

Doc No: 921F342002

258KA0

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27	IEEE1394 PHY & MINI_PCI		
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29	AUDIO CODEC & AMP & SPK & MIC		
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31	NS87551& BIOS		
32	VCC SWITCH&BAT CONTROL		
33	Charger		
34	+2.5V_DIMM & +1.25V_DDR & +1.2V		
35	1.8V_AUX & AGPVDD		

258KA0 REV:B

P/N: 37-UF3000-00B

MADE IN TAIWAN

pin 976

921-0F342000-008

power/B rev=B pin 9740

921-UD7200-01

CO-ROM/G REV=B01 pin 1



機密/發行

RD1 吳仁定 02/10.2004

UNIWILL COMPUTER CORP.

COVER PAGE

Title	
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Rev B	

SIS963L GPIO	
GPIO0	NC
GPIO1	NC
GPIO2	THERMTRIP#
GPIO3	EXTSMI#
GPIO4	CLKRUN#
GPIO5	HDD/CDROM_RST#
GPIO6	NC
GPIO7	NC
GPIO8	PNLSW2
GPIO9	PNLSW0
GPIO10	PNLSW1
GPIO11	NC
GPIO12	NC
GPIO13	NC
GPIO14	S3AUXSW#
GPIO15	NC
GPIO16	NC
GPIO17	NC
GPIO18	32KHZ
GPIO19	SMBCLK
GPIO20	SMBDAT

NS87551 GPIO	
IOPA0	SUS_SKIP
IOPA1	BTL_BEEP
IOPA2	+1.8V_ON
IOPA3	NC
IOPA4	PWROK_CPUEC
IOPA5	NC
IOPA6	+3V_ON
IOPA7	S3_ON
IOPB0	PWRBTN#
IOPB1	PWROK1
IOPB2	MUTE#
IOPB3	SMBCLK_EC
IOPB4	SMBDAT_EC
IOPB5	NC
IOPB6	NC
IOPB7	M_DIS_BAT
IOPC0	LAN_DISABLE
IOPC1	SMBCLK_T
IOPC2	SMBDAT_T
IOPC3	S3AUXSW#
IOPC4	PSON#
IOPC5	CHG_LED#
IOPC6	SUS_LED#
IOPC7	LANLED#
IOPD0	NC
IOPD1	NC
IOPD2	PCIRST#
IOPD3	SCI#
IOPD4	PWR_LED#
IOPD5	CAPLED#
IOPD6	NUMLED#
IOPD7	SCROLED#
IOPE0	WWW#
IOPE1	E_MAIL#
IOPE2	LANSW#
IOPE3	PME#
IOPE4	PWRSW
IOPE5	ADAP_IN
IOPE6	TEMP
IOPE7	NC
IOPF0	NC
IOPF1	NC
IOPF2	NC
IOPF3	NC
IOPF4	TPCK
IOPF5	TPDAT
IOPF6	NC
IOPF7	NC
IOPH0	ROMA0
IOPH1	ROMA1
IOPH2	ROMA2
IOPH3	ROMA3
IOPH4	ROMA4
IOPH5	ROMA5
IOPH6	ROMA6
IOPH7	ROMA7

NS87551 GPIO	
IOPI0	ROMD0
IOPI1	ROMD1
IOPI2	ROMD2
IOPI3	ROMD3
IOPI4	ROMD4
IOPI5	ROMD5
IOPI6	ROMD6
IOPI7	ROMD7
IOPJ0	ROMRD#
IOPJ1	ROMWR0#
IOPJ2	ROMWR1#
IOPJ3	NC
IOPJ4	NC
IOPJ5	NC
IOPJ6	NC
IOPJ7	NC
IOPK0	ROMA8
IOPK1	ROMA9
IOPK2	ROMA10
IOPK3	ROMA11
IOPK4	ROMA12
IOPK5	ROMA13
IOPK6	ROMA14
IOPK7	ROMA15
IOPL0	ROMA16
IOPL1	ROMA17
IOPL2	ROMA18
IOPL3	NC
IOPL4	LCDSW
IOPM0	+1.2V_ON
IOPM1	+2.5V_DIMM_ON
IOPM2	CHG_ON
IOPM3	LID#
IOPM4	PAGE_UP#
IOPM5	PAGE_DN#
IOPM6	CORE_ON
IOPM7	NC
AD0	MB_ID
AD1	I_CPU
AD2	V_CPU
AD3	STOP_CHG#
AD4	
AD5	
AD6	
AD7	
AD8	THERMDA_EC
AD9	THERMDC_EC
DA0	BRIGHTADJ
DA1	SET_I
DA2	FAN_CTRL1
DA3	FAN_CTRL0

CPU					
	CPU	CORE (V)	ICC (mA)	W	TEMP (°C)
2.0G		1.525			
2.2G		1.525			
2.26G		1.525			
2.4G		1.525			
2.5G		1.525			
2.53G		1.525			
2.6G		1.525			
2.66G		1.525			
2.8G		1.525			
3.06G		1.525			

SIS755			
VCC	ICC (mA)	W	TEMP (°C)
+3V	100.2	0.4575	70
+1.2V	88	0.1056	
+1.8V	2208.2	2.1261	
AGPVDD	401.7	0.5107	

SIS963L			
VCC	ICC (mA)	W	TEMP (°C)
+3V	96	0.315	70
+1.8V	487	0.876	
+1.8V_AUX	27	0.049	
+3V_AUX	275	0.909	
RTCVDD	0.003	0.00001	
VTT (+1.8V)	15	0.027	

PC87551			
VCC	ICC (mA)	W	TEMP (°C)
+3V	300	1	70

PC87383			
VCC	ICC (mA)	W	TEMP (°C)
+3V	50	0.165	70

CLOCK GENERATOR			
VCC	ICC (mA)	W	TEMP (°C)
+3V	180	0.594	70

RTL8201CL			
VCC	ICC (mA)	W	TEMP (°C)
+3V	200	0.66	70

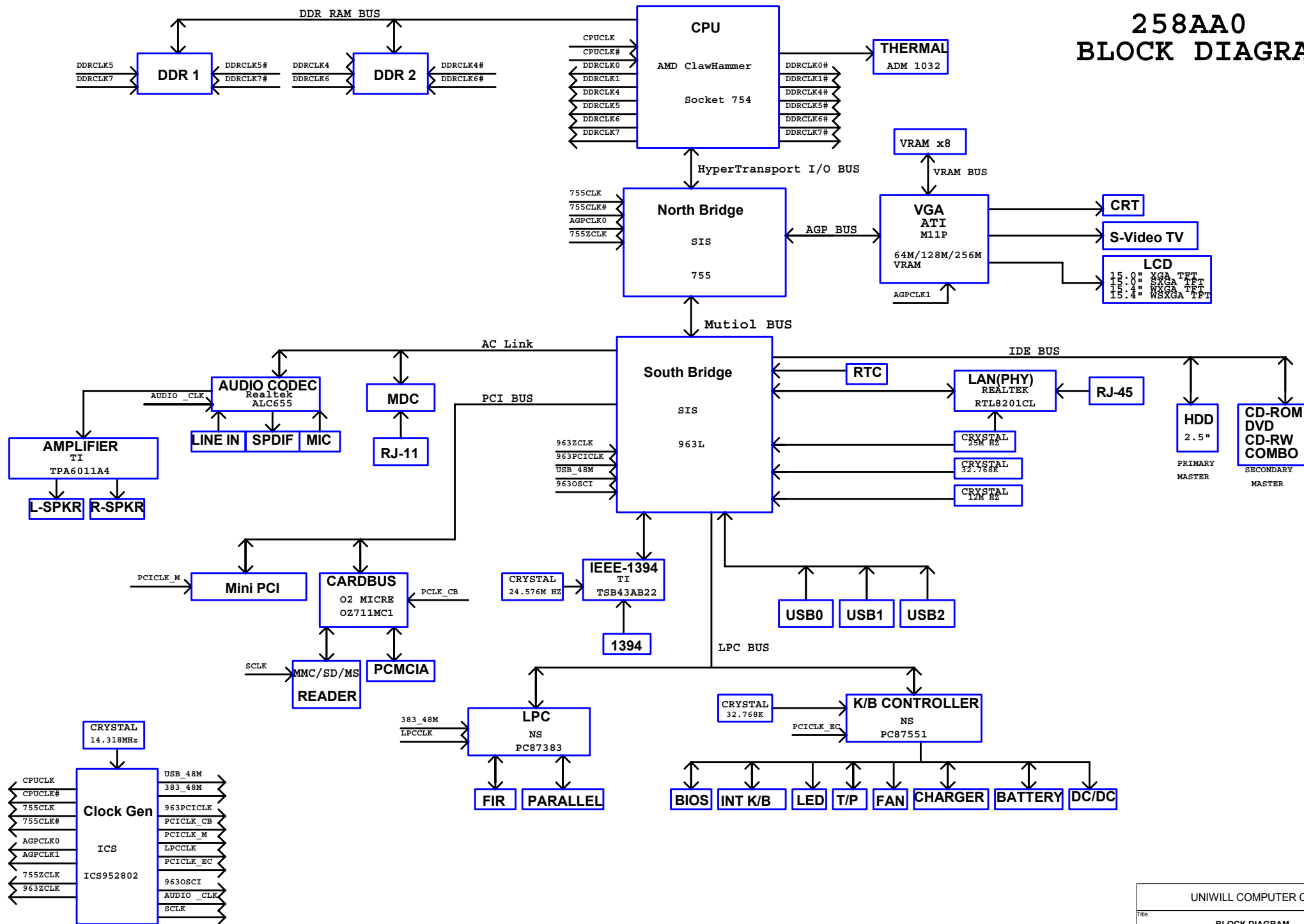
ALC655			
VCC	ICC (mA)	W	TEMP (°C)
+3V (DVDD)	71	0.234	70
+3V (AMPVDD)	36	0.118	

ADM1032			
VCC	ICC	W	TEMP (°C)
+3V	170uA	0.56mW	150

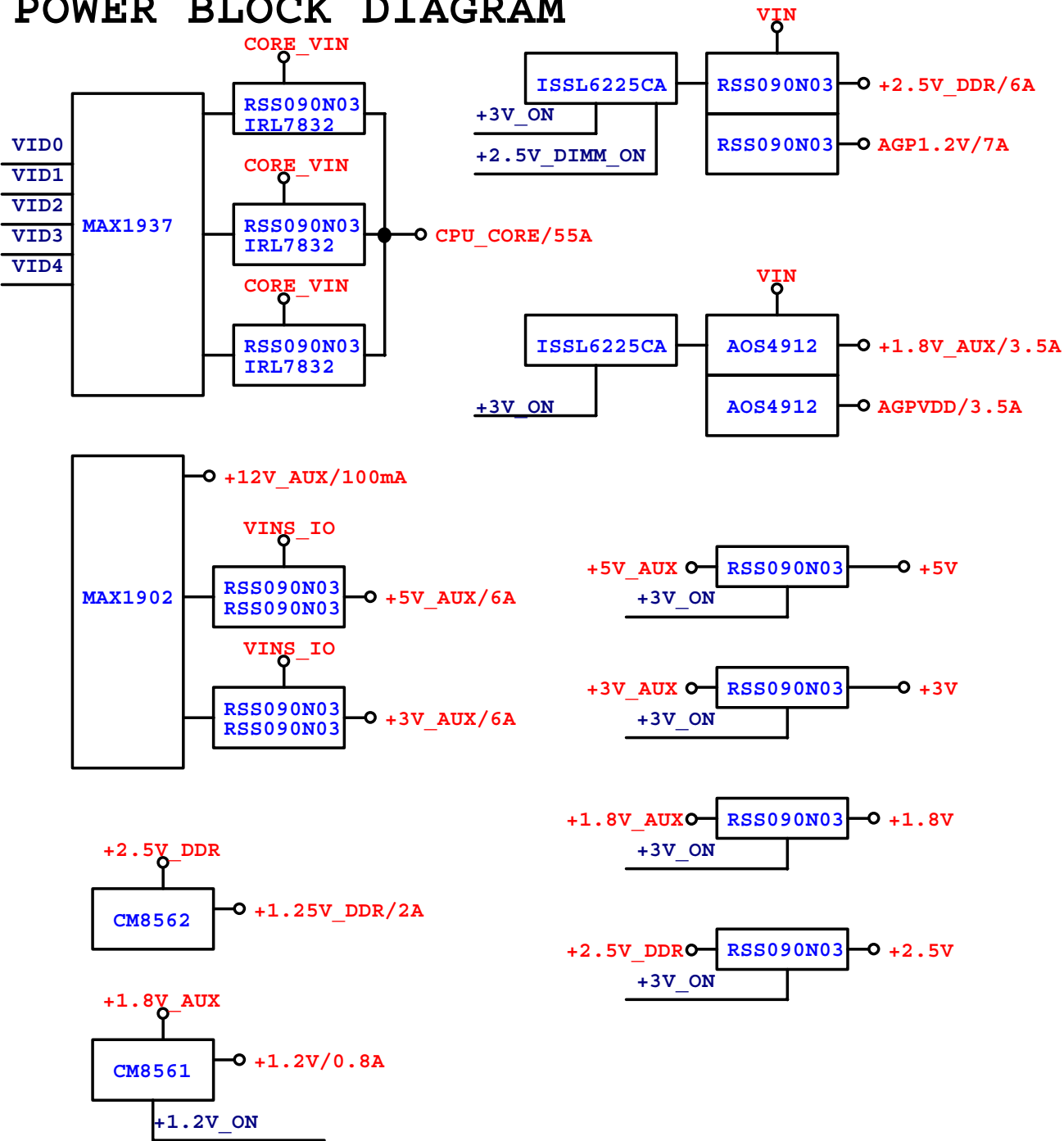
OZ711MC1			
VCC	ICC (mA)	W	TEMP (°C)
+3V	30	0.1	70

UNIWILL COMPUTER CORP.			
Title GPIO DEFINITION & POWER CONSUMPTION			
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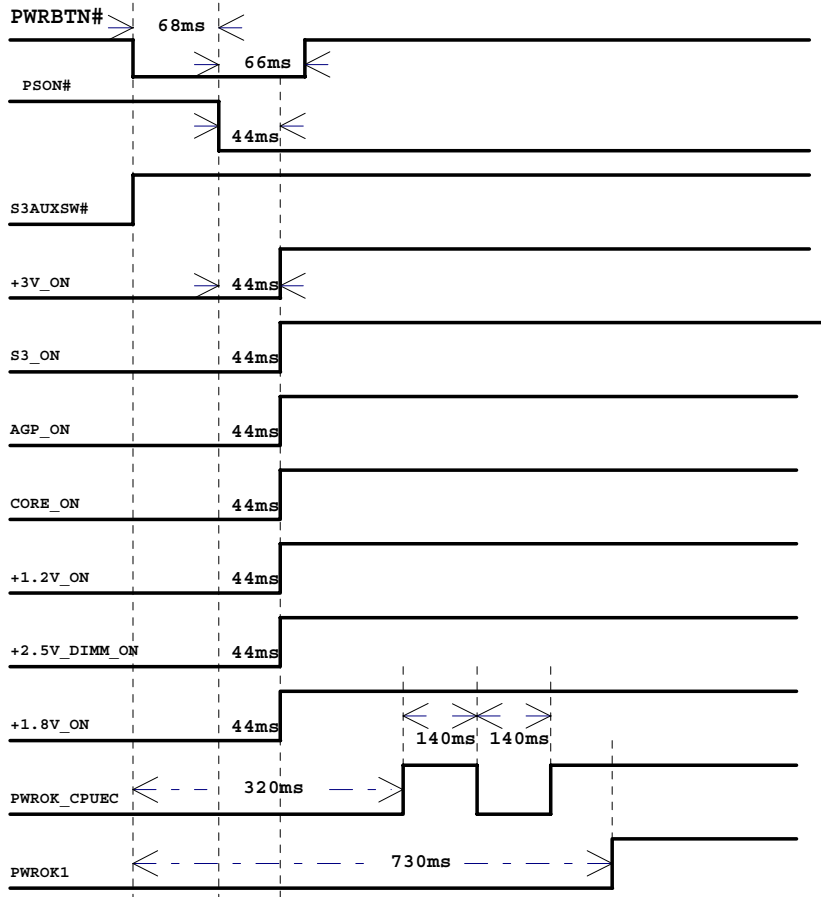
258AA0
BLOCK DIAGRAM

