

Model Name :A88PC-M3S

Marketing name :A880G+

VER:6.1

CPU :

AM3,Including AthlonII / Phenom II/ Sempron

System Chipset :

AMD 880G

AMD SB710

On Board Chip :

Clock Gen. -- RealTek RTM880N-793

Azalia Codec -- RealTek ALC662

GigaBit Lan -- RealTek RTL8111DL

PWM Controller -- L6717

Super I/O -- IT8721FBX

SPI Flash 8Mb

Main Memory :

2 Channel DDR 3 * 2 (Max 4GB)

Expansion Slot :

PCI Express x16 Slot * 1

PCI Slot * 2

Heatsink :

NB: NBHS-A88G

SB: SBHS-A78G

I/O Pannel :

47-RIOBRACKET-84

PCB SIZE :

200.01 X 243.84mm

4-layers-2116

HW Engineer:

Date:

HW Leader:

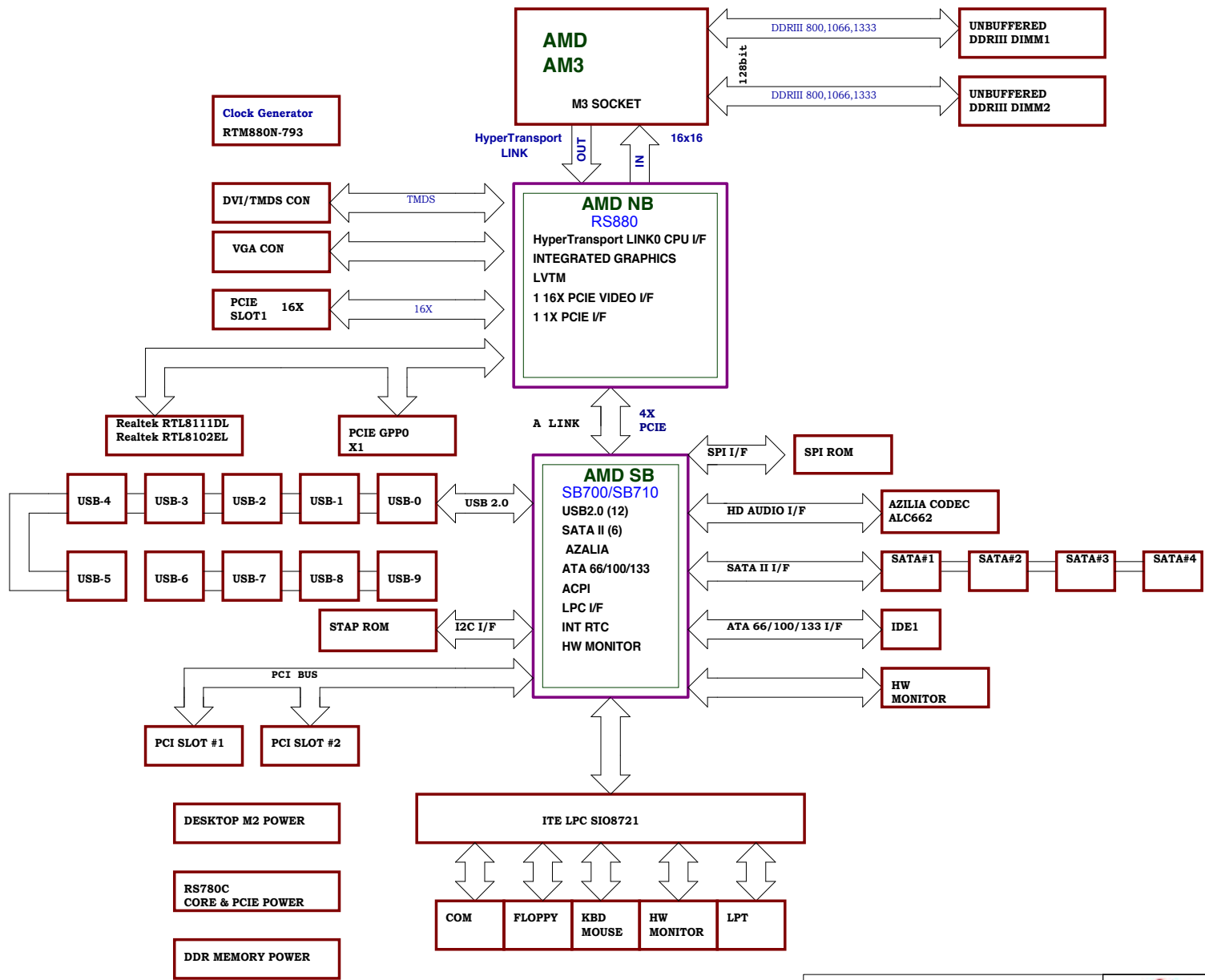
Date:

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41	NB/SB CORE POWER
42	REL8111DL/8102EL
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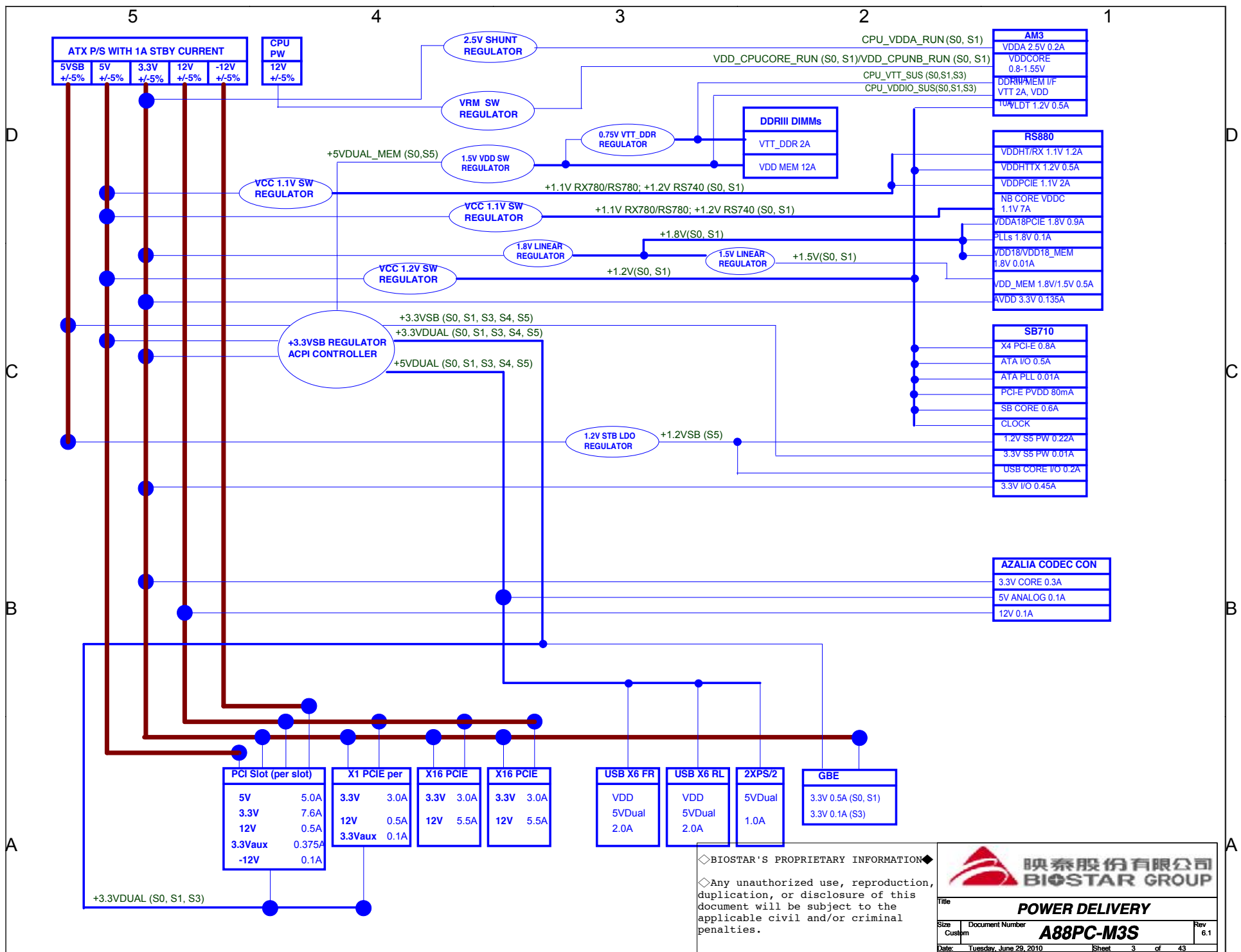
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Title **BLOCK DIAGRAM**

