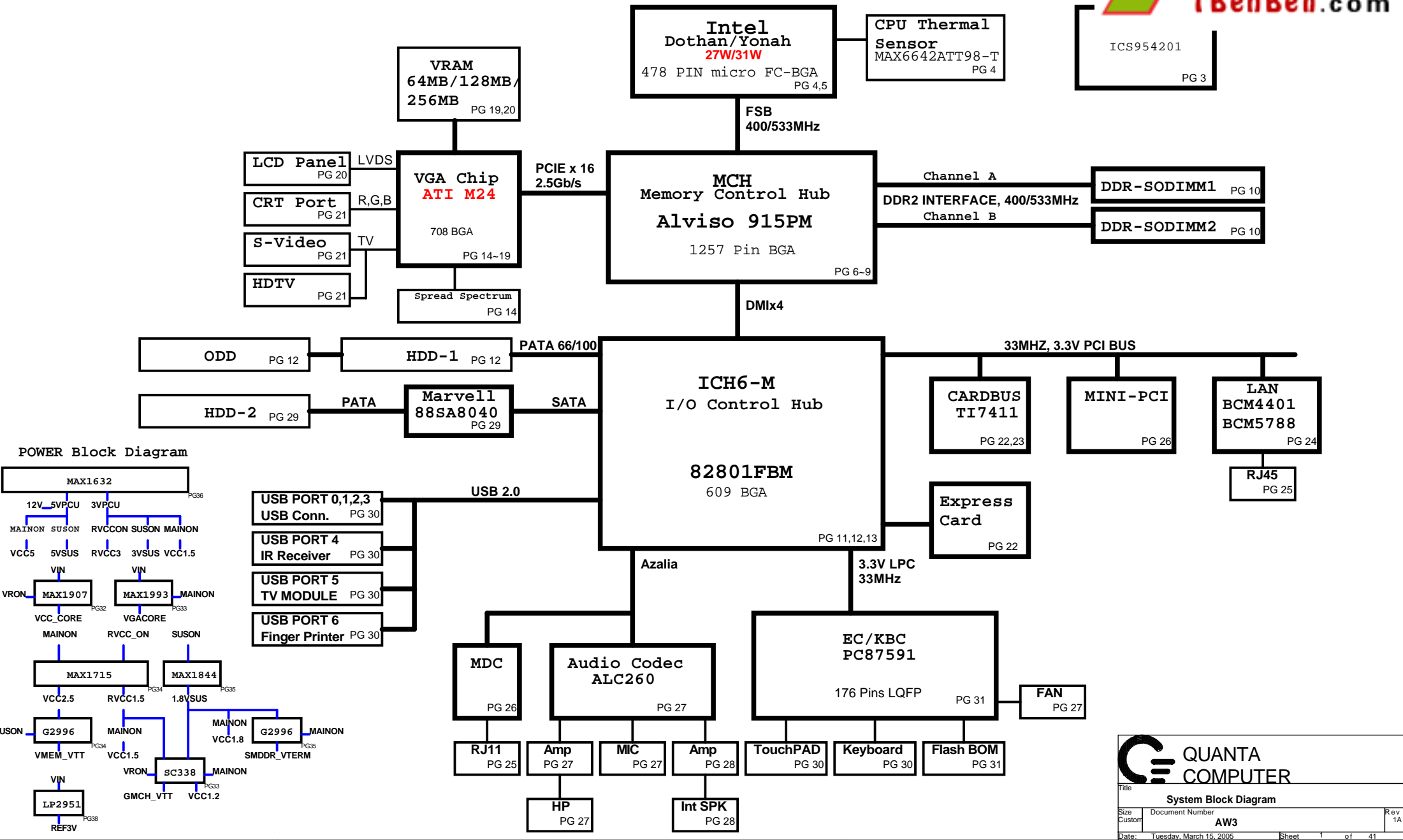


# AW3 Block Diagram

## Dothan+Alviso(915PM)+ICH6-M



**QUANTA COMPUTER**

Title: System Block Diagram

Size: Custom | Document Number: AW3 | Rev: 1A

Date: Tuesday, March 15, 2005 | Sheet: 1 of 41

## Voltage Rails

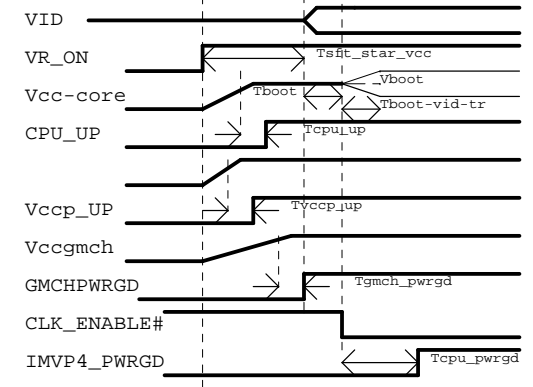
## Board Stack up Description

## Power On Sequencing Timing Diagram

Voltage Rails	ON S0-S2	ON S3	ON S4/S5	G3	Ctl Signal
VCC_CORE	X				VR_ON
GMCH_VTT	X				VR_ON
SMDDR_VREF	X				MAINON
VMEM_VTT	X				MAINON
VGA_CORE	X				MAINON
RVCC1.5	X	X	X		RVCC_ON
RVCC3	X	X	X		RVCCD
VCC1.2	X				VGA_P_REF
VCC1.5	X				MAINON
VCC1.8	X				MAINON
VCC2.5	X				MAINON
VCC3	X				MAIND
VCC5	X				MAIND
1.8VSUS	X	X			SUSON
3VSUS	X	X			SUSD
5VSUS	X	X			SUSD
3VPCU	X	X	X	X	VL
5VPCU	X	X	X	X	VL
9VPCU	X	X	X	X	5VPCU

### PCB Layers

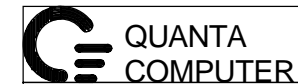
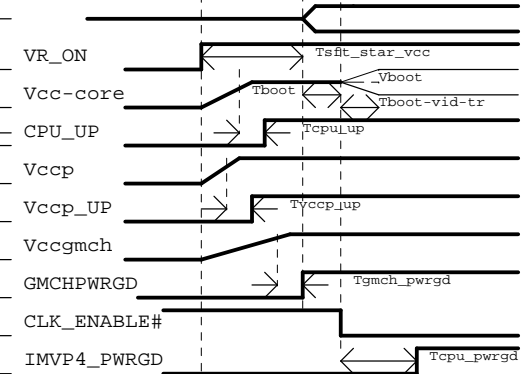
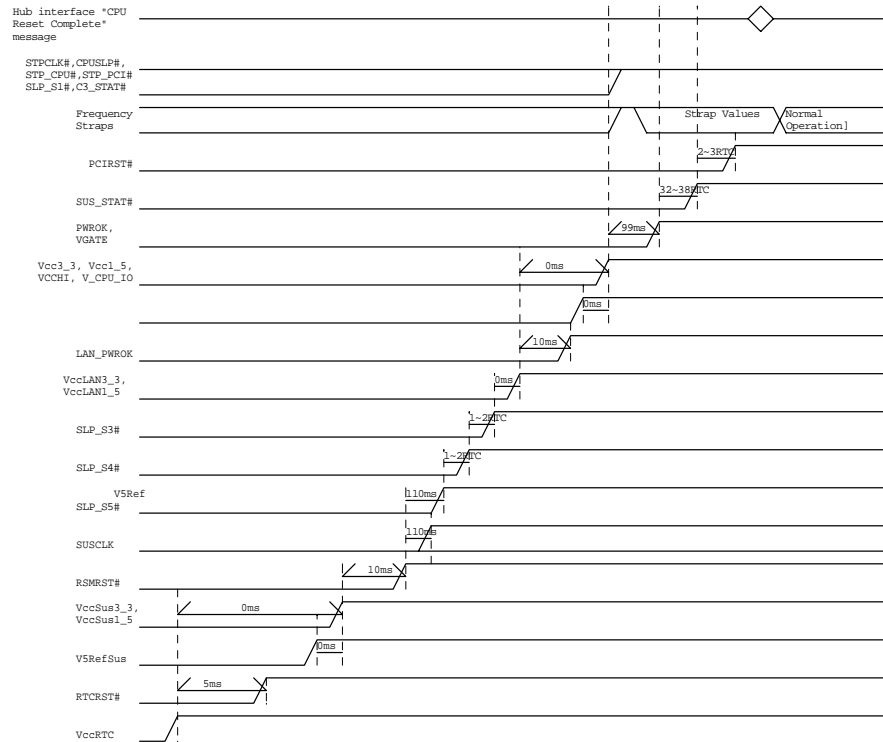
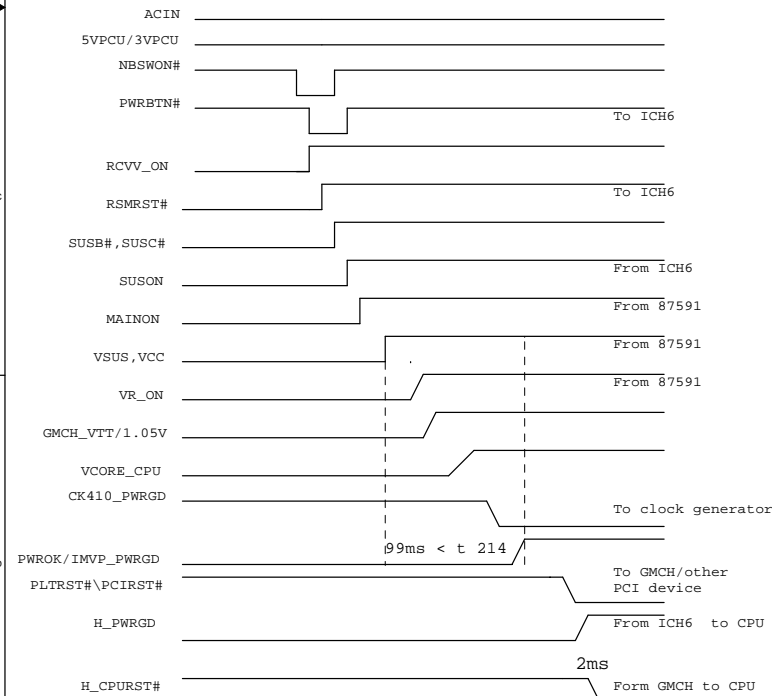
- Layer 1  TOP(FSB,DDR2,CLK,PCIE Component)
- Layer 2  Ground Plane
- Layer 3  IN1(FSB,CLOCK,DDR2,PEG,CLK)
- Layer 4  IN2(PCI,IDE,LPC)
- Layer 5  Power Plane
- Layer 6  BOTTOM, (Component,Other)



### ACIN POWER ON TIMING

### Power Sequencing and Reset Signal Timings

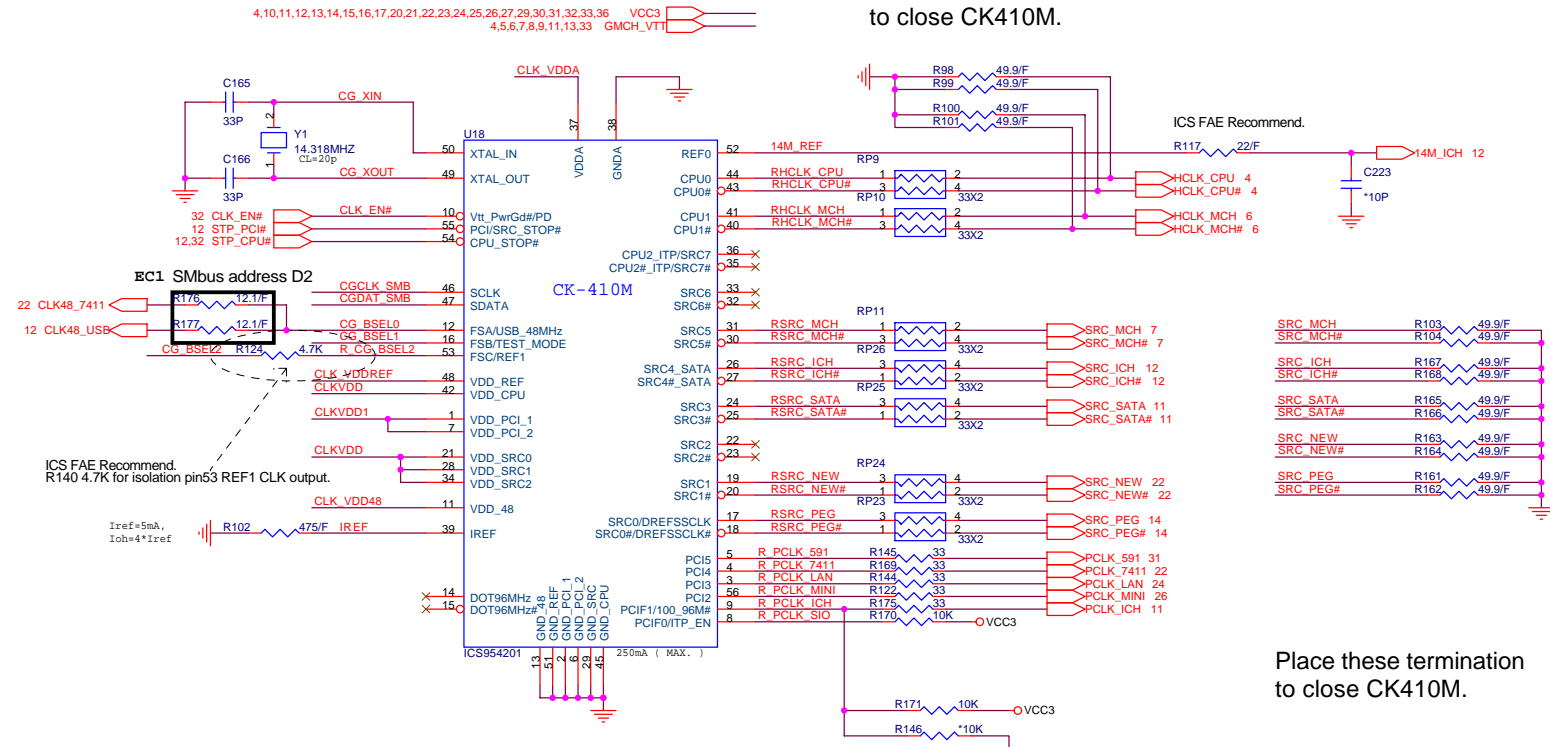
### CPU Power On Sequence



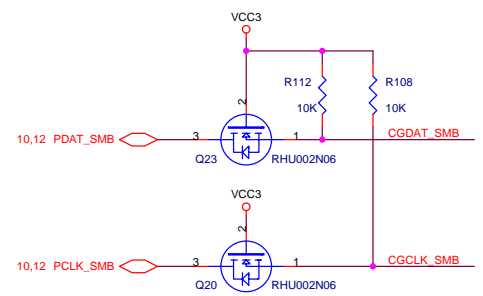
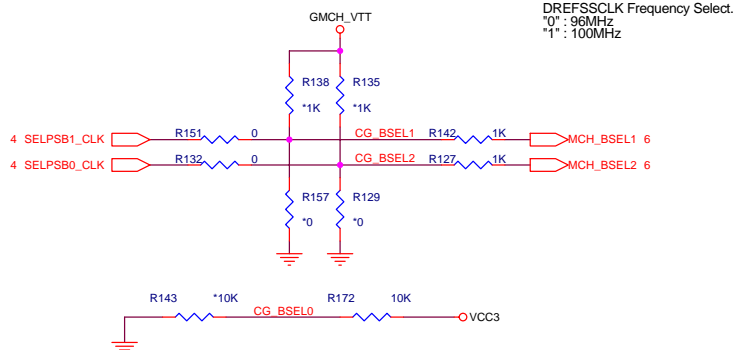
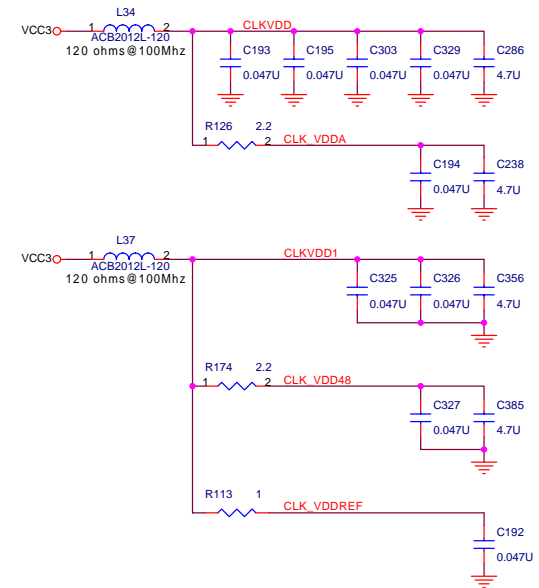
Title			System Block Diagram		
Size	Document Number				Rev
Custom	AW3				1A
Date:	Tuesday, March 15, 2005	Sheet	2	of	41

FSC	FSB	FSA	CPU	SRC	PCI
1	0	1	100	100	33
0	0	1	133	100	33 Default
0	1	1	166	100	33
0	1	0	200	100	33
0	0	0	266	100	33
1	0	0	333	100	33
1	1	0	400	100	33
1	1	1	RESERVED		

Place these termination to close CK410M.



Place these termination to close CK410M.



These are for backdrive issue

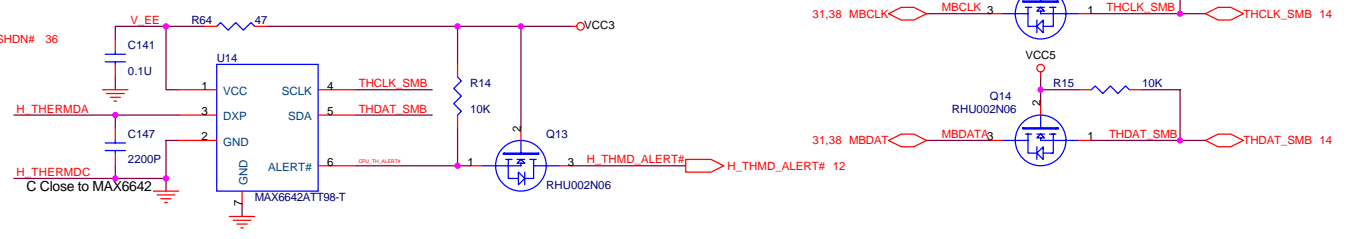
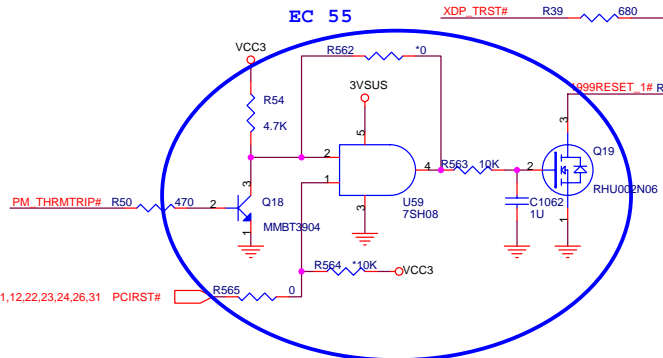
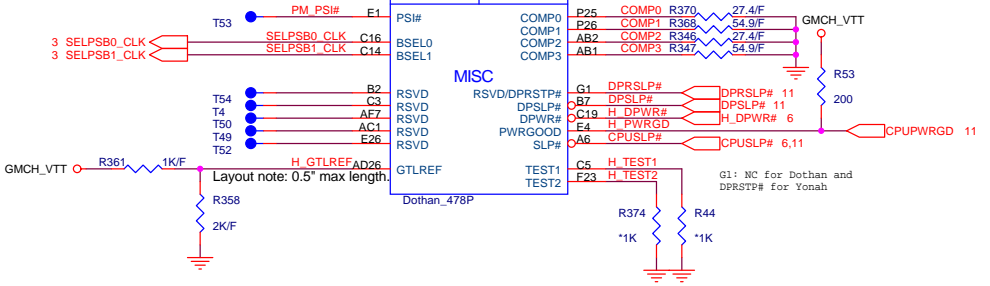
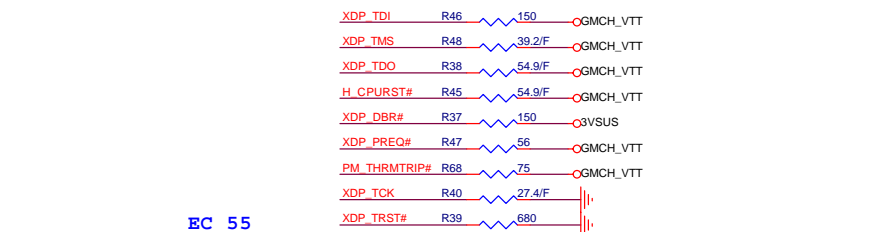
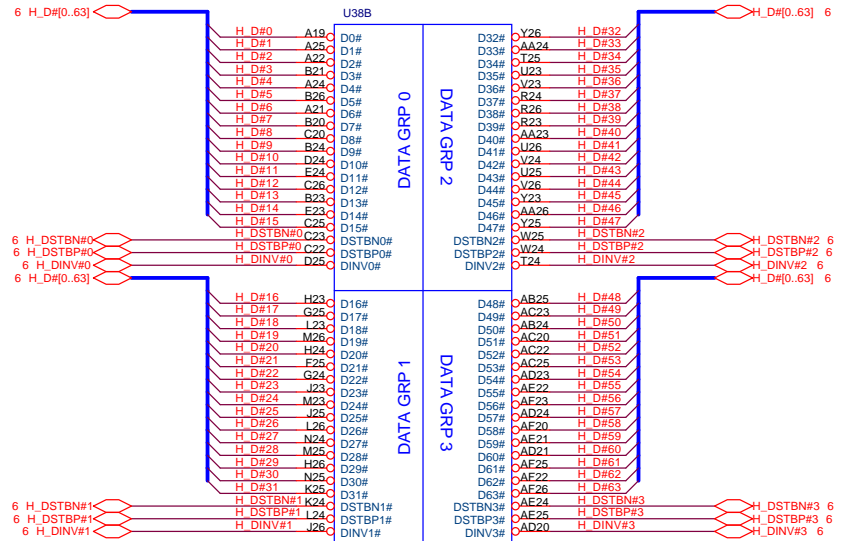
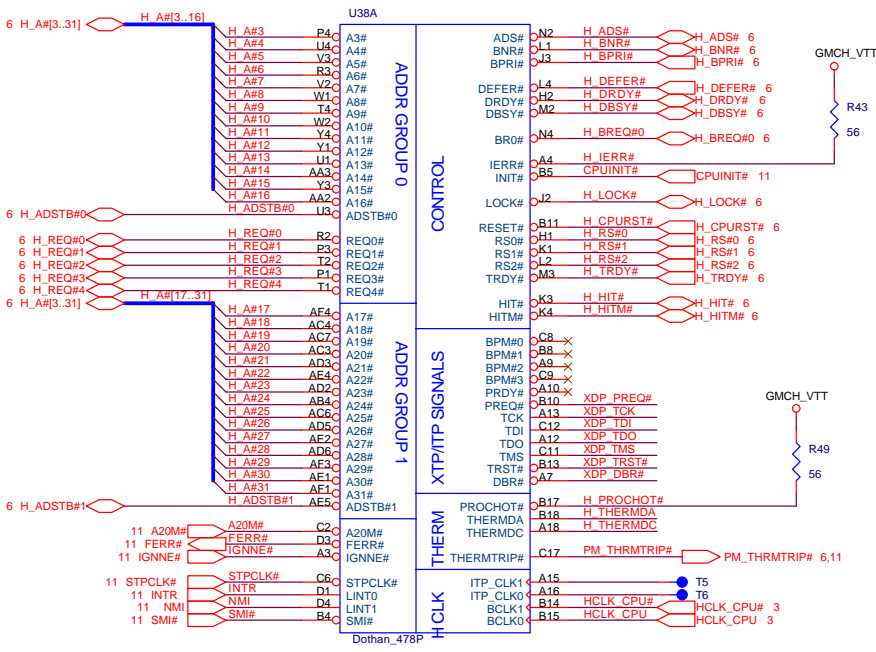
CPU Type	R132	R129	R151	R157
Dothan-A PSB400	X	X	X	✓
Dothan-A PSB533	X	✓	X	✓
Dothan-B (Default)	✓	X	✓	X
Pentium M 730-770				