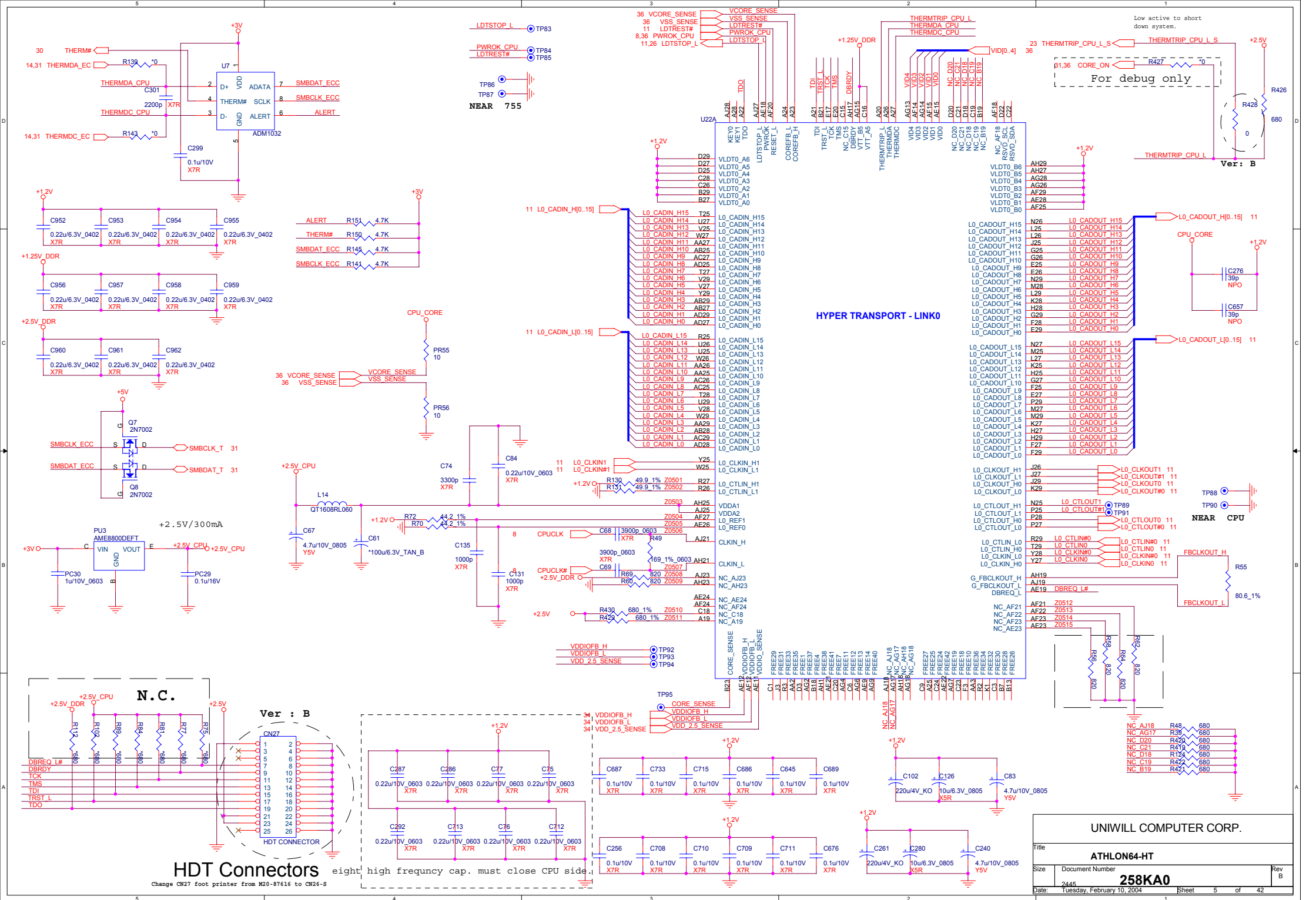


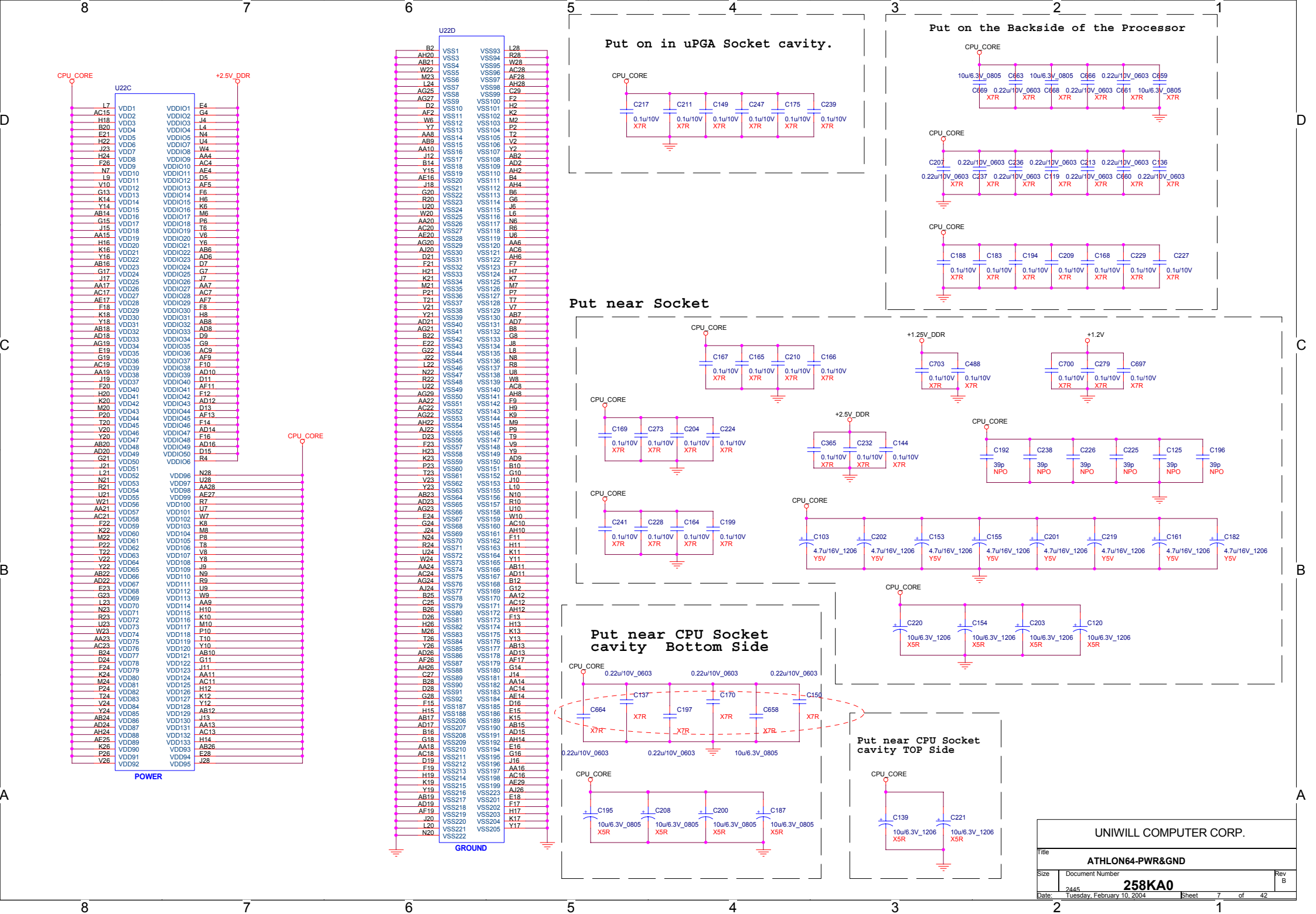
POWER BLOCK DIAGRAM



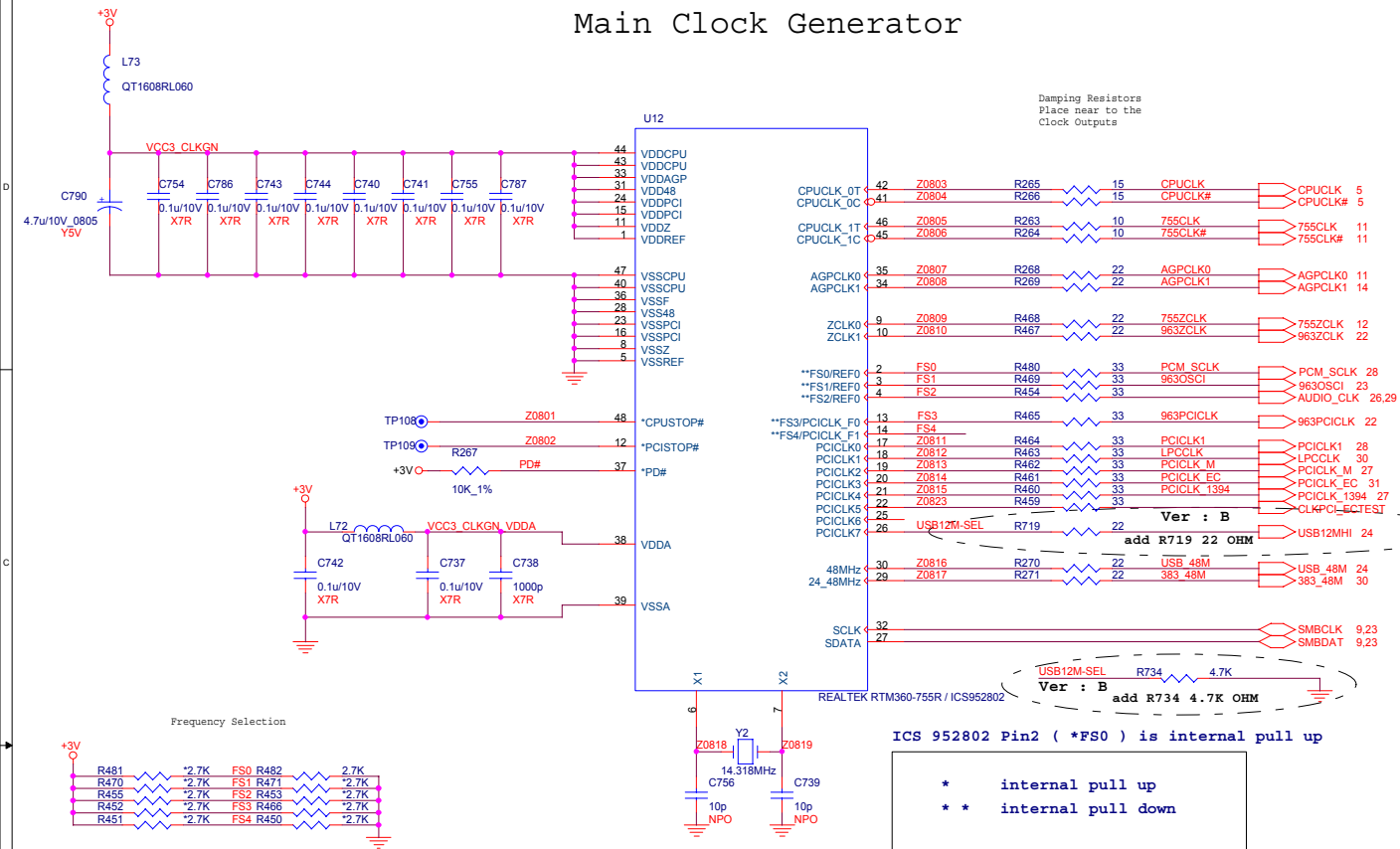
POWER ON SEQUENCE





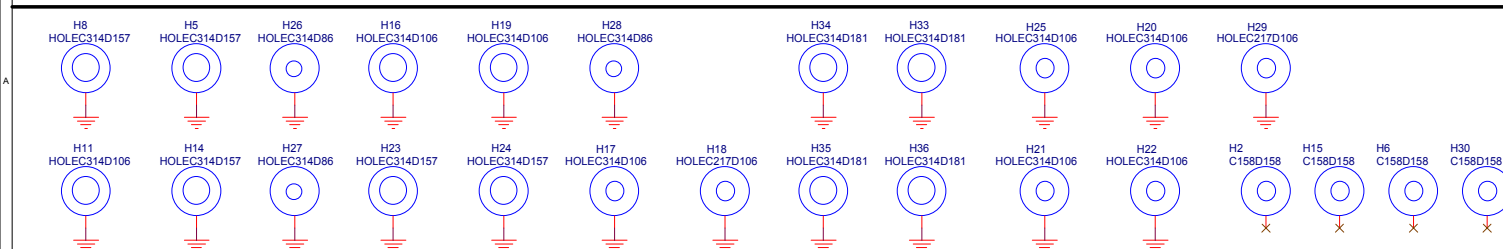


Main Clock Generator



CLK Table for SiS755/760 (For ICS-952801)

S18 755/760 CLOCK										S18 755/760 CLOCK									
(FS4)	(FS3)	(FS2)	(FS1)	(FS0)	CPU (MHz)	ZCLK (MHz)	AGPCLK (MHz)	PCI (MHz)		(FS4)	(FS3)	(FS2)	(FS1)	(FS0)	CPU (MHz)	ZCLK (MHz)	AGPCLK (MHz)	PCI (MHz)	
0	0	0	0	0	160.00	106.66	53.33	26.66		1	0	0	0	0	206.00	137.33	68.67	34.33	
0	0	0	0	1	200	133.33	66.67	33.33		1	0	0	0	1	210.00	140.00	70.00	35.00	
0	0	0	1	0	200	133.33	66.67	33.33		1	0	0	1	0	202.00	134.66	67.33	33.66	
0	0	0	0	1	200	160.00	66.67	33.33		1	0	0	1	0	202.00	161.60	67.33	33.66	
0	0	1	0	0	186.66	106.67	53.33	26.66		1	0	1	0	0	240.33	137.33	68.67	34.33	
0	0	1	0	1	233.33	133.33	66.67	33.33		1	0	1	0	1	245.00	140.00	70.00	35.00	
0	0	1	1	0	233.33	133.33	66.67	33.33		1	0	1	1	0	235.66	134.67	67.33	33.66	
0	0	1	1	1	233.33	155.55	66.67	33.33		1	0	1	1	1	235.66	157.11	67.33	33.66	
0	1	0	0	0	213.34	106.66	53.33	26.66		1	1	0	0	0	106.66	106.66	53.33	26.66	
0	1	0	0	1	266.67	133.33	66.67	33.33		1	1	0	0	1	133.33	133.33	66.67	33.33	
0	1	0	1	0	266.67	133.33	66.67	33.33		1	1	0	0	1	133.33	133.33	66.67	33.33	
0	1	0	1	1	266.67	160.00	66.67	33.33		1	1	0	1	1	133.33	177.77	66.67	33.33	
0	1	1	0	0	133.34	106.66	53.33	26.66		1	1	1	0	0	171.67	137.33	68.67	34.33	
0	1	1	0	1	166.67	133.33	66.67	33.33		1	1	1	0	1	175.00	140.00	70.00	35.00	
0	1	1	1	0	166.67	133.33	66.67	33.33		1	1	1	1	0	168.34	134.66	67.33	33.66	
0	1	1	1	1	166.67	166.66	66.67	33.33		1	1	1	1	1	168.34	166.33	66.67	33.66	



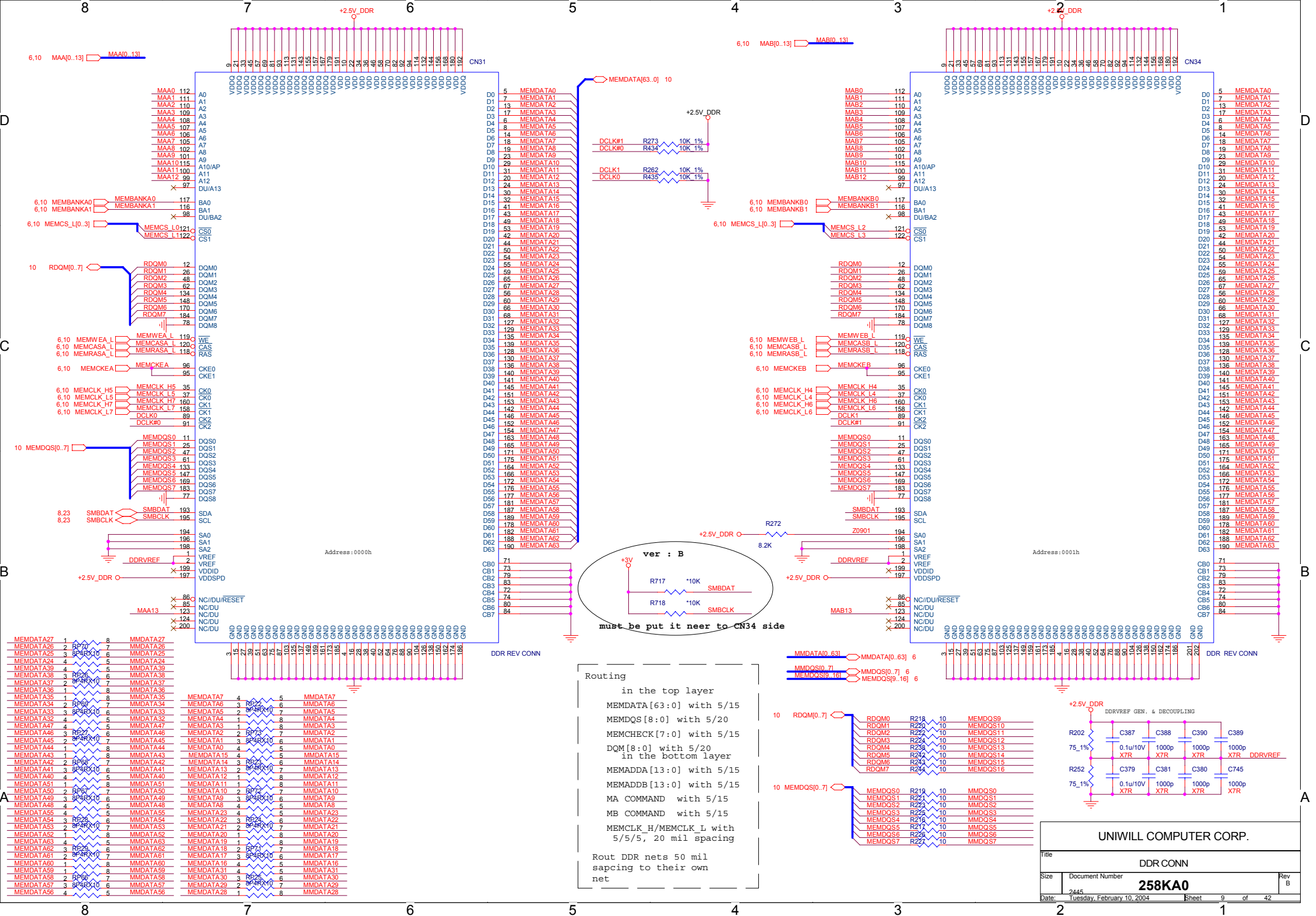
UNIWILL COMPUTER CORP.

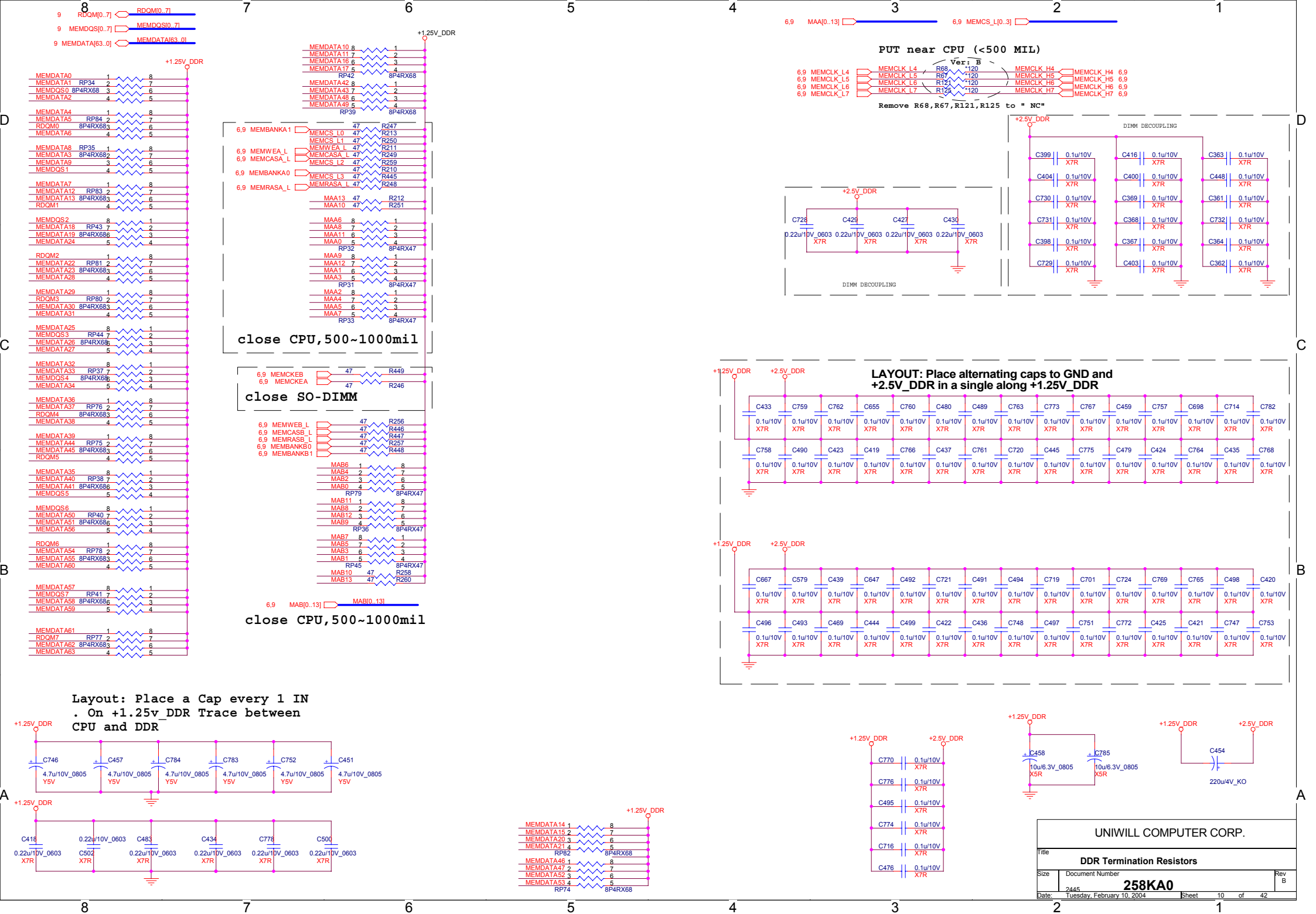
Title	CLOCK GENERATOR & PCB HOLE
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2445	258KA0
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The differences between the traces of MutIOL Strobes and Data should be smaller than 0.05"

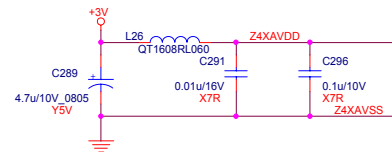
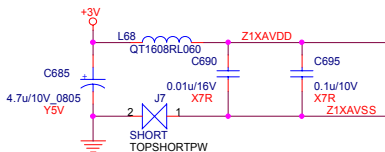
22 ZSTB0
22 ZSTB#0
22 ZSTB1
22 ZSTB#1