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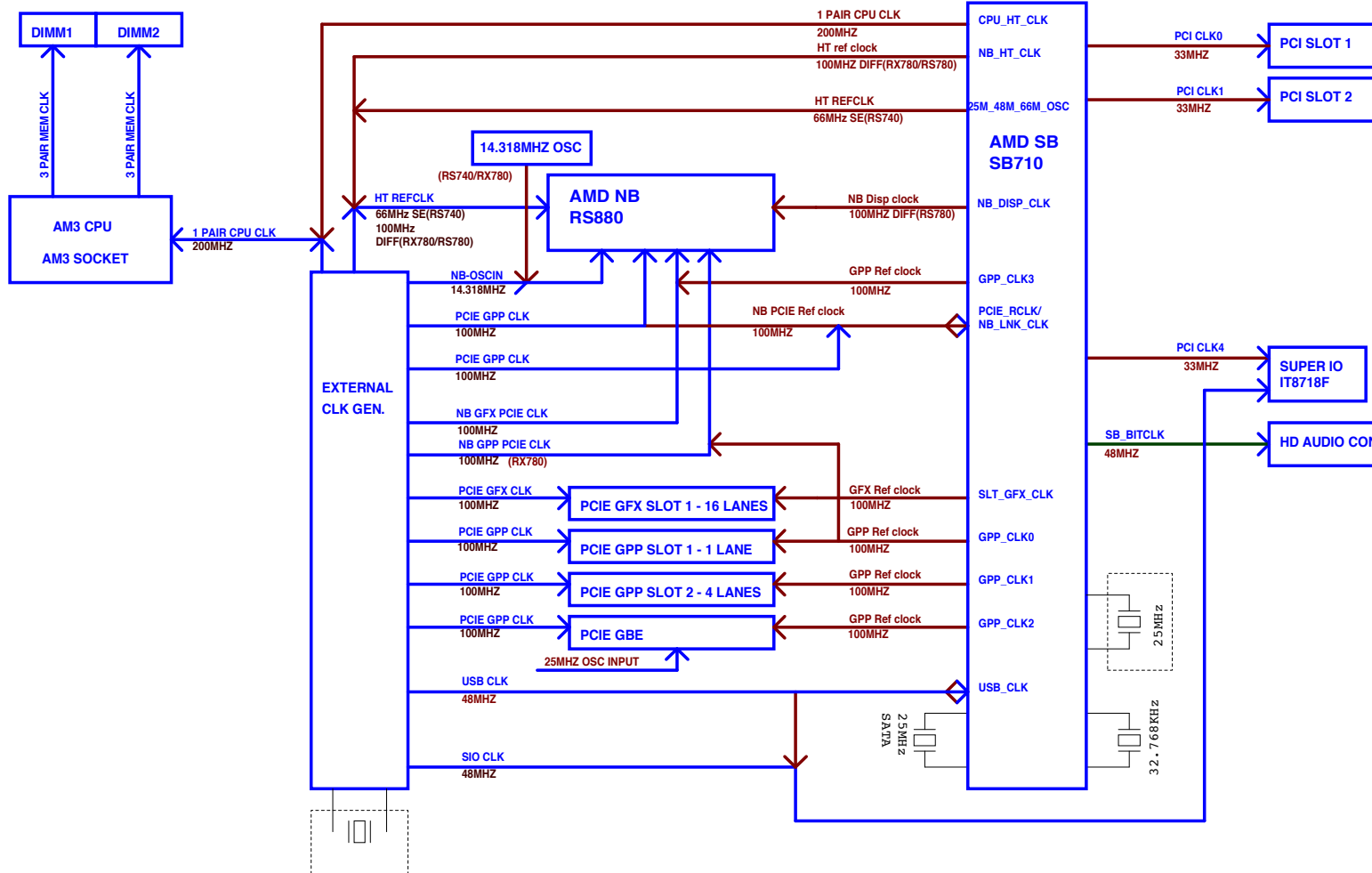
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Date	Rev	Description
2010/05/14	6.0	R329 change to 121 1% 0402 R332 change to 226 1% 0402
2010/05/14	6.0	Q68 E connect to SB IMC_CRST_L
2010/05/14	6.0	R228 NI
2010/05/14	6.0	CS4+ pull high to +V_CPU
2010/05/14	6.0	CPU SOCKET /SATA CONNECTOR VALUE CHANGE
2010/05/18	6.0	2010/05/18 ADD CT25
2010/05/18	6.0	2010/05/18 ADD CT34
2010/05/19	6.0	PC2 PC51 PC7
2010/05/19	6.0	PC3 PC10 PC39
2010/05/19	6.0	ADD C52,C53 FOR +1.5V_SUS
2010/05/19	6.0	ADD cpu socket bottom CAP
2010/05/19	6.0	ADD R161
	6.0	2010/05/19 UPDATE PWM_EN CIRCUIT
	6.0	CAP COLAY
	6.0	R386 change to 1k ohm
		2010/05/21 ADD AR2 /C307/LC24 FOR EMI
		2010/05/21 LCT1/LCT3/CT30/CT3/CT31 NI
		2010/05/21 PC9/PC11/PC42 change to 4.7UF 16V Y5V 0805
		PC8 change to 1000P