**QUANTA  
COMPUTER**

Title: **System Block Diagram**

Size: Custom | Document Number: **AW3** | Rev: 1A

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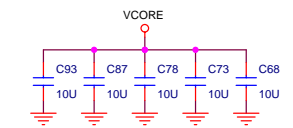
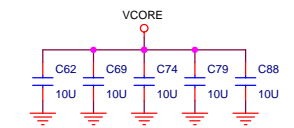
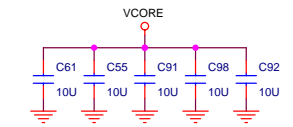
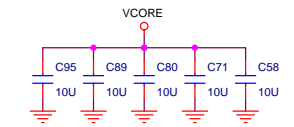
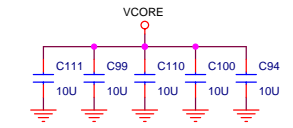
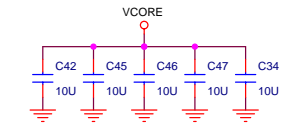
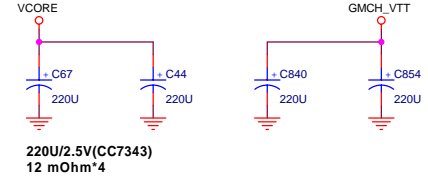
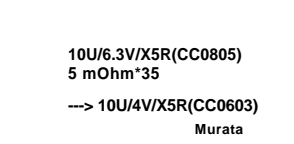
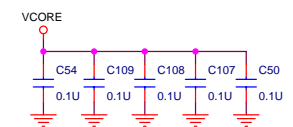
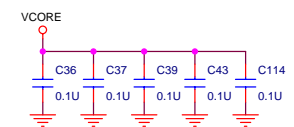
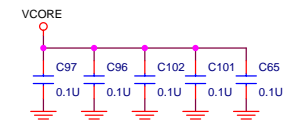
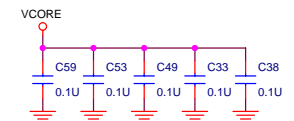
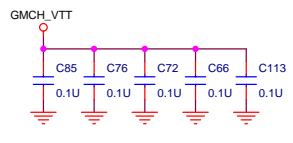
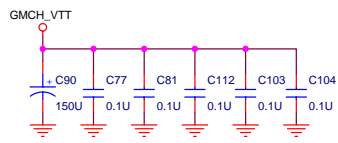
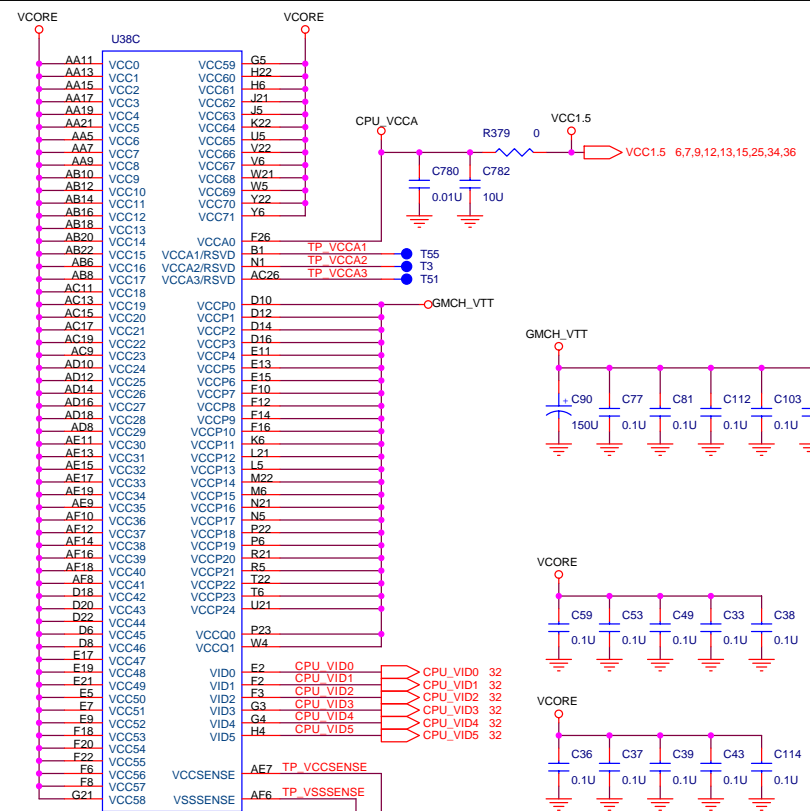


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Title: **System Block Diagram**

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CPU\_CORE  
GMCH\_VTT 3,4,6,7,8,9,11,13,33  
VCC1.5 6,7,9,12,13,15,25,34,36

A2	VSS0	VSS97	D13
A5	VSS1	VSS98	D15
A8	VSS2	VSS99	D17
A11	VSS3	VSS100	D19
A14	VSS4	VSS101	D21
A17	VSS5	VSS102	D23
A20	VSS6	VSS103	D26
A23	VSS7	VSS104	E3
A26	VSS8	VSS105	E6
AA1	VSS9	VSS106	E8
AA4	VSS10	VSS107	E10
AA6	VSS11	VSS108	E12
AA8	VSS12	VSS109	E14
AA10	VSS13	VSS110	E16
AA12	VSS14	VSS111	E18
AA14	VSS15	VSS112	E20
AA16	VSS16	VSS113	E22
AA18	VSS17	VSS114	E25
AA20	VSS18	VSS115	F4
AA22	VSS19	VSS116	F5
AA25	VSS20	VSS117	F7
AB3	VSS21	VSS118	F9
AB5	VSS22	VSS119	F11
AB7	VSS23	VSS120	F13
AB9	VSS24	VSS121	F15
AB11	VSS25	VSS122	F17
AB13	VSS26	VSS123	F19
AB15	VSS27	VSS124	F21
AB19	VSS28	VSS125	F24
AB21	VSS29	VSS126	G2
AB23	VSS30	VSS127	G6
AB25	VSS31	VSS128	G2
AB26	VSS32	VSS129	G26
AC2	VSS33	VSS130	G3
AC5	VSS34	VSS131	G26
AC8	VSS35	VSS132	H3
AC10	VSS36	VSS133	H5
AC12	VSS37	VSS134	H21
AC14	VSS38	VSS135	H25
AC16	VSS39	VSS136	J1
AC18	VSS40	VSS137	J4
AC21	VSS41	VSS138	J6
AC24	VSS42	VSS139	J22
AD1	VSS43	VSS140	J24
AD4	VSS44	VSS141	K2
AD7	VSS45	VSS142	K5
AD9	VSS46	VSS143	K21
AD11	VSS47	VSS144	K23
AD13	VSS48	VSS145	K26
AD15	VSS49	VSS146	L3
AD17	VSS50	VSS147	L6
AD19	VSS51	VSS148	L22
AD22	VSS52	VSS149	L25
AD25	VSS53	VSS150	M1
AE3	VSS54	VSS151	M4
AE6	VSS55	VSS152	M5
AE8	VSS56	VSS153	M21
AE10	VSS57	VSS154	M24
AE12	VSS58	VSS155	N3
AE14	VSS59	VSS156	N6
AE16	VSS60	VSS157	N22
AE18	VSS61	VSS158	N23
AE20	VSS62	VSS159	N26
AE23	VSS63	VSS160	P2
AE26	VSS64	VSS161	P5
AF2	VSS65	VSS162	P21
AF5	VSS66	VSS163	P24
AF9	VSS67	VSS164	R1
AF11	VSS68	VSS165	R4
AF13	VSS69	VSS166	R6
AF15	VSS70	VSS167	R22
AF17	VSS71	VSS168	R25
AF19	VSS72	VSS169	T3
AF21	VSS73	VSS170	T5
AF24	VSS74	VSS171	T21
B3	VSS75	VSS172	T23
B6	VSS76	VSS173	T26
B9	VSS77	VSS174	U2
B12	VSS78	VSS175	U6
B16	VSS79	VSS176	U22
B19	VSS80	VSS177	U24
B22	VSS81	VSS178	V1
B25	VSS82	VSS179	V4
C1	VSS83	VSS180	V5
C4	VSS84	VSS181	V21
C7	VSS85	VSS182	V25
C10	VSS86	VSS183	W3
C13	VSS87	VSS184	W6
C15	VSS88	VSS185	W22
C18	VSS89	VSS186	W23
C21	VSS90	VSS187	W26
C24	VSS91	VSS188	Y2
D2	VSS92	VSS189	Y5
D5	VSS93	VSS190	Y21
D7	VSS94	VSS191	Y24
D9	VSS95		
D11	VSS96		

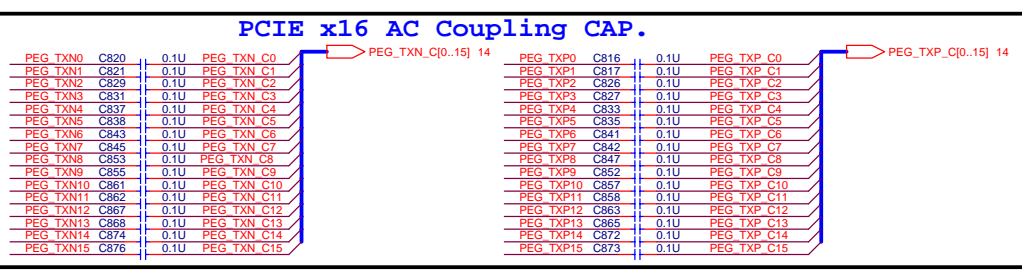
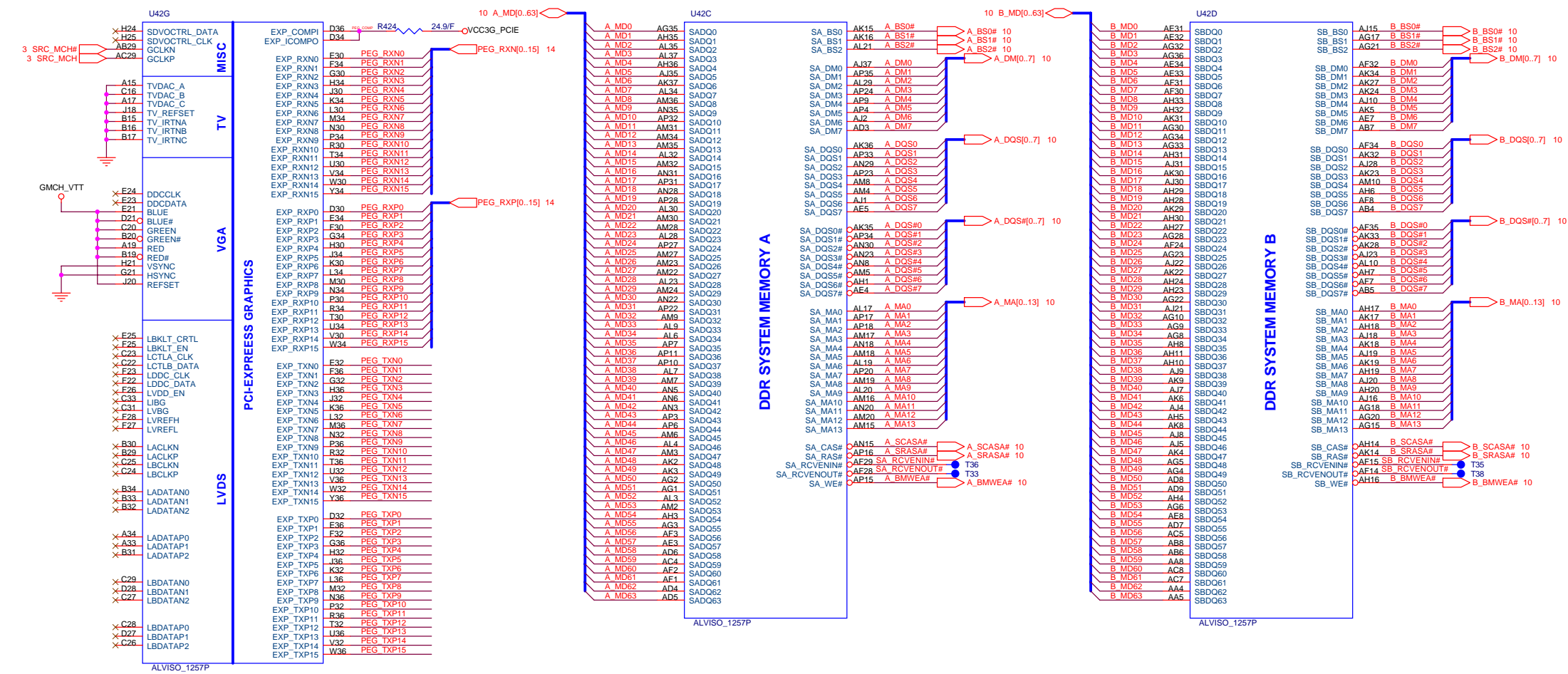
QUANTA  
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Title: System Block Diagram

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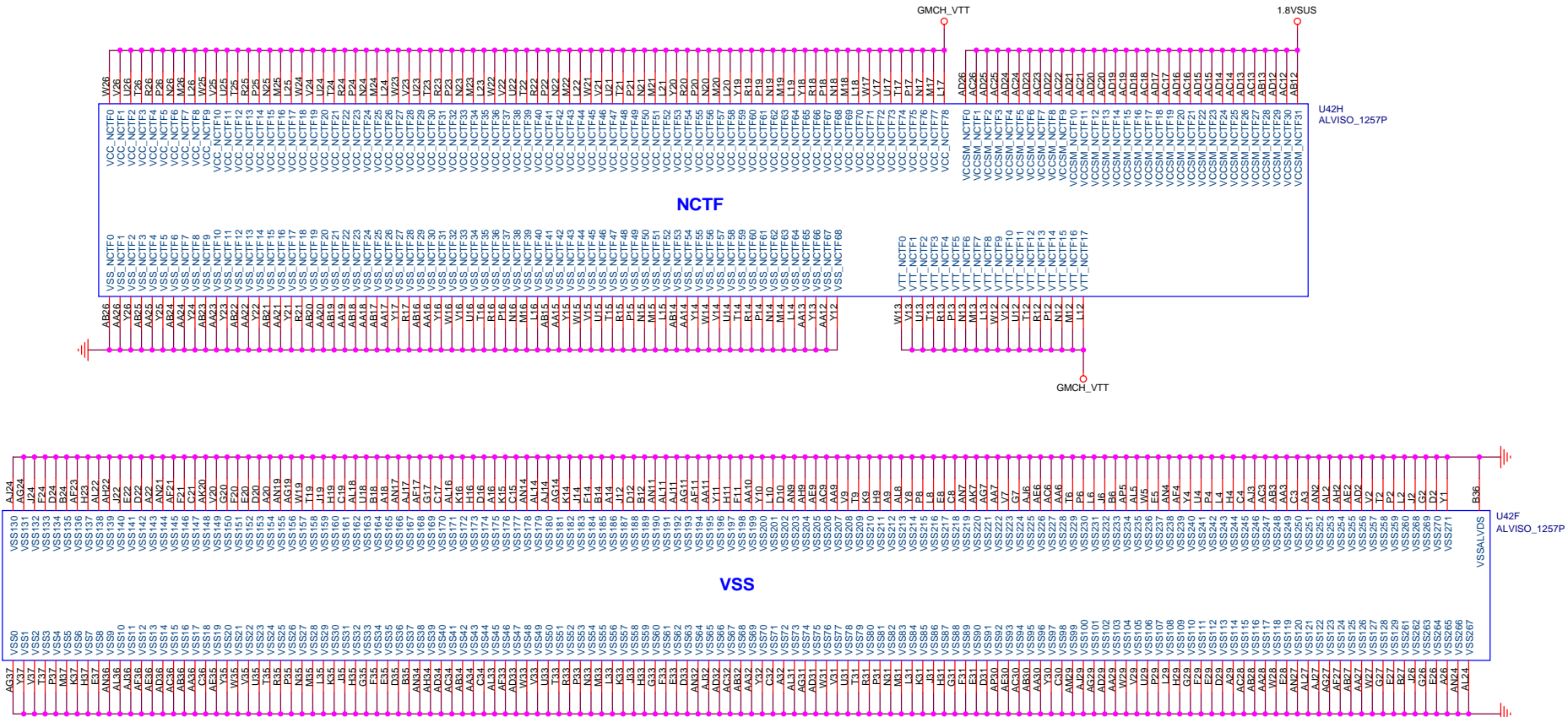




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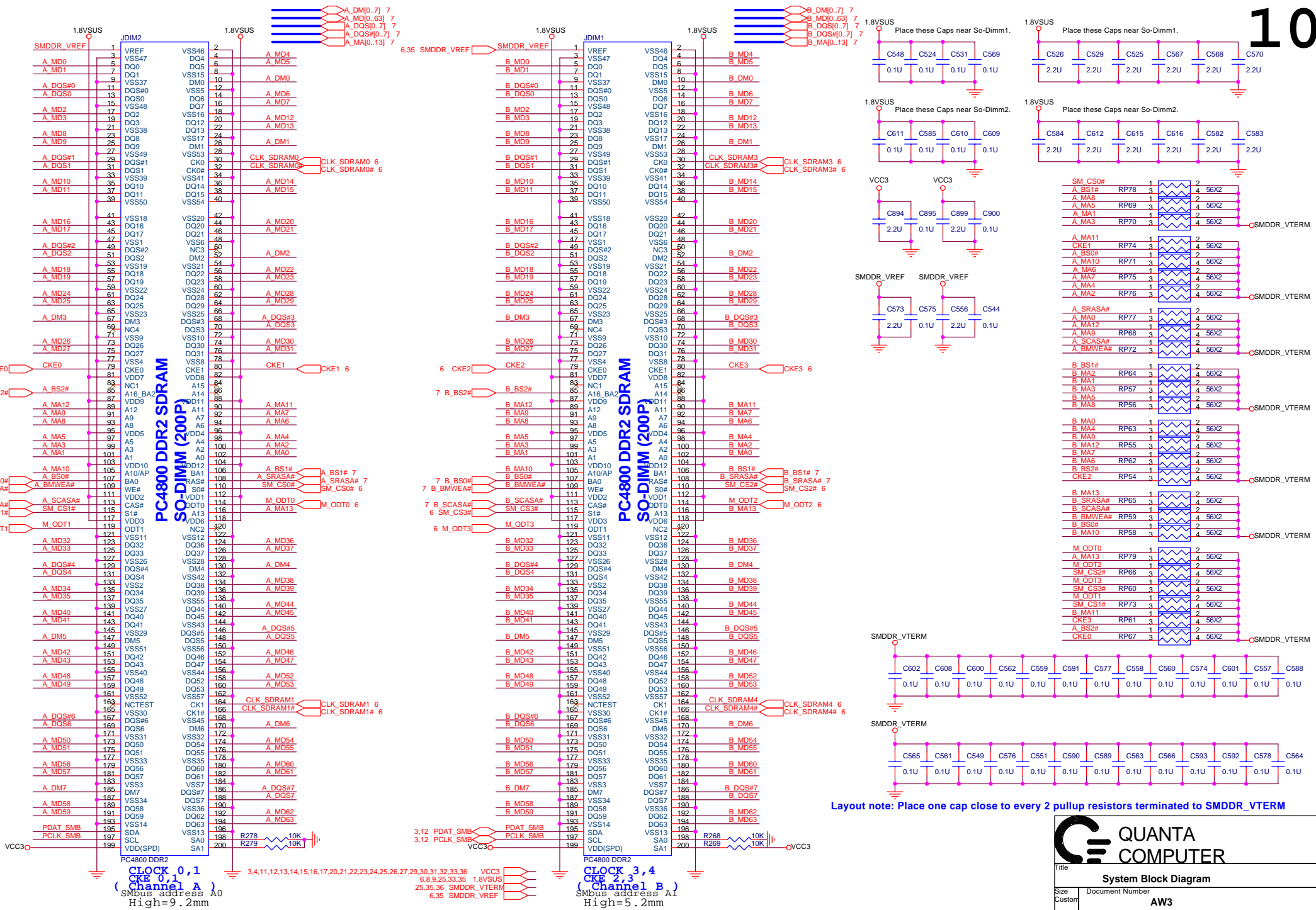
System Block Diagram

