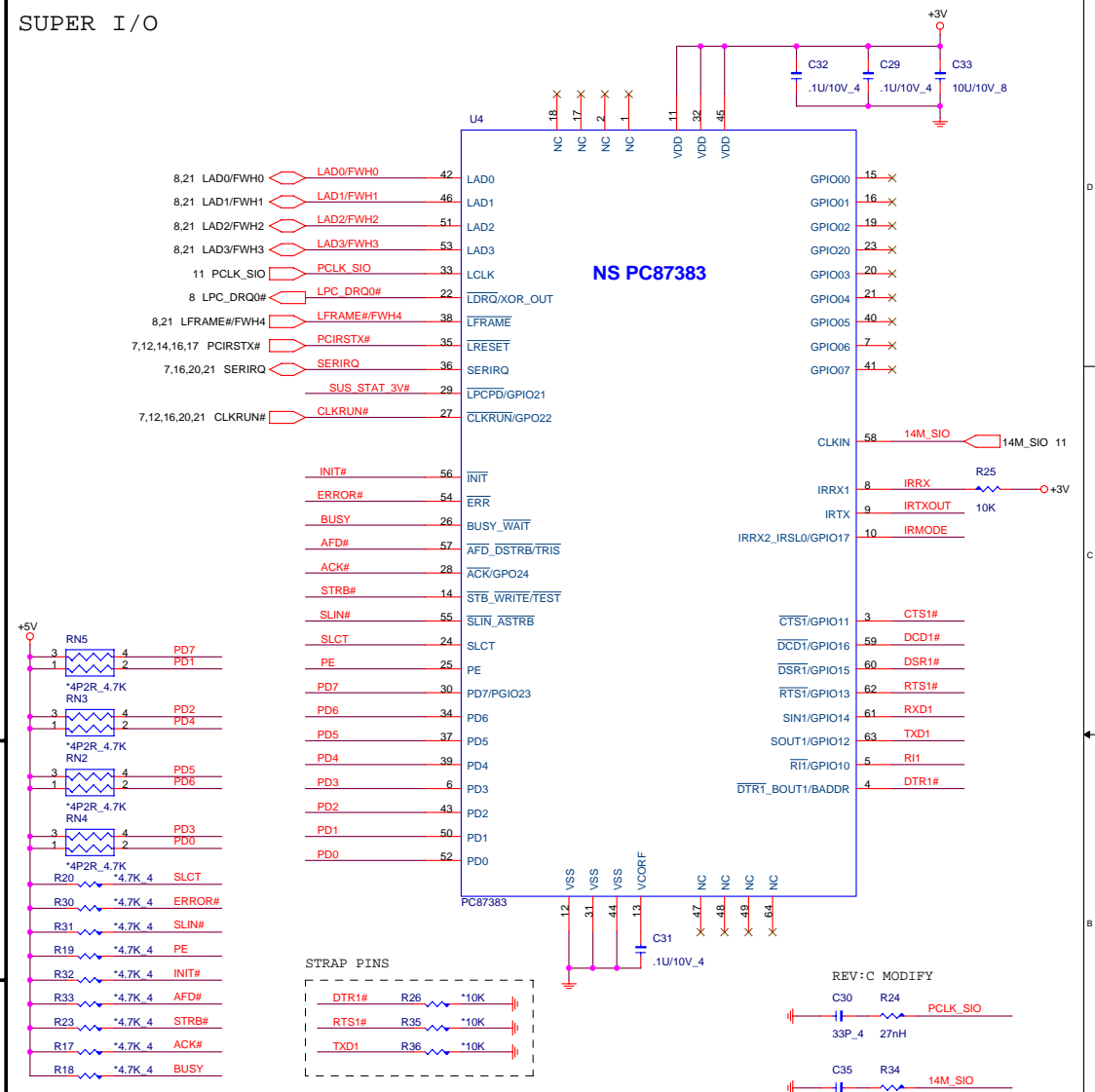
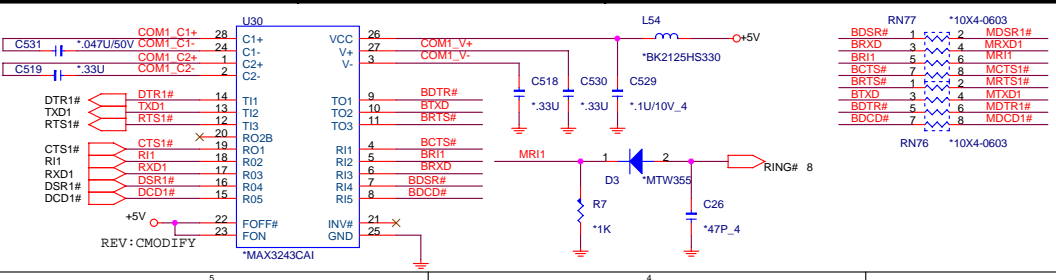
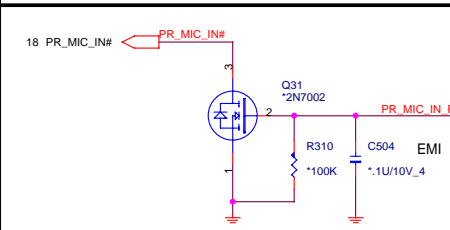
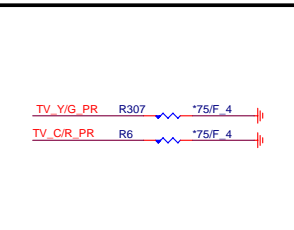
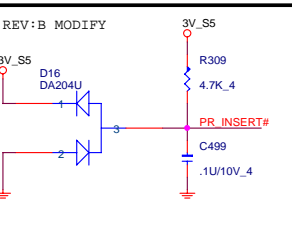
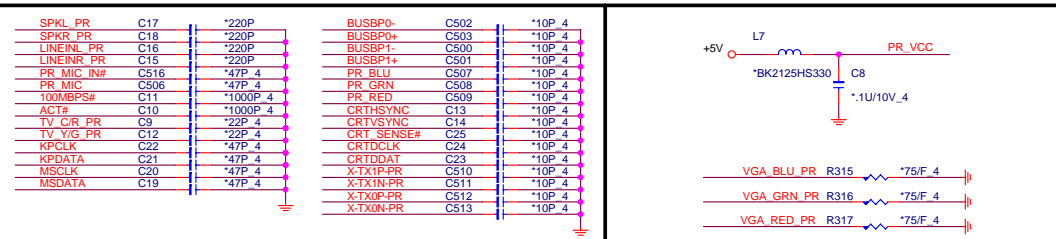
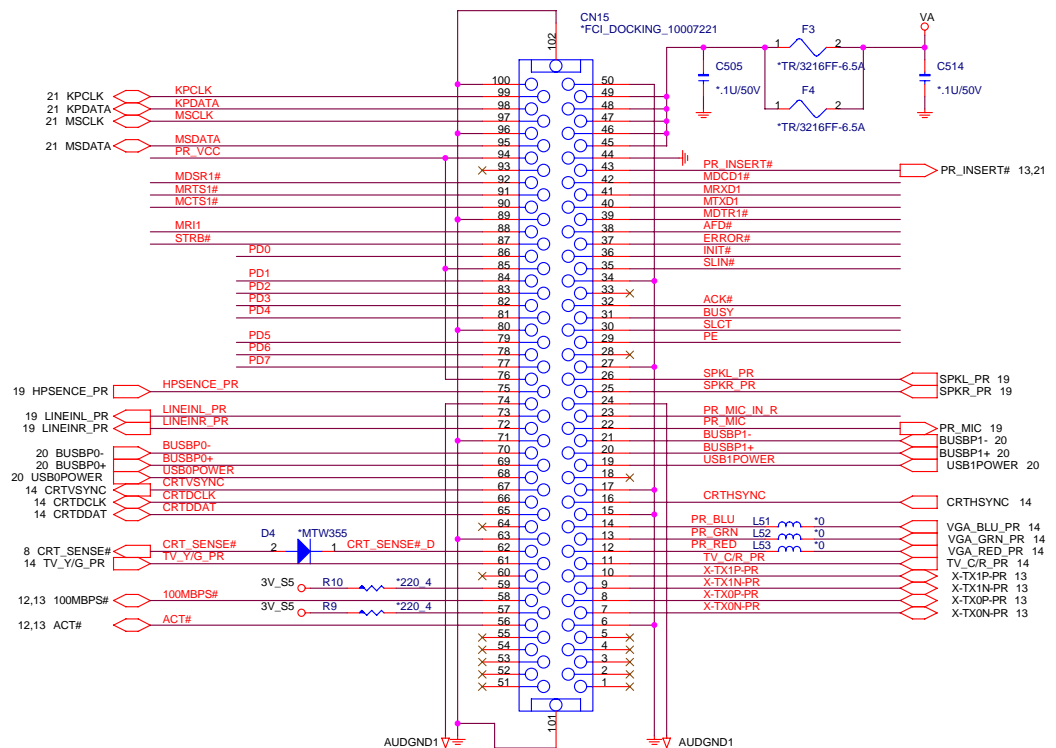
I/O Address		
BADDR1	Index	Data
0	2E	2F
0	1	4E
1	1	HC(FGBAL, HCFGBAL, HCFGBAL+1)
1	1	Reserved



