

255 / 259KIX

01	COVER PAGE
02	GPIO DEFINITION & POWER CONSUMPTION
03	BLOCK DIAGRAM
04	CPU-ATHLON64-HT
05	CPU-ATHLON64-DDR
06	CPU-ATHLON64-PWR & GND
07	MAIN CLOCK & PCB HOLE
08	DDR CONN
09	DDR PULL UP TERMINATION
10	SIS760 HOST& AGP BUS
11	SIS760 MUTIOL&HW TRAP
12	SIS755 POWER & GND
13	SIS302LV
14	SIS963L (HYPERZIP & PCI & IDE)
15	SIS963L(HOST,AC97,MII,GPIO)
16	SIS963L(POWER &USB & 1394)
17	HDD & CD-ROM & USB CONN
18	LAN(PHY) & MDC CONN & S/P
19	1394 Controler & MINI_PCI
20	CARDBUS OZ711MC1 & MMC
21	AUDIO & AMP & Boonmer
22	IT8510E & BIOS & T/P & SW
23	LVDS & INVERTER & CRT
24	FAN & TV & 2nd AUDIO &HALL
25	VCC SWITCH&BATT CONTROL
26	CPUCORE_MAX1937
27	+1.2V & VCORE STOP-DOWN
28	+1.25V & +1.8V & +2.5V
29	DC-DC 5V/3.3V
30	Charger & Total Power
31	TP BOARD
32	LAN BOARD
33	USB BOARD
34	Change Notes B to 01

255KIX REV:01

	PCB P/N	ASSY P/N
MB ID1	37-UH0000-01	82-UH0000-01
MB ID3	37-UH0003-01	82-UH0003-01
USB	35-UG5020-00A	80-UG5020-00A
HDD	35-UG5070-00A	80-UG5070-00A
LAN	35-UG5030-00C	80-UG5030-00C
T/P	35-UG5010-00B	80-UG5010-00B
LED ID1	35-UG5040-01	80-UG5040-01
SW ID1	35-UG5000-00B	80-UG5000-00B
LED ID3	35-UG5040-01	80-UG5041-01
SW ID3	35-UG5000-00C	80-UG5001-00C

MADE IN TAIWAN / RD1-HW3

UNIWILL COMPUTER CORP.

Title			COVER PAGE		
Size	Document Number				Rev
	2756				01
Date:		Tuesday, September 07, 2004		Sheet	1 of 34

SIS963L GPIO	
GPIO0	NC
GPIO1	NC
GPIO2	SB_THROTTLING#
GPIO3	EXTSMI#
GPIO4	CLKRUN#
GPIO5	HDDCDROM_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	NC
GPIO19	SMBCLK
GPIO20	SMBDAT

IT80510E GPIO	
GPA0	BTL_BEEP
GPA1	NC
GPA2	NC
GPA3	NC
GPA4	NC
GPA5	NC
GPA6	SMP1_EN#
GPA7	PWRBTN#
GPB0	SUS_SKIP
GPB1	IDE_LED#
GPB2	NC
GPB3	BAT_SMBCLK
GPB4	BAT_SMBDATA
GPB5	NC
GPB6	NC
GPB7	RF_LED#
GPC0	PWROK1
GPC1	SMBCLK1
GPC2	SMBDAT1
GPC3	NC
GPC4	NC
GPC5	NC
GPC6	CHG_ON
GPC7	NC
GPD0	AC_IN
GPD1	USERSW
GPD2	PCIRST#
GPD3	EXTSMI#
IOPD4	PSON#
IOPD5	THROTTLING#
GPD6	NC
GPD7	FAN_SPEED#
GPE0	NC
GPE1	NC
GPE2	NC
GPE3	NC
GPE4	PWRSW
GPE5	LID#
GPE6	RF_OFF#
GPE7	S3AUXSW#
GPCF0	CS
GPCF1	WR
GPCF2	DA
GPCF3	LCM_BKL
GPCF4	TP_CLK
GPCF5	TP_DATA
GPCF6	E_MAIL#
GPCF7	WWW#
GPH0	+2.5VS_ON
GPH1	+2.5V_ON
GPH2	+1.8V_ON
GPH3	+1.8VS_ON
GPH4	+5V_ON
GPH5	+3VS_ON
GPH6	+1.2V_ON
GPH7	CORE_ON

IT80510E GPIO	
GPIO0	SCROLED#
GPI1	CAPLED#
GPI2	NUMLED#
GPI3	CHG_LED#
GPI4	NC
GPI5	SUS_LED#
GPI6	PWR_LED#
ADC0	BATT_IN
ADC1	ADAPTOR_I
ADC2	I_CPU
ADC3	V_CPU
ADC4	NC
ADC5	NC
ADC6	NC
ADC7	NC
ADC8	NC
ADC9	NC
DA0	BRIGHTADJ
DA1	CHG_I
DA2	FAN_CTRL0
DA3	NC

CPU				
	CPU CORE (V)	ICC (mA)	W	TEMP ()
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			

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

VT1612A			
VCC	ICC (mA)	W	TEMP ()
+3V (DVDD)	71	0.234	70
+3V (AMPVDD)	36	0.118	

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

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

SIS760			
VCC	ICC (mA)	W	TEMP ()
+3V	100.2	0.4575	70
+1.2V	88	0.1056	
+1.8V	2208.2	2.1261	
AGPVDD	401.7	0.5107	
+1.5V			

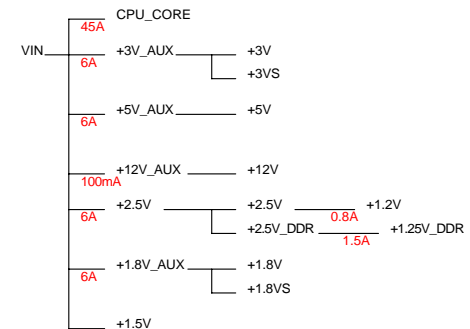
SIS963L			
VCC	ICC (mA)	W	TEMP ()
+3V	96	0.315	70
+1.8V	487	0.876	
+1.8V_AUX	27	0.049	
+3V_AUX	275	0.909	
RTCVDD	0.003	0.00001	
VTT(+1.8V)	15	0.027	

IT8510E			
VCC	ICC (mA)	W	TEMP ()
+3V	300	1	70

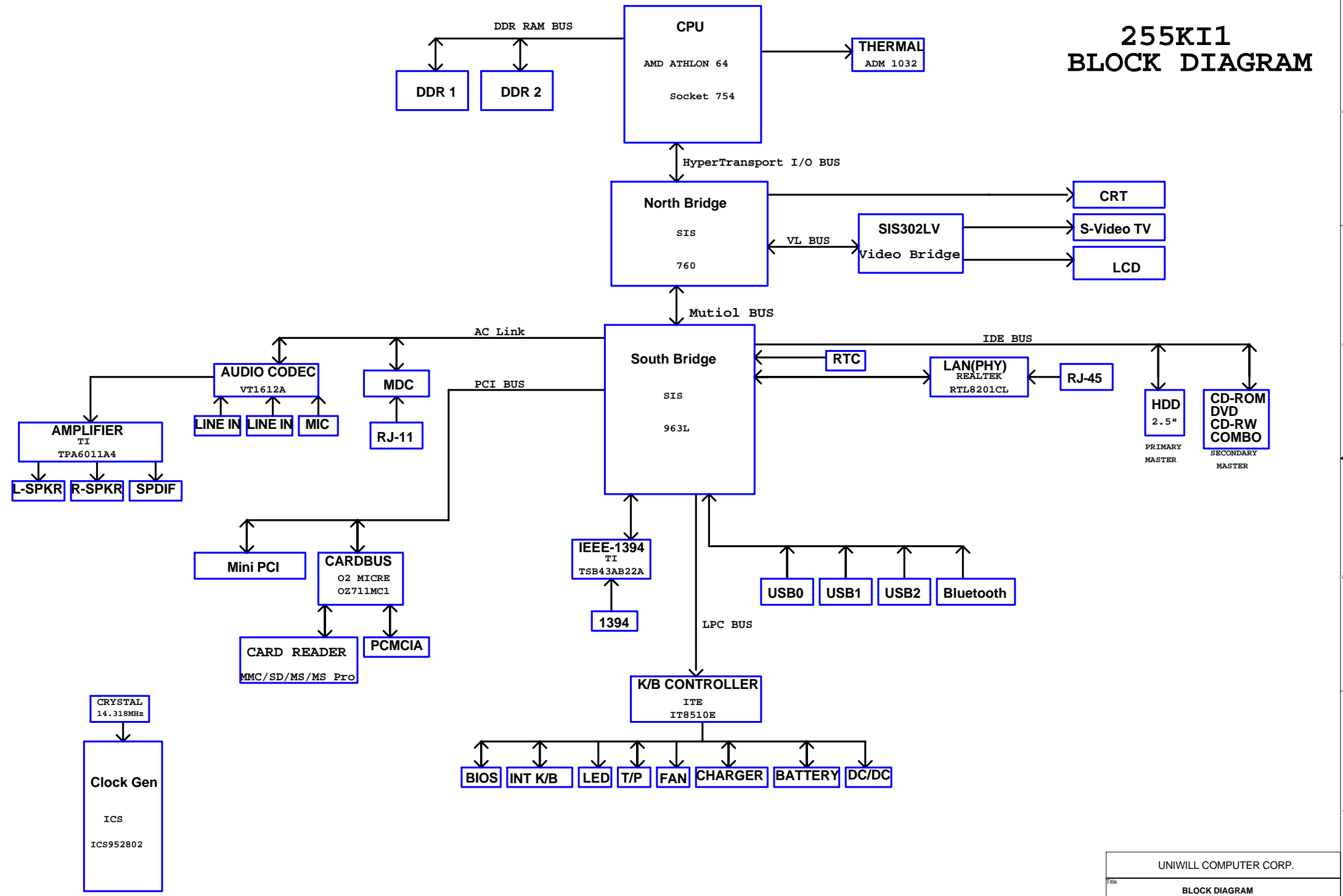
CLOCK GENERATOR			
VCC	ICC (mA)	W	TEMP ()
+3V	180	0.594	70

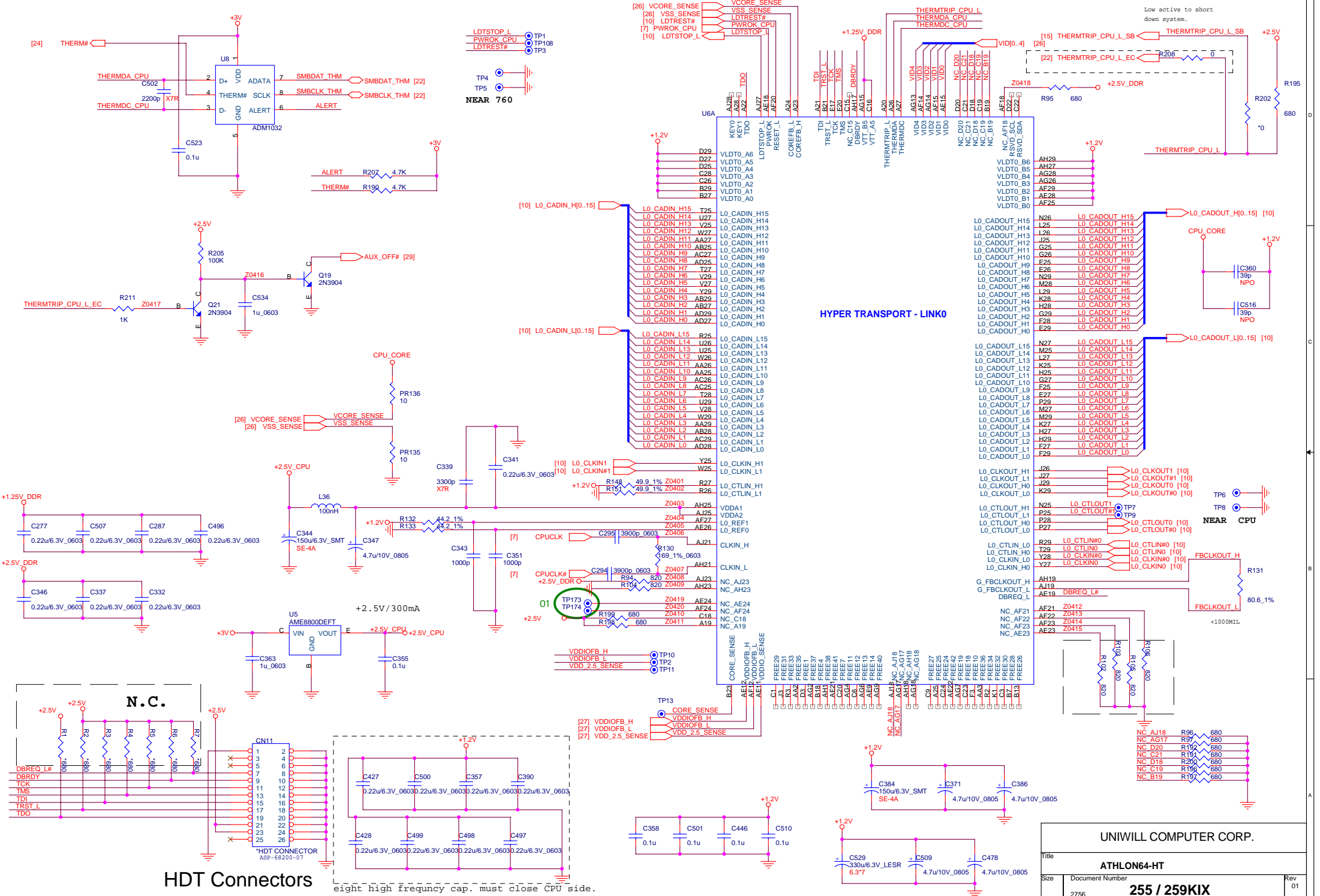
DEVICE ID				
DEVICE	IDSEL	REQ	GNT#	INT
1394	AD17	PREQ#2	PGNT#2	INT#D
MINI PCI	AD22	PREQ#1	PGNT#1	INT#B INT#D
PCMCIA	AD20	PREQ#0	PGNT#0	INT#B

	S3	S5
+3VS +5VS +1.8VS +1.25_DDR +2.5V_DDR	ON	OFF
+3V +5V +2.5V +12V +1.8V +1.2V +1.5V	OFF	OFF
+3V_AUX +5V_AUX +12V_AUX +1.8V_AUX	ON	ON

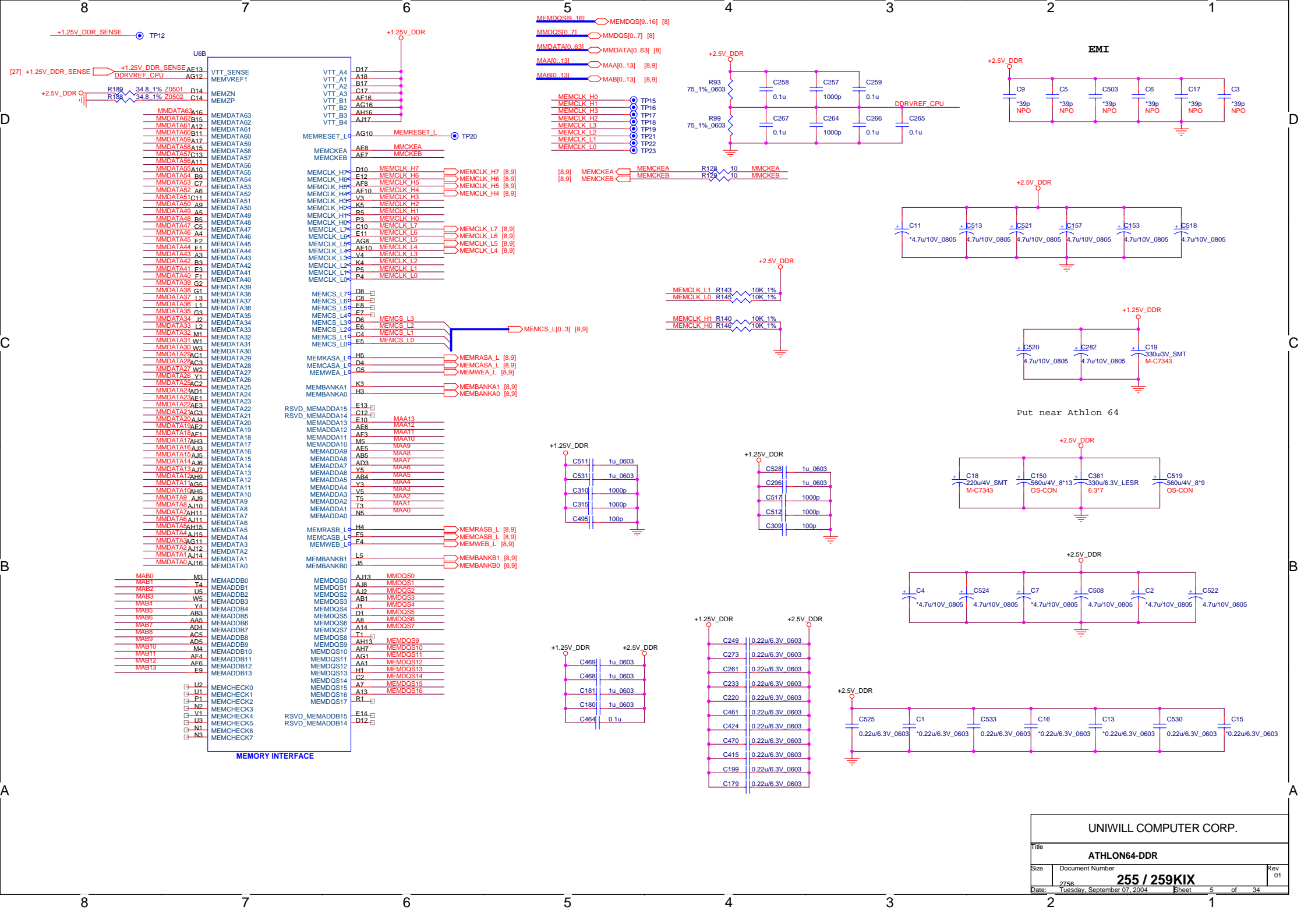


255KI1 BLOCK DIAGRAM



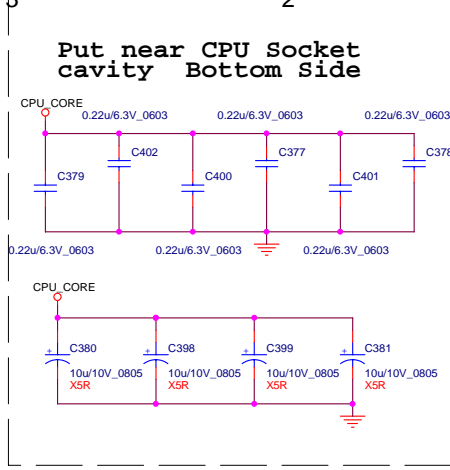
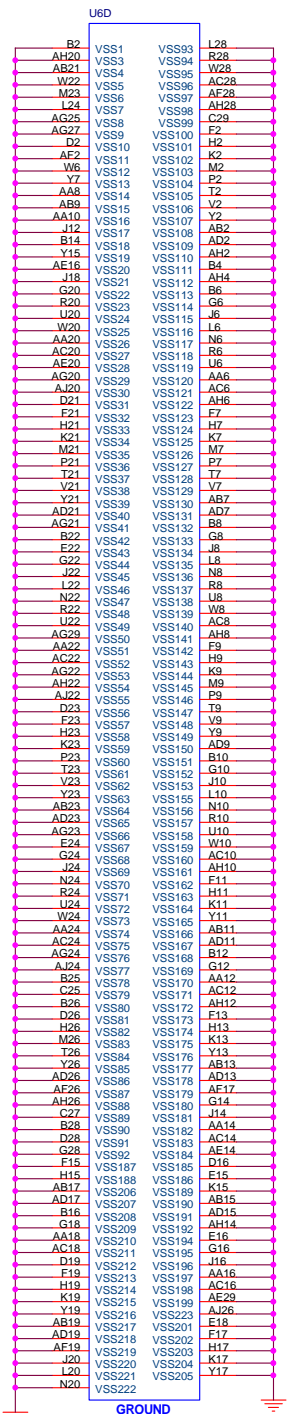
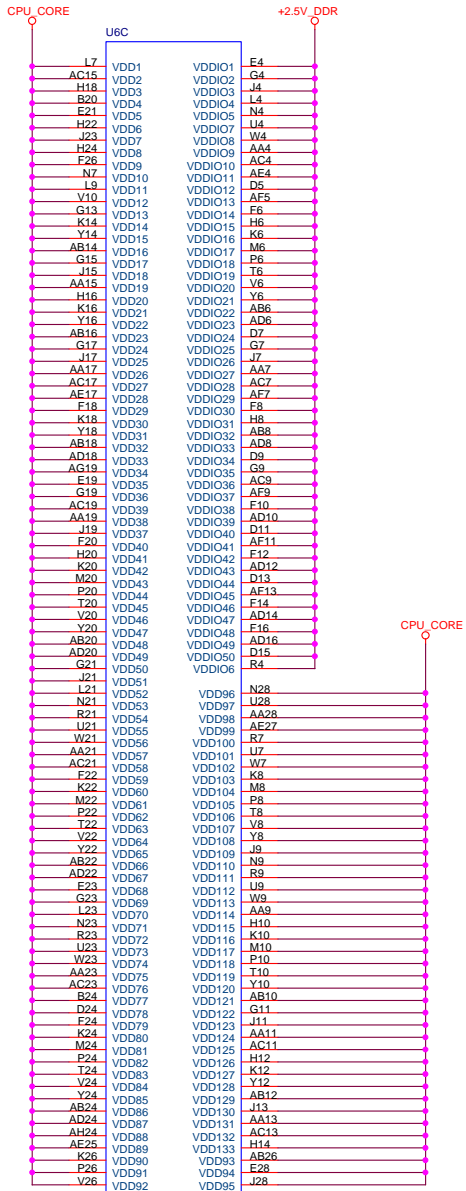


UNIWILL COMPUTER CORP.			
Title	ATHLON64-HT		
Size	Document Number	255 / 259KIX	
Date:	Tuesday, September 07, 2004	Sheet	4 of 34

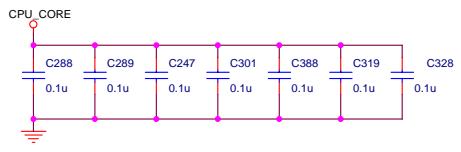
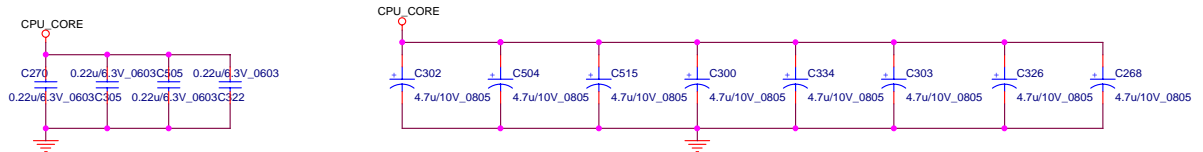


UNIWILL COMPUTER CORP.