Title	System Block Diagram		Rev	1A
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Custom				
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Layout note: Place one cap close to every 2 pullup resistors terminated to SMDDR\_VTERM

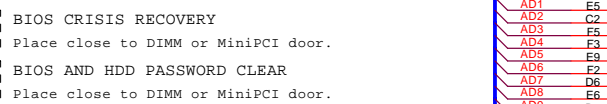
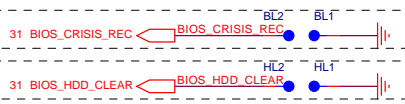
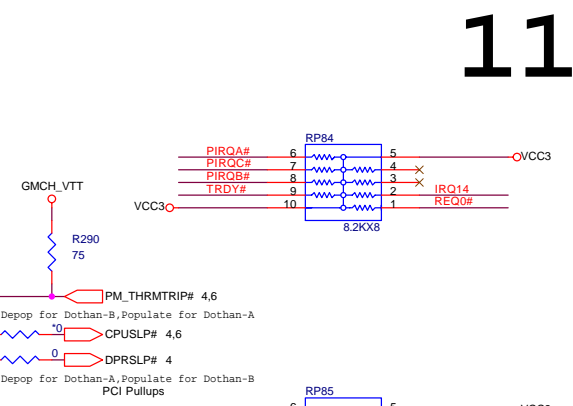
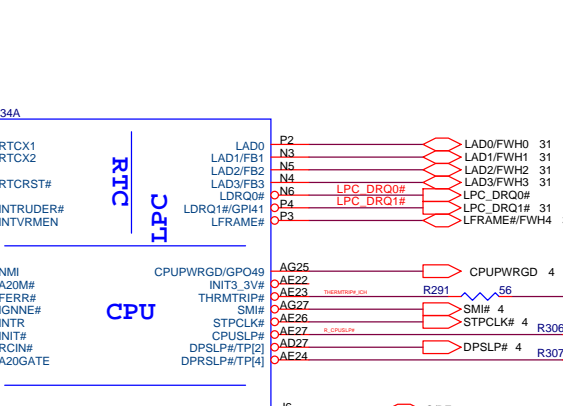
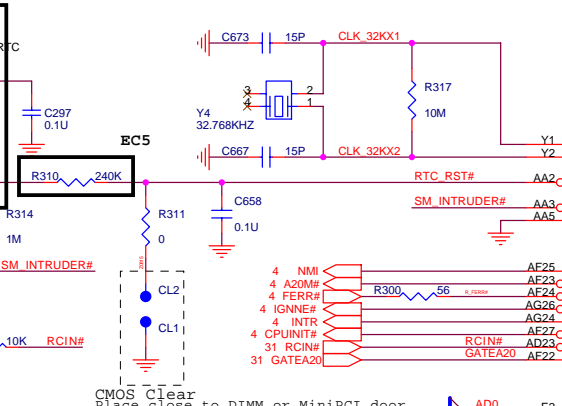
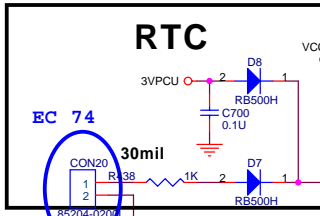
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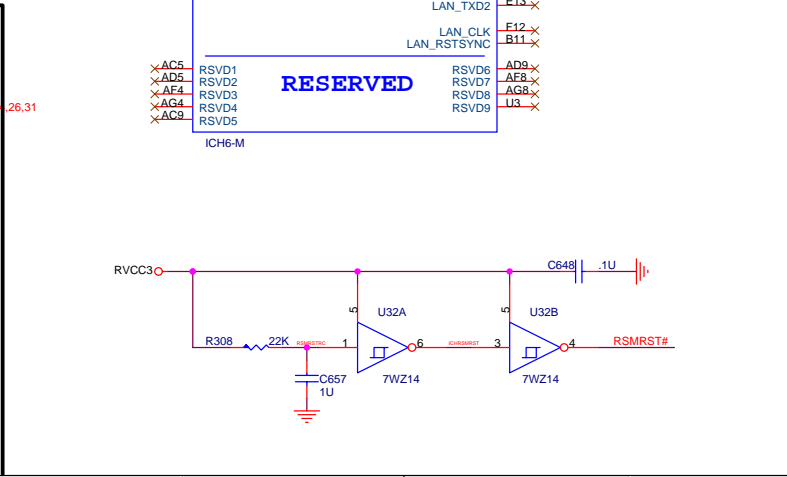
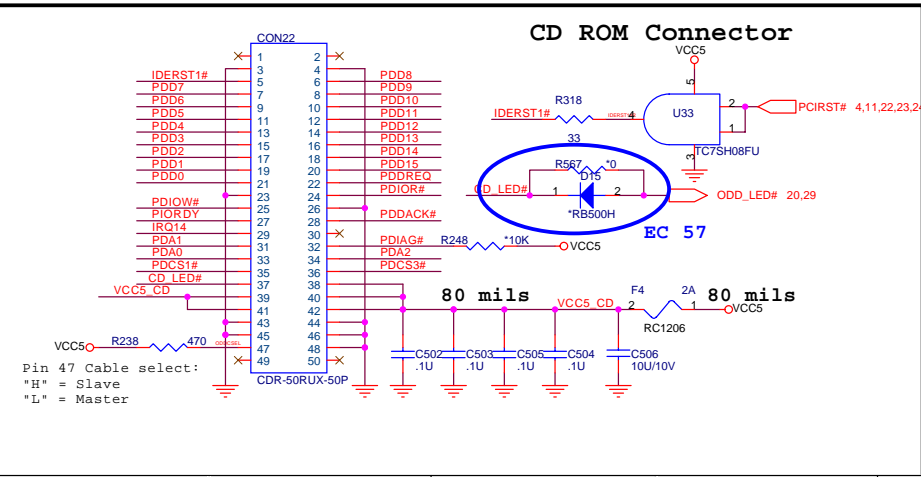
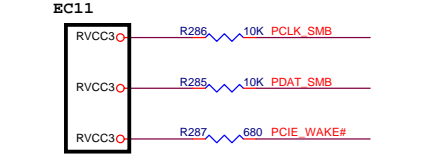
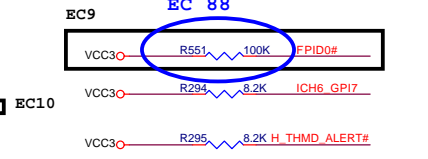
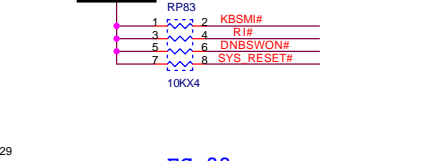
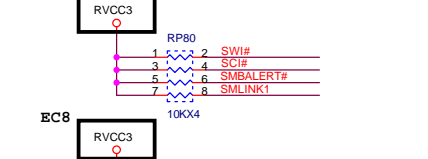
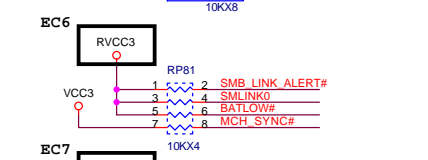
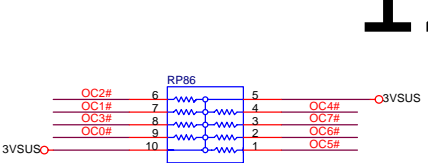
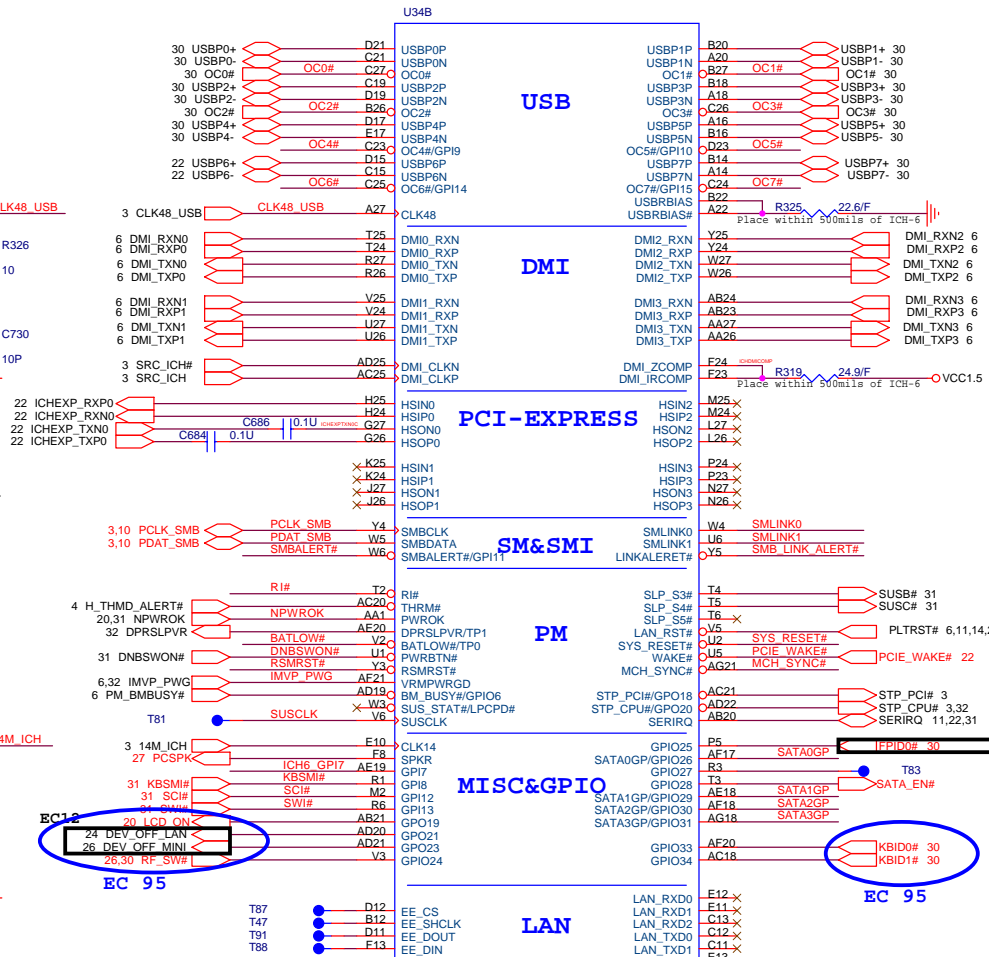
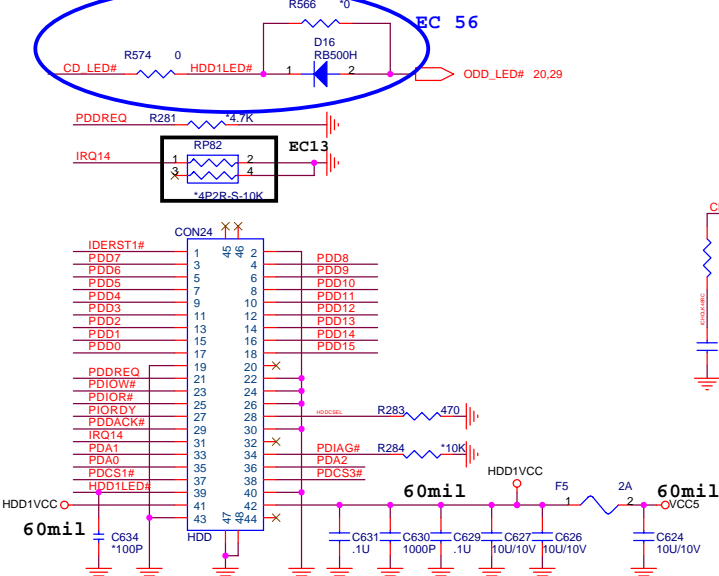
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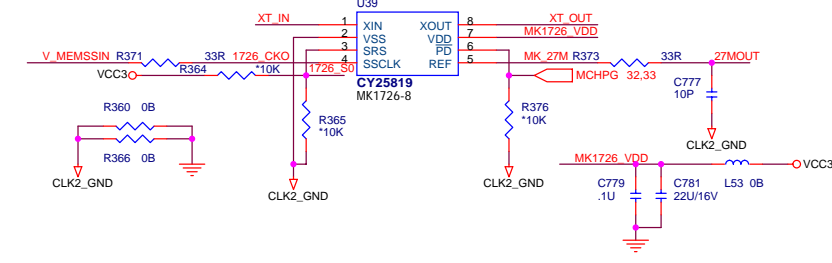
Primary HDD Connector



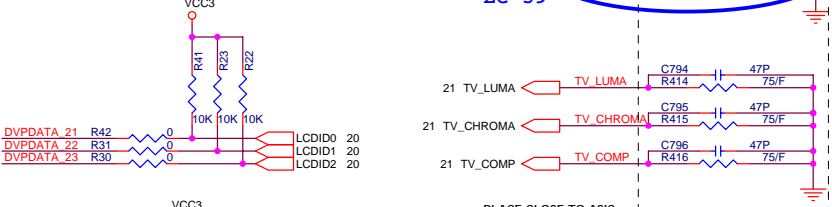
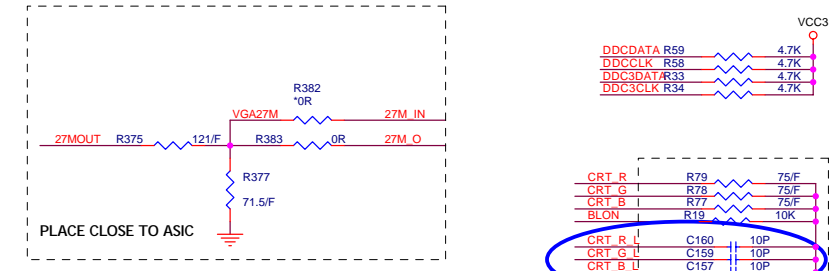
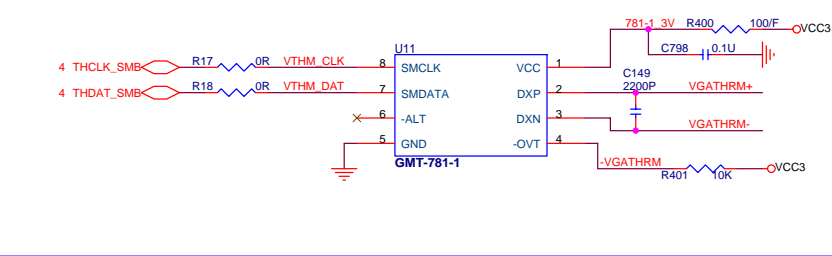