BU configuration should match flash speed used

**PROJECT : ZL1**  
**Quanta Computer Inc.**

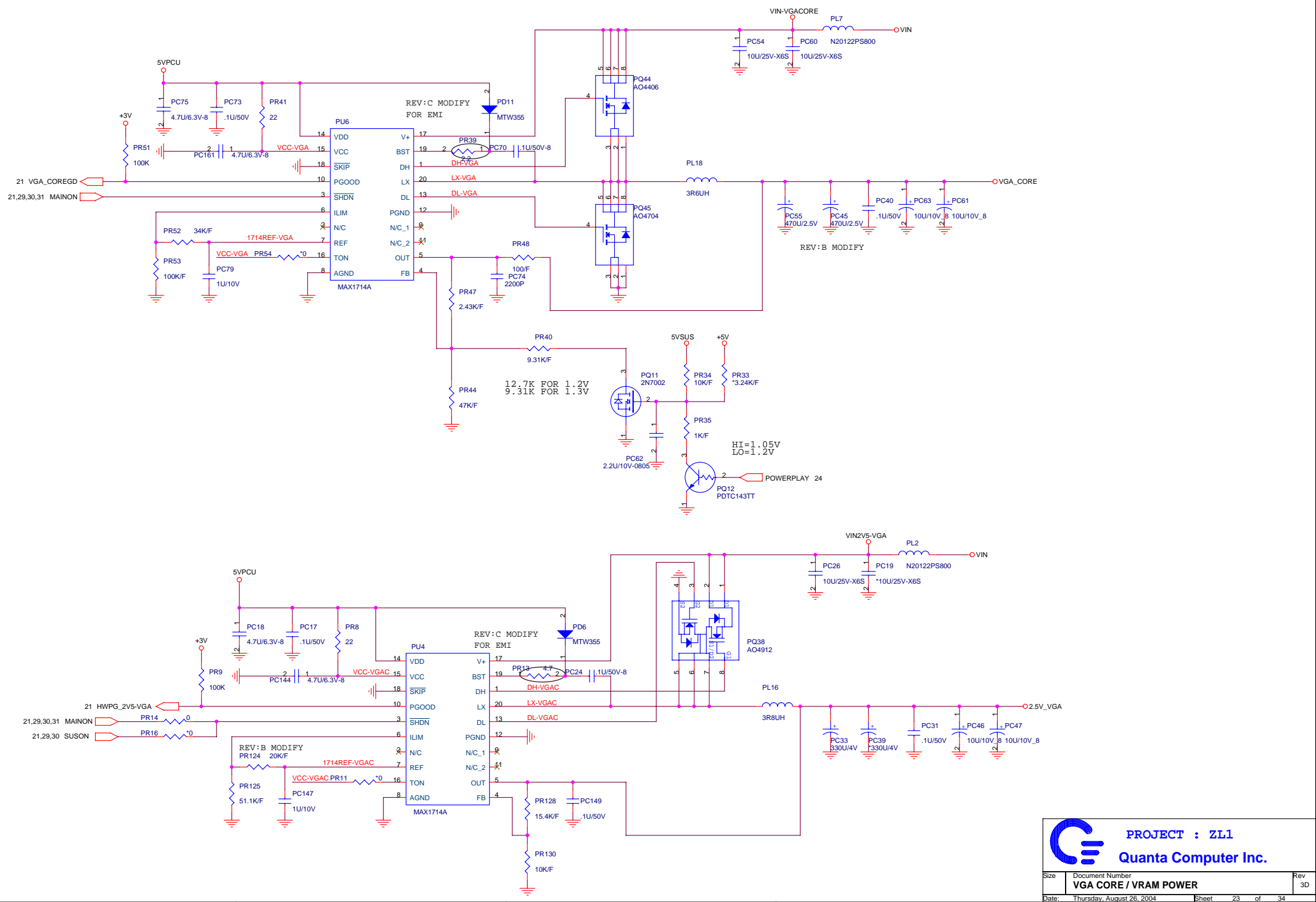
Size	Document Number	Rev
	<b>97551 &amp; FLASH</b>	2C
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**Quanta Computer Inc.**

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	<b>EZ PORT &amp; SIO (87383)</b>	2C
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# M11 Core & BATTERY