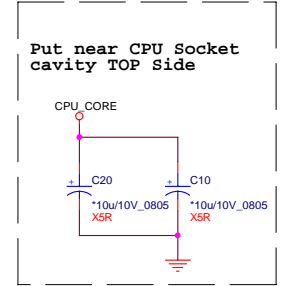
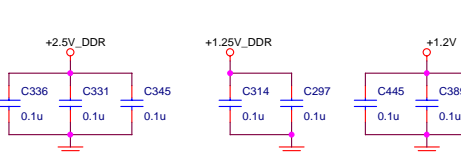
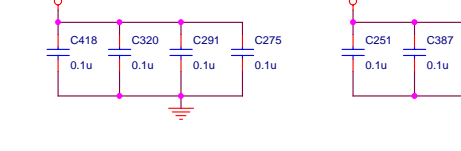
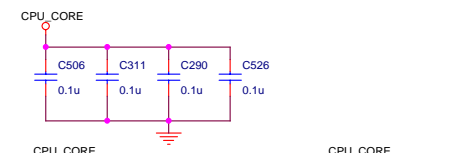
ATHLON64-DDR			
Size	Document Number	Rev 01	
2756		255 / 259KIX	
Date:	Tuesday, September 07, 2004	Sheet	5 of 34



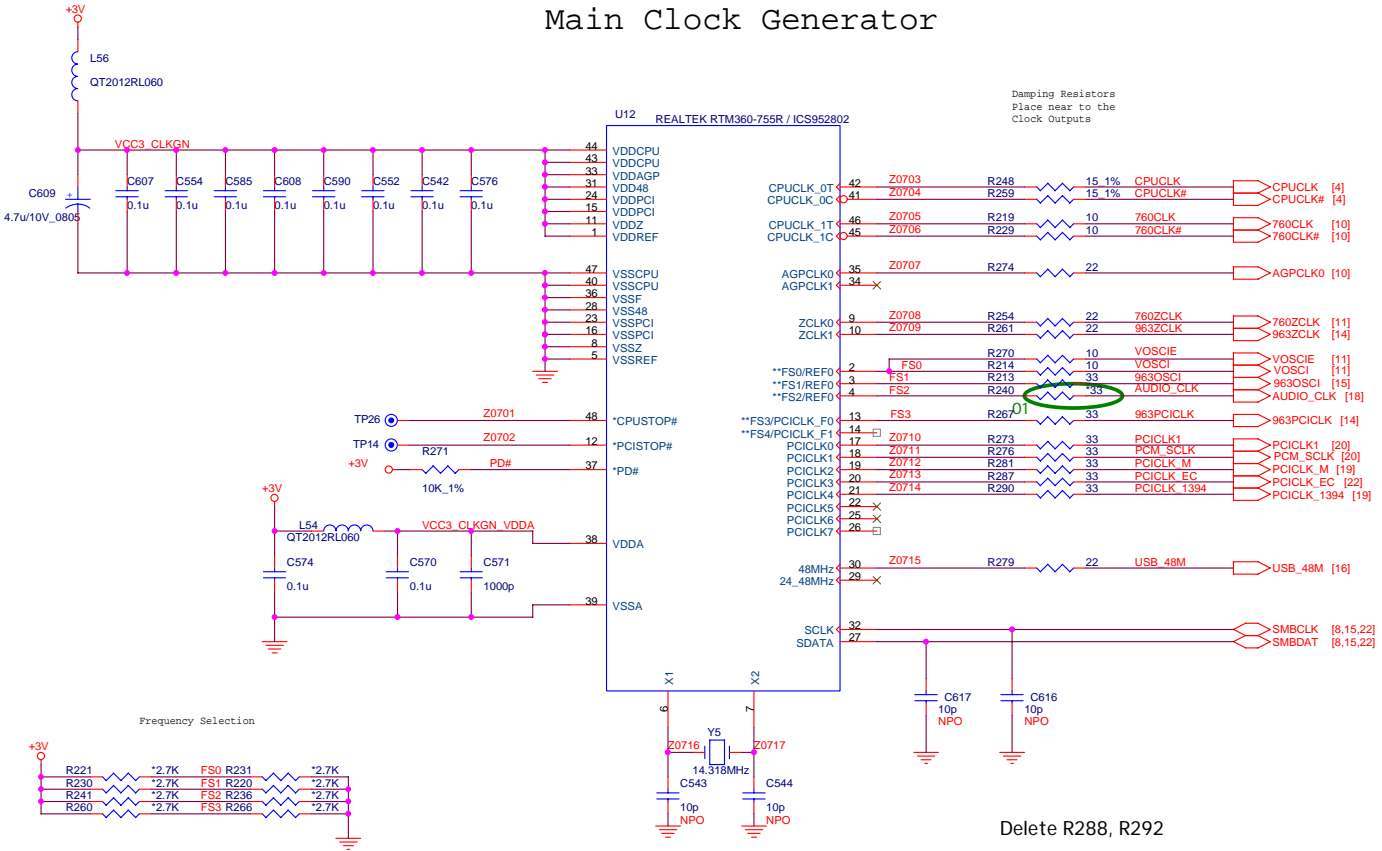
Put near Socket



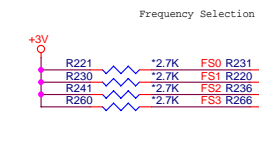
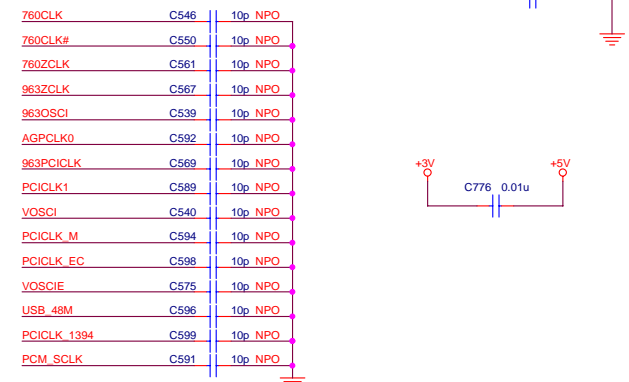
Put on the Backside of the Processor



Main Clock Generator



By-Pass Capacitors
Place near to the Clock Outputs



Delete R288, R292

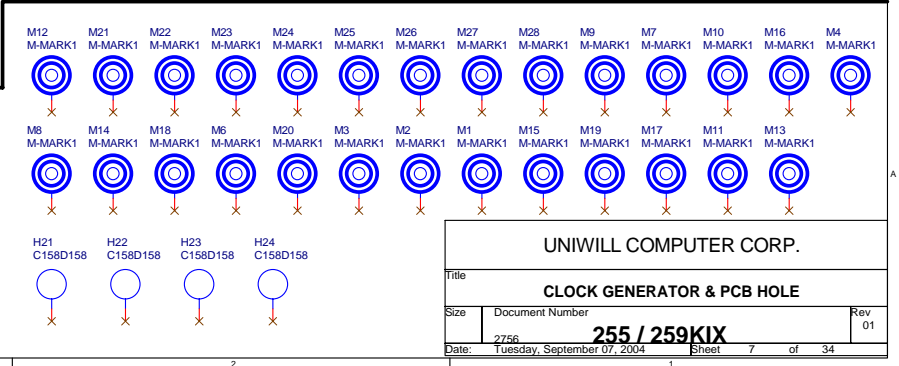
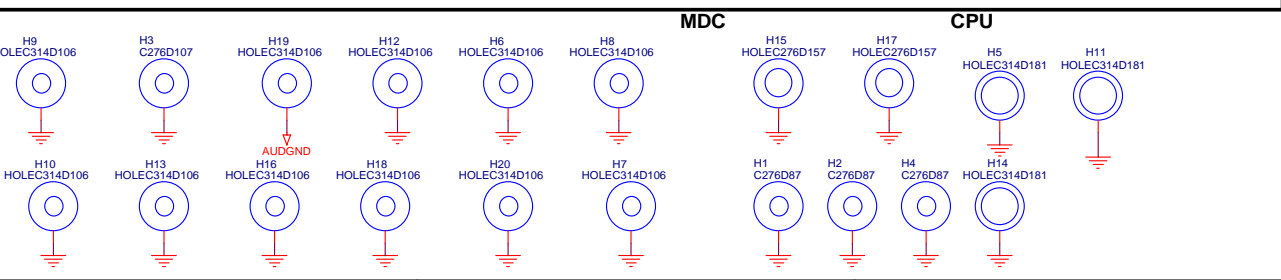
CLK Table for SiS755/760 (For ICS-952802)

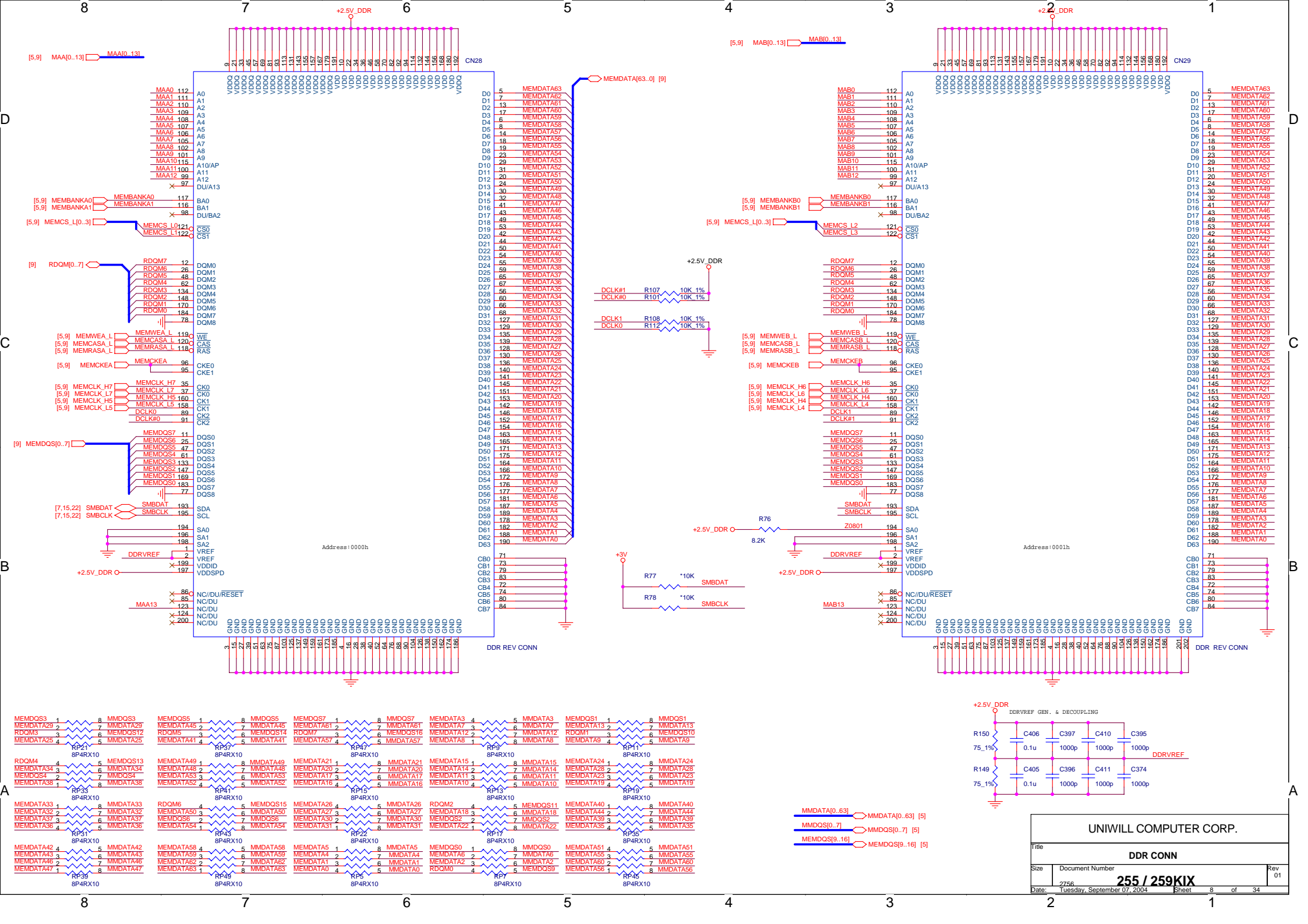
SiS 755/760 CLOCK								SiS 755/760 CLOCK									
(FS4)	(FS3)	(FS2)	(FS1)	(FS0)	CPU (MHz)	ZCLK (MHz)	AGPCLK (MHz)	PCI (MHz)	(FS4)	(FS3)	(FS2)	(FS1)	(FS0)	CPU (MHz)	ZCLK (MHz)	AGPCLK (MHz)	PCI (MHz)
0	0	0	0	0	160.00	106.66	53.33	26.66	1	0	0	0	0	206.00	137.33	68.67	34.33
0	0	0	0	1	200	133.33	66.67	33.33	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	1	1	200	160.00	66.67	33.33	1	0	0	1	1	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	1	0	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	168.33	67.33	33.66

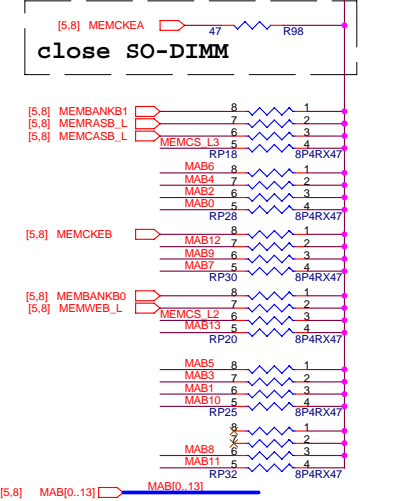
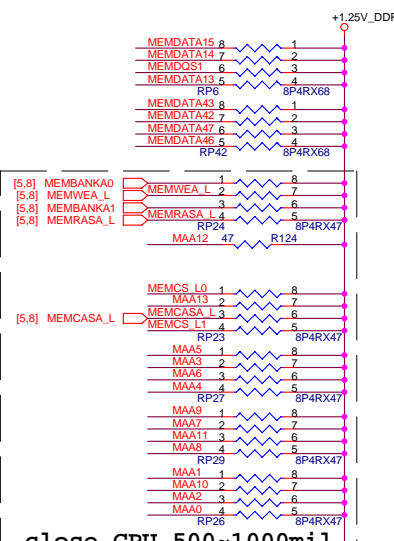
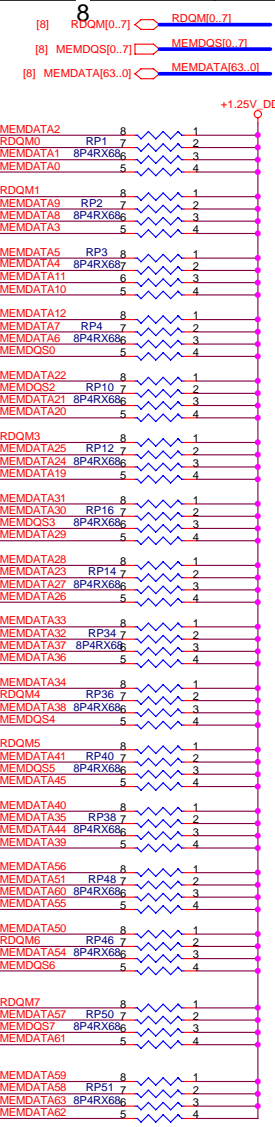
ICS 952802 Pin2 (*FS0) is internal pull up

* internal pull up
** internal pull down

Delete R336, C630, R302, Q31, R307, Q30, R322, C622, R309, Q29, C615.



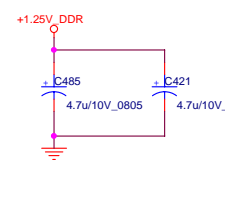
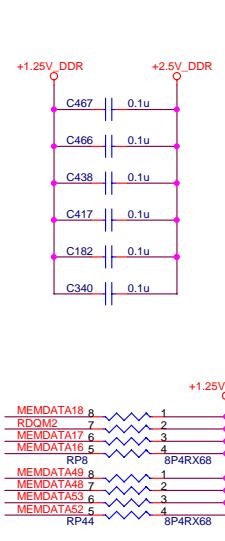




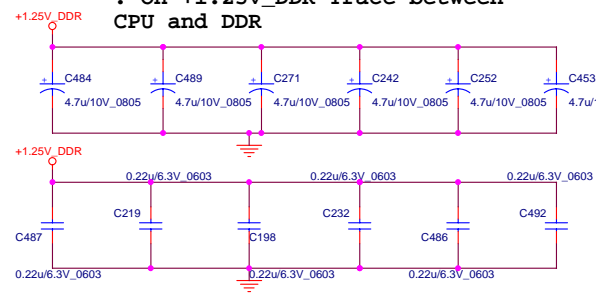
close CPU, 500~1000mil

close SO-DIMM

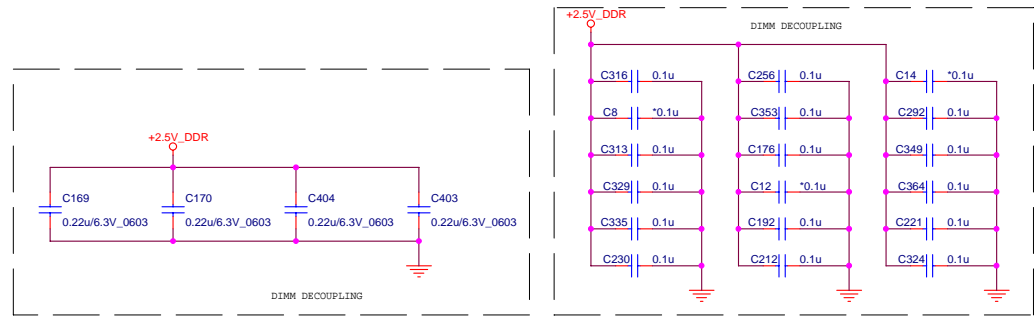
close CPU, 500~1000mil



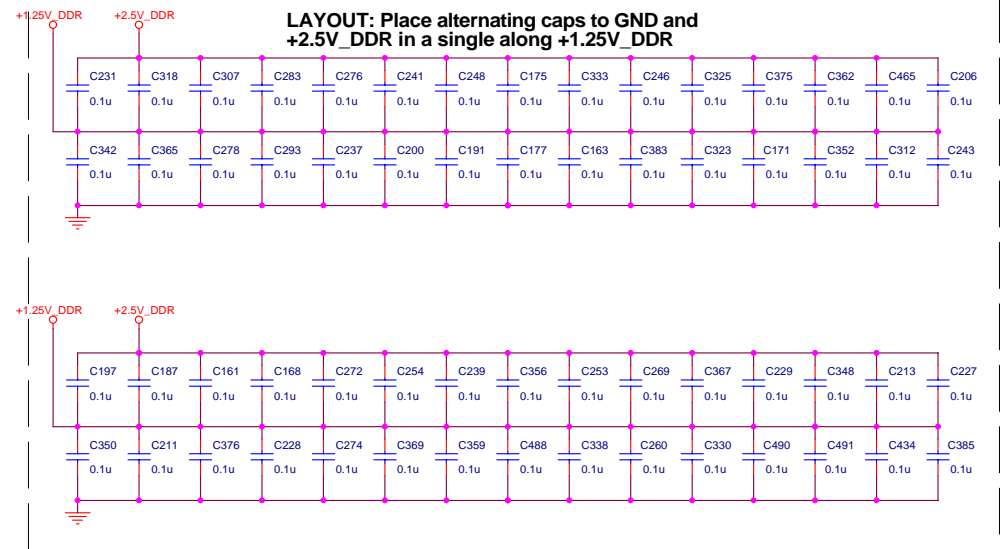
Layout: Place a Cap every 1 IN . On +1.25V_DDR Trace between CPU and DDR

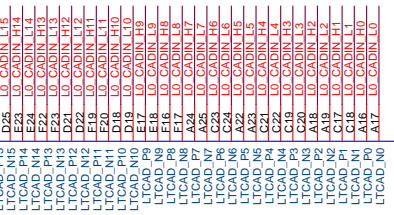
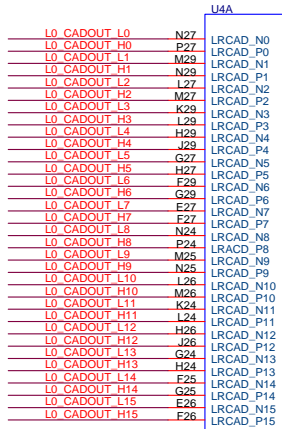
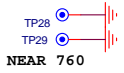
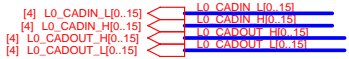


PUT near CPU (<500 MIL)



LAYOUT: Place alternating caps to GND and +2.5V_DDR in a single along +1.25V_DDR

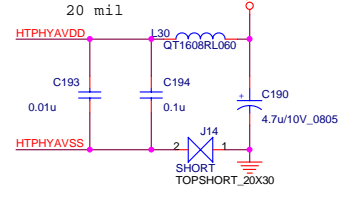
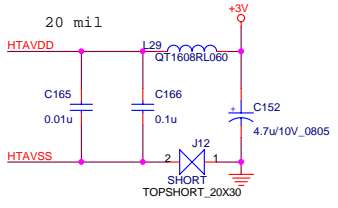
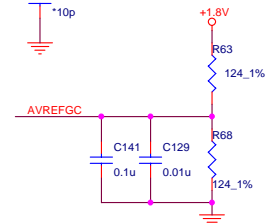
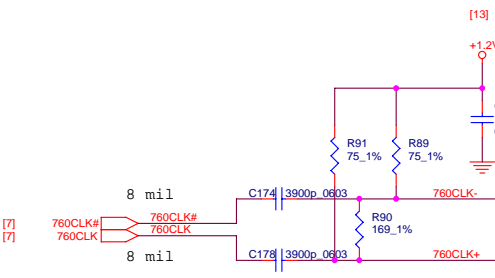
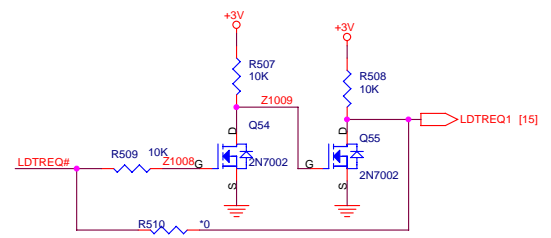
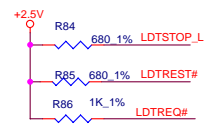
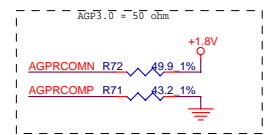
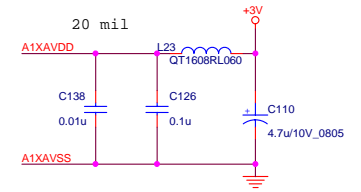
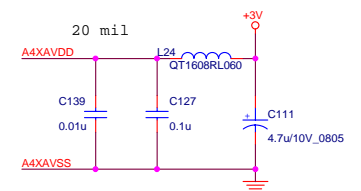
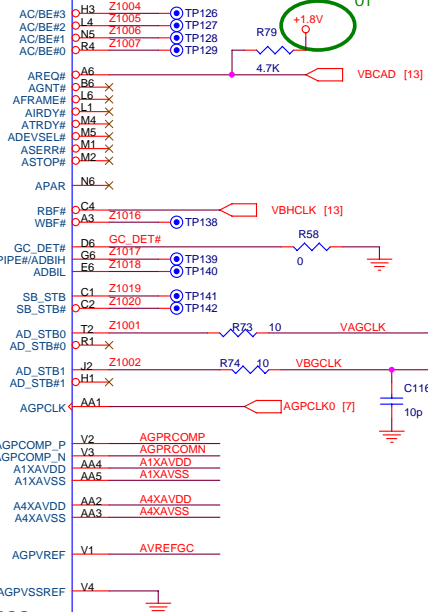
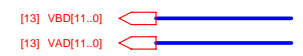
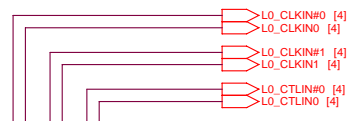
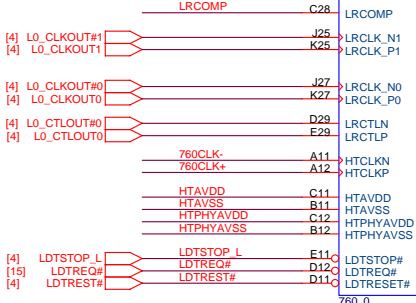