TP110
TP111
TP112
TP113
TP114
TP115
TP116
TP117
TP118
TP119
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TP121
TP122
TP123
TP124
TP125
TP126
TP127
TP128

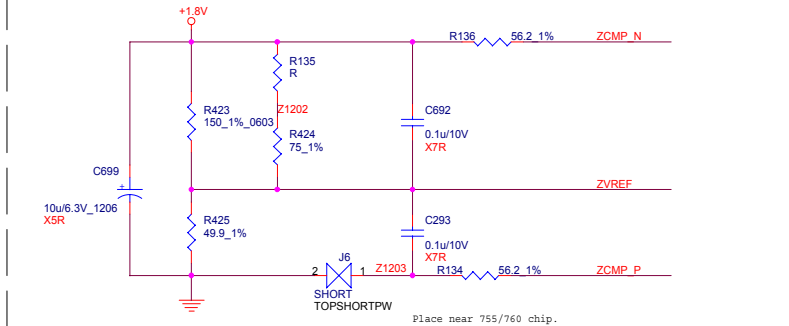
The differences between the traces of MutIOL Strobes and Data should be smaller than 0.05"

22 ZAD[0..16]

8.23 PWROK
14.22,27,28,30,31 PCIRST#



Mutiol 2.0(Mutiol 1G) R88 open
Mutiol 1.0(Mutiol 533M) R88 0 ohm



U23C

755-3

MuTIOL

VGA (For 760 Only)
Control & Hardware Trap

NC F8
NC A8
NC B8
NC A9
NC A10
NC B10
NC F9
NC E9
NC C8
NC C10
NC D10
NC E10
NC B8
NC D8
NC C8
NC A7
NC C7
NC B7
NC D7
NC E7
NC F7
NC C9
NC D9
NC V25
NC U28
NC V26
NC V28
NC W25
NC W24
NC V27
NC U29
NC V24
NC Z1201
NC R442
NC CPUDDLLEN#
NC TRAP0
NC TRAP1
NC TRAP2
NC TRAP3
NC TRAP4
NC ENTEST
NC DLEN#

+1.8V R443 4.7K CPUDDLLEN#

DB0 TP129
DB1 TP130
DB2 TP131
DB3 TP132
DB4 TP133
DB5 TP134
DB6 TP135
DB7 TP136
DB8 TP137
DB9 TP138
DB10 TP139
DB11 TP140
DB12 TP141
DB13 TP142
DB14 TP143
DB15 TP144

U23B

NC AA27
NC AB28
NC AC29
NC AB26
NC DB1
NC AA26
NC AA25
NC Y25
NC Y24
NC DB0
NC AA29
NC AF28
NC AH28
NC AC27
NC AH27
NC DB3
NC AE28
NC AD25
NC AD24
NC AE26
NC AG29
NC AG27
NC AD29
NC AD28
NC AD27
NC AE29
NC AC28
NC DB2
NC AB24
NC AE27
NC AF29
NC AJ27
NC AG26
NC AJ26
NC AG25
NC AH25
NC AG24
NC AF24
NC DB5
NC AE23
NC AF23
NC AJ24
NC AJ15
NC AG16
NC AH16
NC AE16
NC DB11
NC AD16
NC AF17
NC AD17
NC AE18
NC AJ17
NC AG11
NC AJ11
NC AG12
NC AH12
NC DB14
NC AF11
NC AD11
NC AE12
NC AD12
NC AE13
NC AJ12
NC AG15
NC AJ14
NC AH14
NC AJ13
NC DB12
NC AE15
NC AF14
NC AD14
NC AE13
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NC AJ10
NC AH10
NC AJ9
NC AG8
NC AE10
NC AE10
NC AD10
NC AF9
NC AD8
NC AH8
NC NC

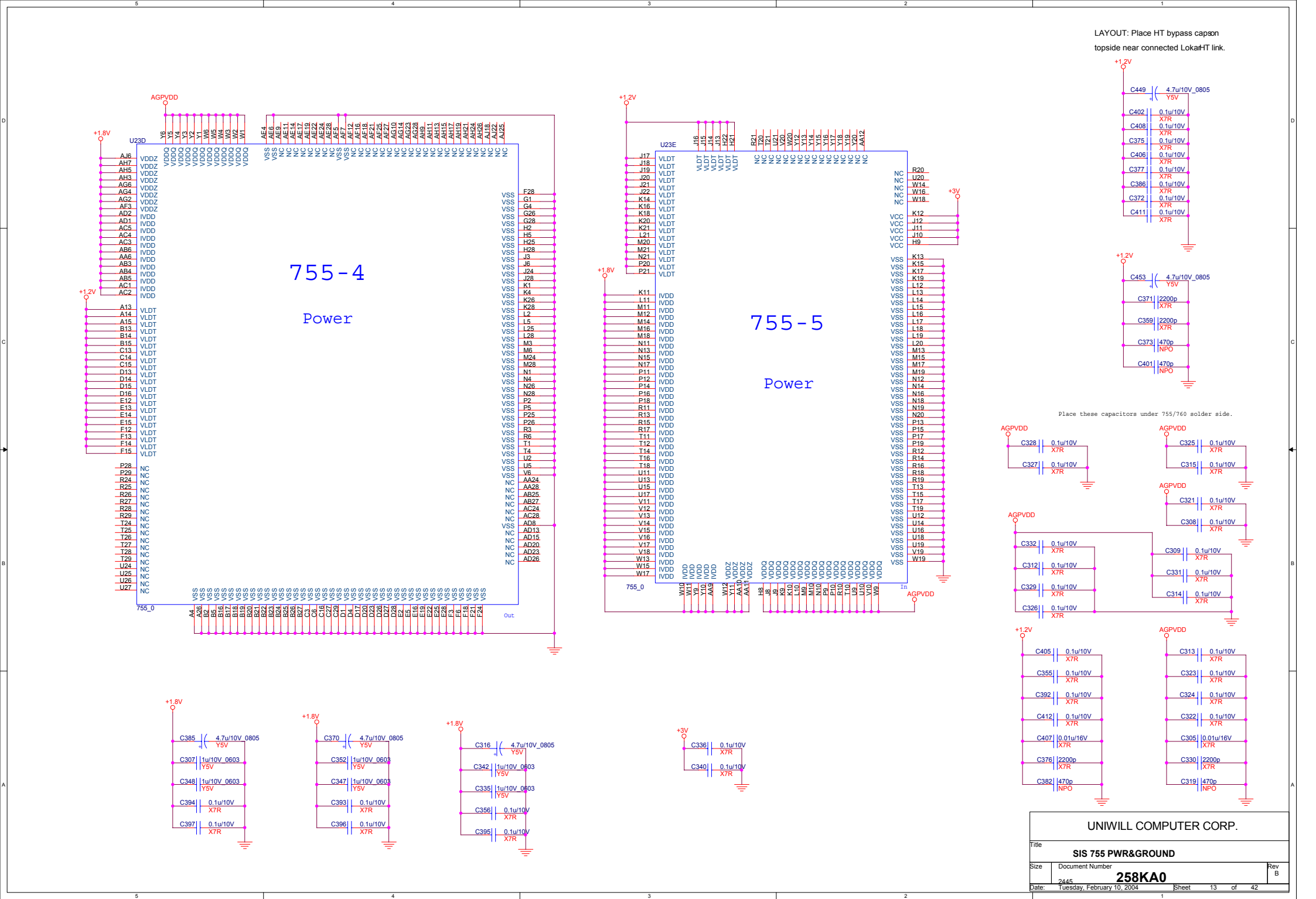
755-2

NC AJ21
NC AG22
NC AH22
NC AJ23
NC AH23
NC AD22
NC AF22
NC DB6
NC AD21
NC AG21
NC AE21
NC AE20
NC DB7
NC AH20
NC AJ20
NC NC
NC AH18
NC AG19
NC AJ19
NC NC
NC AG18
NC AD19
NC DB8
NC AG17
NC AD18
NC DB9
NC AF19
NC AG20
NC NC
NC W26
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NC AJ8
NC Y29
NC NC
NC W28
NC W29
NC NC
NC W27

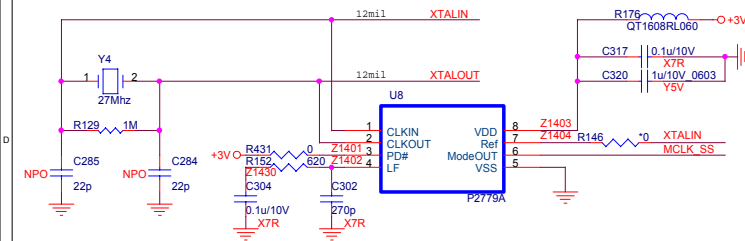
755_0

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Title			SIS 755 MUTIOL&Control&HW Trap		
Size	Document Number				Rev
	2445 258KA0				B
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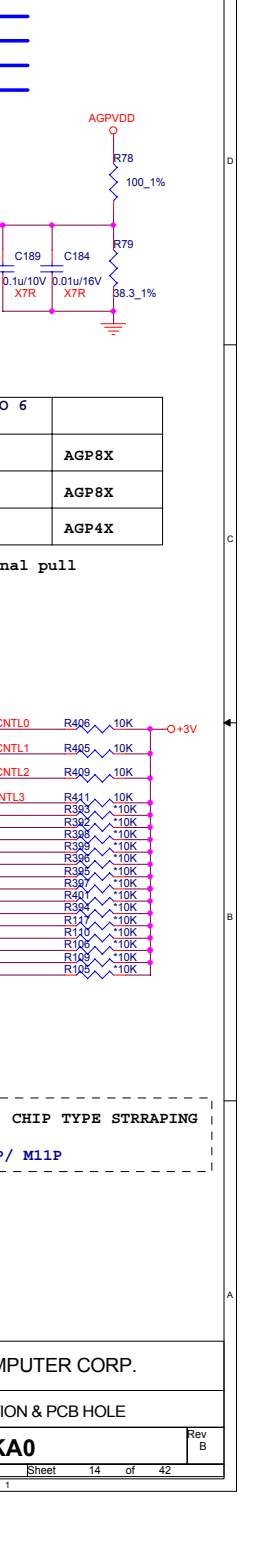
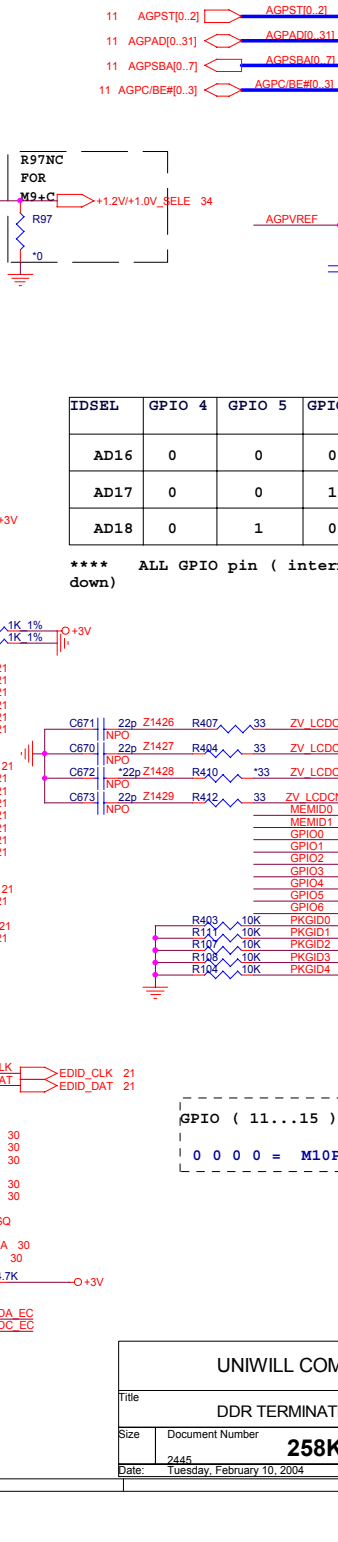
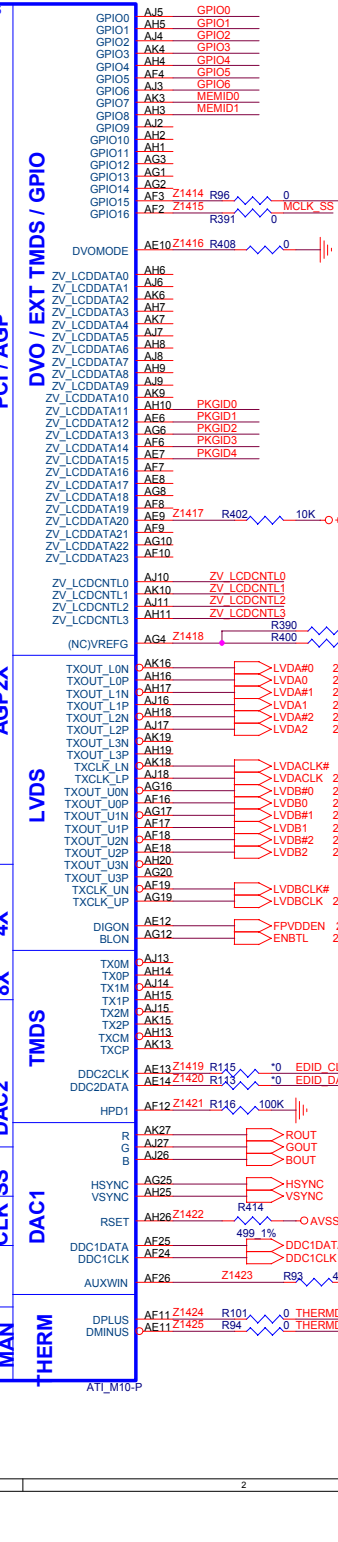
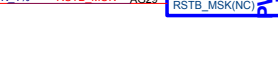
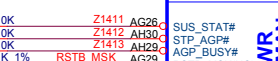
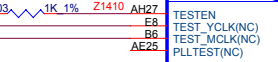
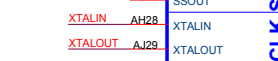
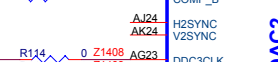
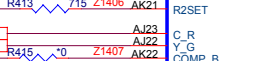
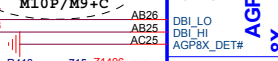
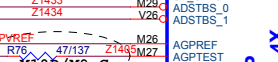
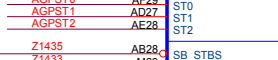
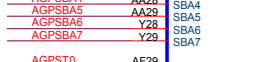
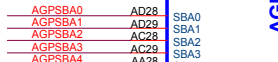
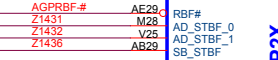
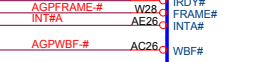
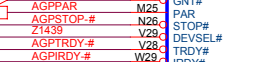
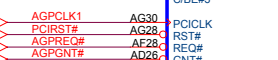
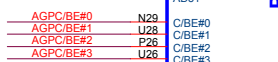
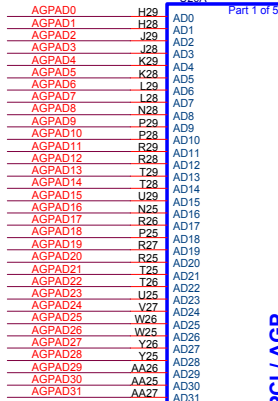
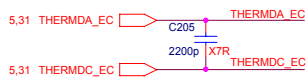


MCLK SPREAD SPECTRUM



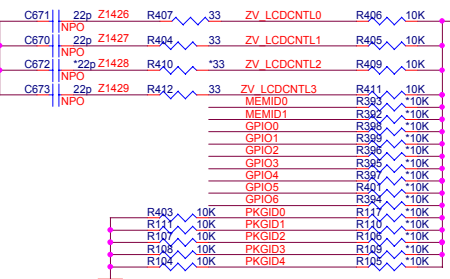
SPREAD	C304	C304	R152
+ - 0.5%	270pF	100pF	620
+ - 0.75%	270pF	100pF	1K
+ - 1%	270pF	6800pF	1.2K
+ - 1.25%	330pF	3300pF	1.2K

THERMAL SENSOR



IDSEL	GPIO 4	GPIO 5	GPIO 6	
AD16	0	0	0	AGP8X
AD17	0	0	1	AGP8X
AD18	0	1	0	AGP4X

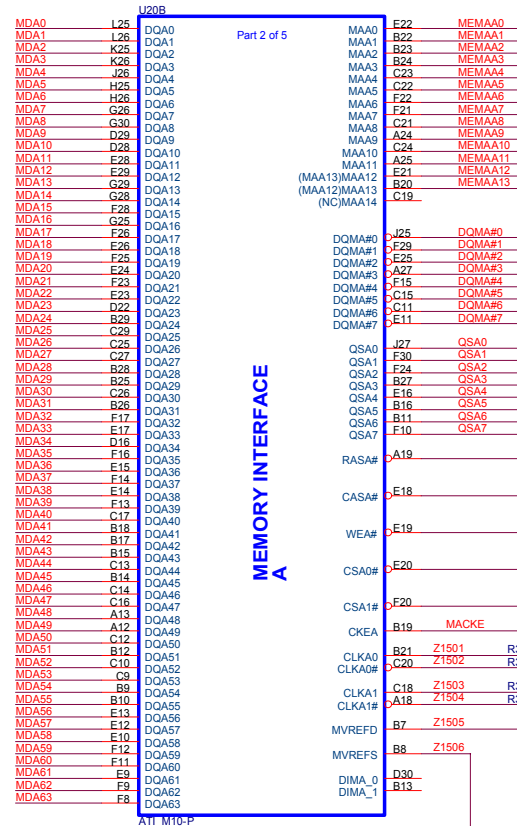
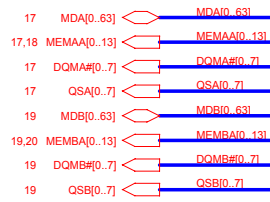
**** ALL GPIO pin (internal pull down)



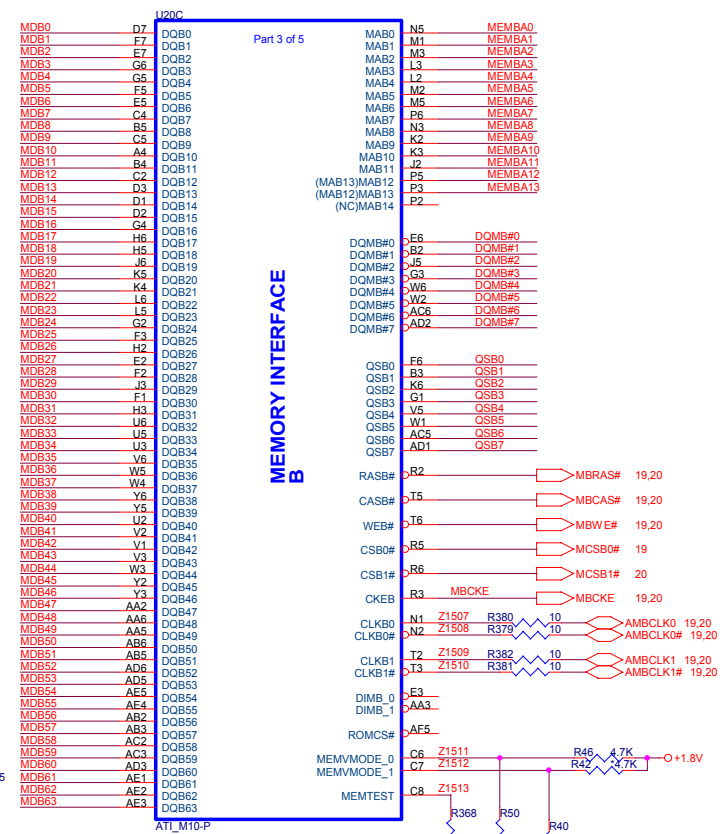
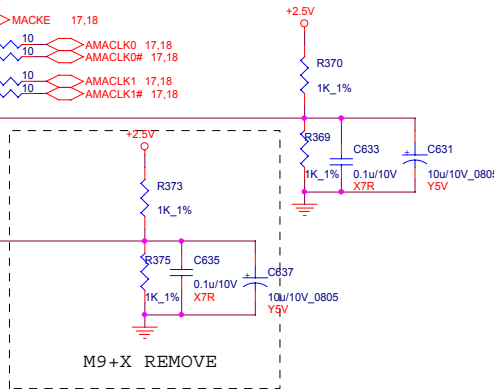
GPIO (11...15) CHIP TYPE STRAPPING
0 0 0 0 = M10P/ M11P

UNIWILL COMPUTER CORP.