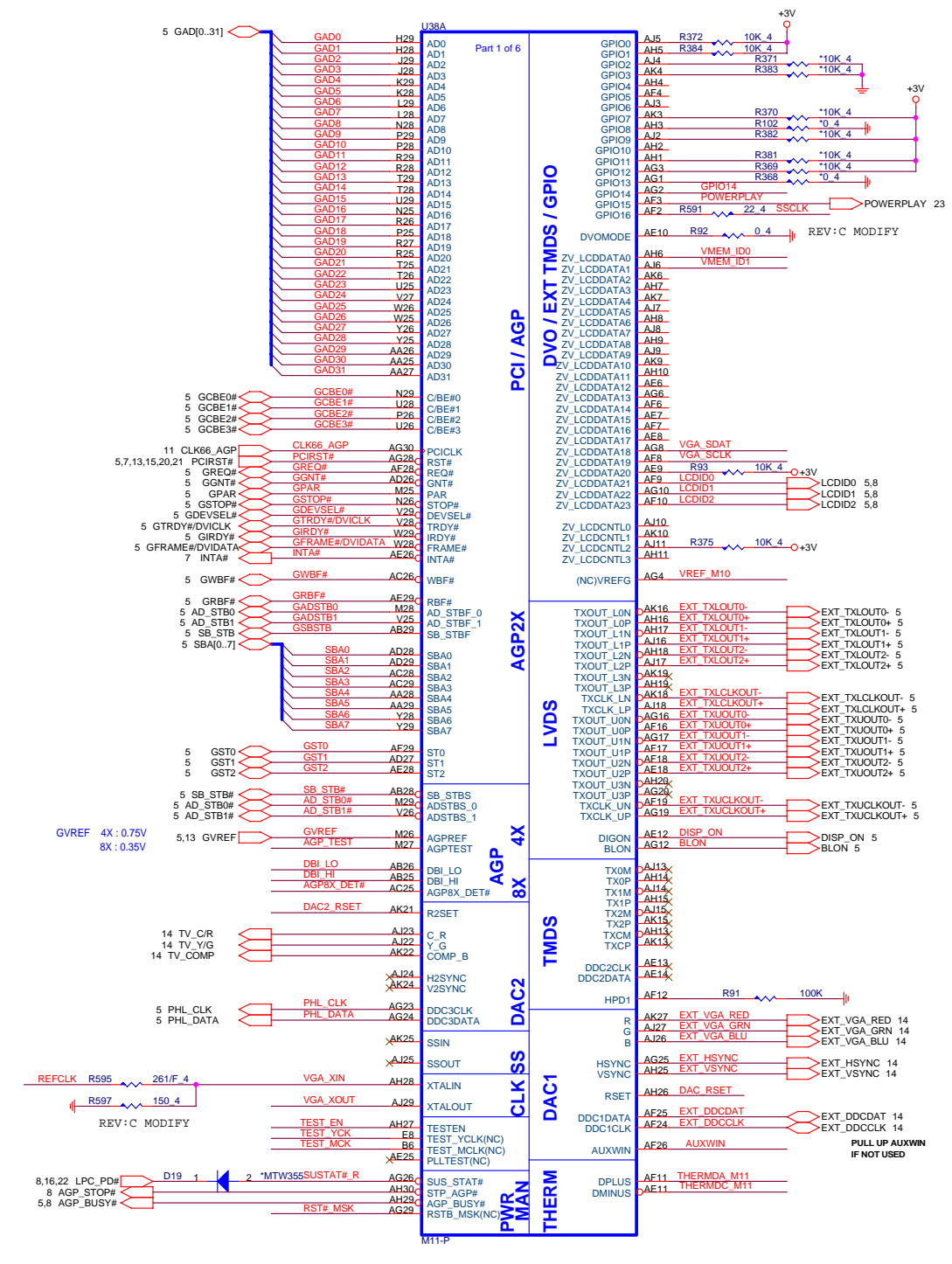


**PROJECT : ZL1**  
**Quanta Computer Inc.**

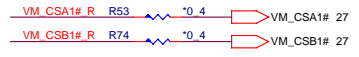
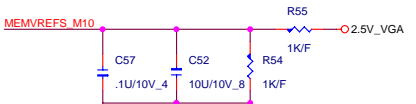
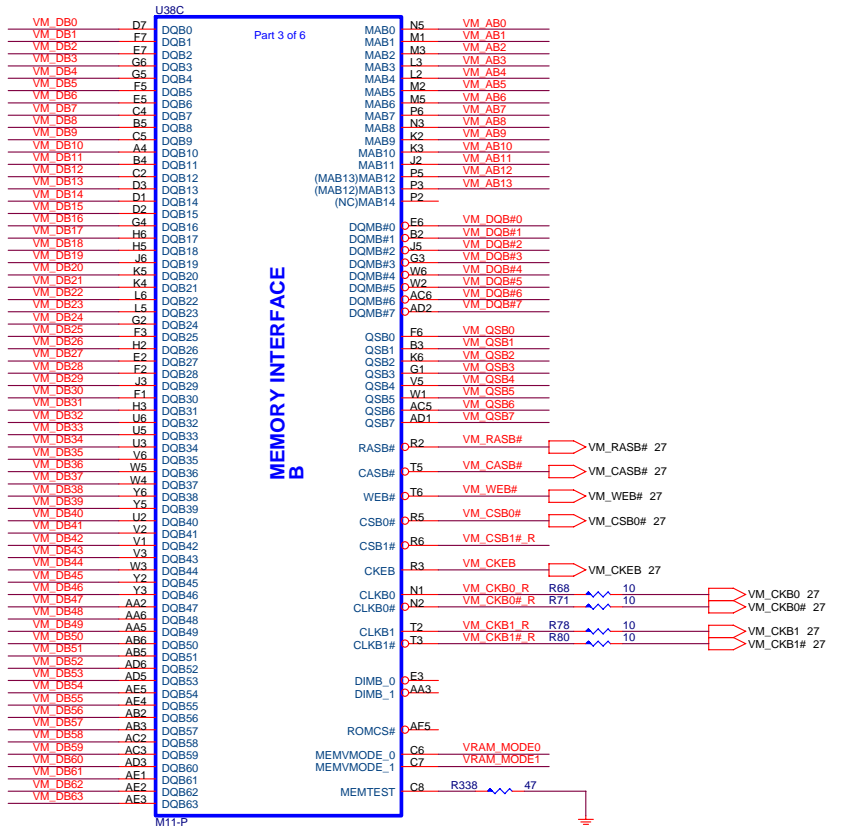
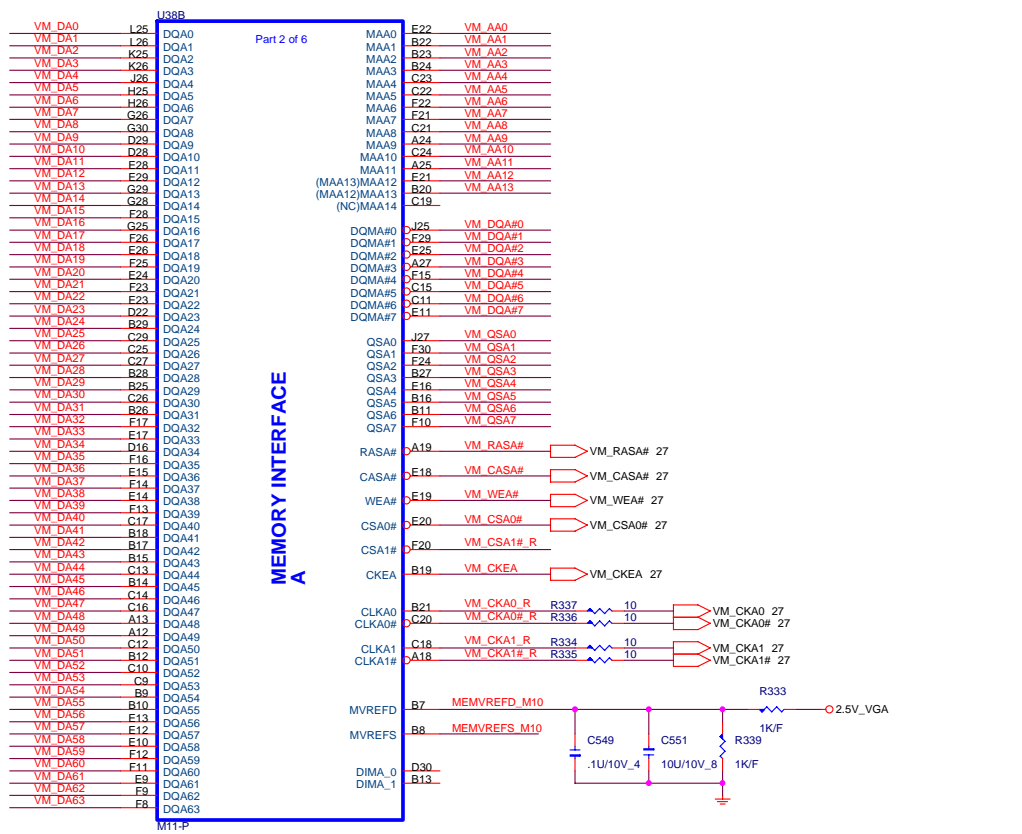
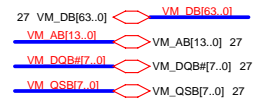
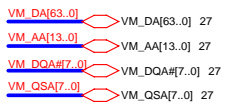
Size	Document Number	Rev
	<b>VGA CORE / VRAM POWER</b>	<b>3D</b>
Date:	Thursday, August 26, 2004	Sheet 23 of 34



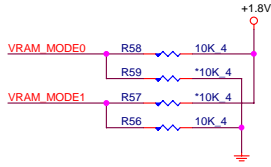
# VGA (AGP, DISPLAY)



# VGA(MEMORY I/F)



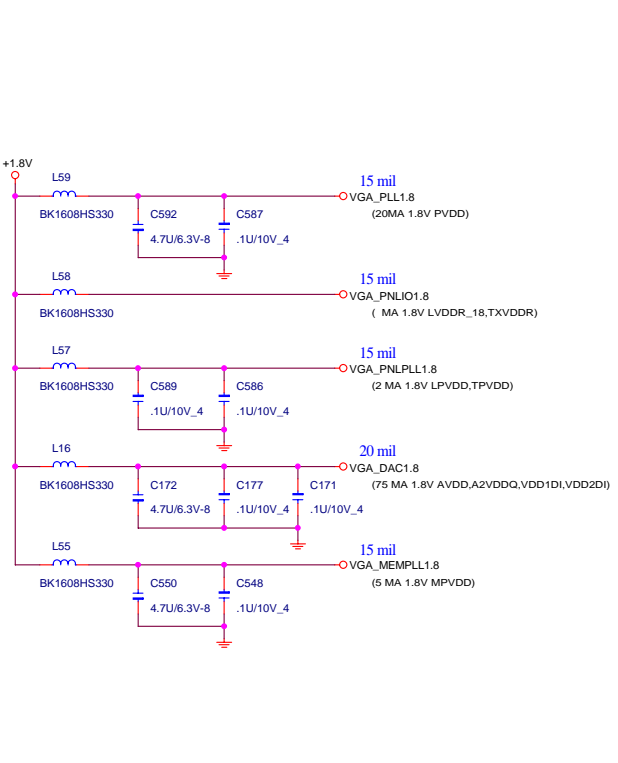
Mount these parts when use hynix 256Mb(8Mx32) VRAM chip



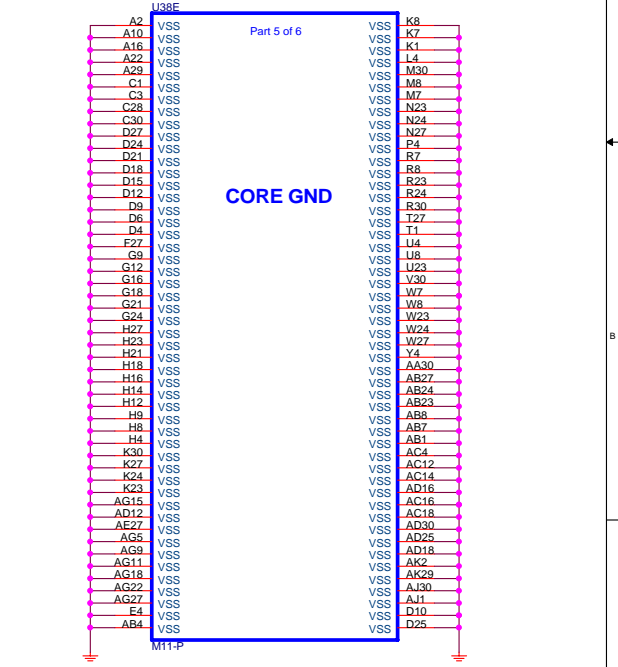
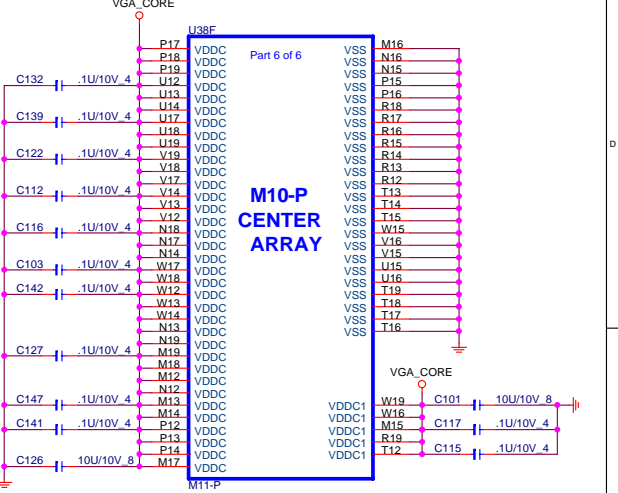
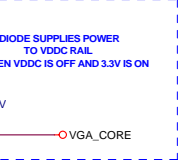
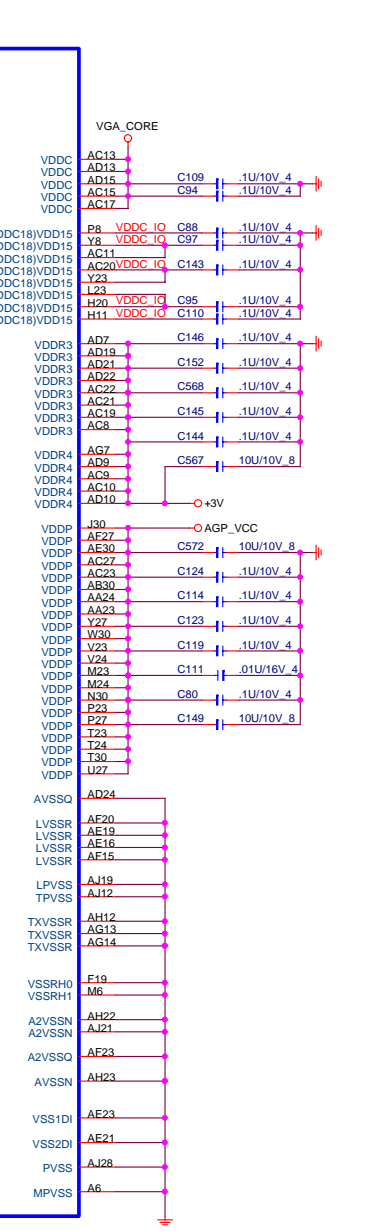
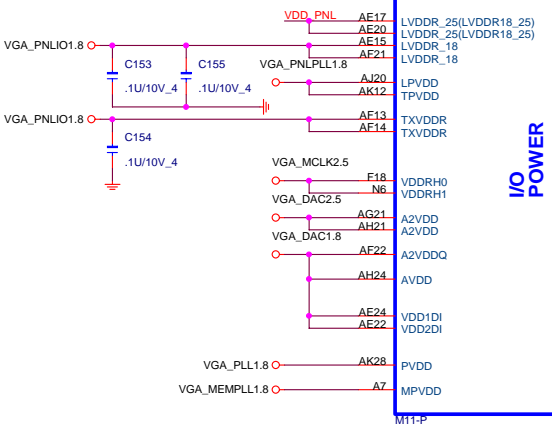
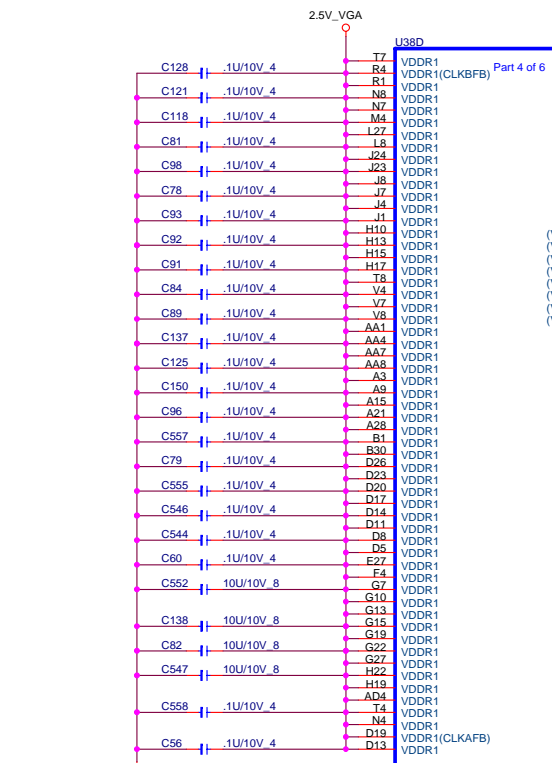
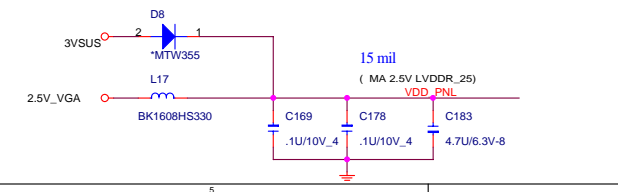
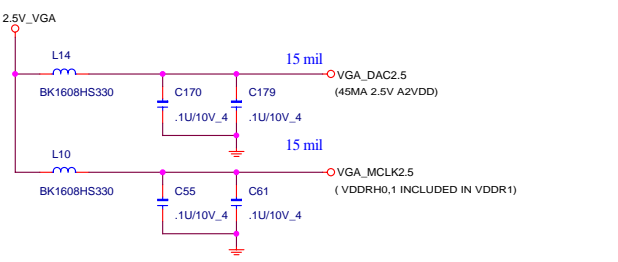
	VRAM_MODE1	VRAM_MODE0
2.5V	0	1
1.8V	1	0
2.8V	1	1

