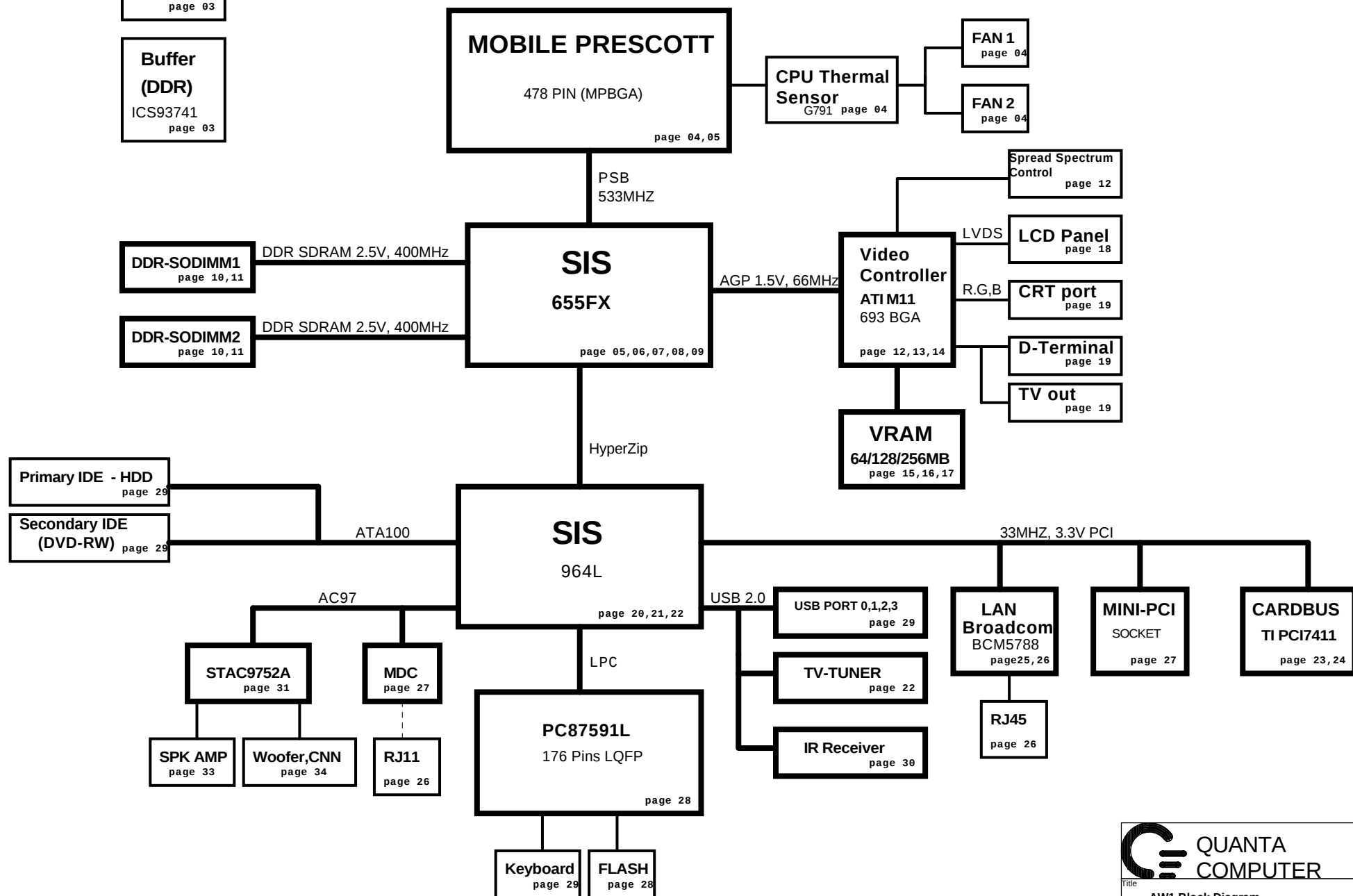


AW1 BLOCK DIAGRAM

Mobile Prescott & SIS655FX



AW1 Schematic Page Description :

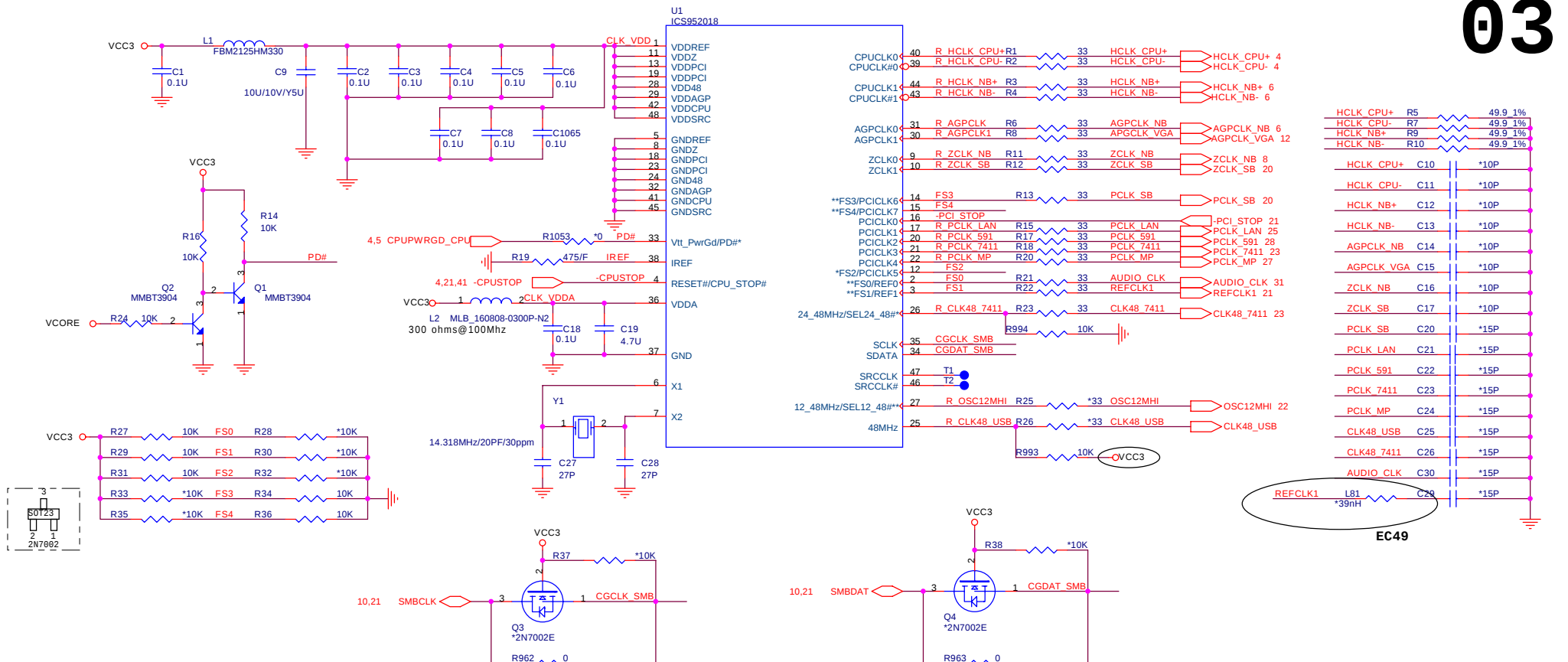
02

01--BLOCK DIAGRAM
02--Schematic Sheet Number
03--CLOCK GENERATOR
04--Mobile Prescott CPU-1
05--Mobile Prescott CPU-2
06--NB(655FX HOST & AGP)
07--NB(655FX UMCA&B)
08--NB(655FX LINK)
09--NB(655FX POWER)
10--SYSTEM DIMM1&2
11--DDR_TERMINASION
12--VGA(M11-P AGP INTERFACE)
13--VGA(M11-P MEM A&B)
14--VGA(M11-P PWR&GROUN)
15--VGA(VIDEO MEM A)
16--VGA(VIDEO MEM B)
17--VGA(TERMINATION & VGA ROM)
18--PANEL I/F,LED
19--CRT&S-VIDEO
20--964L-1 PCI/IDE/Link.SCH
21--964L-2 LPC/MII/CPU/GPIO.SCH
22--964L-3 USB/SATA.SCH
23--PCI7411 PCMCIA CONTROLLER
24--PCMCIA CNN & 3 IN 1
25--LAN (BCM5788-10/100/GIGA)

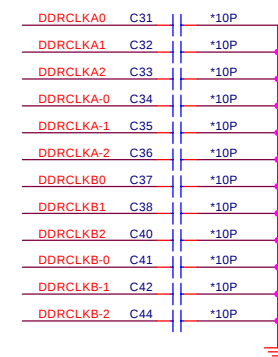
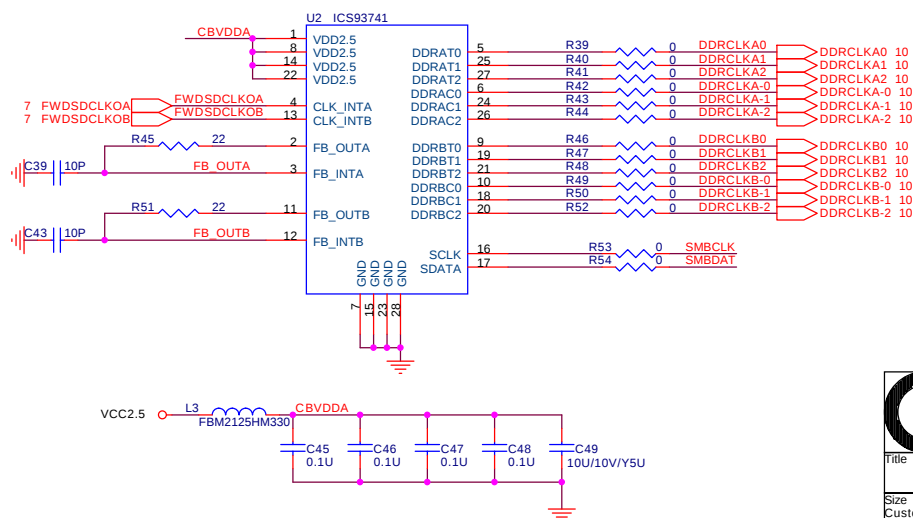
26--LAN (TR & CONNECTOR)
27--MINI-PCI/MDC
28--PCU-87591 & FLASH
29--K/B,USB,HDD,CDROM
30--RTC,BEEP,T/P,BUTTON,RECEIVE
31--AUDIO(STAC9752A,MIC CON)
32--AUDIO(AMP & POWER & HP CON)
33--AUDIO (Power AMP, SP CON)
34--AUDIO (Sub Woofer AMP)
35--1.5V/1.8V/2.5V & DDRVTT
36--VGA POWER
37--DC/DC 3V/5V
38--BATTERY CHARGER
39--BATTERY CONNECTOR
40--CPU POWER-1
41--CPU POWER-2



Title			
AW1 Block Diagram			
Size	Document Number		Rev
A3	AW1 M/B		1B
Date:	Wednesday, August 11, 2004	Sheet	2 of 42



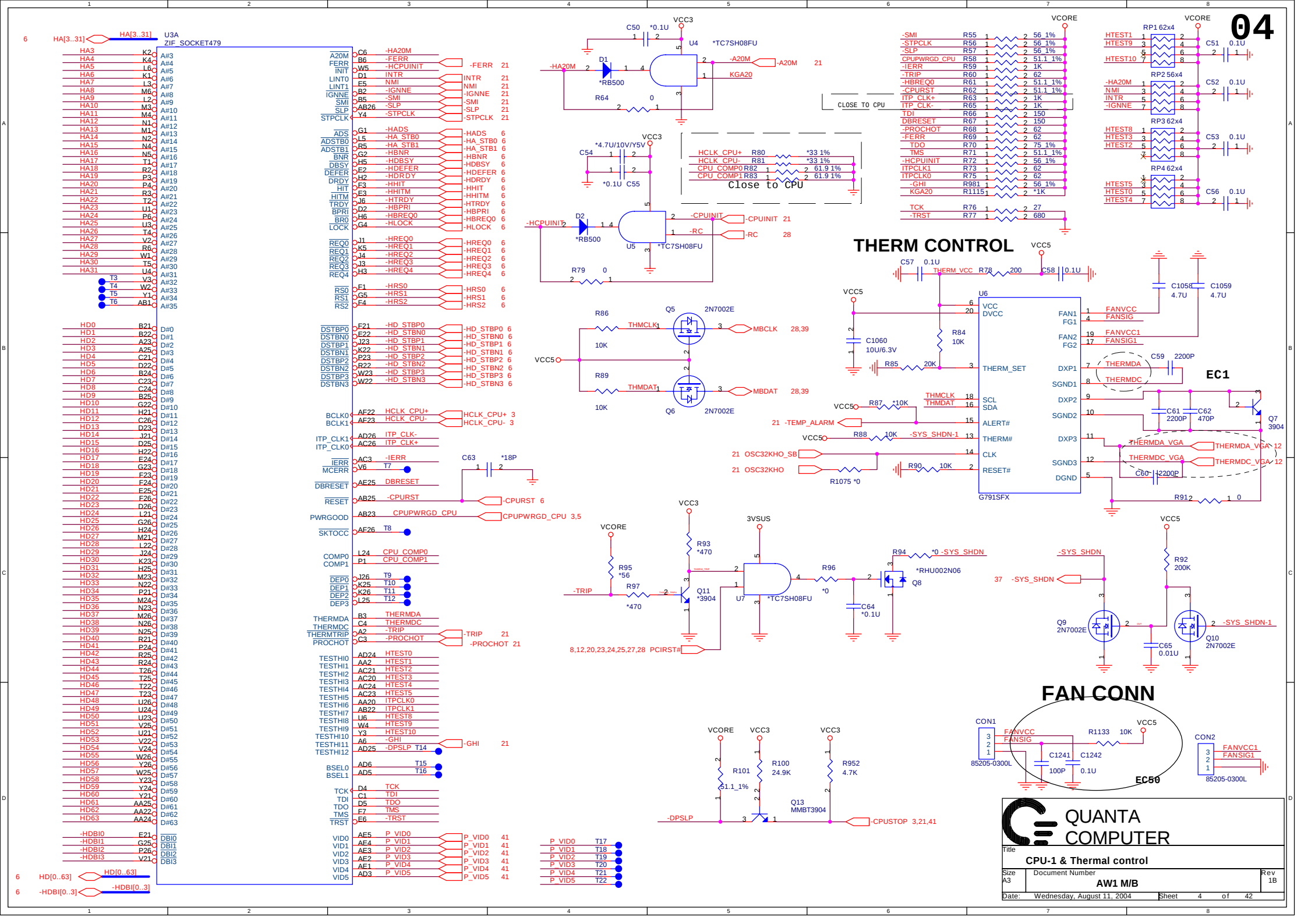
Clock Buffer (DDR)

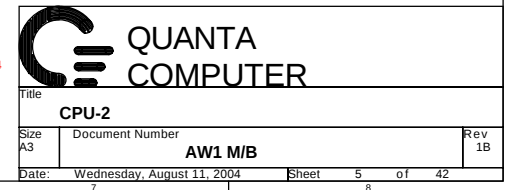


QUANTA COMPUTER

Title: **CLK GEN & DRAM Buffer**

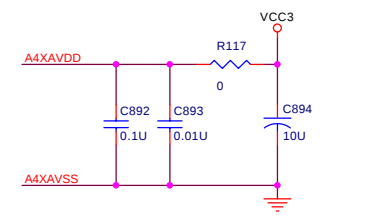
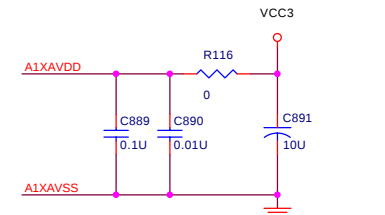
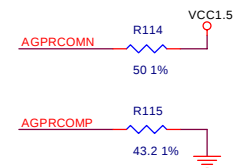
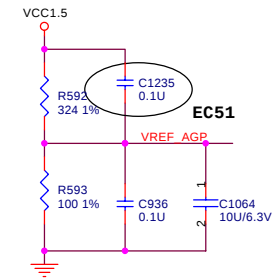
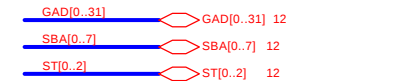
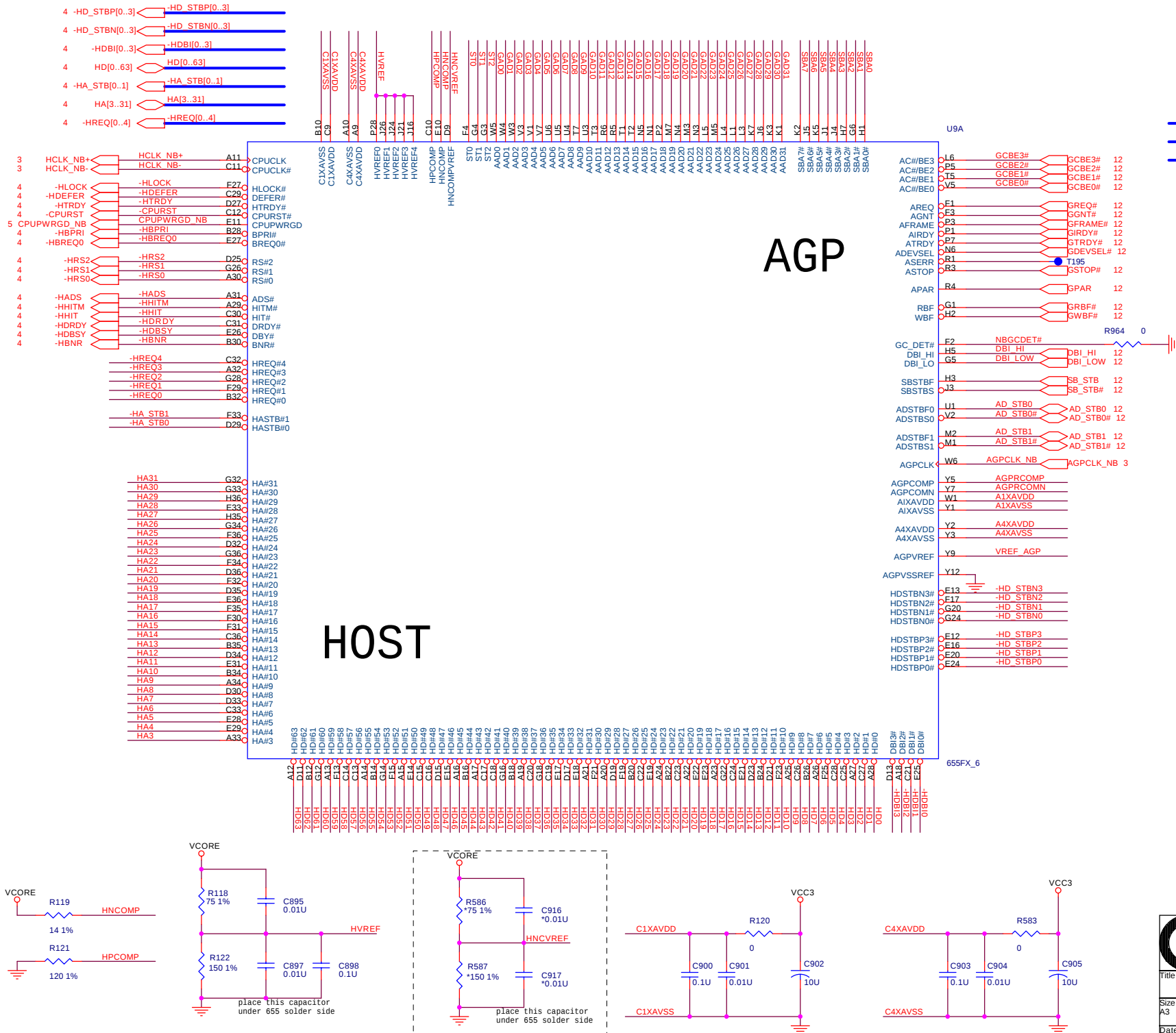
Size: Custom
 Document Number: **AW1 M/B**
 Date: Thursday, August 12, 2004
 Sheet: 3 of 42
 Rev: 1B