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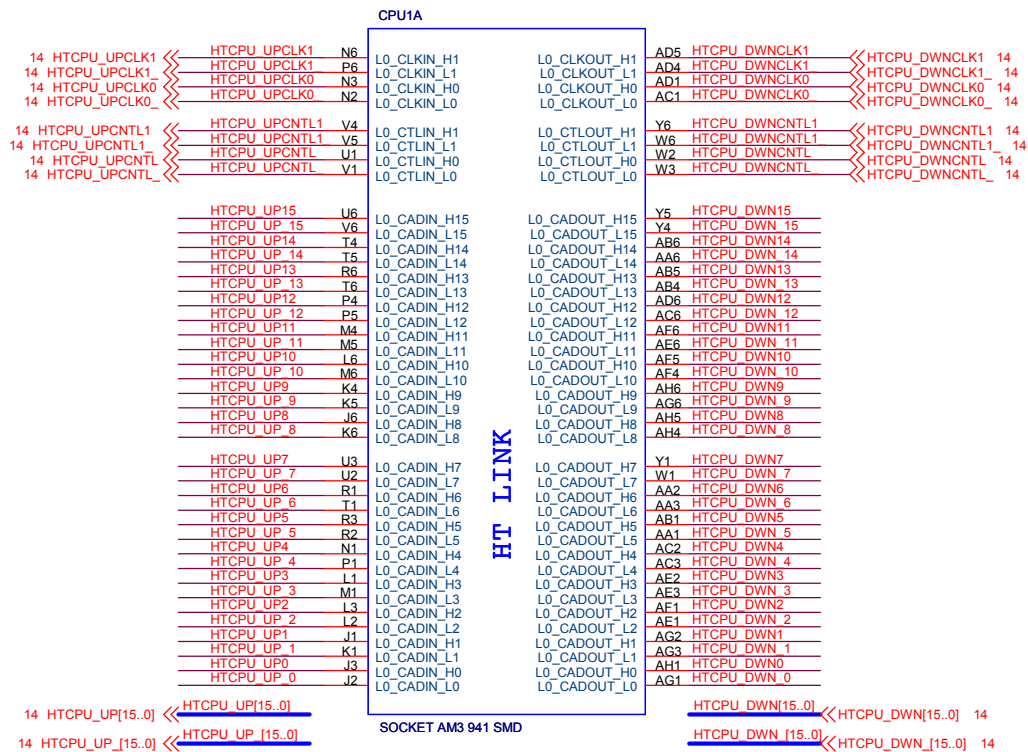
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HyperTransport



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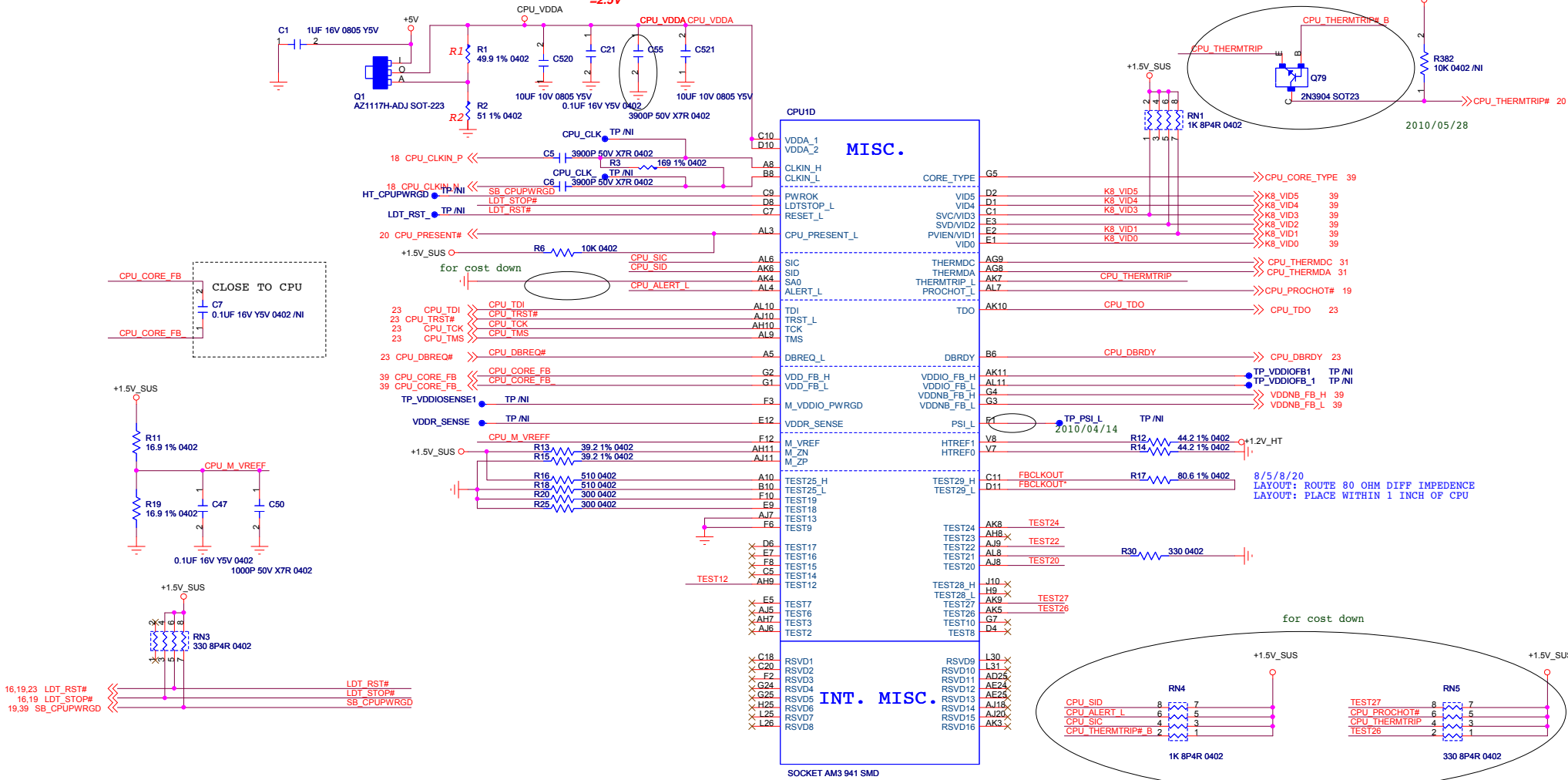
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$$V_{out} = V_{ref} (1.25V) \times (1 + R2/R1) \approx 2.5V$$