HOST_TX Hyper-Transport 760-1

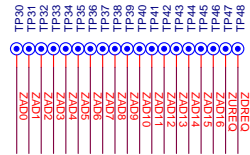
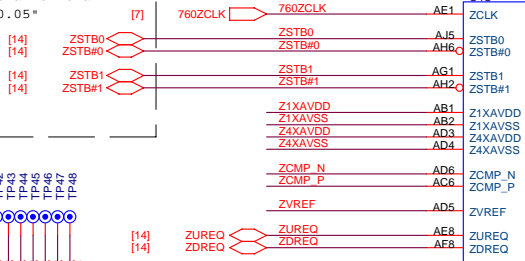
HOST_RX

AGP

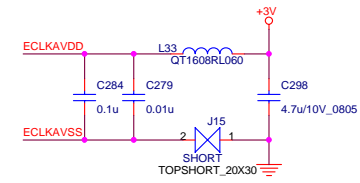
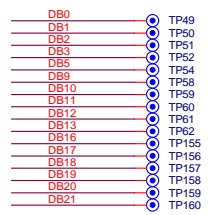
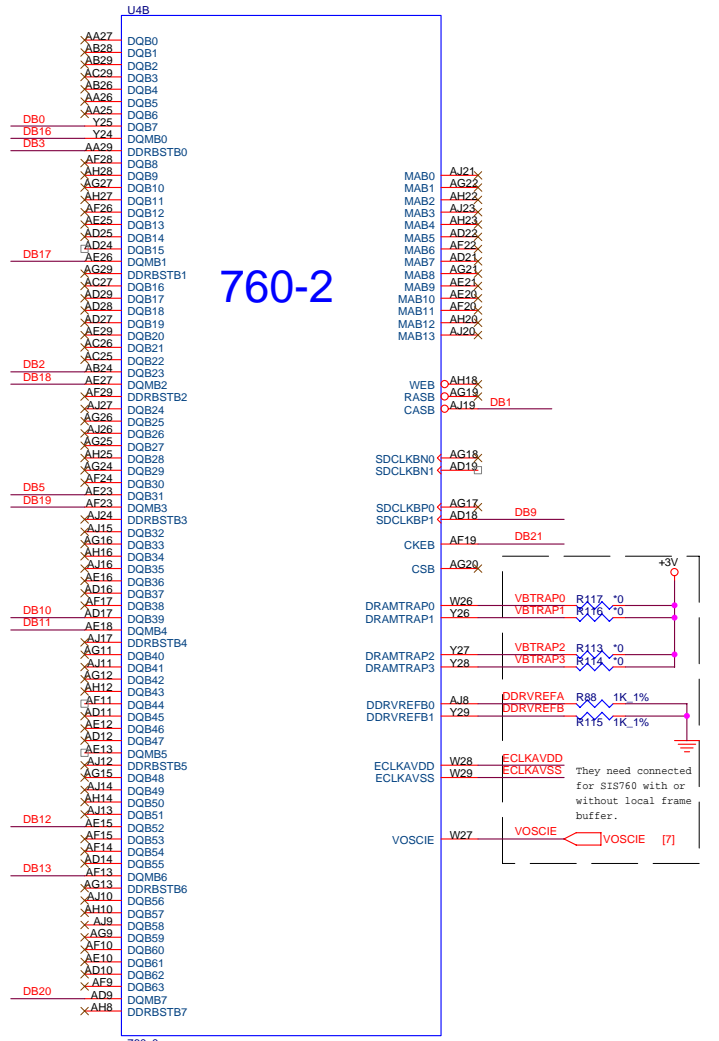
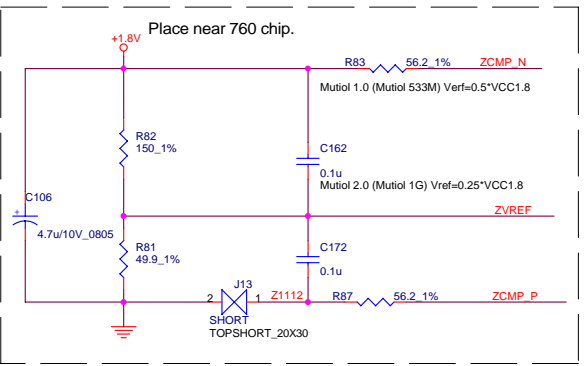
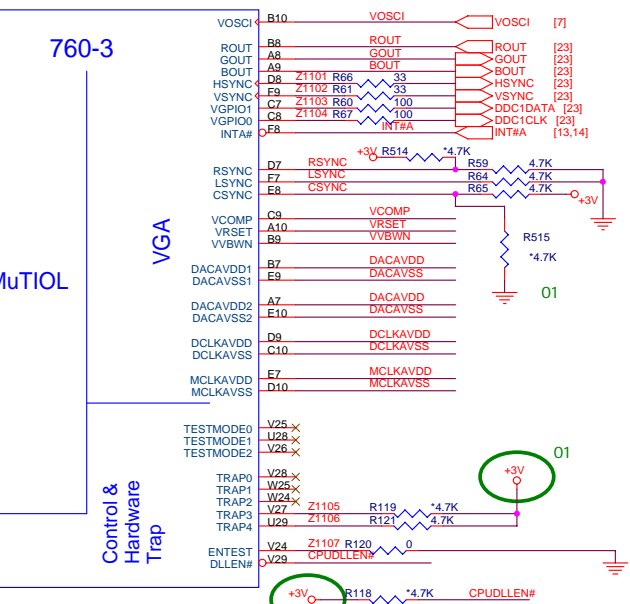
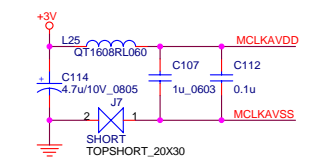
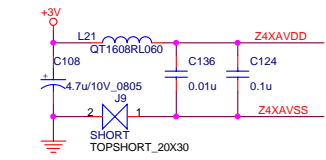
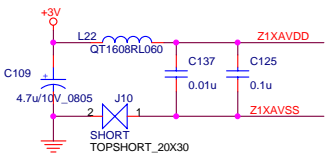
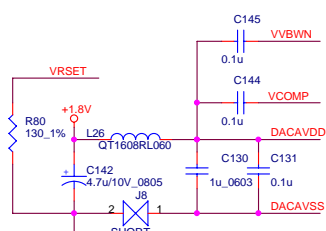
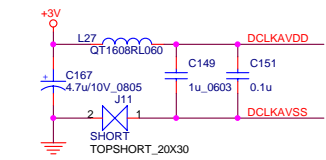
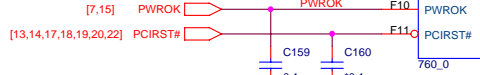
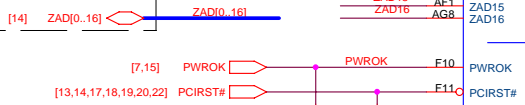


UNIWILL COMPUTER CORP.		
Title SIS760 HOST & AGP BUS		
Size 2756	Document Number 255 / 259K1X	Rev 01
Date: Tuesday, September 07, 2004	Sheet 10	of 34

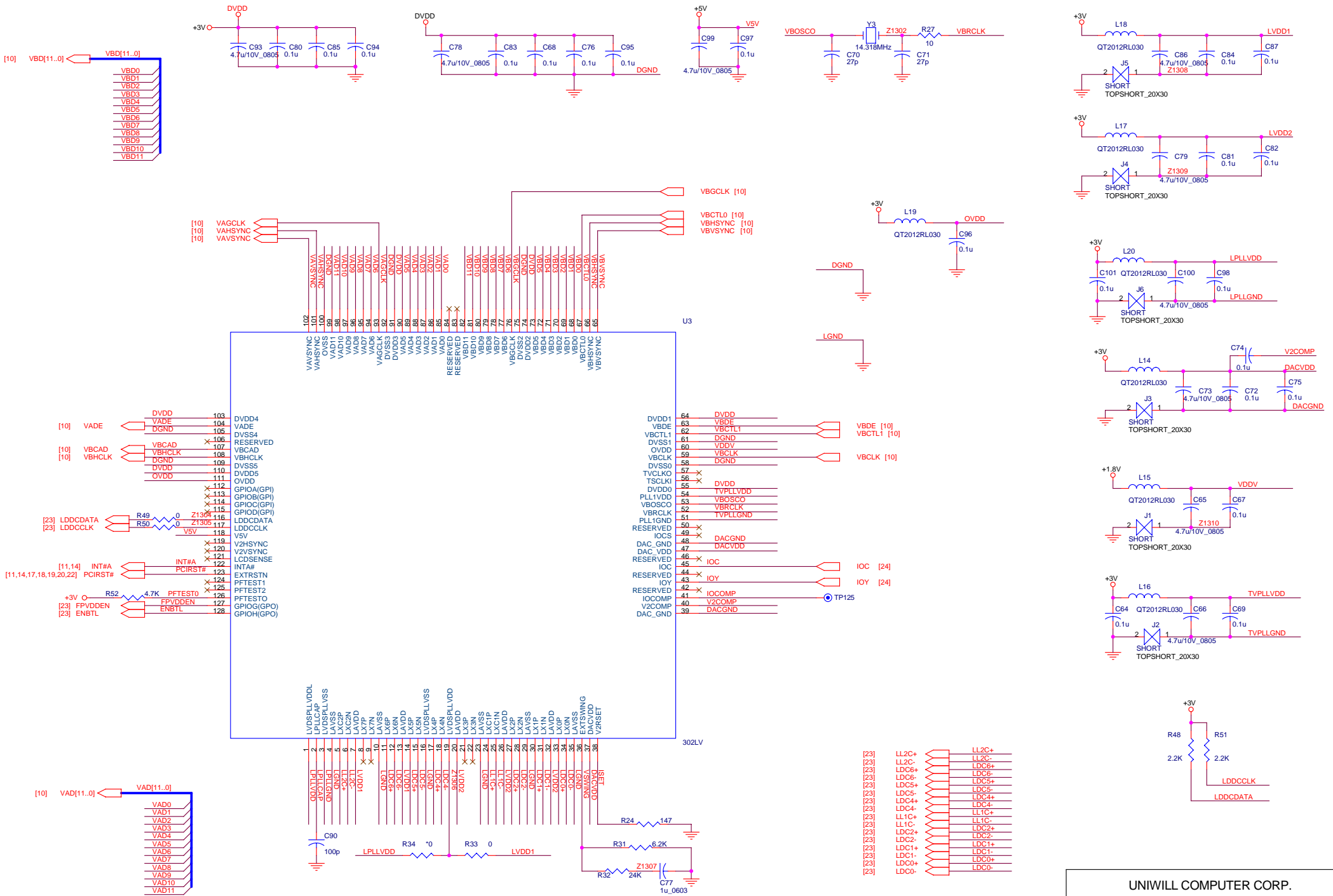
The differences between the traces of MuTIOL Strokes and Data should be smaller than 0.05"



The differences between the traces of MuTIOL Strokes and Data should be smaller than 0.05"



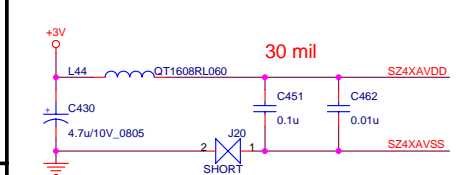
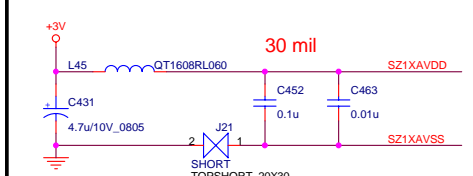
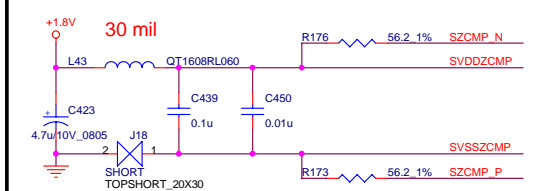
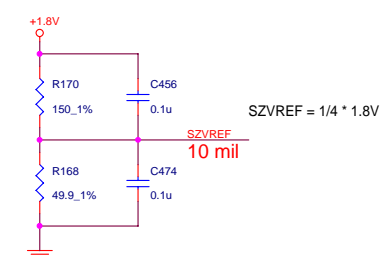
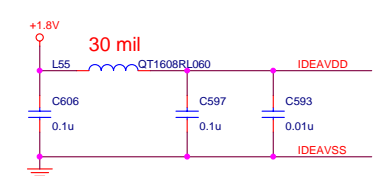
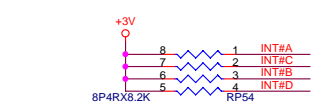
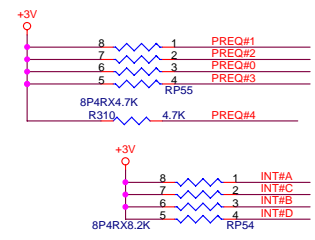
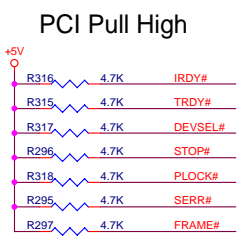
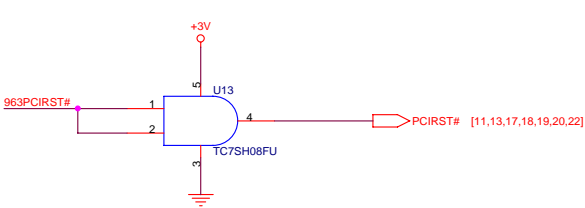
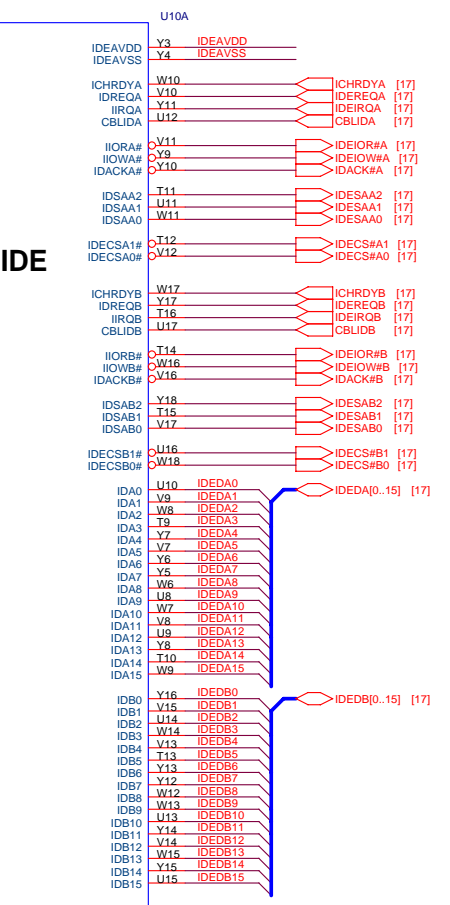
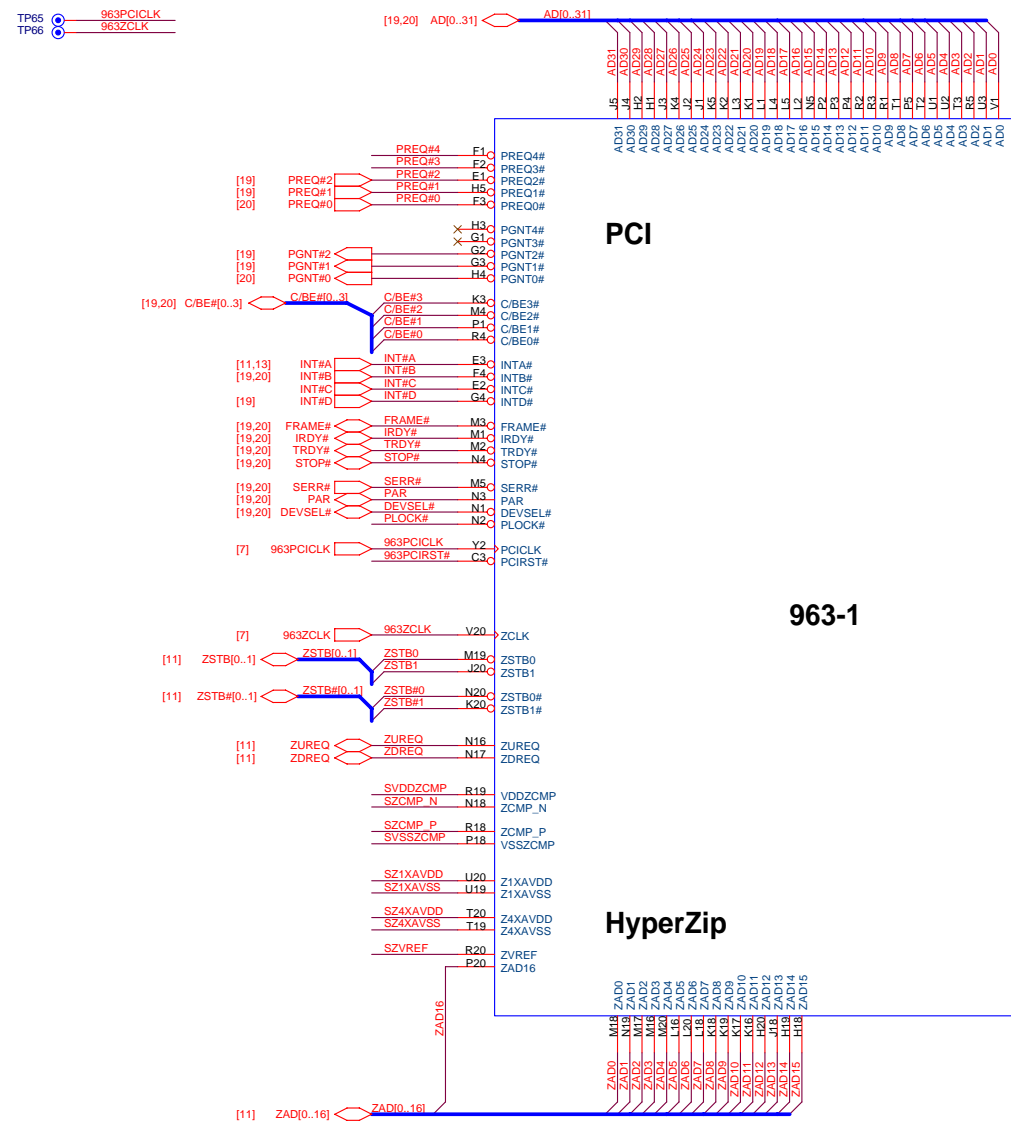
UNIWILL COMPUTER CORP.			
Title SIS760 MUTIOL&HW TRAP			
Size	Document Number	Rev 01	
	255 / 259KIX		
Date:	Tuesday, September 07, 2004	Sheet	11 of 34



UNIWILL COMPUTER CORP.