Title		DDR TERMINATION & PCB HOLE	
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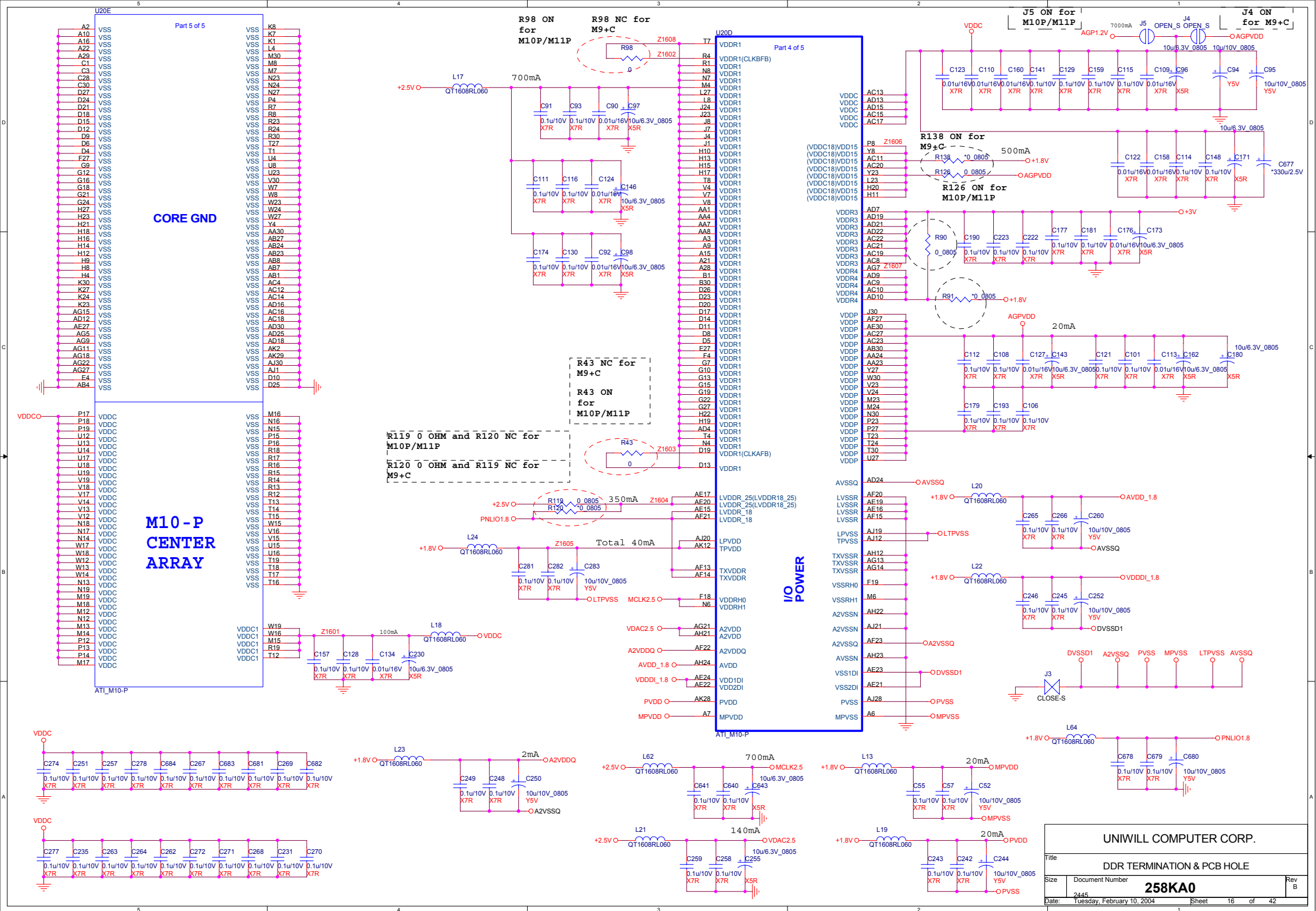


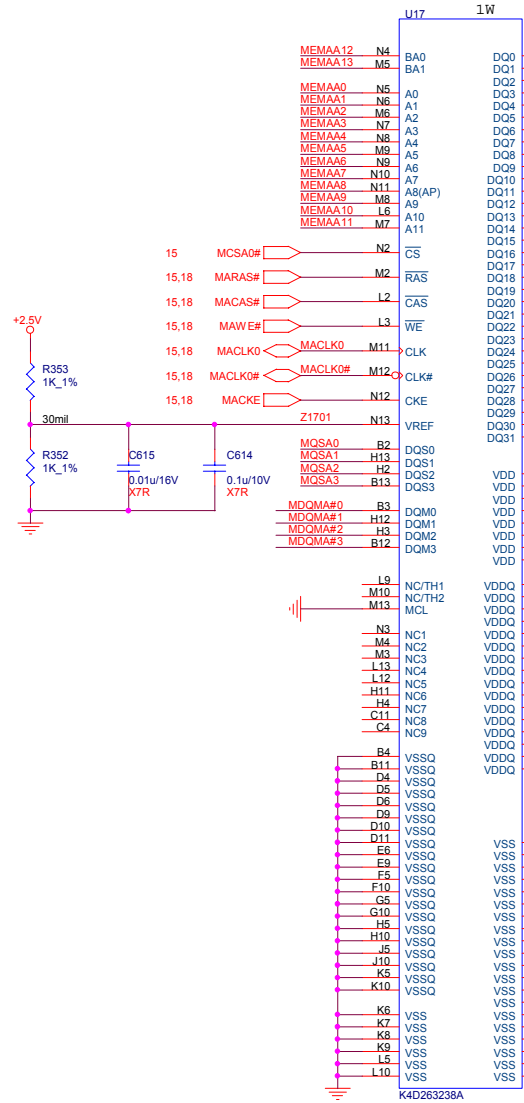
MEMORY INTERFACE A



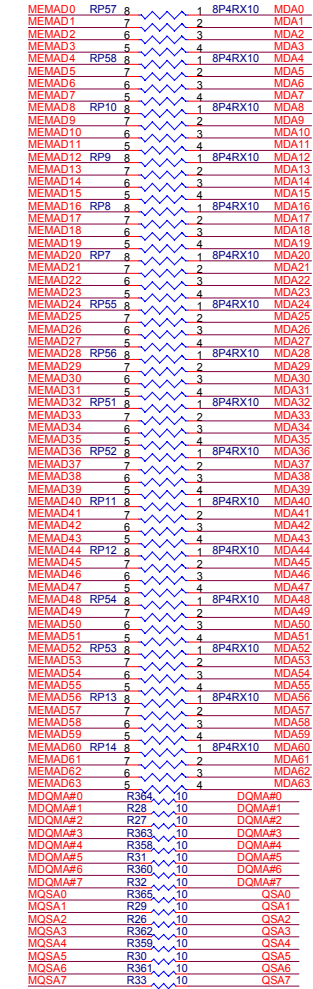
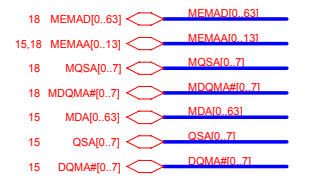
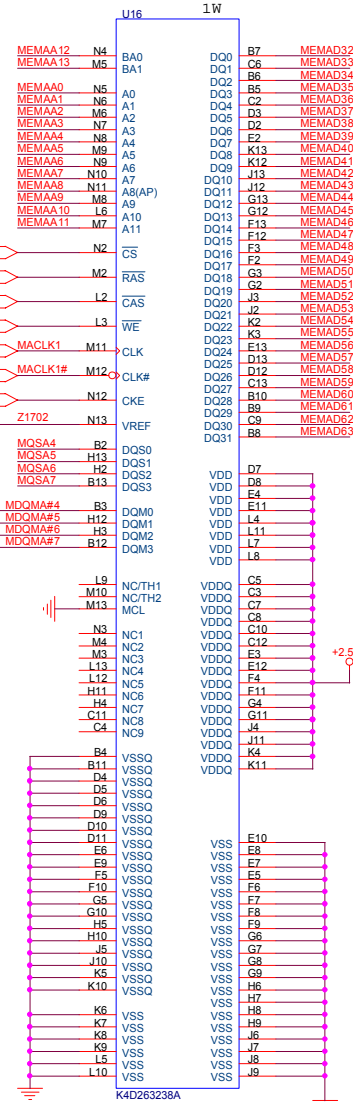
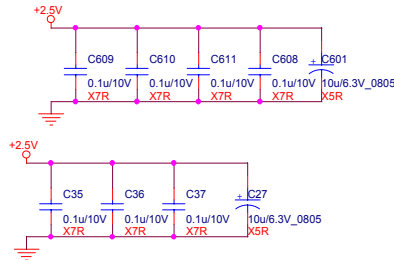
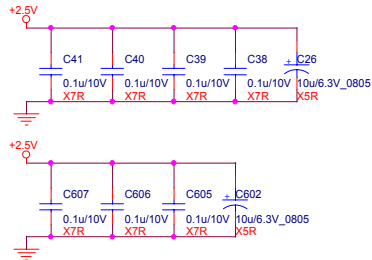
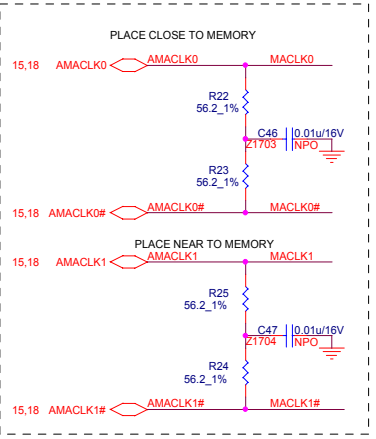
MEMORY INTERFACE B

UNIWILL COMPUTER CORP.		
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DDR TERMINATION & PCB HOLE		
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FOR M9+C THIS PAGE DOESN'T USE

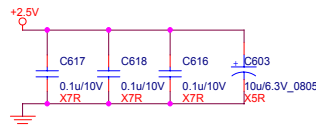
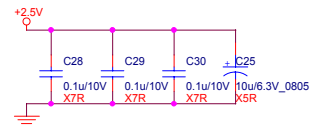
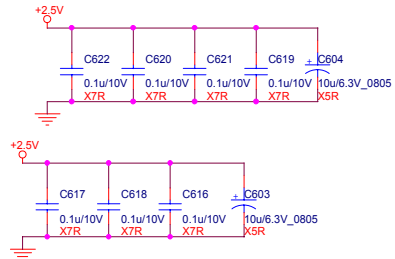
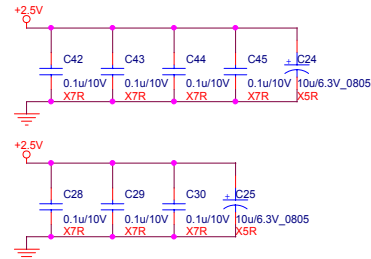
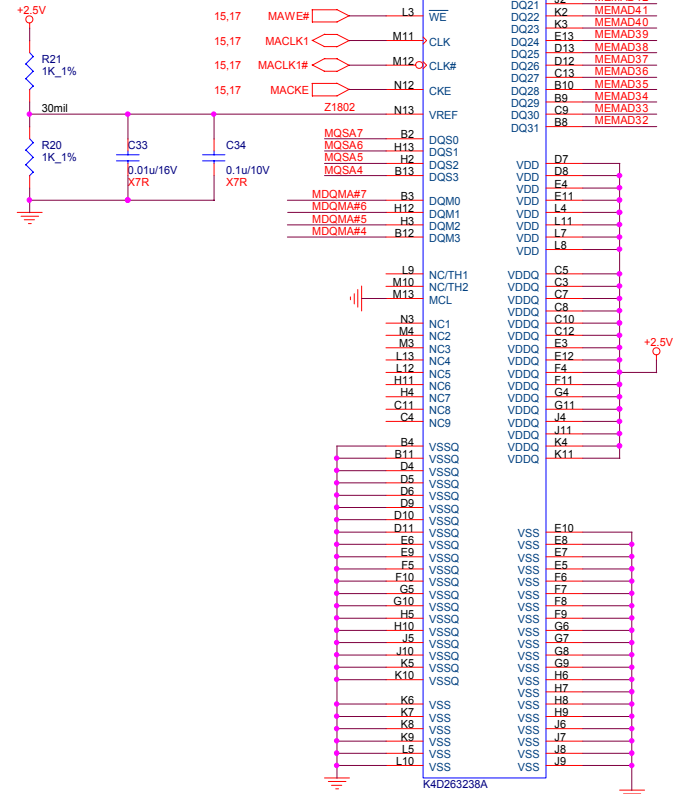
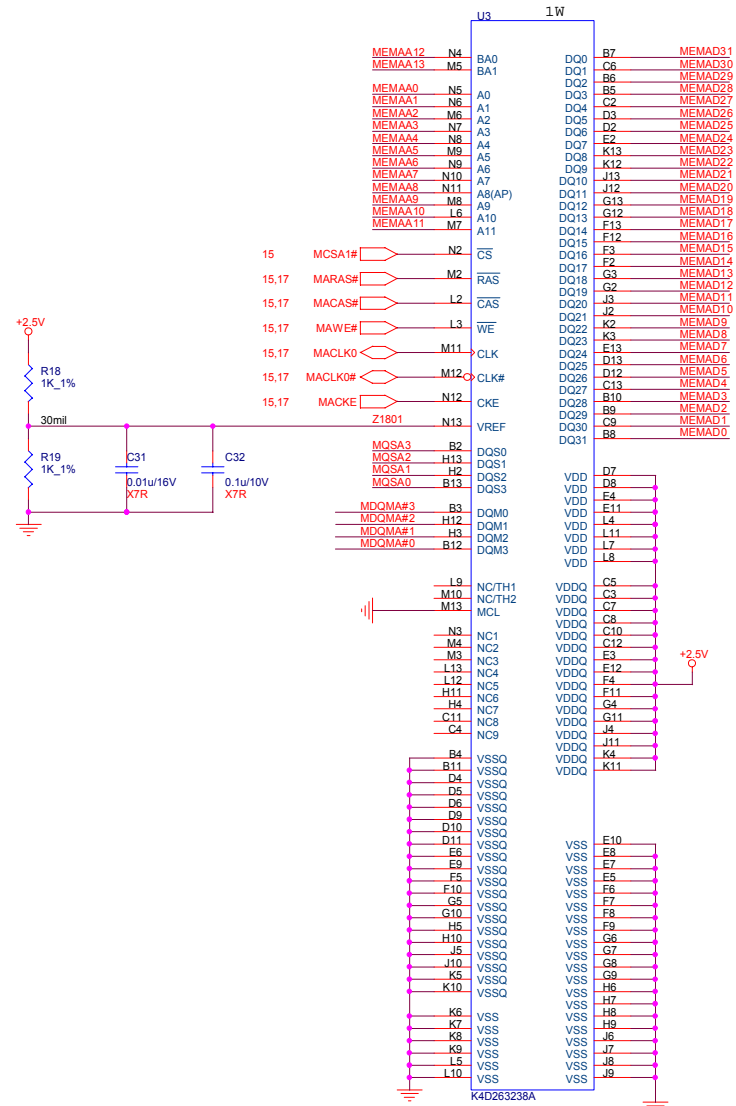


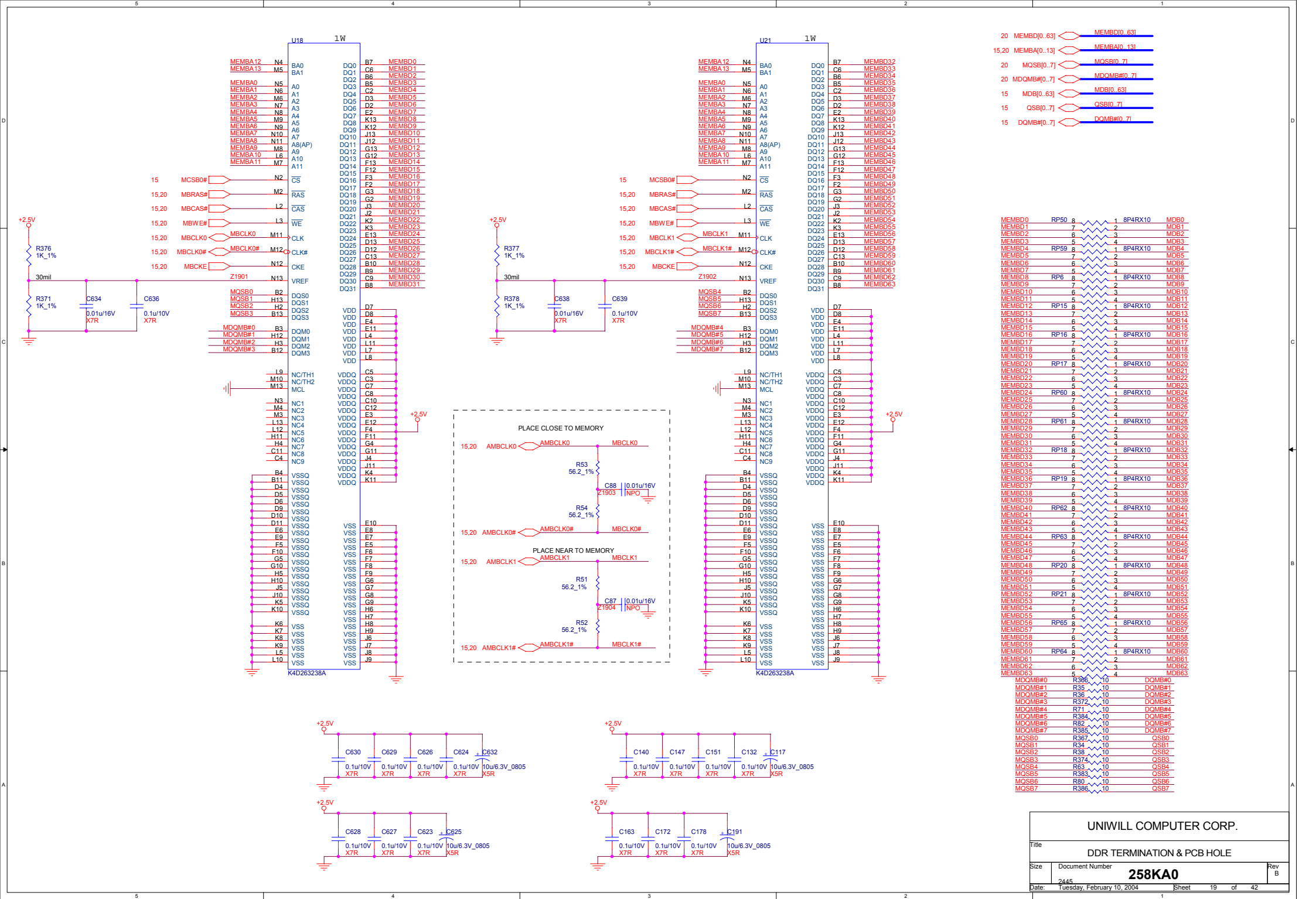
UNIWILL COMPUTER CORP.

