

MODEL:	REV	CHANGE LIST	MODEL		
			ET2S	MB (LAN)	
			PAGE	FROM	TO
ET2S MB (LAN)	3A	FIRST RELEASE	1	3C	
	3B	Reference ECN :E200206-0630	2	3C	3D
	3C	Reference ECN :E200206-0675	3	3C	
	3D	Reference ECN :E200207-1262	4	3C	
			5	3C	
			6	3C	
			7	3C	
			8	3C	
			9	3C	
			10	3C	
			11	3C	
			12	3C	
			13	3C	
			14	3C	
			15	3C	
			16	3C	
			17	3C	
			18	3C	
			19	3C	
			20	3C	
			21	3C	
			22	3C	
			23	3C	
			24	3C	
			25	3C	



Quanta Computer Inc.

Project : ET2S MB(LAN)

MB Assy' P/N: 21ET2MB00C1

Document No.: 204

REV 3D

Approved by : Jacky Lee

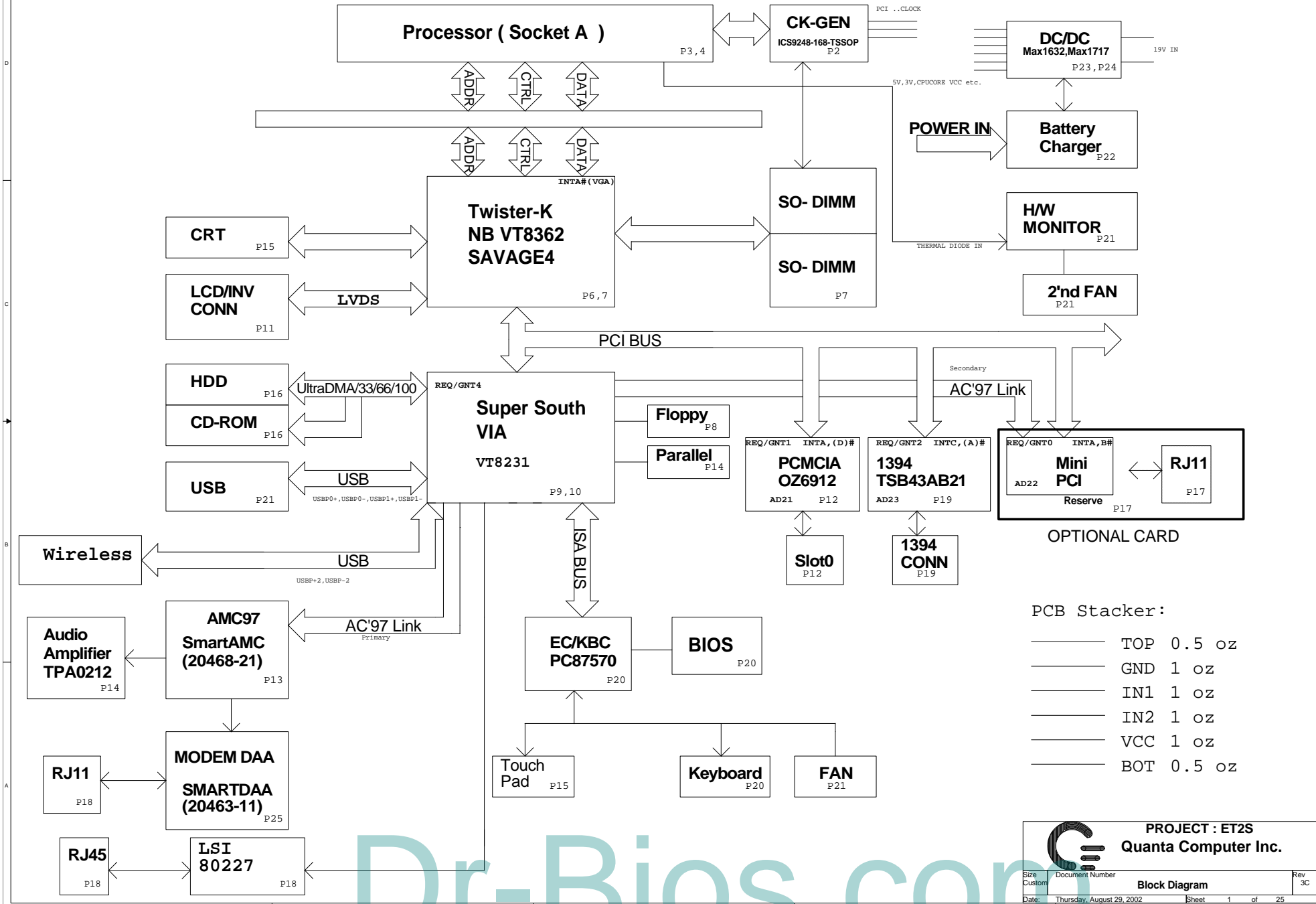
Drawing by : CHIN HAO KUO

DATE: 2002/5/28

Cover Sheet: 1 of 1

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ET2S SYSTEM BLOCK DIAGRAM



PCB Stacker:

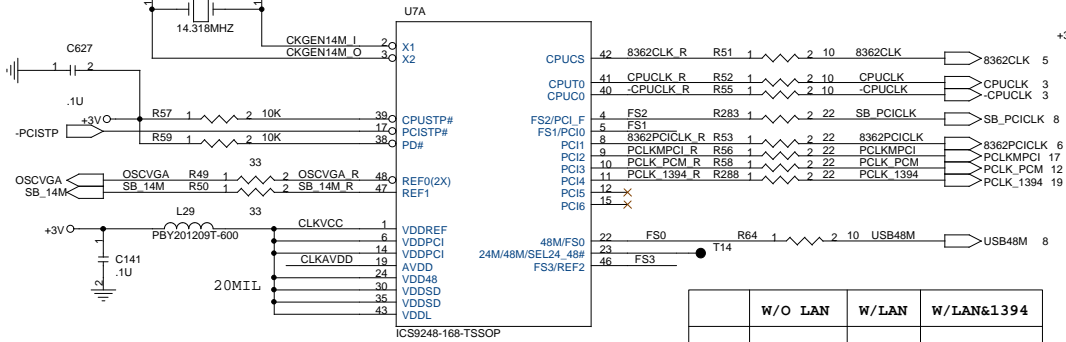
- _____ TOP 0.5 oz
- _____ GND 1 oz
- _____ IN1 1 oz
- _____ IN2 1 oz
- _____ VCC 1 oz
- _____ BOT 0.5 oz

PROJECT : ET2S
Quanta Computer Inc.

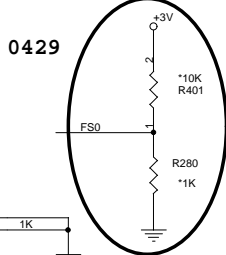
Size Custom	Document Number	Rev 3C
Block Diagram		
Date: Thursday, August 29, 2002	Sheet	1 of 25

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CLOCK GENERATOR

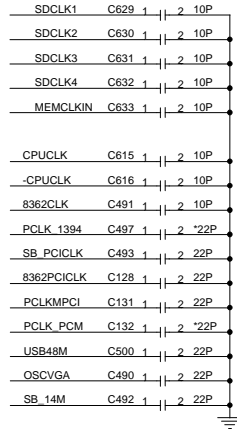


	W/O LAN	W/LAN	W/LAN&1394
R288	NC	NC	Mount



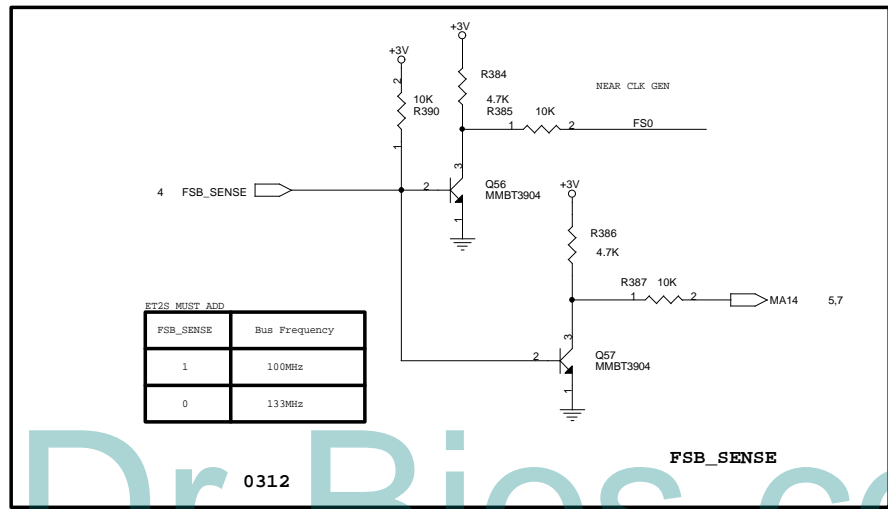
FS2	FS1	FS0	CPU	SS
1	1	1	1.33	+/-0.25%
1	1	0	1.00	+/-0.25%
1	0	1	1.33	+/-0.6%
1	0	0	1.00	+/-0.6%
0	1	1	1.33	-0.5%
0	1	0	1.00	-0.5%
0	0	1	1.33	+/-0.35%
0	0	0	1.00	+/-0.35%

DEFAULT SETTING



CLKVCC trace width: 30mil

- CPUCLK = Lnb-1" (0"~8")
- CPUCLK = Lnb-1" (0"~8")
- 8362CLK = Lnb (1"~9")
- MEMCLKOUT = As short as possible (1"~9")
- MEMCLKIN = Lsd+4.5" (5.5"~8.5")
- DIMCLK[1..4] = Lsd (1"~4")
- DIMCLK0 = Lsd+2.5" (3.5"~6.5")
- 8362PCICLK = Lpci +3" (4"~15")
- SB_PCICLK = Lpci +3" (4"~15")
- PCMCICLK = Lpci (1"~12")
- MINIPCICLK = Lpci (1"~12")



ET2S MUST ADD

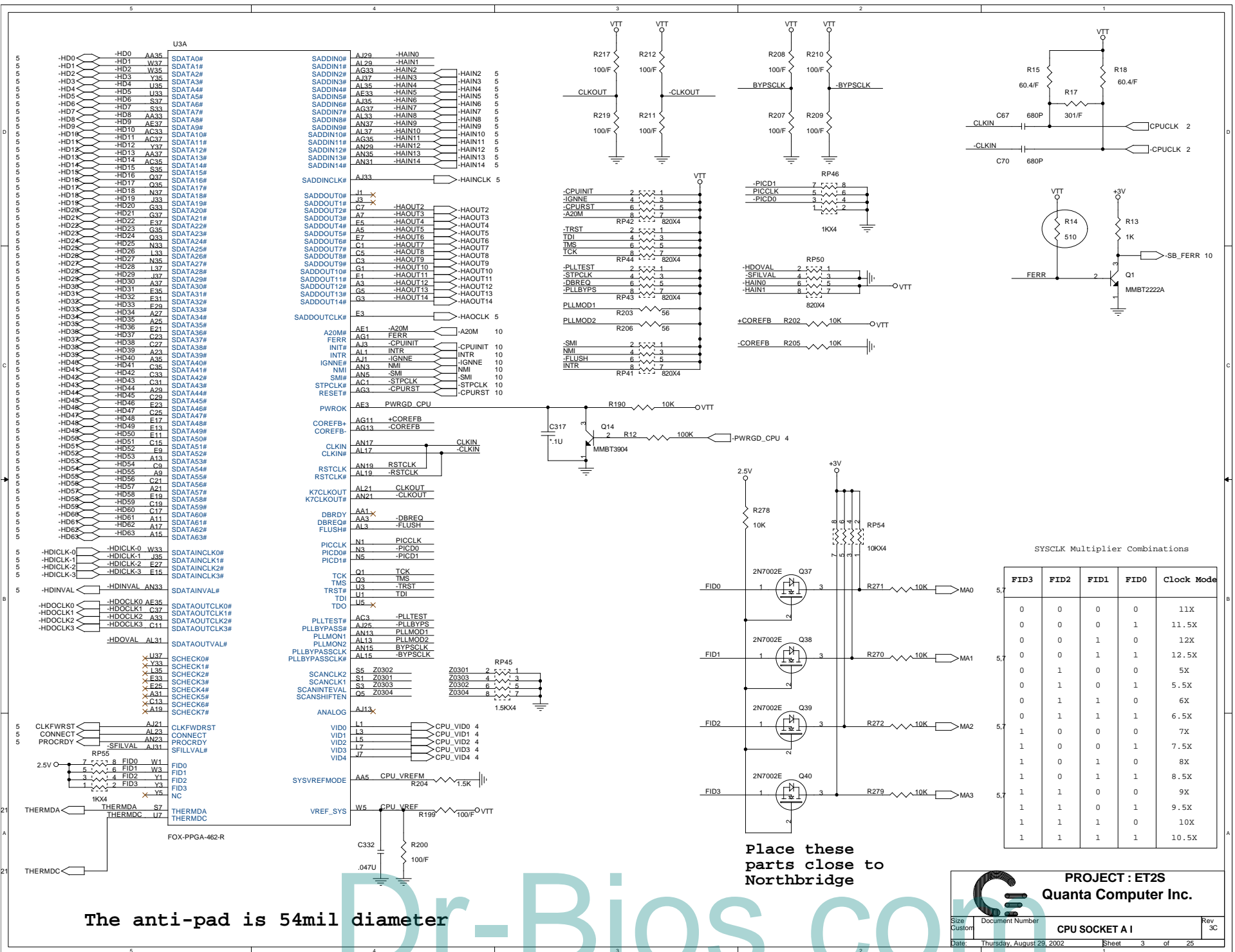
FSB_SENSE	Bus Frequency
1	100MHz
0	133MHz

0312

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Size: Custom | Document Number: **CLOCK GENERATOR** | Rev: 3D

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The anti-pad is 54mil diameter