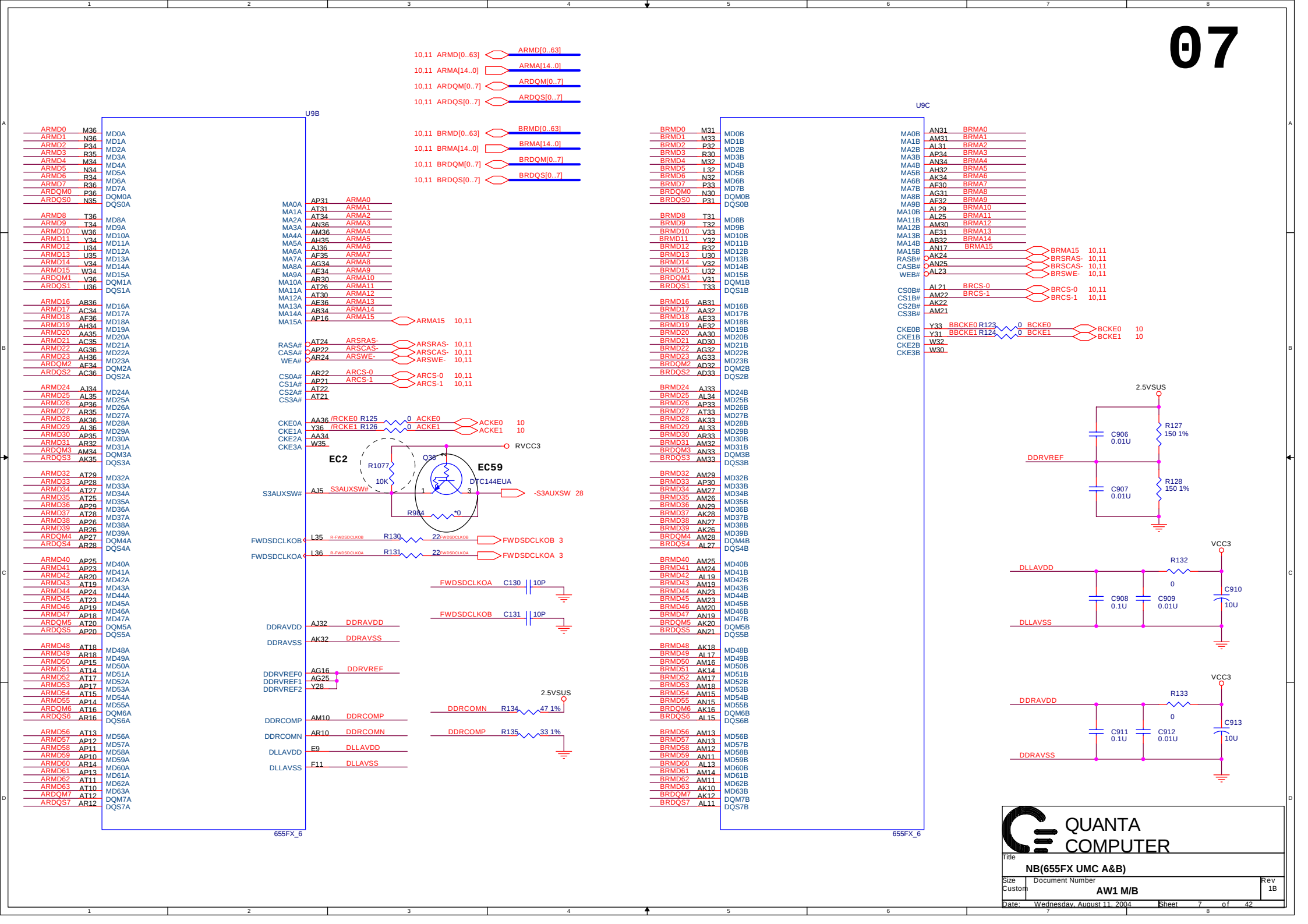


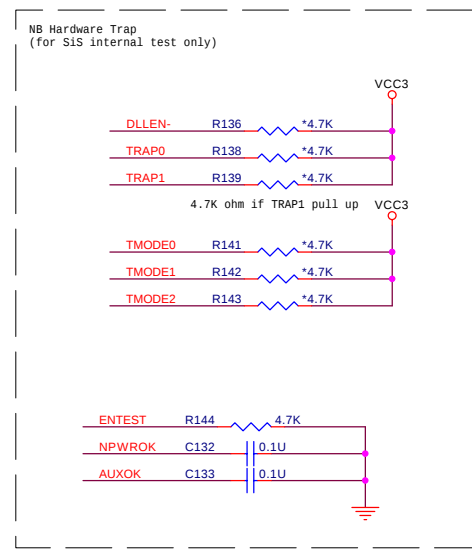
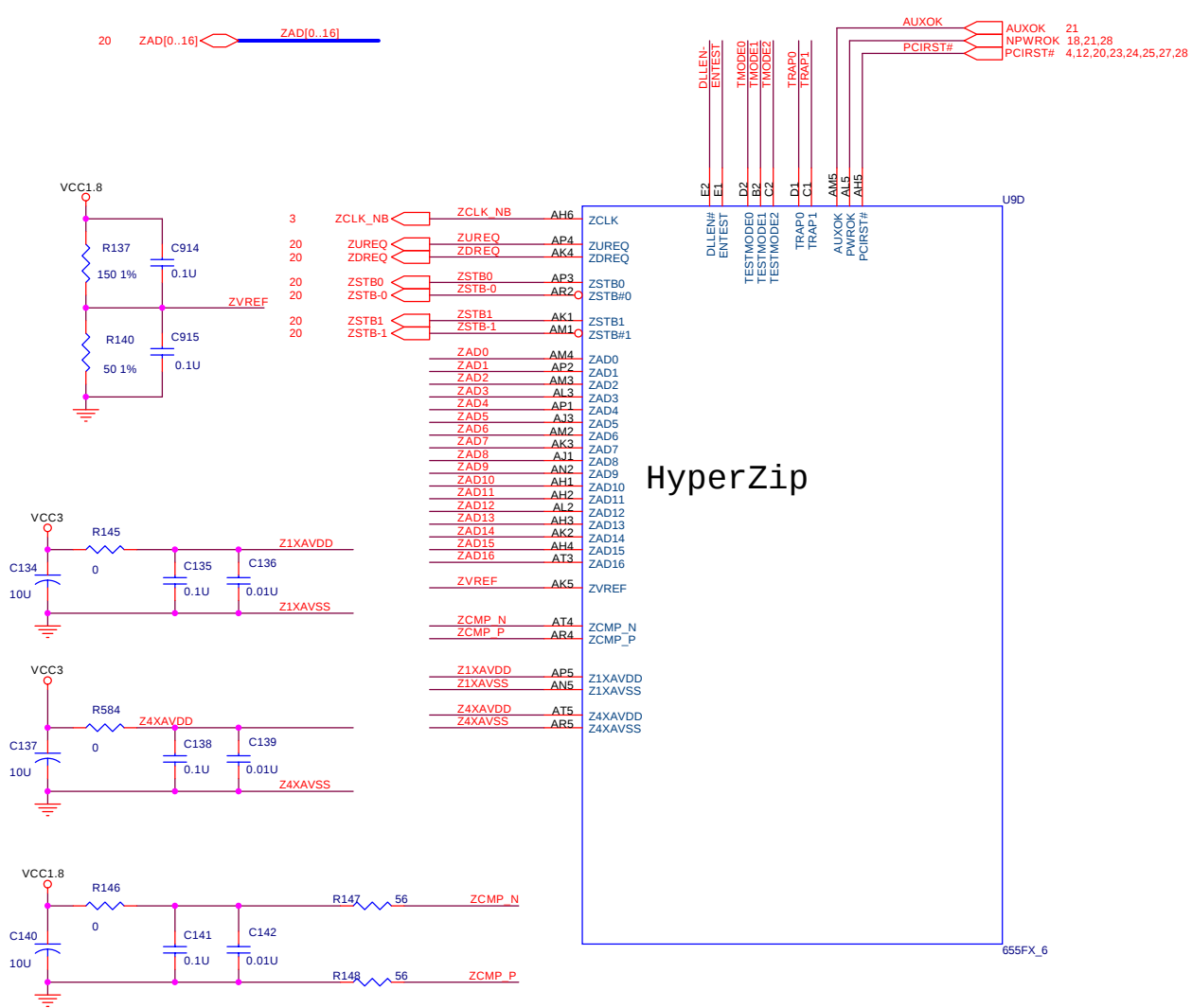


AGP

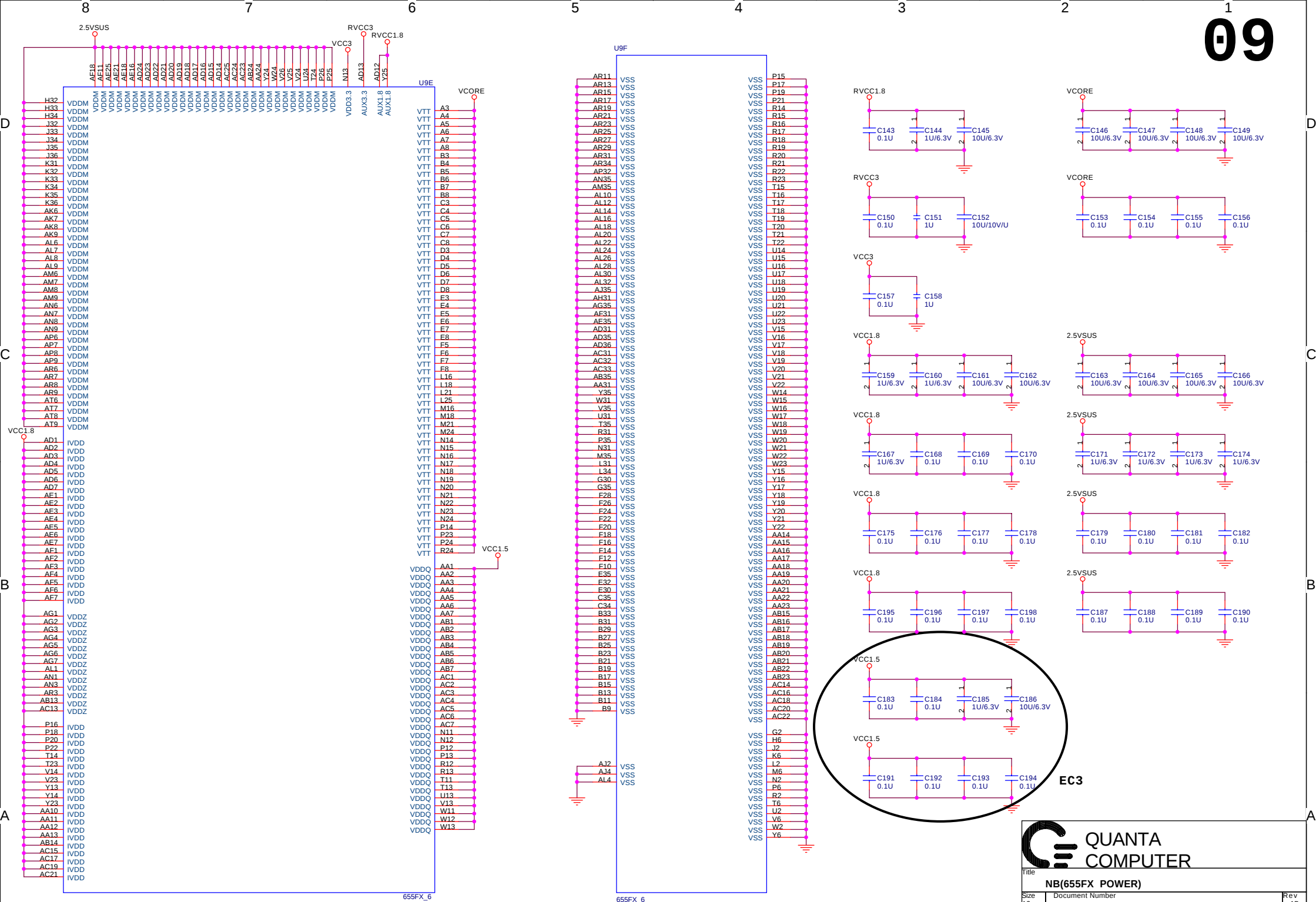
HOST



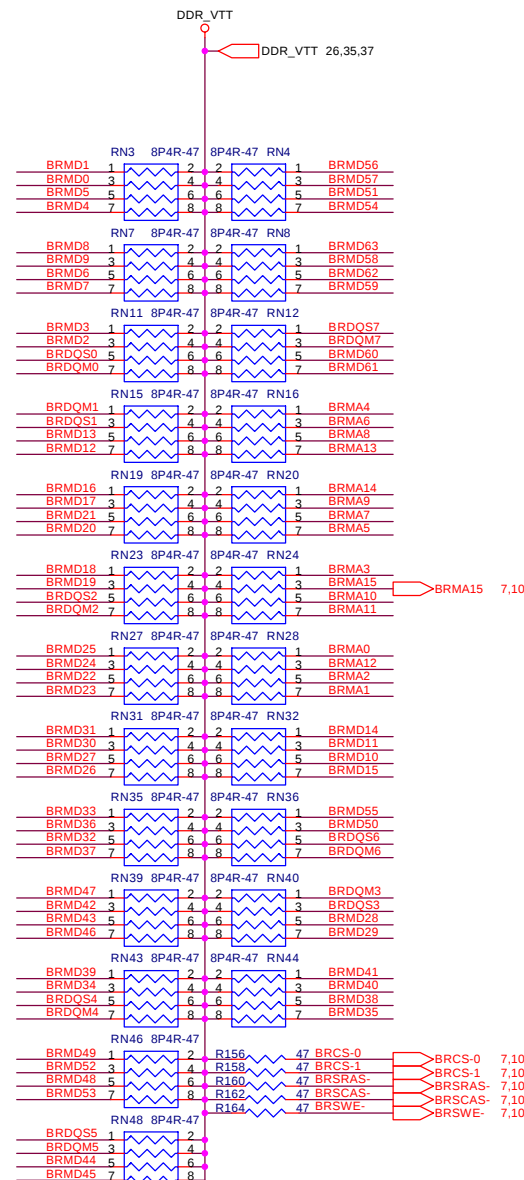
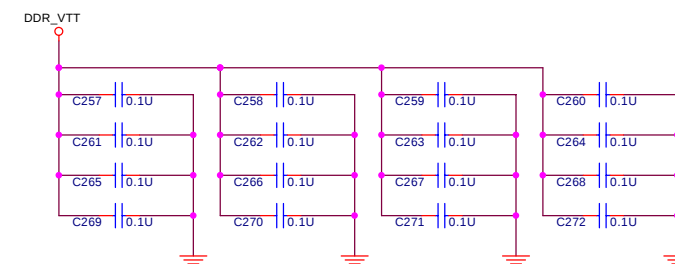




ENTEST pull down: Test Mode disable
DLEN- pull up: CPUCLK/SDCLK/AGCLK/ZCLK PLL disable
TRAP0 pull up: 655 debug mode enable
TRAP1 pull up: 655 MuTIOL type V1, default type V2







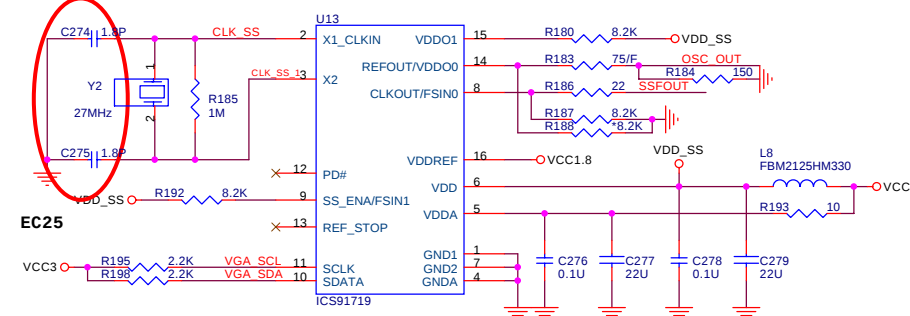
Strapping

VMEM 64/128 MB no stuff

GPI01	GPI00	AGP 1X CLOCK FEEDBACK PHASE ADJUST WITH RESPECT TO REFCLK
L0	L0	REFCLK SLIGHTLY EARLIER THAN FEEDBACK (DEFAULT)