VRAM type setting

**VGA(POWER)**



Via : 6 ( 40/24 )  
5A ( 200mil )  
Plane

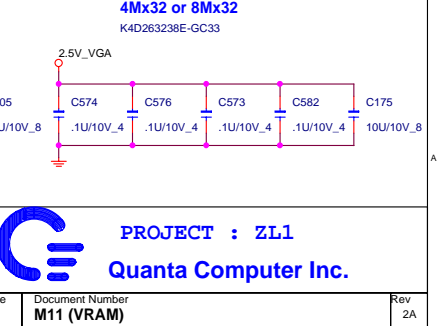
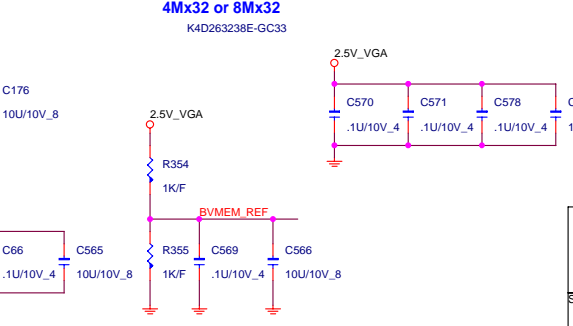
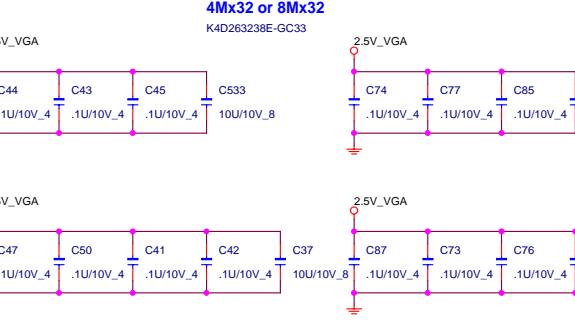
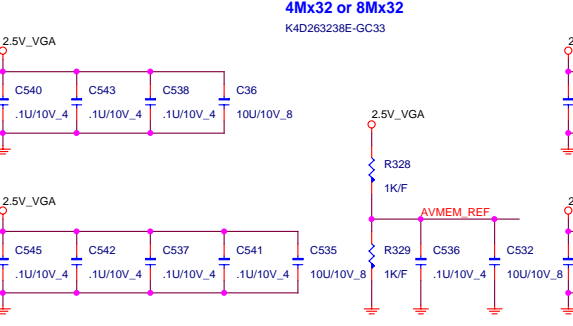
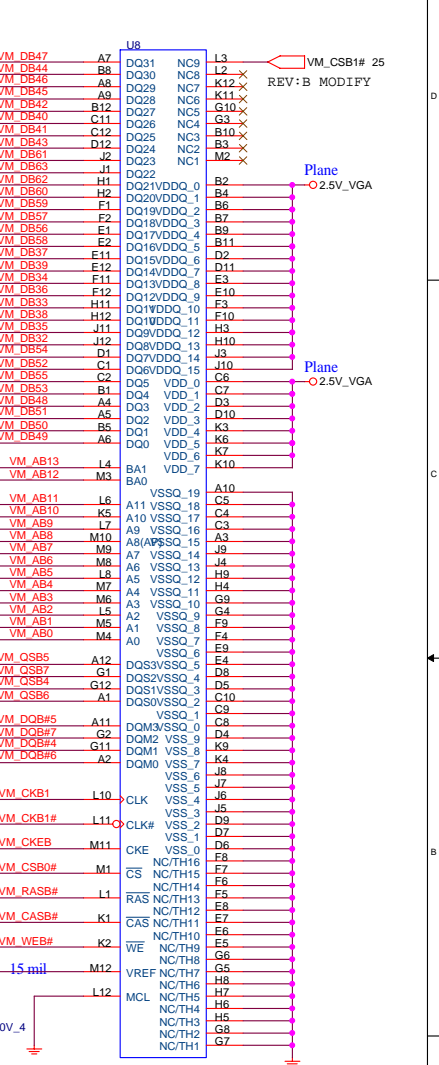
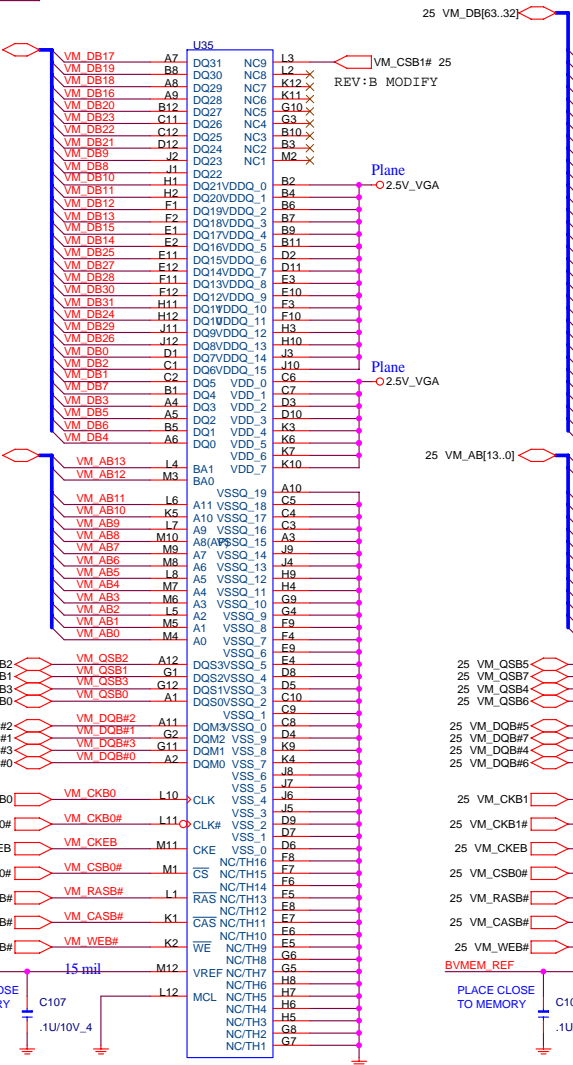
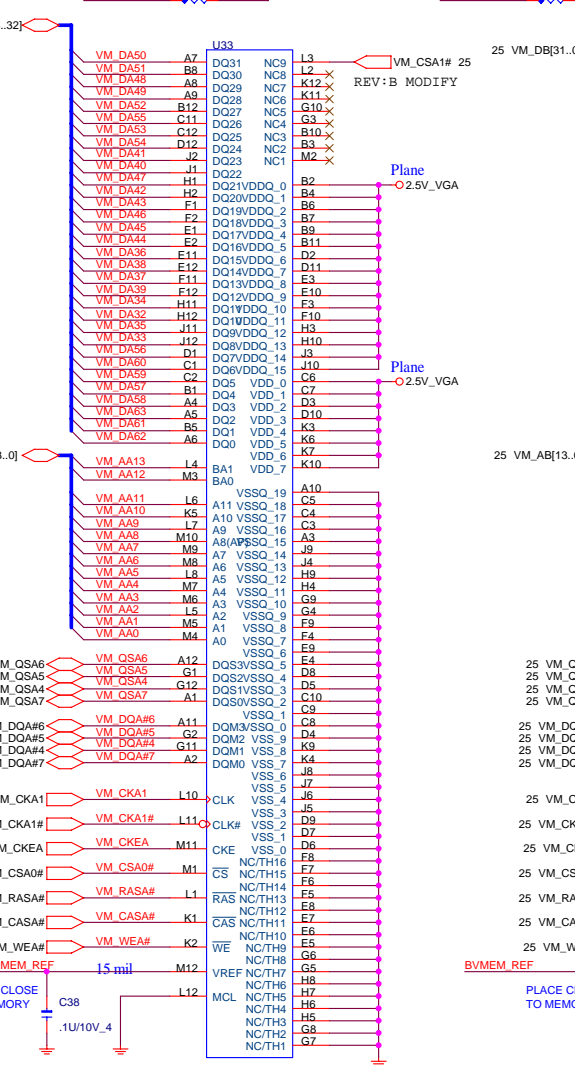
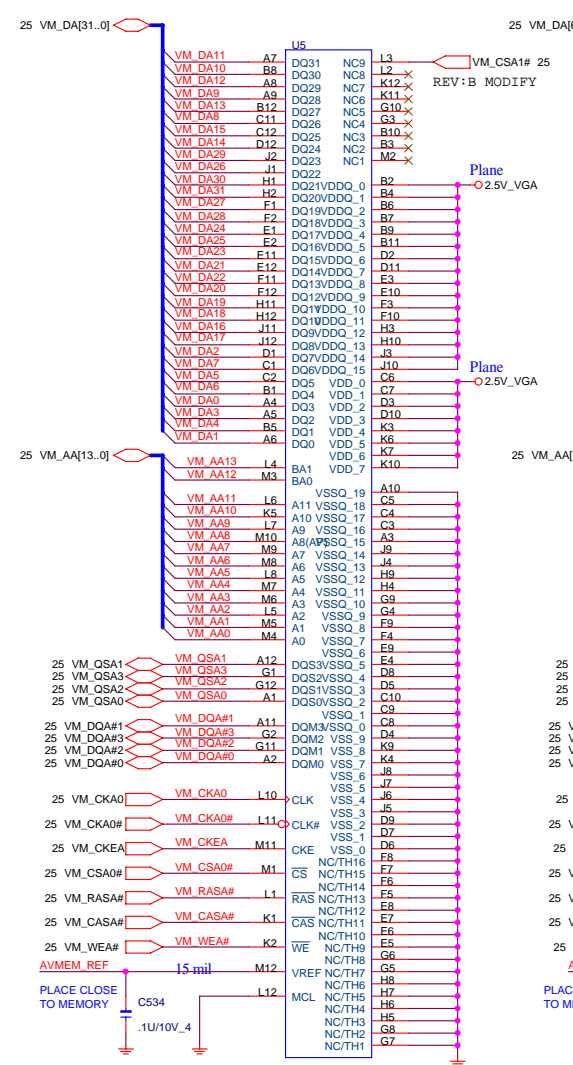