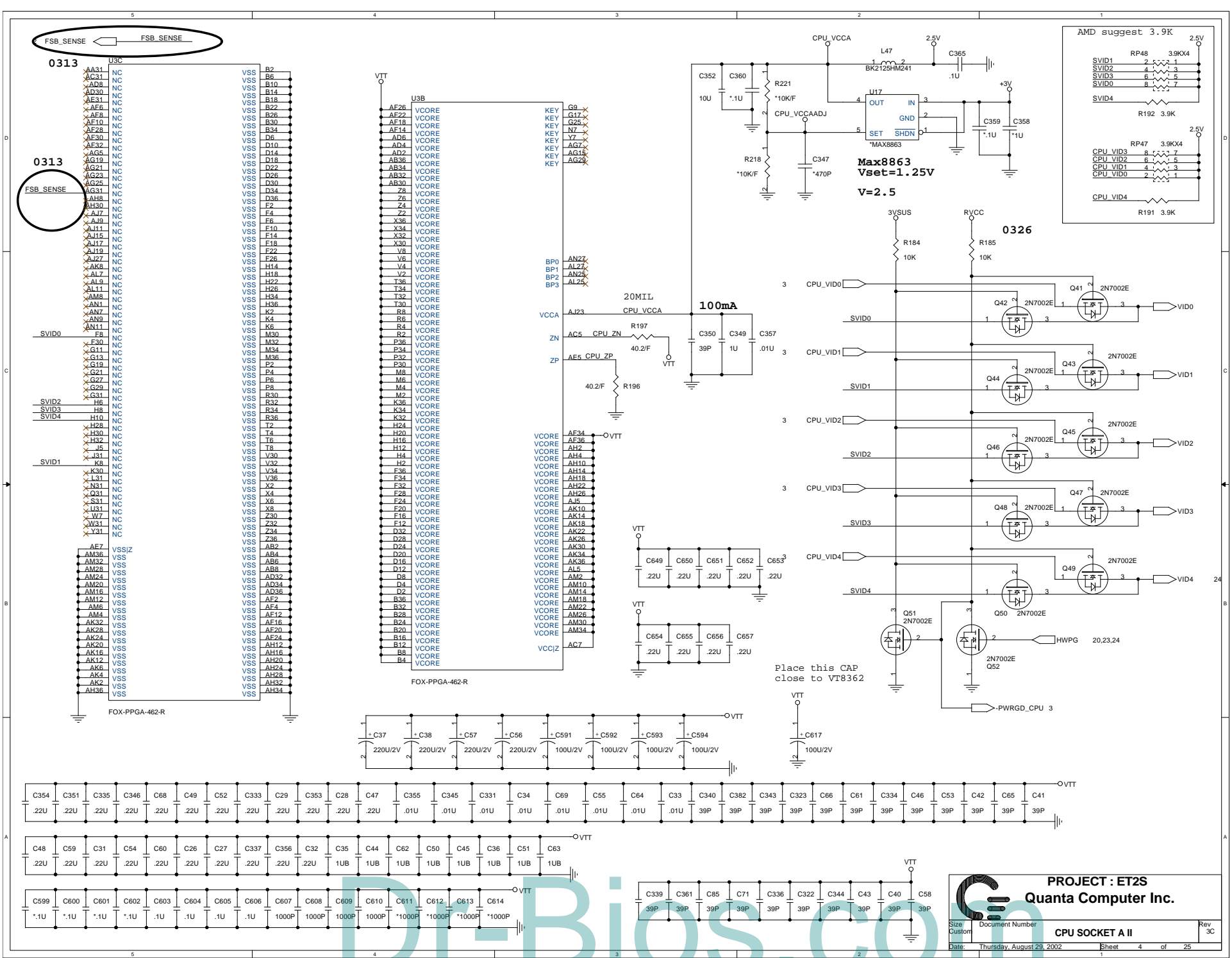
Place these parts close to Northbridge

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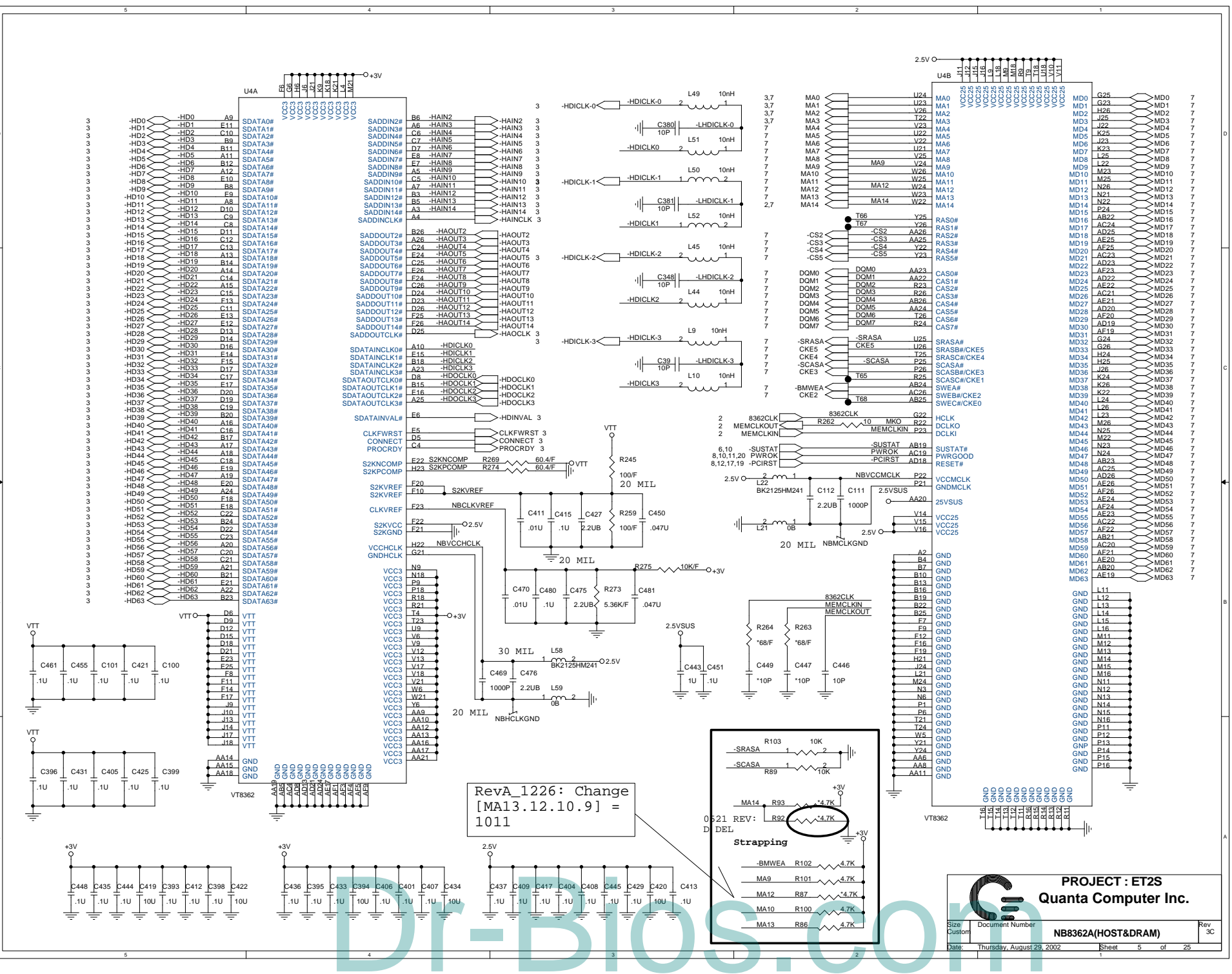
Size: Custom Document Number: CPU SOCKET A I Rev: 3C

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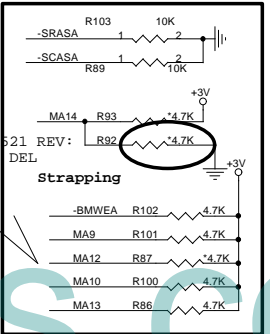




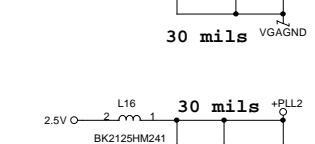
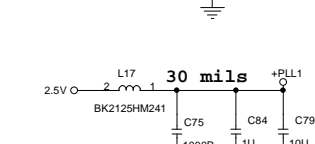
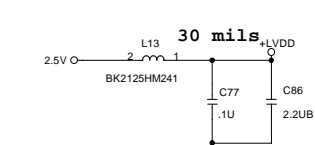
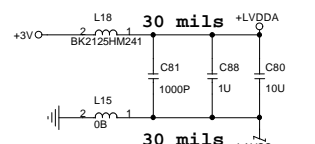
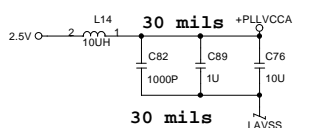
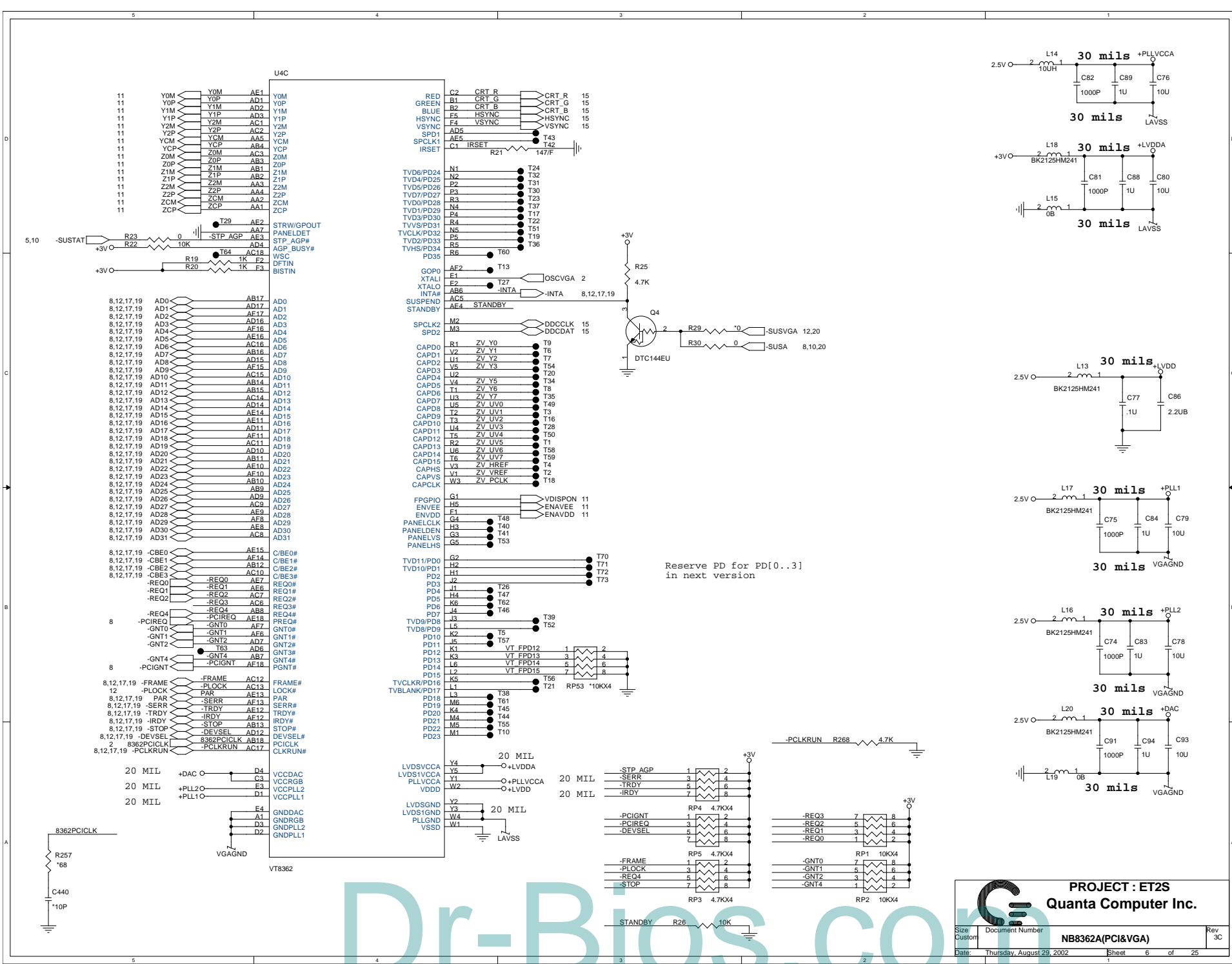
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RevA_1226: Change
[MA13.12.10.9] =
1011



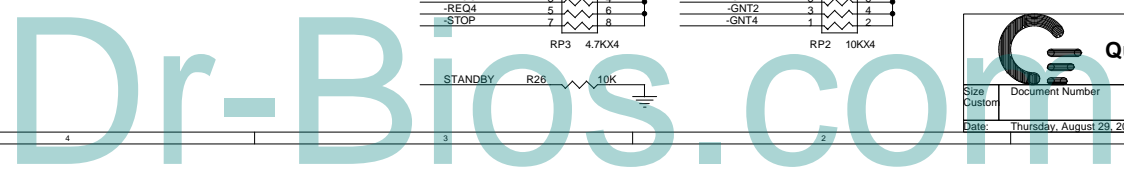
PROJECT : ET2S
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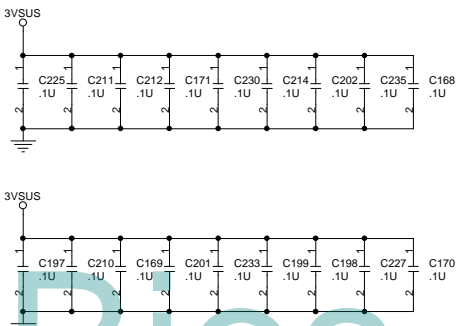
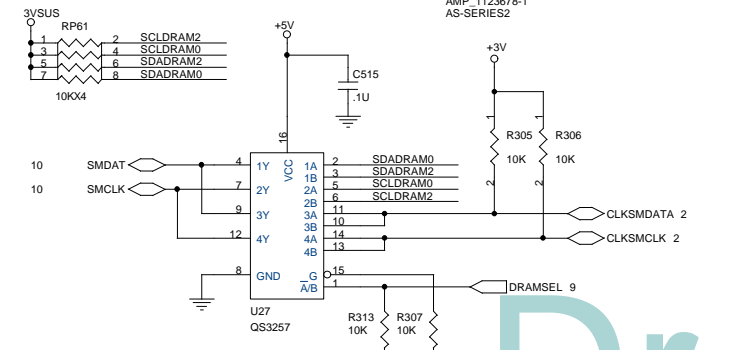
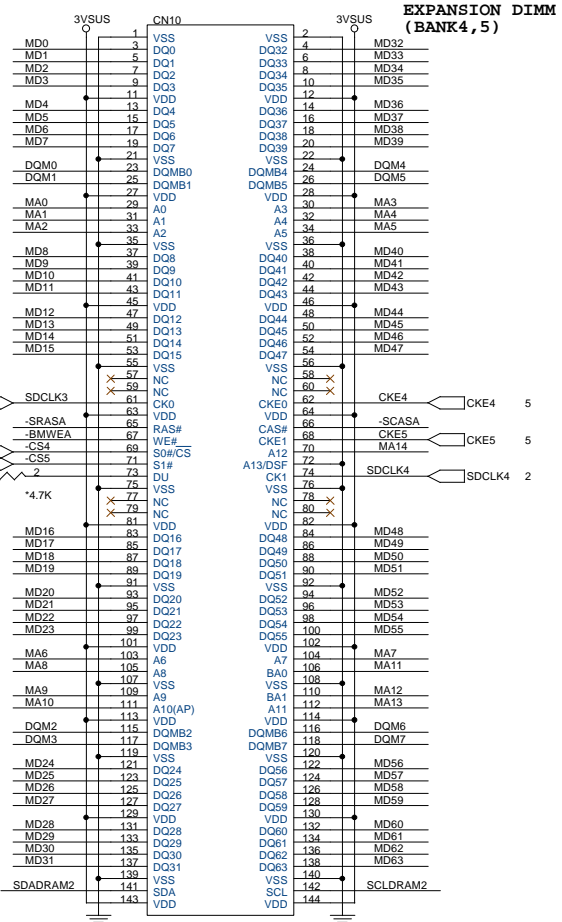
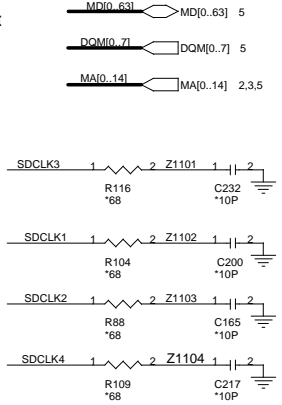
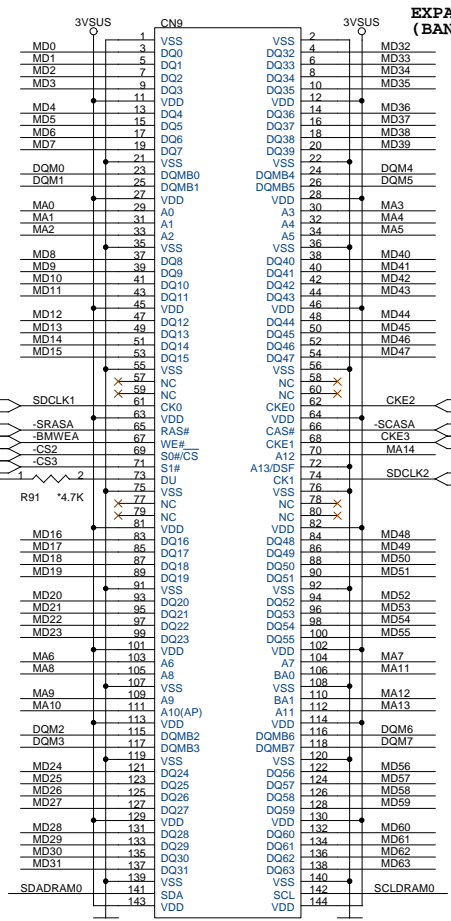
Reserve PD for PD[0..3] in next version