GPI03	GPI02	CLOCK PHASE ADJUSTMEN BETWEEN X1 AND X2 CLK
L0	L0	0 TAP DELAY (DEFAULT)

Spread Spectrum Control

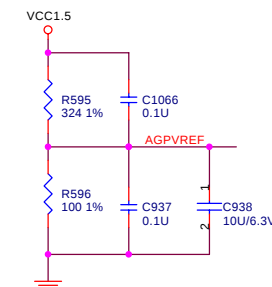


INPUT SELECT FUNCTIONALITY

PIN14	PIN15	REF VOLTAGE
0	1	1.8V

REF VOLTAGE SELECT FUNCTIONALITY

FS_IN1	FS_IN0	MHZ
1	0	27.00 IN/OUT

[illegible]

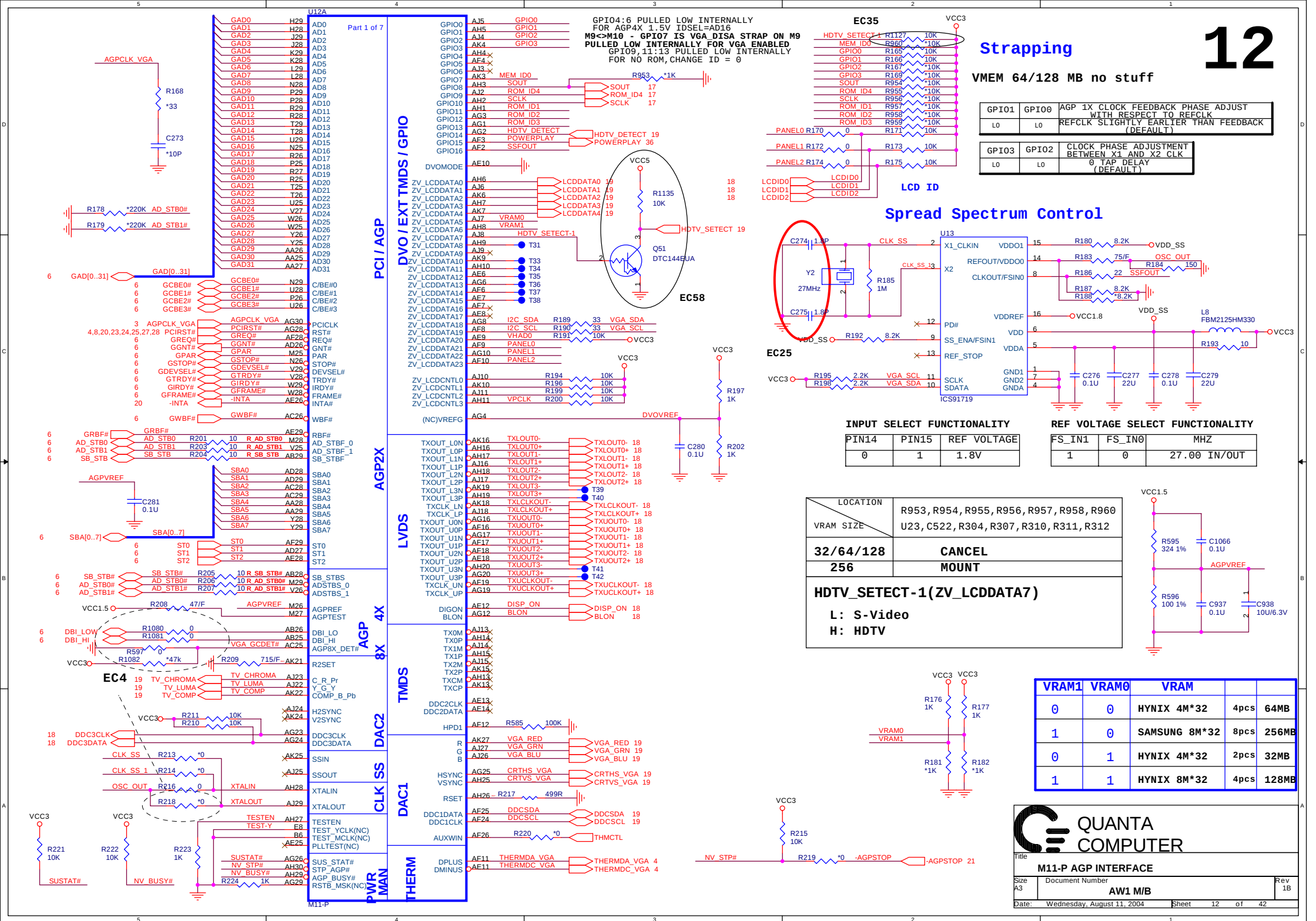
VRAM1	VRAM0	VRAM		
0	0	HYNIX 4M*32	4pcs	64MB
1	0	SAMSUNG 8M*32	8pcs	256MB
0	1	HYNIX 4M*32	2pcs	32MB
1	1	HYNIX 8M*32	4pcs	128MB



QUANTA
COMPUTER

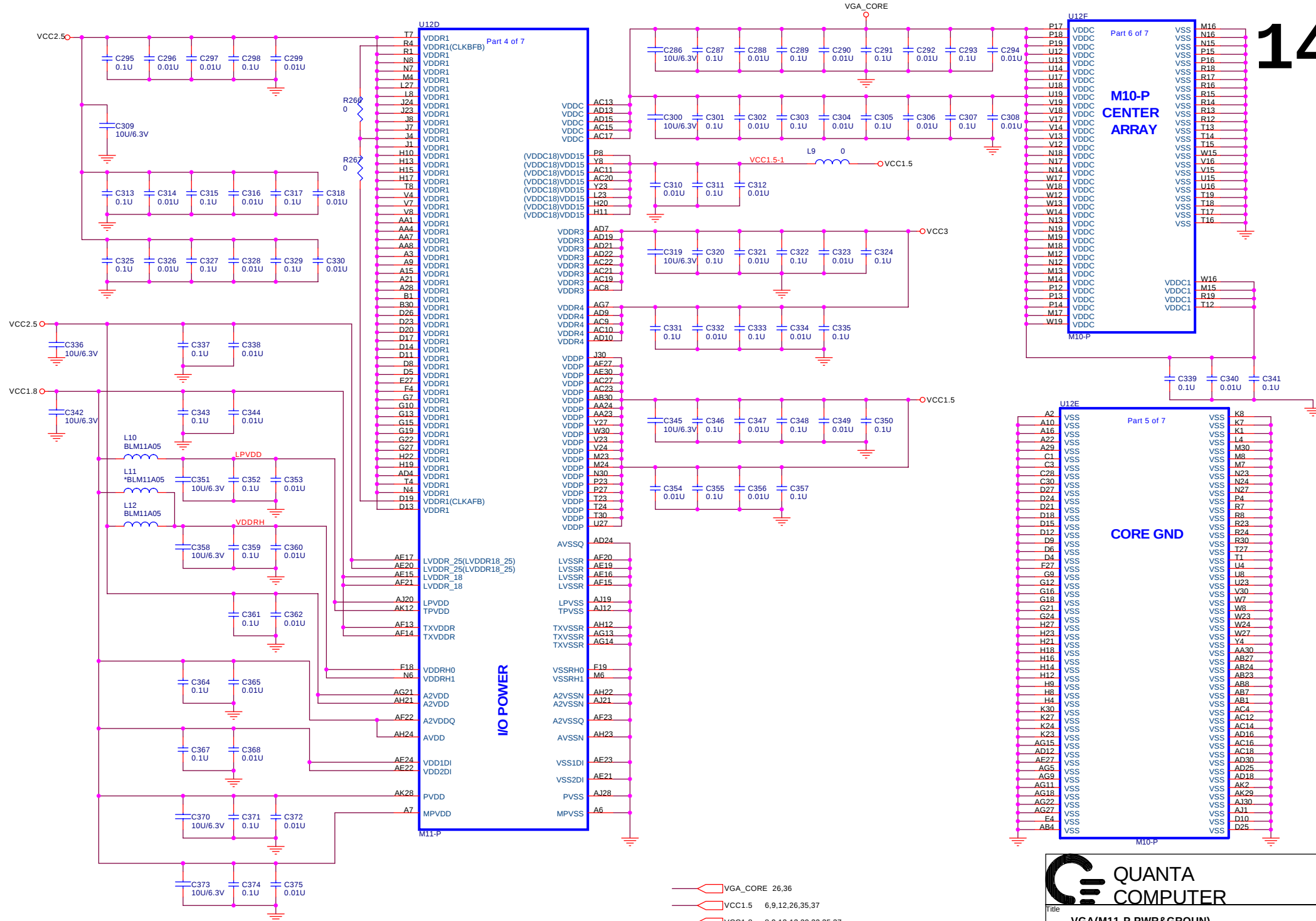
Title
M11-P AGP INTERFACE

Size A3	Document Number AW1 M/B	Rev 1B
Date: Wednesday, August 11, 2004	Sheet 12 of 42	



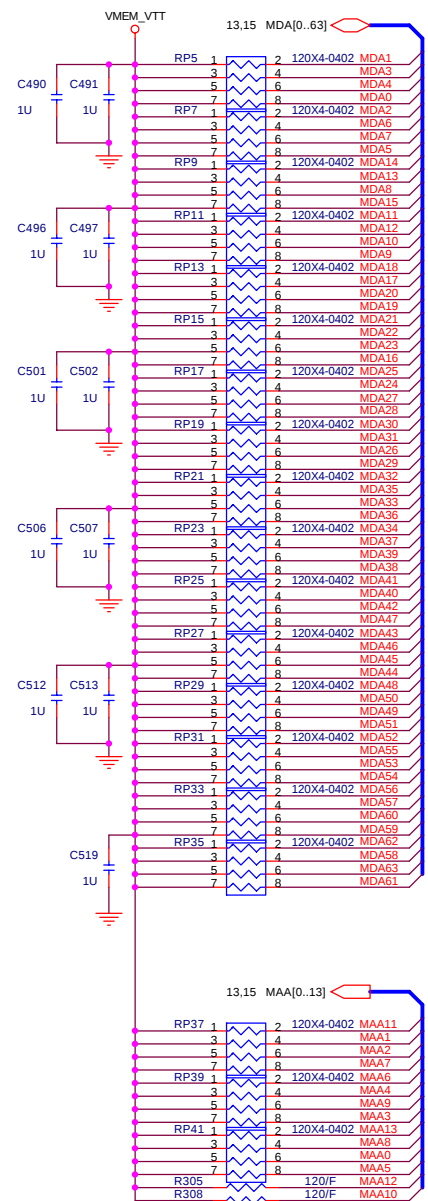


 QUANTA COMPUTER			
Title			
VGA(M11-P MEM A&B)			
Size A3	Document Number		Rev 1B
	AW1 M/B		
Date:	Wednesday, August 11, 2004	Sheet	13 of 42

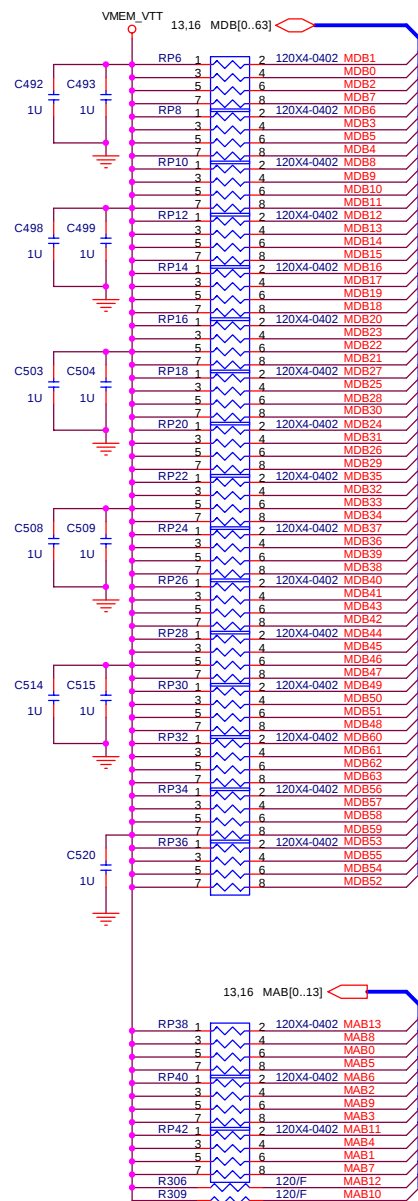


VGA_CORE	26,36
VCC1.5	6,9,12,26,35,37
VCC1.8	8,9,12,13,20,22,35,37
VCC2.5	3,5,13,15,16,26,35,37

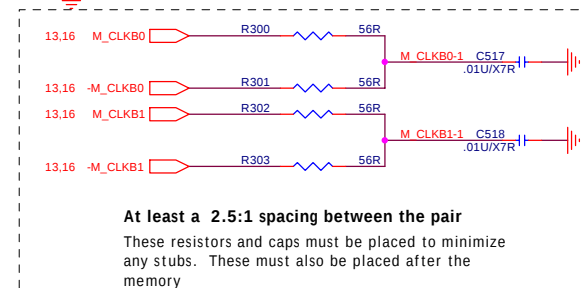
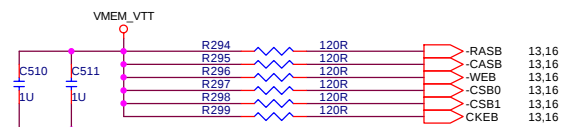
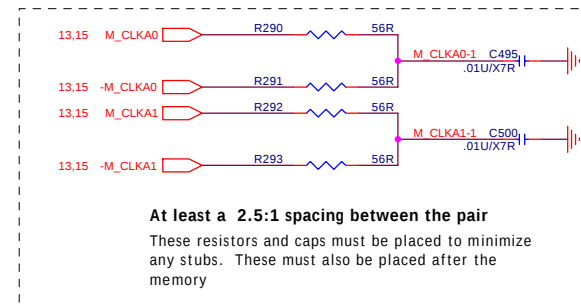
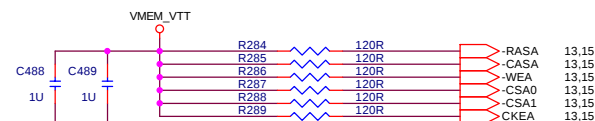
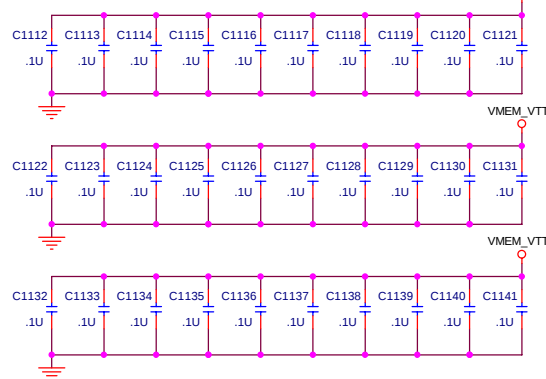
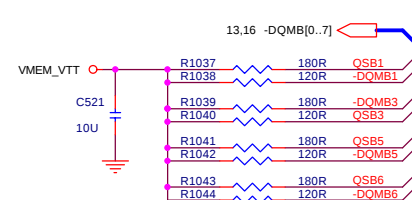
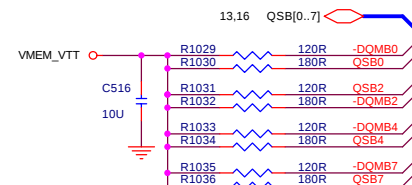
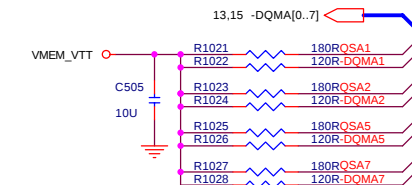
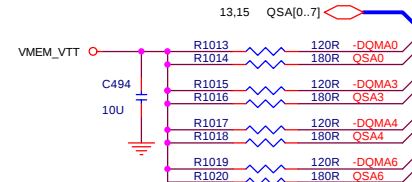




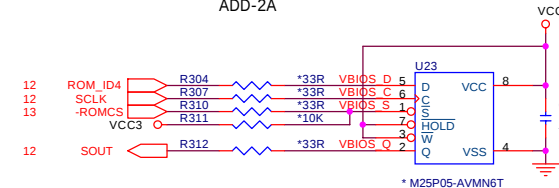
Place at nets mid point



Place at nets mid point

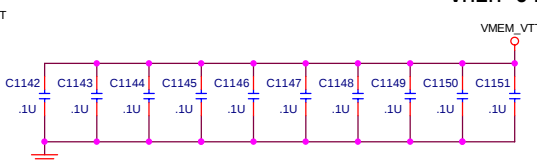
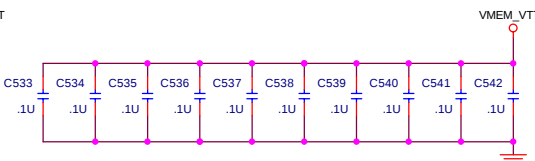
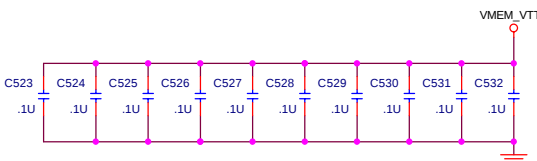


ADD-2A



VMEM 64/128 MB no stuff

SERIAL ROM



QUANTA COMPUTER	
Title: DDR VRAM PULL UP	
Size: Custom	Document Number: AW1 M/B
Date: Wednesday, August 11, 2004	Sheet: 17 of 42
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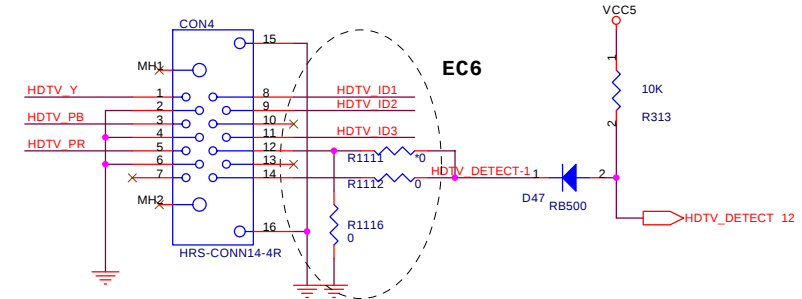