### MEMORY CLOCK SPREAD SPECTRUM

SRS= 1 DOWN -2.5%  
0 DOWN -1.8%  
M DOWN -0.6%



### Thermal Sensor



**QUANTA COMPUTER**

Title: System Block Diagram

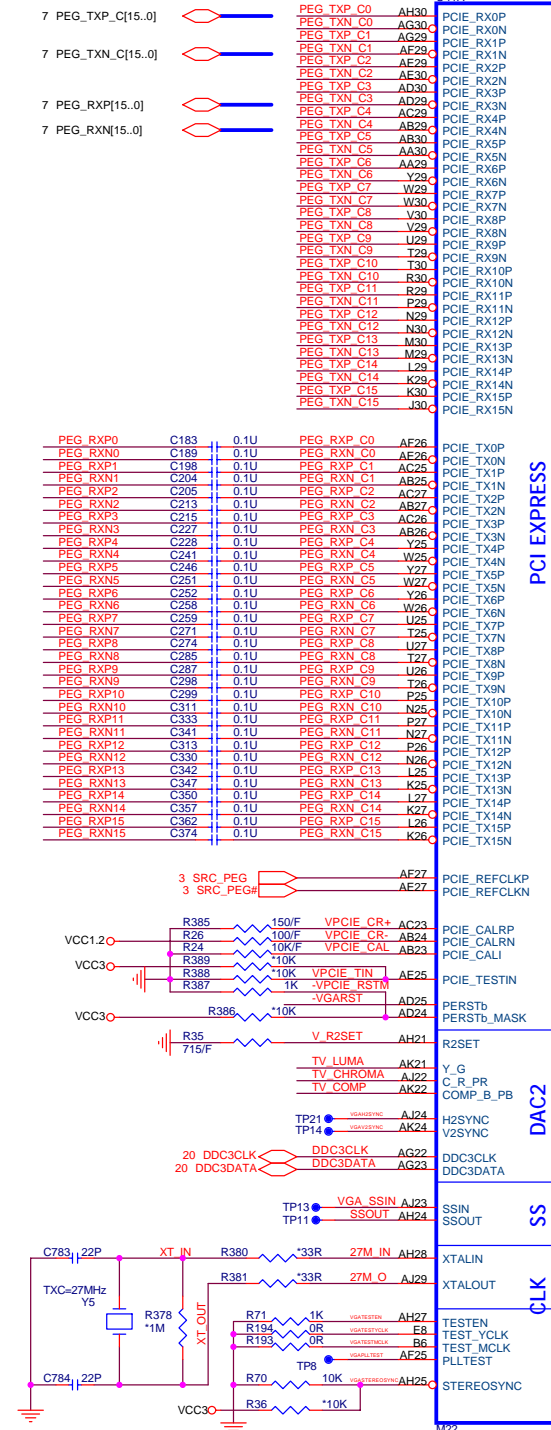
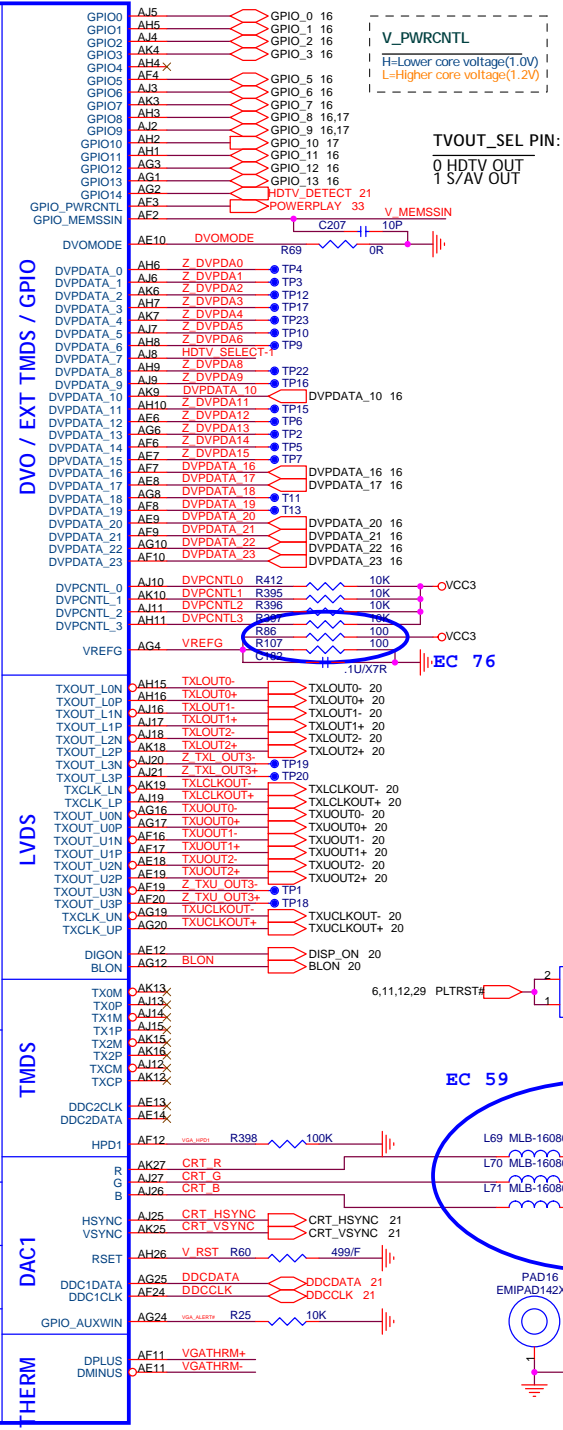
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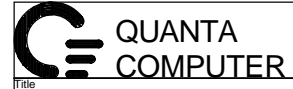
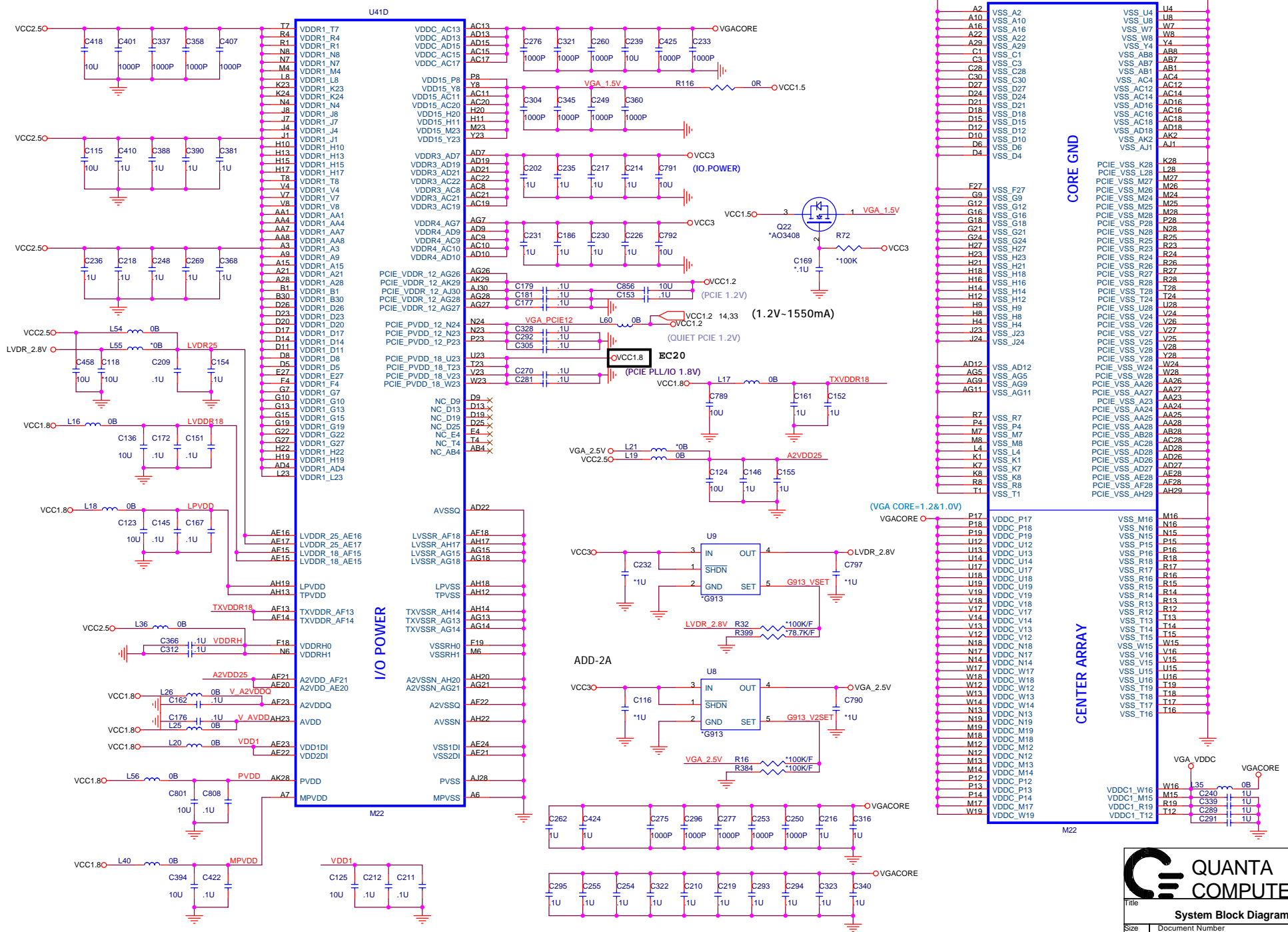
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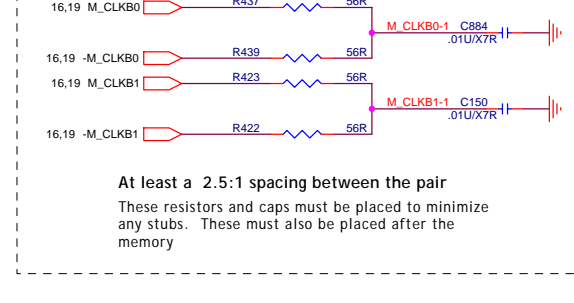
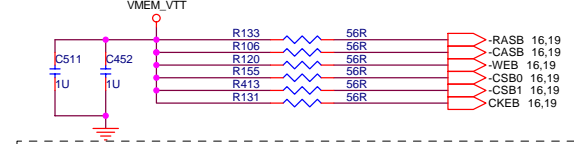
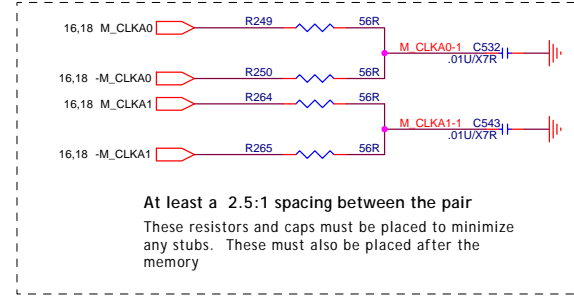
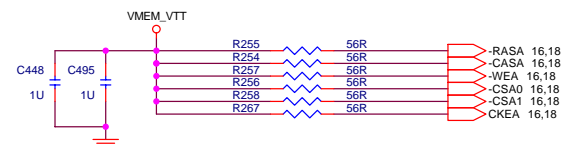
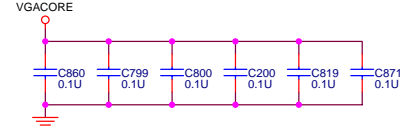
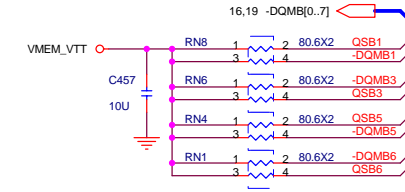
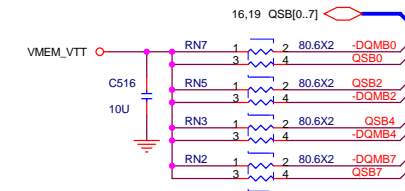
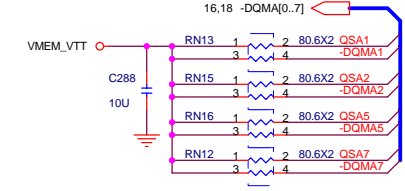
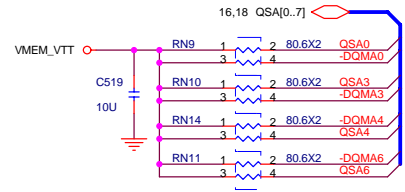
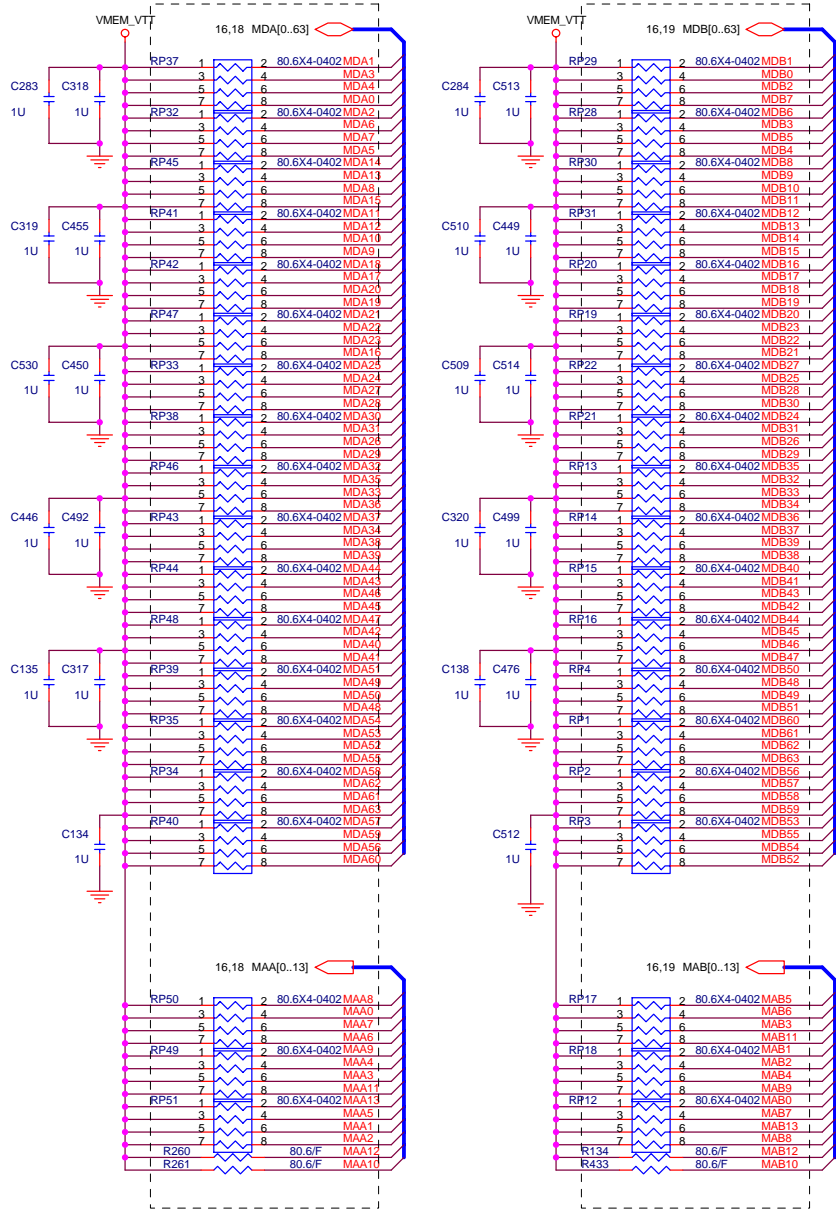




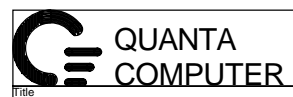
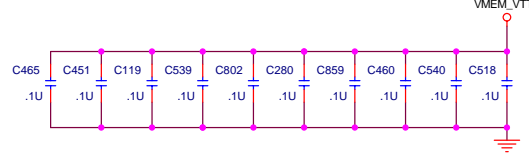
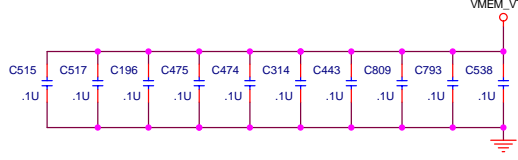
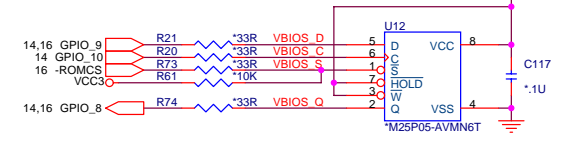
Title			System Block Diagram		
Size	Document Number				Rev
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Date:	Tuesday, March 15, 2005	Sheet	15	of	41



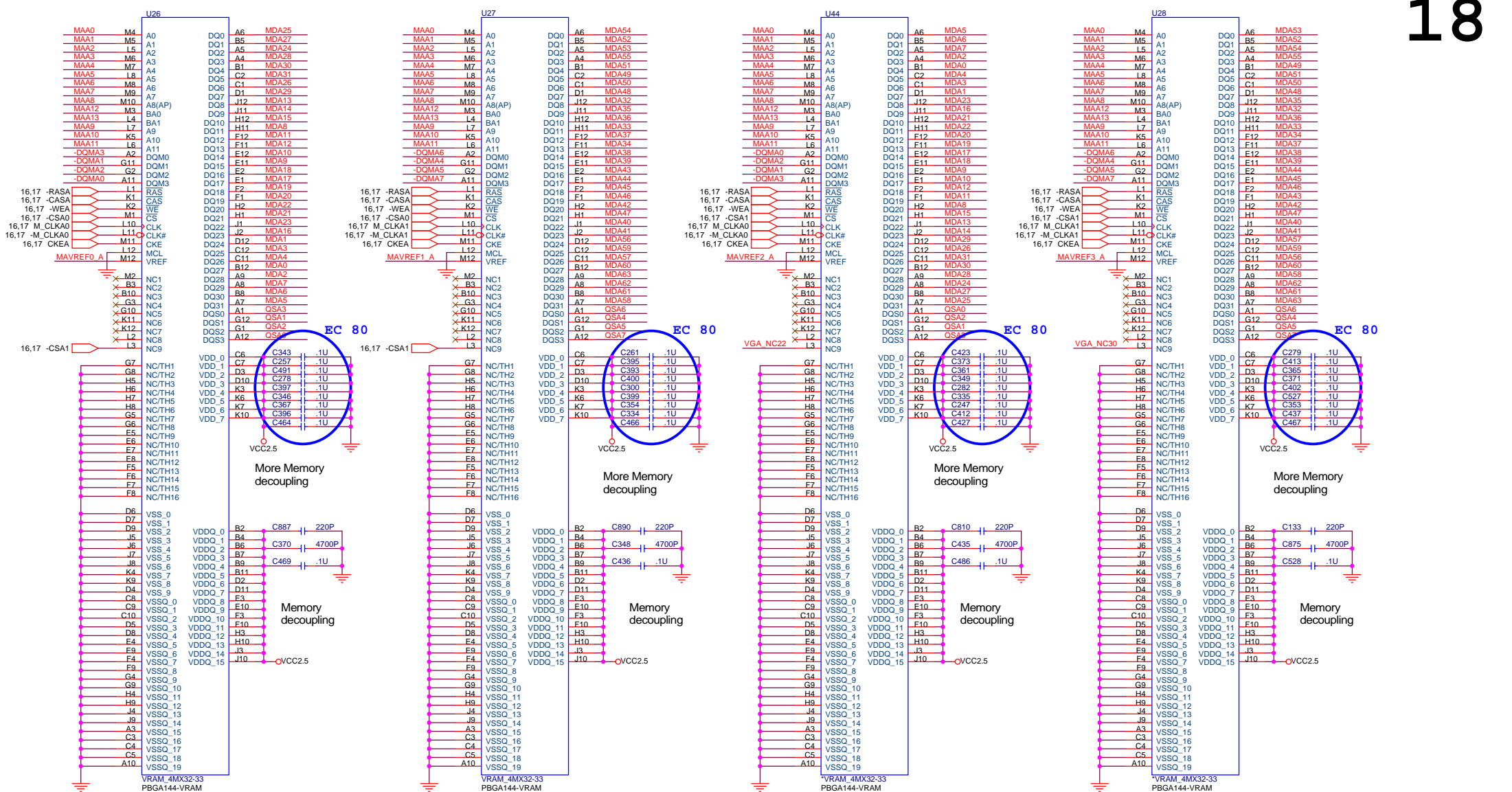




## SERIAL ROM

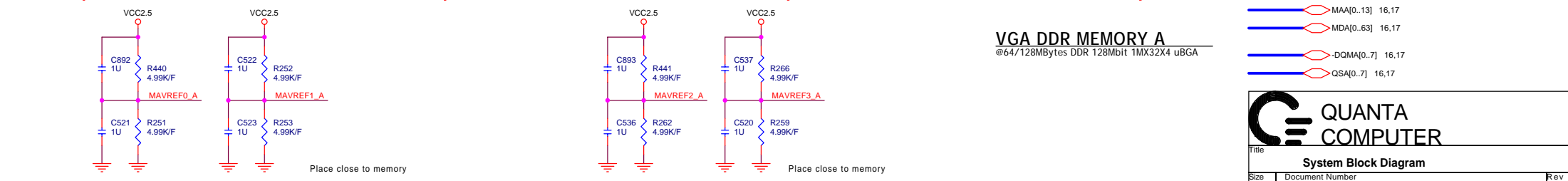


Title			System Block Diagram		
Size	Document Number		AW3		Rev
Custom					1A
Date:	Tuesday, March 15, 2005	Sheet	17	of	41



**VGA DDR MEMORY A**

@64/128MBytes DDR 128Mbit 1MX32X4 uBGA

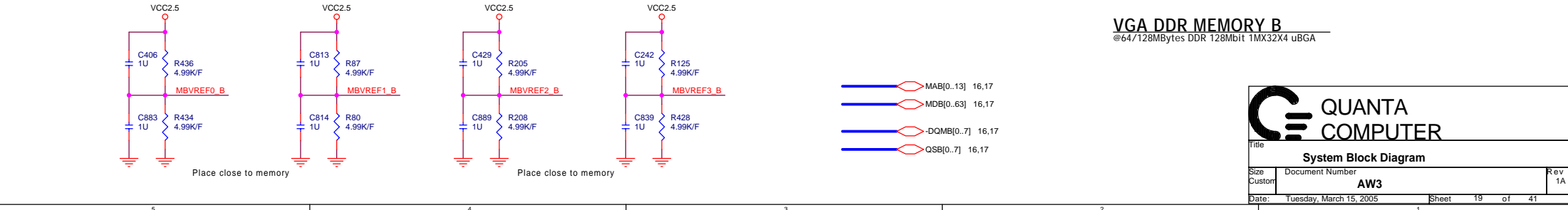
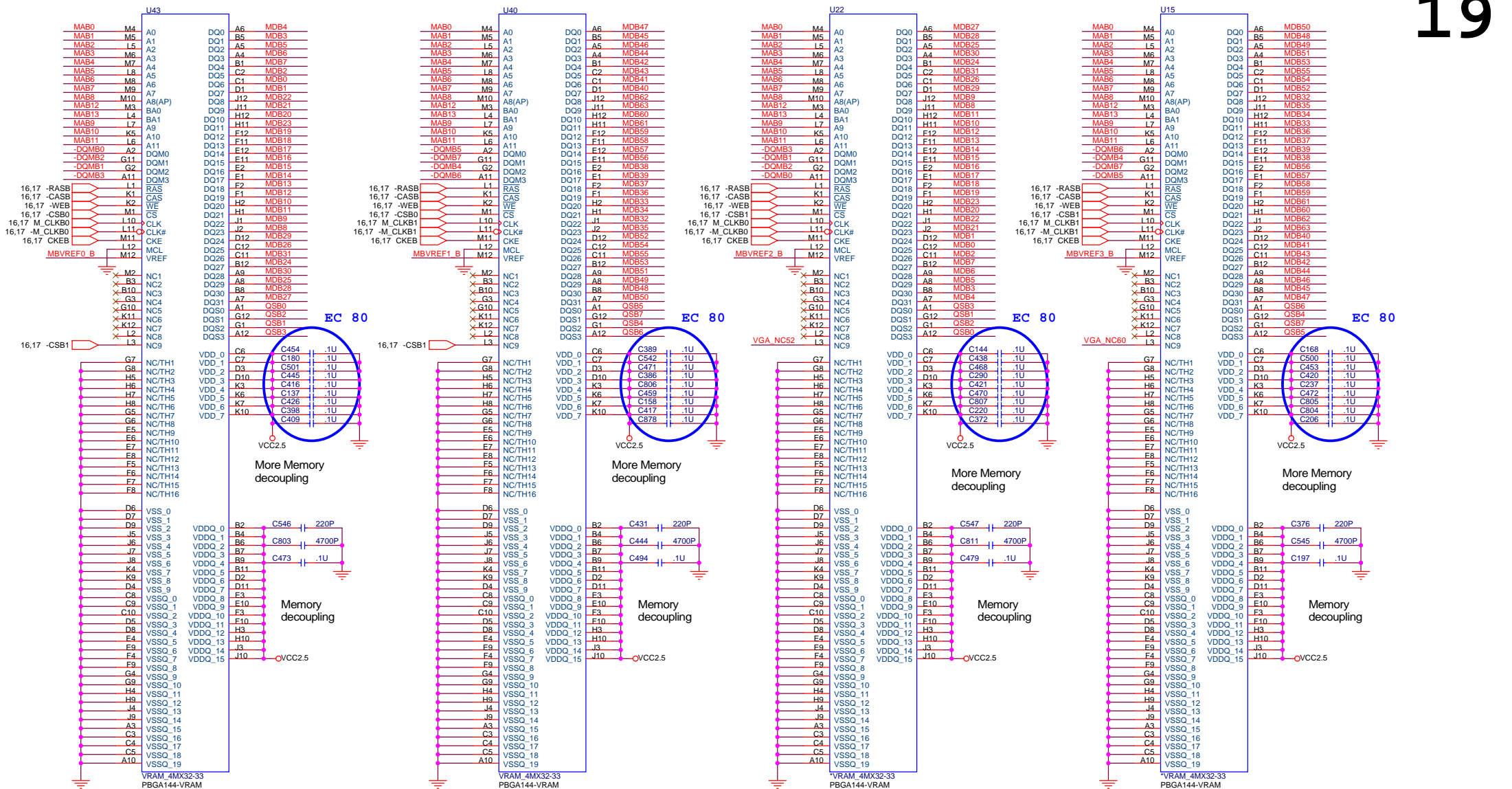


**QUANTA COMPUTER**

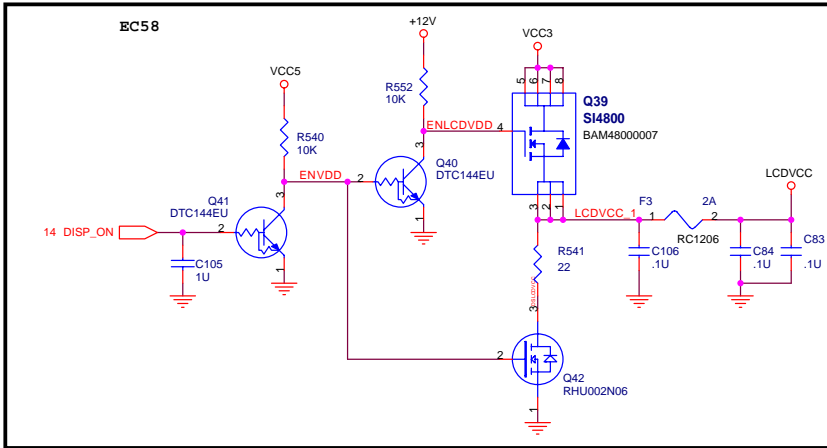
Title: **System Block Diagram**

Size	Document Number	Rev
Custom	<b>AW3</b>	1A

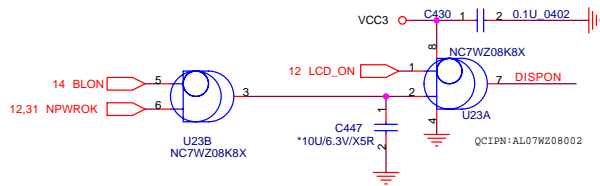
Date: Tuesday, March 15, 2005 Sheet 18 of 41