Title			
AM3 CPU CTRL/STRAPS			
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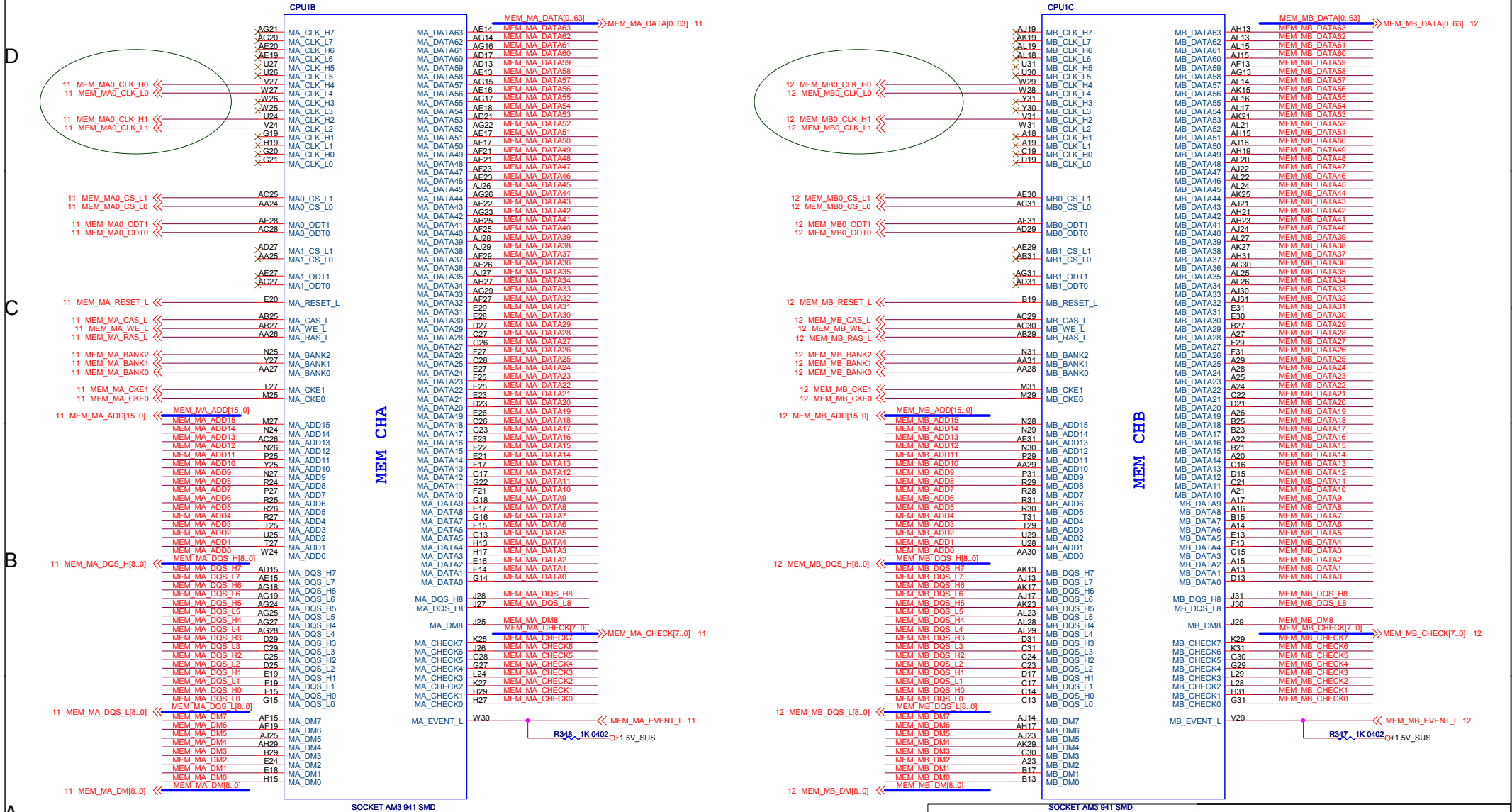
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AM3 CPU MEMORY CHA/B