LED

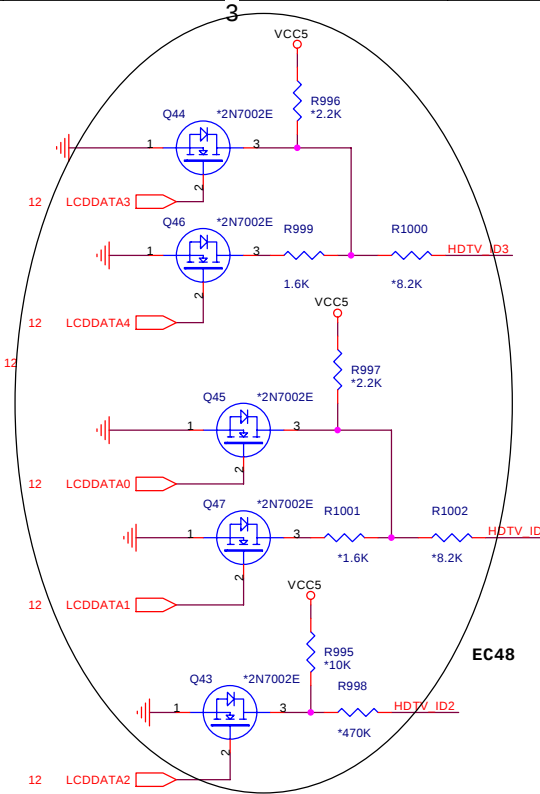
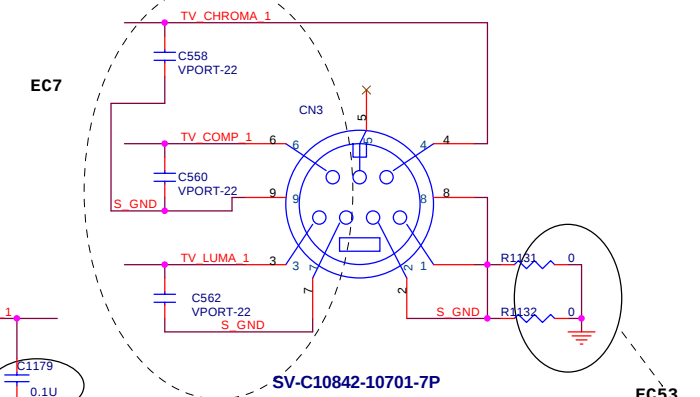
7 Segment LED

LID

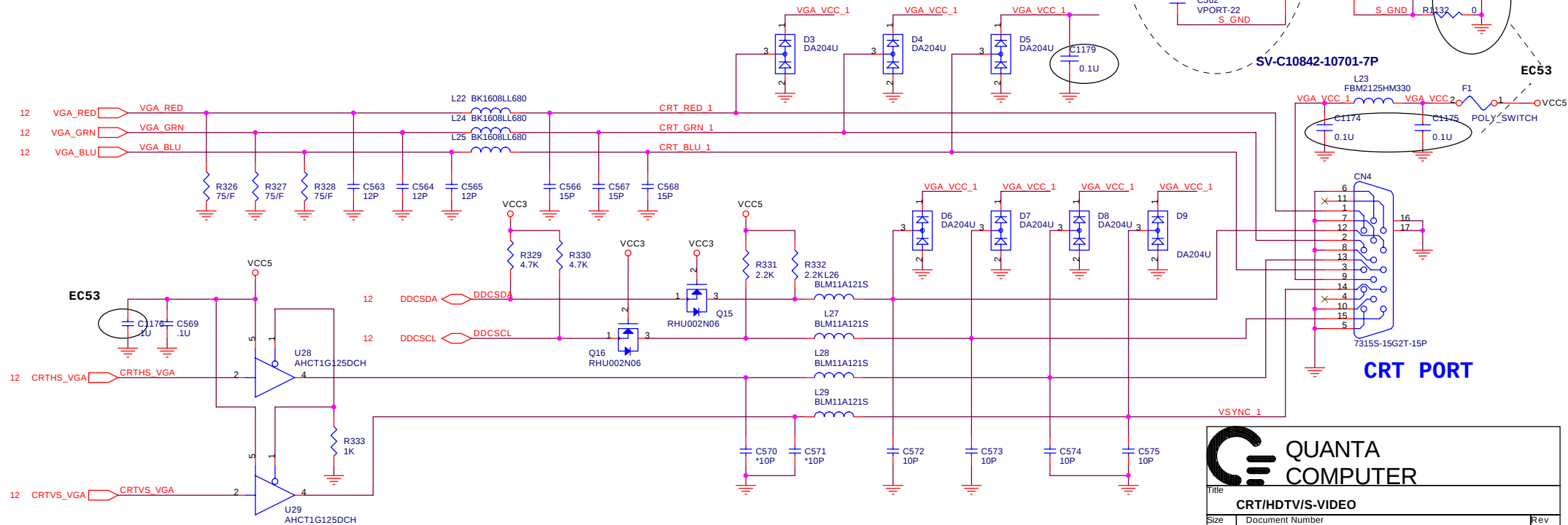
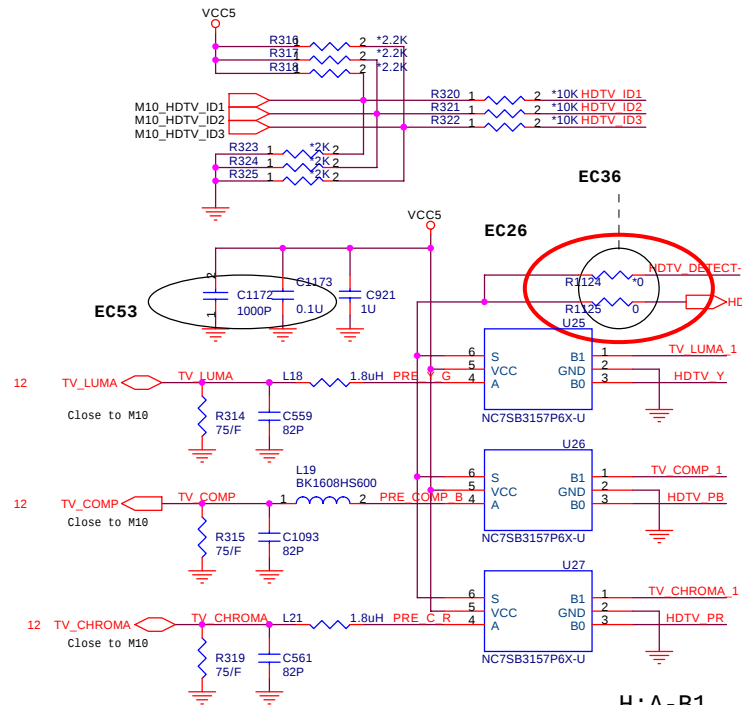
HDTV

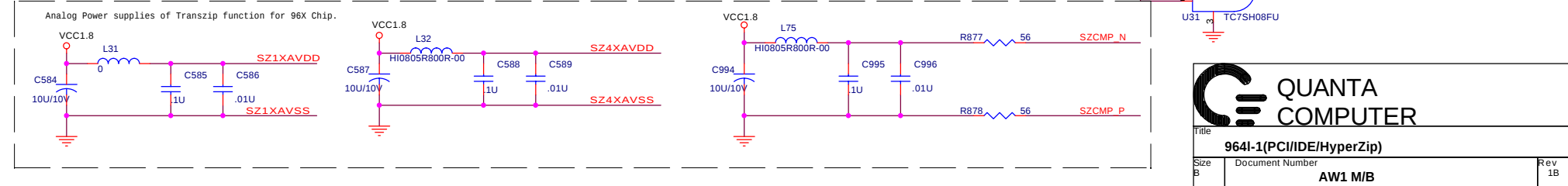
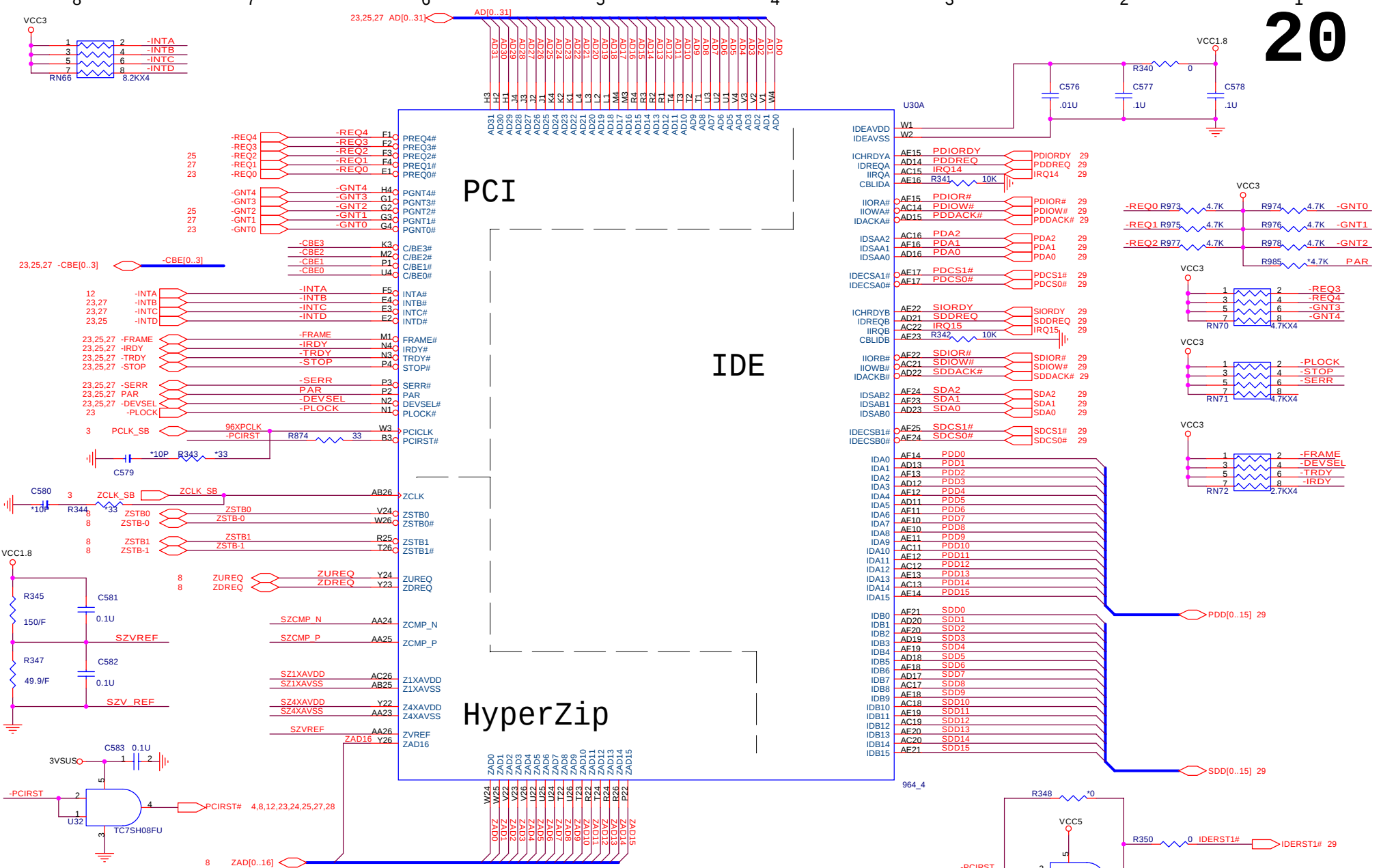