PROJECT : ET2S
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Size: _____ Document Number: **NB8362A(PCI&VGA)** Rev: 3C
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EXPANSION SO-DIMM SOCKET

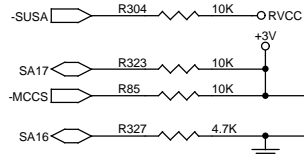


PROJECT : ET2S
Quanta Computer Inc.

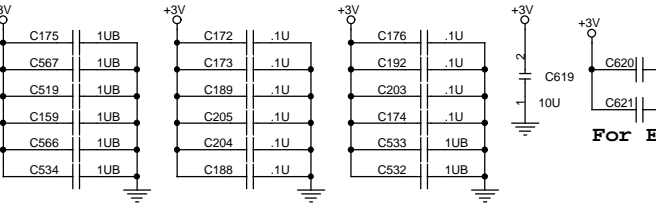
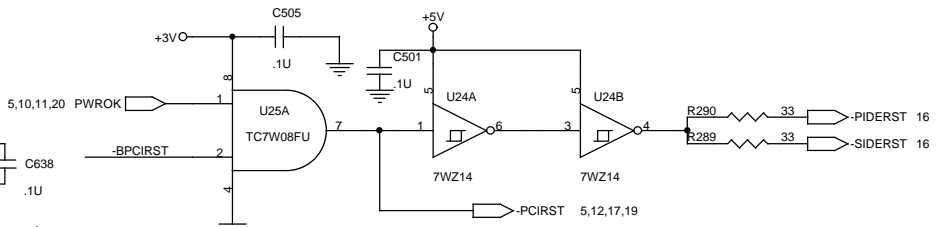
Size: Custom
 Document Number: SO-DIMM
 Date: Thursday, August 29, 2002
 Sheet: 7 of 25
 Rev: 3C

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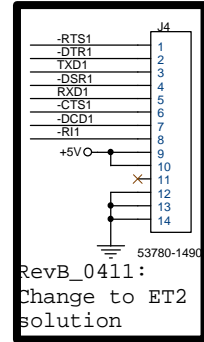
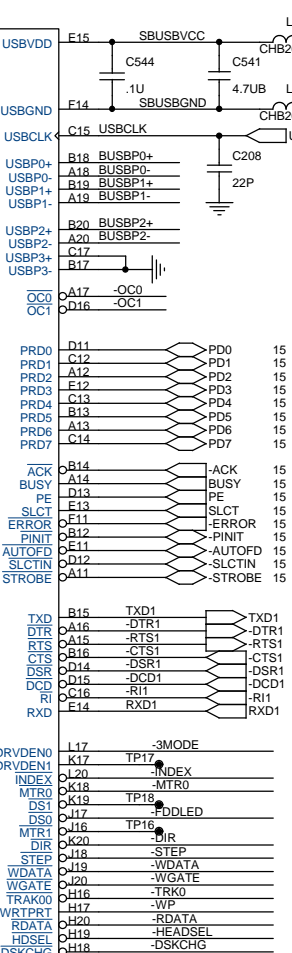
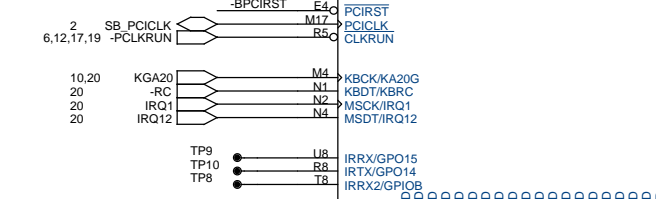
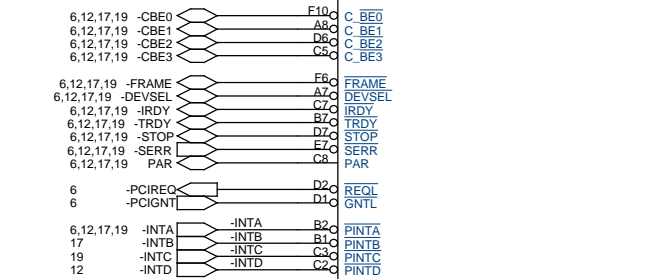
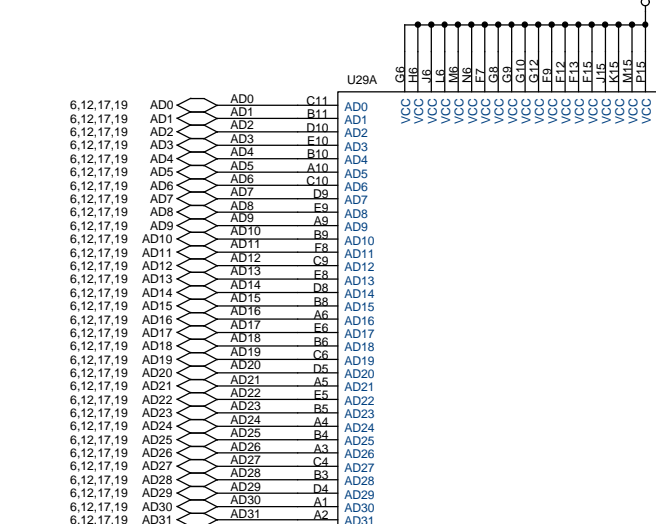
Power-On Configuration Strapping Pins



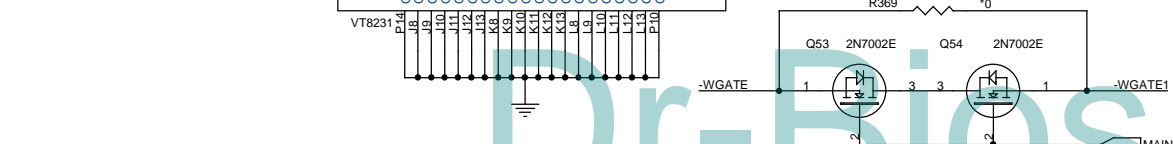
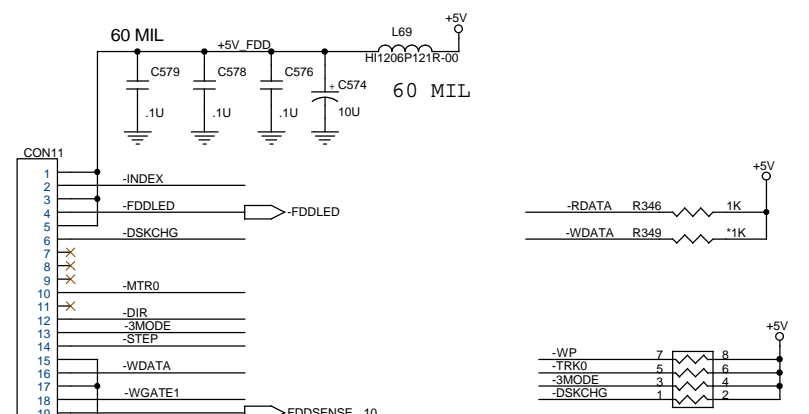
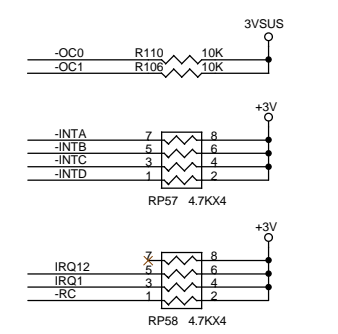
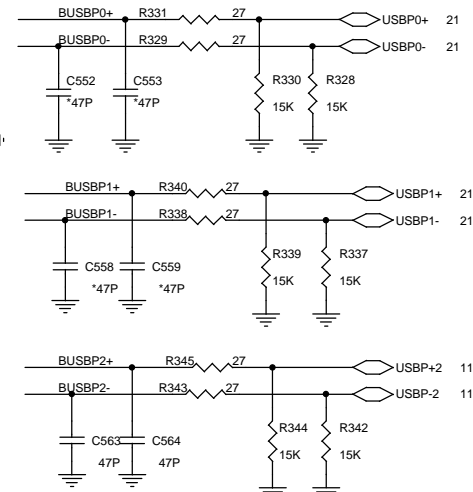
-MCCS(High):Disable AMD CPU Frequency Strapping
 SA17(High):Disable auto reboot
 SA16(High):Disable LPC
 -SUSA(High):Select Socket A



For EMI



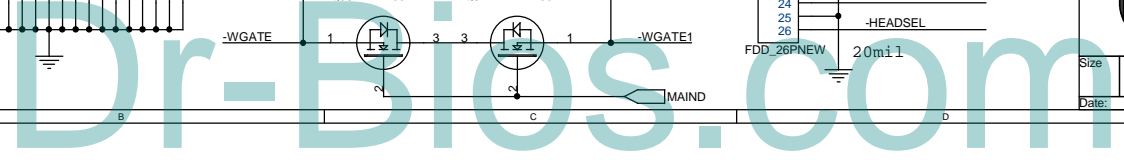
RevB_0411:
 Change to ET2
 solution

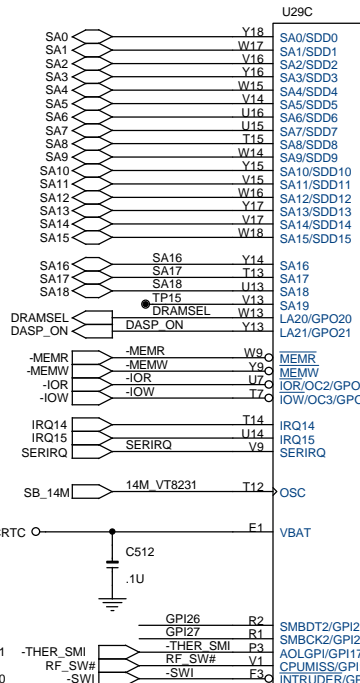
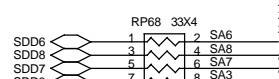
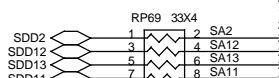
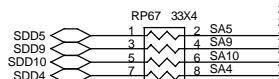
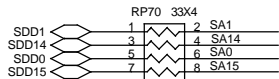


PROJECT : ET2S
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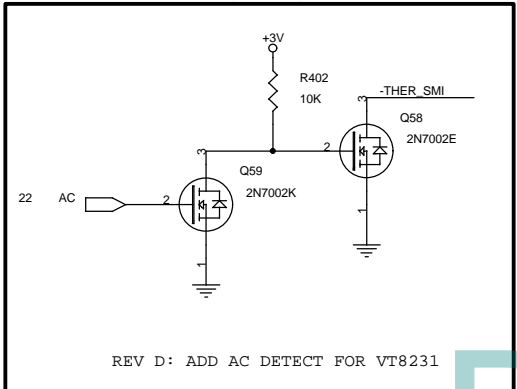
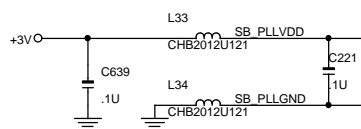
Size Document Number
VT8231 PCI&USB&IO Rev 3C

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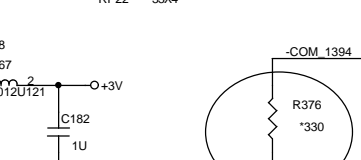
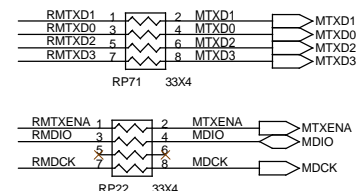
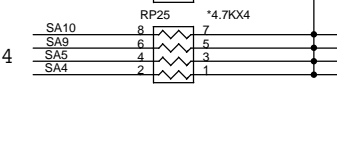
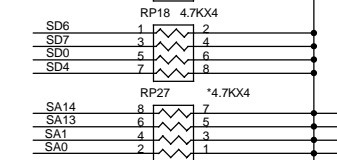
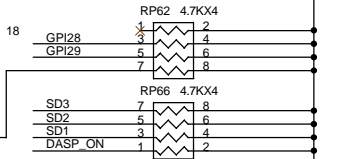
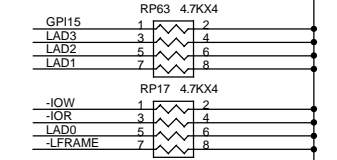
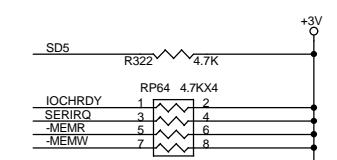
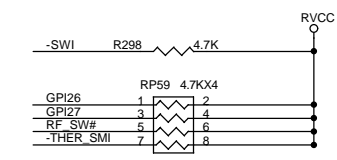
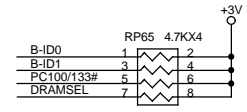
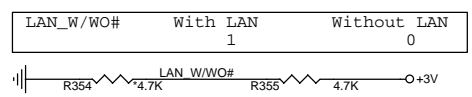
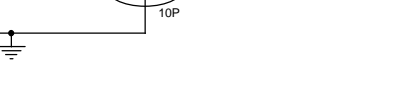
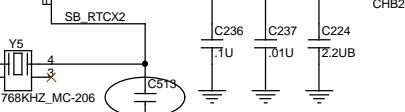
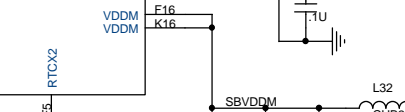
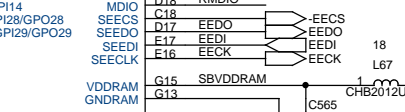
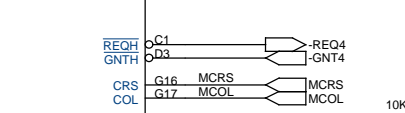
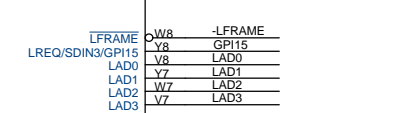
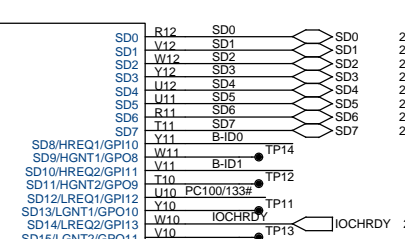