A88PC-M3S

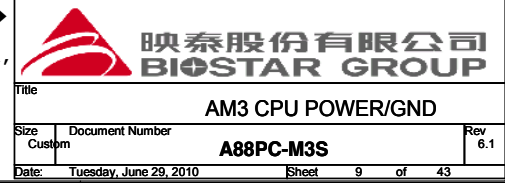
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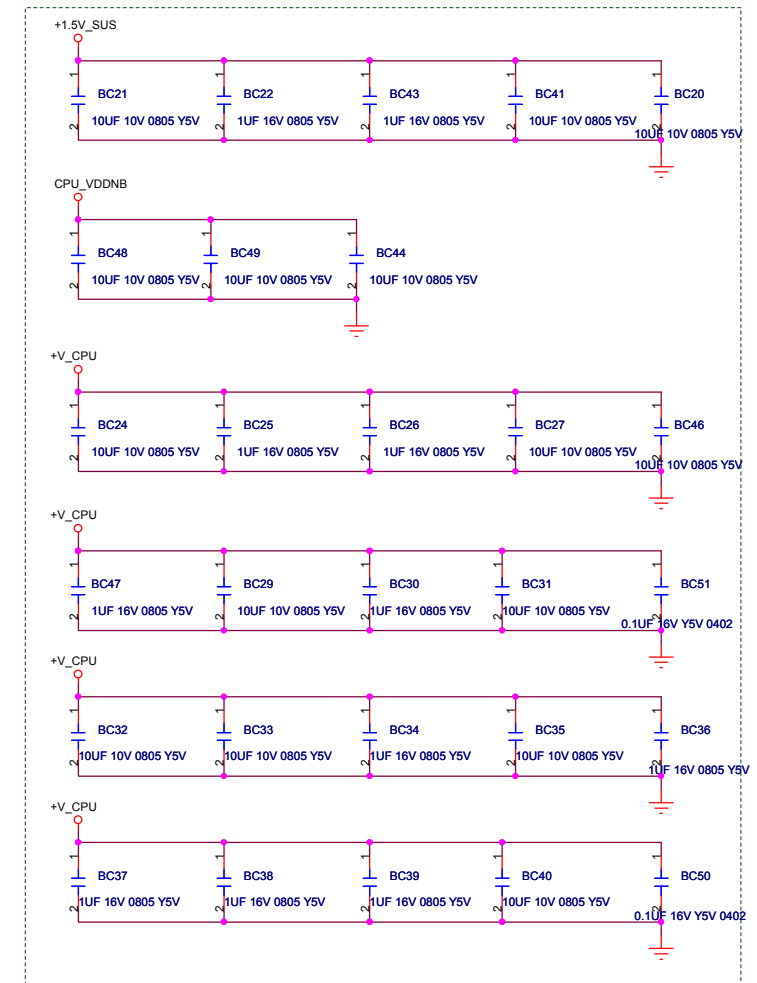
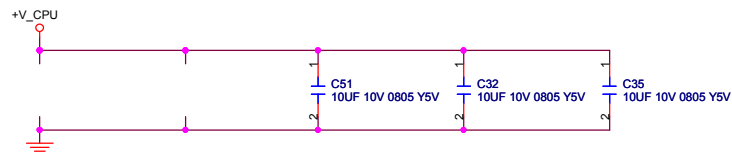
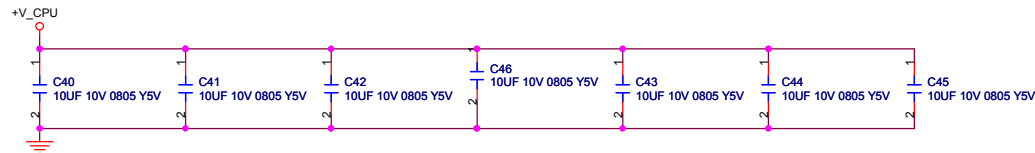
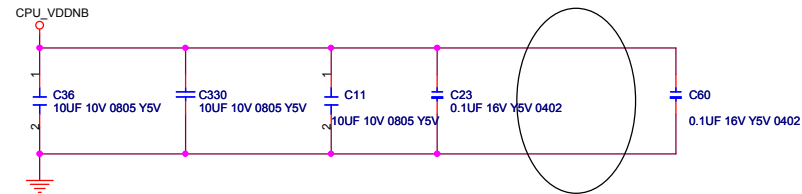
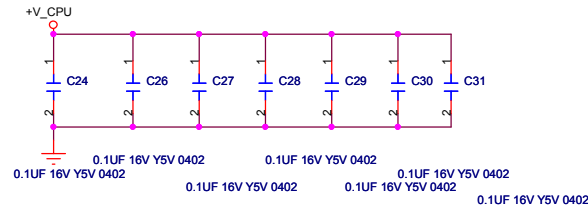
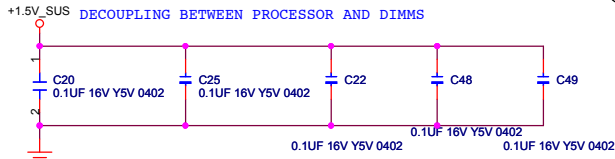
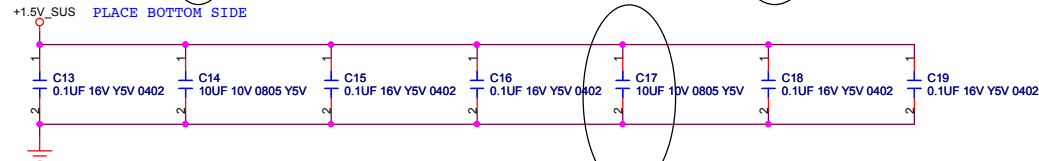
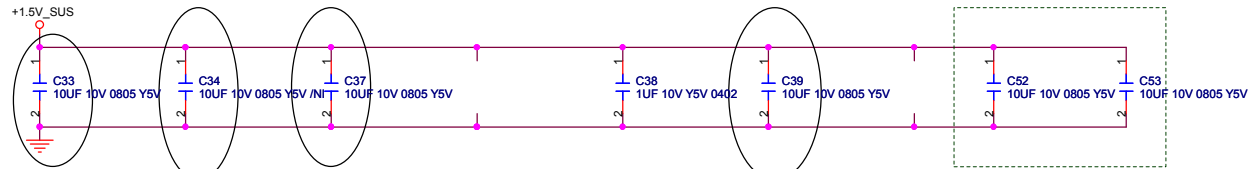
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2010/05/19
ADD C52,C53

Place cpu socket bottom

2010/05/19 ADD



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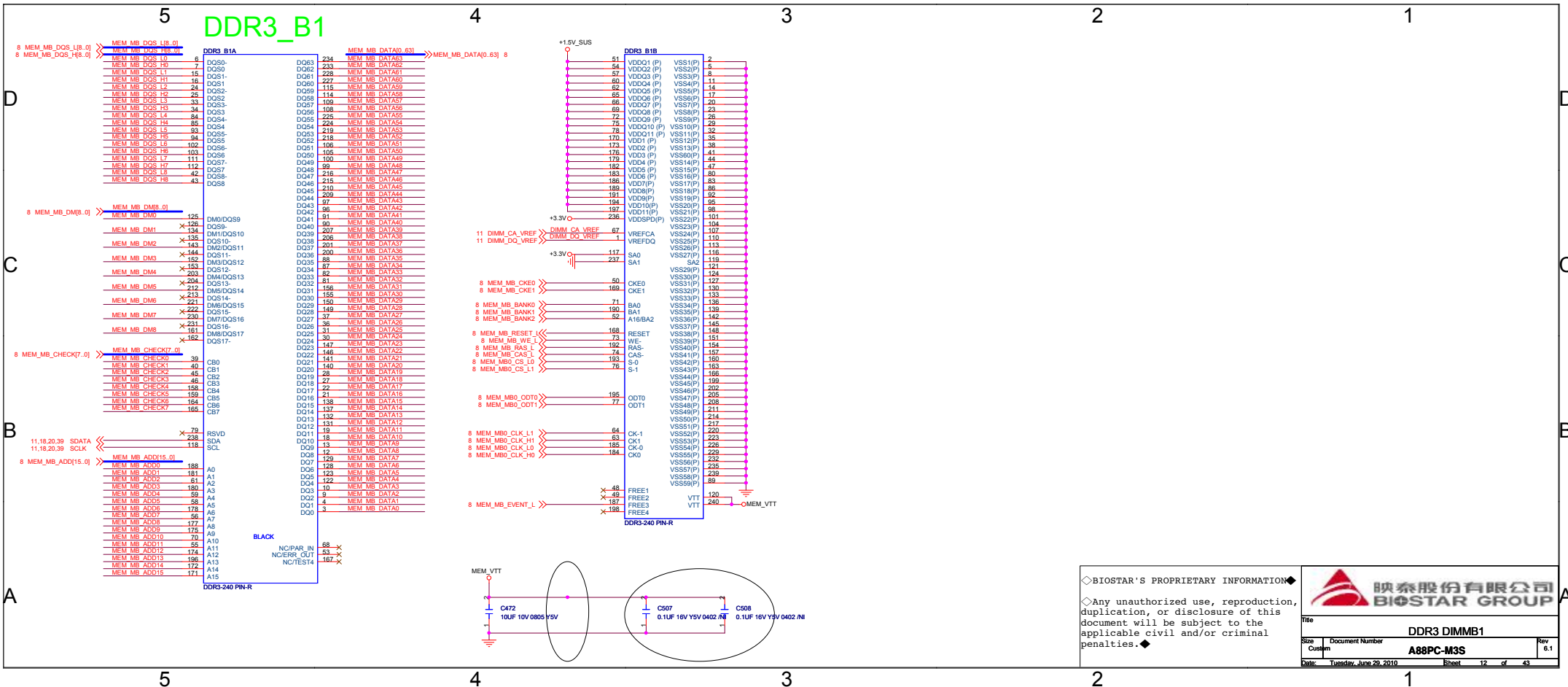
DDR3 A1A