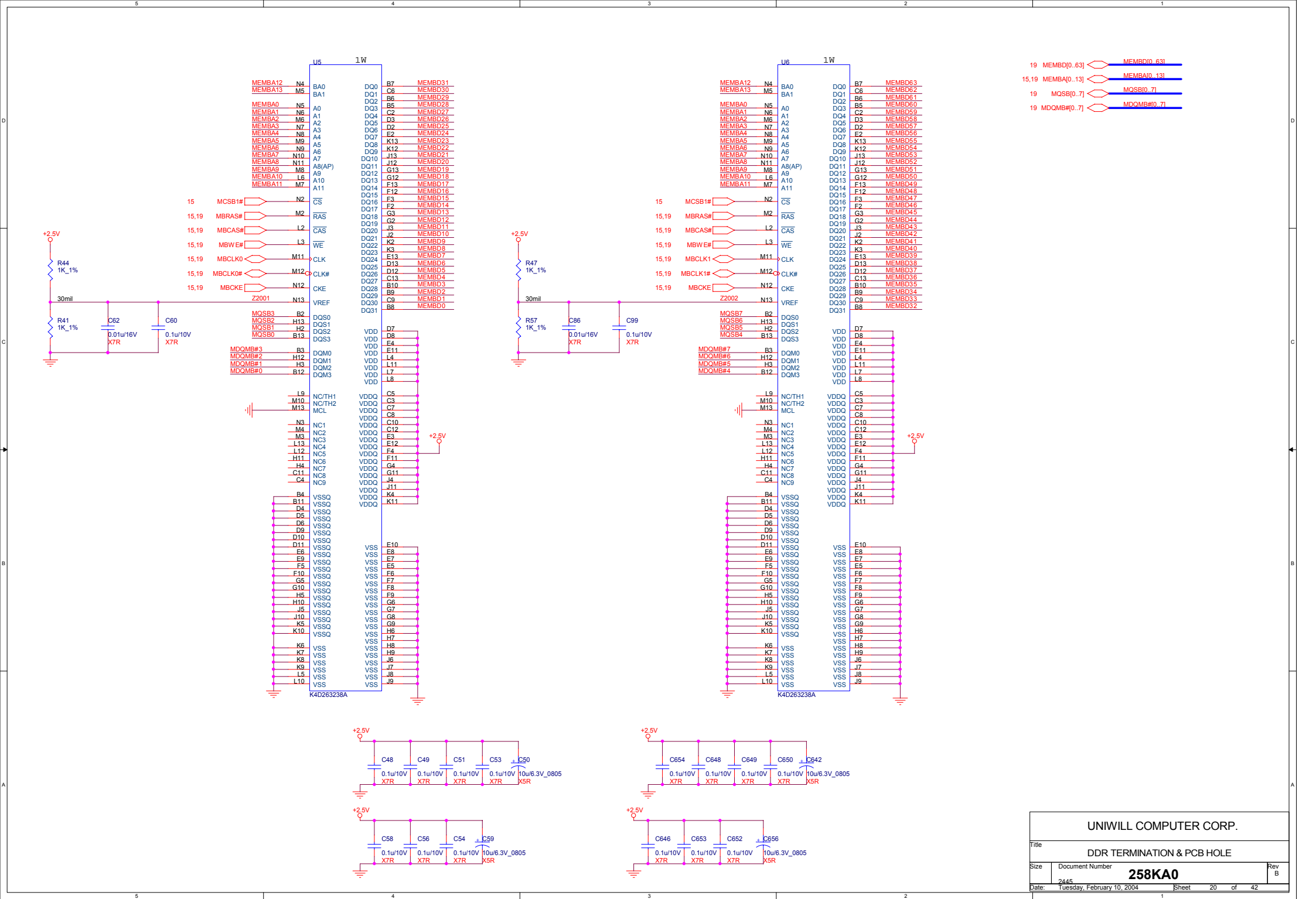
Title				
DDR TERMINATION & PCB HOLE				
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2445				
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FOR M9+C THIS PAGE DOESN'T USE

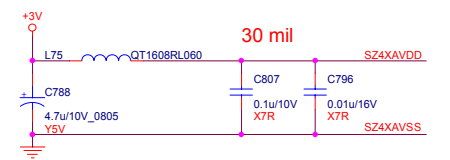
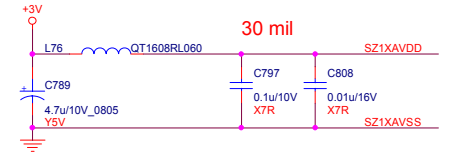
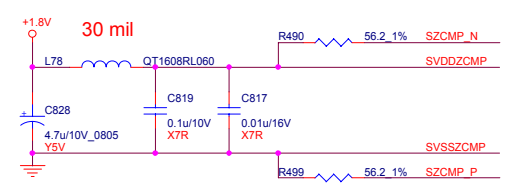
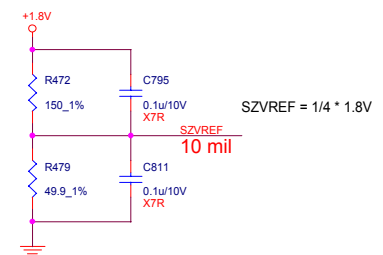
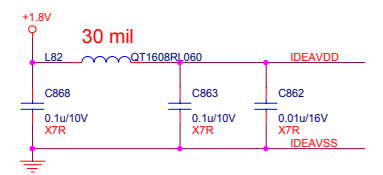
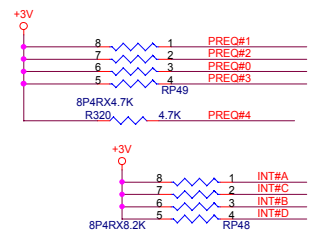
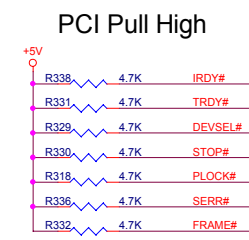
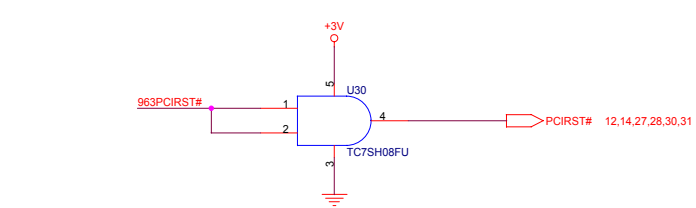
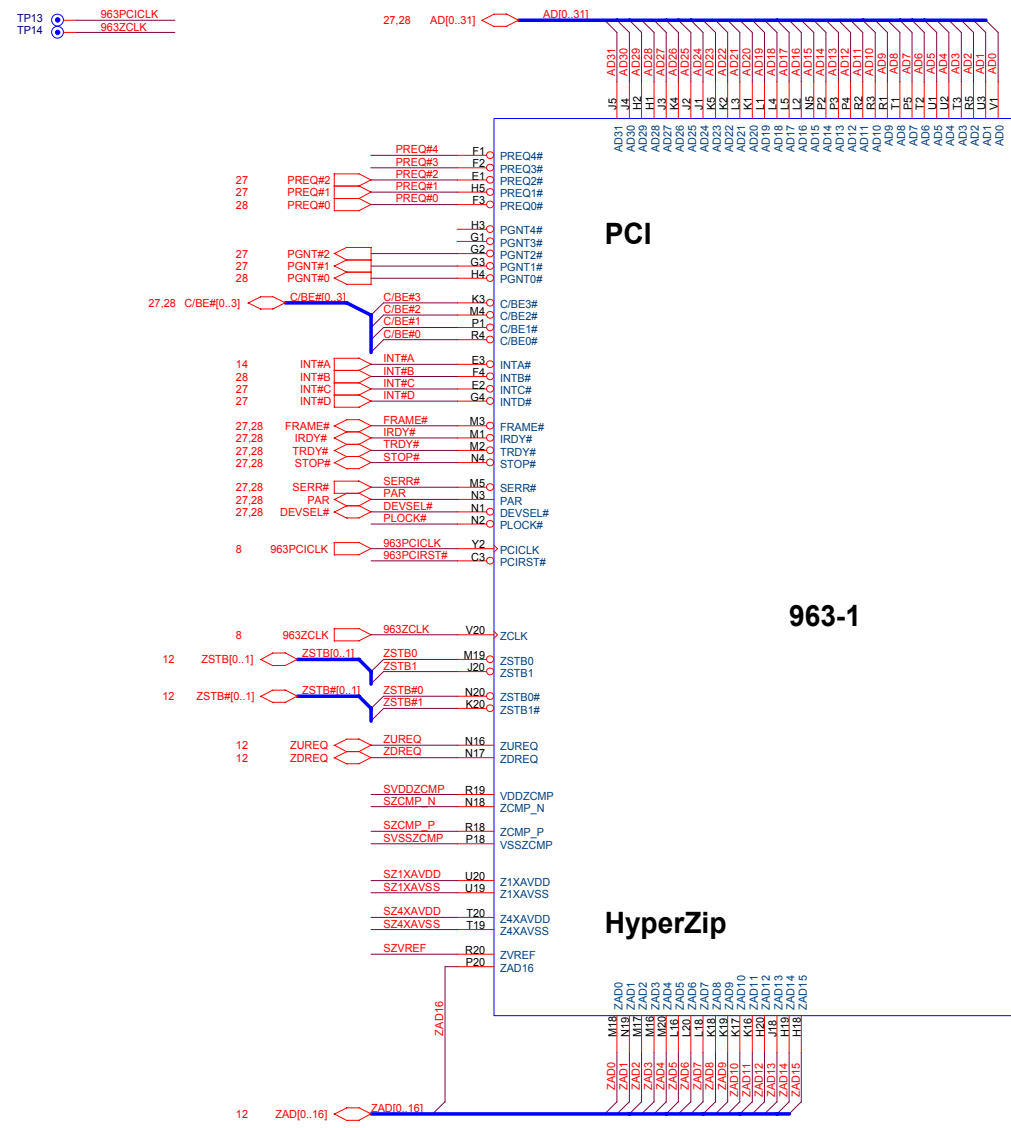
17 MEMAD[0..63] $\diamond$ MEMAD[0..63]
15,17 MEMAA[0..13] $\diamond$ MEMAA[0..13]
17 MQSA[0..7] $\diamond$ MQSA[0..7]
17 MDQMA[0..7] $\diamond$ MDQMA[0..7]





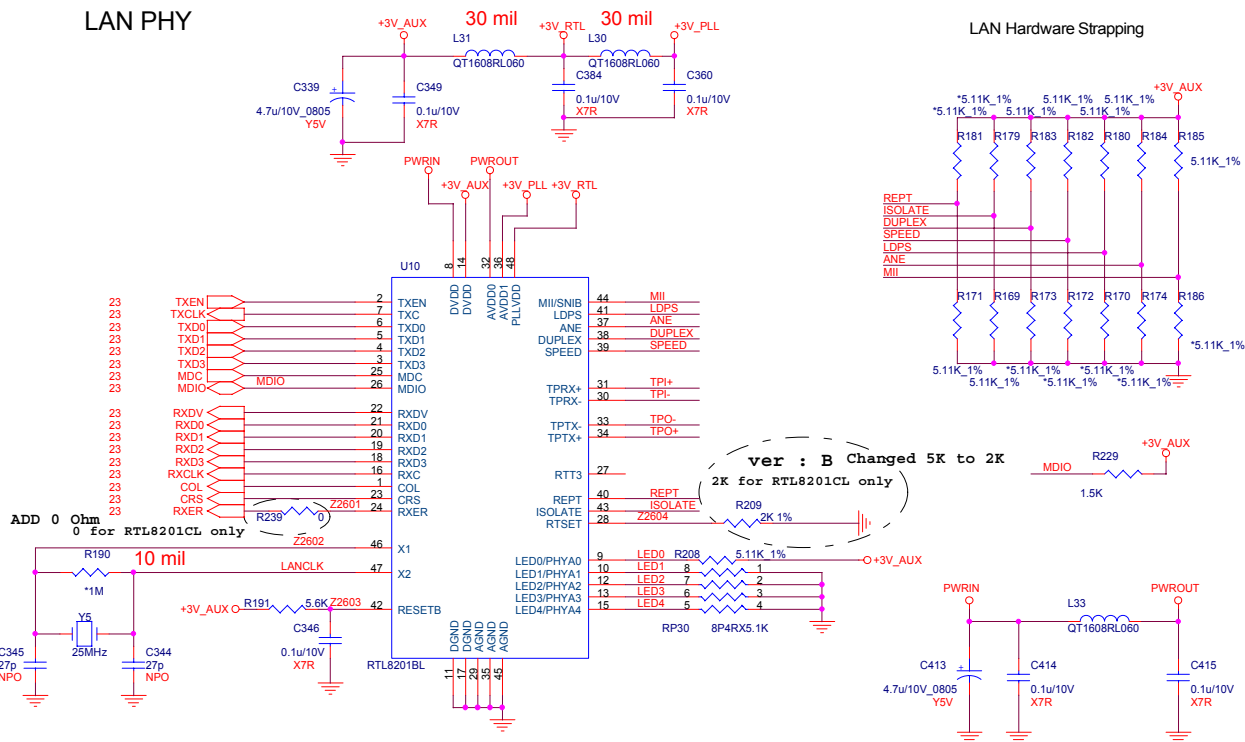


SOUTH BRIDGE -1

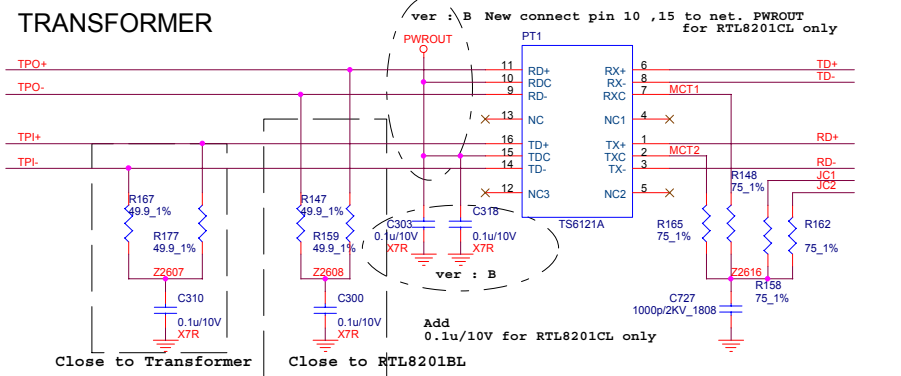


Title			
SIS963L(HYPERZIP & PCI & IDE)			
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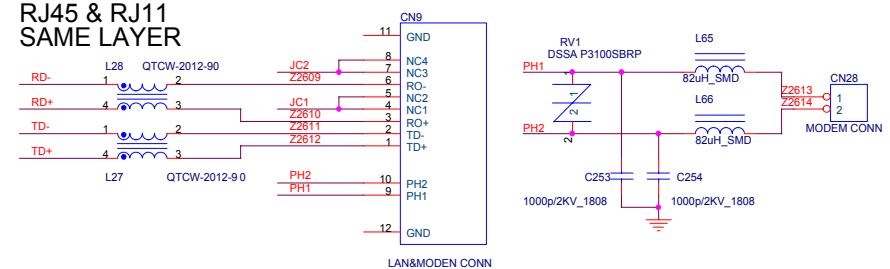
LAN PHY