RevA_1224
Modified



REV D: ADD AC DETECT FOR VT8231



RevA_1224
Modified

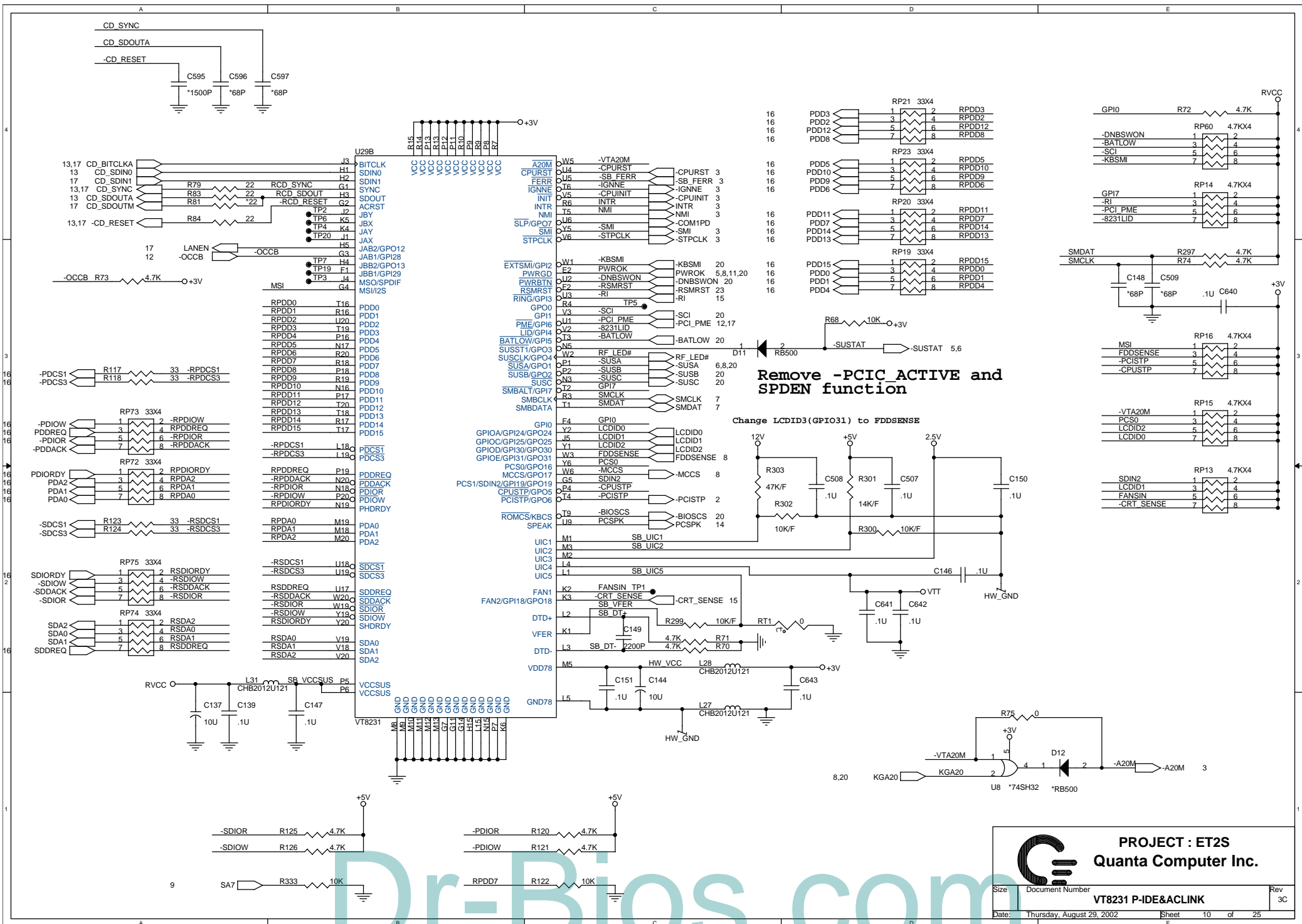
Mount: With 1394
NOT-Mount: Without 1394

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PROJECT : ET2S
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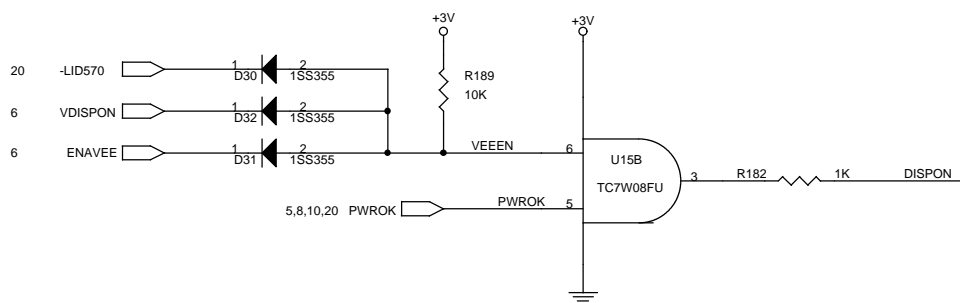
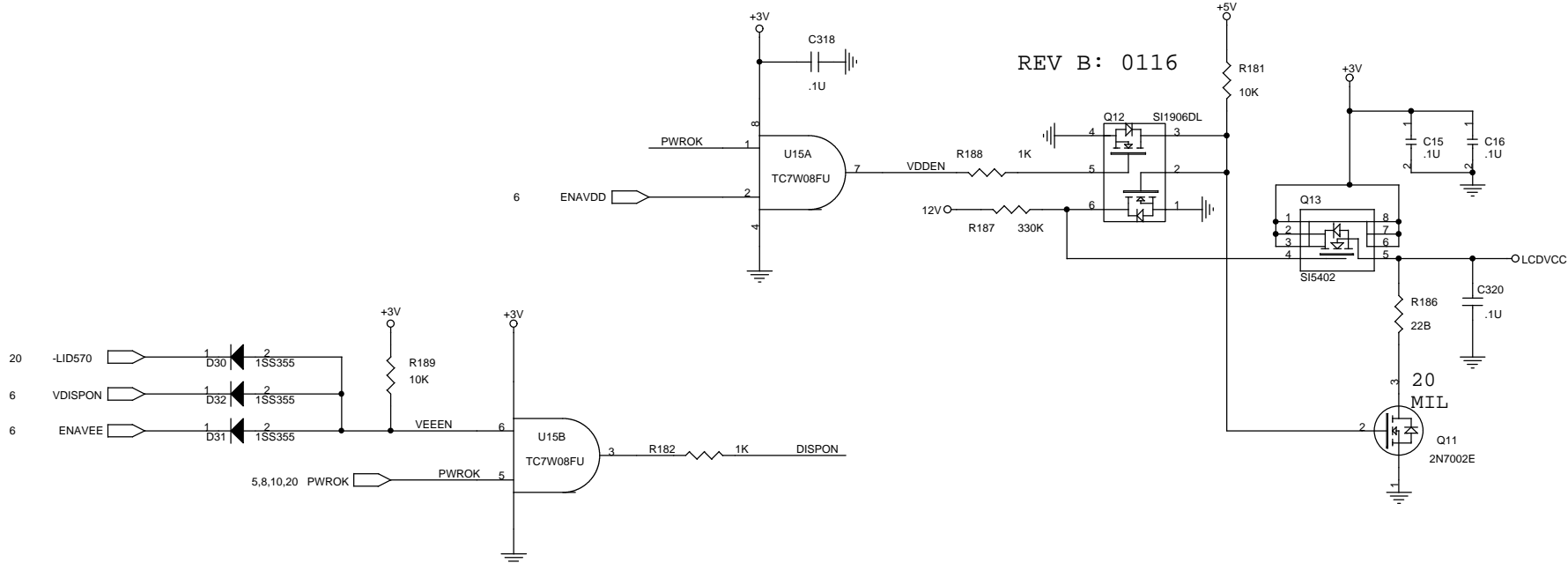
Size Document Number **VT8231 S-IDE&LAN&RTC** Rev 3C

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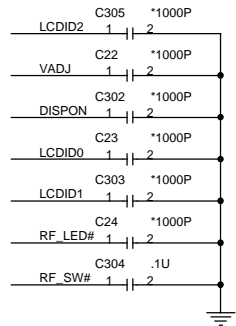
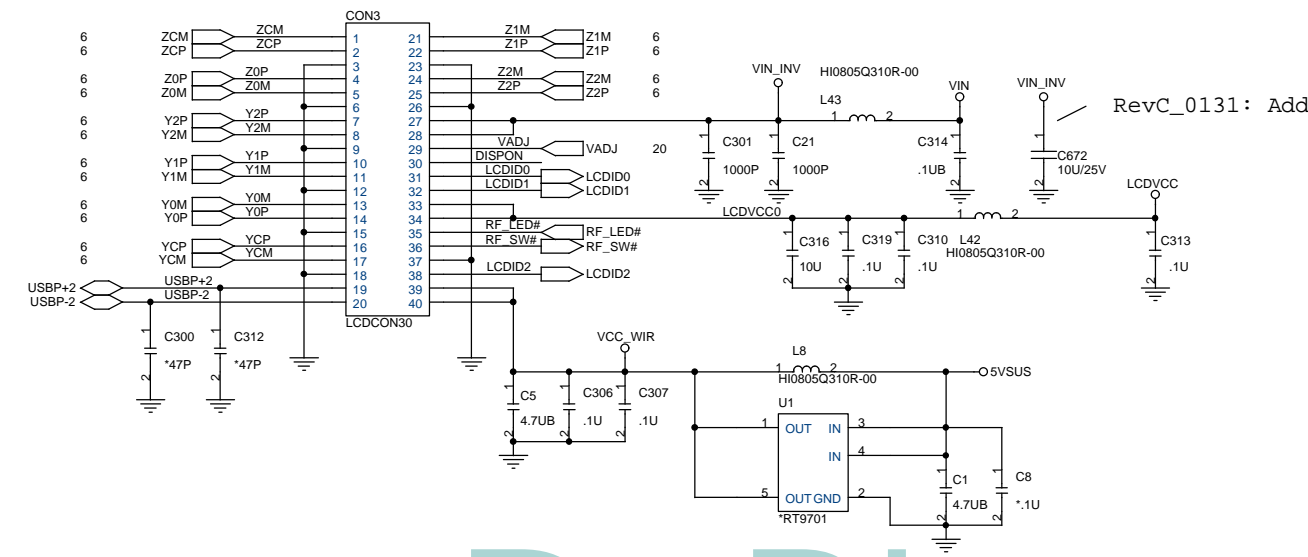
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REV B: 0116



LCDID0	LCDID1	LCDID2	QDI-141X1LH03
1	1	1	
1	0	1	SAM-LTN141X8

Reserve Dual Channels LVDS

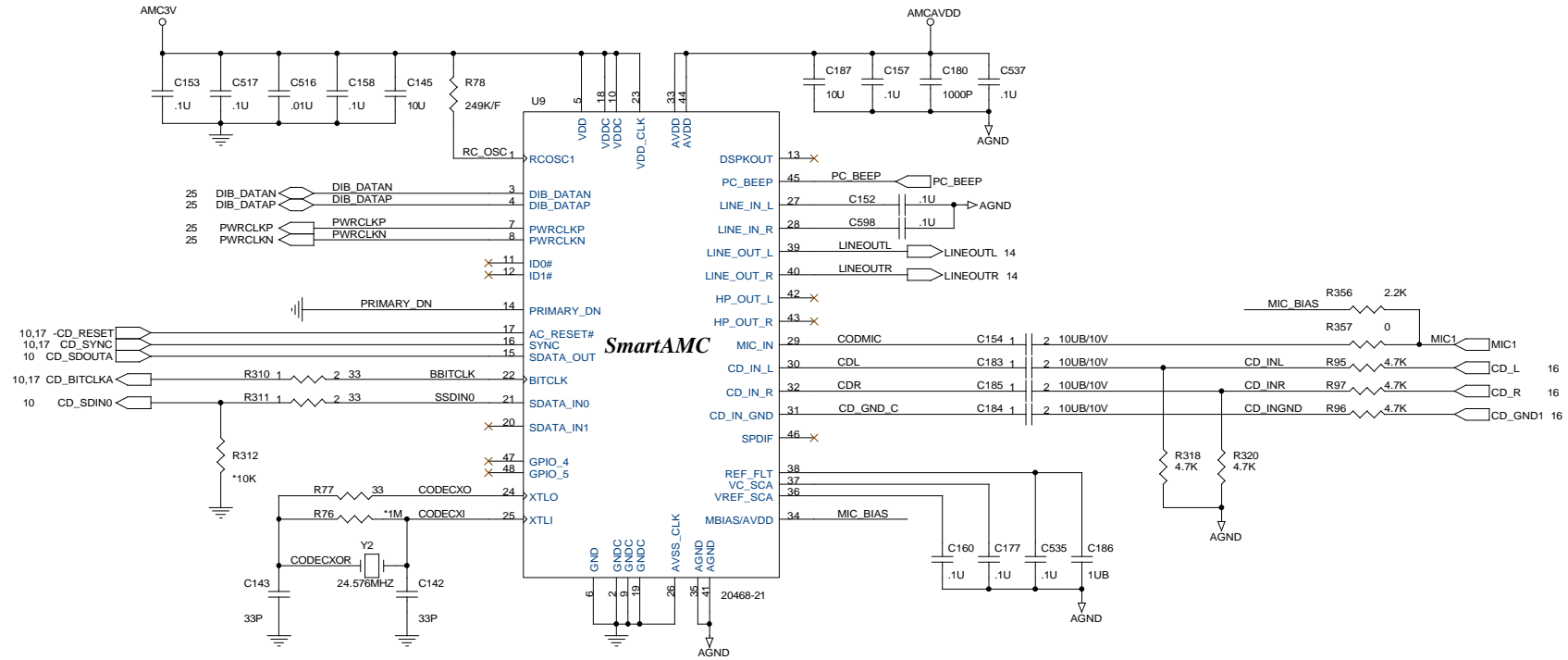


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		3C
LCD Interface		
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The AMC20463-002 modem is used for mother board family MBAMC20463-002.