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DDR3_B1



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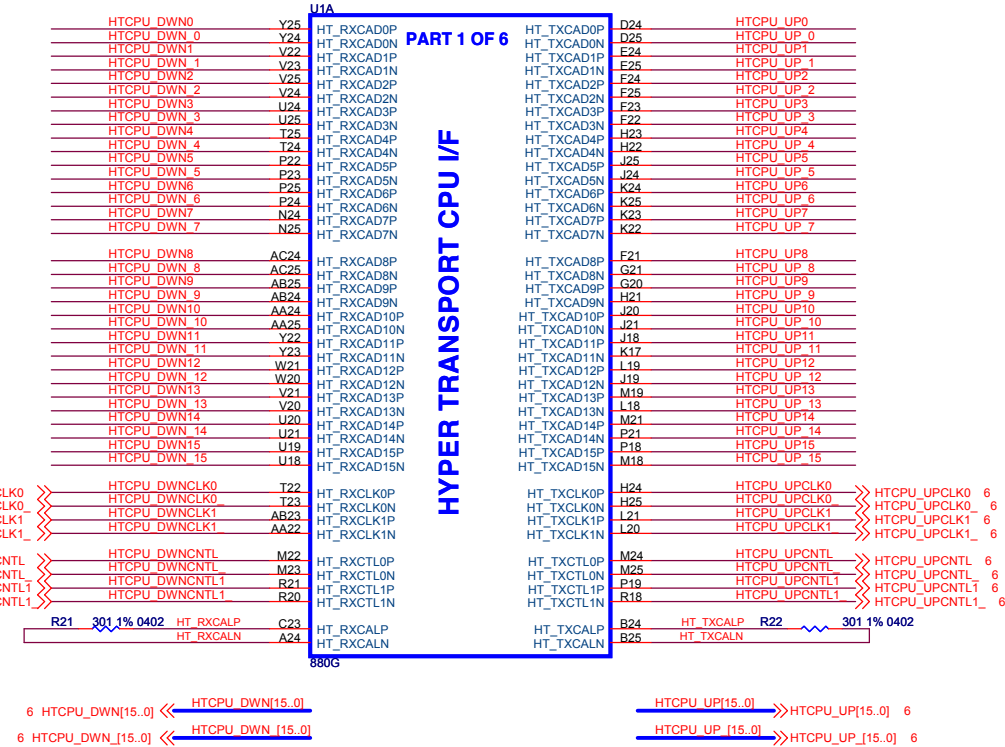
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RX780/RS740/RS780 difference table (HT LINK)


SIGNALS	RX740	RX780	RS780
HT_RXCALP	49.9R (GND)	1.21K	301R
HT_RXCALN	49.9R (VDDHT)		
HT_TXCALP	100R	1.21K	301R
HT_TXCALN			

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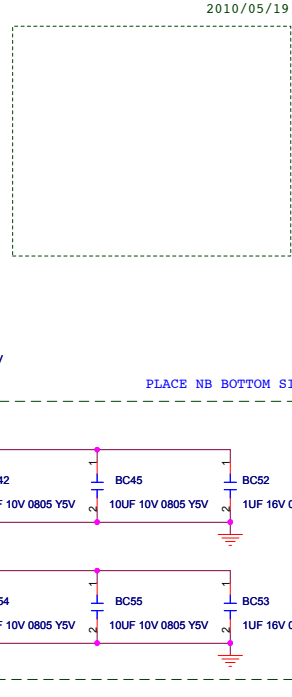
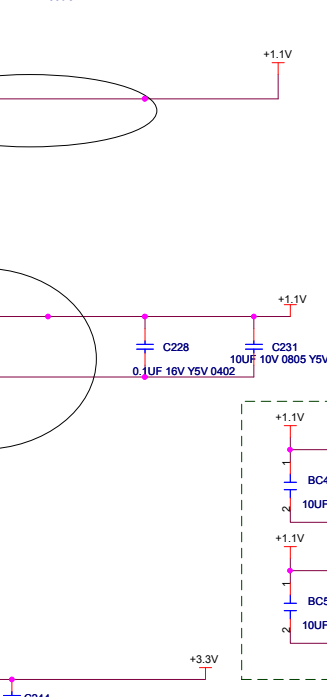
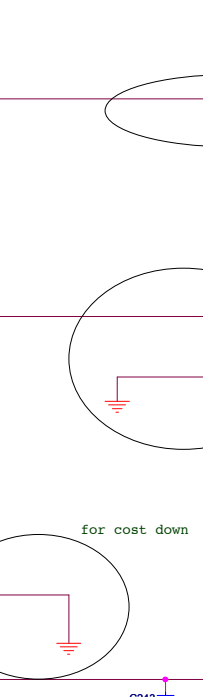
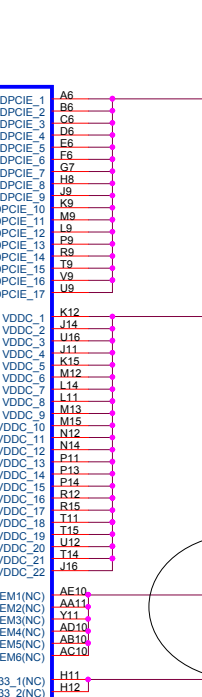
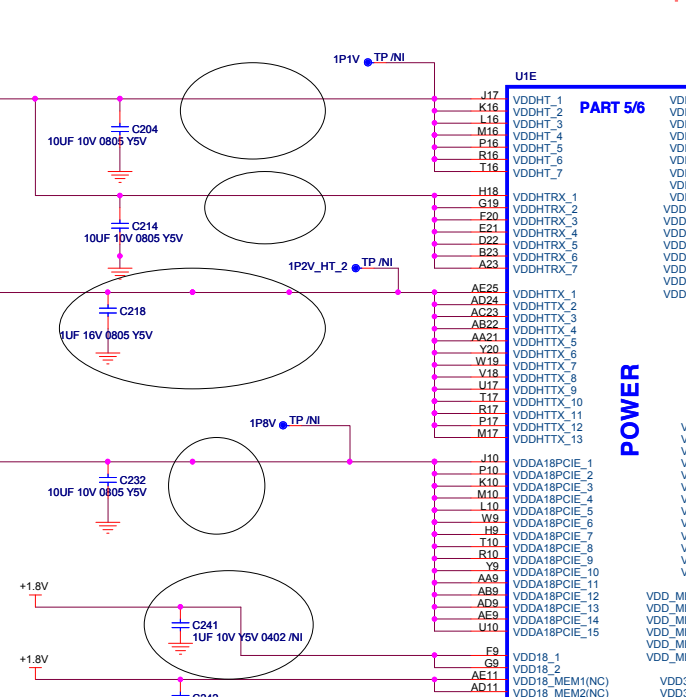
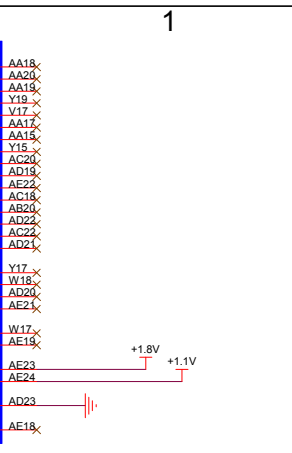
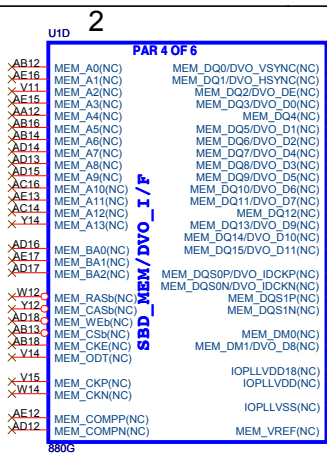
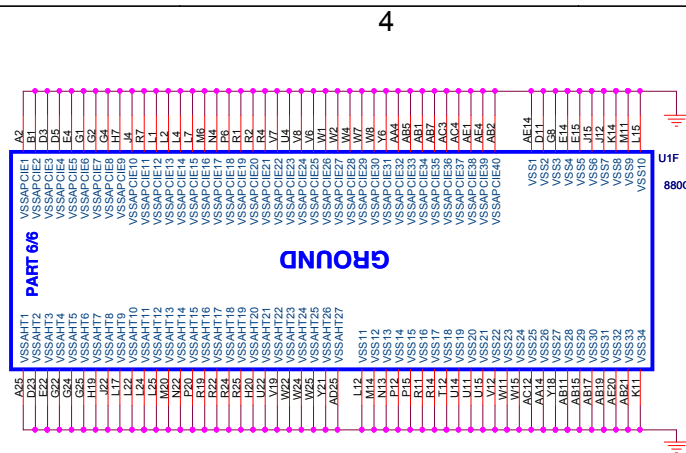