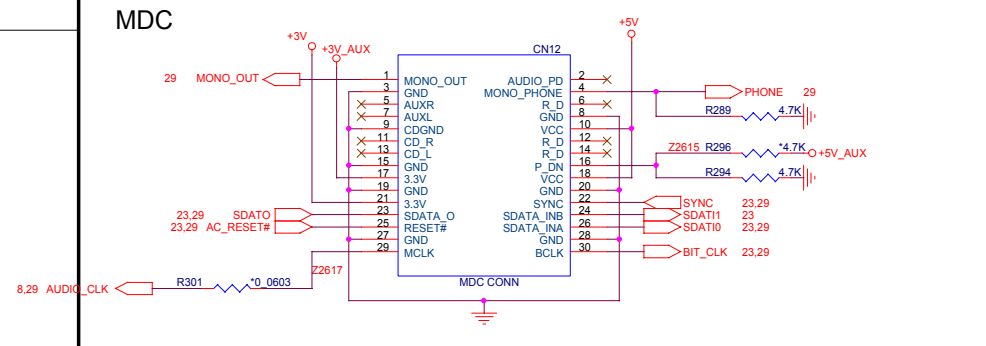
TRANSFORMER



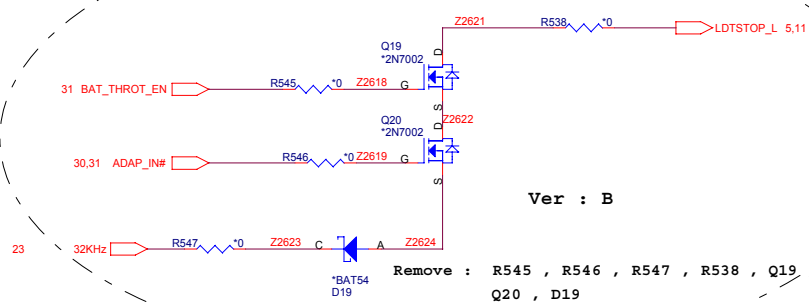
RJ45 & RJ11 SAME LAYER



MDC

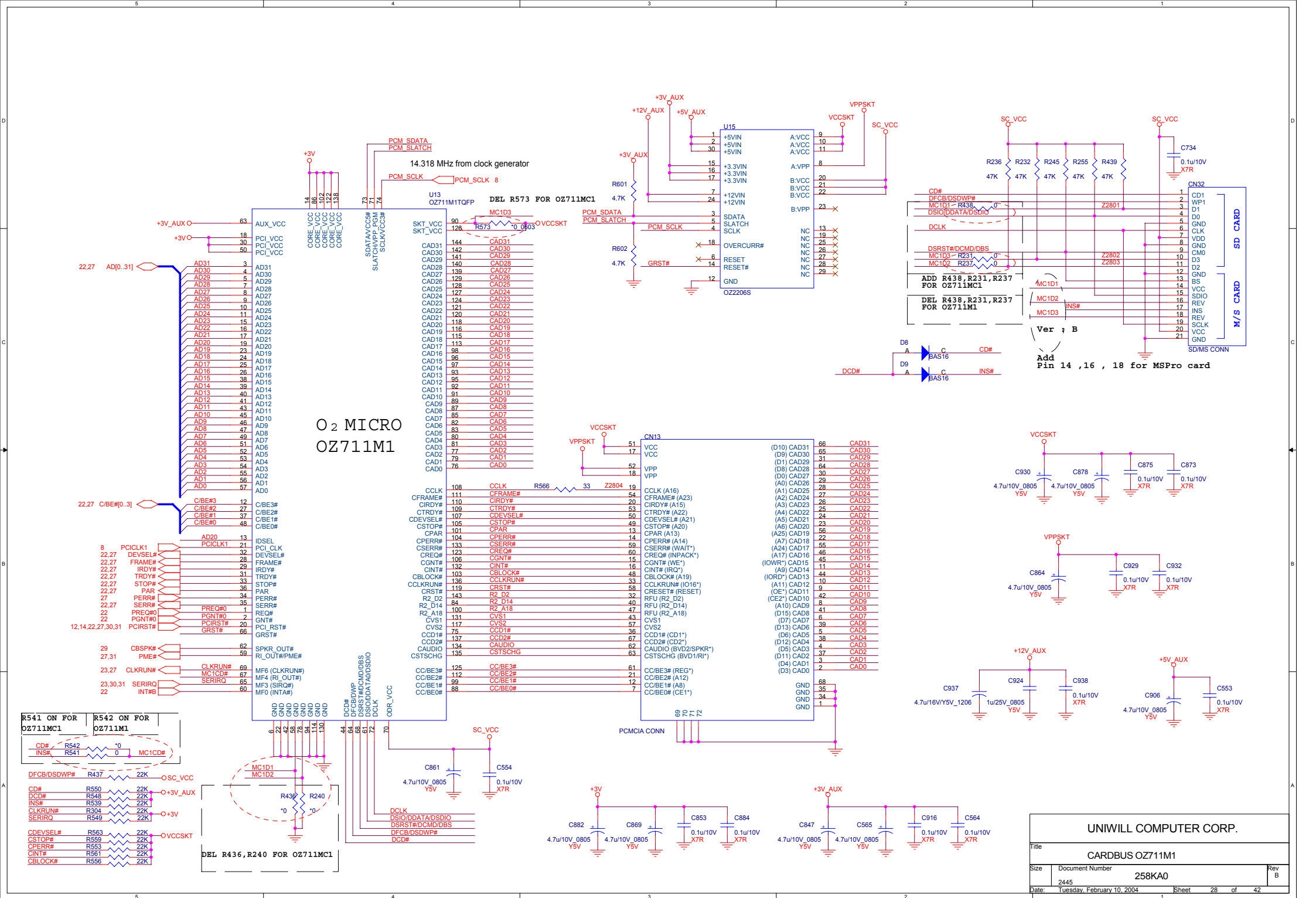


AMD THROTTERY MODE CONTROL

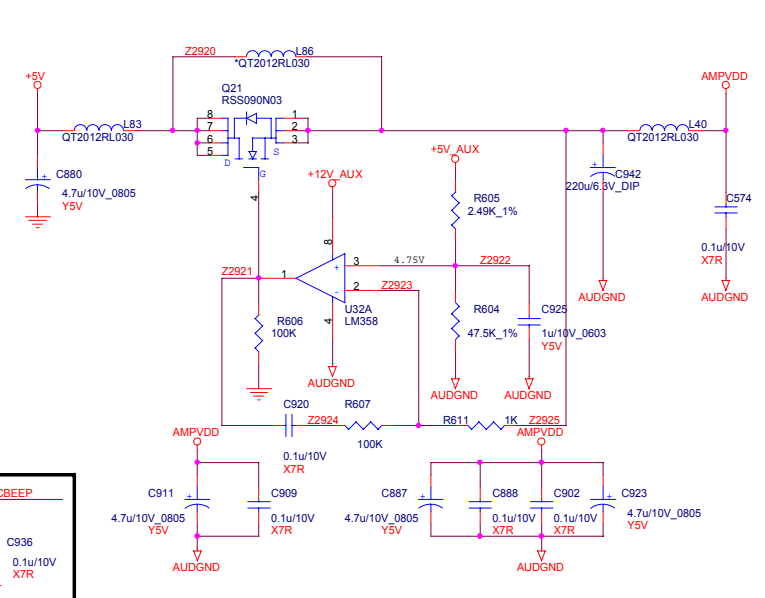
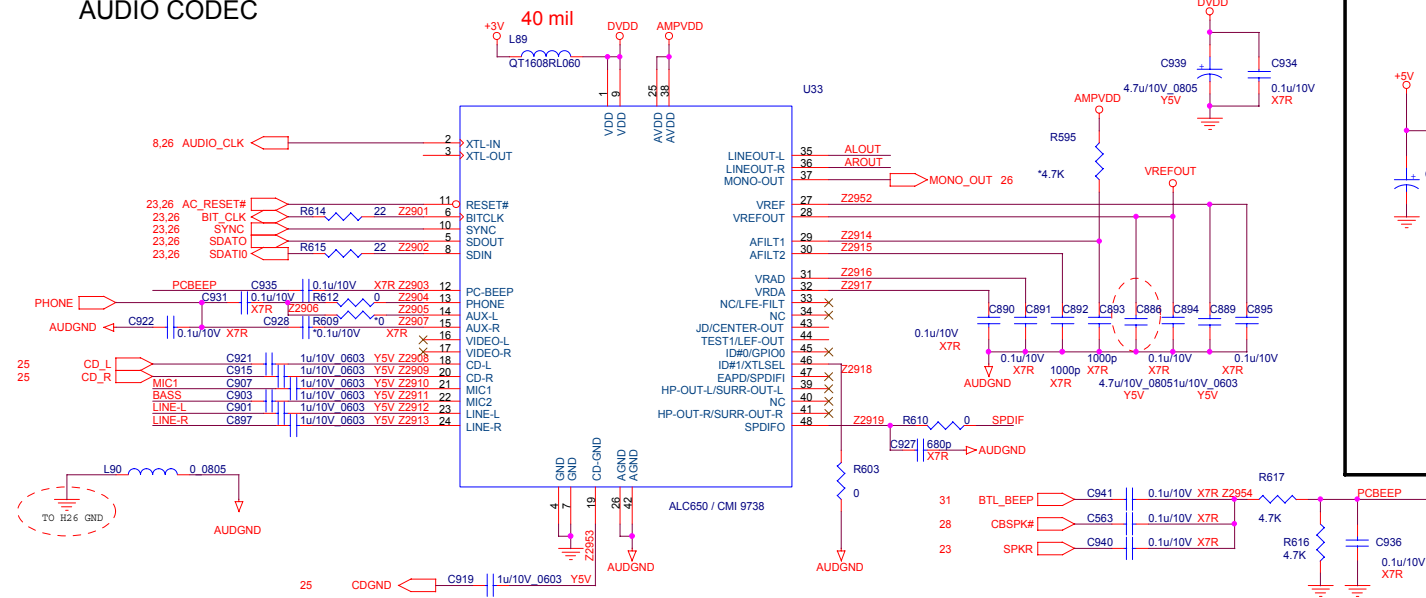


UNIWILL COMPUTER CORP.

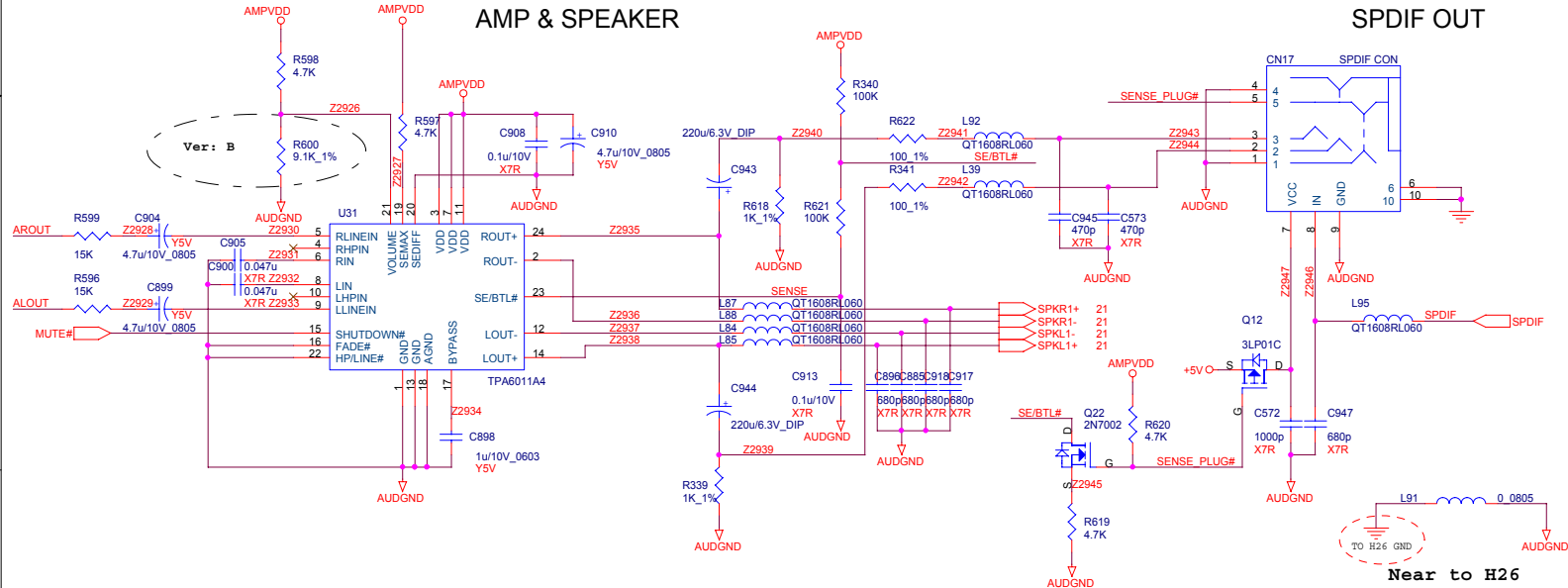
Title		
LAN(PHY) & MDC CONN & S/P		
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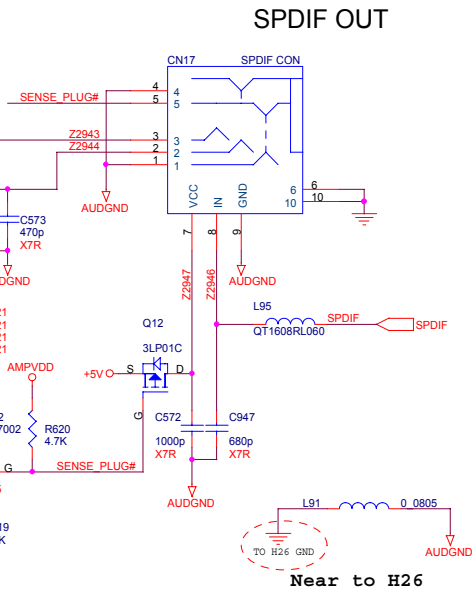
AUDIO CODEC



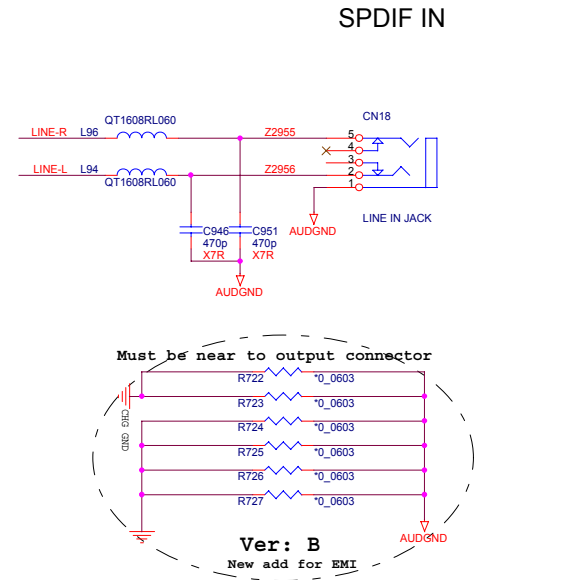
AMP & SPEAKER



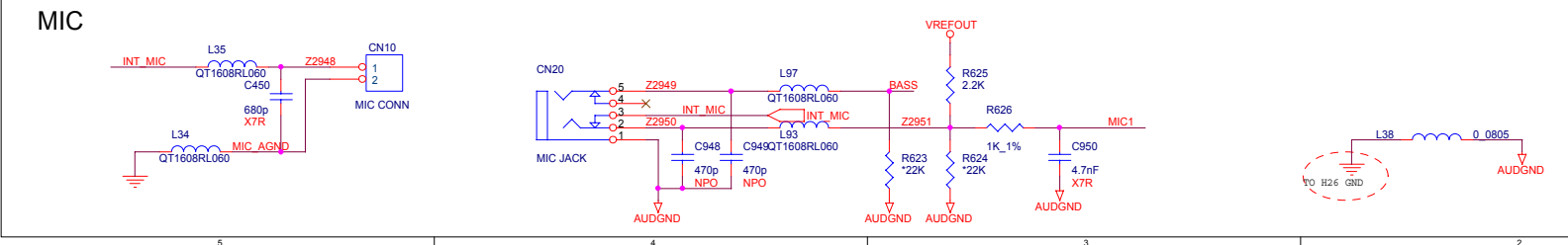
SPDIF OUT



SPDIF IN



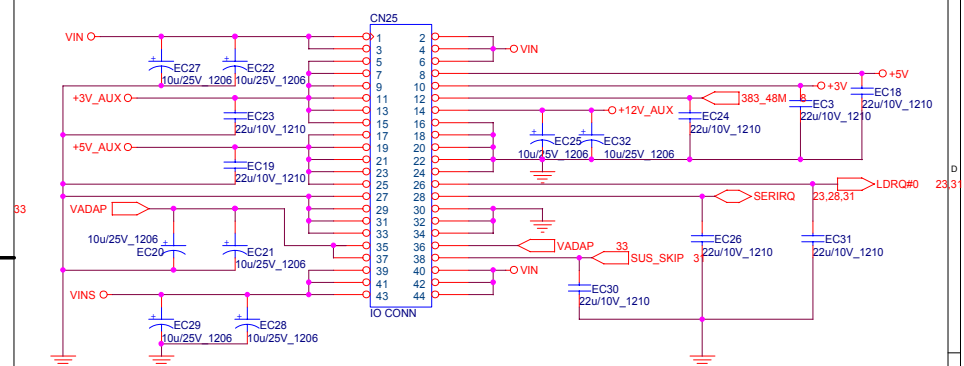
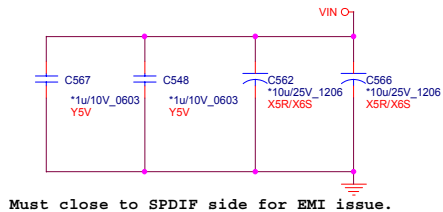
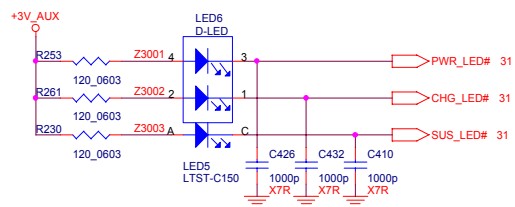
MIC



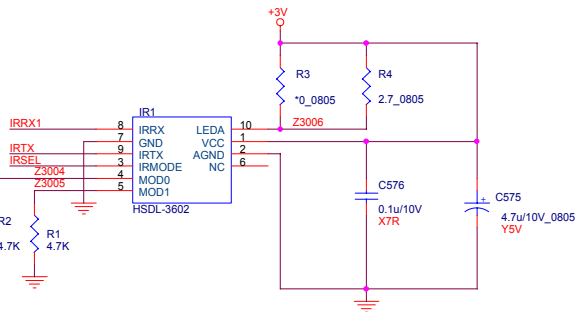
UNIWILL COMPUTER CORP.

Title	AUDIO CODEC & AMP & SPK & MIC & SPDIF		
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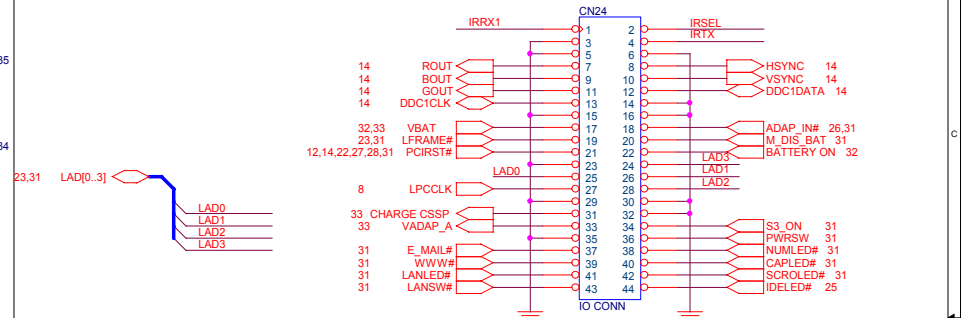
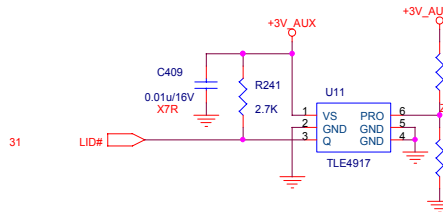
LED



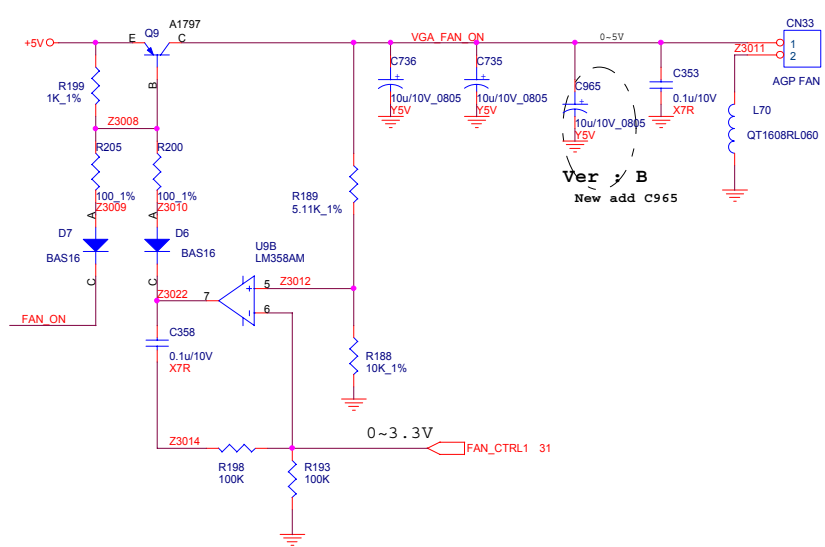
IrDA



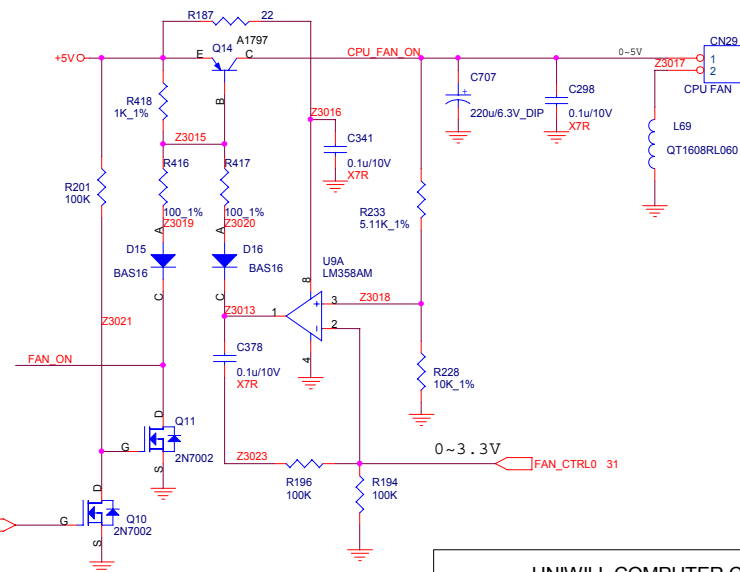
HALL SENSOR



VGA FAN

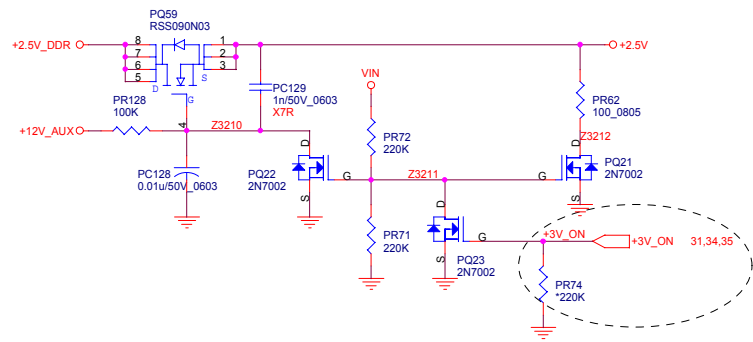
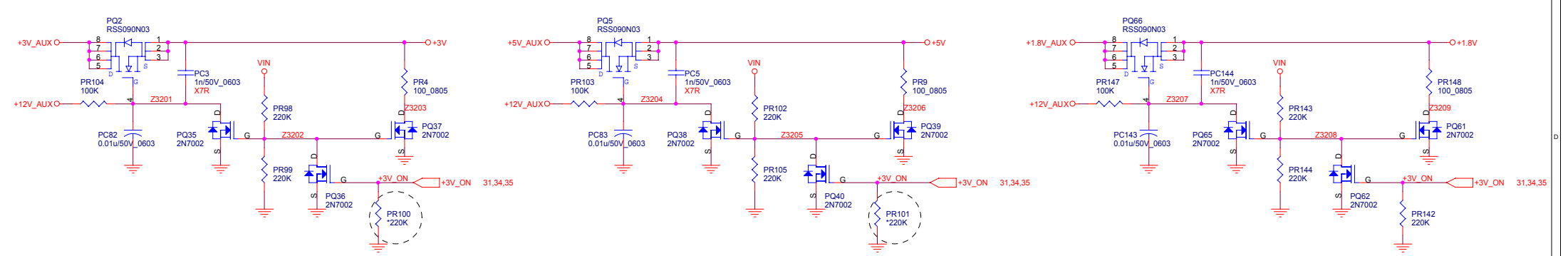


CPU FAN



UNIWill COMPUTER CORP.