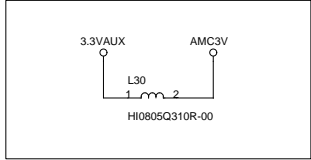


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PROJECT : ET2S
Quanta Computer Inc.

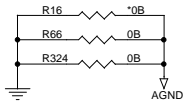
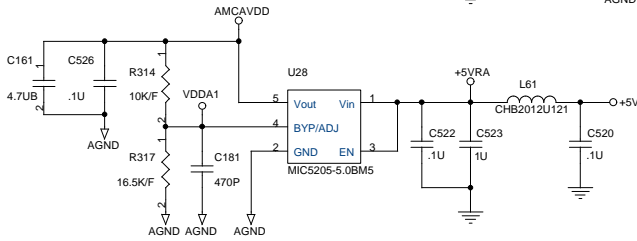
Size Custom	Document Number AC97 CODEC	Rev 3C
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GAIN0	GAIN1	SE/BTL#	Av	Zi
0	0	0	-2 V/V	91K Ohm
0	1	0	-6 V/V	45.5K Ohm
1	0	0	-12 V/V	26K Ohm
1	1	0	-24 V/V	14K Ohm
X	X	1	-1 V/V	

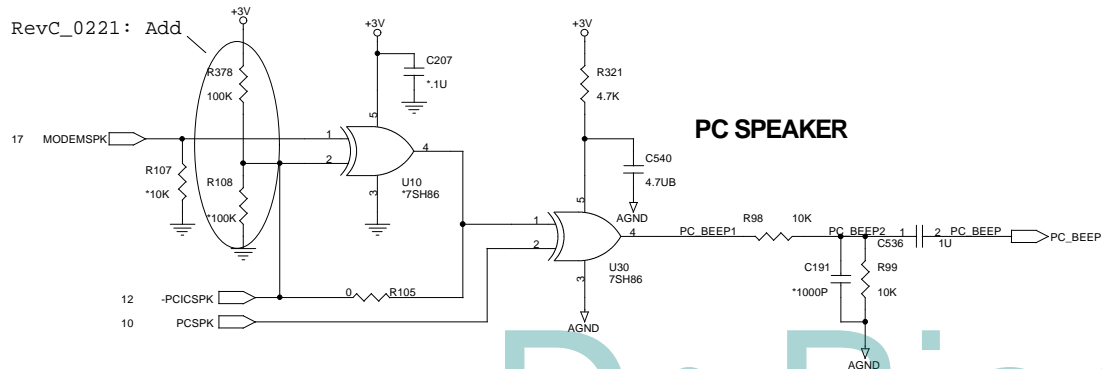


$V_{set} = 1.242V$; $AMCAVDD = 1.242 \times (10 + 16.5) / 10 = 3.29V$

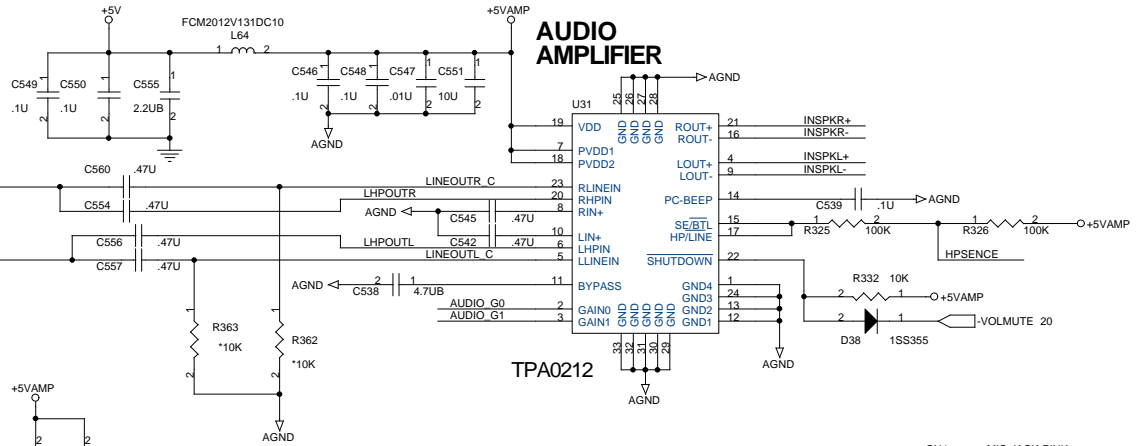
AMCVDD should be 3.3V



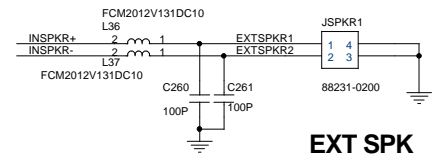
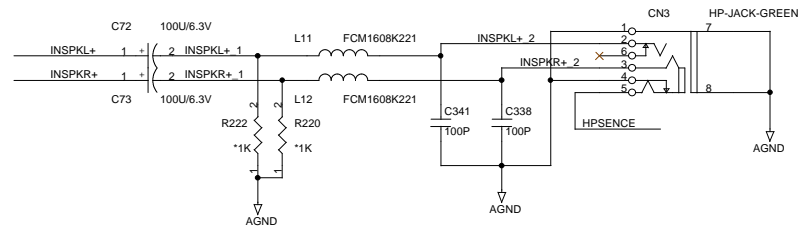
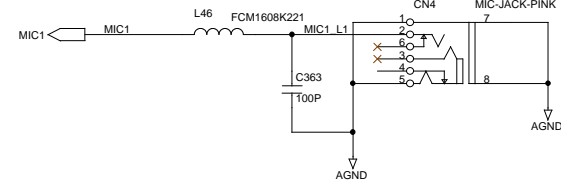
Gain = -6



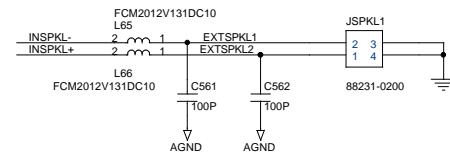
PC SPEAKER



TPA0212



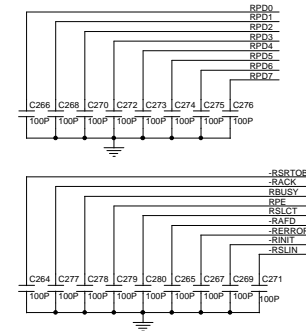
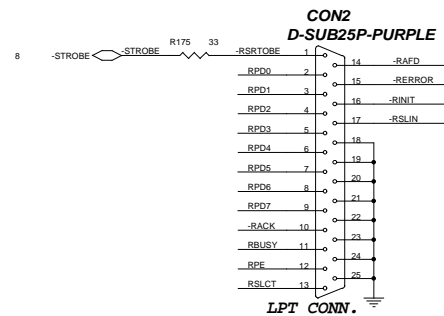
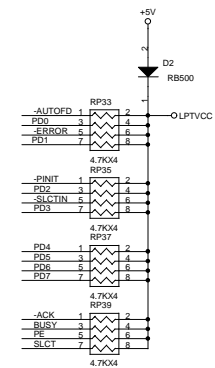
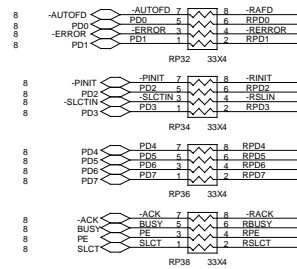
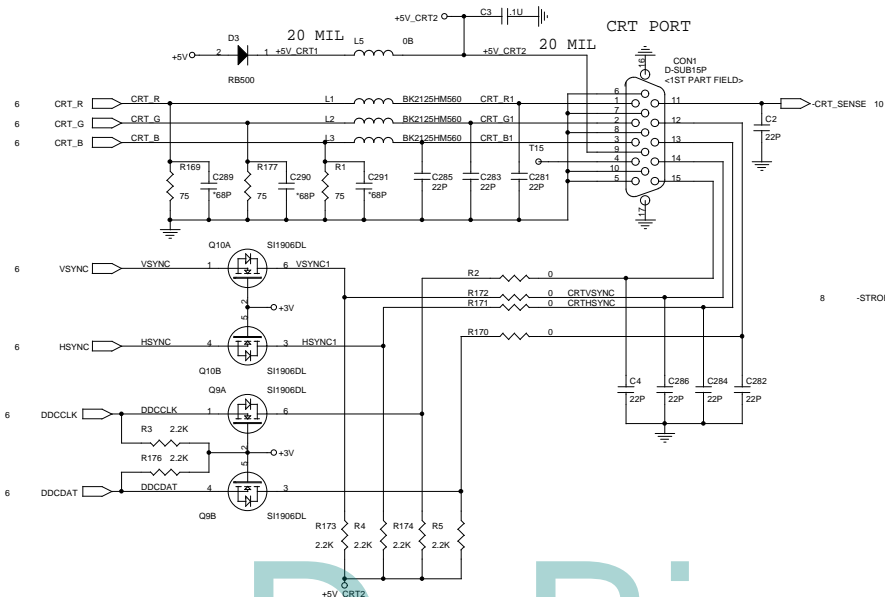
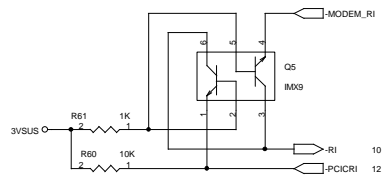
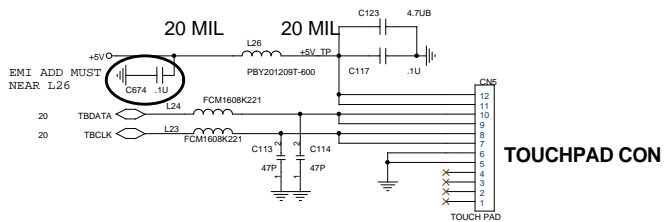
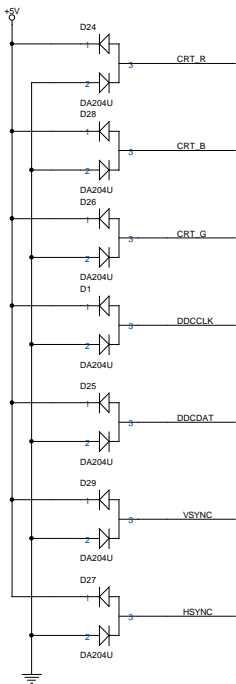
EXT SPK



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Quanta Computer Inc.

Size: Custom | Document Number: TPA0212&Audio Jack | Rev: 3C
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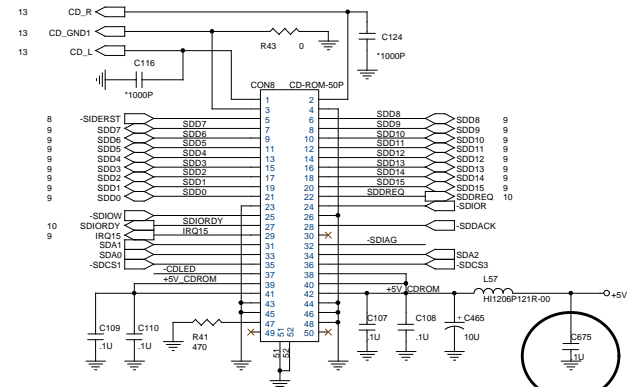


REMOVE COM PORT

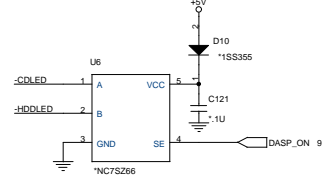
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 Quanta Computer Inc.

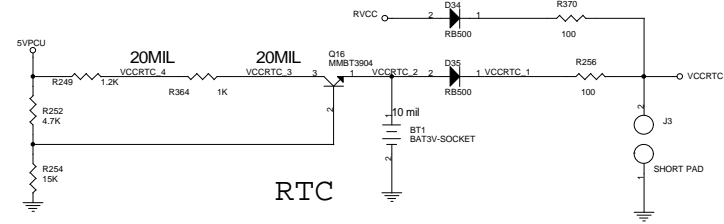
Size: Document Number CRT,TP,LPT,Serial Rev: 3C
 Date: Thursday, August 23, 2002 ESheet 15 of 25



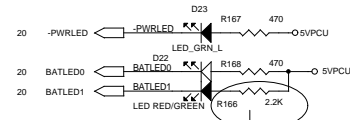
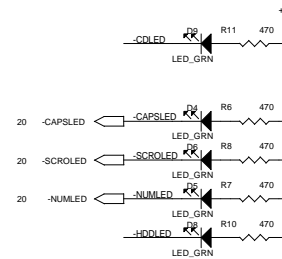
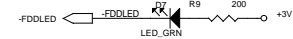
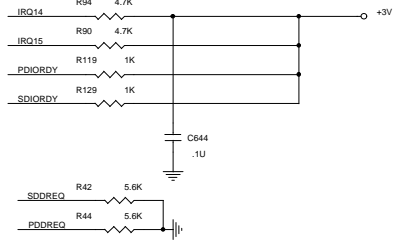
CD-ROM CONNECTOR



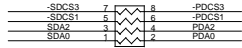
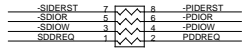
EMI SOLUTION



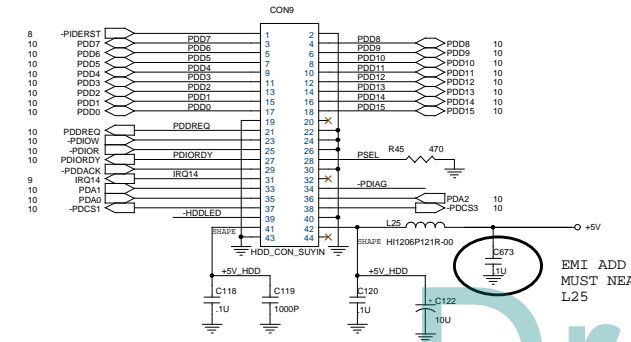
RTC



RevC_0209



IDE BUS	ONE CHANNEL	TWO CHANNEL
ADD	RP100, RP101, RP102, RP103, RP104, RP105, RP106, R663	RP73, RP74, RP75, RP76, R509, R510, R511, R513, R514, R515, R516, R518, R520, R522, R442, R470
DEL	RP73, RP74, RP75, RP76, R509, R510, R511, R513, R514, R515, R516, R518, R520, R522, R442, R470	RP100, RP101, RP102, RP103, RP104, RP105, RP106, R663