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RS880 SYSTEM			
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RS740/RX780/RS780 POWER DIFFERENCE TABLE

PIN NAME	RS740	RX780	RS780	PIN NAME	RS740	RX780	RS780
VDDHT	NC	+1.1V	+1.1V	IOPLLVD	+1.2V	NC	+1.1V
VDDHTRX	NC	+1.1V	+1.1V	AVDD	+3.3V	NC	+3.3V
VDDHTTX	+1.2V	+1.2V	+1.2V	AVDDI	+1.8V	NC	+1.8V
VDDA18PCIE	NC	+1.8V	+1.8V	AVDDQ	+1.8V	NC	+1.8V
VDD18	+1.8V	+1.8V	+1.8V	PLLVD	+1.2V	NC	+1.1V
VDD18_MEM	NC	NC	+1.8V	PLLVD18	+1.8V	NC	+1.8V
VDDPCIE	+1.2V	+1.1V	+1.1V	VDDA18PCIEPLL	+1.2V	+1.8V	+1.8V
VDDC	+1.2V	+1.1V	+1.1V	VDDA18HTPLL	+1.8V	+1.8V	+1.8V
VDD_MEM	+1.8V/1.5V	NC	+1.8V/1.5V	VDDLT18	+1.8V	NC	+1.8V
VDD33	+3.3V	NC	+3.3V	VDDLT18	+1.8V	NC	+1.8V
IOPLLVD18	+1.8V	NC	+1.8V	VDDLT33	+3.3V	NC	NC

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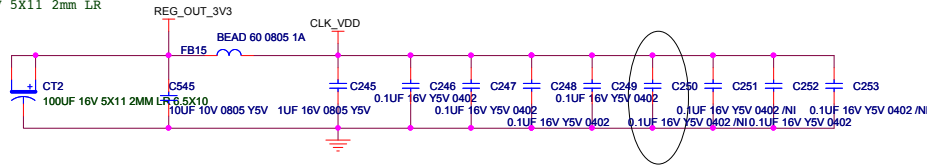
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Title: **RS880 PWOER&SBD MEM**

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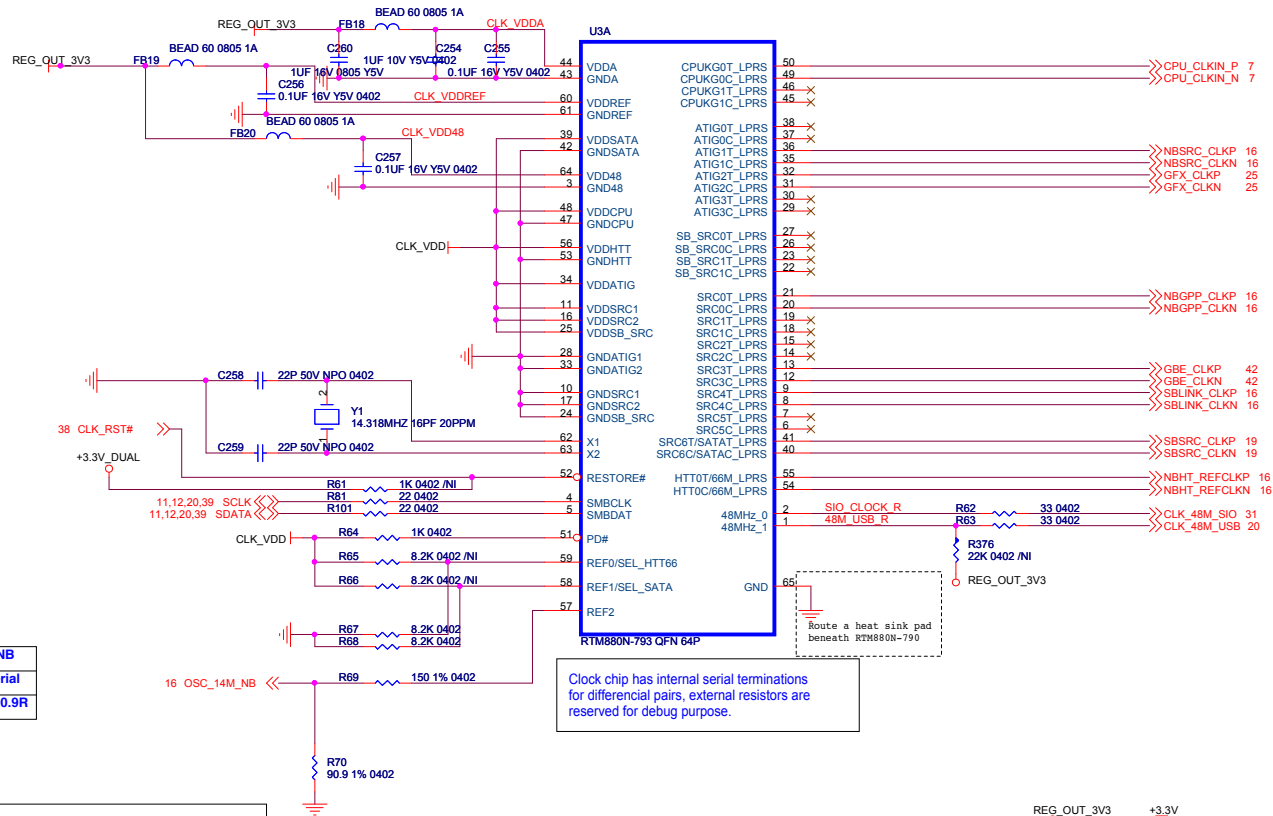
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BOM VALUE
100UF 16V 5X11 2mm LR