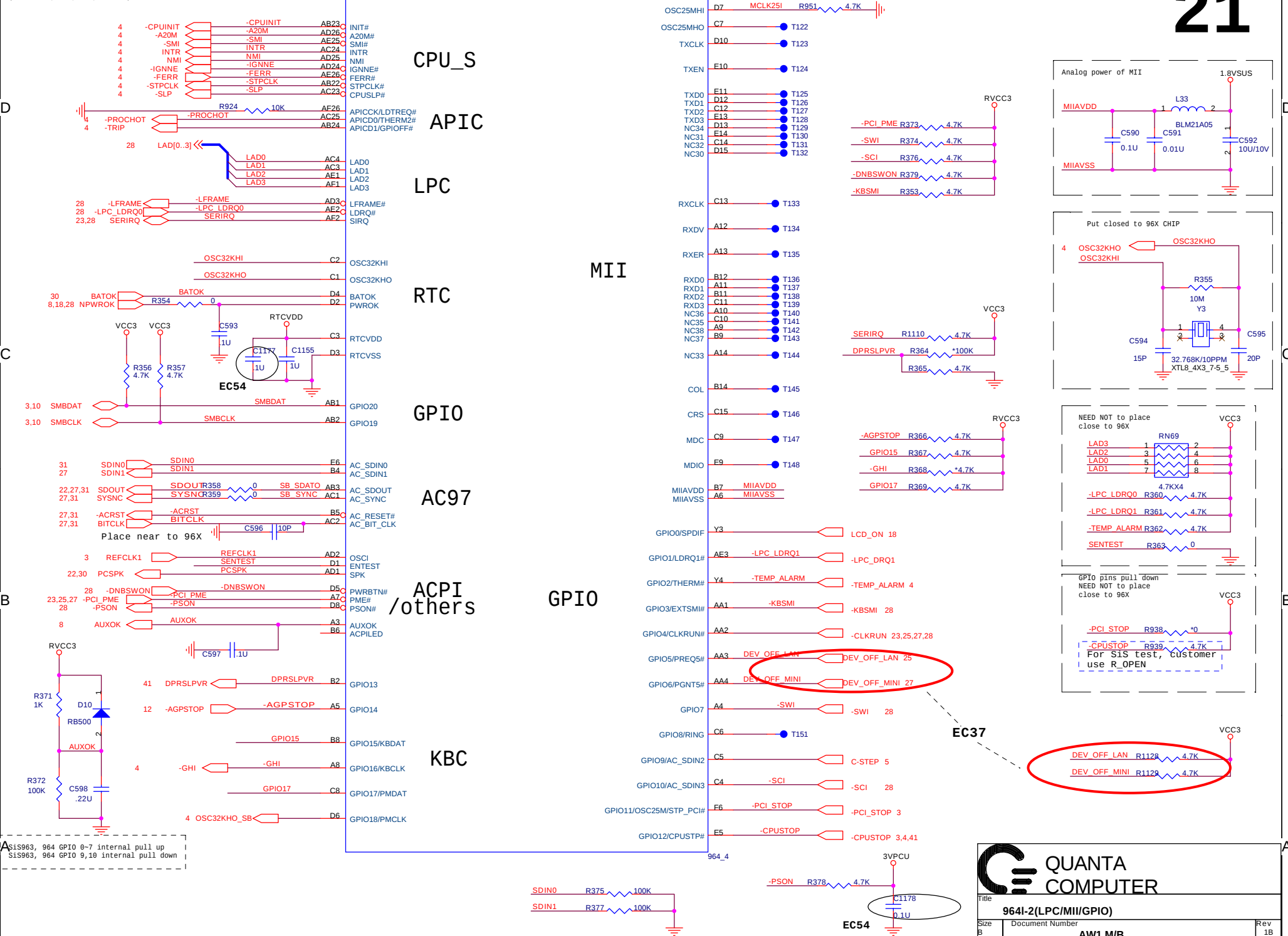
S-VIDEO



H:A-B1
L:A-B0







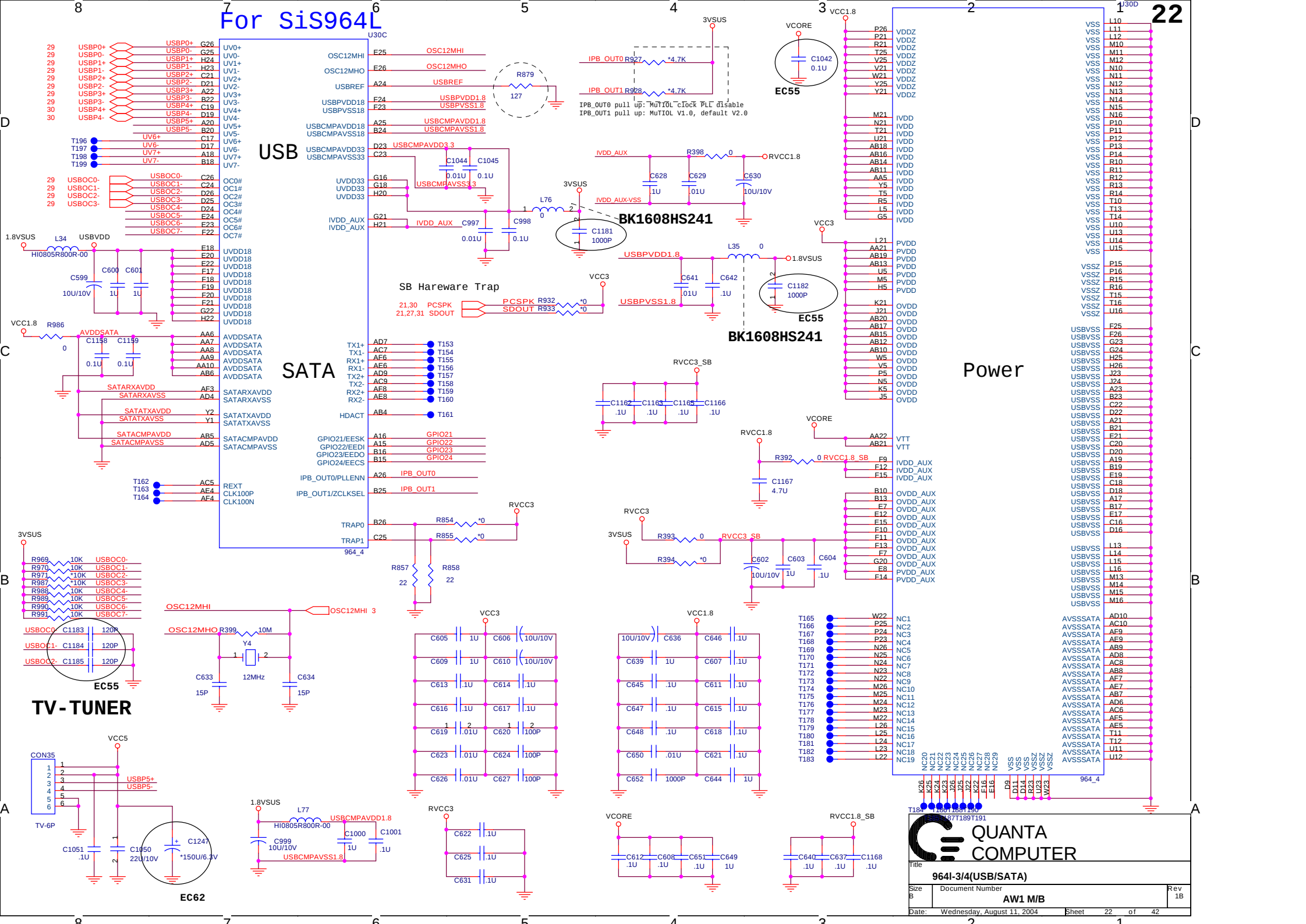
For SiS964L

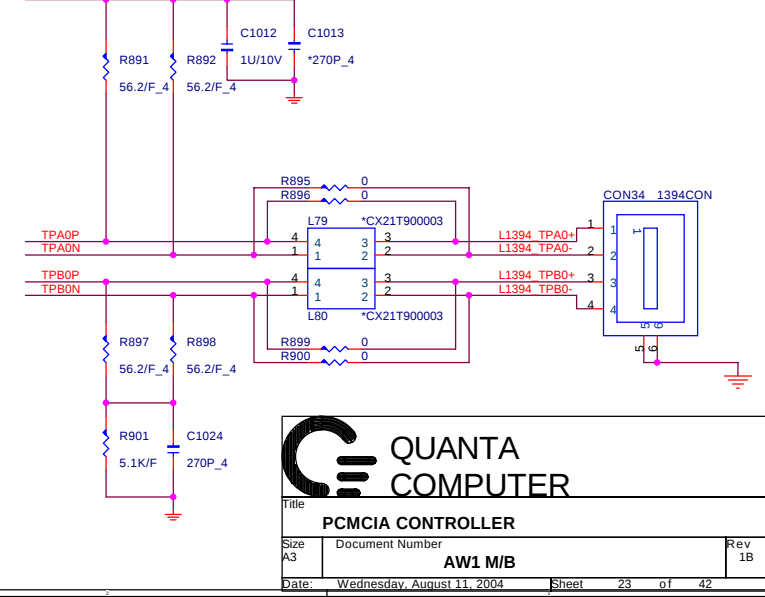
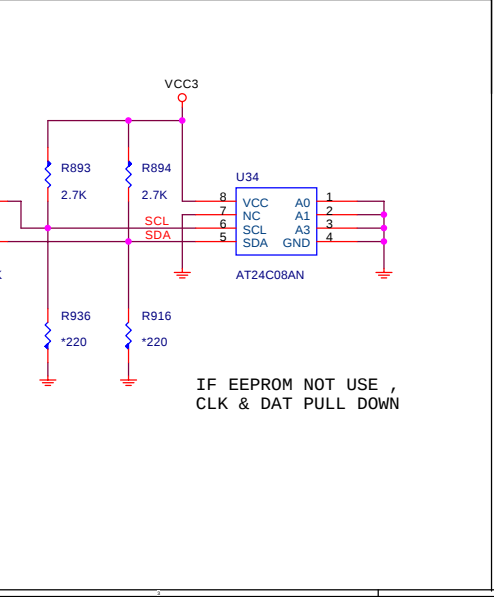
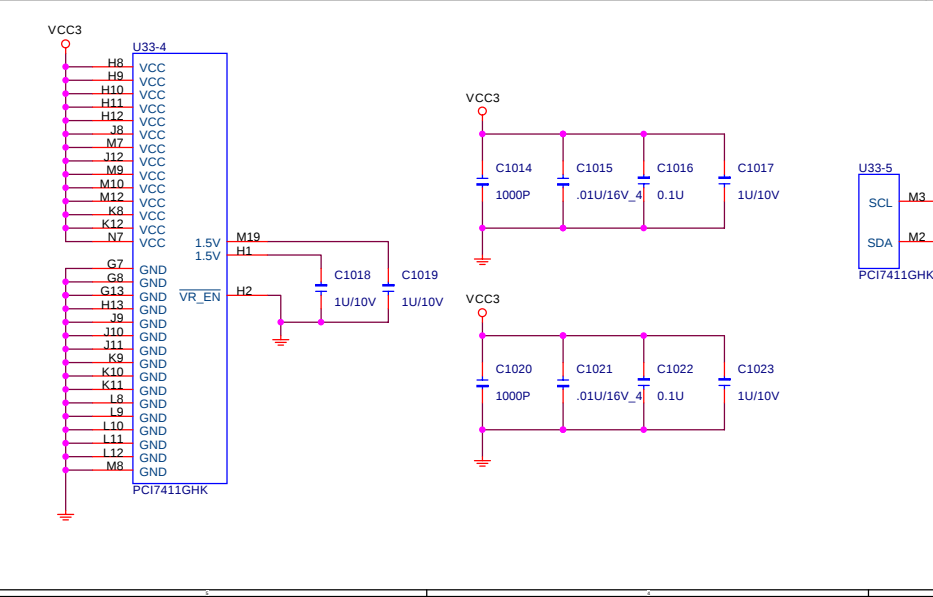
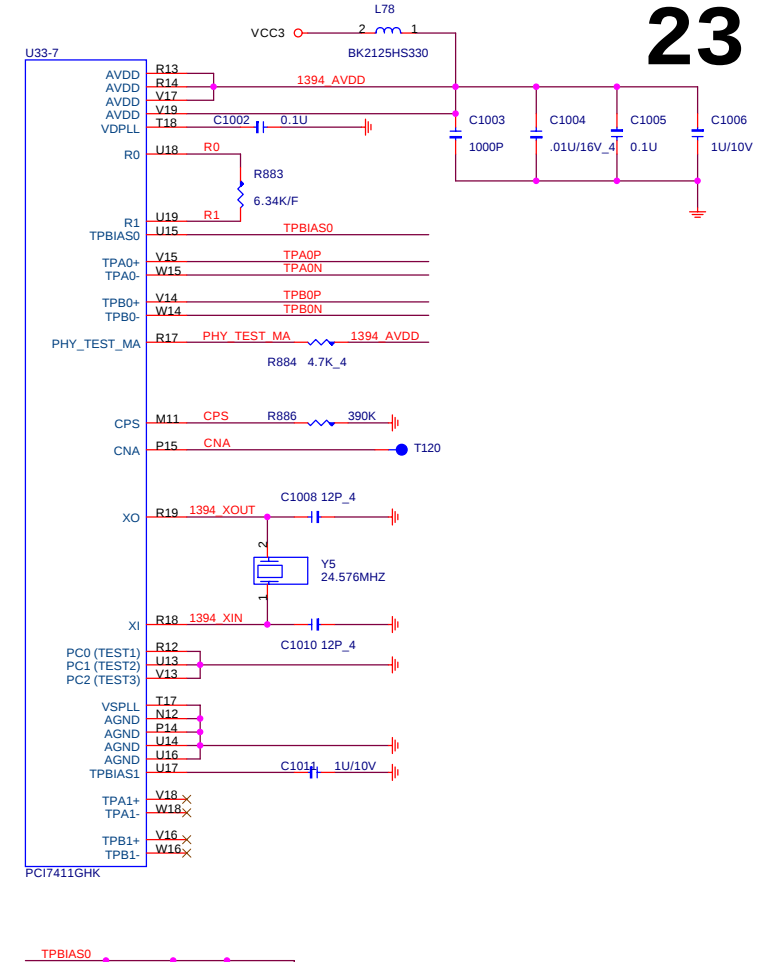
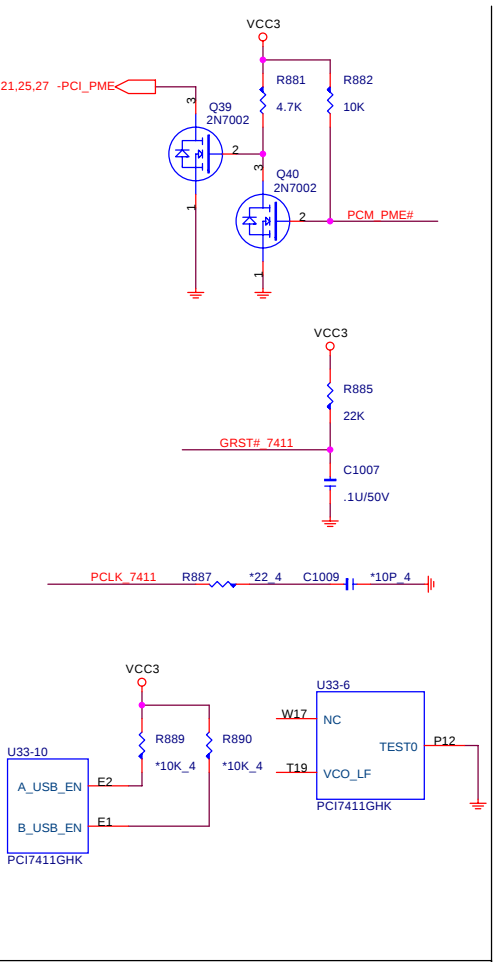
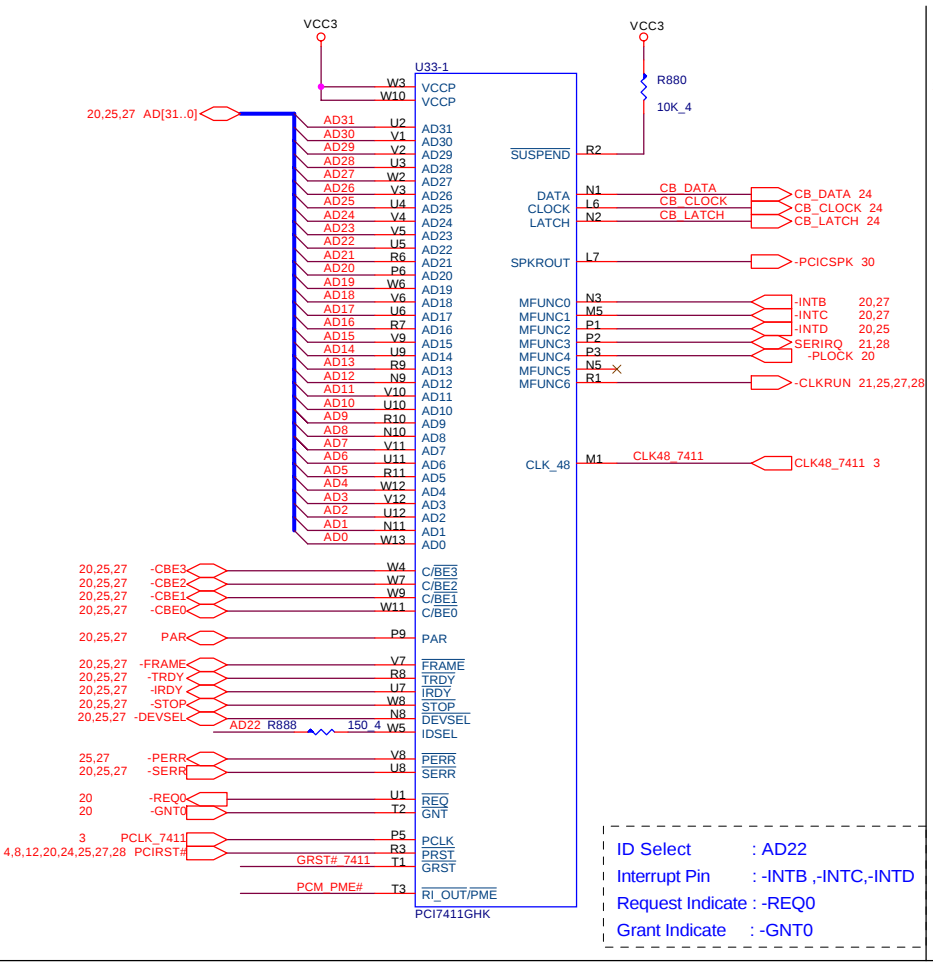
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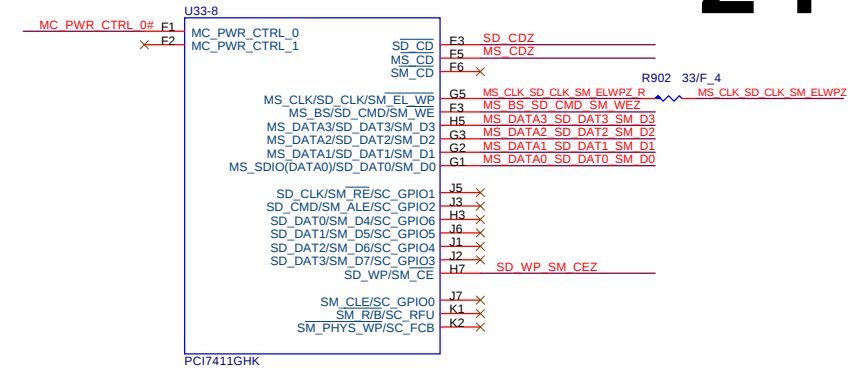
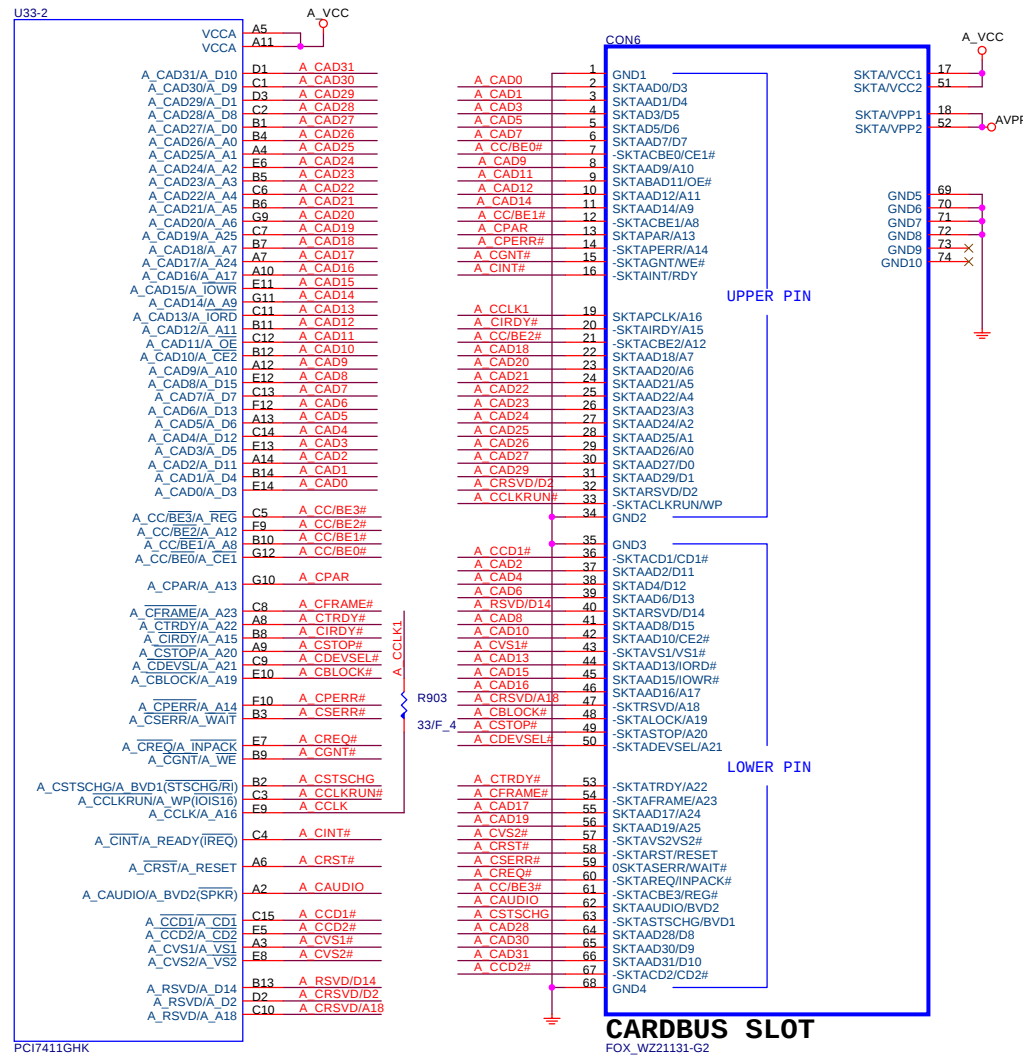
SATA

Power

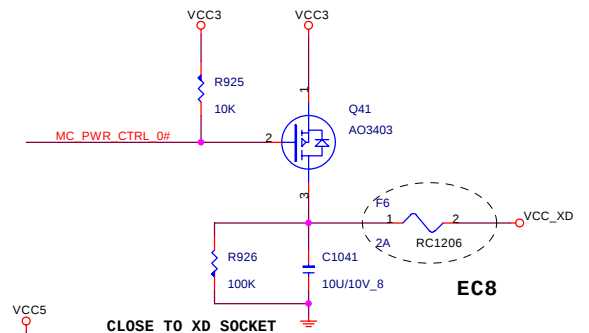
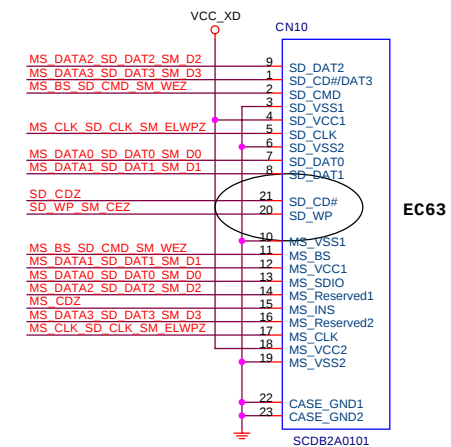
TV-TUNER