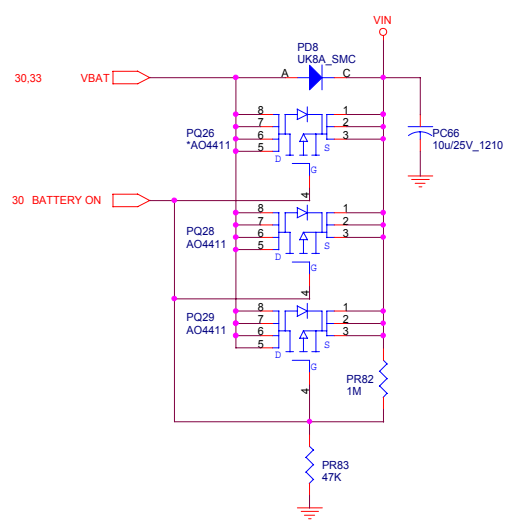
Title		
SW&LED&IR&FAN&I/O CONN		
Size	Document Number	Rev
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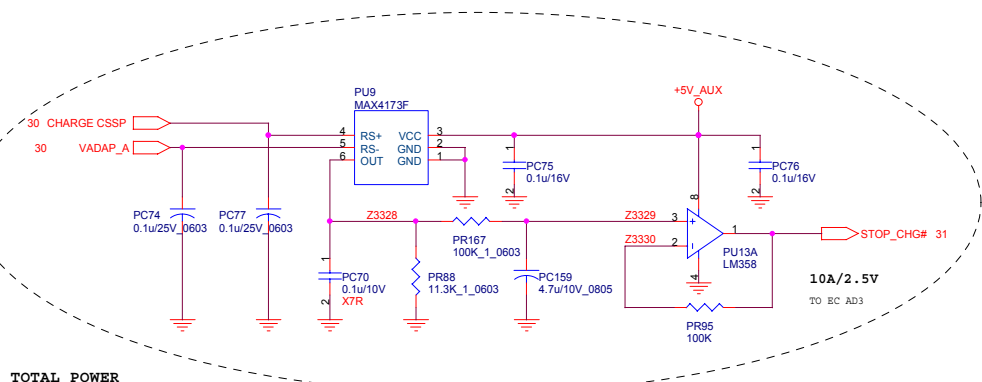
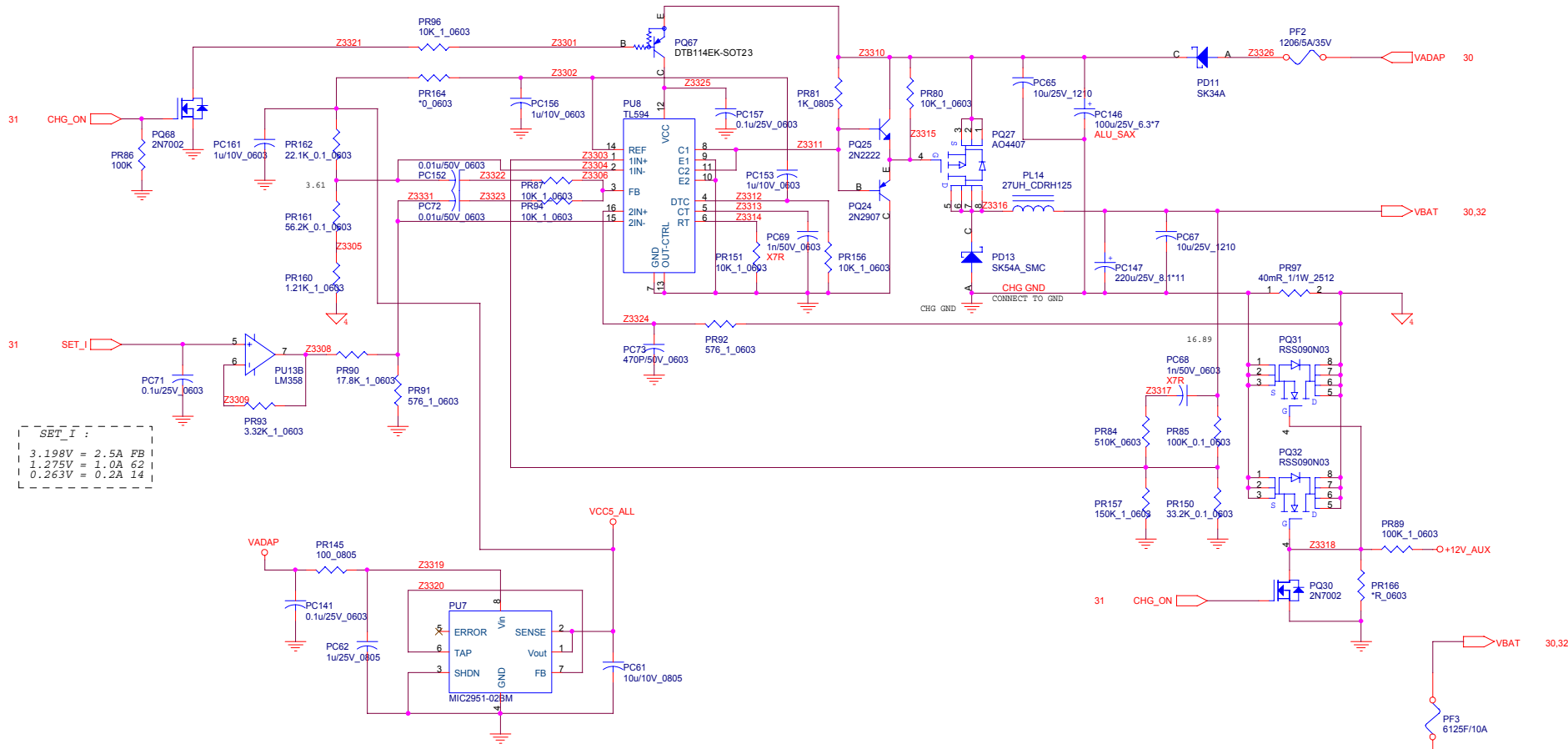


S3 +3V , +5V , +1.8V , +2.5V POWER STATE

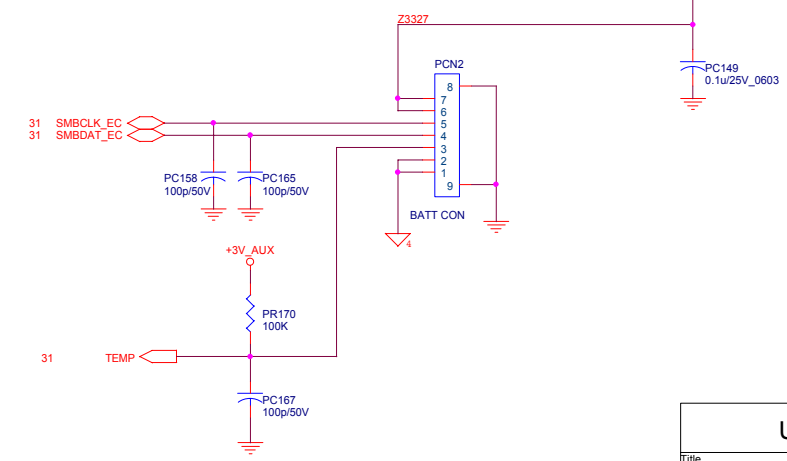
	+3V_ON	+1.8V	+2.5V	+3.3V	+5V
S0	HI	ON	ON	ON	ON
S3	LOW	OFF	OFF	OFF	OFF

+3V_ON Control from EC

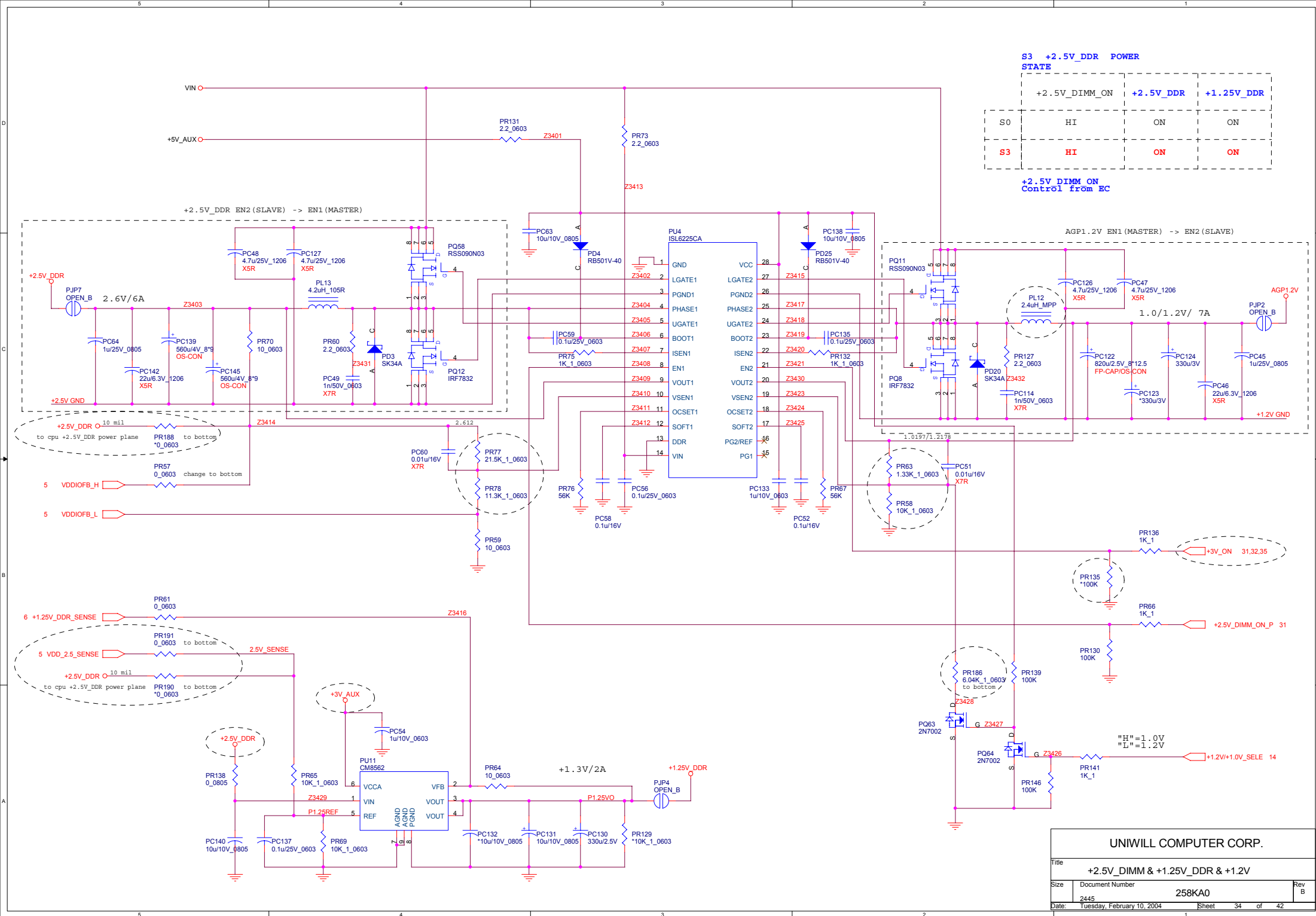


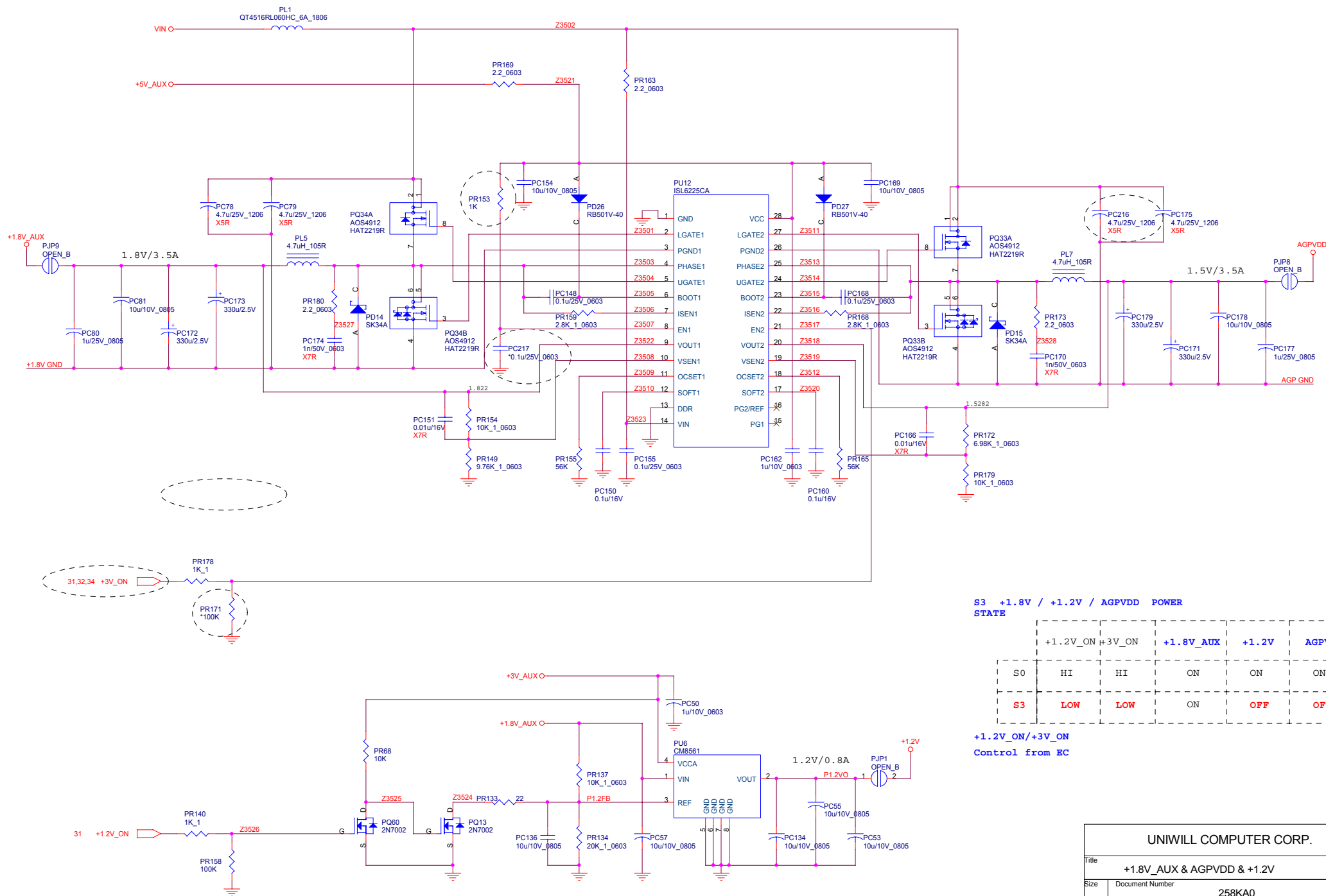


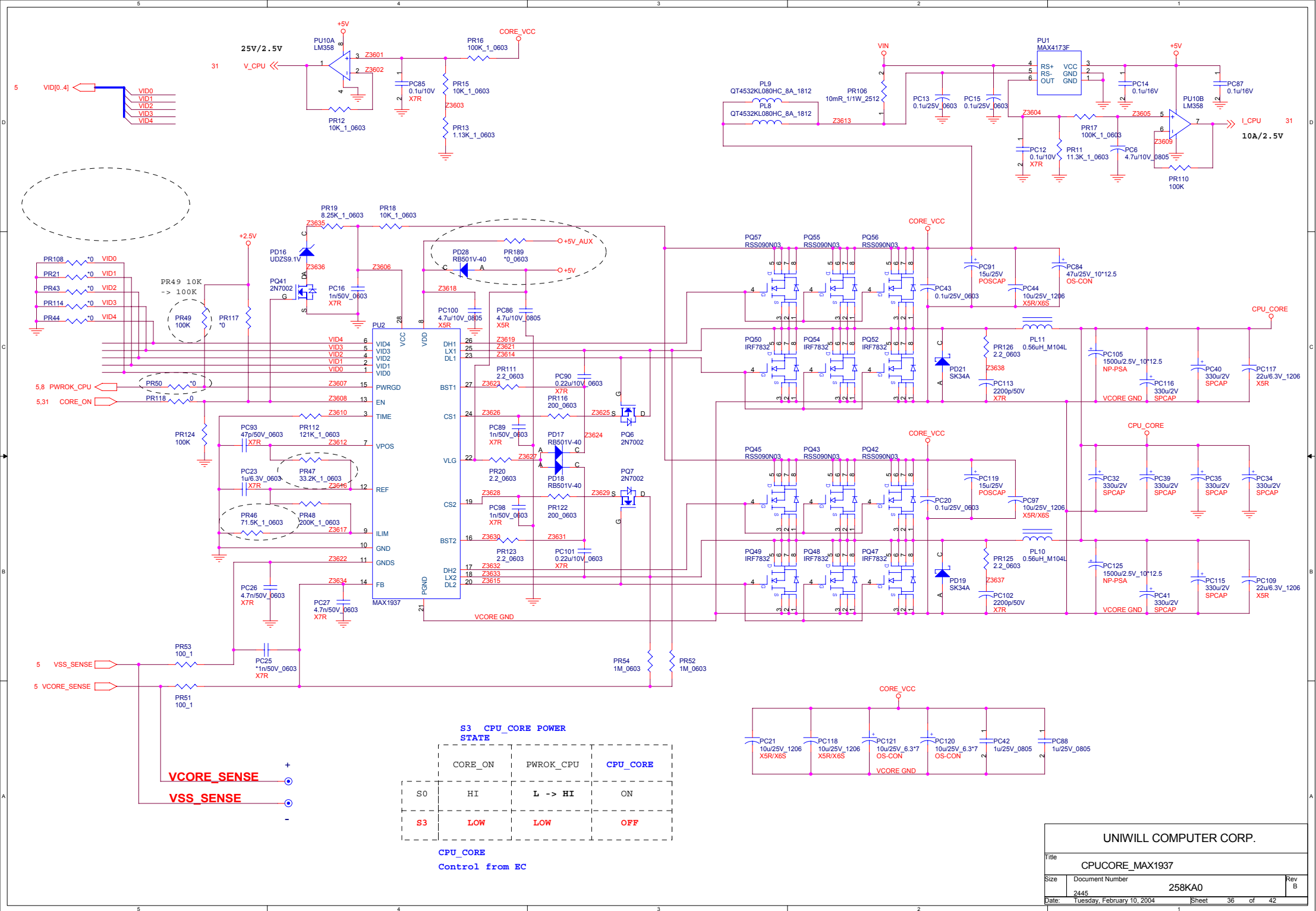
TOTAL POWER
 Rsense=10m Ohm
 Adapter = 160Watt/20V
 Stop-charger limitation = 7.06A