HDD connector

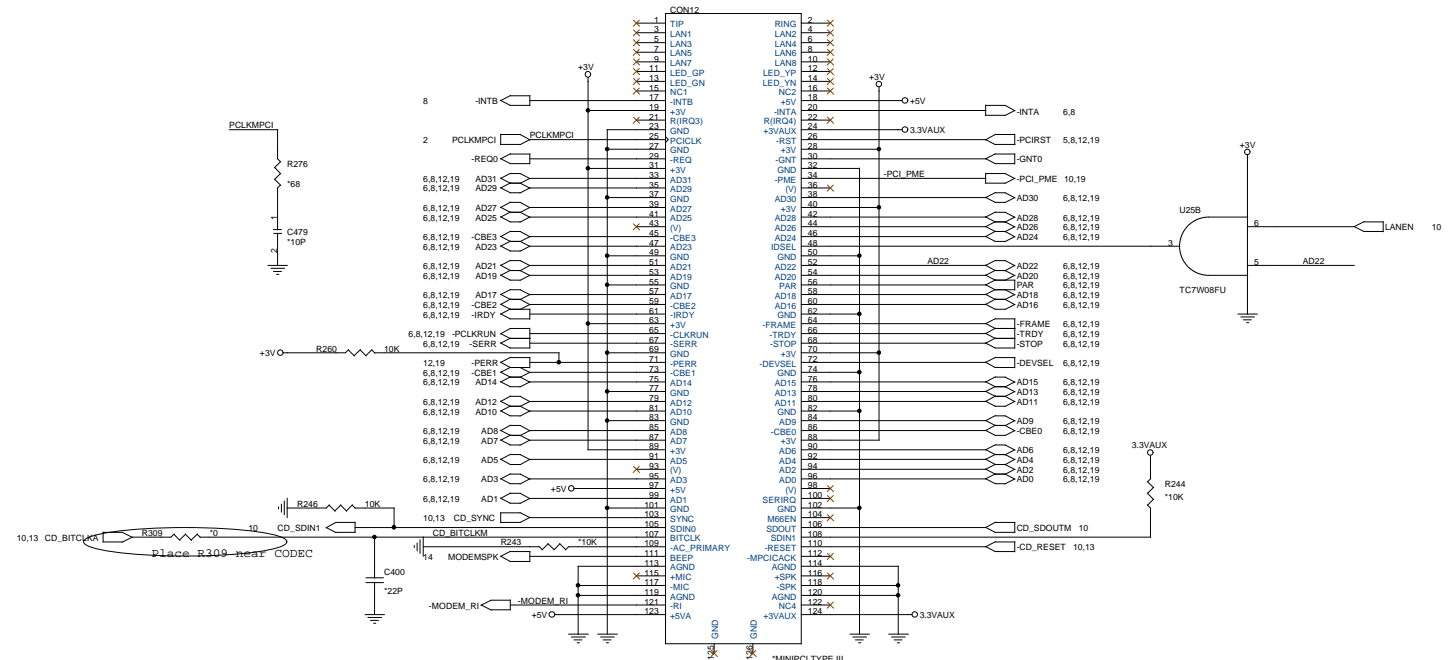
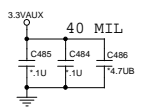
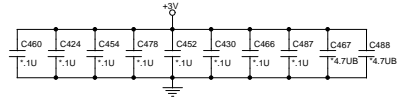
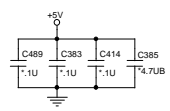
EMI ADD MUST NEAR L25



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Quanta Computer Inc.

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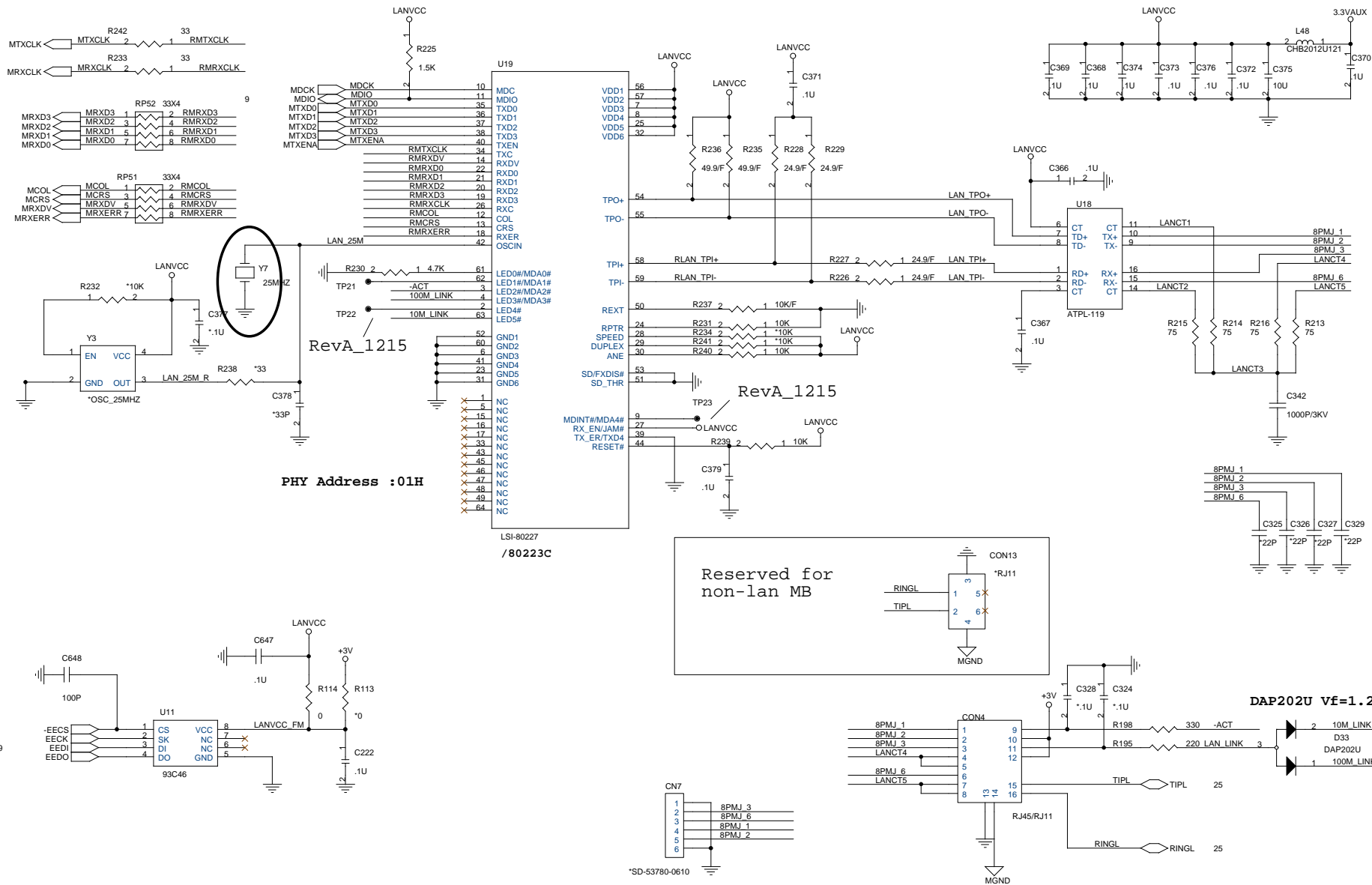


MINI-PCI TYPE III
MINI-PCI Aclink is DATA_IN1

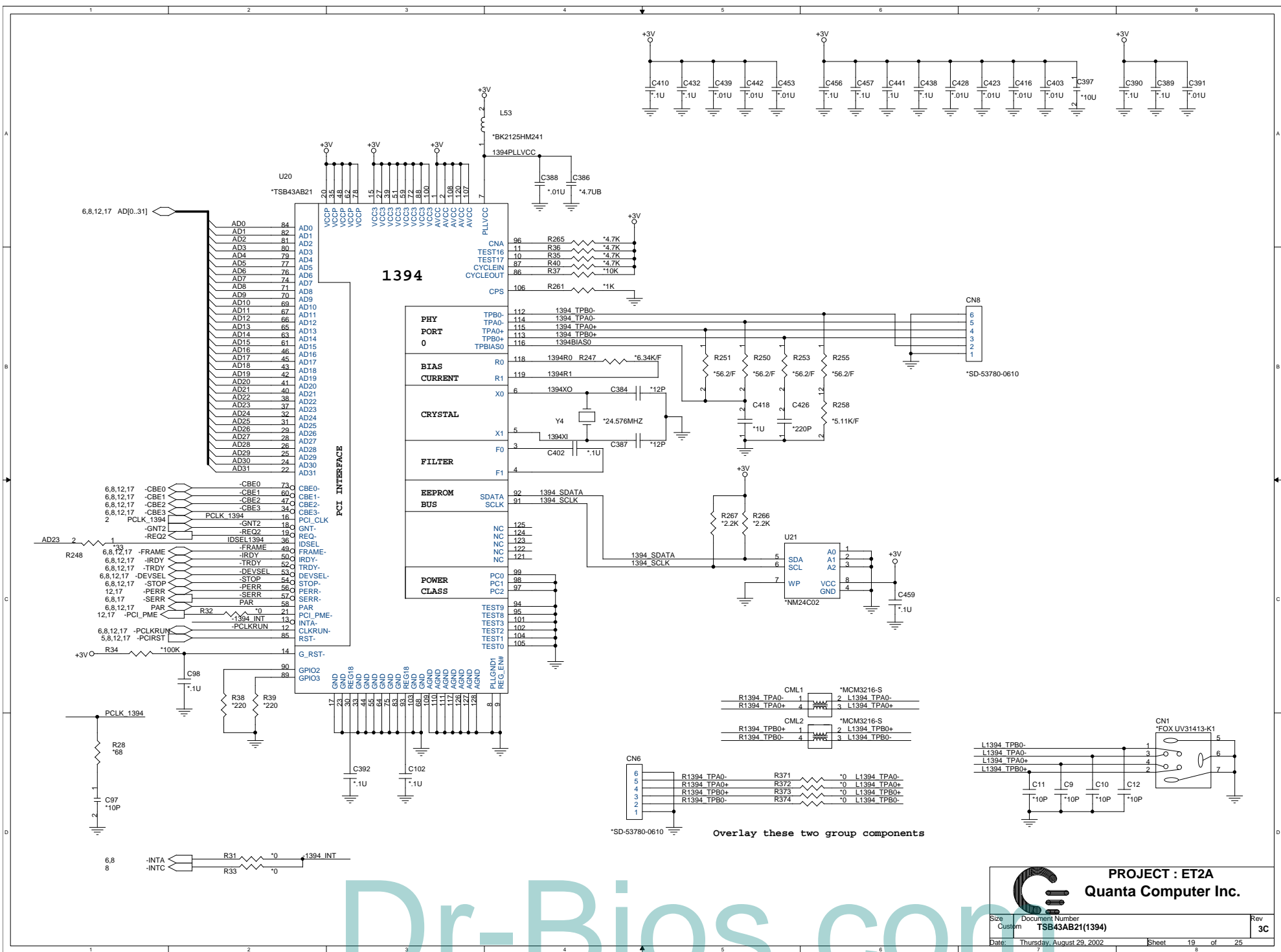
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PROJECT : ET2S
Quanta Computer Inc.

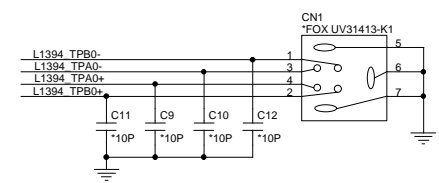
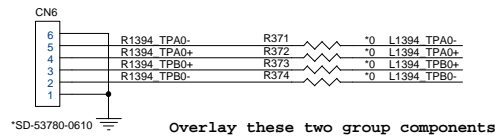
Size	Document Number	MINI-PCI	Rev
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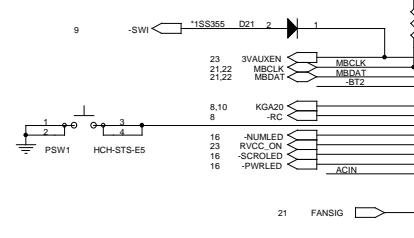
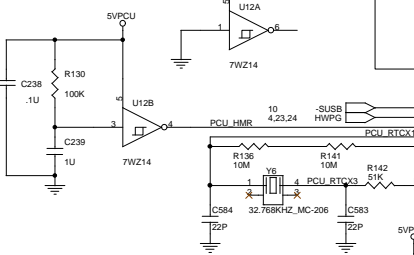
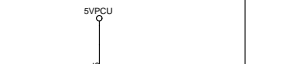
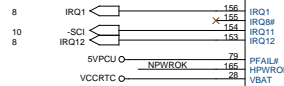
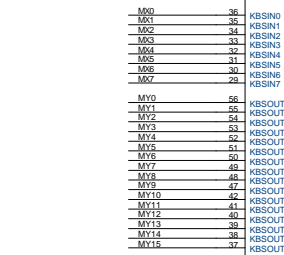
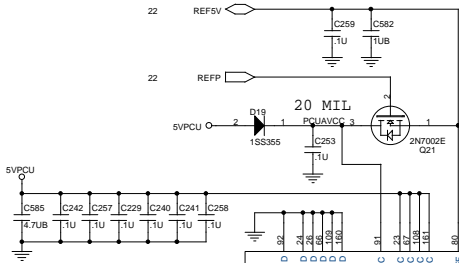
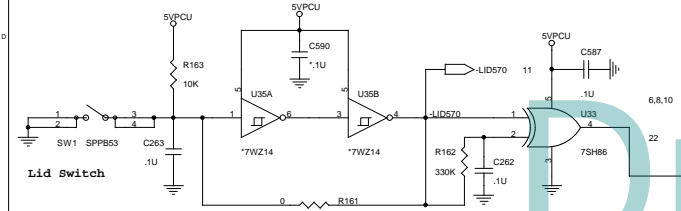
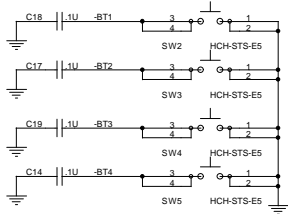
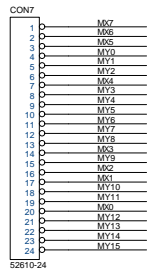
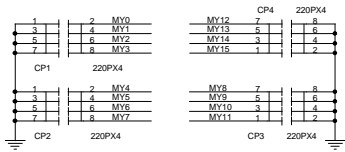
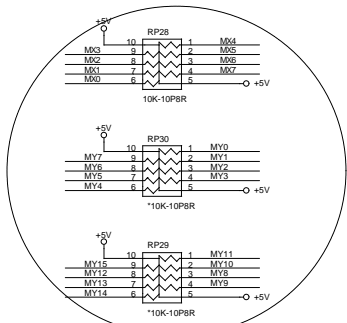
CML1		*MCM3216-S	
R1394	TPA0-	1	2 L1394 TPA0-
R1394	TPA0+	4	3 L1394 TPA0+
CML2		*MCM3216-S	
R1394	TPB0+	1	2 L1394 TPB0+
R1394	TPB0-	4	3 L1394 TPB0-