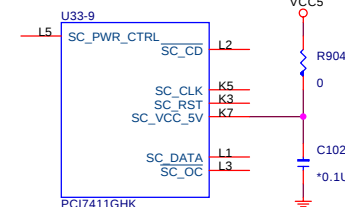
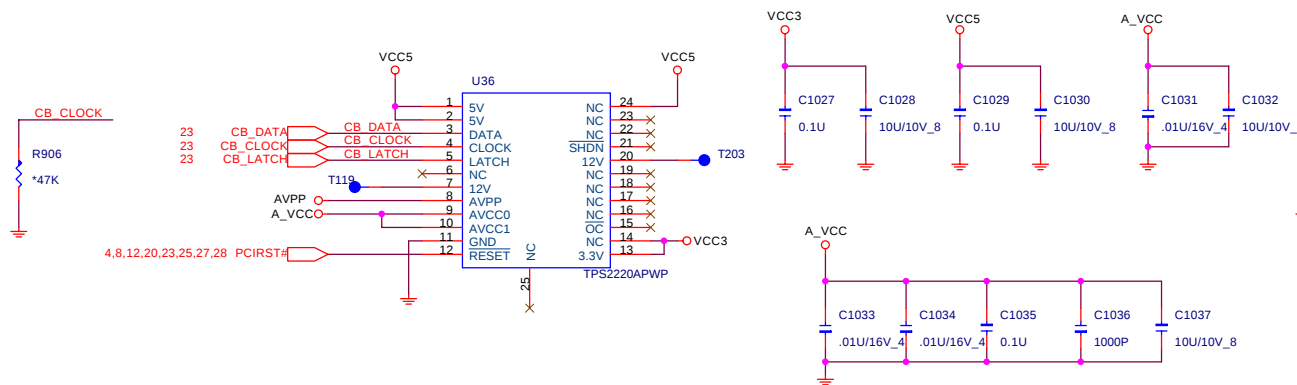




3 IN 1 CARD READER



Title		
PCMCIA&3IN1		
Size	Document Number	Rev
A3	AW1 M/B	1B
Date:	Wednesday, August 11, 2004	Sheet 24 of 42



LAN-BCM5788(10/100/GIGA)

BCM4401--10/100
BCM5788--10/100/GIGA

25

FOR 5788--VCC3
FOR 4401--RVCC3

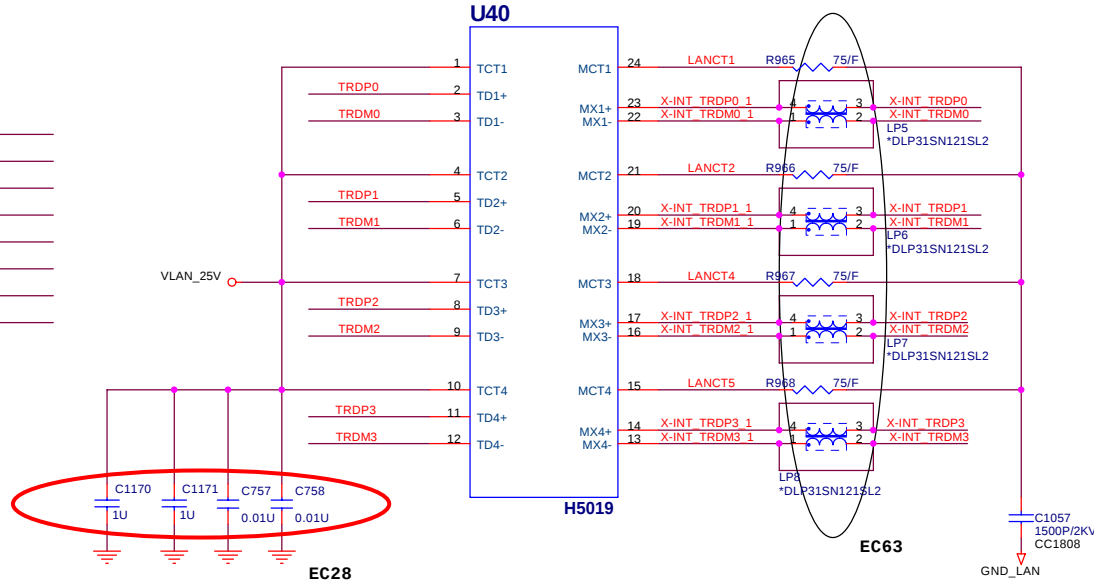
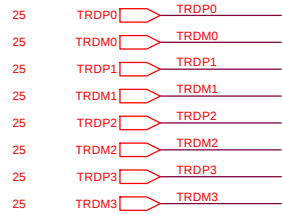
ID Select : AD21
Interrupt Pin : INTD#
Request indicates : REQ2#
Grant indicates : GNT2#

15mm x 15mm
BGA196

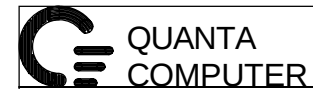
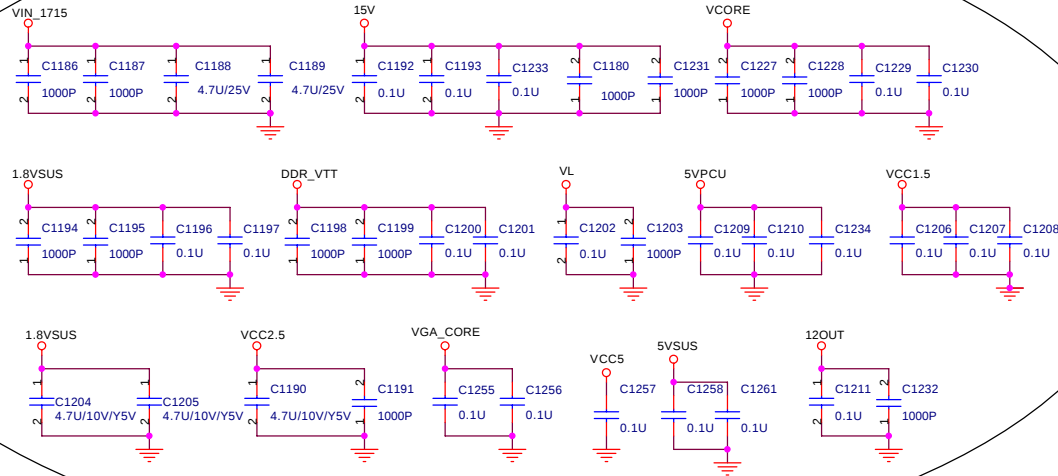
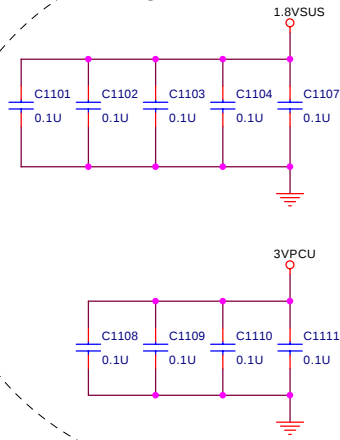
U37
BCM5788

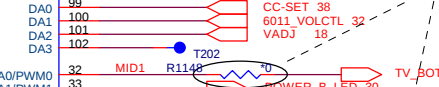
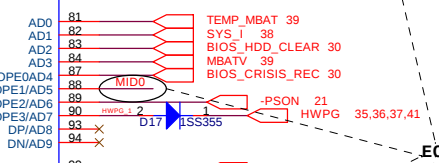
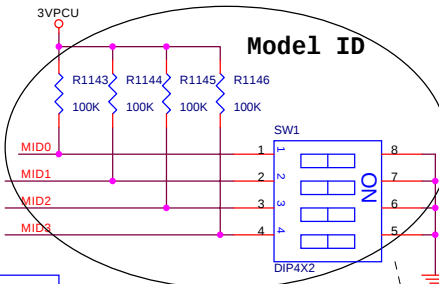
QUANTA
COMPUTER

Title			BUM5788-10/100/1G
Size	Document Number	Rev	
A3	AW1 M/B	1B	
Date:	Wednesday, August 11, 2004	Sheet	25 of 42

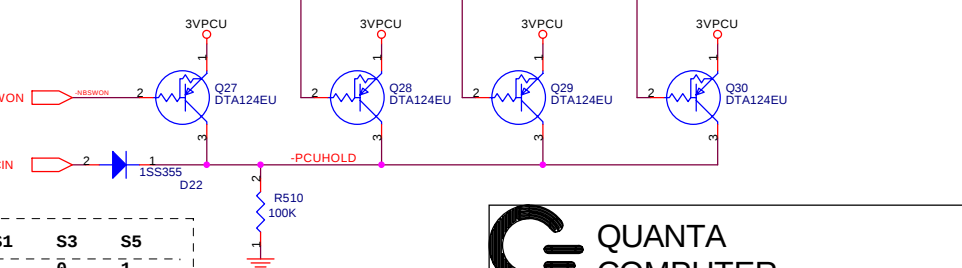
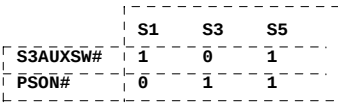
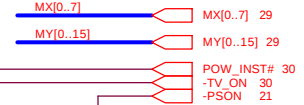
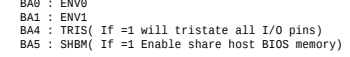
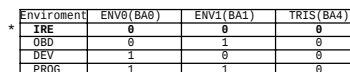
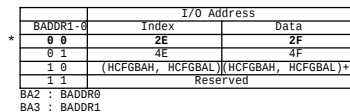
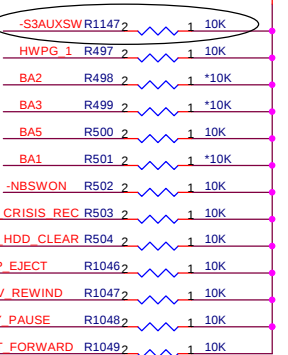


For EMI





Strapping Pin

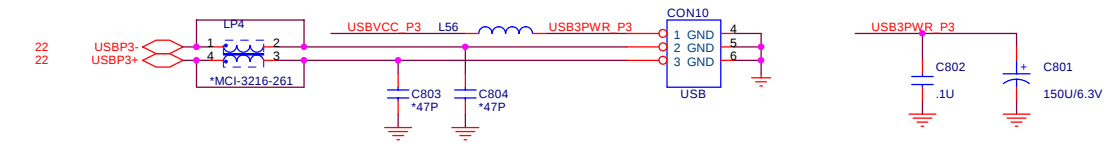
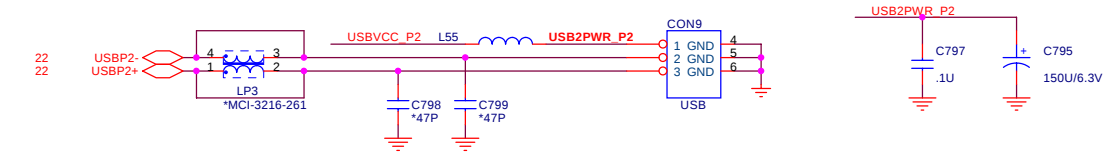
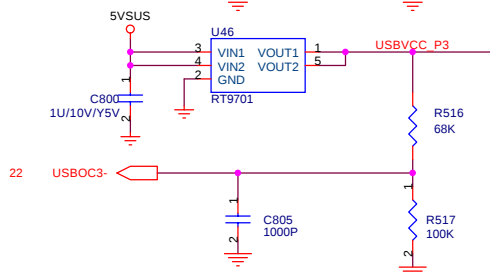
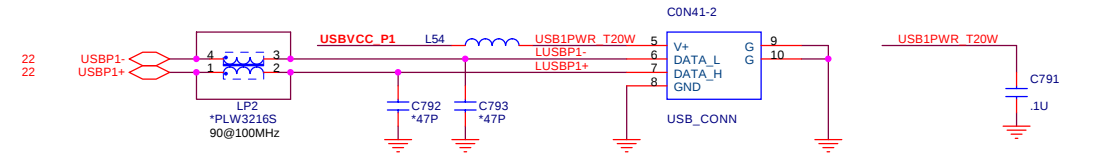
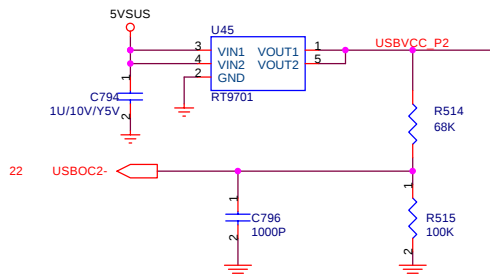
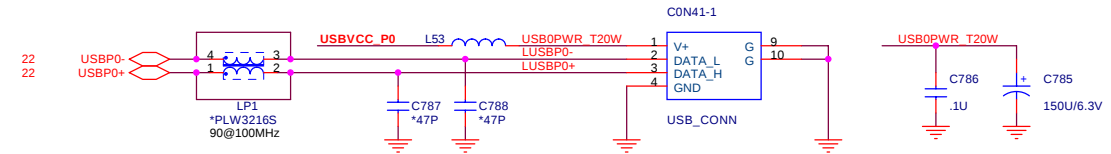
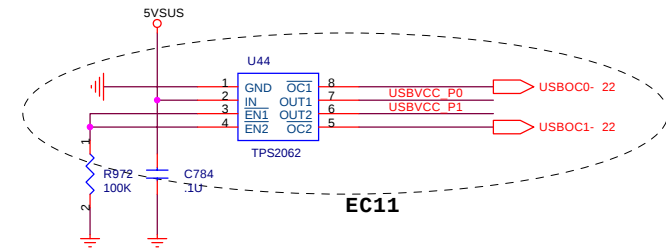


USB Power and Over current

USB Connector

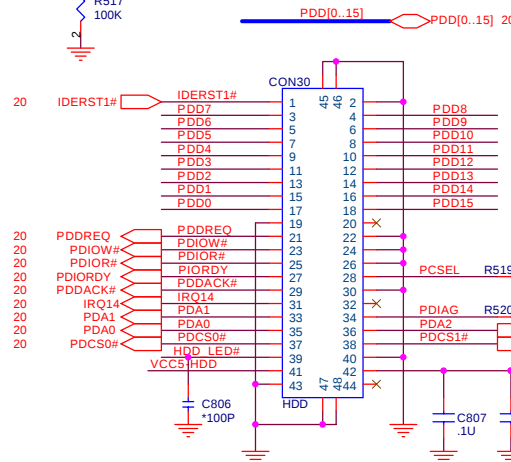
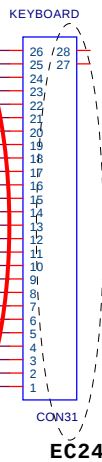
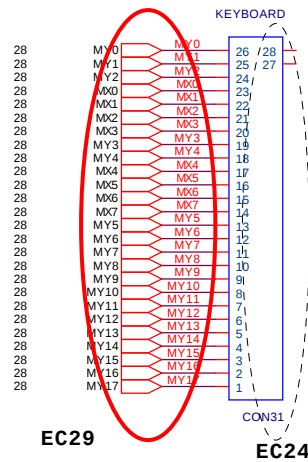
Place near the
USB connector

29

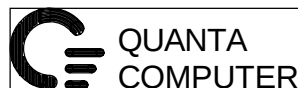
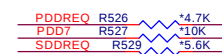
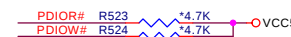
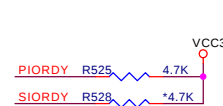
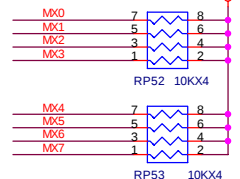


CD-ROM CONNECTOR

KEYBOARD

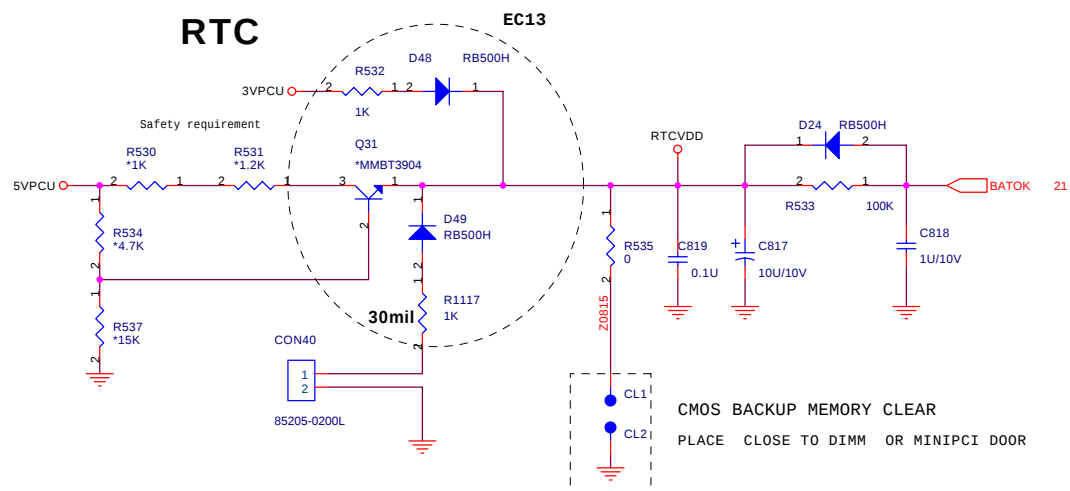


HDD CONNECTOR



Title			KB/USB/HDD/CDROM
Size	Document Number	Rev	
A3	AW1 M/B	1B	
Date:	Thursday, August 12, 2004	Sheet	29 of 42