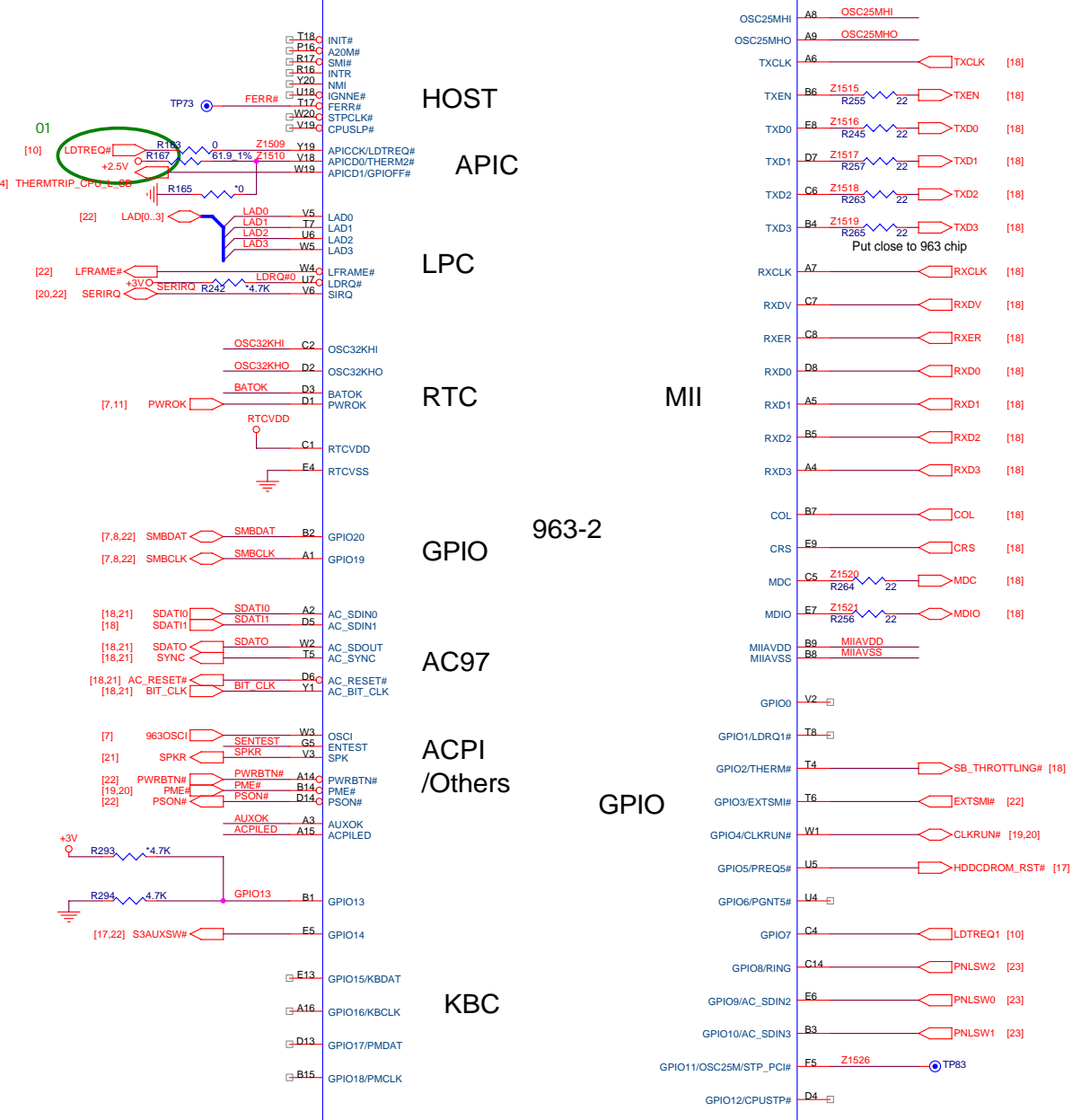
Title		SIS302LV	
Size	Document Number	255 / 259KIX	
Date:	Tuesday, September 07, 2004	Sheet	13 of 34

SOUTH BRIDGE -1

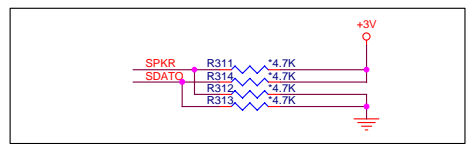


UNIWILL COMPUTER CORP.		
Title SIS963L(HYPERZIP & PCI & IDE)		
Size	Document Number 255 / 259KIX	Rev 01
Date:	Tuesday, September 07, 2004	Sheet 14 of 34

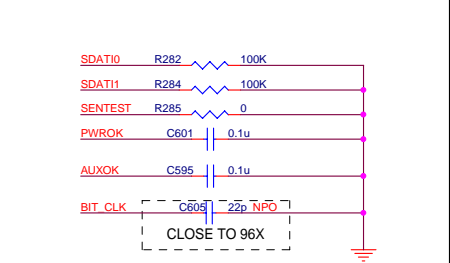
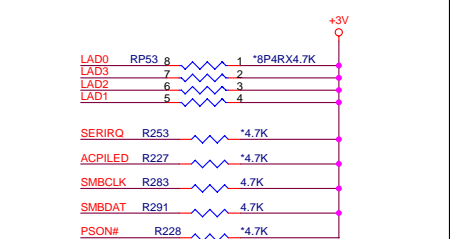
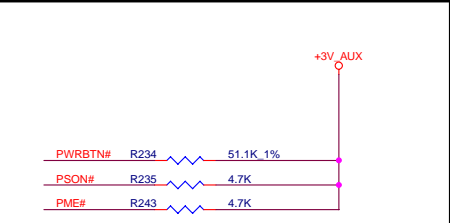
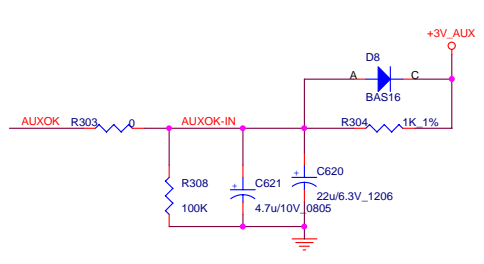
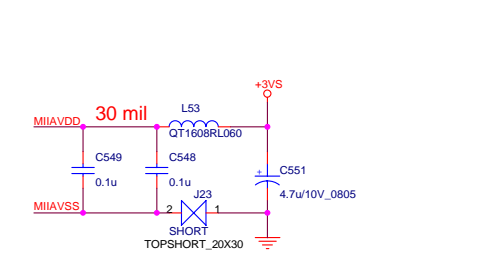
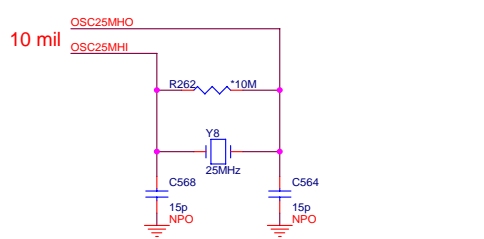
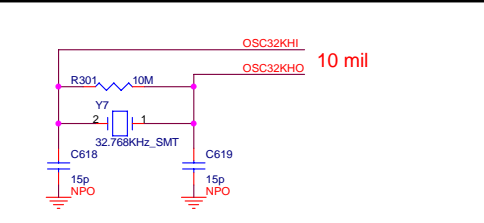
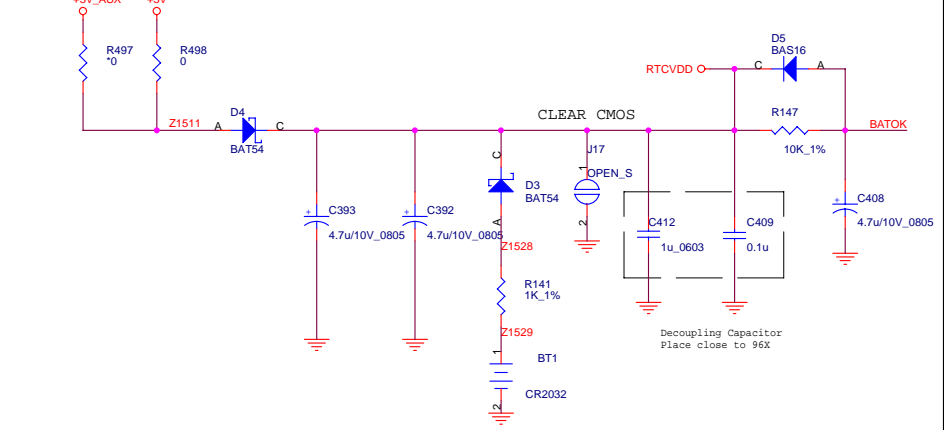
SOUTH BRIDGE -2



SB Hardware Trap



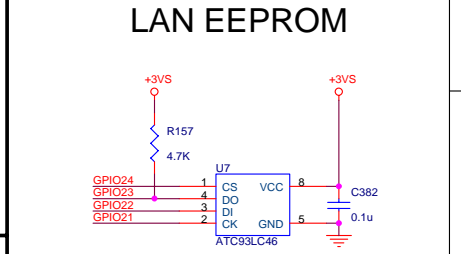
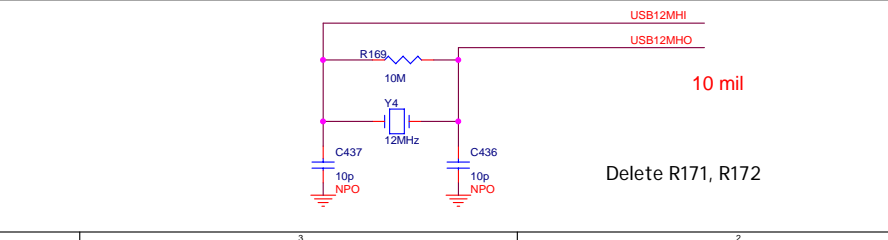
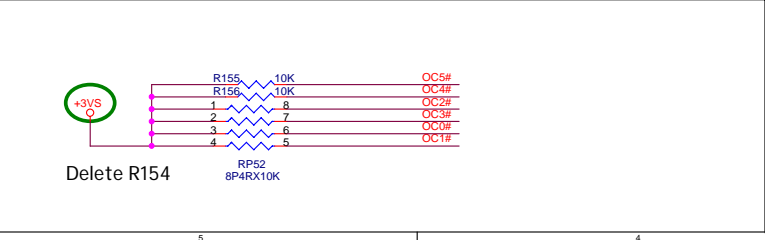
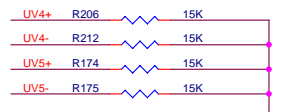
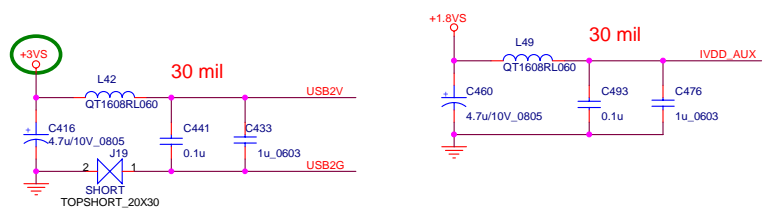
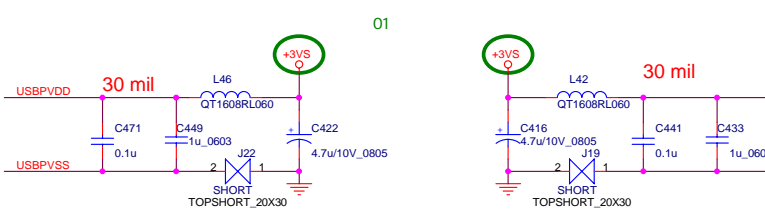
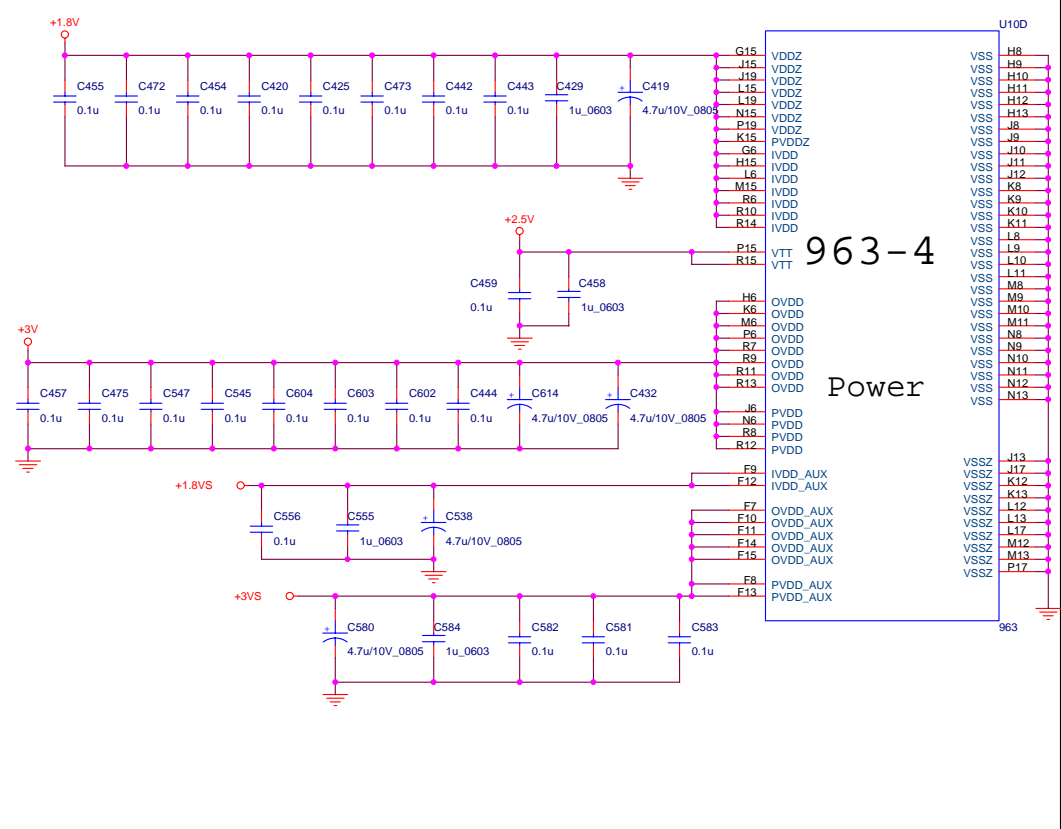
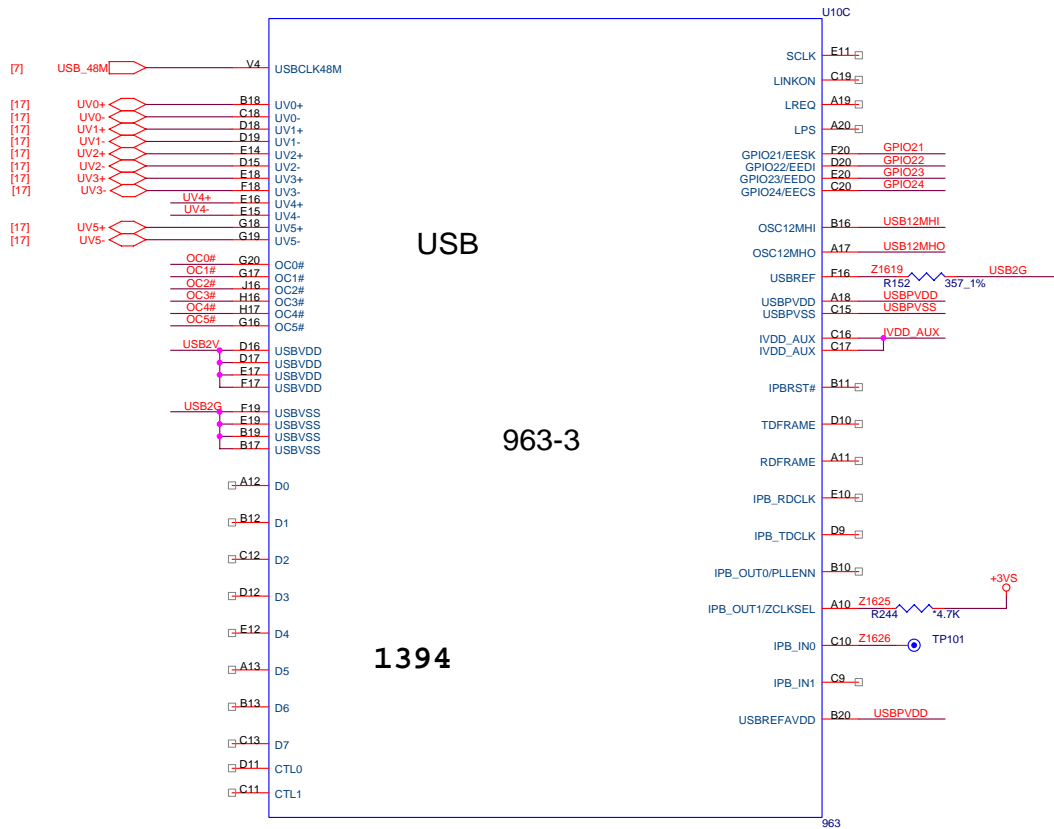
RTC



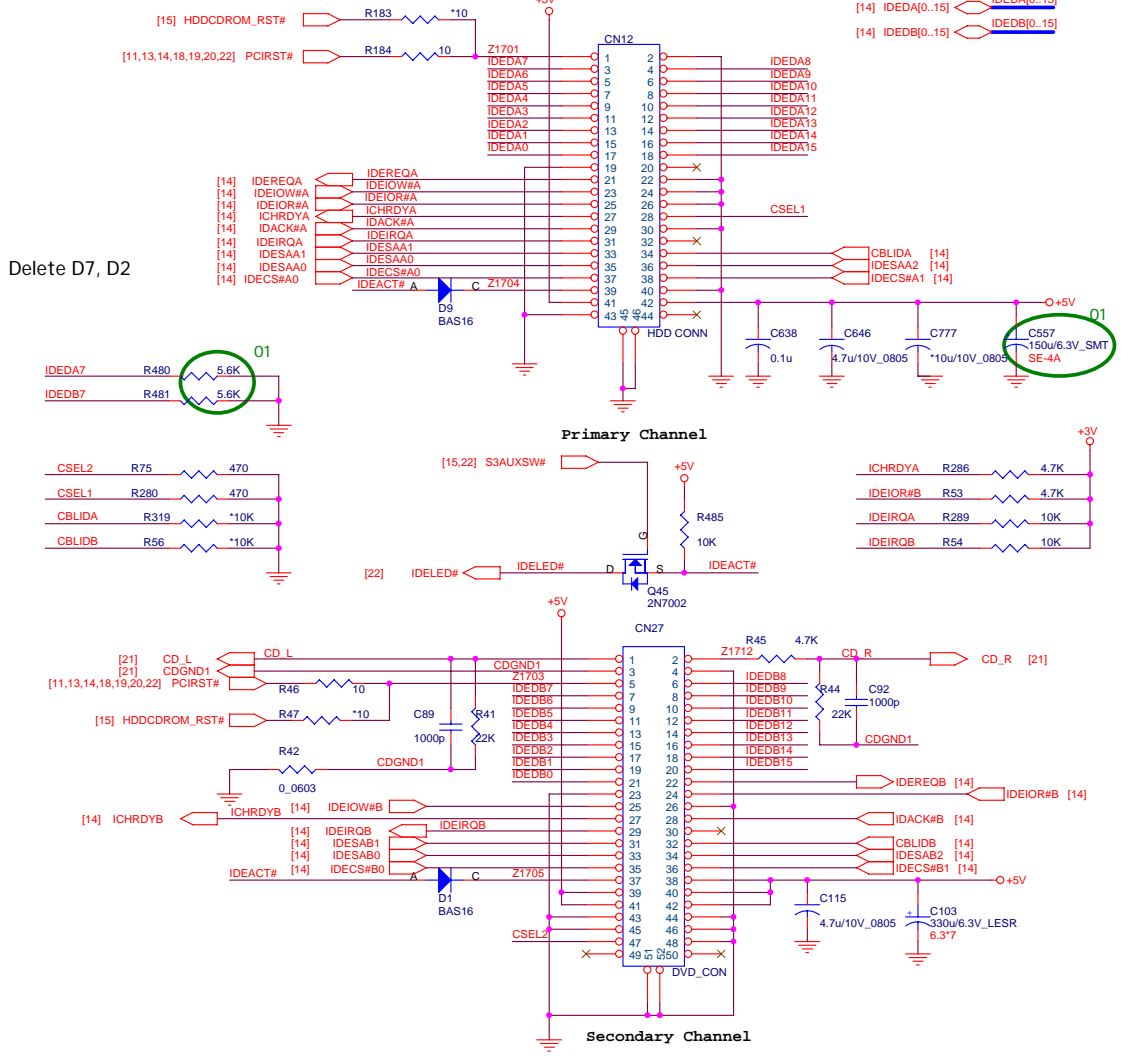
UNIWILL COMPUTER CORP.

Title		
SIS963L(GPIO & HOST & LPC & APIC & AC97 & MII & ACPI)		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 15 of 34

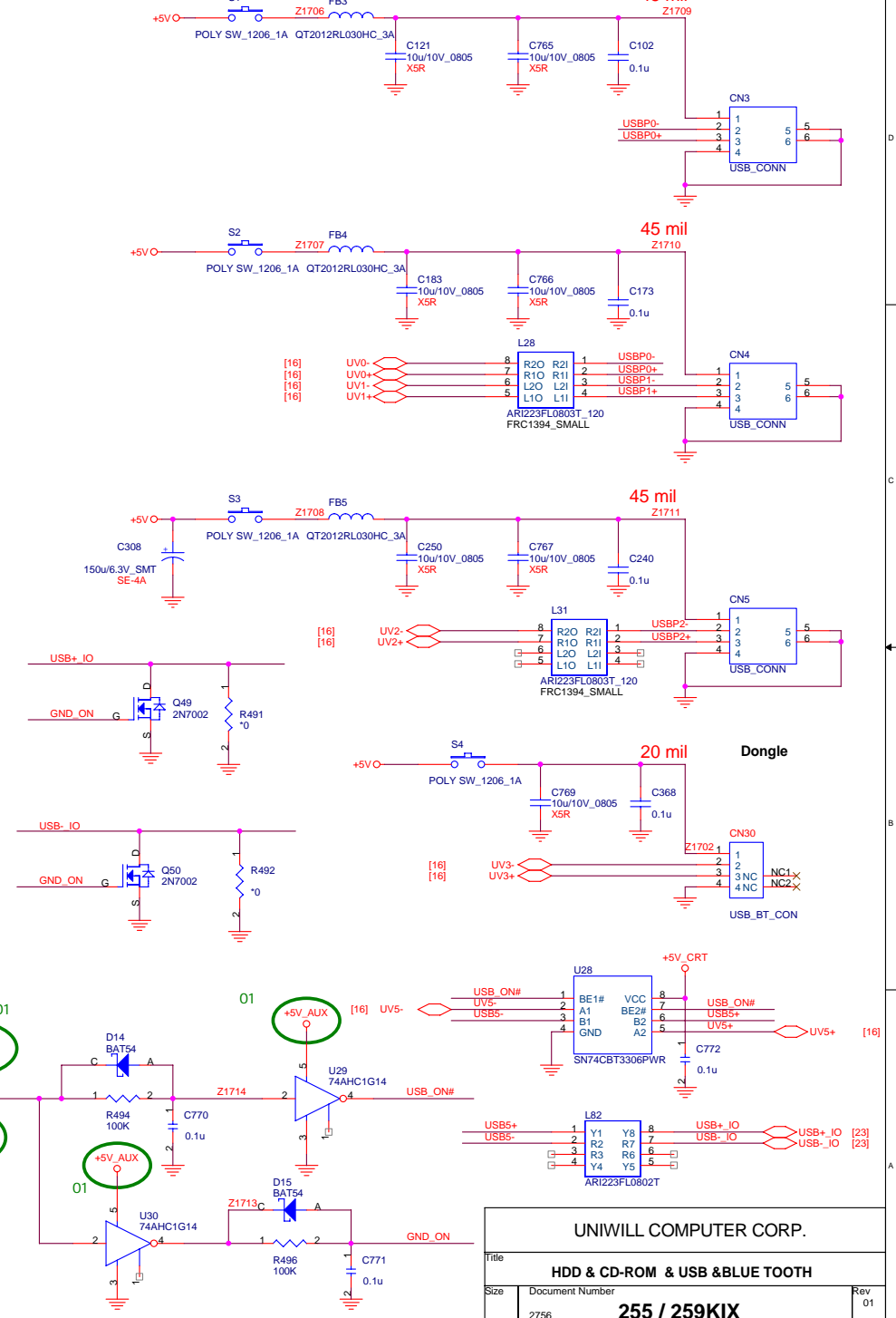
SOUTH BRIDGE -3/4



HDD & CD-ROM

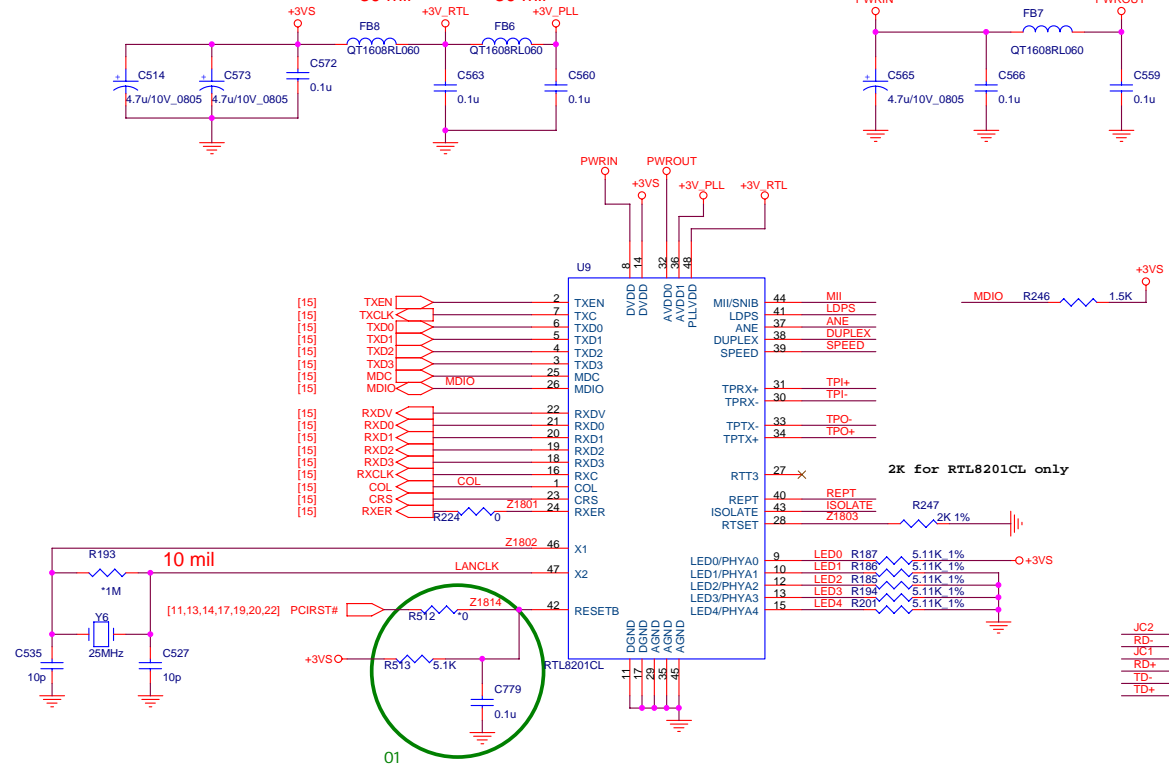


USB CONN

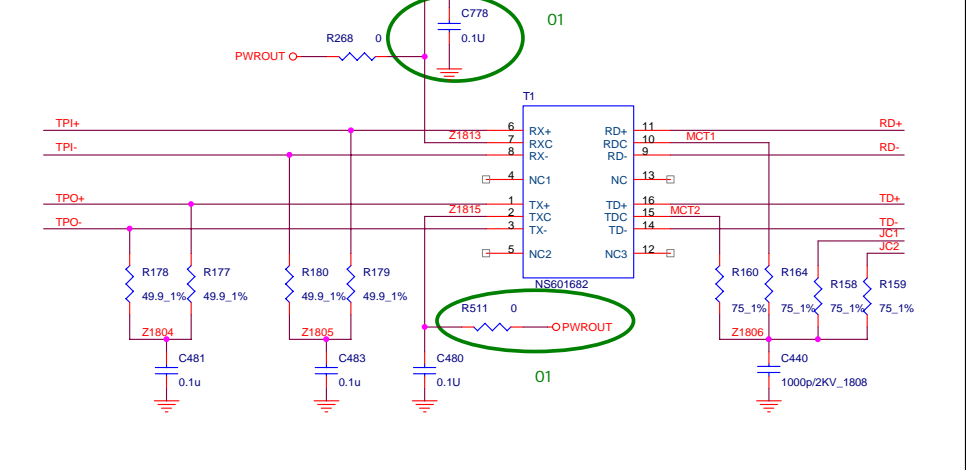


UNIWILL COMPUTER CORP.			
HDD & CD-ROM & USB & BLUE TOOTH			
Title	Document Number		Rev 01
	255 / 259KIX		
Date:	Tuesday, September 07, 2004	Sheet	17 of 34