**PROJECT : ZL1**  
**Quanta Computer Inc.**

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	<b>M11 ( POWER )</b>	2A
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# VGA(VRAM) VRAM Channel A

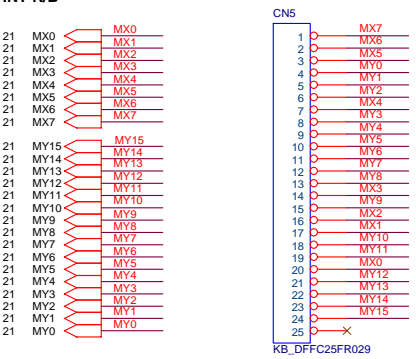
# VRAM Channel B



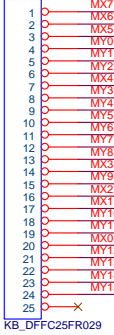
**PROJECT : ZL1**  
**Quanta Computer Inc.**

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	<b>M11 (VRAM)</b>	2A
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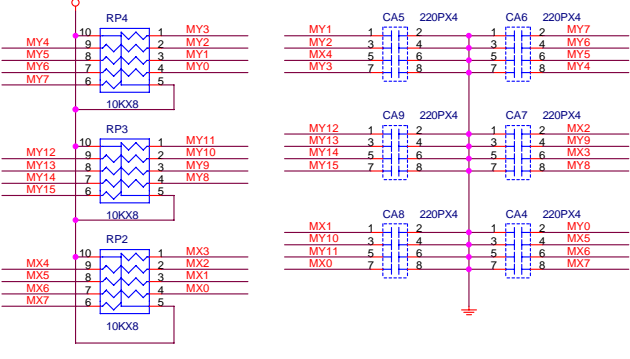
**INT K/B**



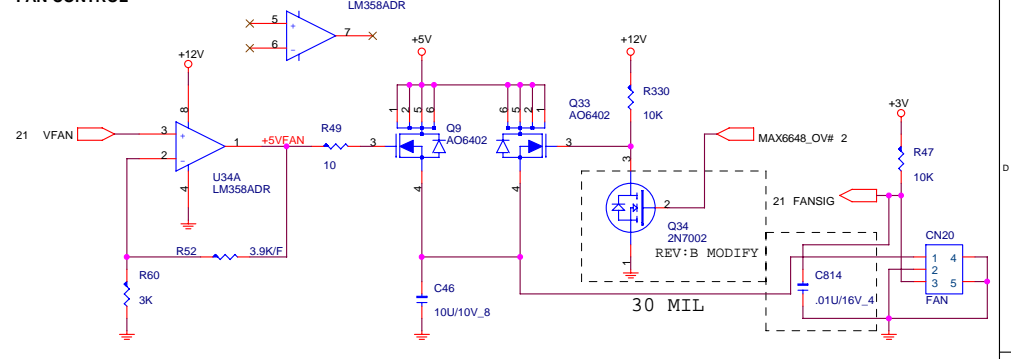
**REV:C MODIFY**



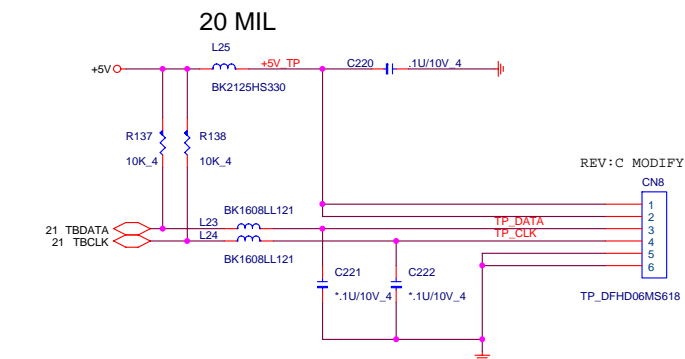
**3V\_ALWAYS**



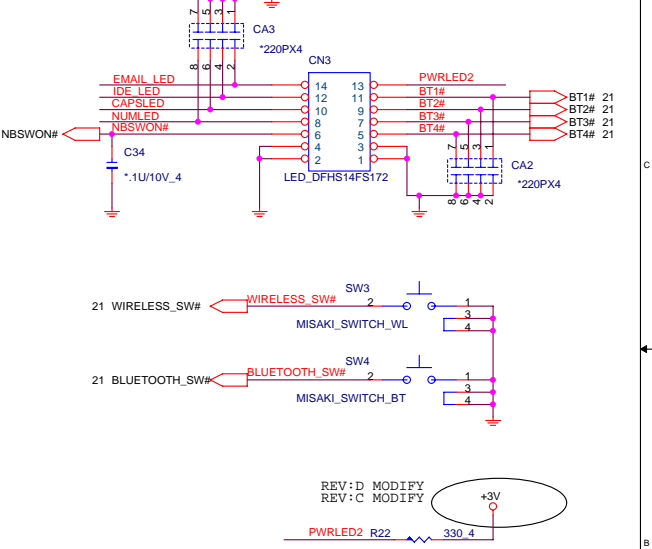
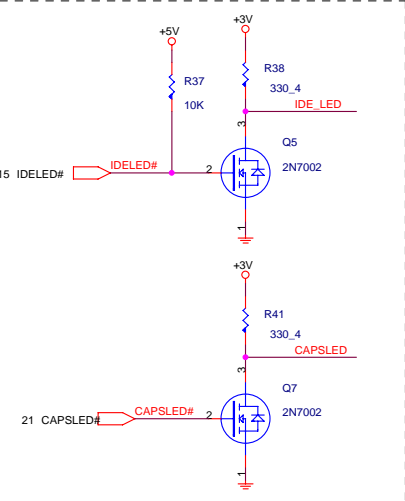
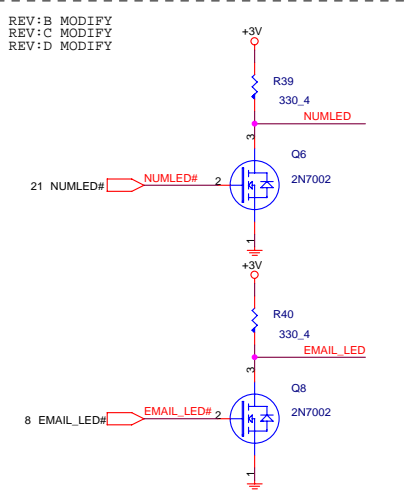
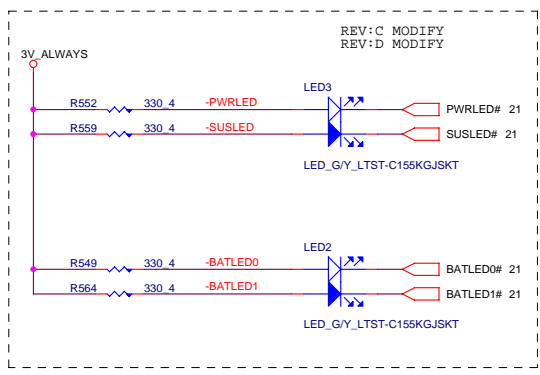
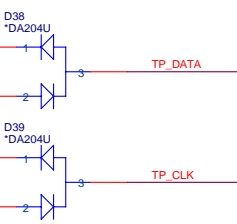
**FAN CONTROL**