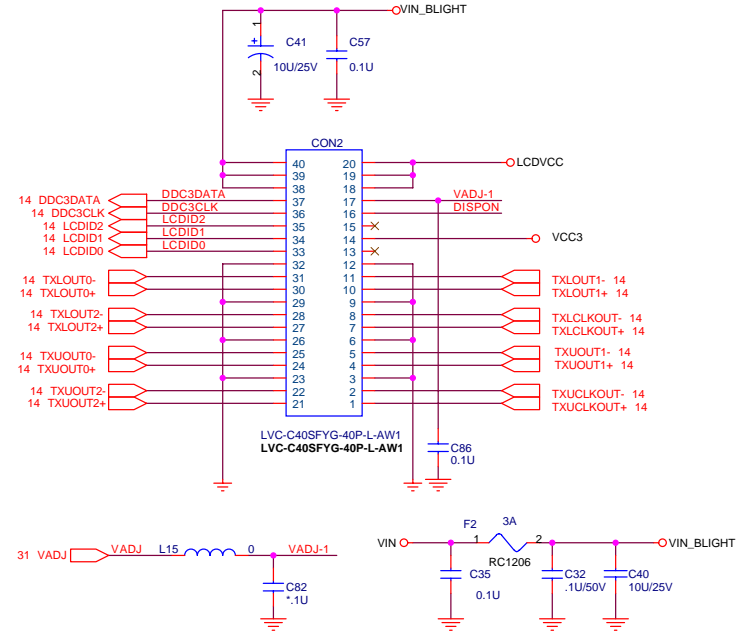
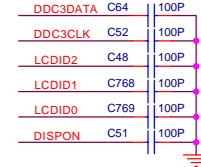
# PANEL VCC CONTROL



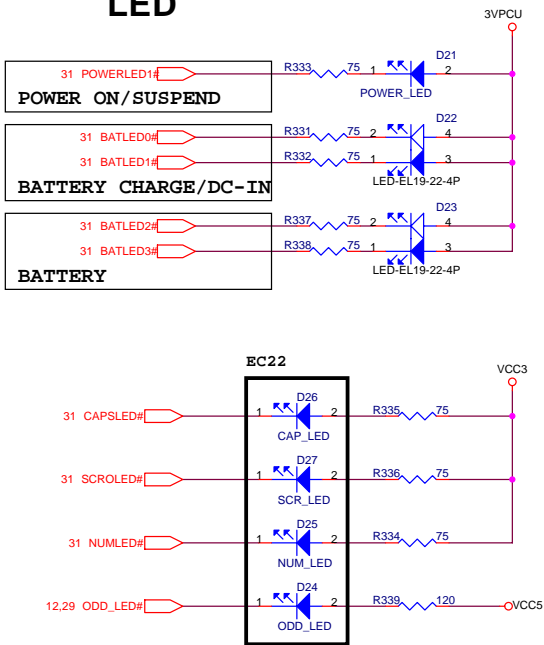
# BACKLIGHT CONTROL



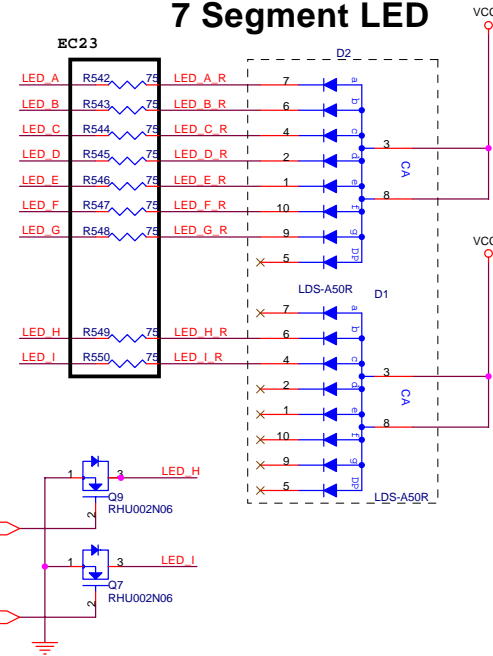
# LCD CONNECTOR



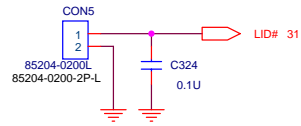
# LED



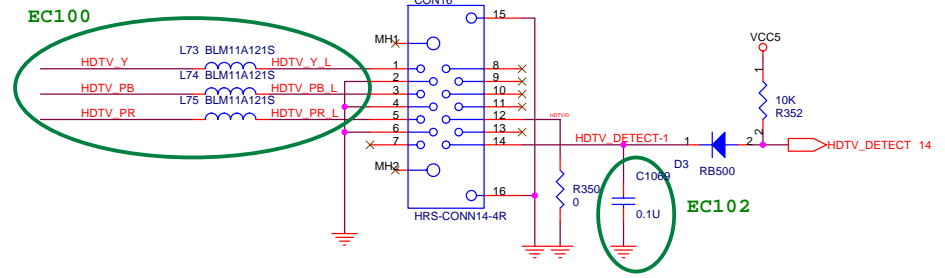
# 7 Segment LED



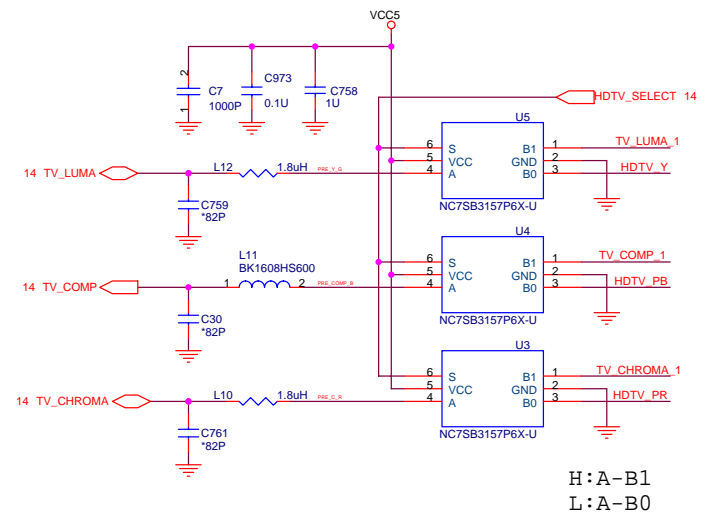
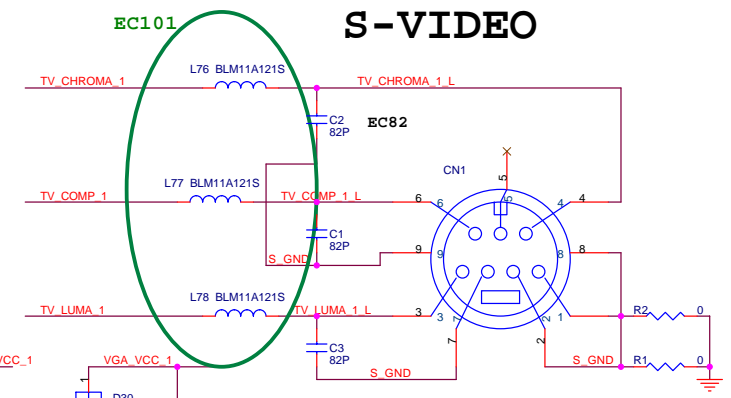
# LID



HDTV

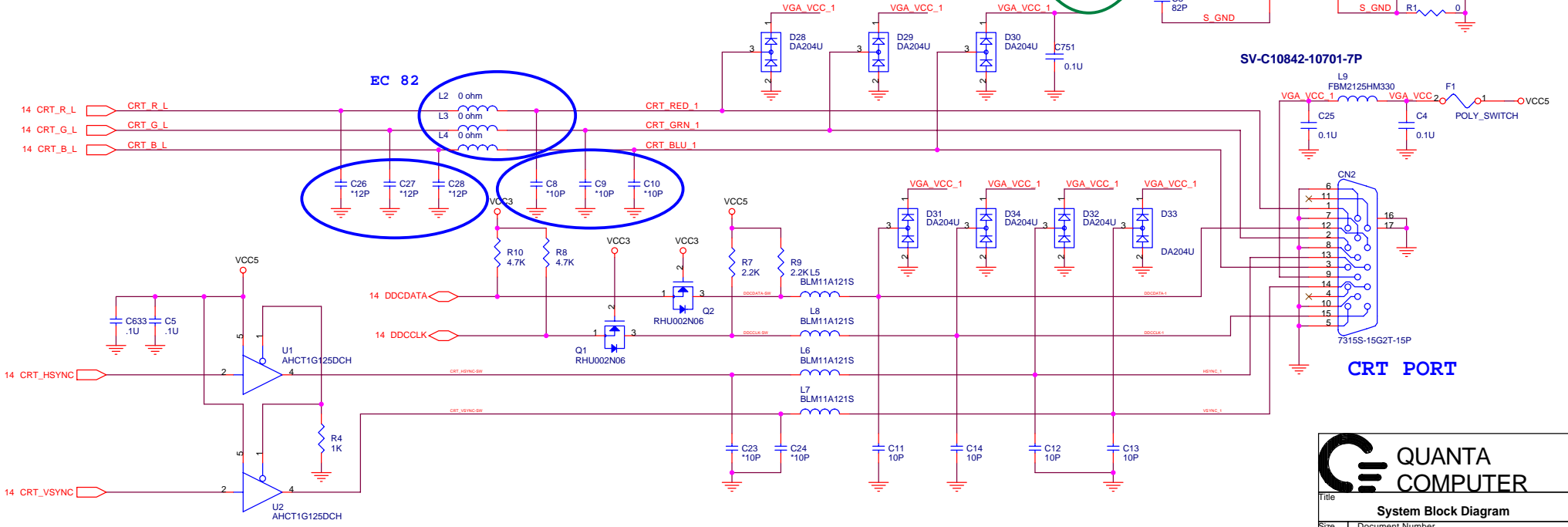


S-VIDEO



H:A-B1  
L:A-B0

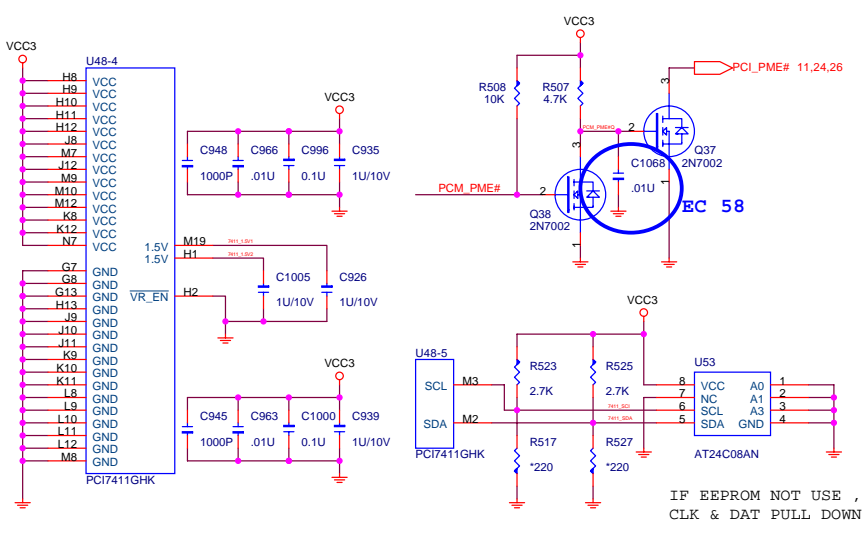
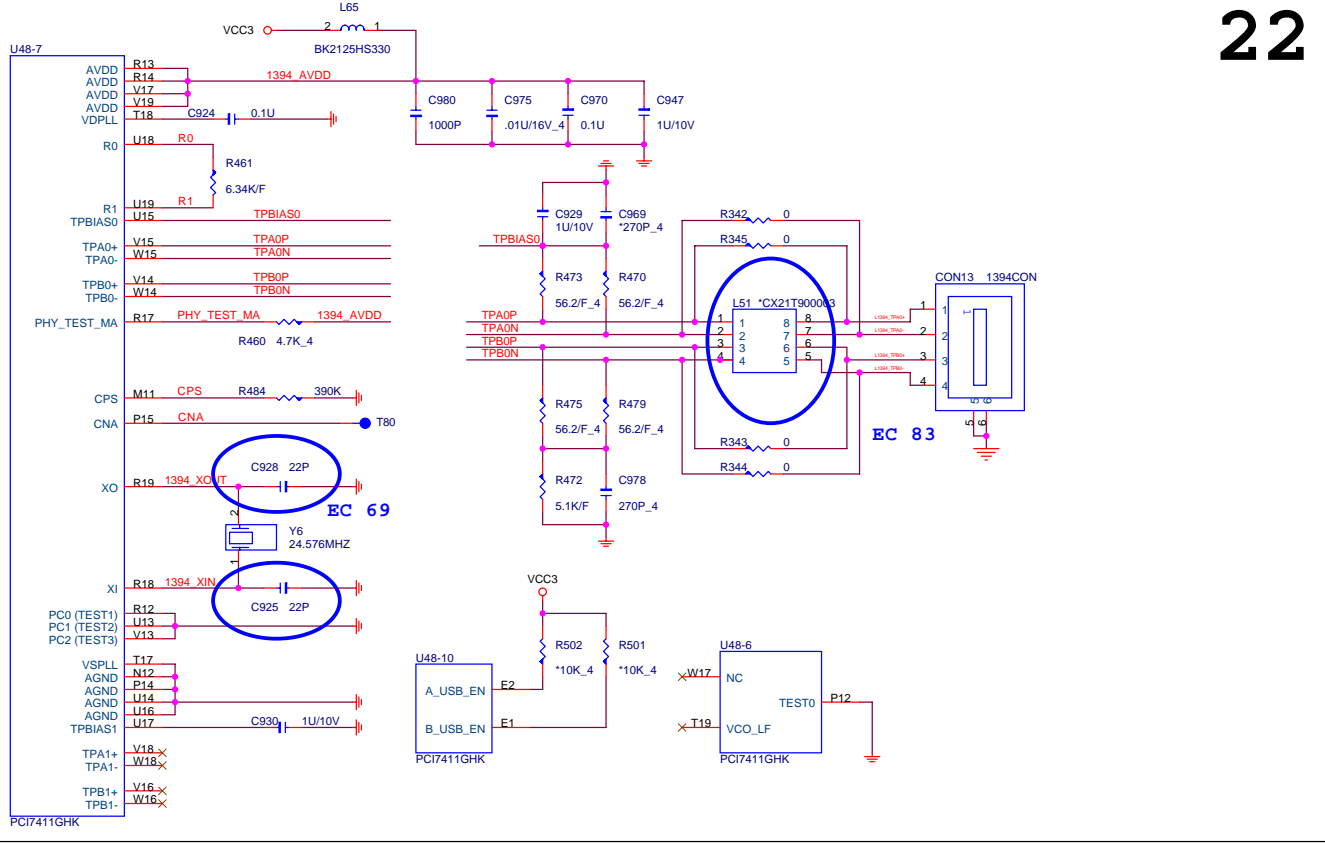
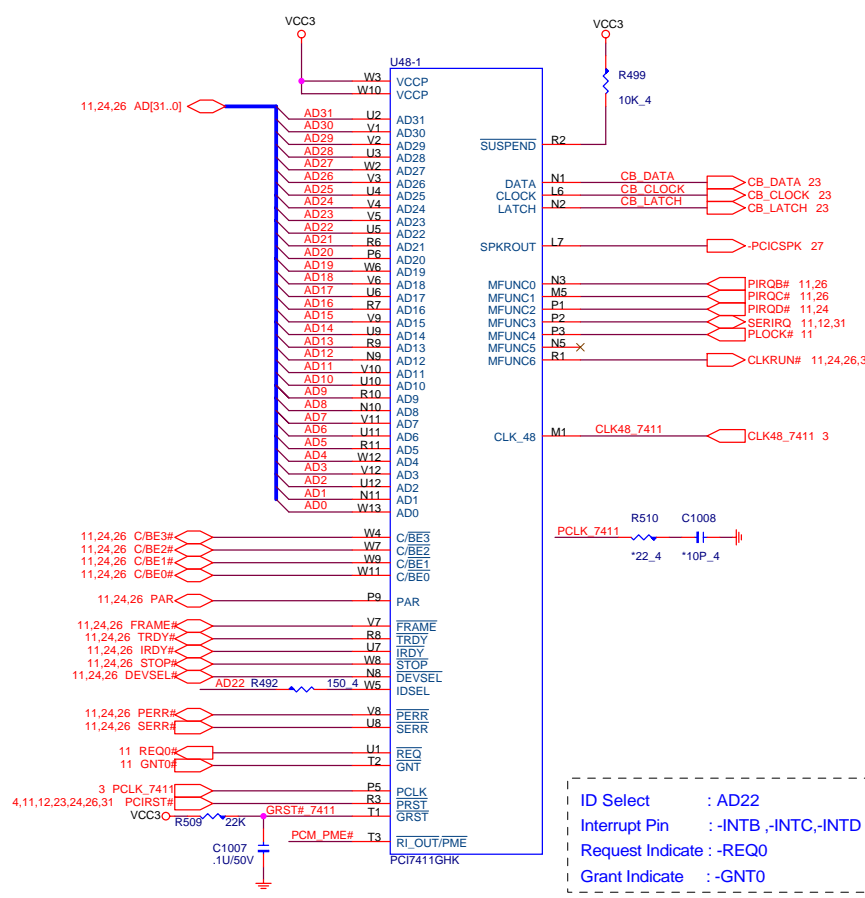
EC 82



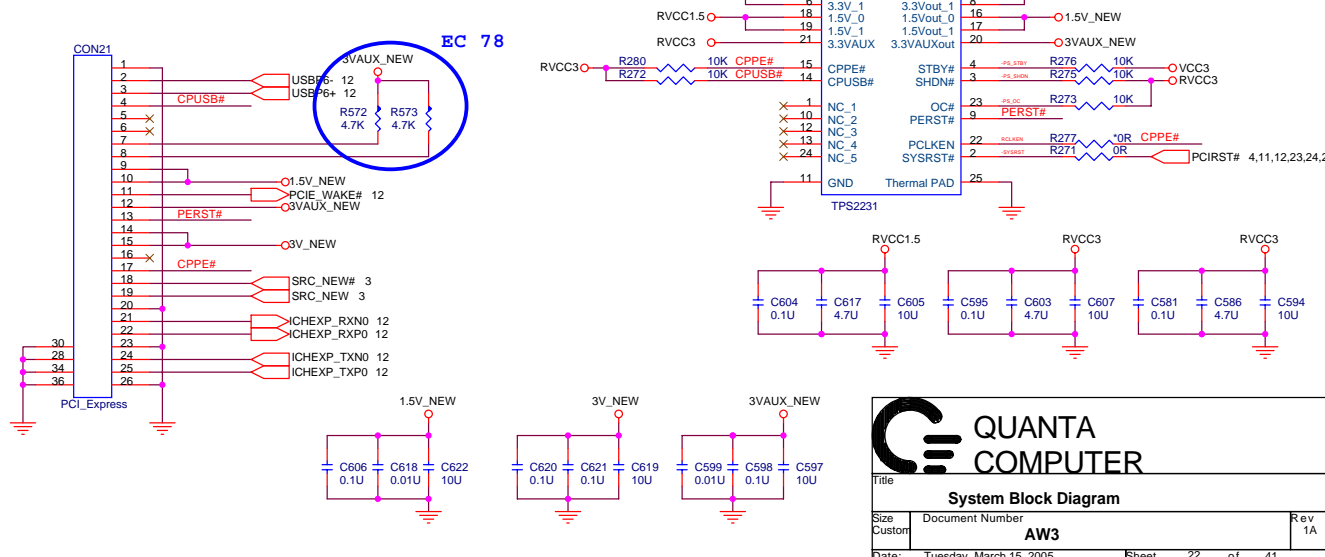
**QUANTA COMPUTER**

**System Block Diagram**

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**PCI-Express Card Power SW**