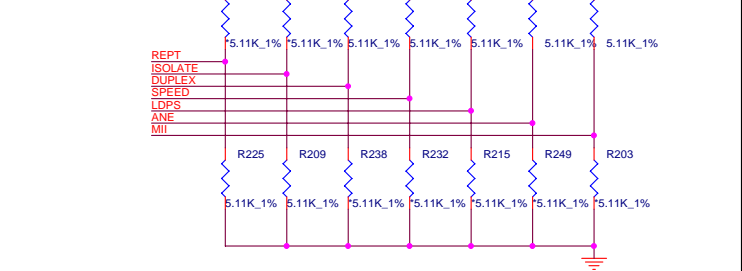
LAN PHY



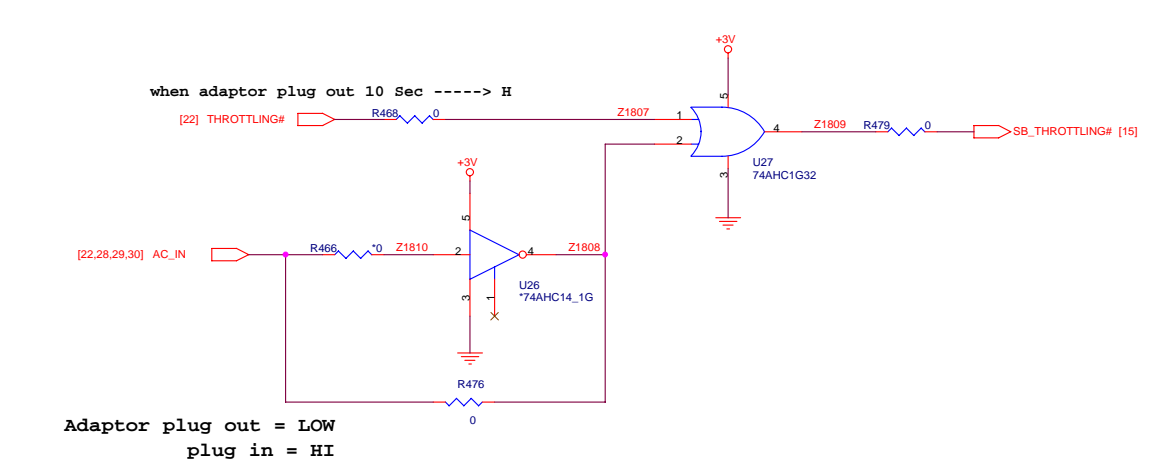
TRANSFORMER



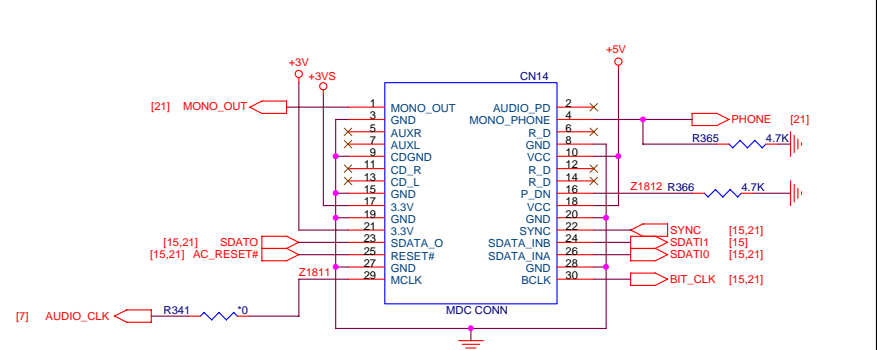
LAN Hardware Strapping

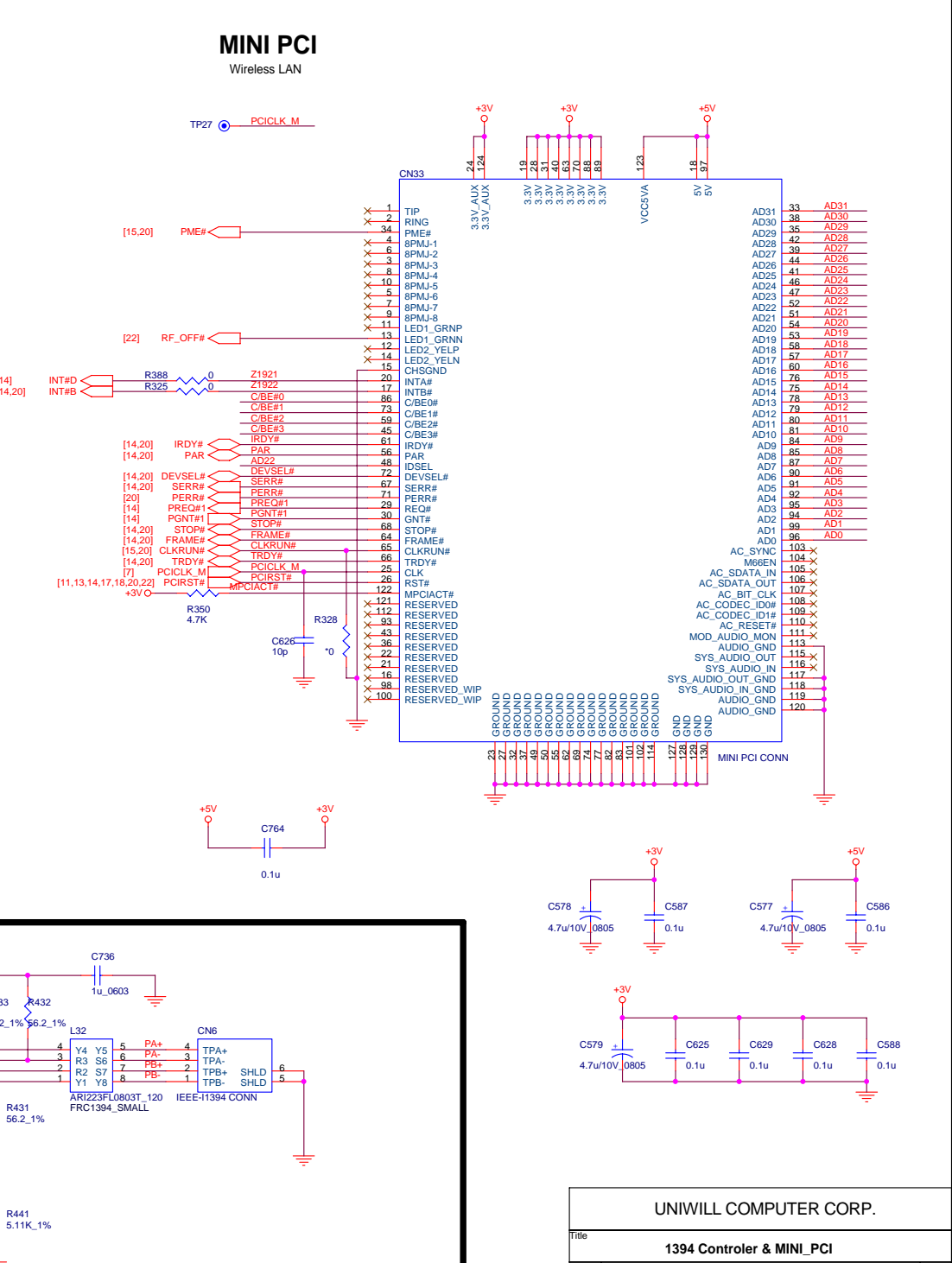
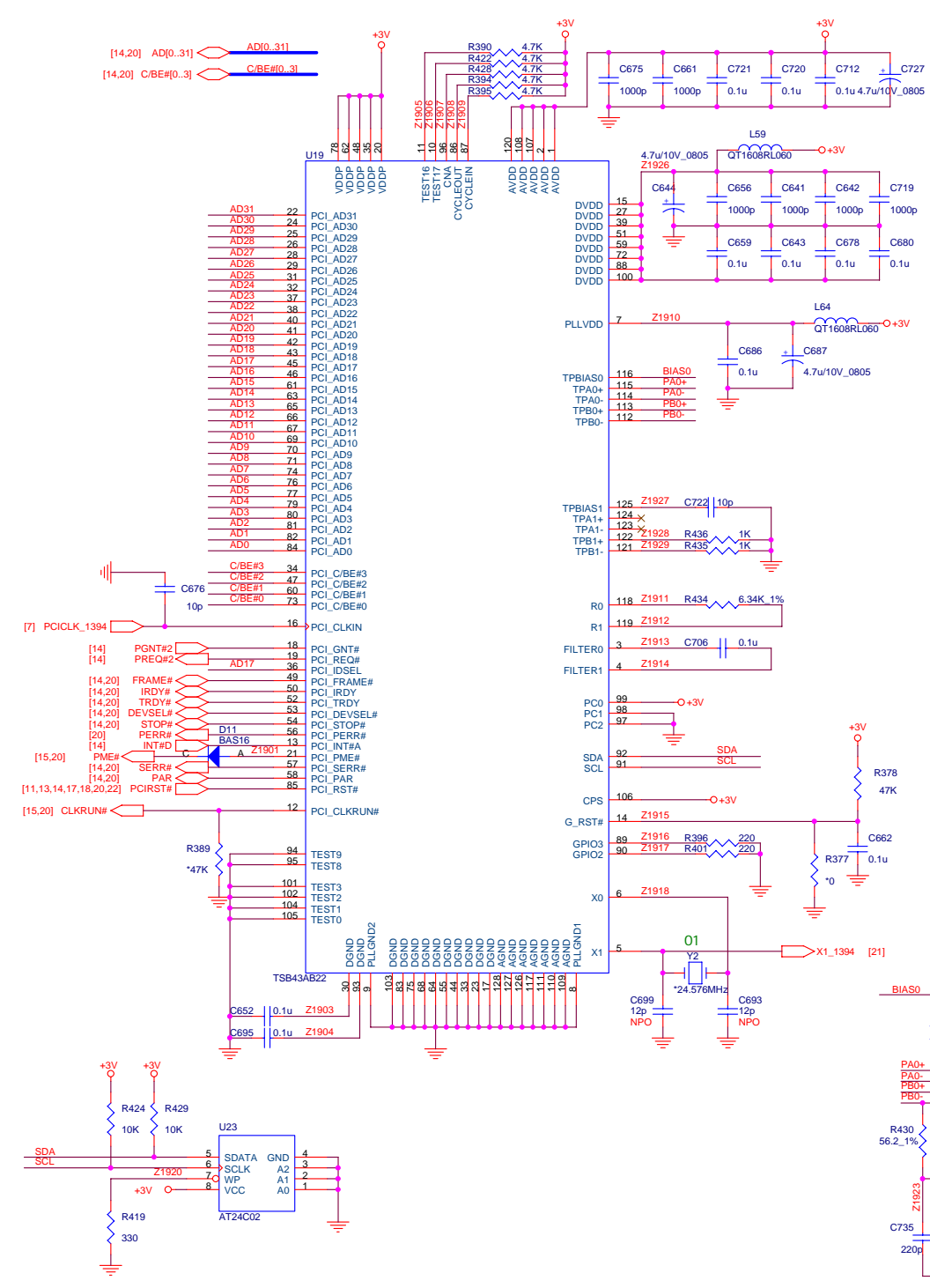


AMD THROTTLING MODE CONTROL

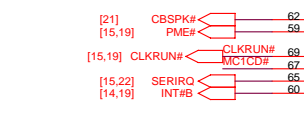
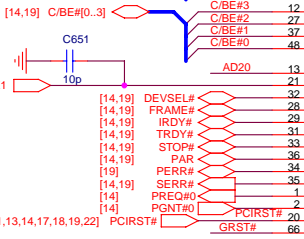
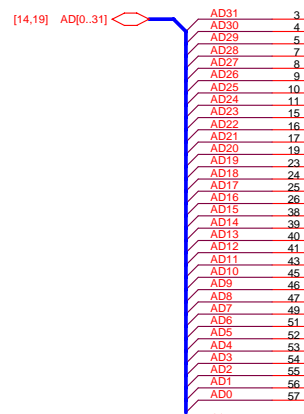
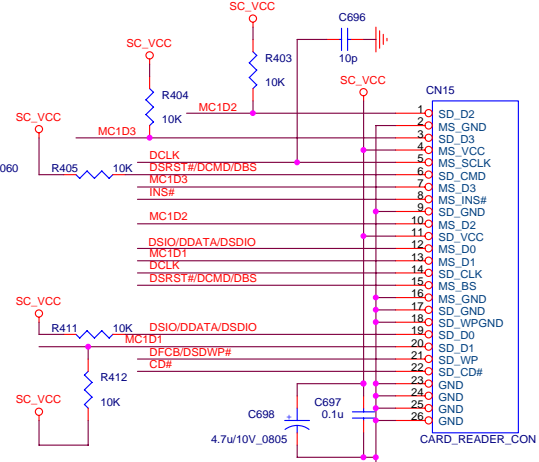
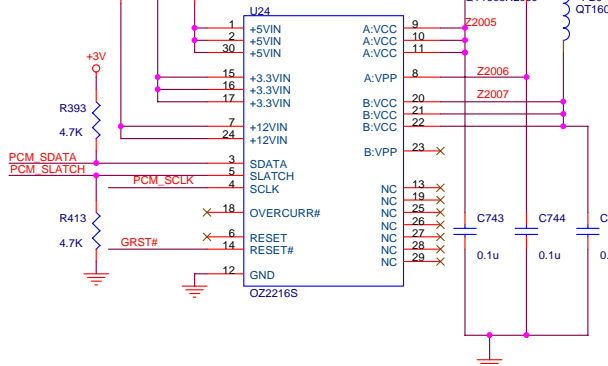
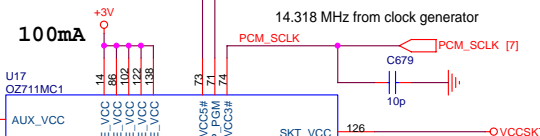
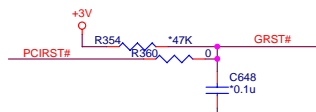


MDC



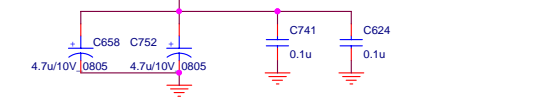
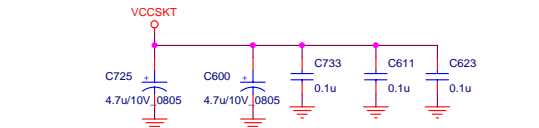
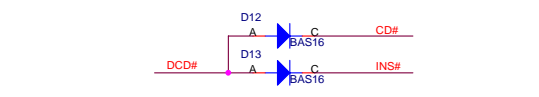
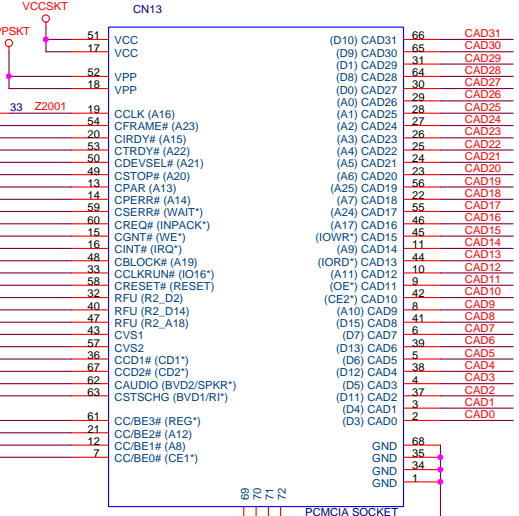


If an EEPROM is not implemented, then both the SDA and SCL pins should be connected GND with 220-ohm pull-down resistors



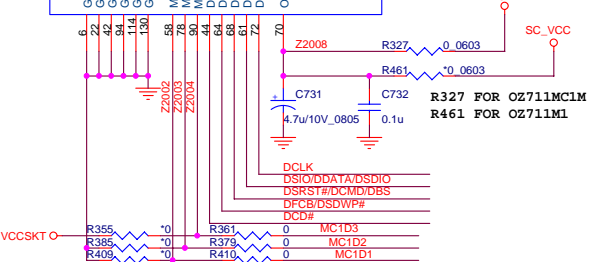
O₂ MICRO OZ711MC1

CAD31	144	CAD31	66	CAD31	66	CAD31	66
CAD30	142	CAD30	65	CAD30	65	CAD30	65
CAD29	141	CAD29	31	CAD29	31	CAD29	31
CAD28	140	CAD28	64	CAD28	64	CAD28	64
CAD27	139	CAD27	30	CAD27	30	CAD27	30
CAD26	129	CAD26	29	CAD26	29	CAD26	29
CAD25	122	CAD25	27	CAD25	27	CAD25	27
CAD24	124	CAD24	28	CAD24	28	CAD24	28
CAD23	121	CAD23	26	CAD23	26	CAD23	26
CAD22	120	CAD22	25	CAD22	25	CAD22	25
CAD21	118	CAD21	24	CAD21	24	CAD21	24
CAD20	116	CAD20	23	CAD20	23	CAD20	23
CAD19	115	CAD19	22	CAD19	22	CAD19	22
CAD18	113	CAD18	21	CAD18	21	CAD18	21
CAD17	111	CAD17	20	CAD17	20	CAD17	20
CAD16	98	CAD16	19	CAD16	19	CAD16	19
CAD15	97	CAD15	18	CAD15	18	CAD15	18
CAD14	93	CAD14	17	CAD14	17	CAD14	17
CAD13	95	CAD13	16	CAD13	16	CAD13	16
CAD12	92	CAD12	15	CAD12	15	CAD12	15
CAD11	91	CAD11	14	CAD11	14	CAD11	14
CAD10	89	CAD10	13	CAD10	13	CAD10	13
CAD9	87	CAD9	12	CAD9	12	CAD9	12
CAD8	85	CAD8	11	CAD8	11	CAD8	11
CAD7	82	CAD7	10	CAD7	10	CAD7	10
CAD6	83	CAD6	9	CAD6	9	CAD6	9
CAD5	80	CAD5	8	CAD5	8	CAD5	8
CAD4	81	CAD4	7	CAD4	7	CAD4	7
CAD3	77	CAD3	6	CAD3	6	CAD3	6
CAD2	79	CAD2	5	CAD2	5	CAD2	5
CAD1	76	CAD1	4	CAD1	4	CAD1	4
CAD0	76	CAD0	3	CAD0	3	CAD0	3
CAD0	76	CAD0	2	CAD0	2	CAD0	2



**DEL R415 FOR OZ711M1
DEL R408 FOR OZ711MC1**

CD#	R415	22K	0
INS#	R408	22K	0
DFCB/DSDWP#	R427	22K	0
CD#	R414	22K	0
DCD#	R406	22K	0
INS#	R407	22K	0
CLKRUN#	R426	22K	0
SERIRQ#	R425	22K	0
CDEVSEL#	R300	22K	0
CSTOP#	R324	22K	0
CPERR#	R335	22K	0
CINT#	R298	22K	0
CBLOCK#	R334	22K	0



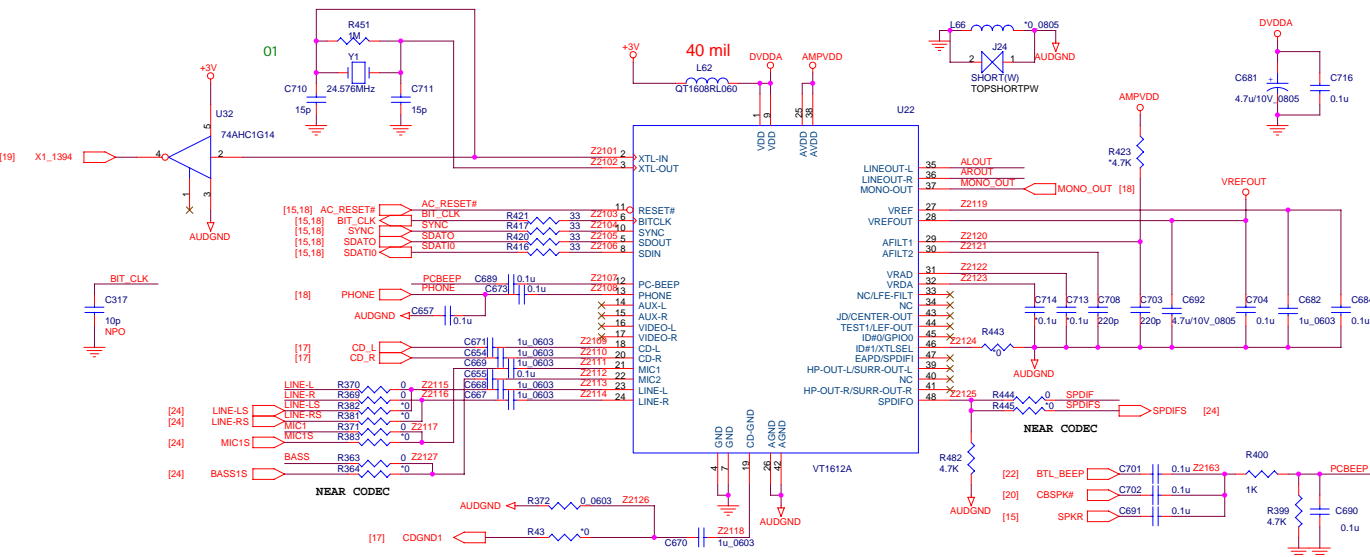
R361, R379, R410 FOR OZ711M1 (4bit Mode)
R355, R385, R409 FOR OZ711M1 (1bit Mode)

UNIWILL COMPUTER CORP.