**TOUCH PAD**

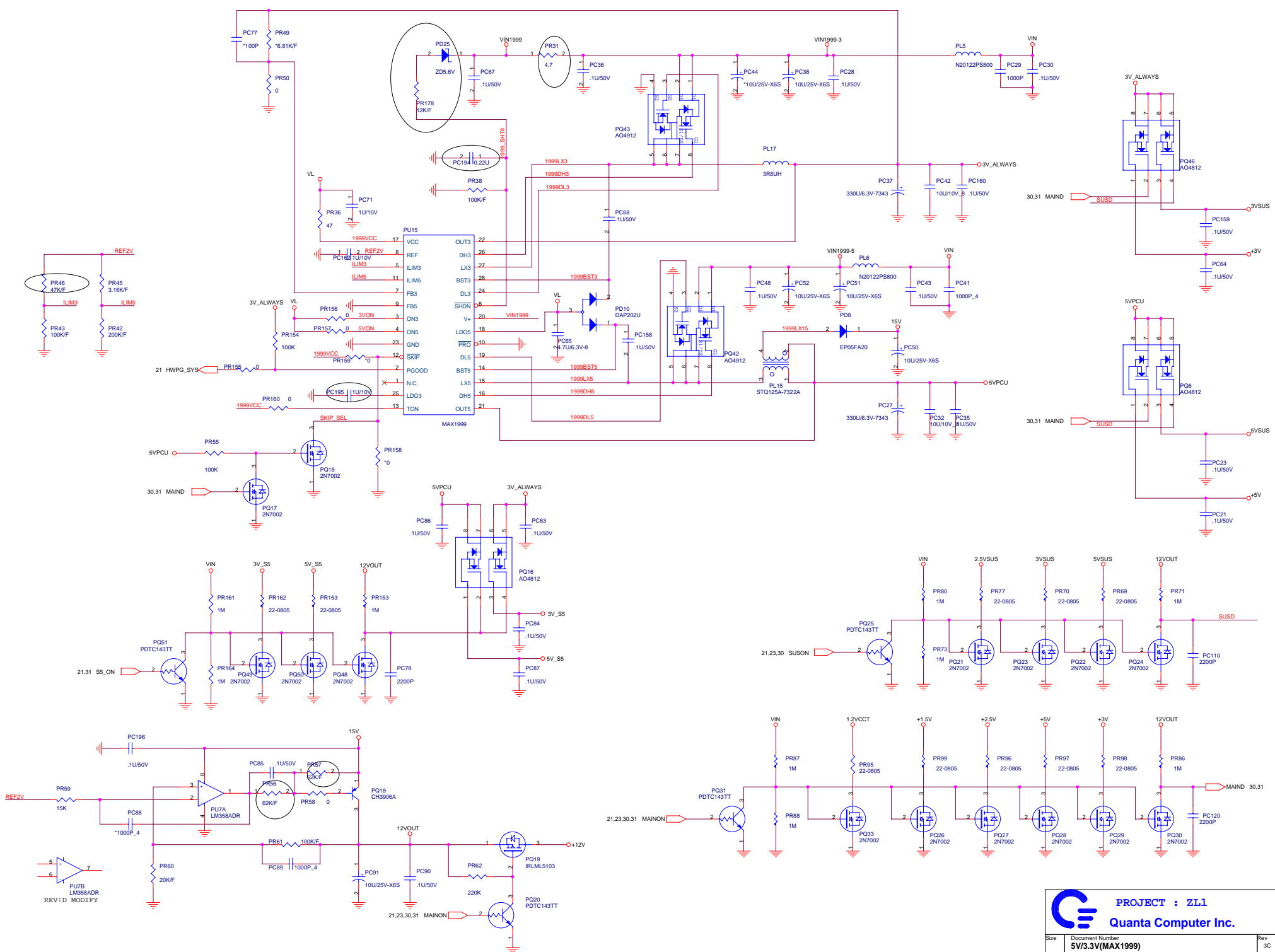


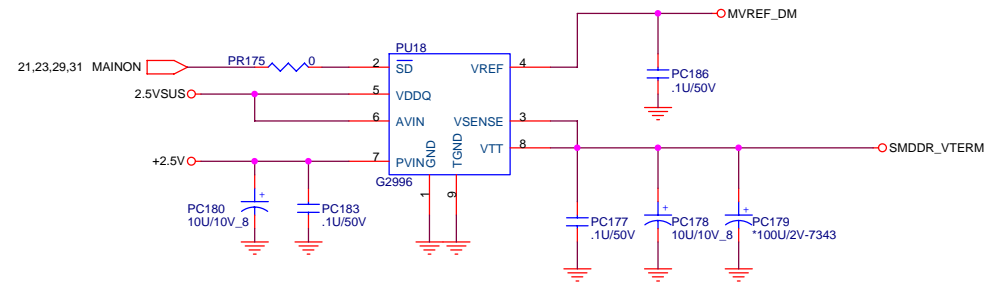
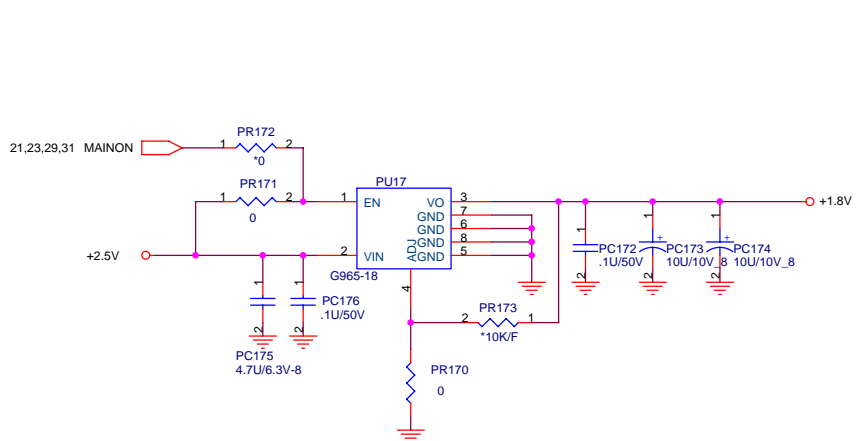
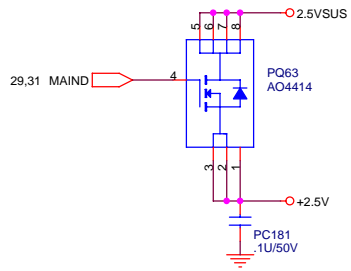
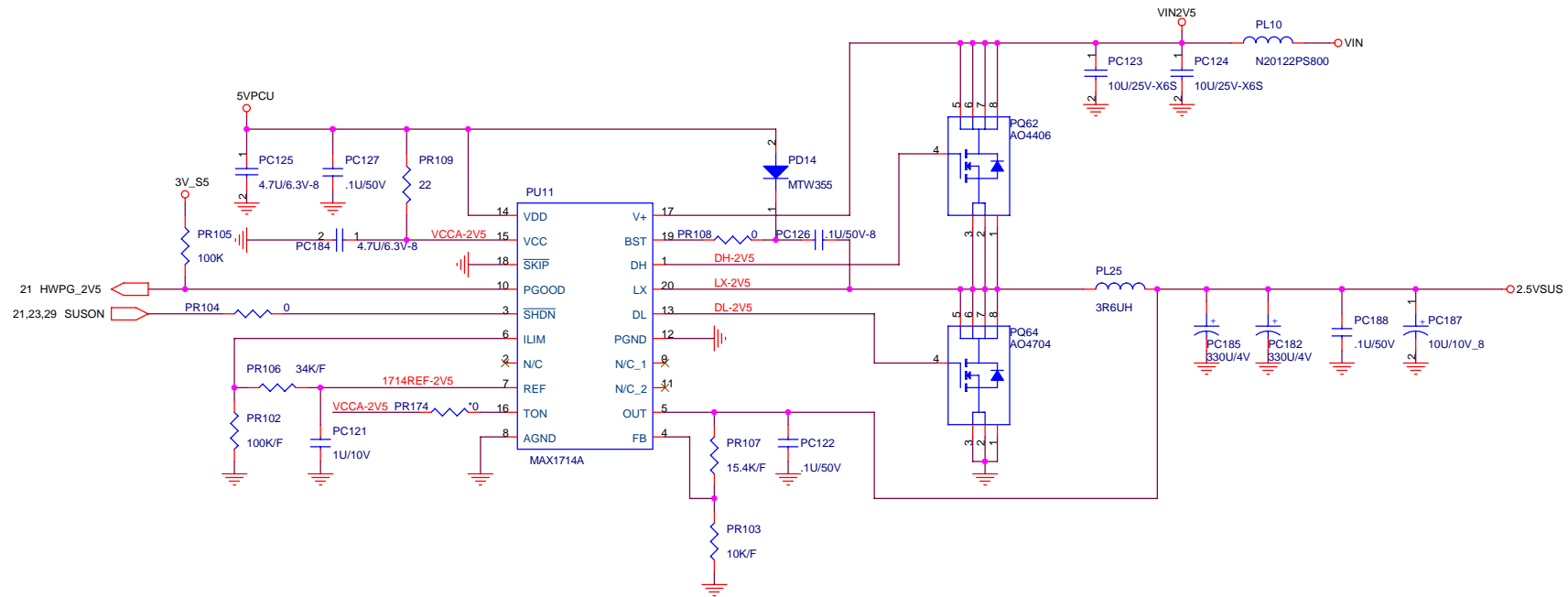
**REV:C MODIFY**