RTC

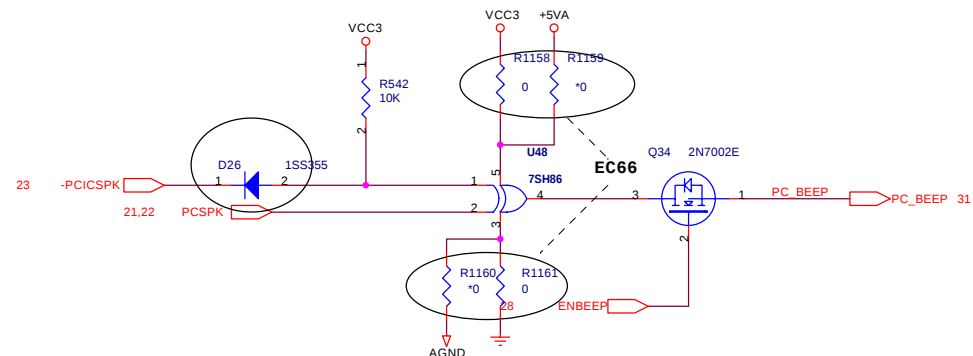


CMOS BACKUP MEMORY CLEAR
PLACE CLOSE TO DIMM OR MINIPCI DOOR

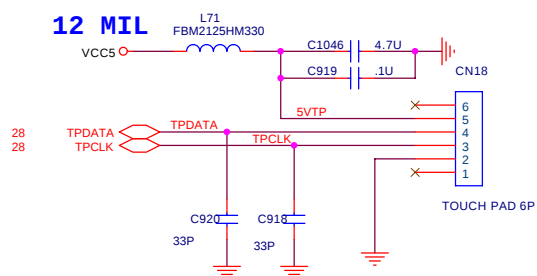
BIOS CRISIS RECOVERY
PLACE CLOSE TO DIMM OR MINIPCI DOOR

BIOS AND HDD PASSWORD CLEAR
PLACE CLOSE TO DIMM OR MINIPCI DOOR

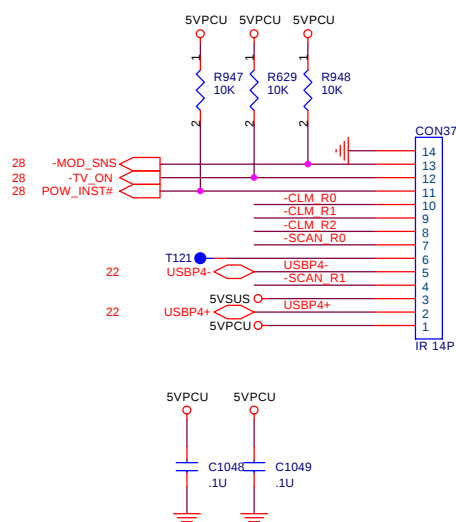
PC-BEEP



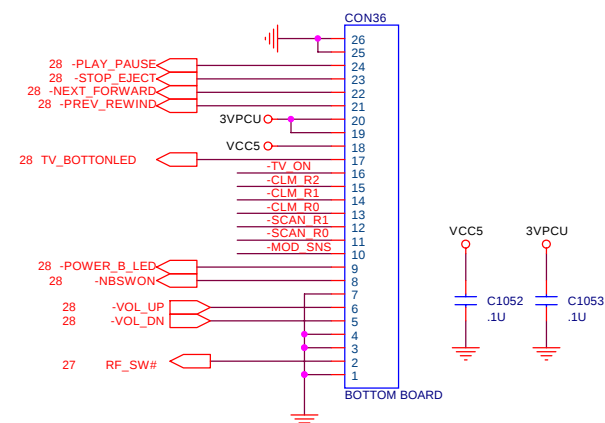
TOUCH PAD

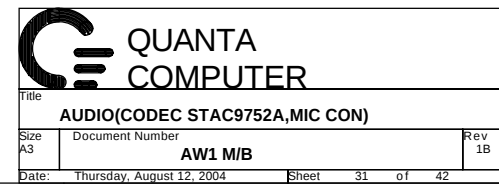


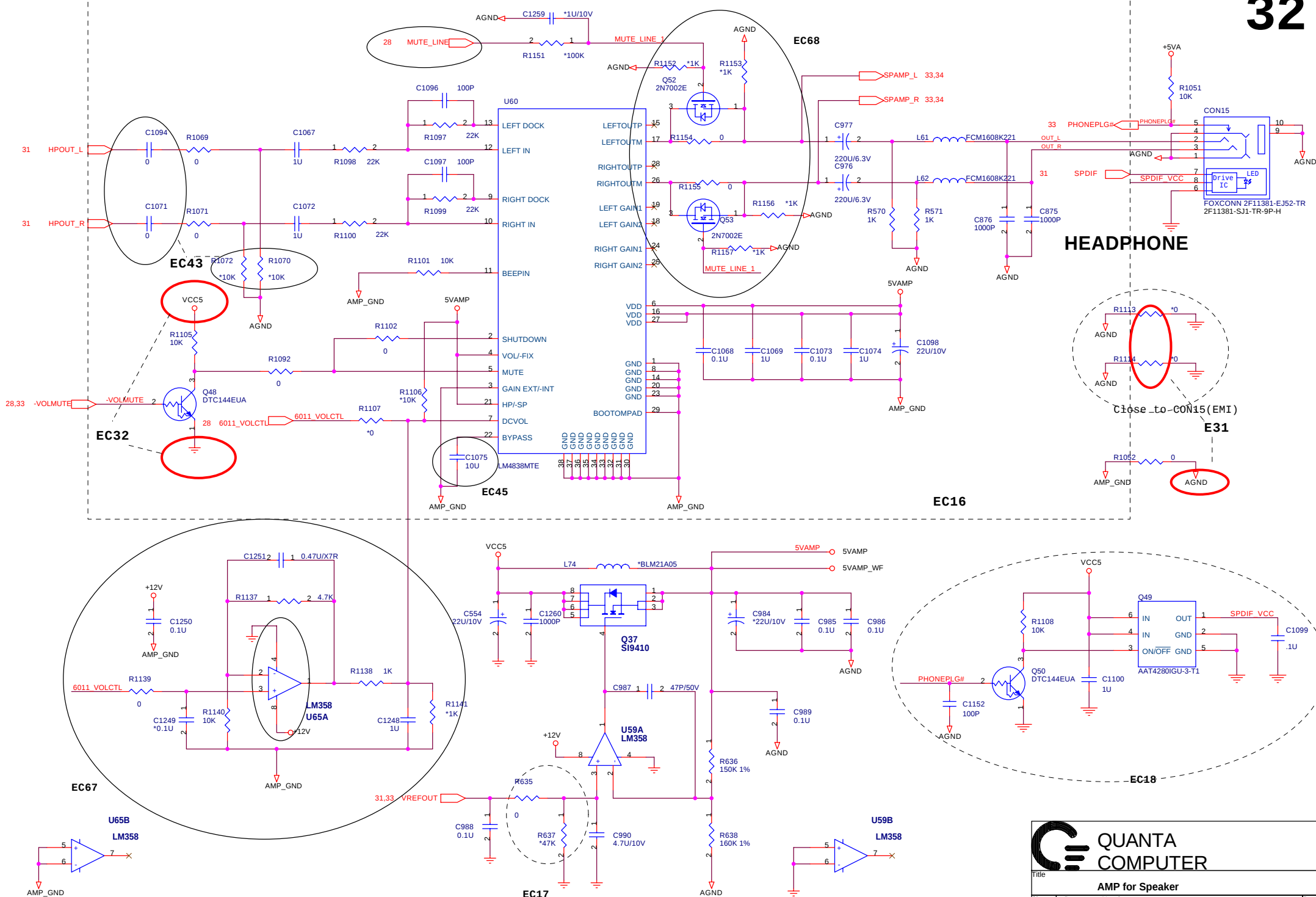
TO RECEIVER MODULE



BUTTON BOARD







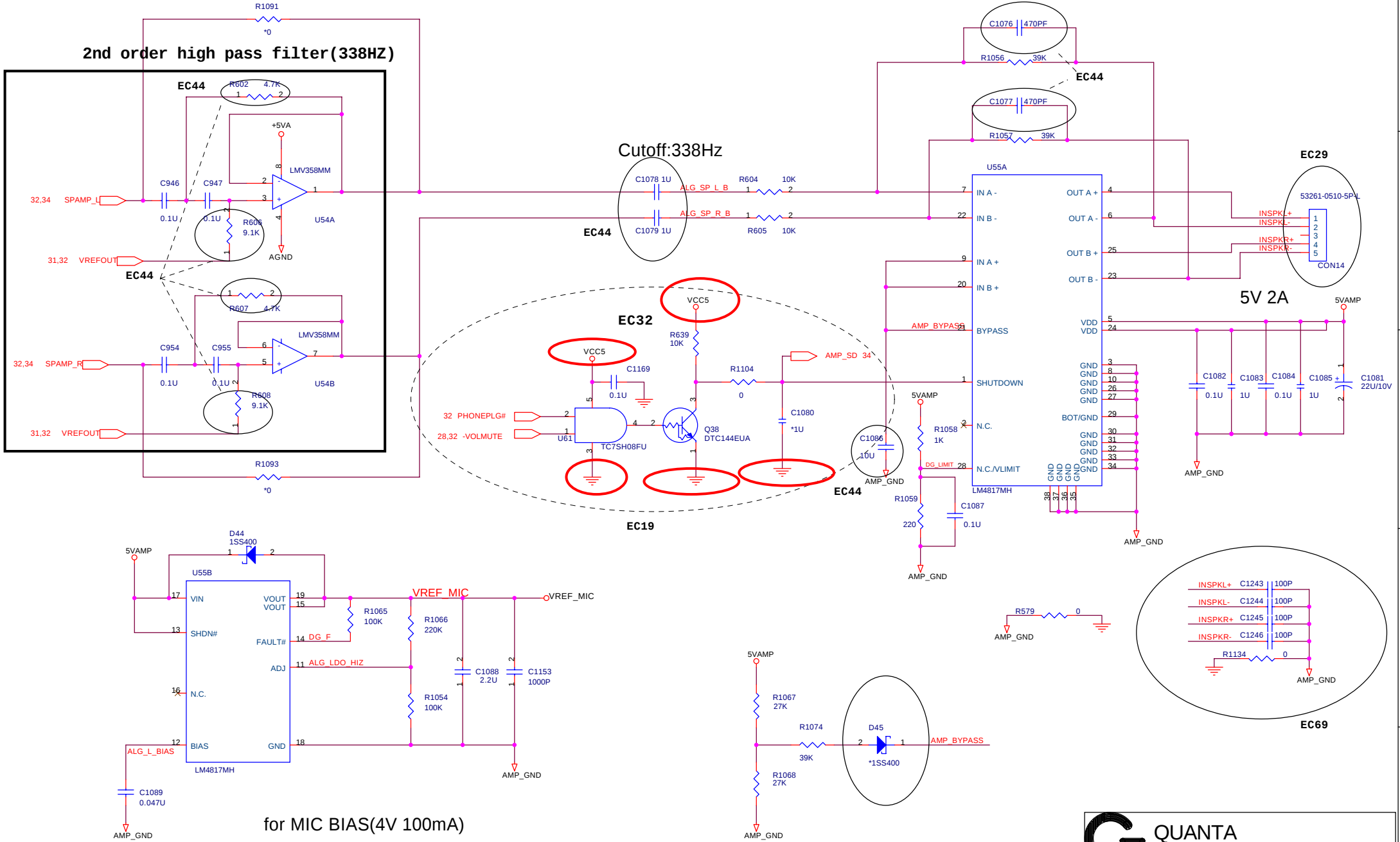
QUANTA
COMPUTER

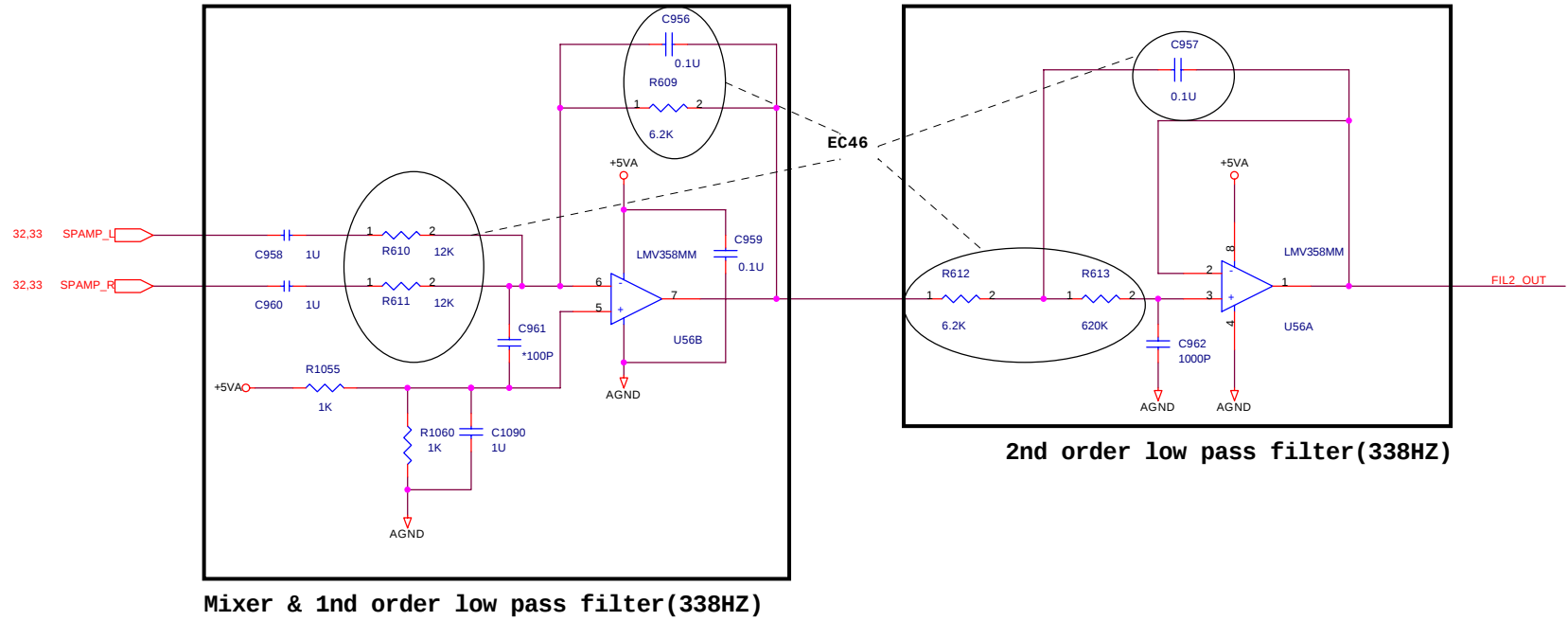
Title: **AMP for Speaker**

Size: A3 Document Number: **AW1 M/B**

Date: Wednesday, August 11, 2004 Sheet 32 of 42

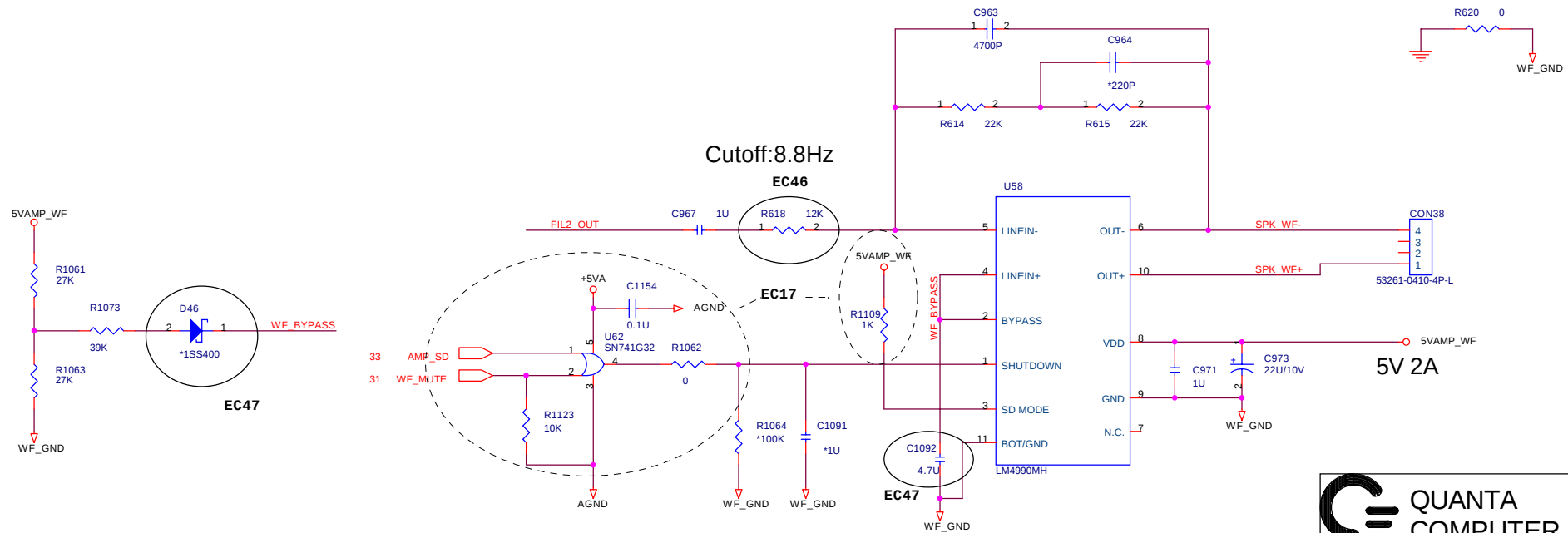
Rev 1B



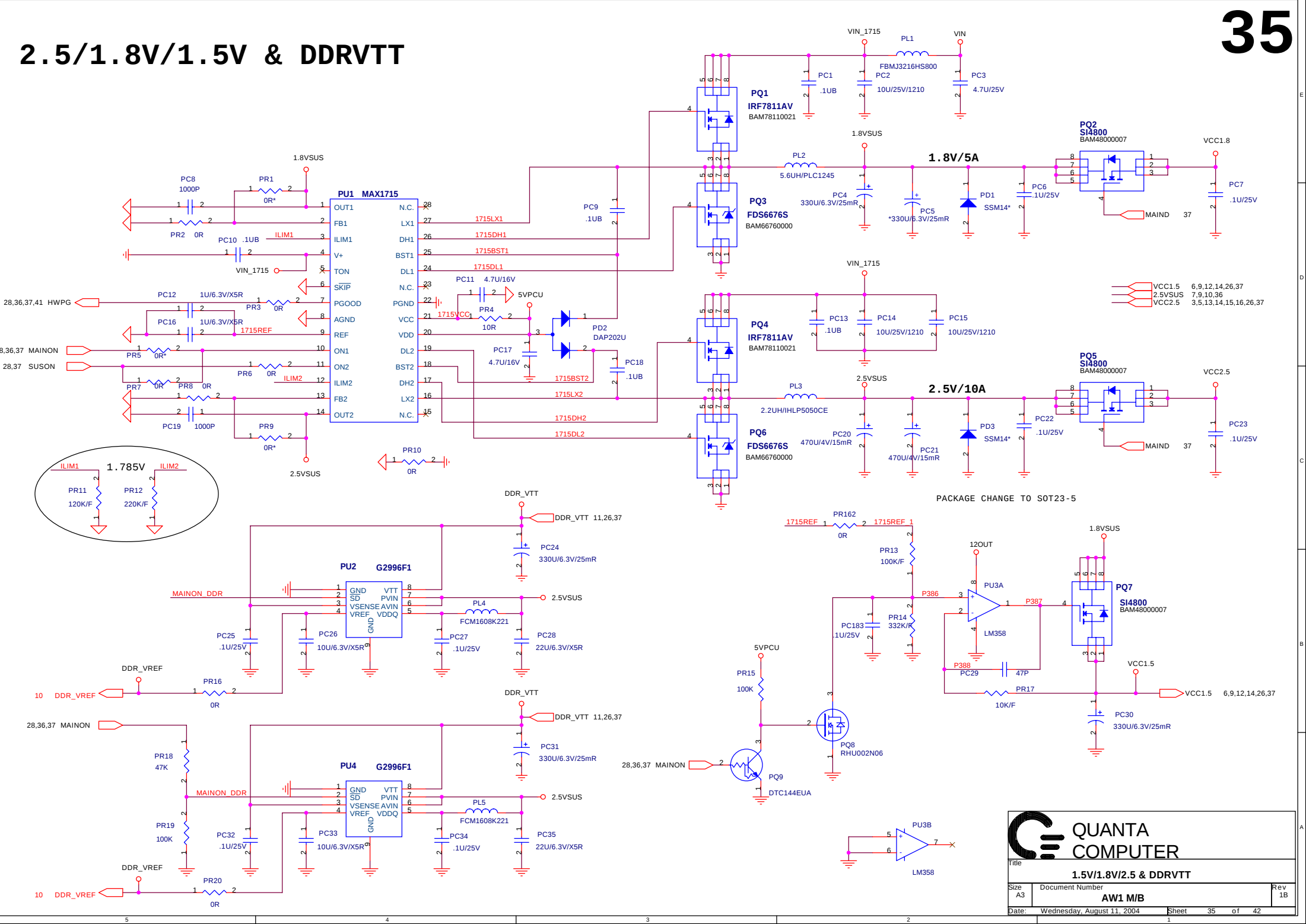


Cutoff:770Hz

Cutoff:8.8Hz



2.5/1.8V/1.5V & DDRVTT