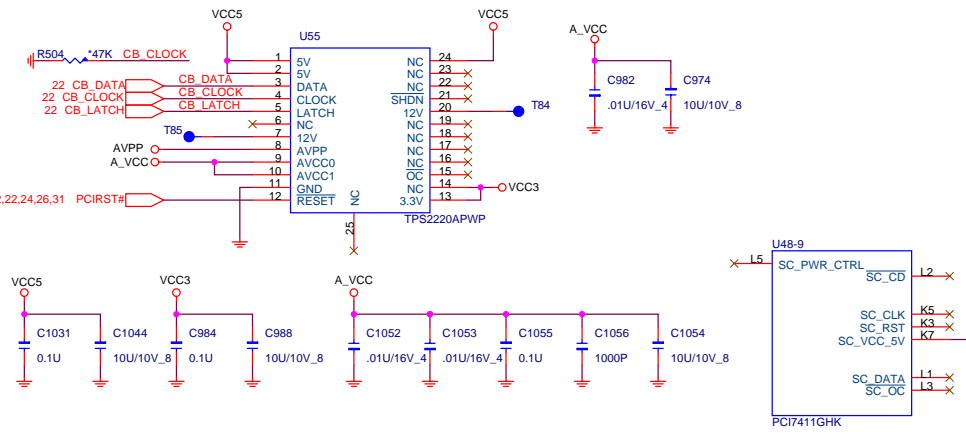
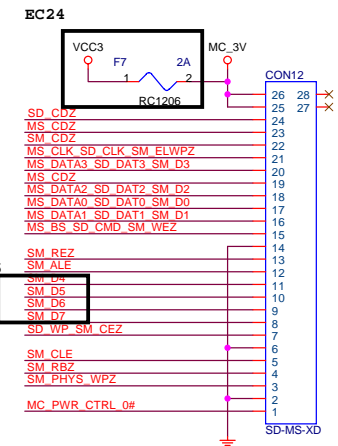
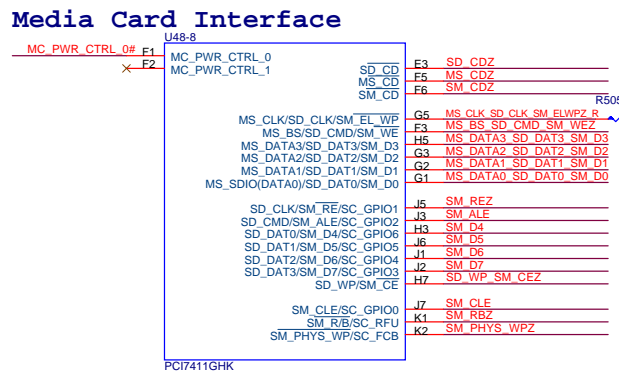
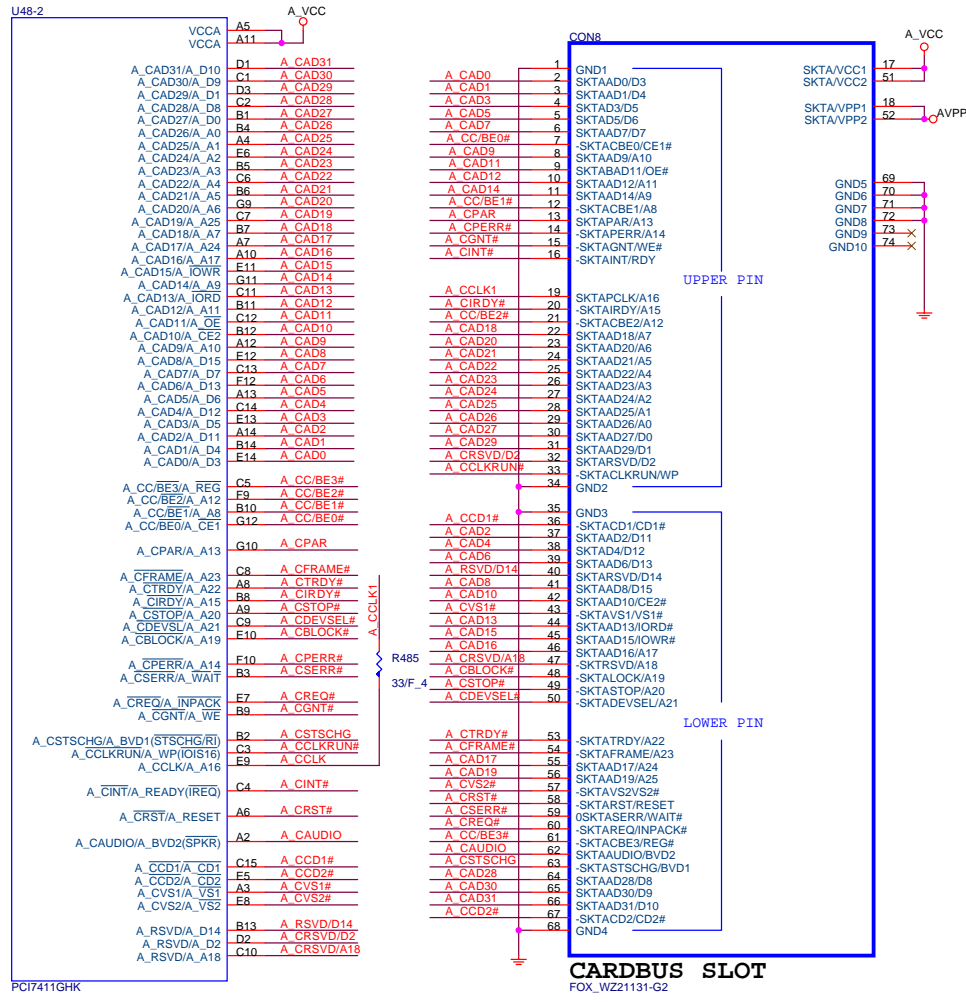


**QUANTA COMPUTER**

Title: **System Block Diagram**

Size: Custom Document Number: **AW3** Rev: 1A

Date: Tuesday, March 15, 2005 Sheet: 22 of 41



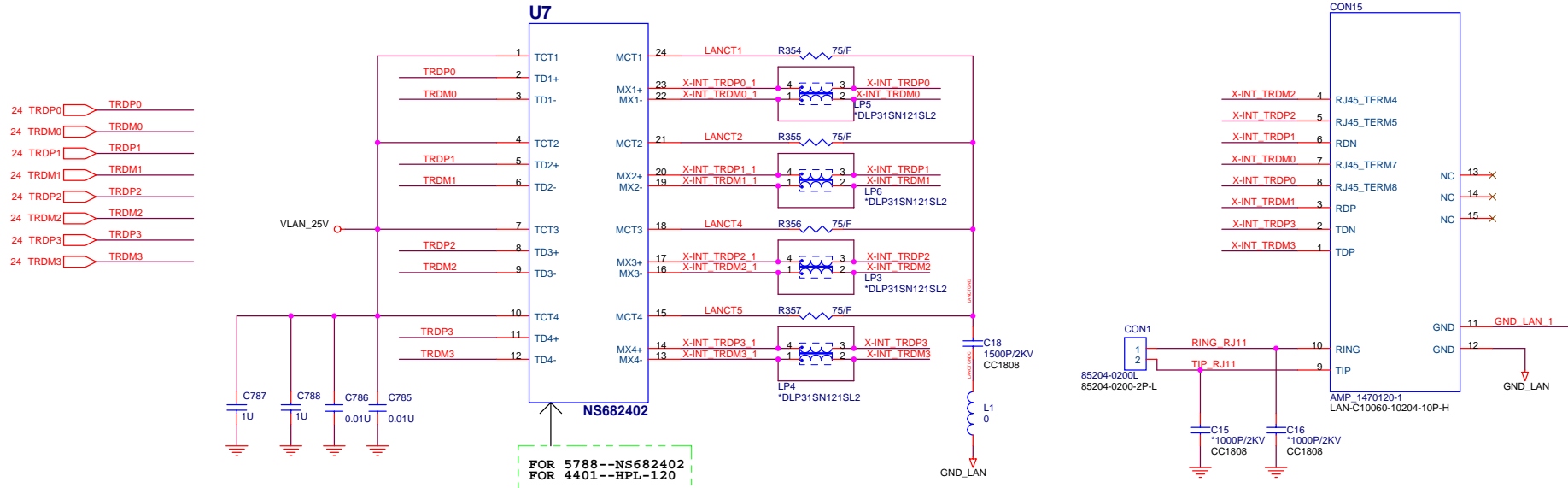
**QUANTA COMPUTER**

Title: System Block Diagram

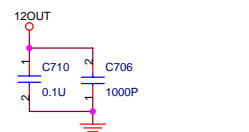
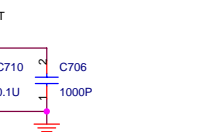
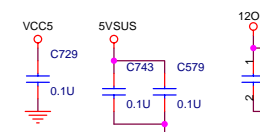
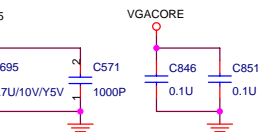
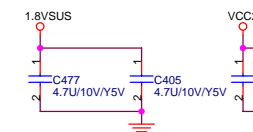
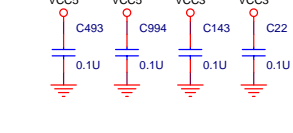
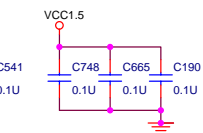
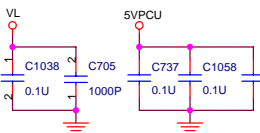
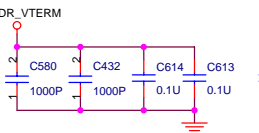
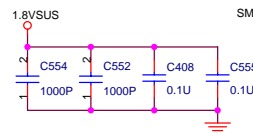
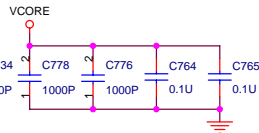
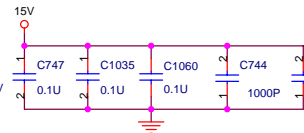
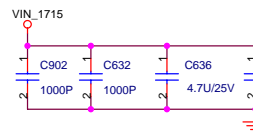
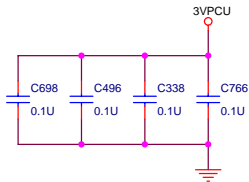
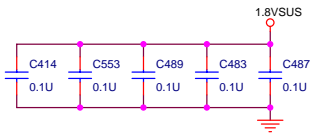
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Document Number: AW3  
Date: Tuesday, March 15, 2005  
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### For EMI

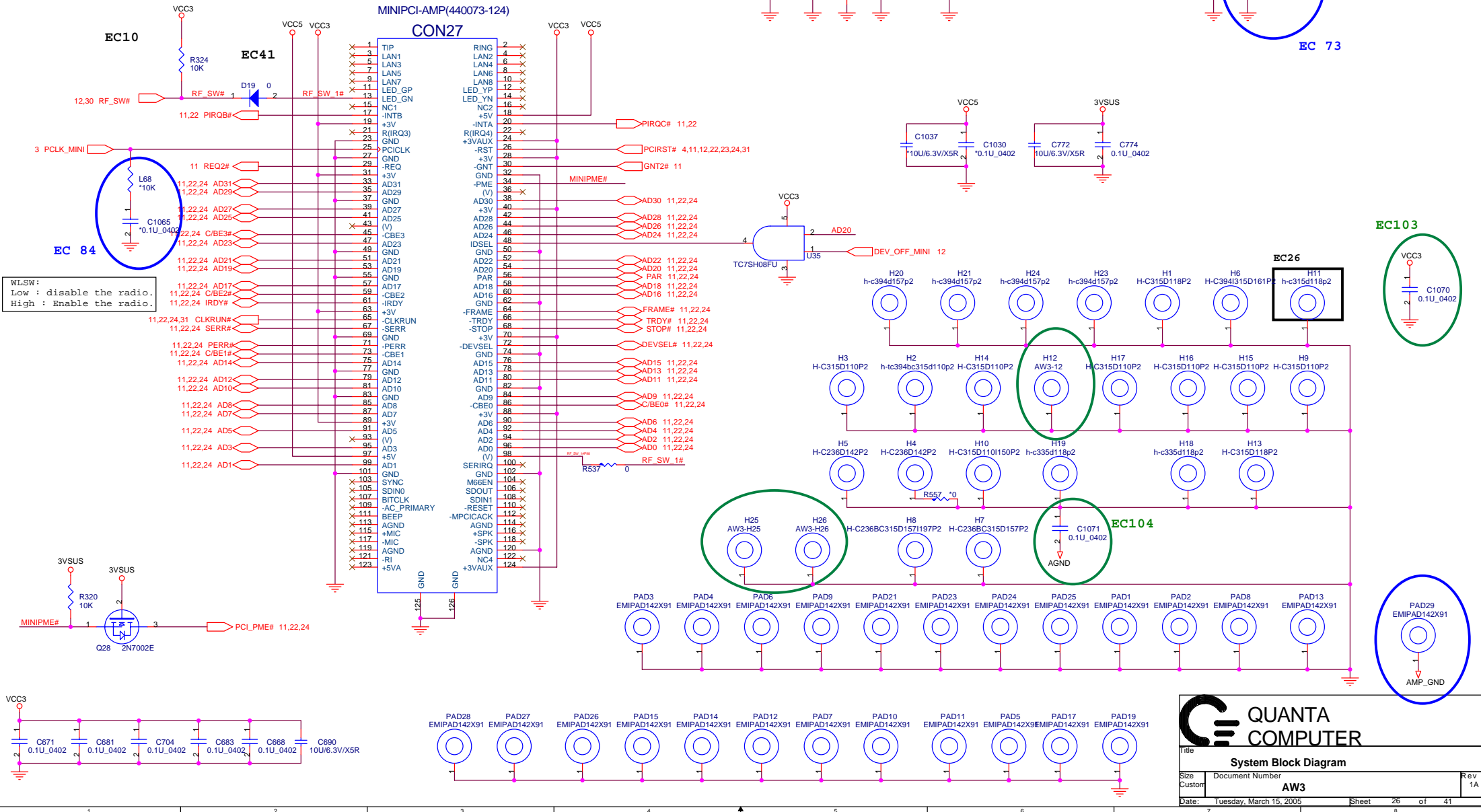


Title		
System Block Diagram		
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# MDC V1.5 12Pin (Askey) Azalia MDC interface

ID Select : AD20  
 Interrupt Pin : -INTB, -INTC  
 Request indicates : -REQ1  
 Grant indicates : -GNT1

LED\_GP :LED WLEN LINK  
 Output Current : 7mA  
 Blink rate : 1 flash per every 3 sec.



**QUANTA COMPUTER**

Title: System Block Diagram

Size: Document Number

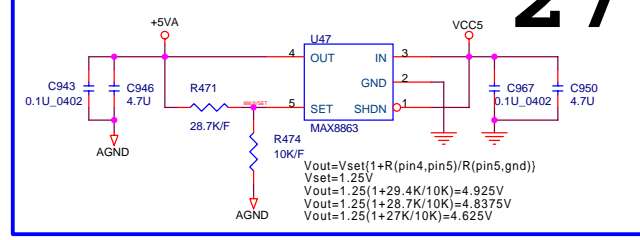
Customer: AW3

Date: Tuesday, March 15, 2005

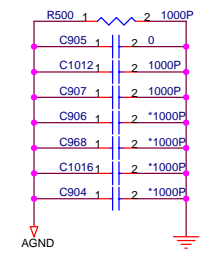
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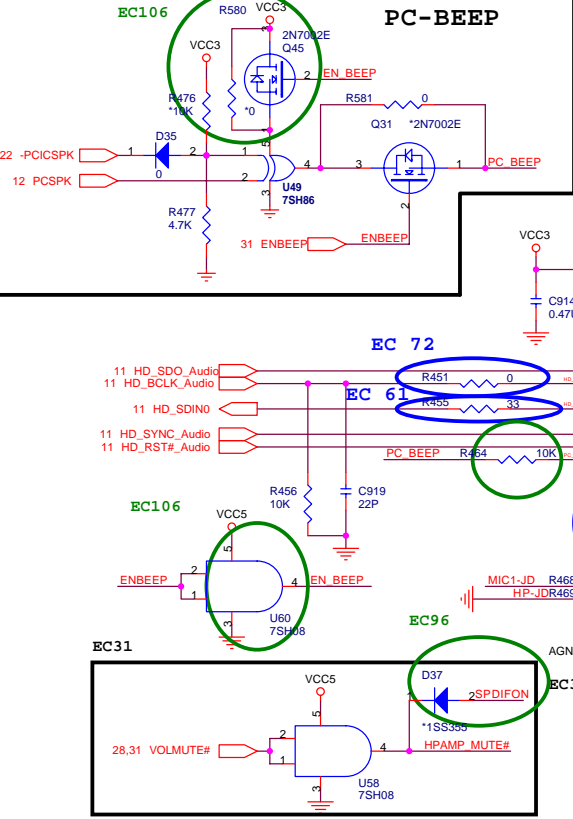
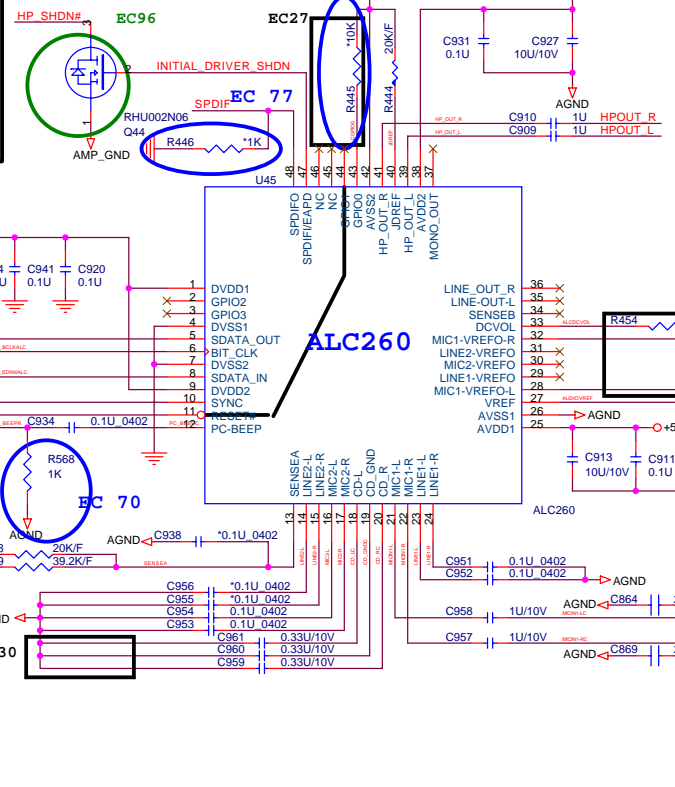
### Codec Analog Power



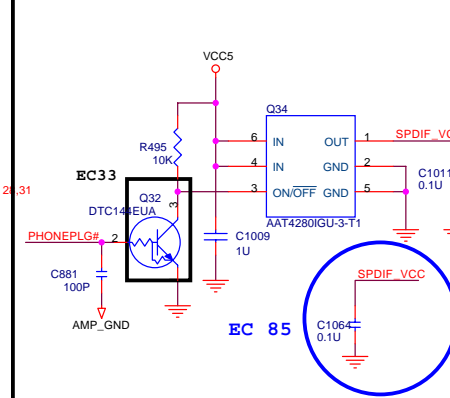
SPRAY THE BRIDGE ON THE GAP OF A/DGND UNIFORMLY.



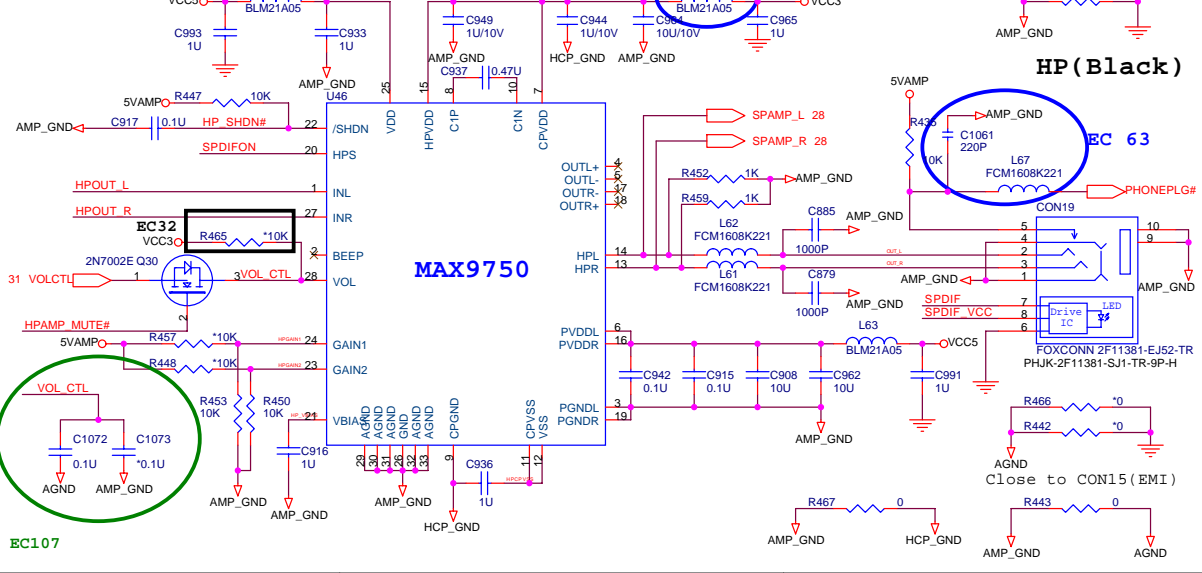
### Aucio Codec



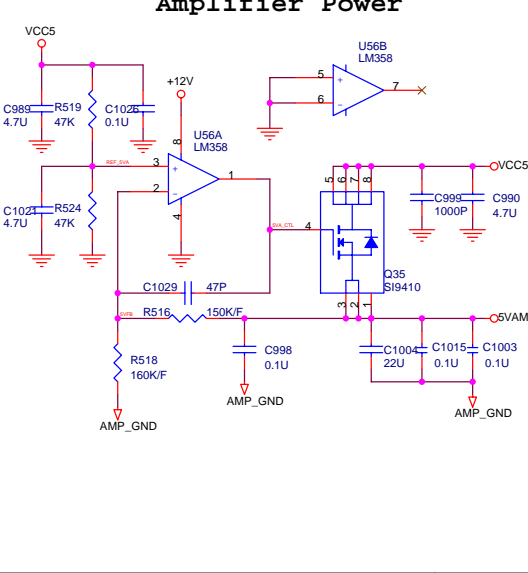
### SPDIF Power Switch



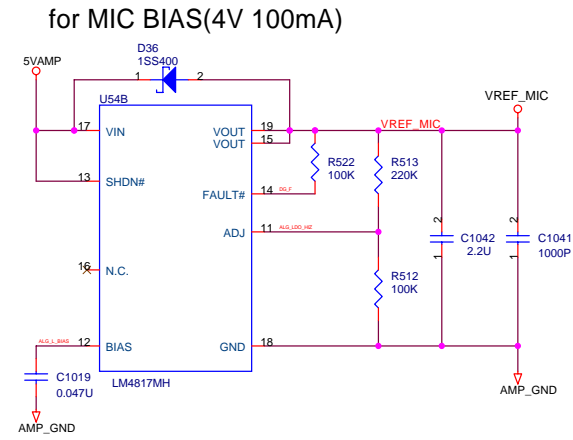
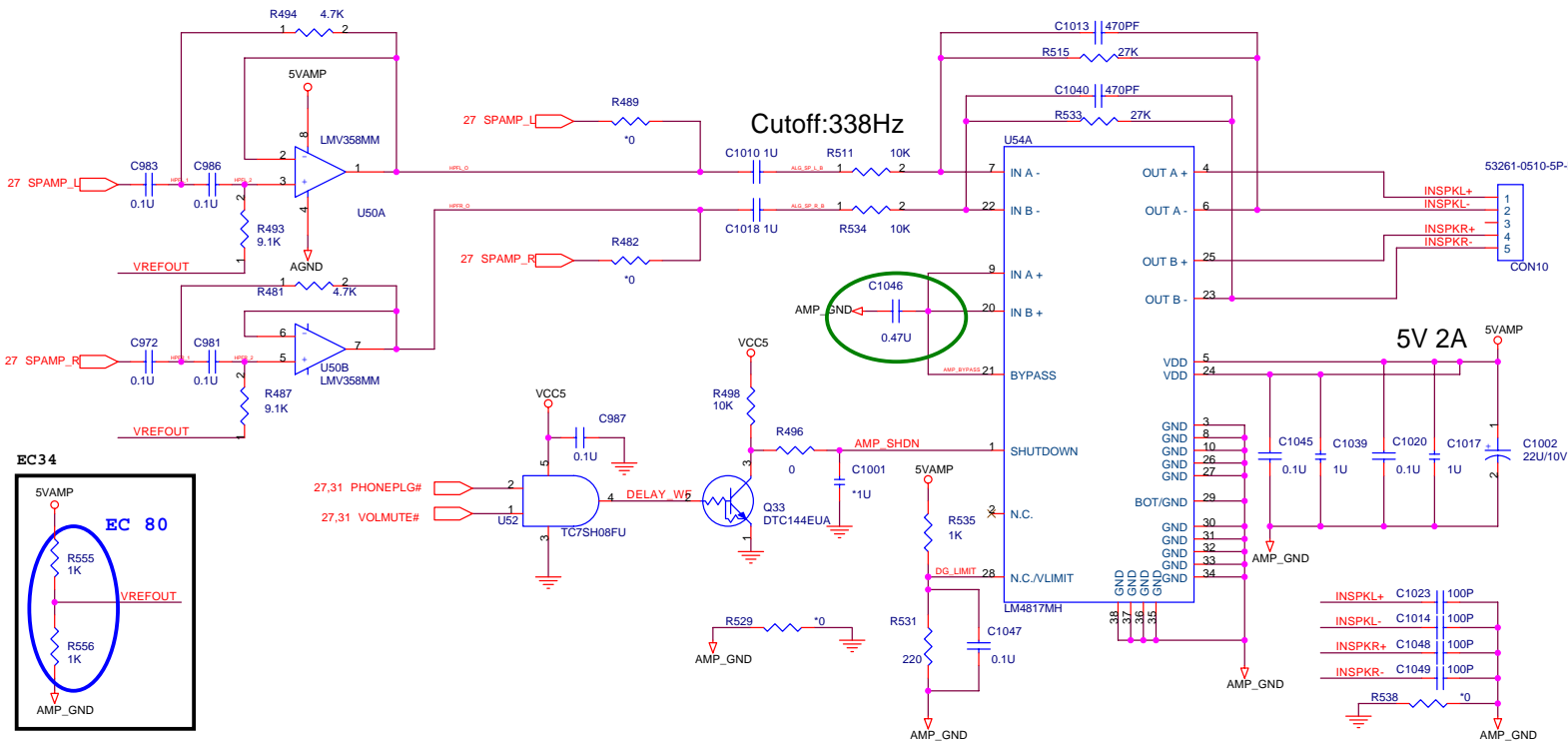
### Headphone Amplifier