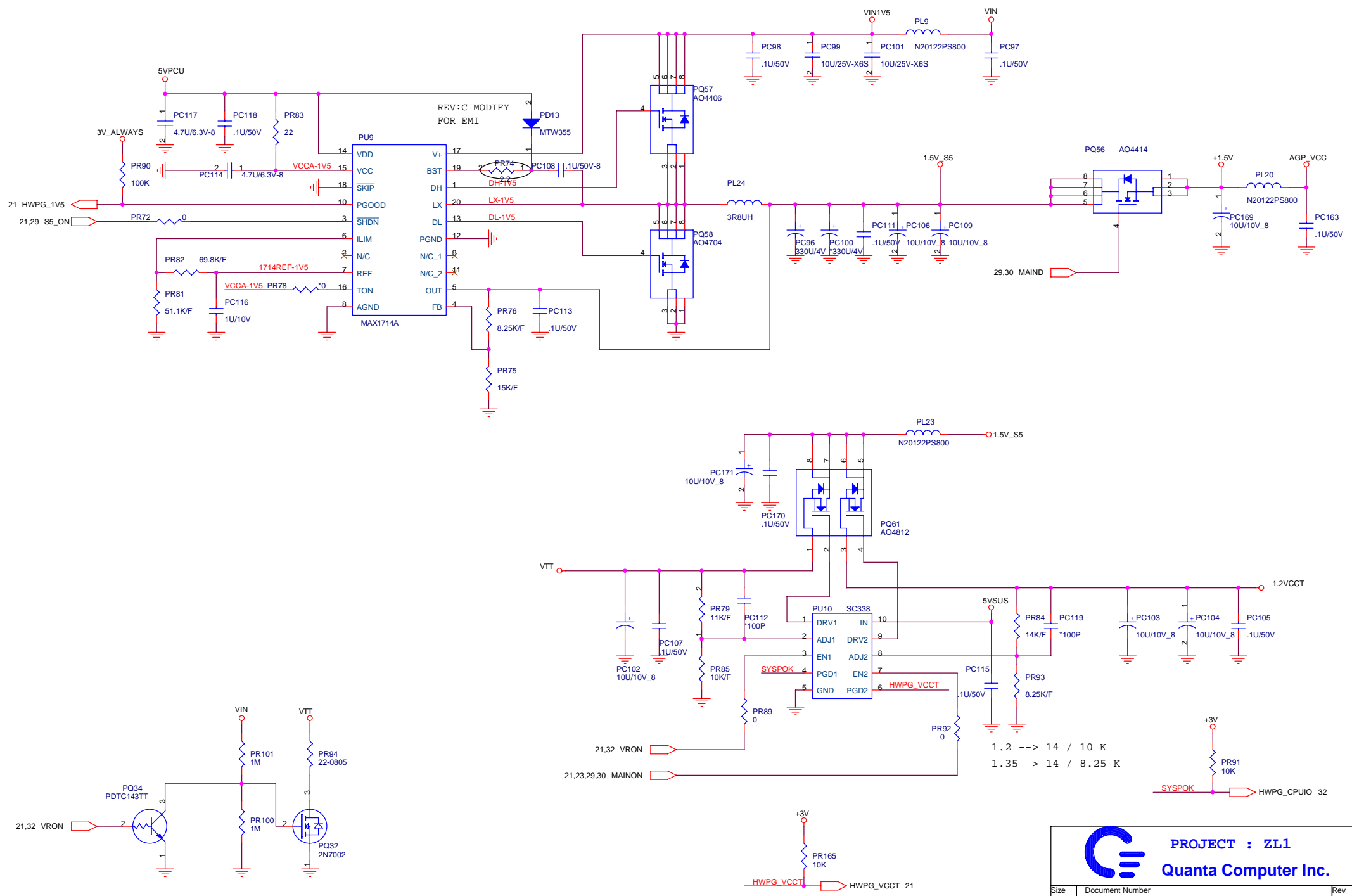
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**Quanta Computer Inc.**


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	<b>T/P,FAN,SWITCH,LED,K/B</b>	3A
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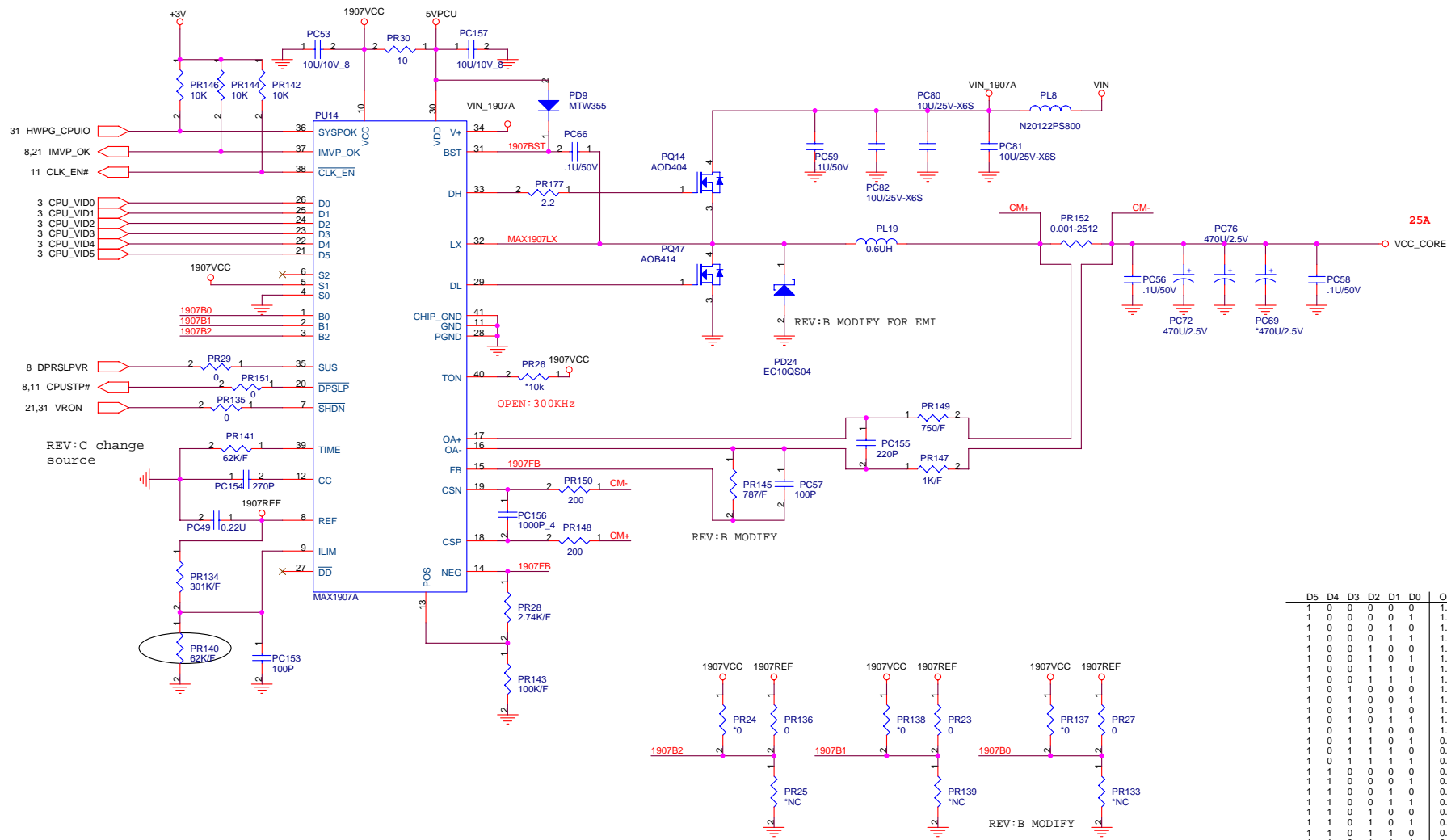
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**Quanta Computer Inc.**

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	<b>+1.5 / CPUIO</b>	2C
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D5	D4	D3	D2	D1	D0	Output	D5	D4	D3	D2	D1	D0	Output
1	0	0	0	0	0	1.196V	0	0	0	0	0	0	1.708V
1	0	0	0	0	1	1.180V	0	0	0	0	0	1	1.692V
1	0	0	0	1	0	1.184V	0	0	0	0	0	1	1.676V
1	0	0	0	1	1	1.148V	0	0	0	0	1	1	1.660V
1	0	0	1	0	0	1.132V	0	0	0	1	0	0	1.644V
1	0	0	1	0	1	1.116V	0	0	0	1	0	1	1.628V
1	0	0	1	1	0	1.100V	0	0	0	1	0	1	1.612V
1	0	1	0	0	0	1.084V	0	0	0	1	1	0	1.596V
1	0	1	0	0	1	1.068V	0	0	1	0	0	0	1.580V
1	0	1	0	1	0	1.052V	0	0	1	0	0	1	1.564V
1	0	1	0	1	1	1.036V	0	0	1	0	1	0	1.548V
1	0	1	1	0	0	1.020V	0	1	0	0	0	1	1.532V
1	0	1	1	0	1	1.004V	0	1	0	0	1	0	1.516V
1	0	1	1	1	0	0.988V	0	1	1	0	1	0	1.500V
1	0	1	1	1	1	0.972V	0	0	1	1	1	0	1.484V
1	0	1	1	1	1	0.956V	0	0	1	1	1	1	1.468V
1	1	0	0	0	0	0.940V	0	1	0	0	0	0	1.452V
1	1	0	0	0	1	0.924V	0	1	0	0	1	0	1.436V
1	1	0	0	1	0	0.908V	0	1	0	0	1	0	1.420V
1	1	0	0	1	1	0.892V	0	1	0	0	1	1	1.404V
1	1	0	1	0	0	0.876V	0	1	0	1	0	0	1.388V
1	1	0	1	0	1	0.860V	0	1	0	1	0	1	1.372V
1	1	0	1	1	0	0.844V	0	1	0	1	1	0	1.356V
1	1	0	1	1	1	0.828V	0	1	0	1	1	1	1.340V
1	1	1	0	0	0	0.812V	0	1	1	0	0	0	1.324V
1	1	1	0	0	1	0.796V	0	1	1	0	0	1	1.308V
1	1	1	0	1	0	0.780V	0	1	1	0	1	0	1.292V
1	1	1	0	1	1	0.764V	0	1	1	0	1	1	1.276V
1	1	1	1	0	0	0.748V	0	1	1	1	0	0	1.260V
1	1	1	1	0	1	0.732V	0	1	1	1	0	1	1.244V
1	1	1	1	1	0	0.716V	0	1	1	1	1	0	1.228V
1	1	1	1	1	1	0.700V	0	1	1	1	1	1	1.212V

SUSPEND MODE (SUS=HIGH)