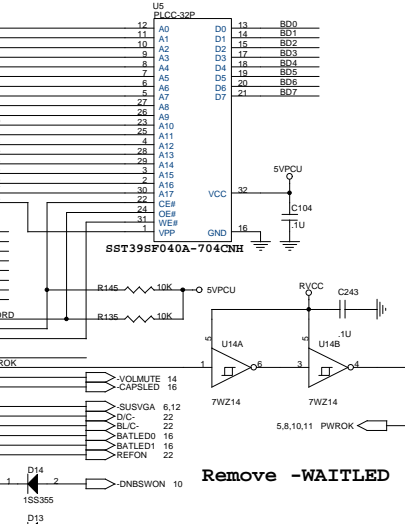
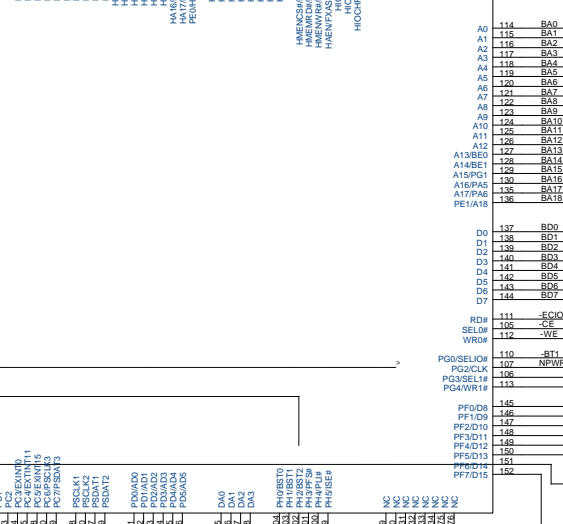
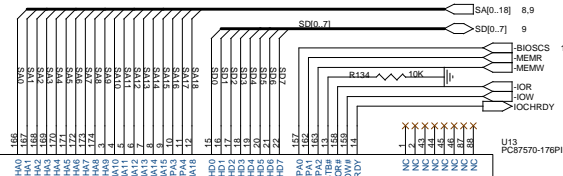
Overlay these two group components

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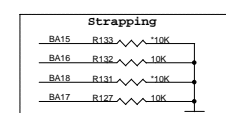
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- 1) -NBSWON
- 2) ACTIR
- 3) -SUSV



Remove -WAITED

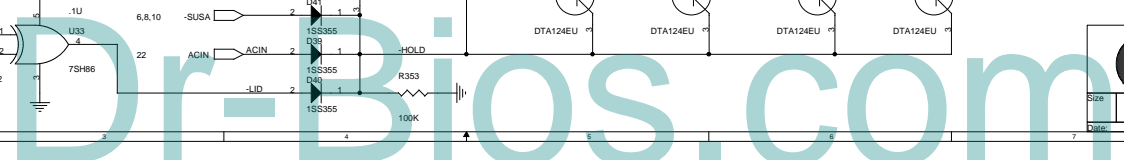


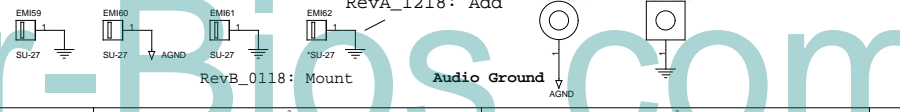
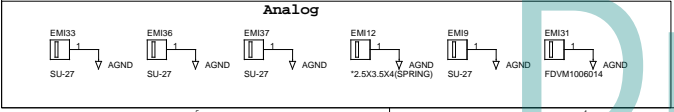
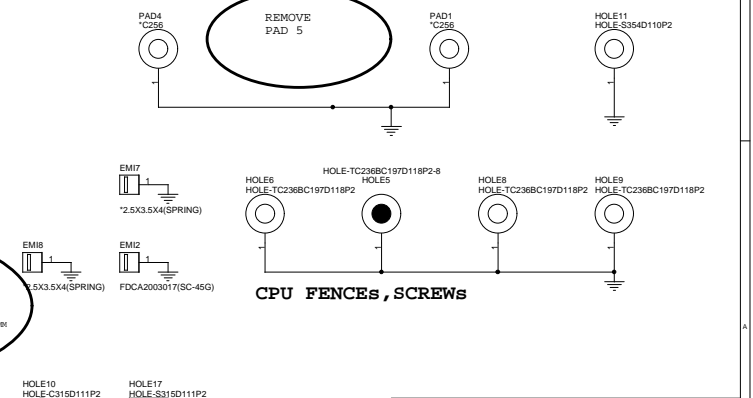
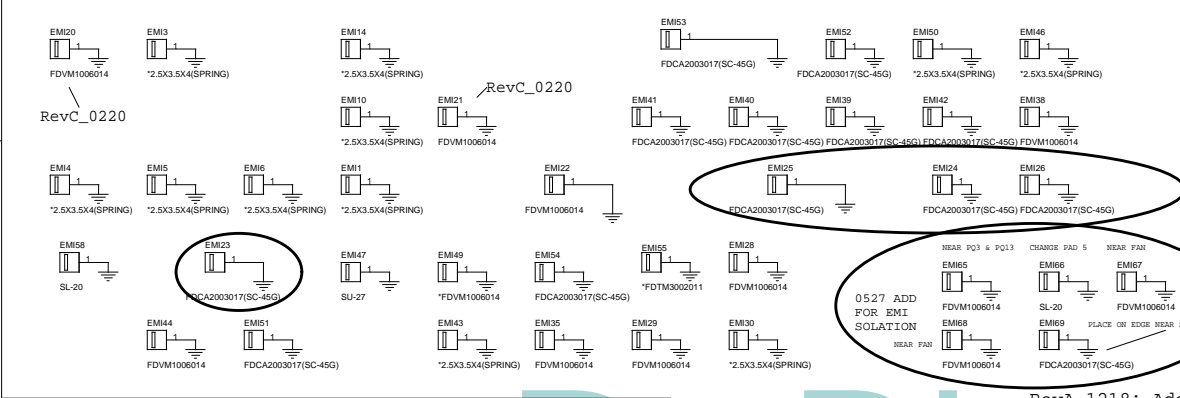
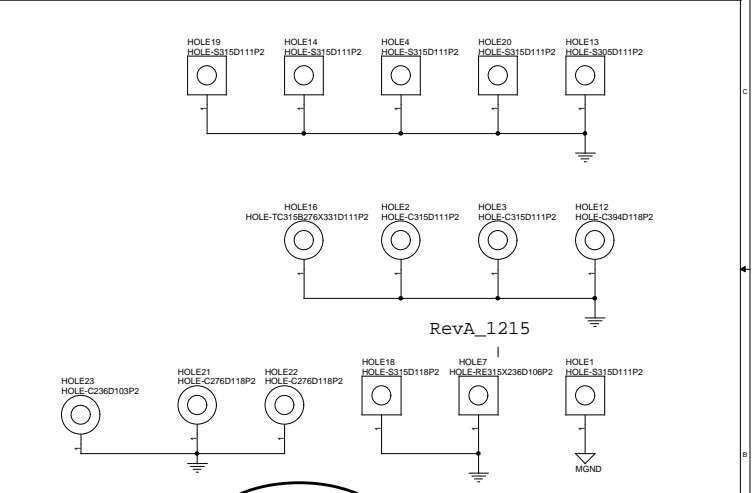
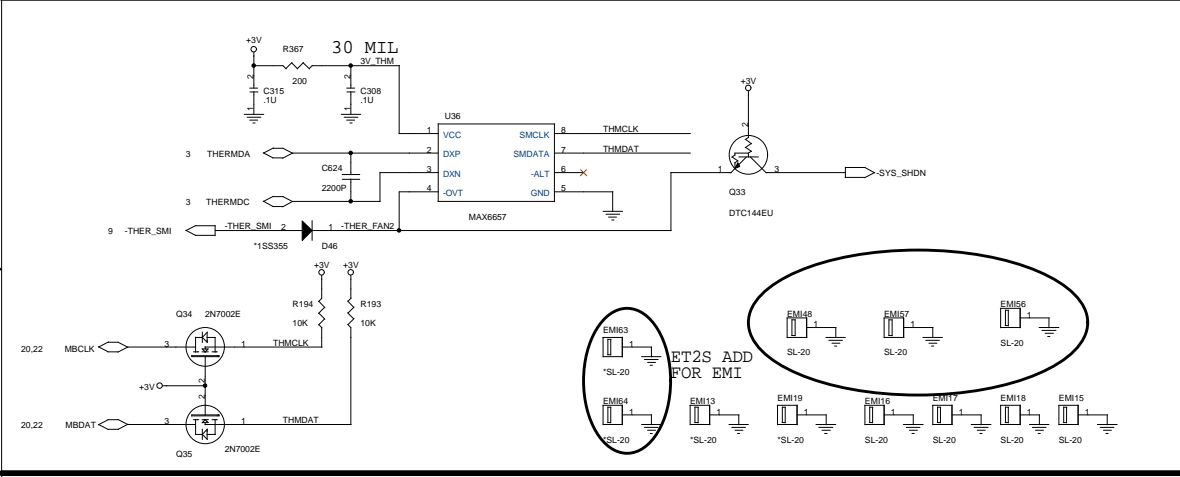
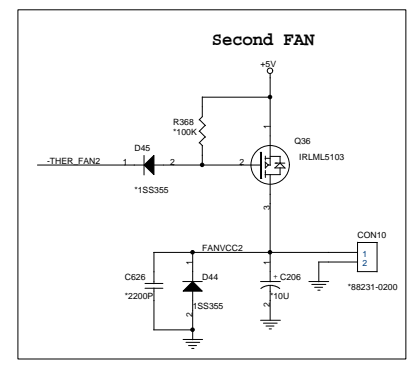
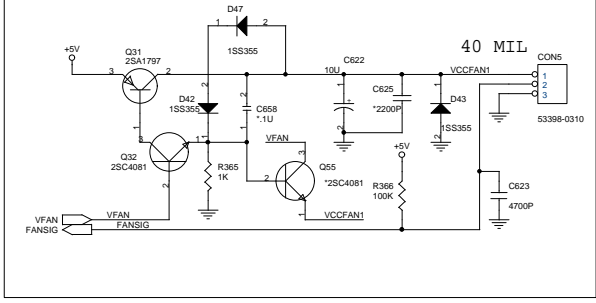
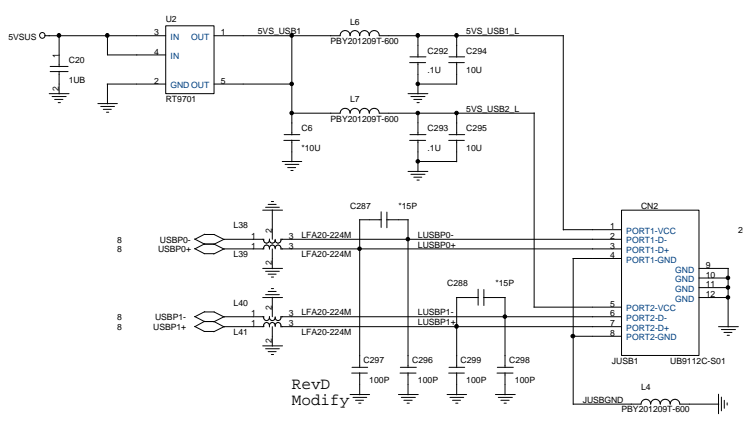
Need to confirm the address

PROJECT : ET2S
Quanta Computer Inc.

Size: _____ Document Number: **PCU NS87570** Rev: **3C**

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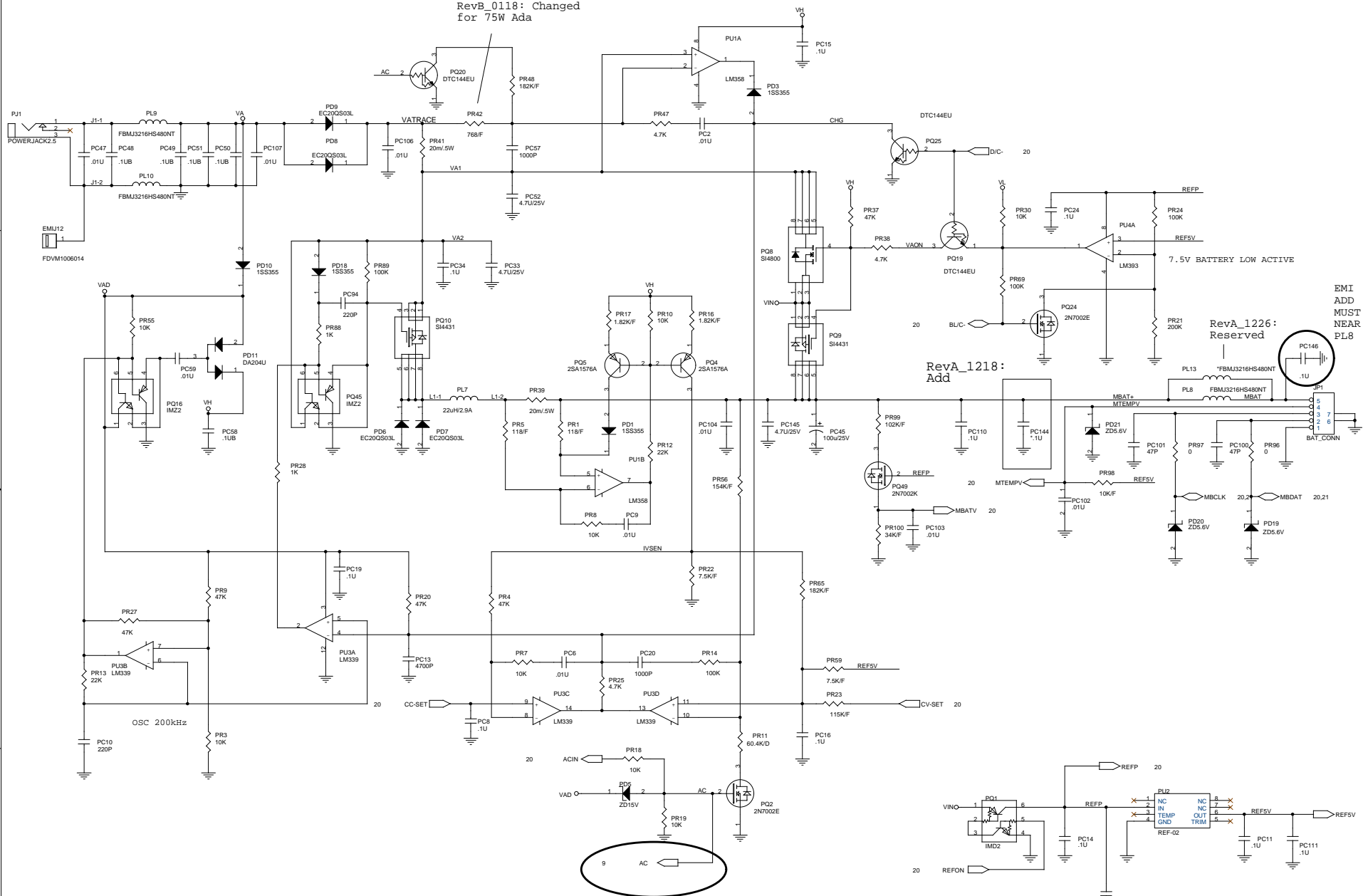




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Quanta Computer Inc.