### Amplifier Power

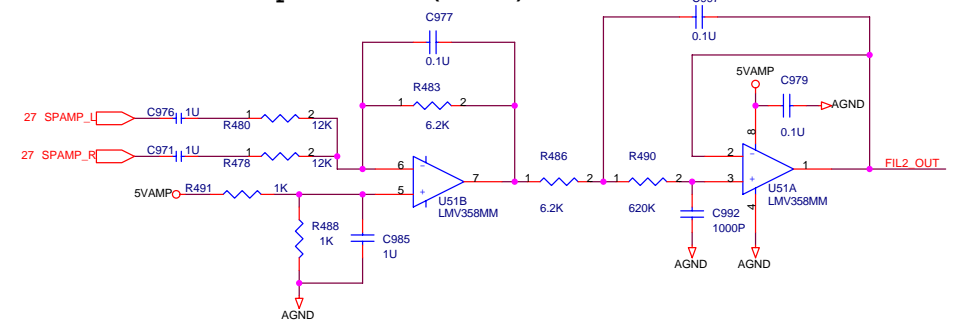


**QUANTA COMPUTER**  
 System Block Diagram  
 Title: \_\_\_\_\_  
 Size: Document Number  
 Custom: \_\_\_\_\_  
 Date: Tuesday, March 15, 2005  
 Sheet 27 of 41  
 Rev 1A

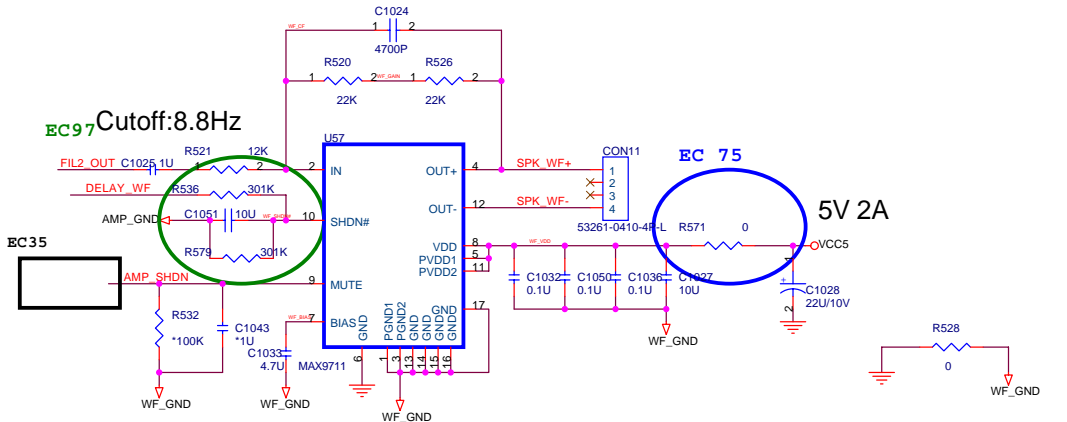


Mixer & 1nd order low pass filter(338HZ)

2nd order low pass filter(338HZ)



Cutoff:770Hz



**QUANTA COMPUTER**

Title: System Block Diagram

Size: Document Number

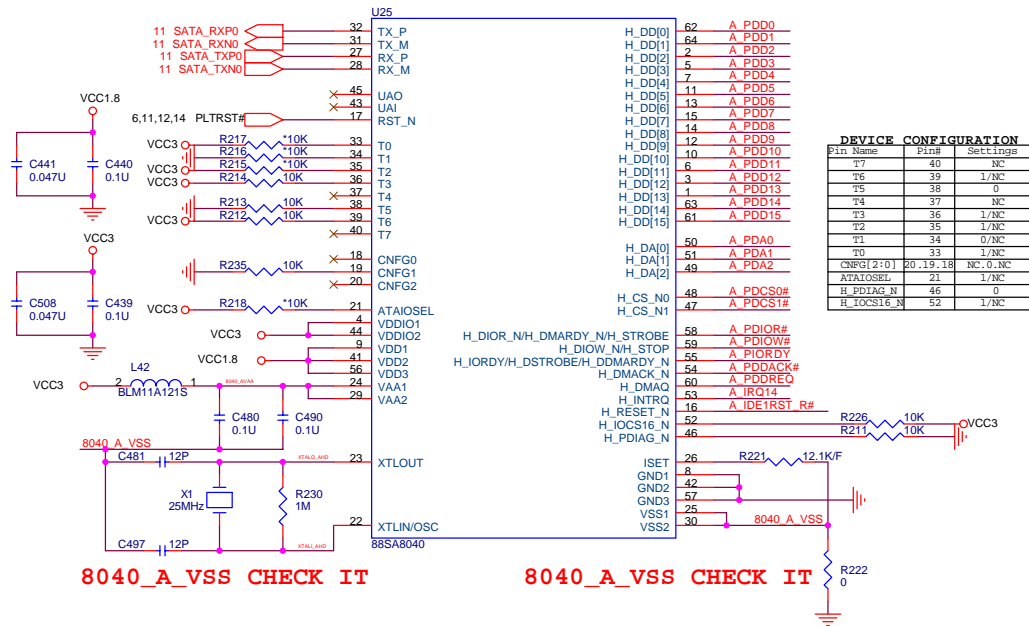
Custom: AW3

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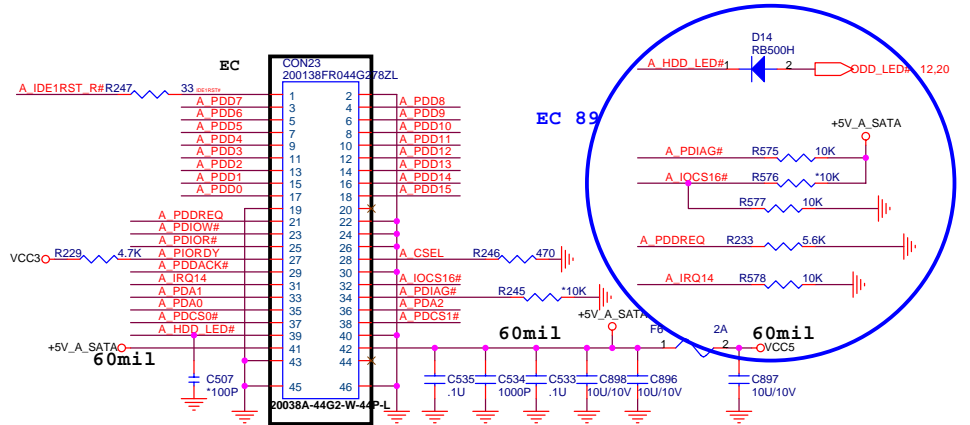
# Primary SATA to PATA



### DEVICE CONFIGURATION

Pin Name	Pin#	Settings
T7	40	NC
T6	39	1/NC
T5	38	0
T4	37	NC
T3	36	1/NC
T2	35	1/NC
T1	34	0/NC
T0	33	1/NC
CNFG1[2:0]	20, 19, 18	NC, 0, NC
ATAIOSEL	21	1/NC
H_IDCS16_N	46	0
H_IDCS16_M	52	1/NC

# Secondary HDD



# Reserve

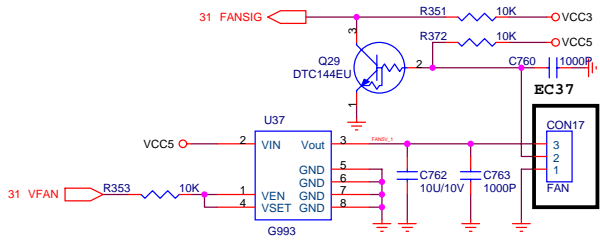
**QUANTA COMPUTER**

Title: **System Block Diagram**

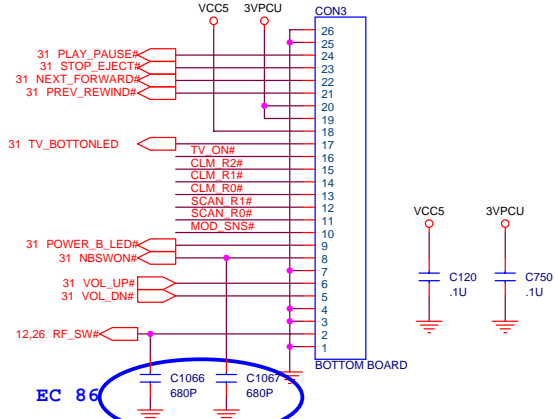
Size: Custom | Document Number: **AW3** | Rev: 1A

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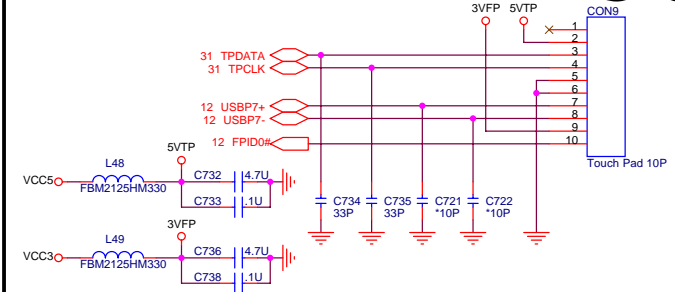
MAIN FAN UNIT



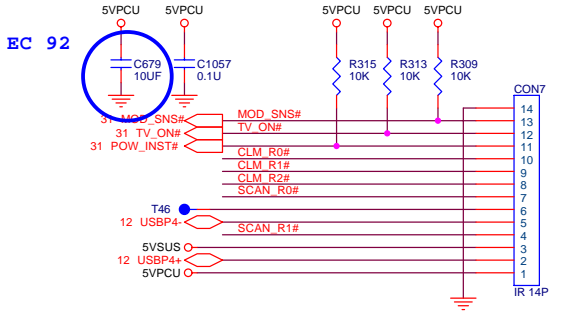
BUTTON BOARD



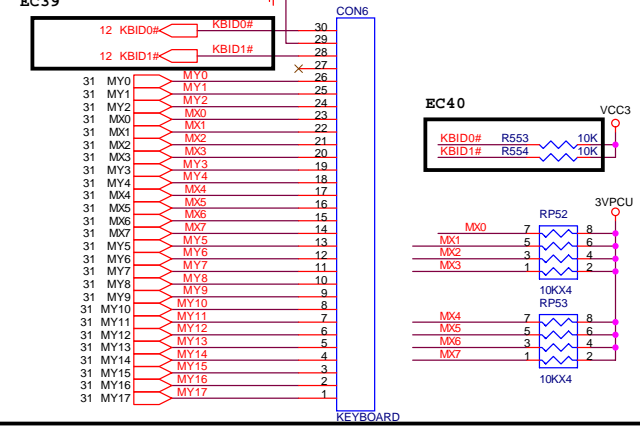
Touch Pad & Finger Print Power trace keep 12mil.



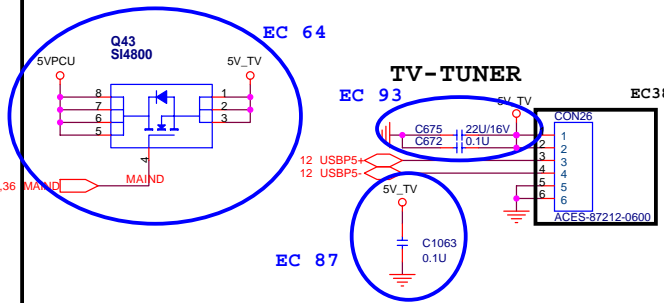
TO RECEIVER MODULE



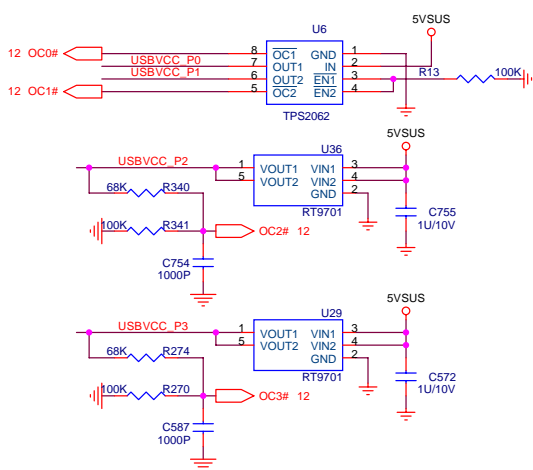
KEYBOARD



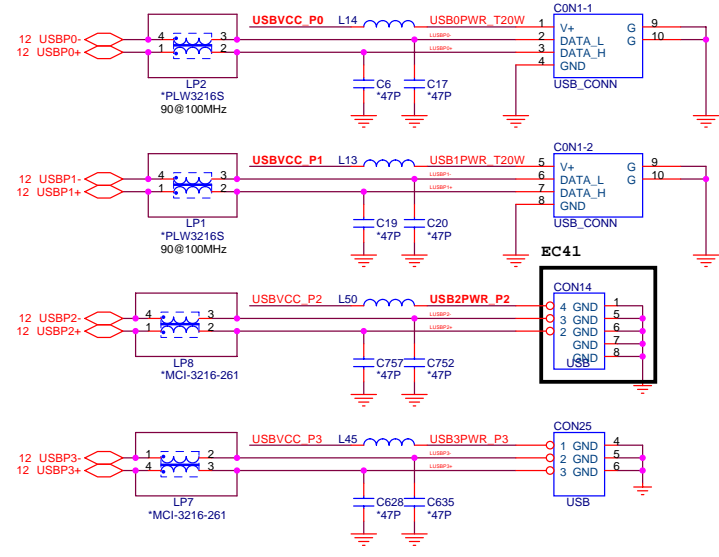
TV-TUNER



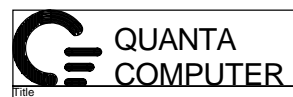
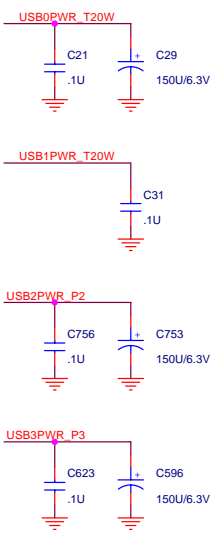
USB Power and Over current