S2	S1	S0	Output
✓ OPEN	VCC	GND	0.748V

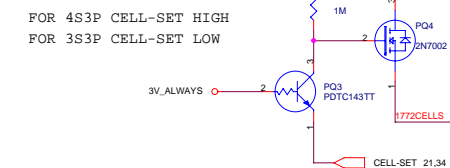
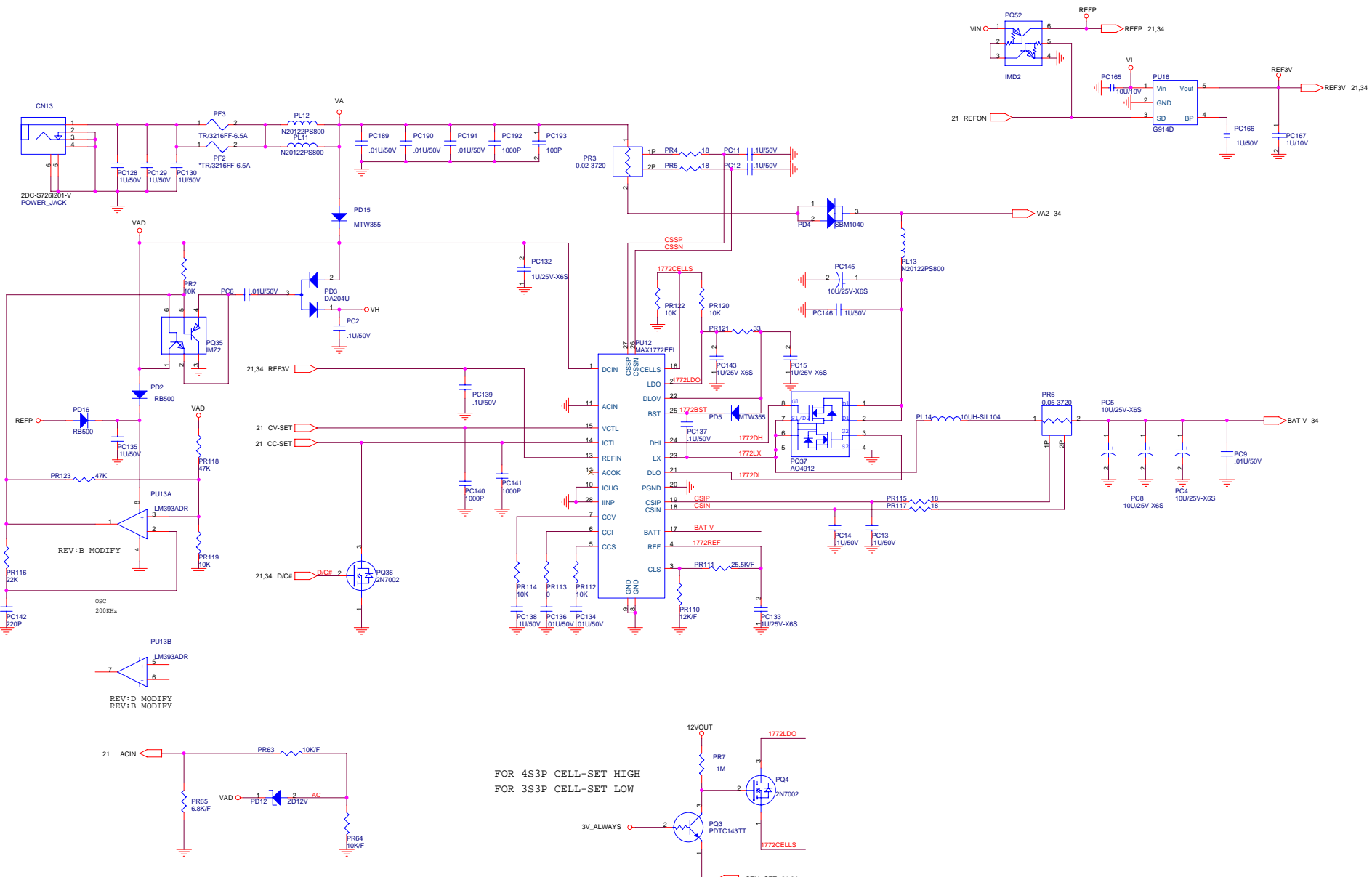
VCC\_BOOT

B2	B1	B0	Output
✓ GND	GND	GND	1.708V
REF	REF	REF	1.372V
OPEN	OPEN	OPEN	1.036V
VCC	VCC	VCC	0.700V
REF	VCC	VCC	1.212V

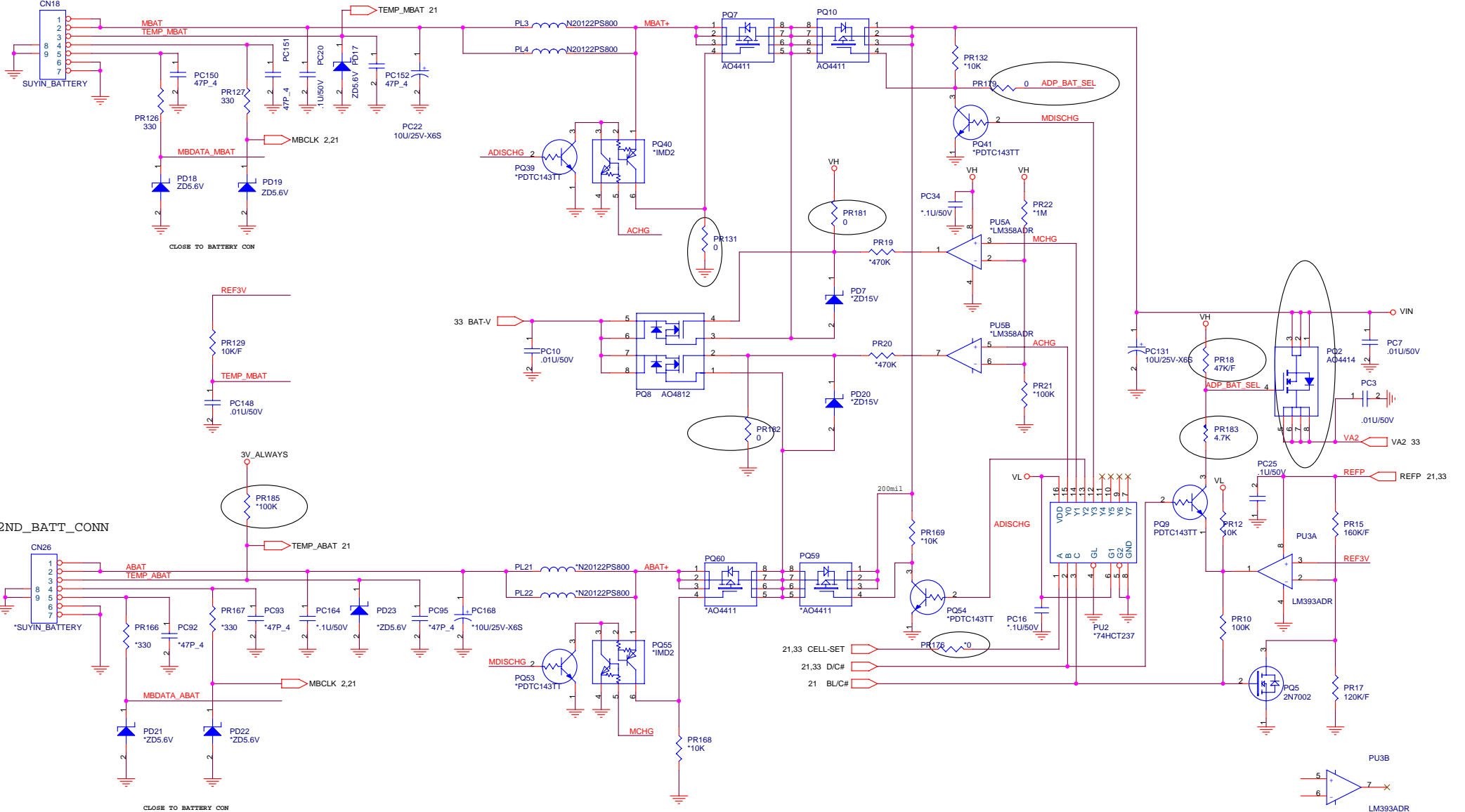


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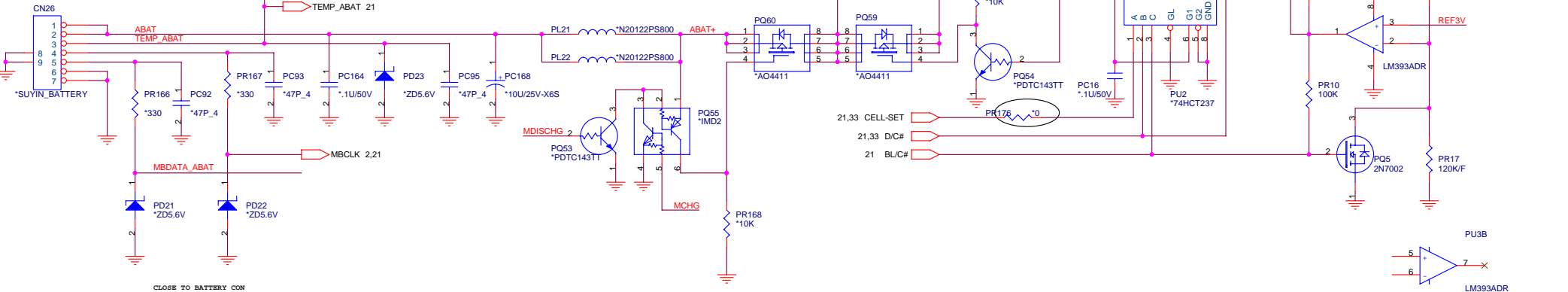
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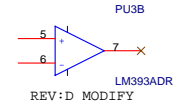
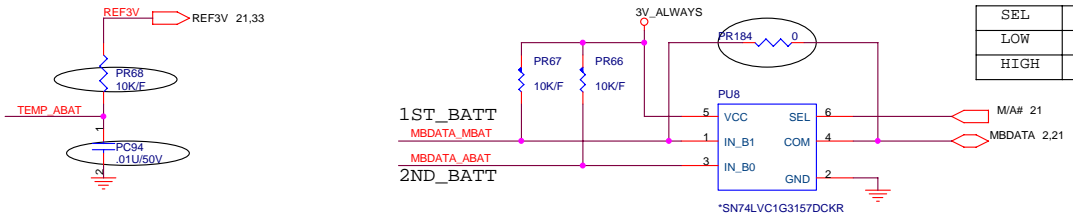
1ST\_BATT\_CONN



2ND\_BATT\_CONN



SEL	FUNCTION
LOW	IN_B0
HIGH	IN_B1



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**BATTERY SELECT**  
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