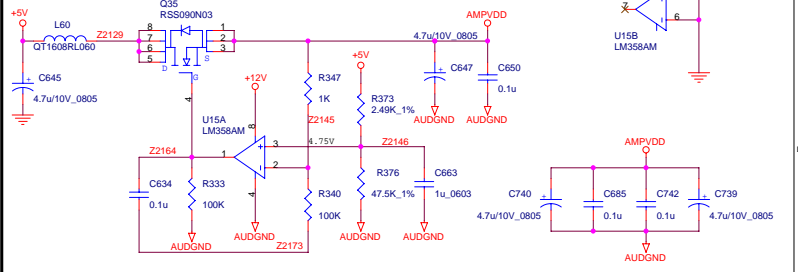
CARBUS OZ711M1

Title	CARBUS OZ711M1		Rev	01
Size	Document Number	255 / 259KIX		
	2756			
Date:	Tuesday, September 07, 2004	Sheet	20	of 34

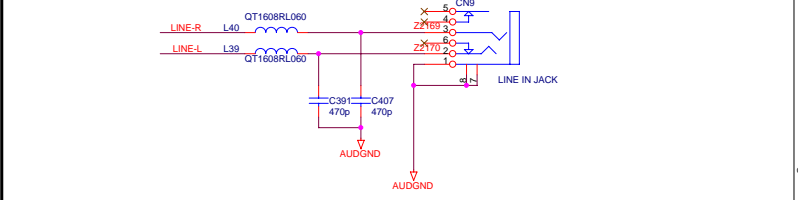
AUDIO CODEC



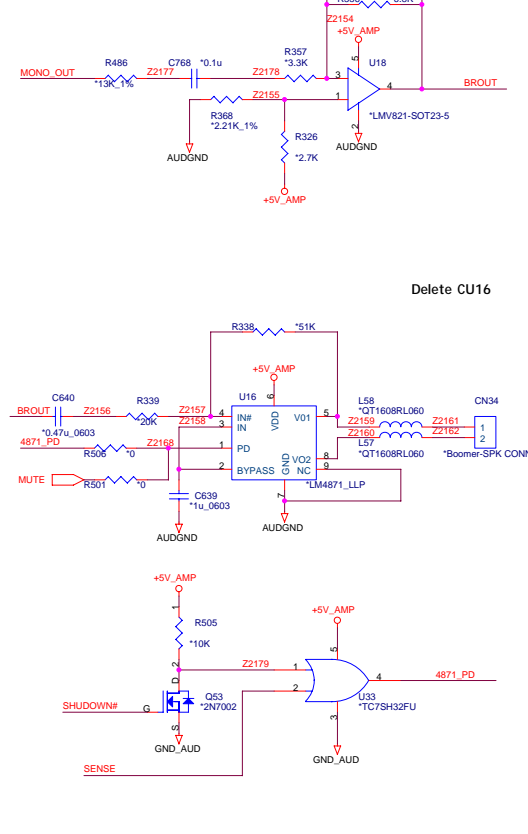
AMP VDD



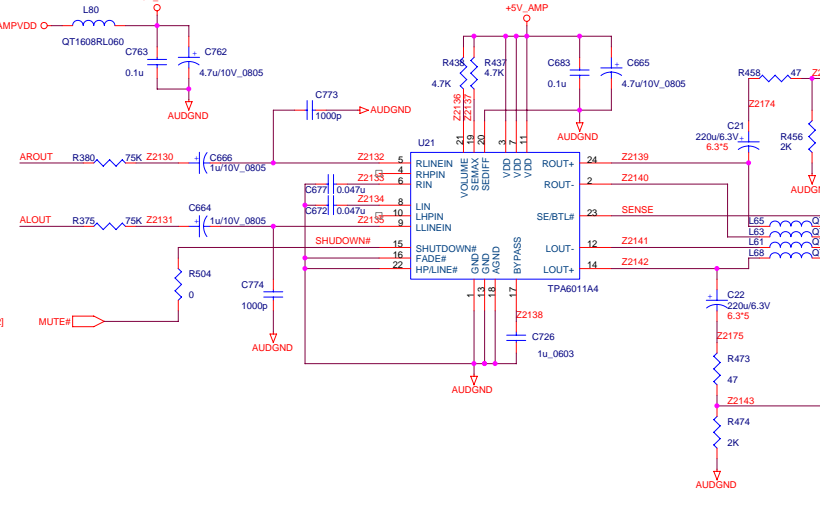
LINE IN



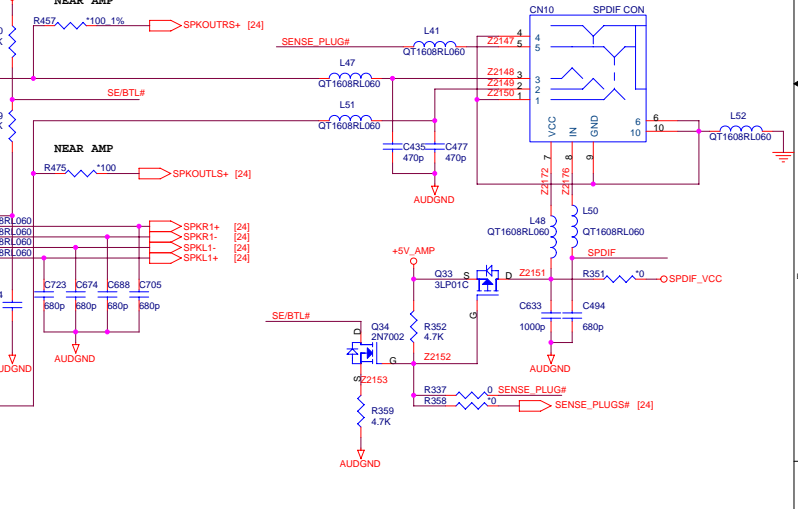
Sub. Boonmer



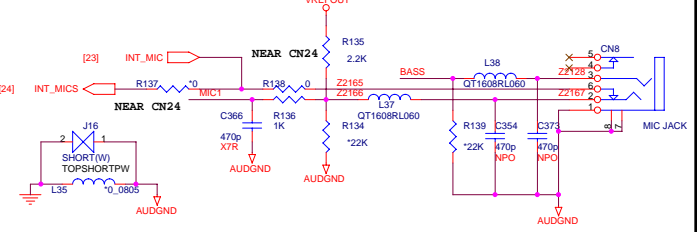
AMP & SPEAKER



LINE OUT/SPDIF OUT

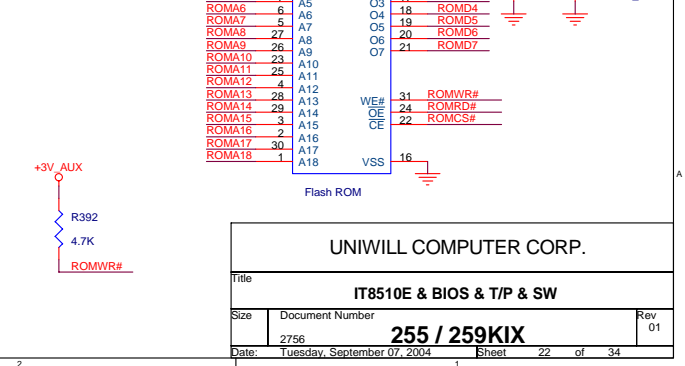
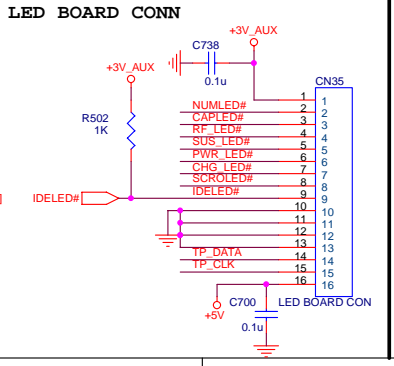
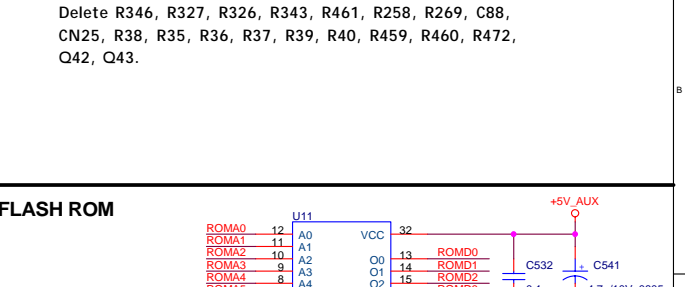
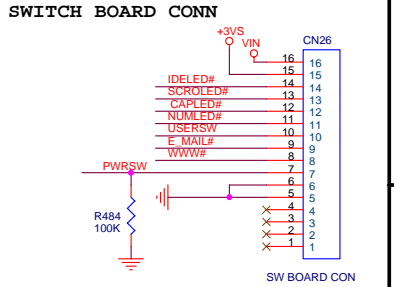
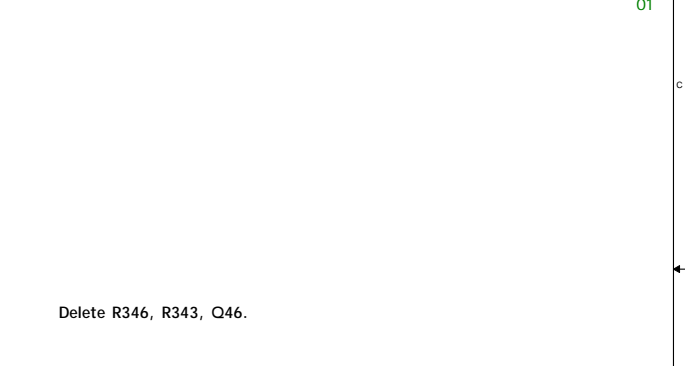
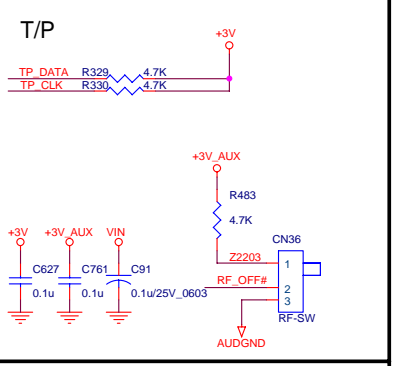
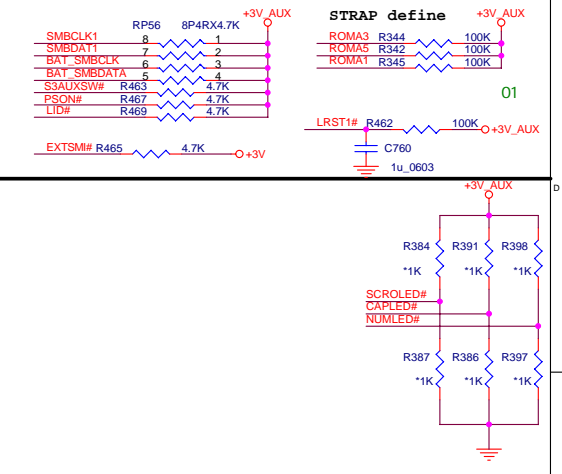
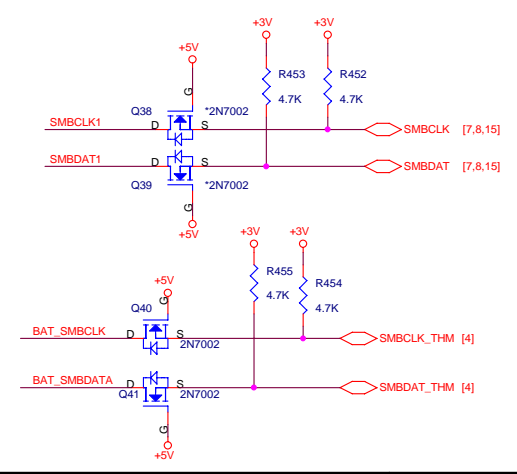
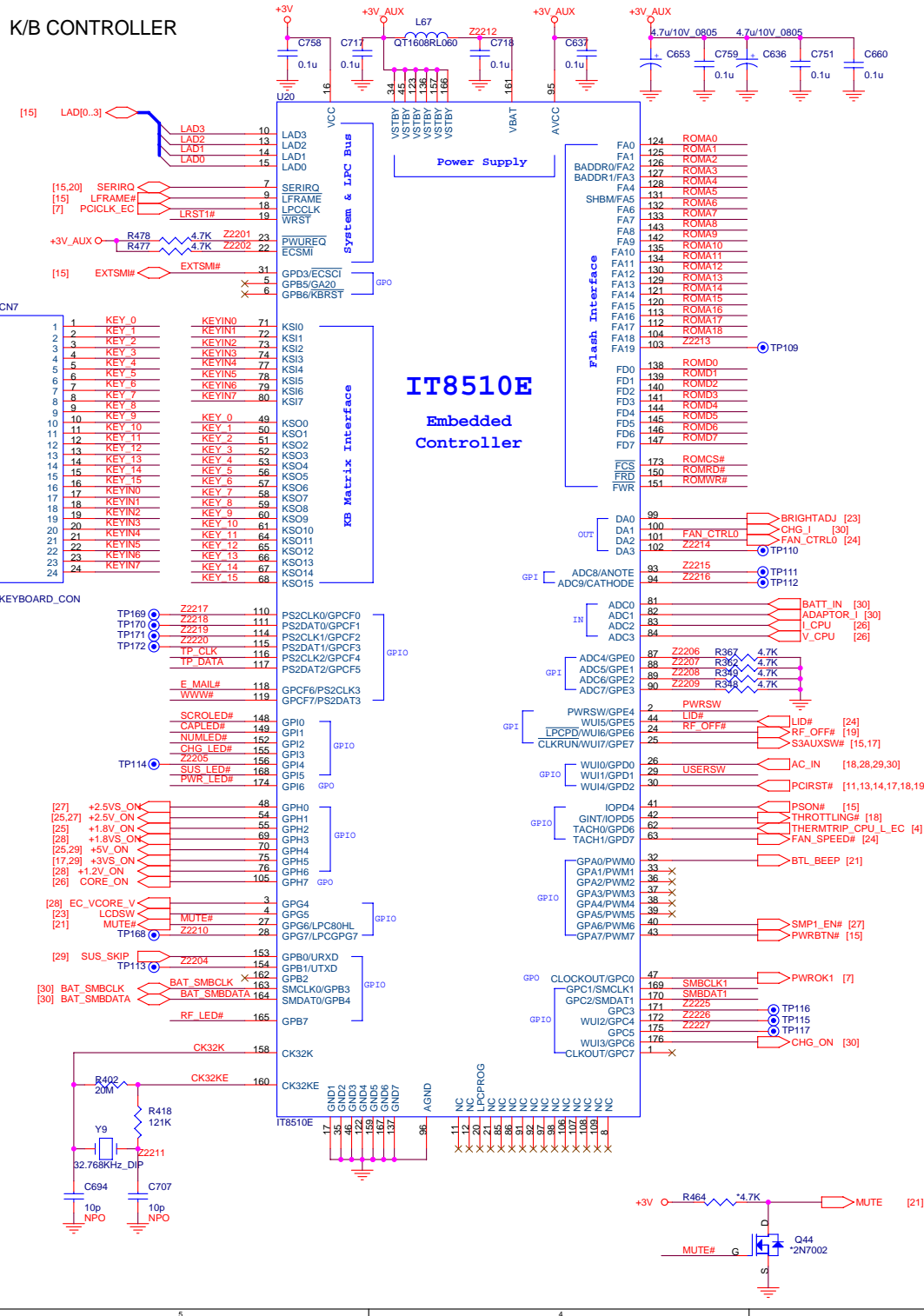


MIC



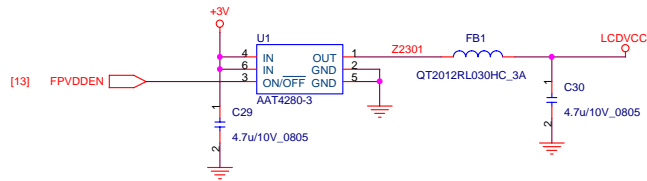
- ID1:**
 BOM delete R382, R381, R383, R364, R445, R457, R475, R358, R351, R137, CN16, CN17, CN18, L74, L71, L69, C728, C734, L78, L76, L70, C754, C729, L79, L75, C753, C755, R446, L77, R448, L81, R447, C750, L72, L73, C748, C749.
- BOM add** R370, R369, R371, R363, R444, CN8, CN9, CN10, L38, L37, C373, C354, R135, R136, C366, L35, L39, L40, C391, C407, L41, L47, L51, C435, C477, L48, L50, L52, R337, C633, C494, R138.
- ID3:**
 BOM add R382, R381, R383, R364, R445, R457, R475, R358, R351, R137, CN16, CN17, CN18, L74, L71, L69, C728, C734, L78, L76, L70, C754, C729, L79, L75, C753, C755, L77, R448, L81, R447, C750, L72, L73, C748, C749.
- BOM delete** R370, R369, R371, R363, R444, CN8, CN9, CN10, L38, L37, C373, C354, R135, R136, C366, L35, L39, L40, C391, C407, L41, L47, L51, C435, C477, L48, L50, L52, R337, C633, C494, R138.

K/B CONTROLLER

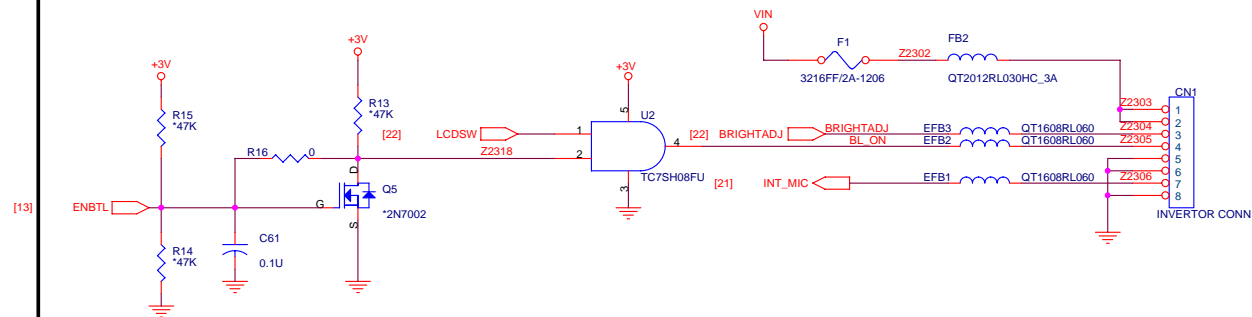


UNIWILL COMPUTER CORP.		
Title	IT8510E & BIOS & T/P & SW	
Size	Document Number	Rev
	2756	01
Date:	Tuesday, September 07, 2004	Sheet 22 of 34

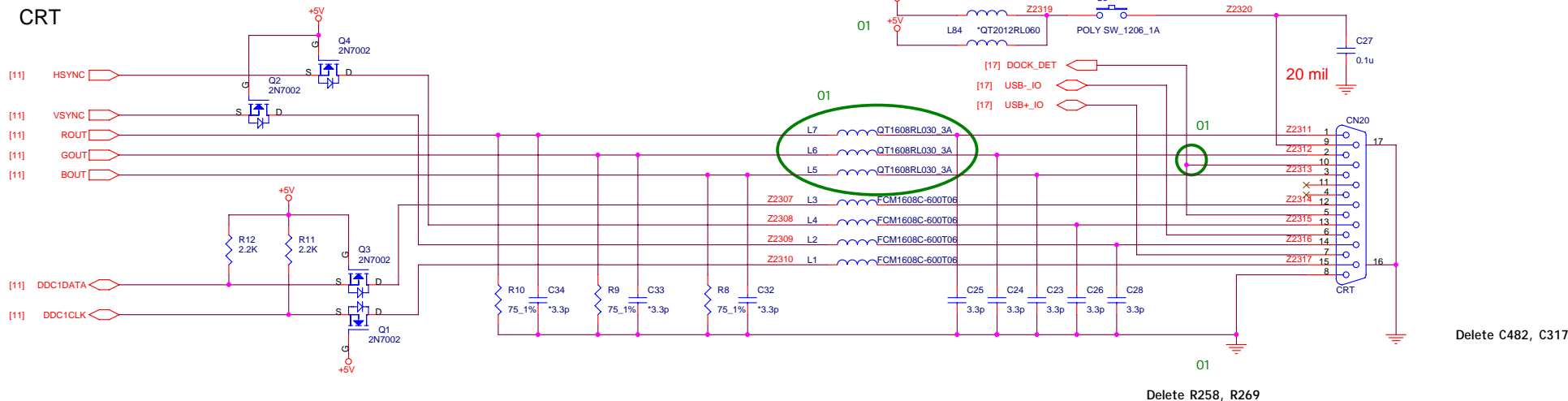
LCDVCC



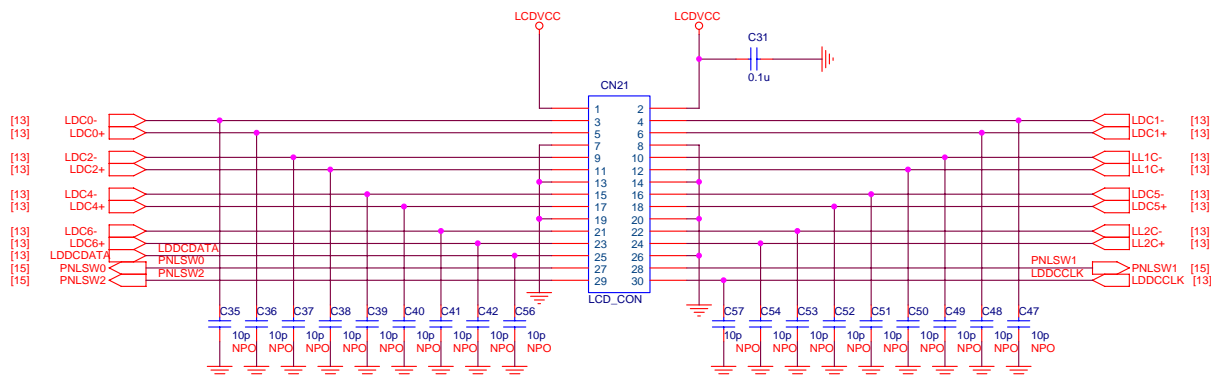
INVERTER



CRT



LCD



PNLSW2	PNLSW1	PNLSW0	
L	L	L	reserved
L	L	H	reserved
L	H	L	1600X1200
L	H	H	1400X1050
H	L	L	1280X1024
H	L	H	1280X854
H	H	L	1280X800
H	H	H	1024X768

PANNEL SELECT

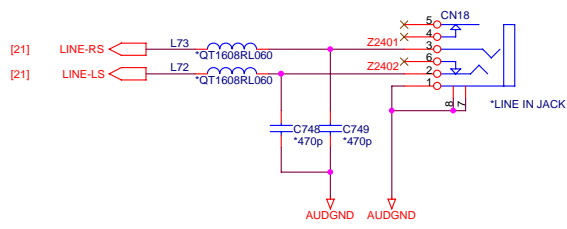


Delete R18, R19

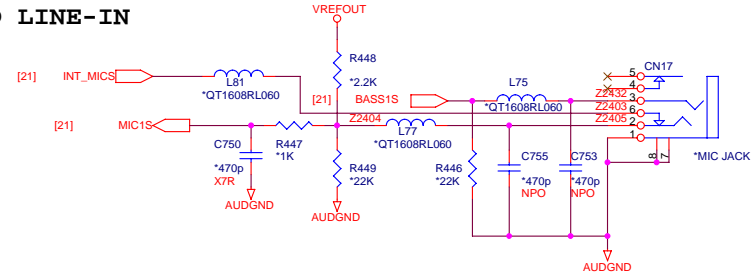
UNIWILL COMPUTER CORP.