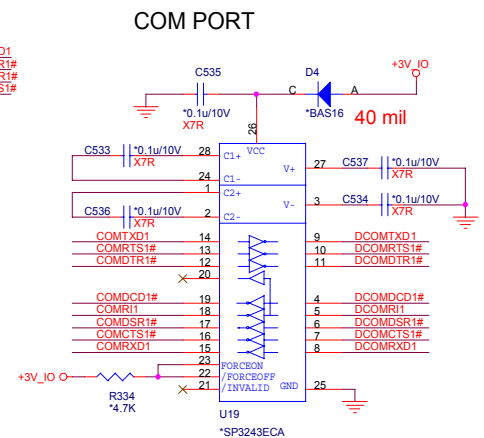
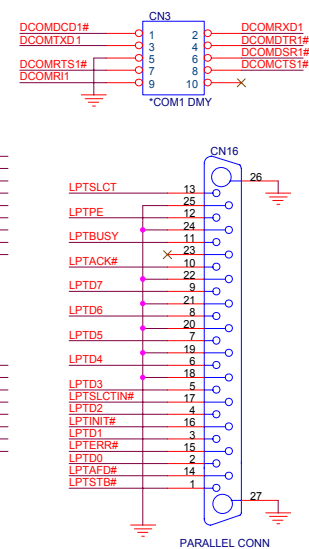
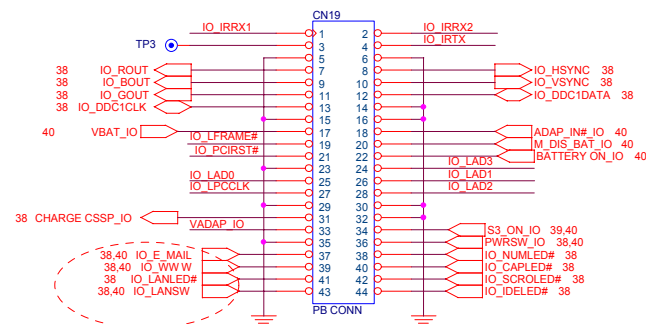
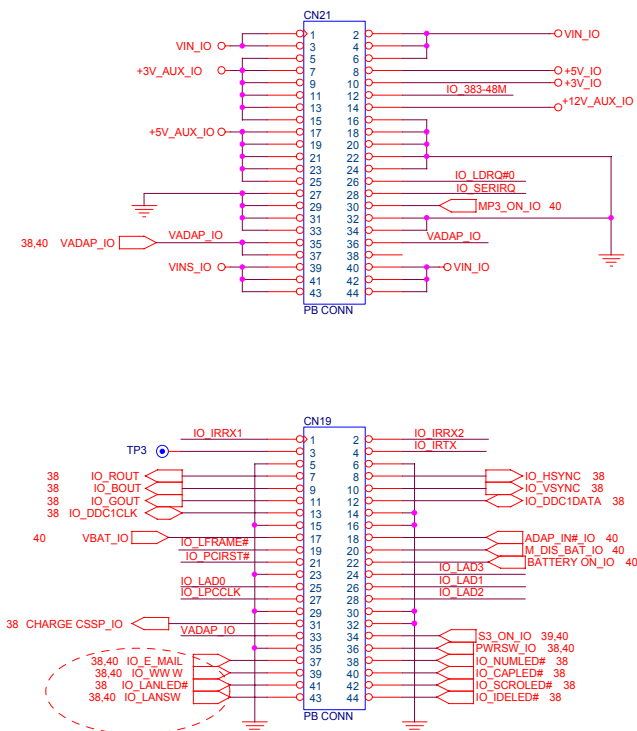
UNIWILL COMPUTER CORP.			
Title		Charger	
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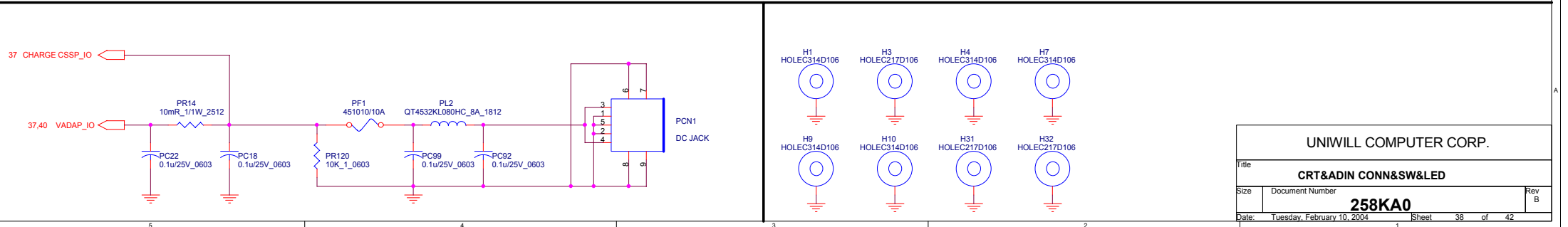
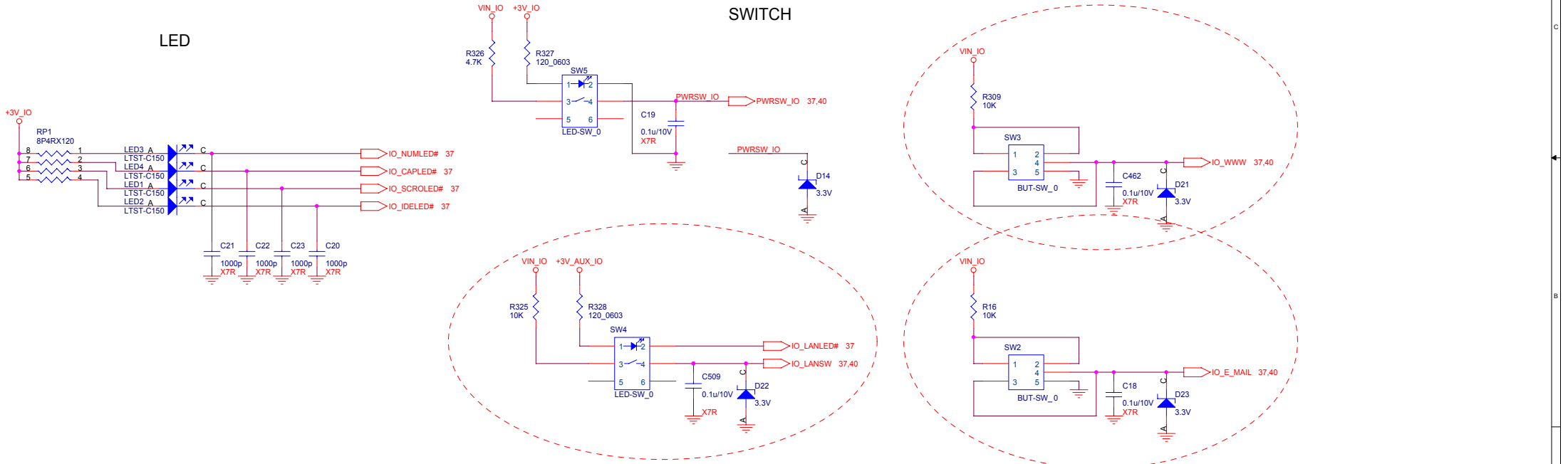
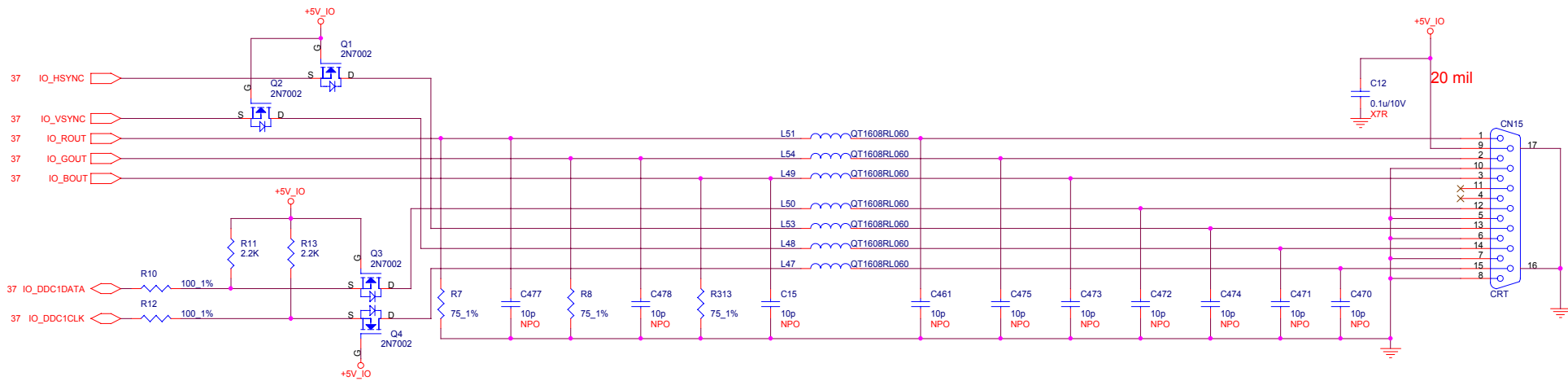


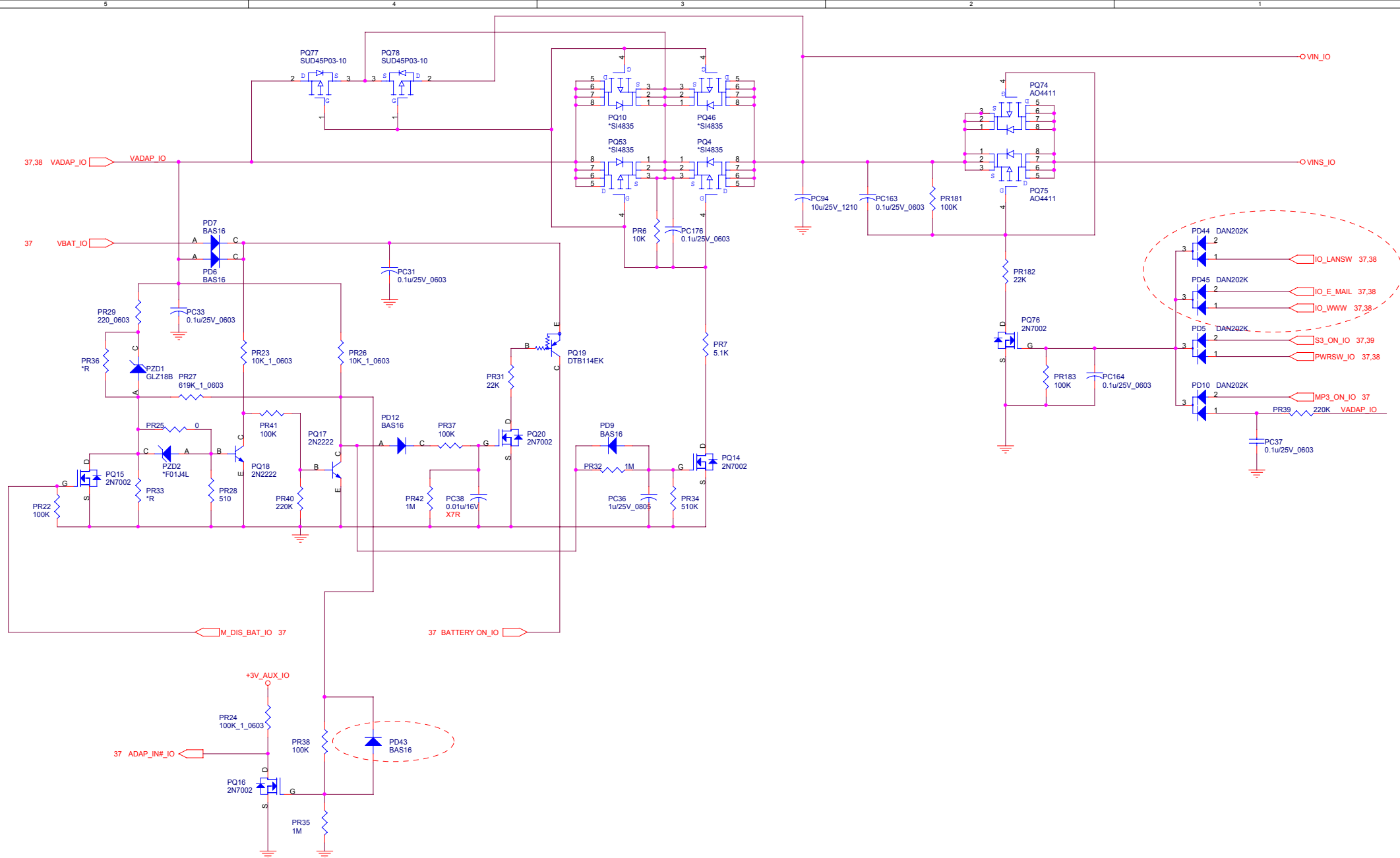


MADE IN TAIWAN



Title			
NS87383 & COM & LPT			
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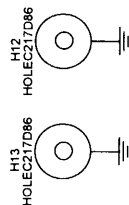
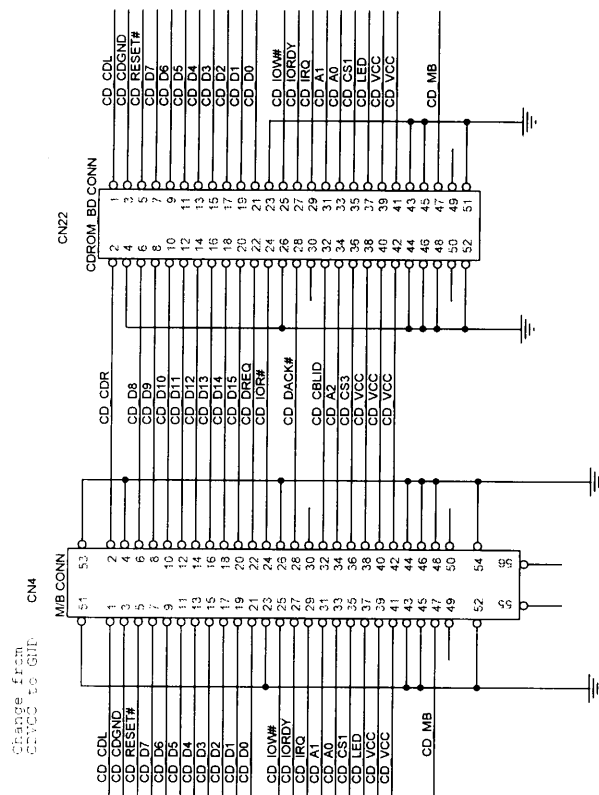




258SA0 CD-ROM TRANSFER BD REV: 01

P/N: 35-UD7020-01

MADE IN TAIWAN



UNIWILL COMPUTER CORP.

CDROM_TRANSFER_BD

Number

258KA0

February 10 2004

February 10, 2004

Sheet

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A0 to B0 M/B change lists

- 1.Simplify power control the signal
Page32: Change net +2.5V_ON to +3V_ON
Remove PR74,PR100,PR101
Page34: Change net +1.2V_ON to +3V_ON
Remove PR135
Page35: Del net +1.8V_ON, Change net AGP_ON to +3V_ON
Remove PR152,PR171
Add PR153
- 2.Add total power circuit
Page33: Add PC74,PC77 0.1u/25V_0603, PC159 4.7u/10V_0805
Add PR88 11.3K_1_0603, PR95 100K, PR167 100K_1_0603
Add PU9 MAX4173F, PC75,PC76 0.1u/16V
- 3.Change M/B with P/B component the repetition rename
Page35: Rename PR176 to PR216
- 4.Solve when S3 AGP1.2V Disable, +2.5V_DDR voltage descend 0.2V
Page34: Change PL12 1.8uH_MPP to 2.4uH_MPP
Change PR58 11.3K_1_0603 to 10K_1_0603
Change PR63 21.5K_1_0603 to 1.33K_1_0603
Change PR77 1.33K_1_0603 to 21.5K_1_0603
Change PR78 10K_1_0603 to 11.3K_1_0603
Change PU4 ISL6225CA EN1(master) to EN2 (slave)
Rename PR79 to PR186
- 5.Improving CM8562 load full condition, PULL IC surface temperature moment very heat
Page34: Add PR191 0_0603
Change PR138 net +3V_AUX to +2.5V_DDR
Change PULL pin6 VCCA net +5V_AUX to +3V_AUX
- 6.Solve net +5V volatge leakage 1.7v when S3
Page36: Add PD28 RB501V-40
Del PR119 0_0603
- 7.Modify cpu power ok by H/W control
Page36: Change PR49 10K to 100K
Remove PR50
- 8.Modify the amd suggests vcore circuit
Page36: Change PR46 68.1K_1_0603 to 71.5K_1_0603
Change PR47 51.1K_1_0603 to 33.2K_1_0603
Del PR30,PR45,PR107,PR109,PR113

A0 to B0 P/B change lists

- 258KA0 Rev.B0 power board is by 257SA0/SA1 Rev.B0 the modify
- 1.Change component footprint and net
Page39: Change PC2 10u/10V 1206 to 0805
Change PC103,PC106,PC107,PC111 4.7u/25V 1210 to 1206
Change PJP3,PJP5,PJP6 short jump to open jump
Change PR3 net VINS_IO to 1902+
- 2.Improving power loses and ripple noise
Page39: Add PC182 1u/25V_0805
Remove PR174,PR175,PR177
- 3.Improving fast plug in / pull out adapter no boot
Page39: Change PR2 5K_0603 to 4.7K_0603

9. Changed CPU of HDT Connector type
Page 05:Changed CN27 foot printer to CN26-S
add R428
- 10.Add new CLOCK circuit
Page 08: Add R719,R734
Add C966,C967 By EMI issue
Page 24:Add R713,R714
- 11.Add new PWROK & PWROK_CPU circuit
Page 08 : New Add R720 ,R721
Changed net. +2.5V to +3V
Add BOM R720,R721,R533,R529,R523,,R535,Q15,Q16
Remove BOM R528,R522,R534,Q17,Q18
12. Add new pull up circuit for SMBUS
to solved couldn't found the DDR memory of SPD information
when S3 resume and system restart
Page 09: Add R717,R718
13. Solve the DDR400 512MB *16 cell test fail
Page 10: Remove BOM R67,R68,R121,R125
14. New add AUXOK circuit to solve power on sequence too fast
Page 23. Add R715,R716,C963
15. Modify BOM
Page 23: Remove R299
Add R298
16. Solve the USB2.0 IF_LOGO fail
Page 24: Changed R295 of value to 357_1k
17. Reserved main power source +5V_AUX for USB Connect
Page 25: New add power net. +5V_AUX for USB connector
to R729,R731,R733
Add BOM R728,R730,R732
18. Solve the RTL8201CL LAN connection fail
Page 26: Change R209 from 5.6K 1% to 2K 1%
Add R239
Add C303,C318
New connect PT1 pin 10, 15 to net. PWROUT
19. Solve can't boot from battery only and restart unsatble
Page 26: Remove R538,R545,R546,R547,Q19,Q20
20. Add for Card BUS MSpro memory type of circuit
Page 28: CN27 Pin 14 connect to Net. MC1D1
CN27 Pin 16 connect to Net. MC1D2

CN27 Pin 18 connect to Net. MC1D3
21. Solve the AUDIO broken Voice when start windowsXP
or exit windows
Page 29: changed R600 to 9.01K 1%
22. Reserved ground plane circuit for EMI debug issue
Page 29: Add R722,R723,R724,R725,R726,R727
23. Solve the AGP Fan runing unstable
Page 30. New add C965
Move C353 close to CN33 (AGP Fan connector)
24. Reserved for EC controller of GPI/O pin when that pin are necessary
Page 31: Add RP87 ,R711, R712

25. Provide +2.5V_DIMM_ON have active stable circuit
Page 31: Add U34,U35,R735
26. Change power source for Net. S3AUXSW#
Page 31 : Changed R627 power source from +3V to +3V_AUX

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