USB Connector



Place near the USB connector

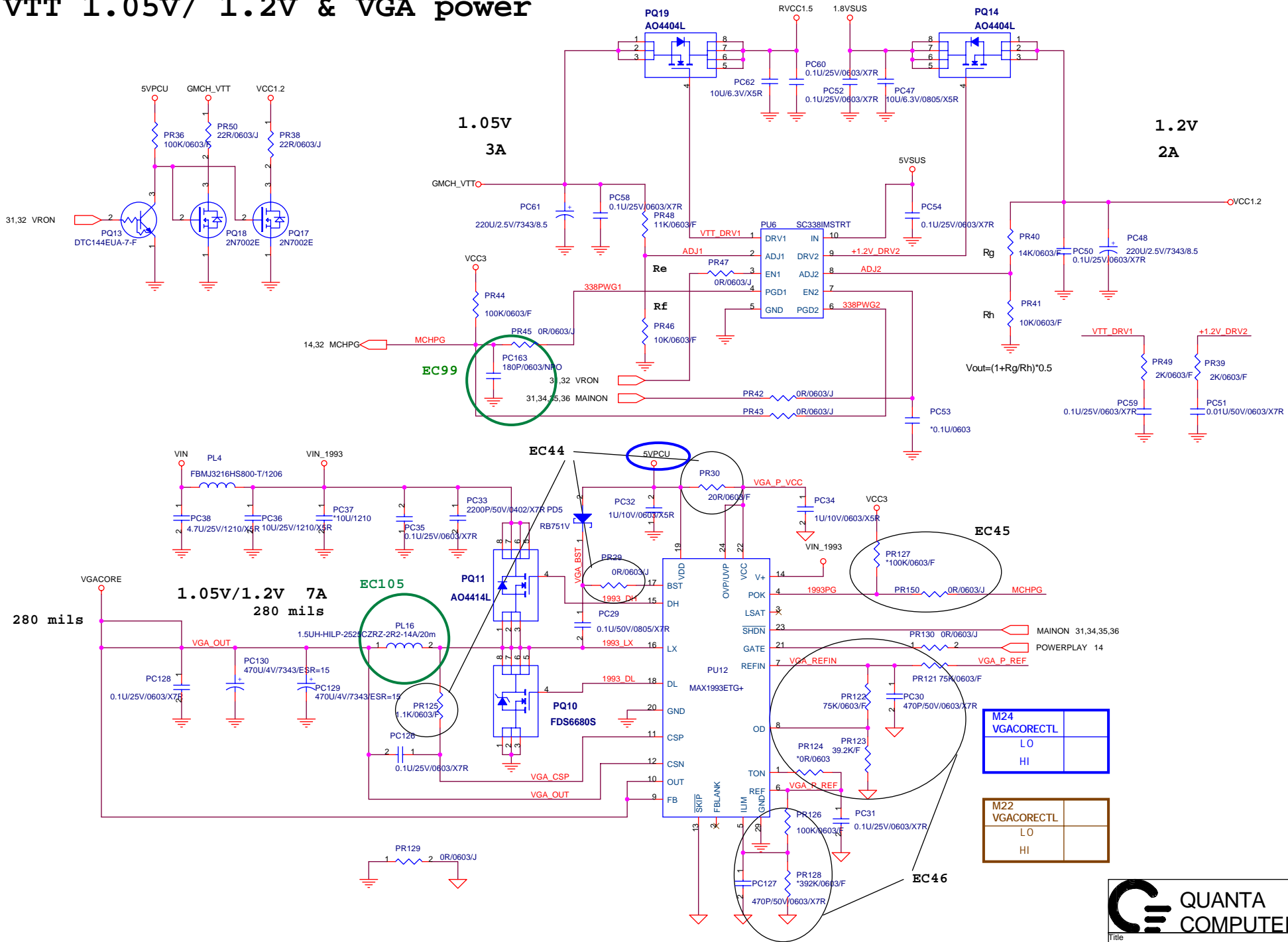




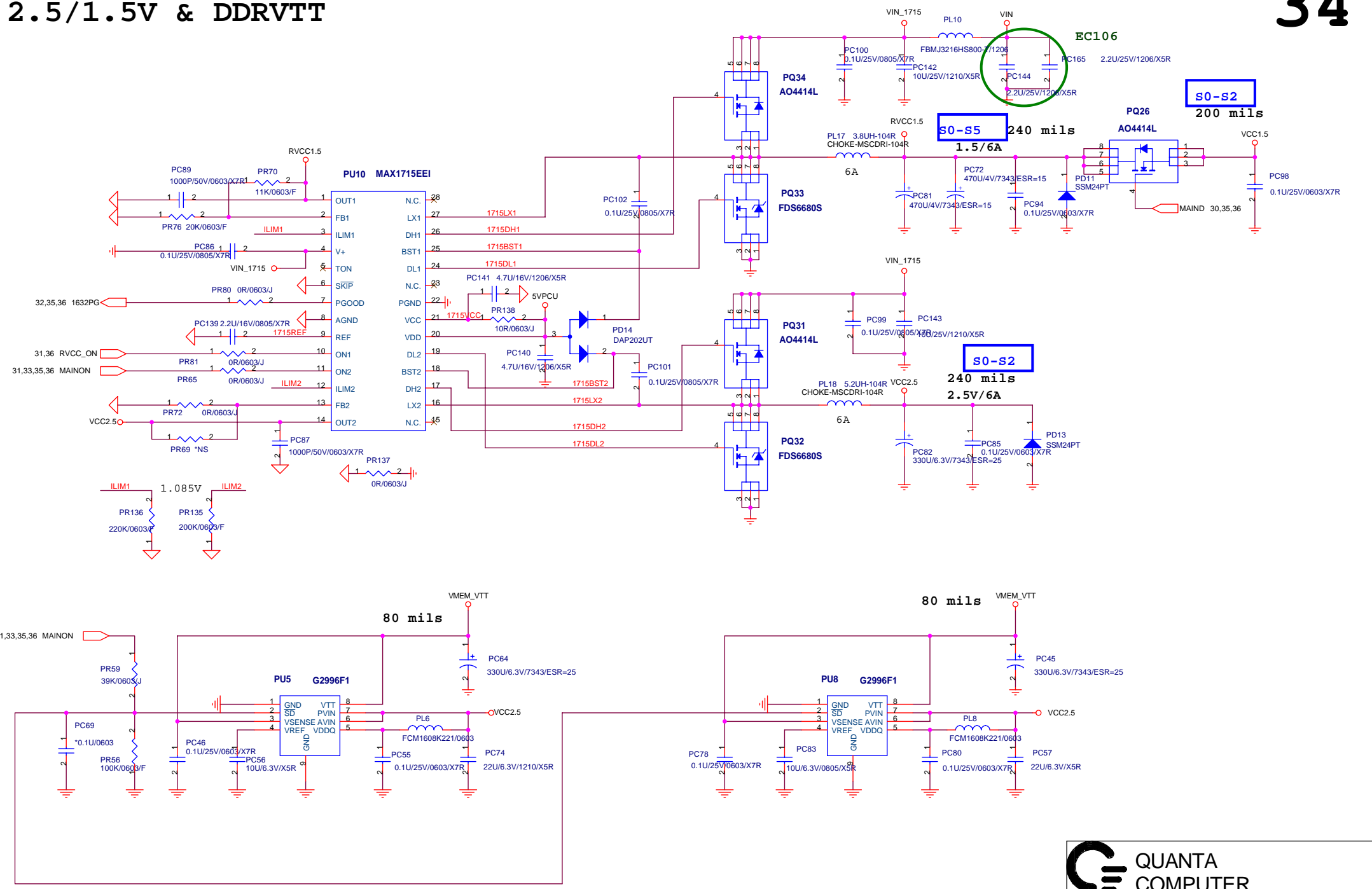


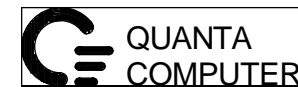
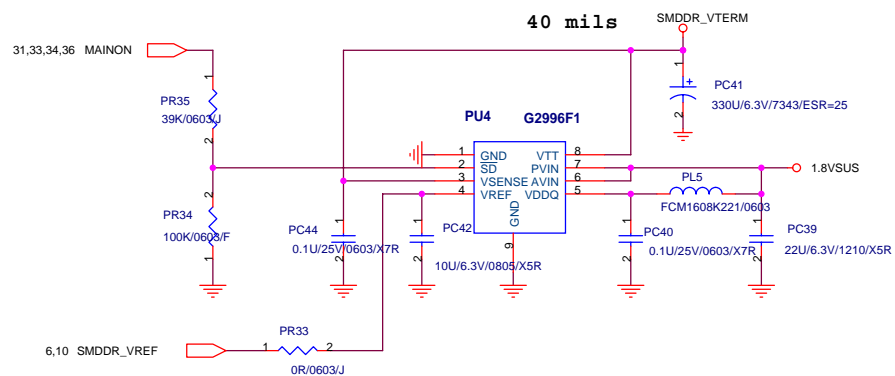
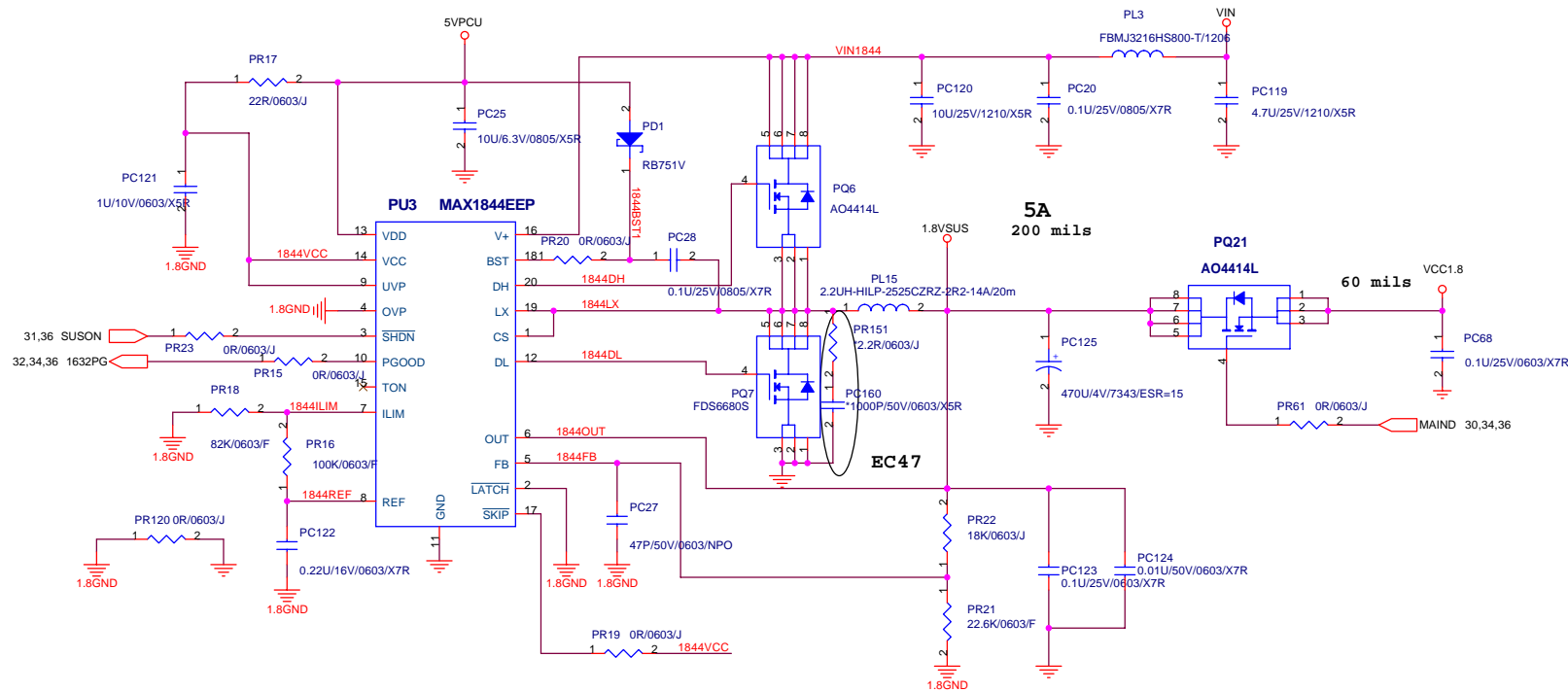


# VTT 1.05V/ 1.2V & VGA power



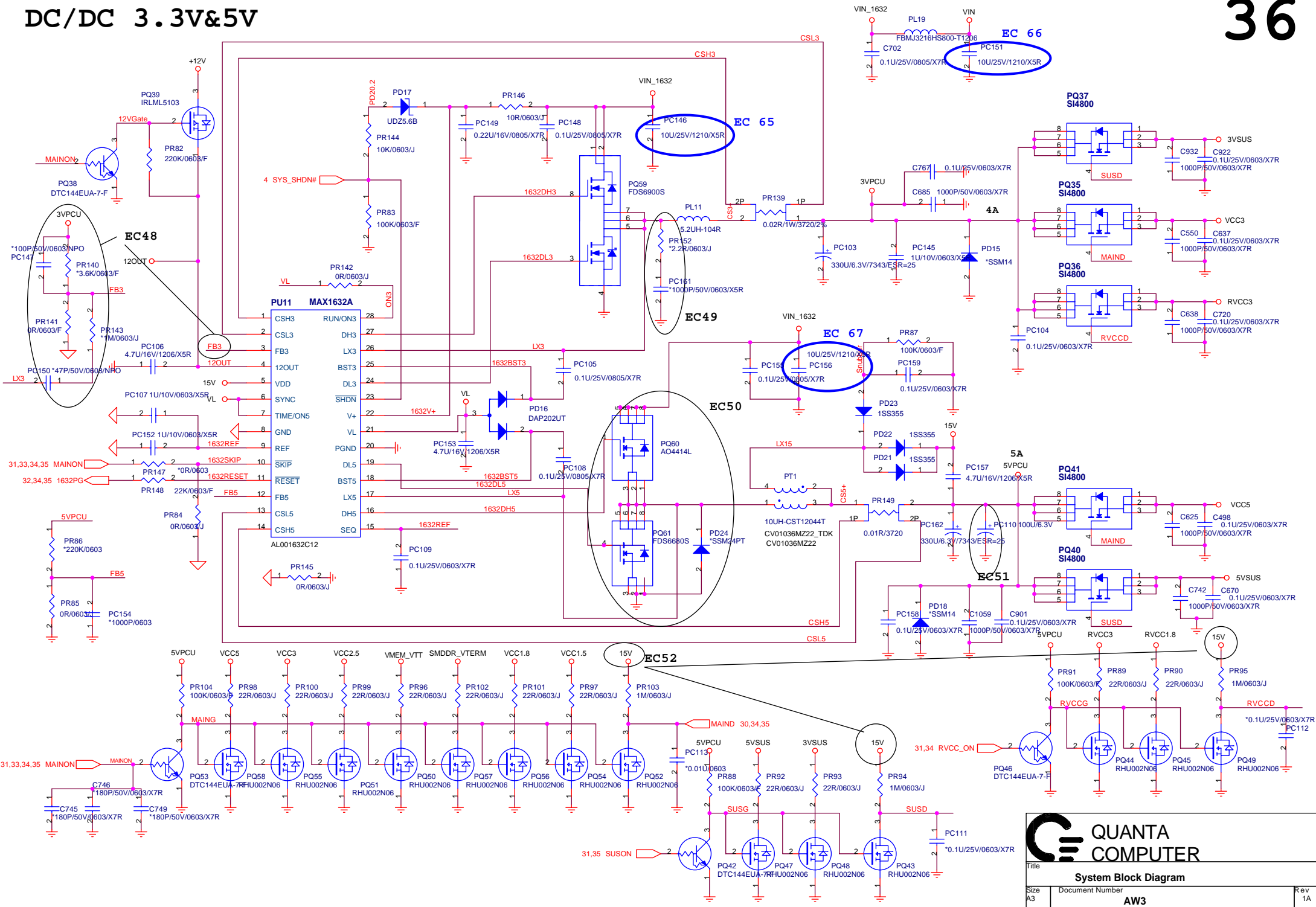
# 2.5/1.5V & DDRVTT





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1.8V/ 0.9V		
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# DC/DC 3.3V&5V



**QUANTA COMPUTER**

Title: **System Block Diagram**


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## EC LIST -- A to B test :


EC1-- Page 3 -- Change R176, R177 footprint to 0402 -- Fix footprint error in A PCBA  
 EC2-- Page 6 -- R183,R184 change to no-pop -- Intel suggest to improve S3  
 EC3-- Page 6 -- R65 change to no-pop to set DMI x 4-- A design error  
 EC4-- Page 6 -- R91 change to no-pop -- Set PCIE to normal operation  
 EC5-- Page 11 -- Change R310 to 240K -- Improve RTC reset timing  
 EC6-- Page 12 -- Change RP81 pull high power rail to RVCC3 and VCC3 -- A circuit design error  
 EC7-- Page 12 -- Change RP80 pul high power rail to RVCC3 -- A circuit design error  
 EC8-- Page 12 -- Change RP83 pul high power rail to RVCC3 -- A circuit design error  
 EC9-- Page 12 -- Add R551 and pull high to VCC3 -- For fingerprint detect high level supply  
 EC10-- Page 12 -- Connect IFFID to SB GPIO25 -- For fingerprint detect  
 EC11-- Page 12 -- Change R286,R285,R287 pull high power rail to RVCC3 -- A circuit design error  
 EC12-- Page 12 -- Connect KBID0#,KBID1# to SB GPIO19,GPIO21 -- For Keyboard ID detection  
 EC13-- Page 12 -- Change RP82 to no-pop -- IRQ14 should be pull high to VCC3  
 EC14-- Page 13 -- U34 G19 change connection to from 1.5VSUS to RVCC1.5 -- A circuit design error  
 EC15-- Page 13 -- U34 R7,U7 change connection from 1.5VSUS to RVCC1.5 --A circuit design error  
 EC16-- Page 13 -- U34 A25 change connect from 1.5VSUS to VCC1.5 -- A circuit design error  
 EC17-- Page 13 -- U34 G10,G11 change connection from 1.5VSUS to VCCL1.5 -- A circuit design error  
 EC18-- Page 18 -- U34 A13,F14,G13,G14 change connection from RVCC3 to VCC3 -- A circuit design error  
 EC19-- Page 14 -- Add R539 pull high to VCC3 -- Fix S-Video can not be detected  
 EC20-- page 15 -- Change U41 AG26,AK29,AJ30,AG28,AG27 connection from 1.8V to VCC1.8 -- A circuit typo  
 EC21-- Page 16 -- Change R204,R201 connection from 1.8V to VCCL1.8 -- A circuit typo  
 EC22-- Page 20 -- Change D26,D27,D25,D24 footprint -- A footprint error  
 EC23-- Page 20 -- Add R542 - R550 -- Seperate current limit resistor to one by one  
 EC24-- Page 23 -- Add F7 -- Protect MC\_3V overcurrent  
 EC25-- Page 23 -- Change CON12 pin 9,10,11,12 connection to SM\_D7,6,5,4 -- Fix XD card can not be detected  
 EC26-- Page 26 -- H11 change footprint -- Mechanical requirement  
 EC27-- Page 27 -- Add R445 --Fujitsu suggestion  
 EC28-- Page 27 -- Remove VREFOUT from U45 pin30 -- Decrease noise from internal speaker  
 EC29-- Page 27 -- Change CON18 footprint -- Fix footprint define error  
 EC30-- Page 27 -- Connect C961,C960,C959 to AGND -- Fujitsu suggestion  
 EC31-- Page 31 -- Add U58 -- Level up VOLMUTE# high voltage  
 EC32-- Page 27 -- R465 change to no-pop -- Prevent voltage level divide by R465  
 EC33-- Page 27 -- Change Q32 to DTC144EUA -- Fix PHONEPLG# be pull down by MMBT3904  
 EC34-- Page 28 -- Change VREFOUT to 5VAMP/2 --Solve big noise from internal speaker  
 EC35-- Page 28 -- Change U57 pin9 to AMP\_SHDN  
 EC36-- Page 29 -- Change CON23 footprint -- A footprint error  
 EC37-- Page 30 -- Change CON17 pin define -- Pin define error  
 EC38-- Page 30 -- Change CON26 pin define -- A pin define error  
 EC39-- Page 30 -- Add ID pin on CON6 -- Add Keyboard ID detection  
 EC40-- Page 30 -- Add R553,R554 -- Provide pull high to KBID0#,KBID1#  
 EC41-- Page 30 -- Change CON41 footprint -- Change connector to short type  
 EC42-- Page 31 -- Remove SW1 -- Change to Keyboard ID  
 EC43-- Page 32 -- 1999PG change to 1632PG -- A circuit design error  
 EC44-- Page 33 -- Change PR20,PR30,PR125 footprint to 0603 -- Fix footprint error in A PCBA  
 EC45-- Page 33 -- Change PR150 connection to MCHPG -- A circuit design error  
 EC46-- Page 33 -- Change PR121,PR122,PR123,PR124,PR126,PR128,PC30,PC127 footprint to 0603 -- Fix footprint error in A PCBA  
 EC47-- Page 35 -- Backup PR151,PC160 -- Decrease ripple  
 EC48-- Page 36 -- Change FB3 connection to GND -- A circuit design error  
 EC49-- Page 36 -- Backup PR152,PC161 -- Decrease ripple  
 EC50-- Page 36 -- Change PQ60 to PQ60&PQ61 -- A circuit design error  
 EC51-- Page 36 -- Add PC162 -- Decrease ripple  
 EC52-- Page 36 -- 12V change to 15V -- A circuit design error  
 EC53-- Page 37 -- Add PR153&PR154 connection to CHG -- A circuit design error  
 EC54-- Page 37 -- PR52 change to 17.4K and PR132 change to 20K -- Fix total power current

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EC LIST -- B to C test :

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- EC55-- Page 04 -- Add thermaltrip circuit -- Solve system can not power on
- EC56-- Page 12 -- Add R566 location and R574 -- Solve HDD and ODD can not be detected issue
- EC57-- Page 12 -- Add R567 location-- Solve HDD and ODD can not be detected issue
- EC58-- Page 22 -- Add C1068 -- Prevent timing error on PCI\_PME#
- EC59-- Page 14 -- Add L69, L70, L71 and pop C160,C159,C157 -- EMI request
- EC60-- Page 26 -- R363 change to 33 ohm -- Azalia spec.
- EC61-- Page 27 -- R455 change to 33 ohm -- Azalia spec.
- EC62-- Page 27 -- C870 and C918 change to NO-POP -- To meet impedance requirement
- EC63-- Page 27 -- Remove R559 and change to L67; change C1061location -- EMI request
- EC64-- Page 30 -- Add Q43 -- Change TV tuner power plane to 5V\_TV
- EC65-- Page 36 -- PC146 change to 10U/25V -- Improve ripple noise
- EC66-- Page 36 -- PC151 change to 10U/25V -- Improve ripple noise
- EC67-- Page 36 -- PC156 change to 10U/25V -- Improve ripple noise
- EC68-- Page 37 -- PR57 change to NO-POP -- B design error
- EC69-- Page 22 -- C928, C925 change to 22pF -- Improve 24.576MHz clock quality
- EC70-- Page 27 -- Add R568 -- Improve PC-Beep waveform
- EC71-- Page 11 -- Change R369,R449,R463,R462,R367,R458 location and add R569,R570 -- Correct Azalia layout
- EC72-- Page 27 -- Change R451 to 0 ohm -- For EMI debug use
- EC73-- Page 27 -- Change R362 to 0 ohm -- For EMI debug use
- EC74-- Page 11 -- Change CON20 footprint and location-- Improve assembly
- EC75-- Page 28 -- Add R571 0 ohm -- Solve Woofer sound no good
- EC76-- Page 14 -- R86 and R107 change to 100 ohm -- ATI suggestion
- EC77-- Page 27 -- R445, R446 change to no-pop -- Meet driver requirement
- EC78-- Page 22 -- Add R572,R573 -- Remove SMBUS and add pull high
- EC79-- Page 28 -- R555, R556 change to 1K ohm -- Fujitsu suggestion
- EC80-- Page 18 -- Change VRAM VDD bypass capacitor to 0.1uF -- ATI suggestion
- EC81-- Page 19 -- Change VRAM VDD bypass capacitor to 0.1uF -- ATI suggestion
- EC82-- Page 21 -- L2,L3,L4 change to 0 ohm; C26,C27,C28,C8,C9,C10 change to no pop -- EMI request
- EC83-- Page 22 -- remove L52 and change L51 footprint -- EMI request
- EC84-- Page 26 -- Add L68, C1065 location-- EMI request
- EC85-- Page 27 -- Add C1064 -- EMI request
- EC86-- Page 30 -- Add C1066, C1067 -- EMI request
- EC87-- Page 30 -- Add C1063 -- EMI request
- EC88-- Page 12 -- Change R551 to 100K -- Fujitsu suggestion
- EC89-- Page 29 -- Add R575, R576; R233 change to 5.6K -- Solve Toshiba HDD CRC error
- EC90-- Page 27 -- Add L72-- Improve U46 power quality
- EC91-- Page 33 -- Change PU12 power source to 5VPCU-- Improve PU12 power sequence
- EC92-- Page 30 -- Change C679 to 10UF -- Improve IR receiver power quality
- EC93-- Page 30 -- Change C672 to 0603 footprint and move C675,C672 location-- Improve TVtuner power quality
- EC94-- Page 09 -- Change C484 and C886 to 150uF -- Improve 1.5V power quality
- EC95-- Page 09 -- Change DEV\_OFF\_LAN and DEV\_OFF\_MINI to GPO21,GPO23; change KBID0#,KBID1# to GPIO33,GPIO34 -- Design error


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EC LIST -- C to C+ test :

- EC96-- Page 27 -- Add Q44 and D37 -- To solve Headphone POP noise.
- EC97-- Page 28 -- Add R536 and R579 -- To solve Internal speaker and Woofer speaker sound unsynchronism when remove Headphone.
- EC98-- Page 32 -- Add PC164 1000P -- Filter out noise on HWPG signal
- EC99-- Page 33 -- Add PC163 180P -- Filter out noise on MCHPG signal
- EC100-- Page 21 -- Add L73,L74,L75 -- EMI solution
- EC101-- Page 21 -- Add L76,L77,L78 -- EMI solution
- EC102-- Page 21 -- Add C1069 0.1uF 0402 -- EMI solution
- EC103-- Page 26 -- Add C1070 0.1uF 0402 -- EMI solution
- EC104-- Page 26 -- Add C1071 0.1uF 0402 -- EMI solution
- EC105-- Page 33 -- PL16 change to 1.5UH/14A/20m -- solve VGA core over current issue( Already implement on C unit )
- EC105-- Page 33 -- ADD PC165 2.2U 1206 and PC144 change to 2.2U 1206 -- machine height limited
- EC106-- Page 27 -- Add U60,Q45,R581 and Del Q31--To solve leak the sound when mute PCBEEP .
- EC107-- Page 27 -- Add C1072--To solve some volum level noise.



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