Title			LVDS & INVERTER & PANNEL SELECT		
Size	Document Number				Rev
	2756				01
Date:	Tuesday, September 07, 2004	Sheet	23	of	34

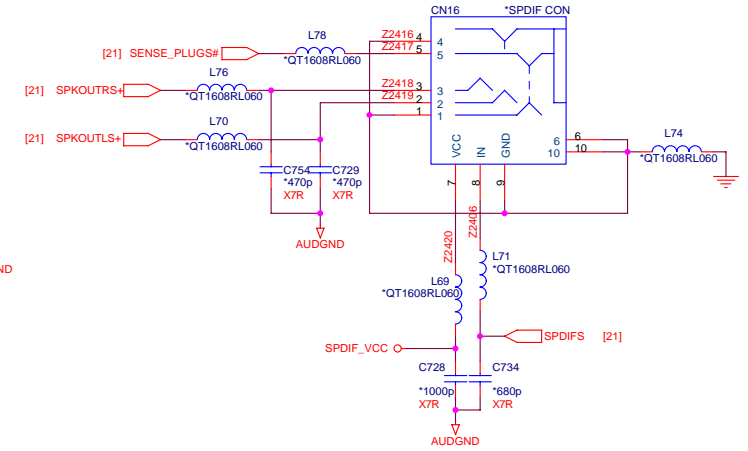
SECOND ID MIC



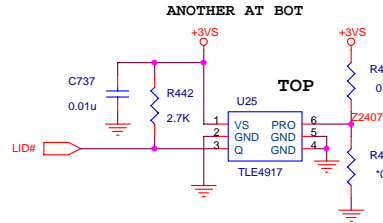
SECOND ID LINE-IN



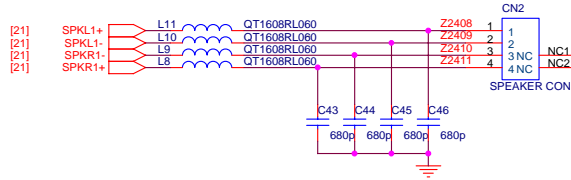
SECOND ID LINE/SPDIF OUT



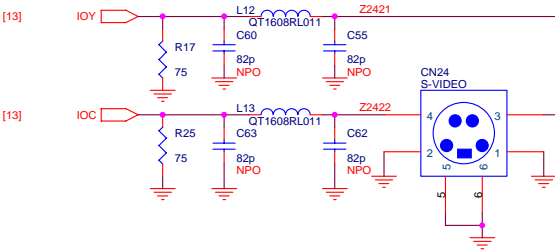
HALL SENSOR



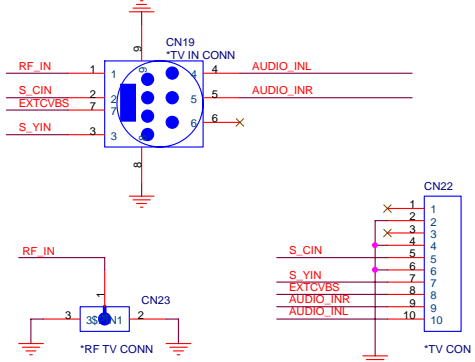
SPEAKER



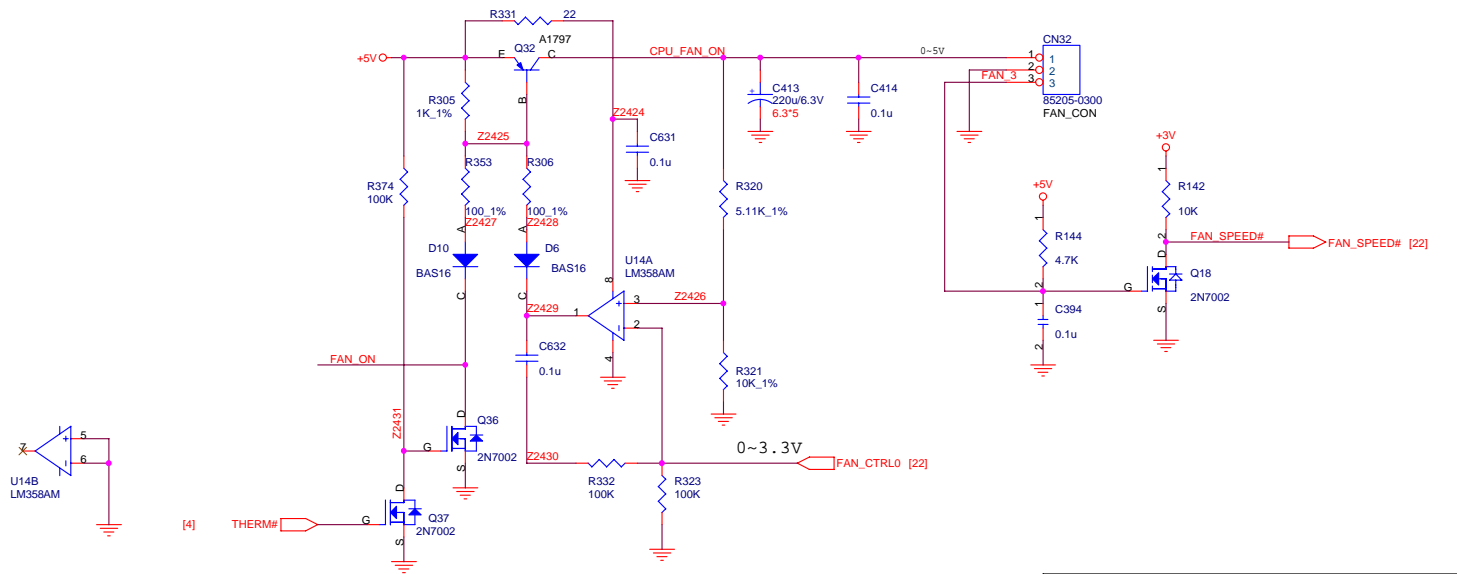
TV OUT



TV IN

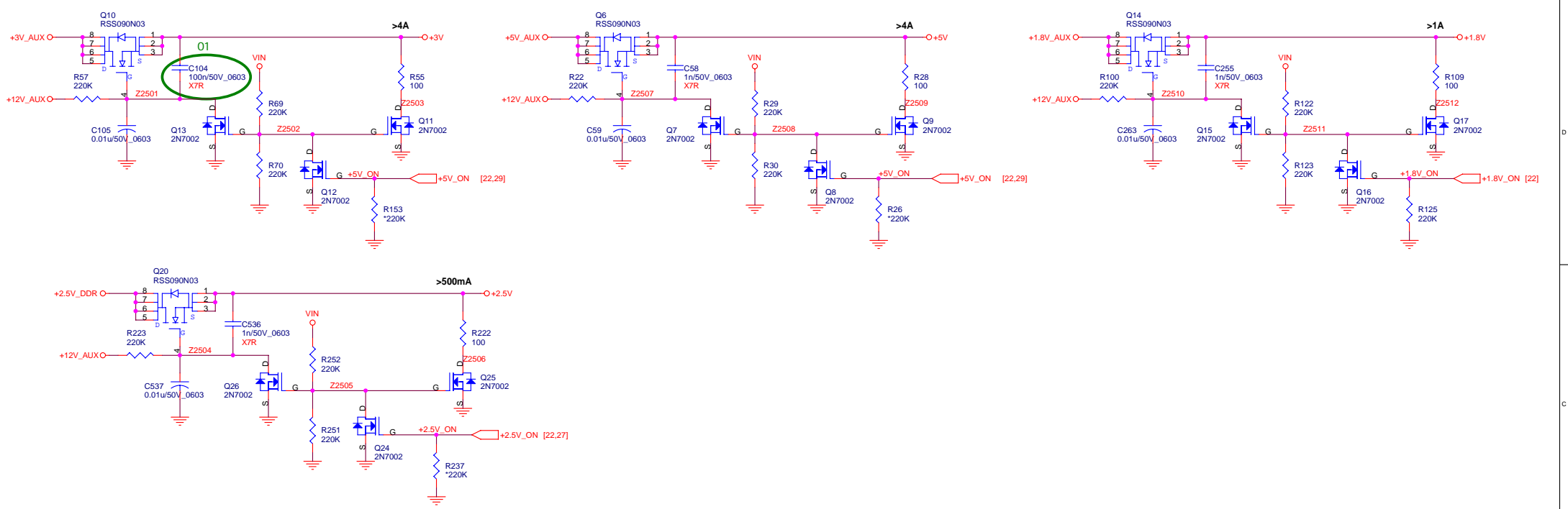


CPU FAN



UNIWILL COMPUTER CORP.

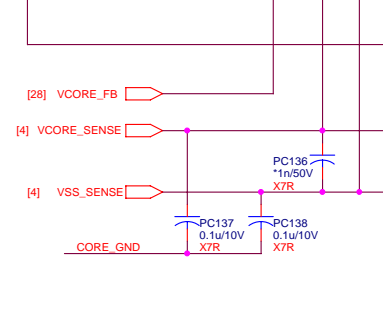
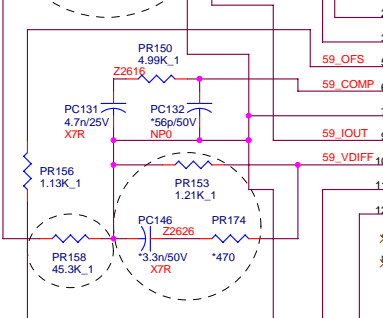
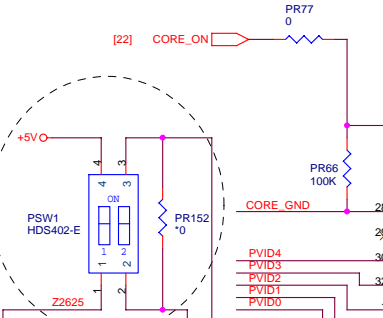
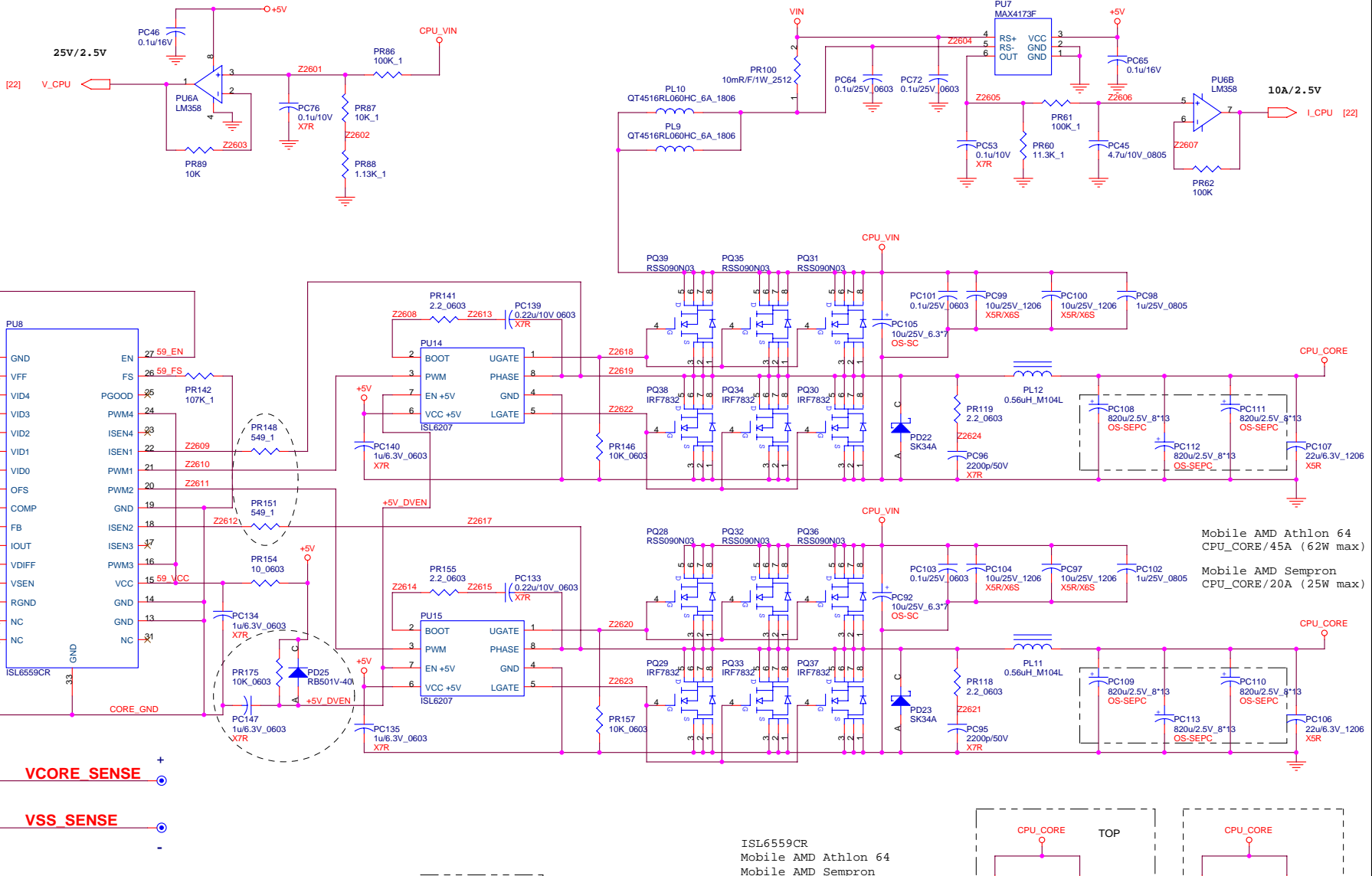
Title		
FAN & TV & 2nd AUDIO & HALL		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 24 of 34



UNIWILL COMPUTER CORP.		
Title		
VCC MOSFET SWITCH		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 25 of 34

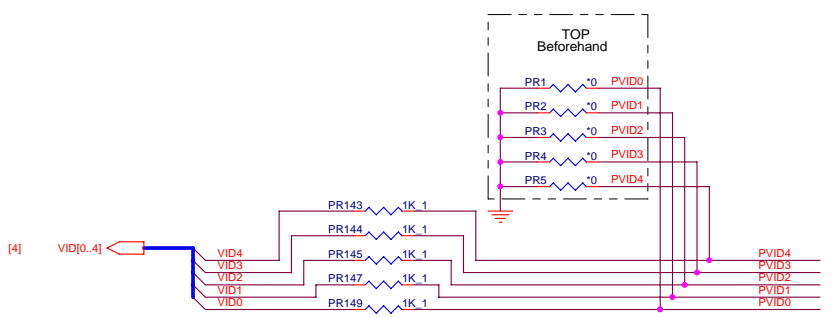
PSW1 Switch Table

AMD K8	62W	35W	25W
PSW1_1	OFF	ON	ON
PSW1_2	OFF	ON	ON



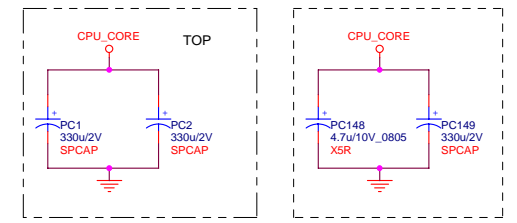
Mobile AMD Sempron (Low power mobile) 25W
 100mV negative OFFSET (VID=1.35V)
 R_{os}=R_{fb}*(5V-VID)/100mV R_{fs}=V_{ofs}*10/100uA
 R_{ds(on)}I_{out}=R_{fb}*72-108uA R_{fs}=PR142=107K_1 ~ 250KHz

259Kix Change List
 PC108,PC109,PC110,PC111,PC112,PC113 Change to 820u/2.5V 8*13 OS-SPEC / NP-PSC



ISL6559CR
 Mobile AMD Athlon 64
 Mobile AMD Sempron

VID4	VID3	VID2	VID1	VID0	Vcore
1	1	1	1	1	0.000
0	0	1	1	0	1.400
0	1	0	0	0	1.350
0	1	0	1	0	1.300
0	1	1	0	0	1.250
0	1	1	1	0	1.200
1	0	0	1	0	1.100
1	0	1	1	1	0.975
1	1	0	0	0	0.950
1	1	0	1	0	0.900

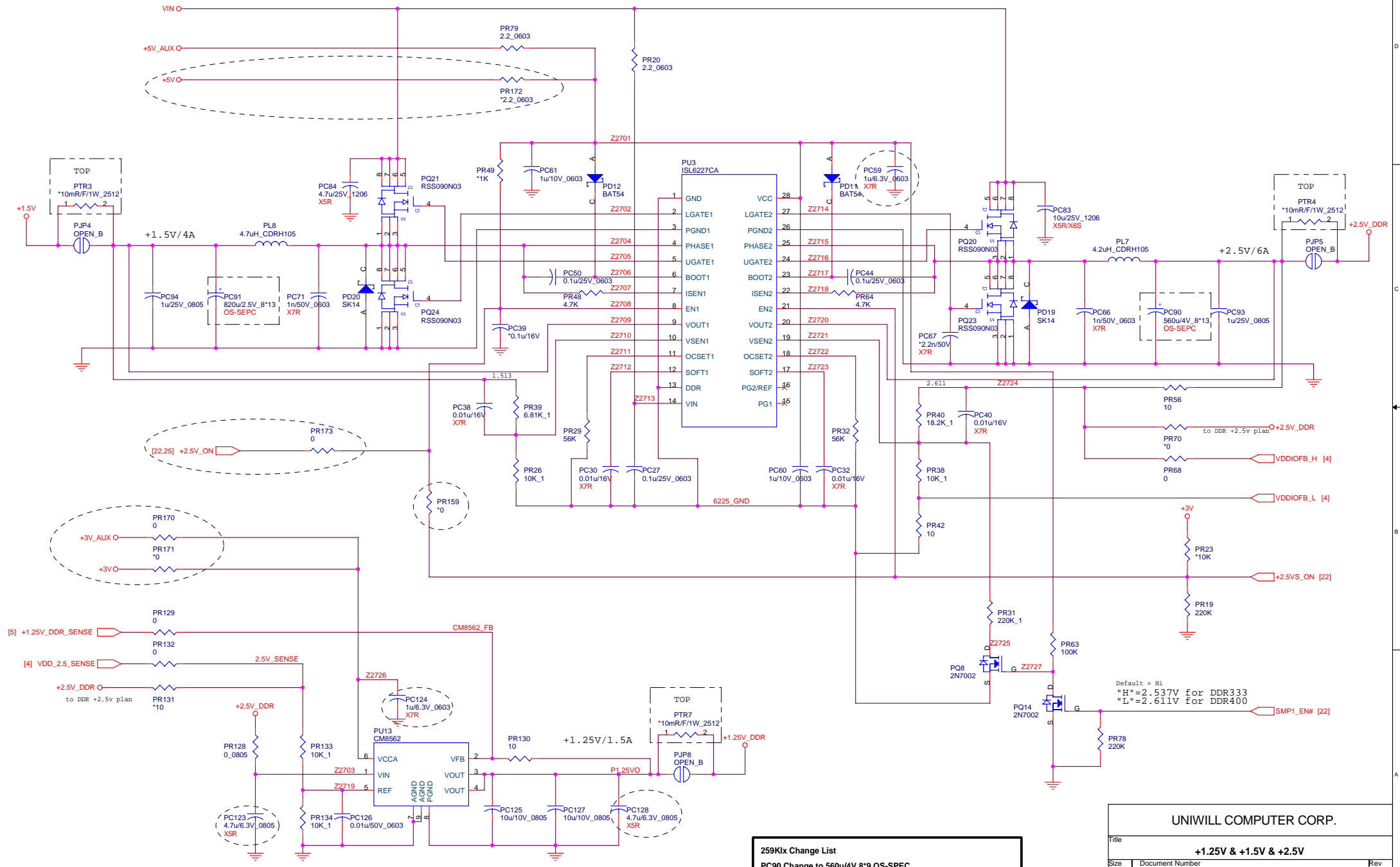


UNIWILL COMPUTER CORP.