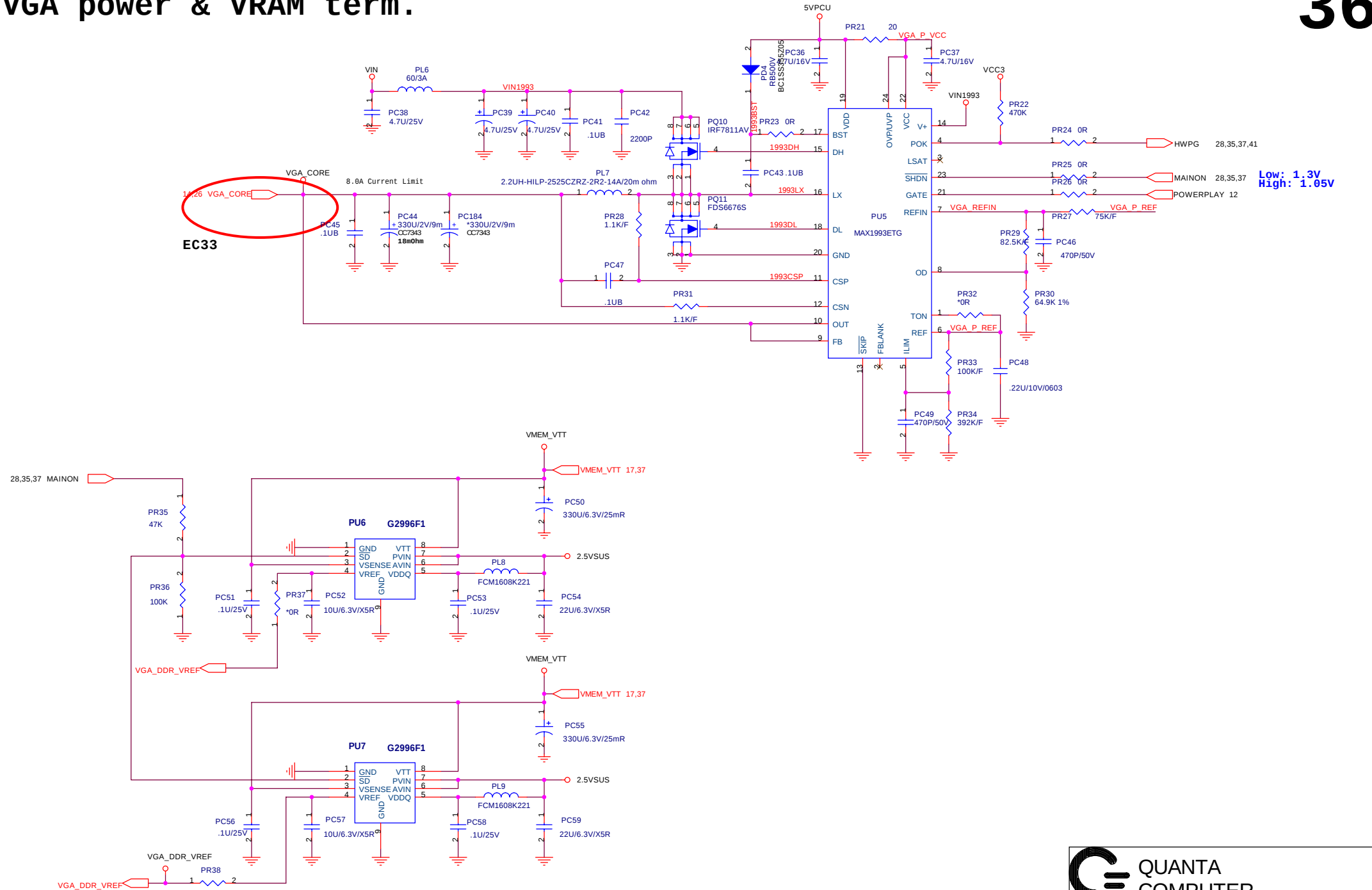
**QUANTA
COMPUTER**

Title: **1.5V/1.8V/2.5 & DDRVTT**

Size: A3 Document Number: **AW1 M/B** Rev: 1B

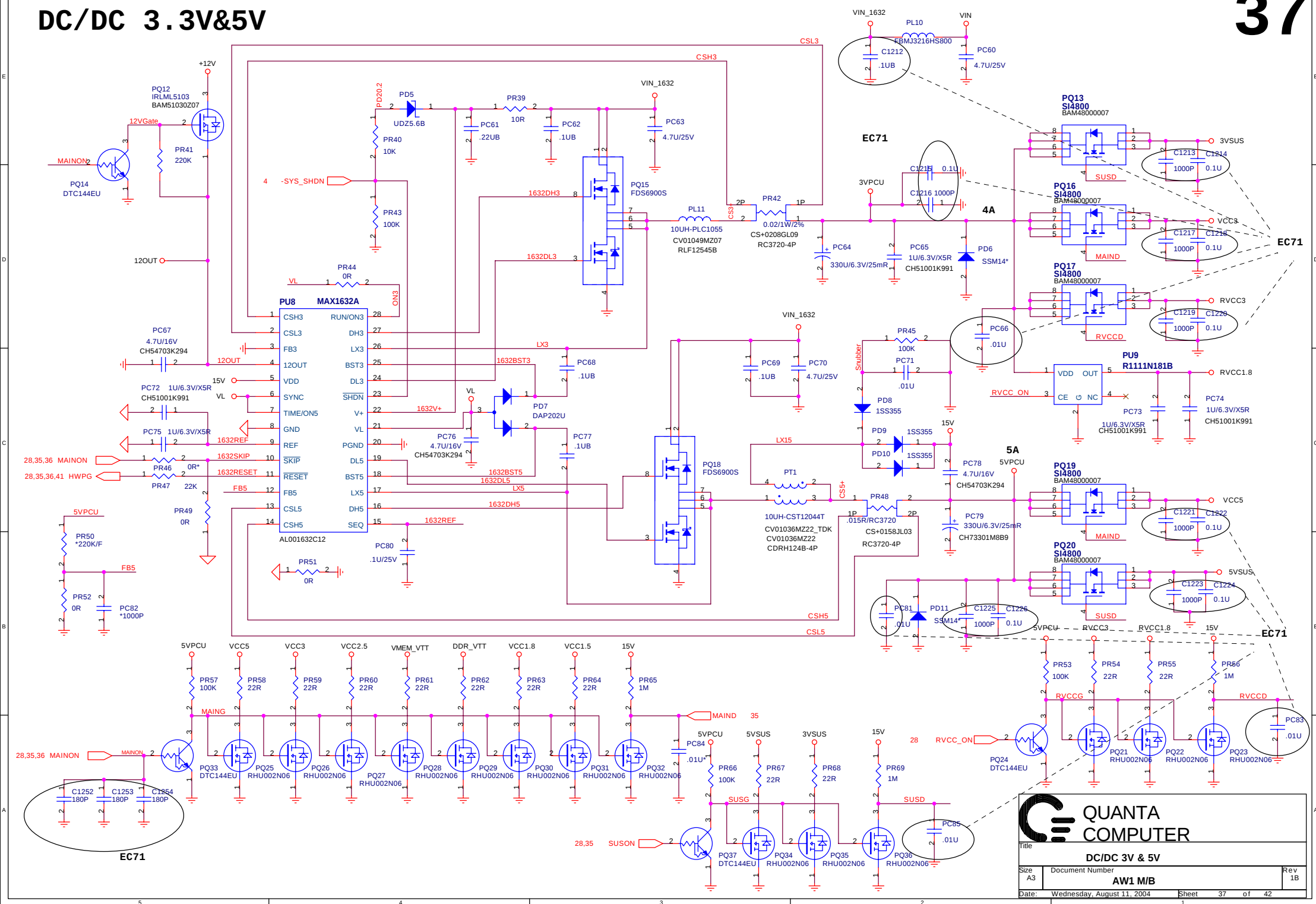
Date: Wednesday, August 11, 2004 Sheet: 35 of 42

VGA power & VRAM term.



DC/DC 3.3V&5V

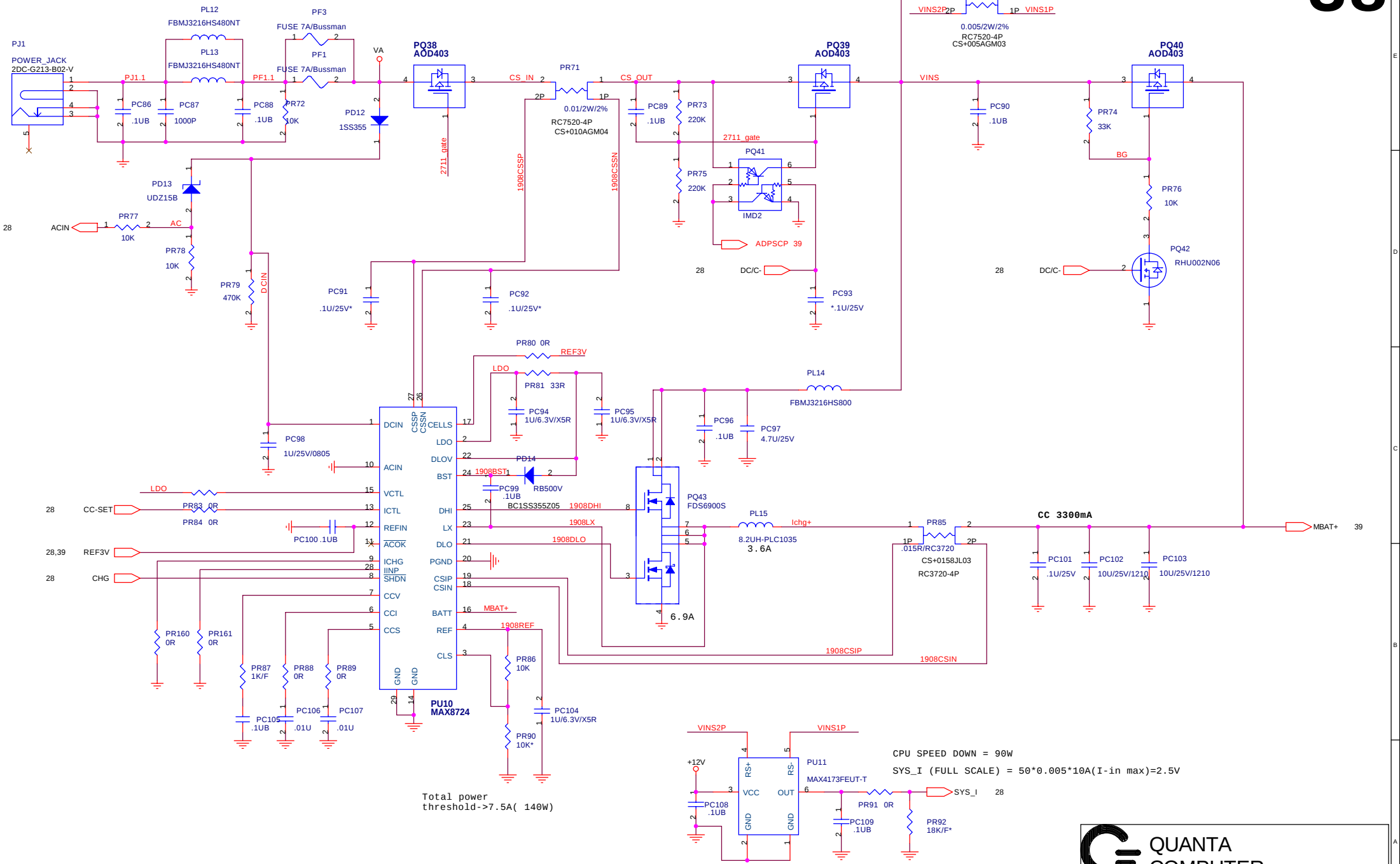
37



Battery Charger

150W/ 19V/ 8A

38



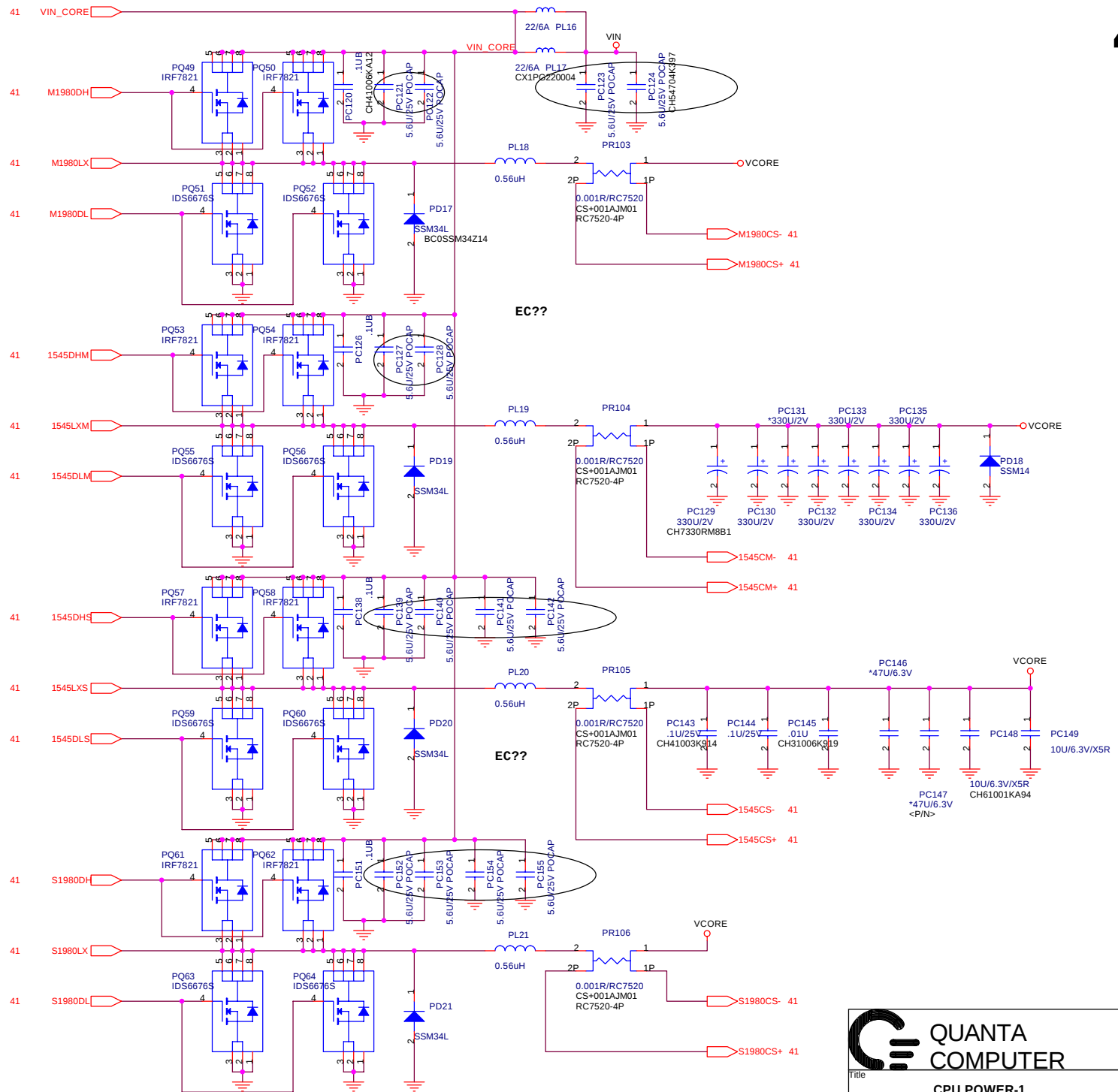
Total power threshold->7.5A(140W)

Only PWRON will enable this CKT.



QUANTA
COMPUTER

Title BATTERY CHARGER		
Size A3	Document Number AW1 M/B	Rev 1B
Date: Wednesday, August 11, 2004 Sheet 38 of 42		



EC??

EC??

THIS PART SHOULD NOT CONTAIN ANY SUBSTANCES WHICH ARE SPECIFIED IN SS-00259-1.



QUANTA

COMPUTER

Title

CPU POWER-1

Size	Document Number	Rev
Custm	AW1 M/B	1B

Date:

Wednesday, August 11, 2004

Sheet

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