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RevB_0118: Changed for 75W Ada



REV D: connect to 8231 for AC detect

RevA_1226: Reserved

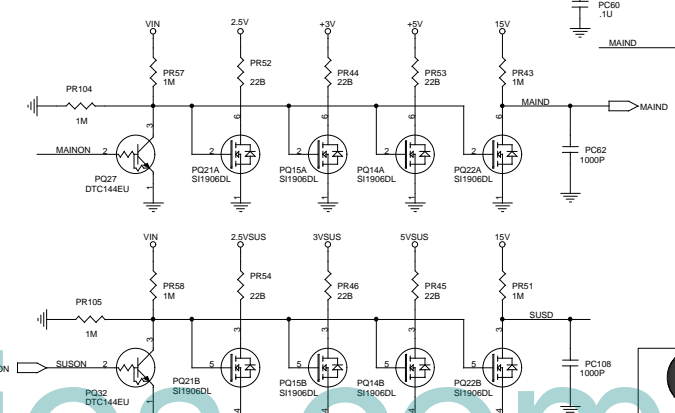
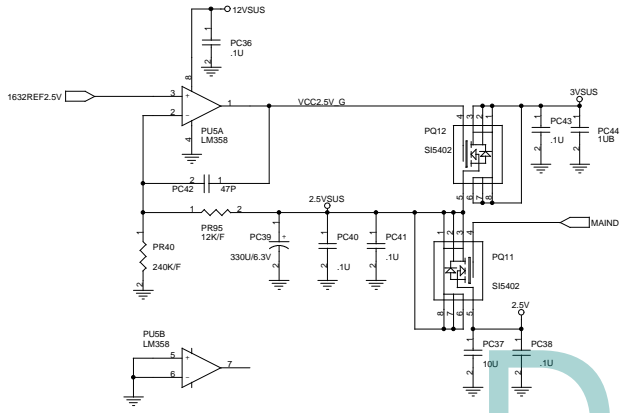
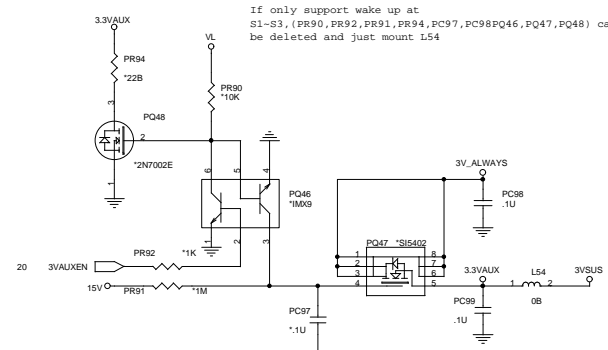
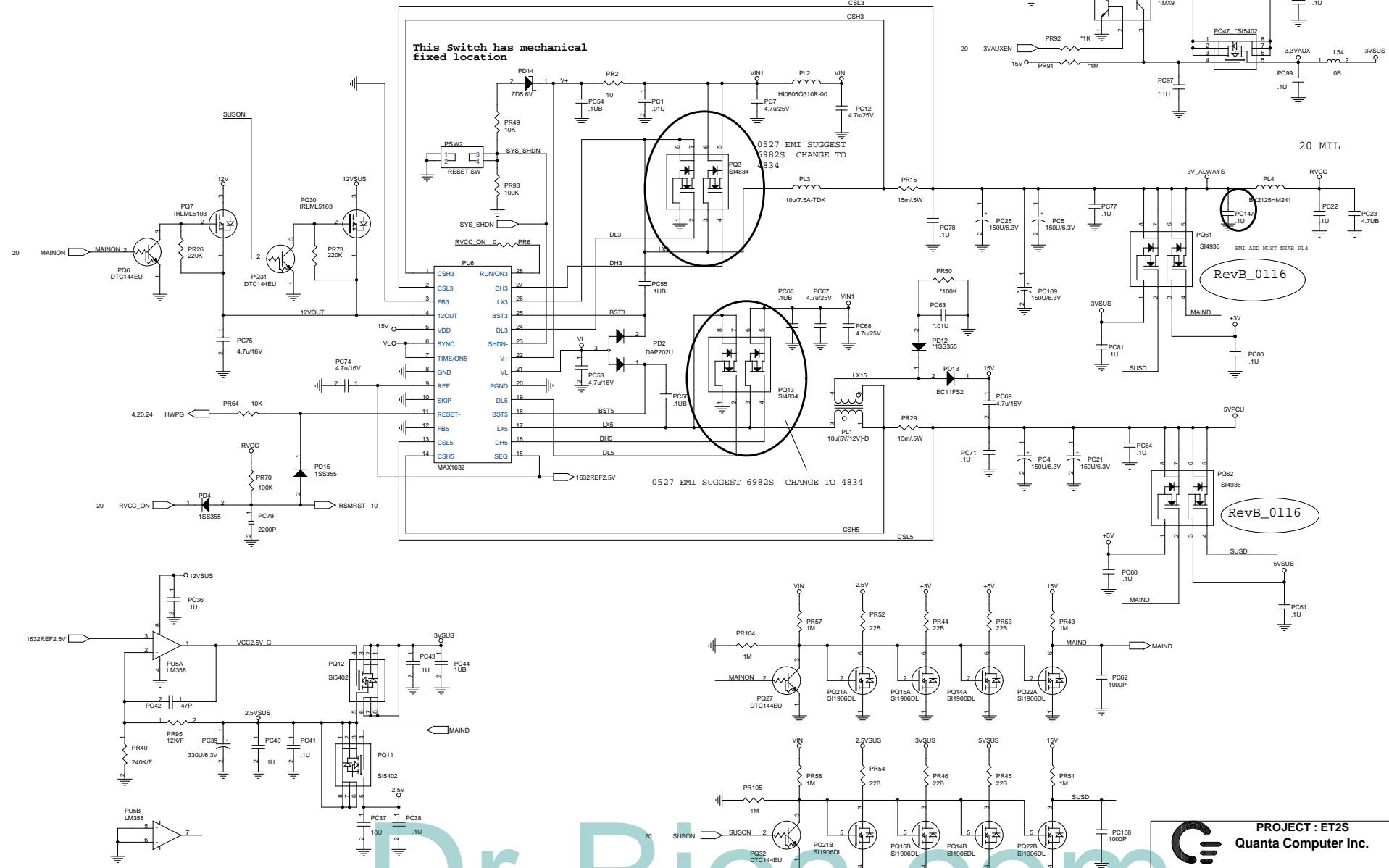
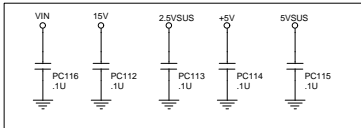
RevA_1218: Add

EMI ADD MUST NEAR PL8

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Quanta Computer Inc.

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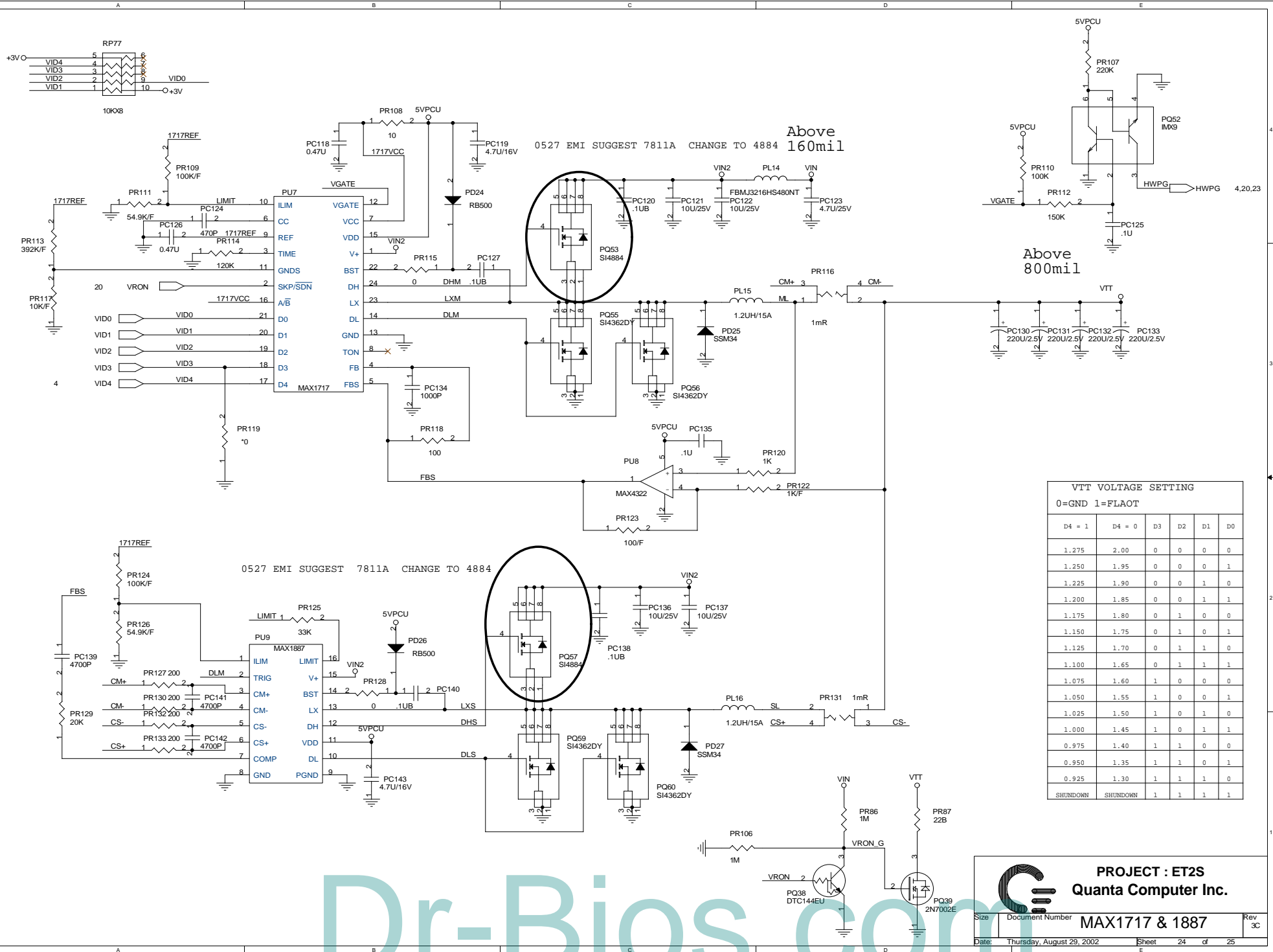
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Quanta Computer Inc.

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0527 EMI SUGGEST 7811A CHANGE TO 4884
Above 160mil

Above 800mil

VIT VOLTAGE SETTING
0=GND 1=FLAOT

D4 = 1	D4 = 0	D3	D2	D1	D0
1.275	2.00	0	0	0	0
1.250	1.95	0	0	0	1
1.225	1.90	0	0	1	0
1.200	1.85	0	0	1	1
1.175	1.80	0	1	0	0
1.150	1.75	0	1	0	1
1.125	1.70	0	1	1	0
1.100	1.65	0	1	1	1
1.075	1.60	1	0	0	0
1.050	1.55	1	0	0	1
1.025	1.50	1	0	1	0
1.000	1.45	1	0	1	1
0.975	1.40	1	1	0	0
0.950	1.35	1	1	0	1
0.925	1.30	1	1	1	0
SHUTDOWN	SHUTDOWN	1	1	1	1

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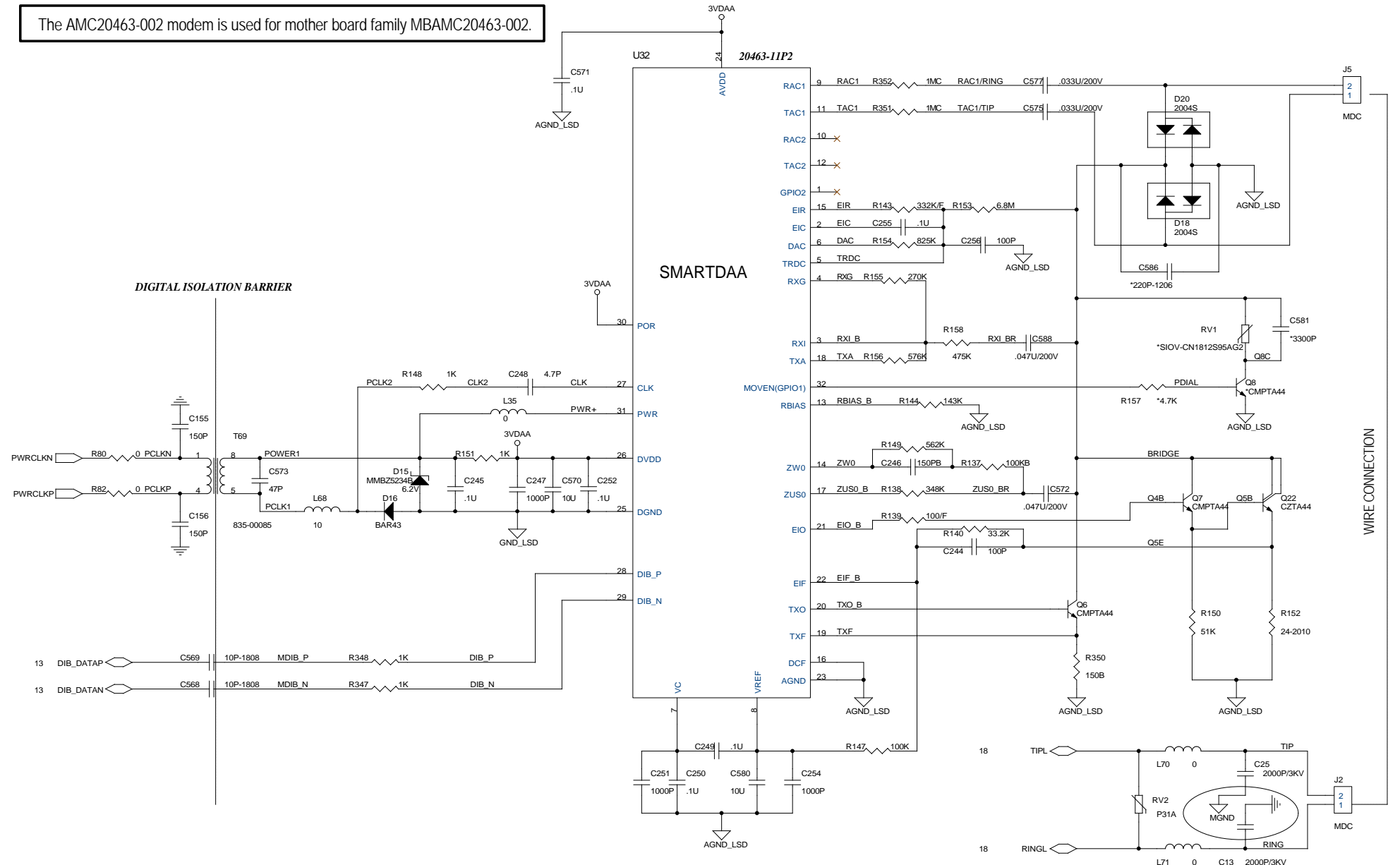
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Quanta Computer Inc.

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The AMC20463-002 modem is used for mother board family MBAMC20463-002.

DIGITAL ISOLATION BARRIER



GND_LSD AGND_LSD
With 12 mil to connect both GND

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