Title: **CPUCORE_ISL6559**

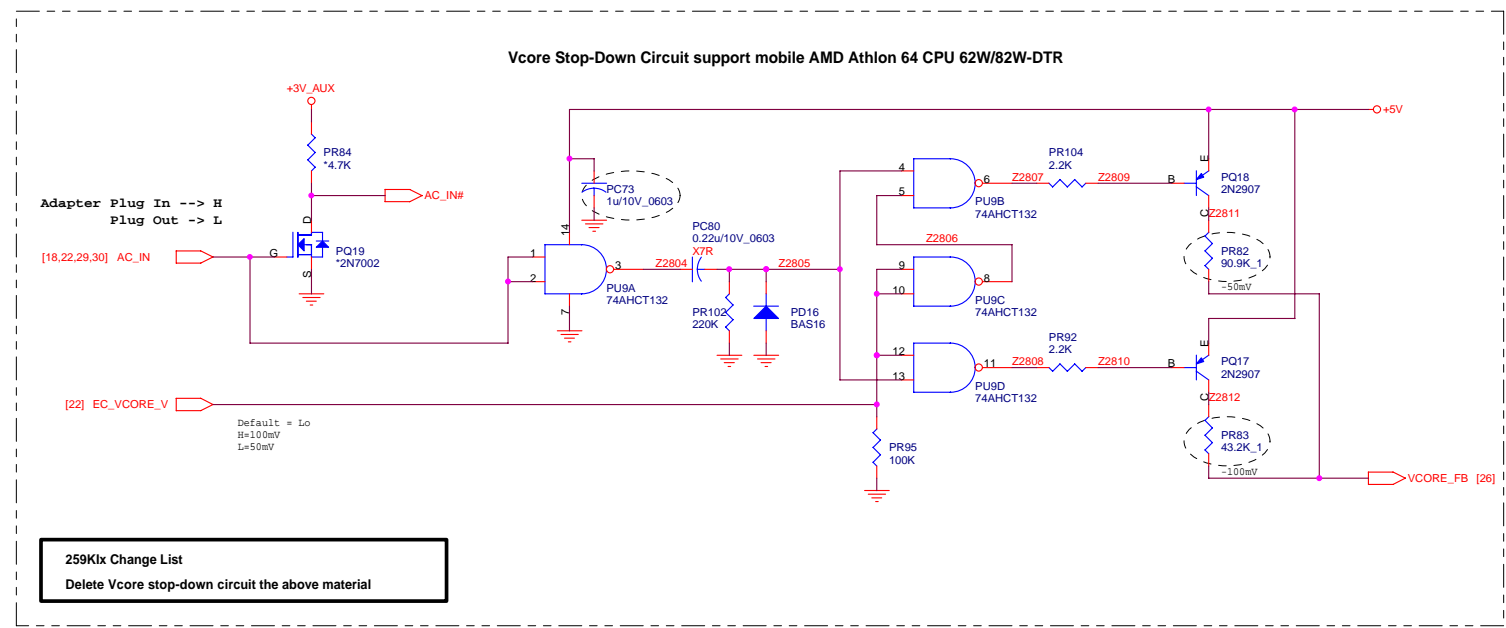
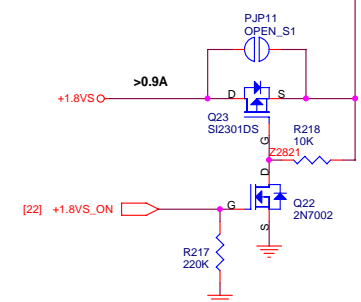
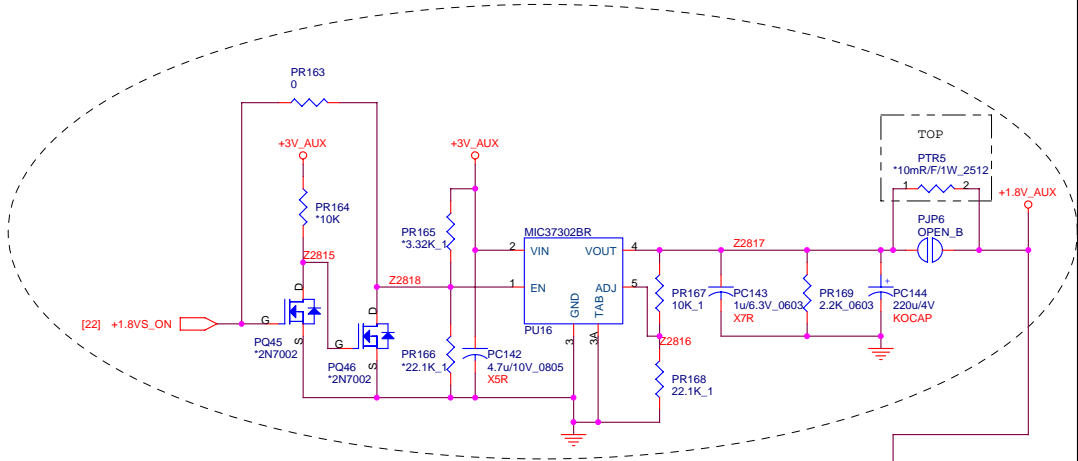
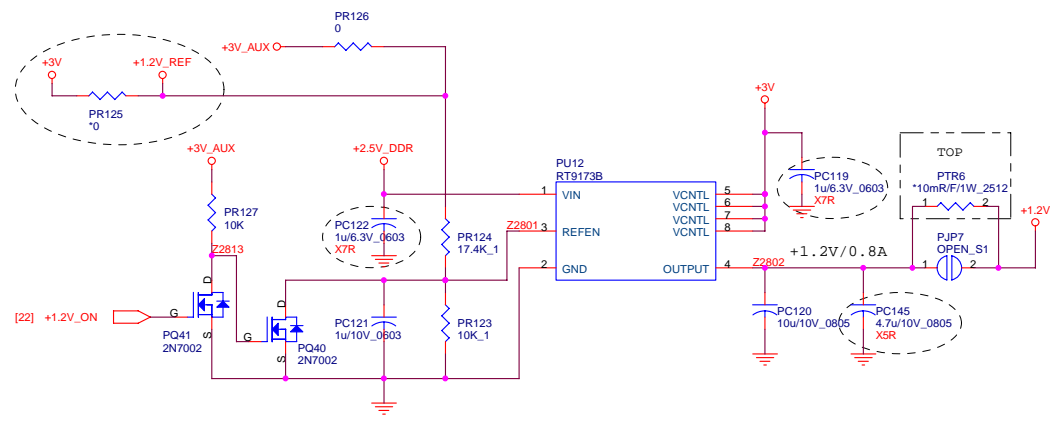
Size: Document Number: **255 / 259KIX** Rev: 01

Date: Tuesday, September 07, 2004 Sheet: 26 of 34



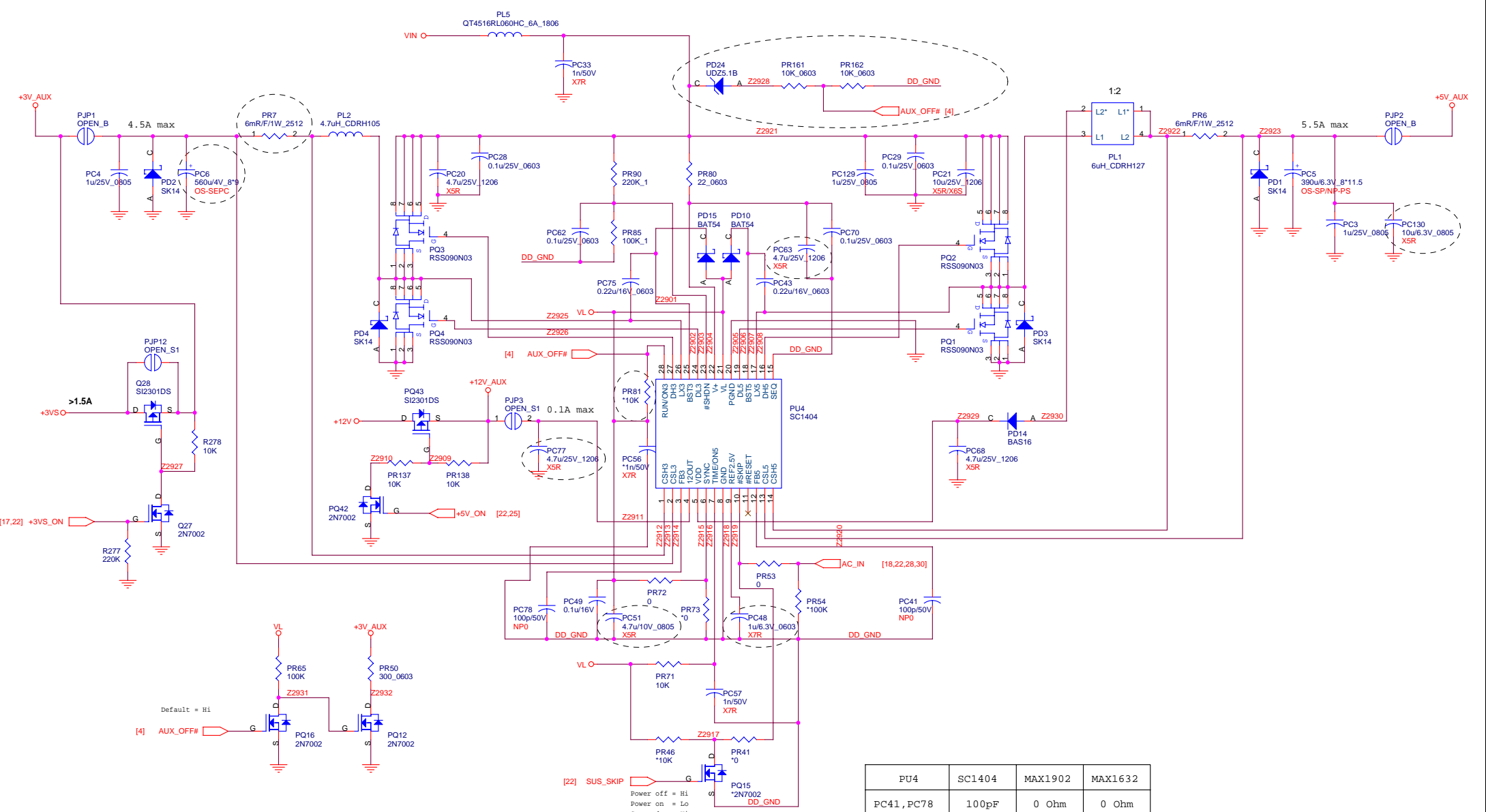
259Kix Change List
 PC90 Change to 560u/4V 8*9 OS-SPEC
 PC91 Change to 820u/2.5V 8*9 OS-SPEC / NP-PSC

UNIWILL COMPUTER CORP.		
Title: +1.25V & +1.5V & +2.5V		
Size	Document Number	Rev
	2756	01
255 / 259KIX		
Date:	Tuesday, September 07, 2004	Sheet 27 of 34



259Klx Change List
Delete Vcore stop-down circuit the above material

Unwill International Corp.		
Title +1.2V/+1.8V & VCORE STOP-DOWN		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 28 of 34



THERMAL SOLUTION 1:
 USE CPUHOT# TO IMPLEMENT H/W THROTTLING AND SHUT DOWN.
 EC READ TEMPRATURE AND CONTROL FAN.

THERMAL SOLUTION 2:
 USE 1617 TO READ TEMPRATURE AND EC CONTROL FAN, THROTTLING AND SHUT DOWN.
 CPU SHUT DOWN PIN IS FOR H/W PROTECT

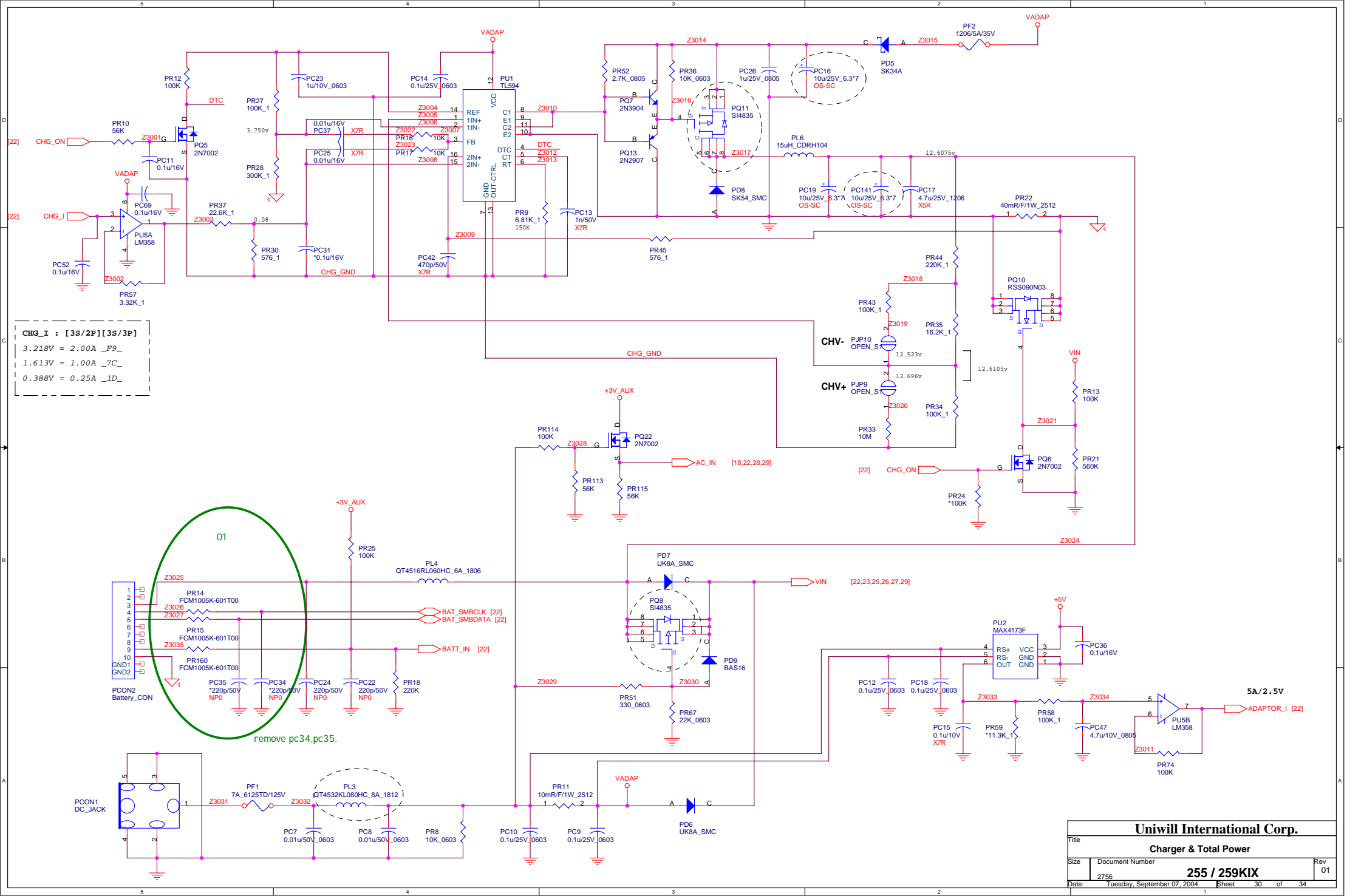
[2] SUS_SKIP
 Power off = Hi
 Power on = Lo
 Suspend = Hi

	PU4	SC1404	MAX1902	MAX1632
PC41, PC78		100pF	0 Ohm	0 Ohm
PR71 ON5	10K		N.C	N.C
PR6, PR7	6mR, 6mR	10mR, 10mR	10mR, 10mR	
PR72 SYNC HI	0 Ohm _{300K}	N.C _{500K}	0 Ohm _{300K}	
PR73 SYNC LC	N.C _{200K}	0 Ohm _{300K}	N.C _{200K}	

UNIWILL COMPUTER CORP.

Title: **DC-DC (3.3V/5V)**

Size: 2756	Document Number: 255 / 259KIX	Rev: 01
Date: Tuesday, September 07, 2004	Sheet: 29	of 34



CHG_I : [3S/2P][3S/3P]

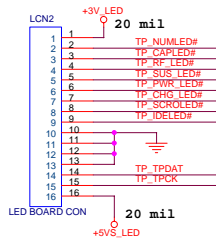
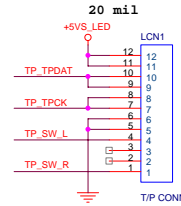
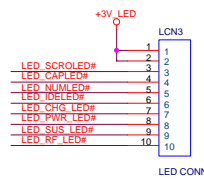
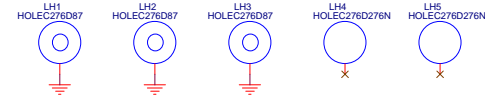
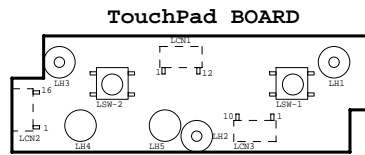
3.218V	=	2.00A	_F9_
1.613V	=	1.00A	_7C_
0.388V	=	0.25A	_1D_

remove pc34,pc35.

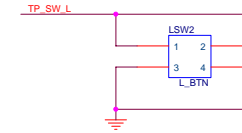
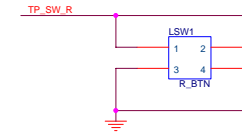
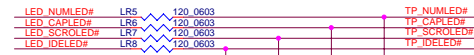
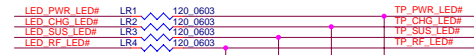
Uniwill International Corp.		
Charger & Total Power		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 30 of 34

255/259XX1 TP/B VER: B
 P/N: 35-UG5010-00B
 MADE IN TAIWAN

LAYER : 6
 LAYER1 : TOP
 LAYER2 : GND
 LAYER3 : IN1
 LAYER4 : IN2
 LAYER5 : VCC
 LAYER6 : BOT



6 mil



255/259XX1 LAN/B VER: C

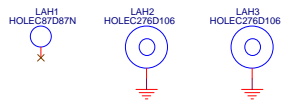
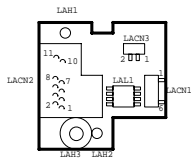
P/N: 35-UG5030-00C

MADE IN TAIWAN

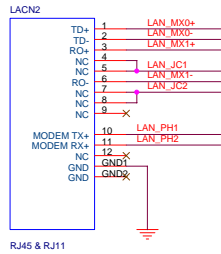
LAYER : 6

- LAYER1 : TOP
- LAYER2 : GND
- LAYER3 : IN1
- LAYER4 : IN2
- LAYER5 : VCC
- LAYER6 : BOT

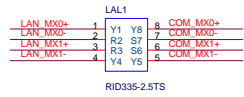
LAN/MODEM BOARD



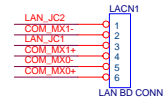
8 mil



RJ45 & RJ11

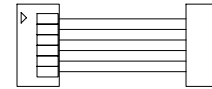


RID335-2.5TS

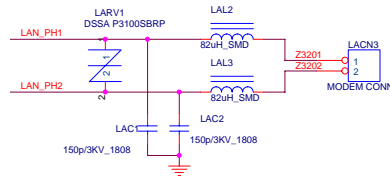


LAN BD CONN

CABLE



MODEM ESD



UNIWILL COMPUTER CORP.

Title		
LAN&MODEM CONN		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 32 of 34

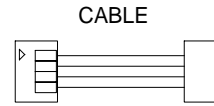
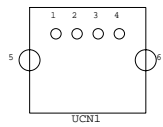
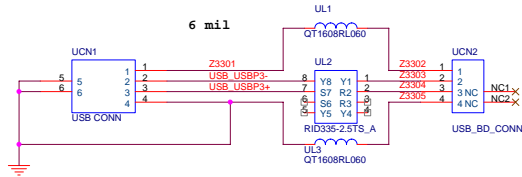
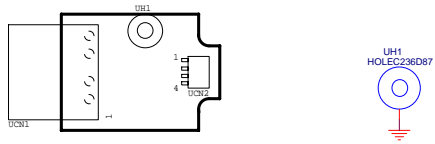
255/259XX1 USB/B VER: A

P/N: 35-UG5020-00A

MADE IN TAIWAN

LAYER : 6

LAYER1 : TOP
LAYER2 : GND
LAYER3 : IN1
LAYER4 : IN2
LAYER5 : VCC
LAYER6 : BOT



UNIWILL COMPUTER CORP.		
Title USB CONN		
Size	Document Number 255 / 259KIX	Rev 01
Date	Tuesday, September 07, 2004	Sheet 33 of 34

From Version: B change to Version: 01

- 93 / 07 / 12**
- 01.Page23: CN20 pin 10 from GND change to DOCK_DET.
- 02.Page18: Add R512, R513, C779, R511, C778.
- 93 / 07 / 15**
- 03.Page04: U6 pin AF24, AE24 connect test point TP174, TP173.
- 93 / 07 / 21**
- 04.Page17: U29,U30 pin5 change to +5v_aux,DEL R493 10k ohm,R495 add 100k ohm.
- 05.Page17:C557 change to 150u/6.3v_SMT_SE-4A.
- 93 / 07 / 22**
- 06.Page23: DEL R258, R269 .
- 07.Page23:S5,L83 SWAP,L83 change to +5v_aux
- 08.Page30:remove pc34,pc35.
- 09.Page7:remove R240.
- 93 / 07 / 23**
- 10.Page16:L42,L46 change to +3VS.
- 11.Page17:R480,R481 ADD 5.6K.
- 12.Page16:DEL R154, OC1~OC5# change to +3VS.
- 93 / 07 / 28**
- 13.Page10:R79 change to +1.8V.
- 14.PAGE11:R118,R119,R121 change to +3V.
- 15.Page11:R65 change to +3V.
- 16.Page11:R59 change to GND.
- 93 / 07 / 29**
- 17.Page15:R167 change to +2.5V.
- 93 / 07 / 30**
- 18.Page19:remove Y2.
- 19.Page21: DEL R503 .
- 20.Page21:ADD R451,C710,C711,Y1.
- 21.Page30:ADD PR160.
- 22.Page30:PR14,PR15 change to BEAD600.
- 93 / 08 / 04**
- 23.Page18:ADD R517, R519, R520, R521.
- 24.Page22:remove R387,R391,R397.
- 25.Page17:R500 change to 220K.
- 93 / 08 / 06**
- 26.Page22:R342,R344,R345 change to 100k ohm.
- 27.Page18:Add R517,R519,R520,R521.
- 28.Page28:Del PC114,PC115,PC116,PC117,PC118,PD24,PR120,PR121,PR122,PU11.
Add PC142,PC143,PC144,PC145,PR163,PR165,PR167,PR168,PU16.
Change PC73,PC119,PC122,PR82,PR83.
- 29.Page29:Remove PR81.
Add PD24,PR161,PR162.
Change PC6,PC48,PC51,PC63,PC77,PC130,PR7.
- 30.Page30:Remove PC34,PC35.
Add PR160.
Change PC16,PC141,PQ9,PQ11.
- 31.Page31:Change PC59,PC123,PC124,PC128.
- 32.Page32:Remove PR152.
Add PD25,PC147,PC148,PC149,PR158,PR175,PSW1.
Change PR148,PR151,PR153.
- 33.Page09:Add C780, C781, C782, C783, C784, C785, C786, C787, C788, C789, C790, C791, C792, C793, C794.
- 93 / 08 / 19**
- 34.Page25:C104 from 1nF / 50V 0603 change to 100nF / 50V 0603.
- 35.Page23:L5, L6, L7 from FCM1608C-600T06 change to QT1608RL030_3A.
- 36.Page27:Del PR159 0 ohm
Add PR173 0 ohm

UNIWILL COMPUTER CORP.		
Title Change Notes B to 01		
Size	Document Number	Rev
2756	255 / 259KIX	01
Date:	Tuesday, September 07, 2004	Sheet 34 of 34