NB CLOCK TABLE

NB CLOCKS	RS740	RS780
HT_REFCLKP	66MHz(Single End)	100MHz(Differential)
HT_REFCLKN	NC	
REFCLK_P	14MHz(Single End) 3.3V	14MHz(Single End) 3.3V
REFCLK_N	NC	
GFX_REFCLK	100MHz(Differential)	100MHz(Differential) IN/OUT
GPP_REFCLK	NC	NC or 100MHz(Diff) OUT
GPPSB_REFCLK	100MHz(Differential)	100MHz(Differential)



	OSC_14M_NB
RS740	3.3V 33R serial
RS780	1.1V 158R/90.9R

SEL_HTT66	1	66MHz 3.3V single ended HTT clock
	0*	100MHz differential HTT clock
SEL_SATA	1	100MHz non-spreading differential SATA clock
	0*	100MHz differential spreading SRC clock

* default

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Title
CLOCK RTM880N-793

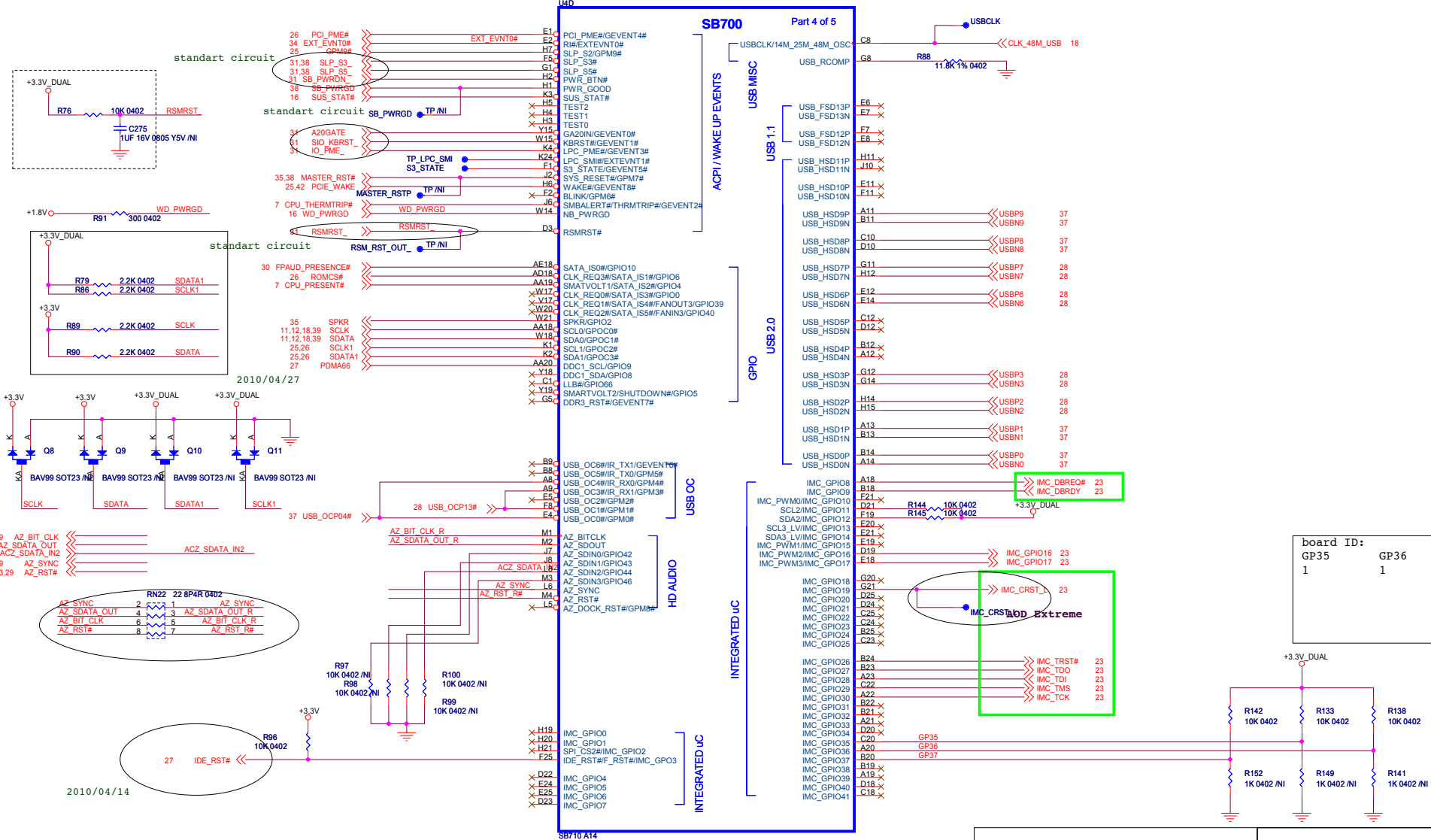
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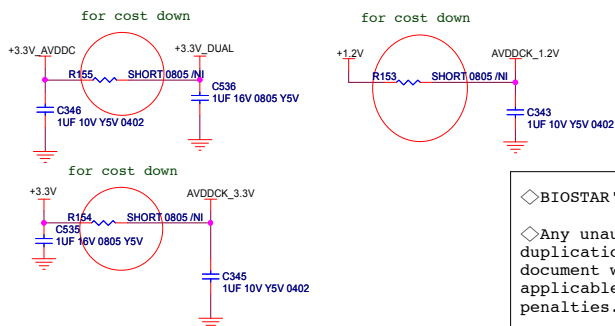
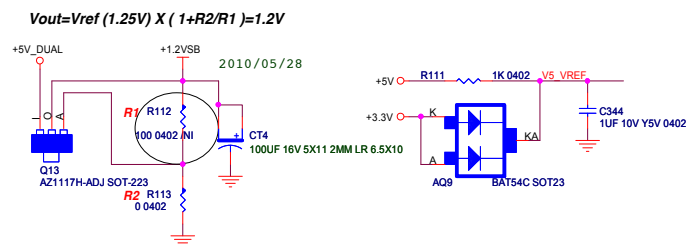
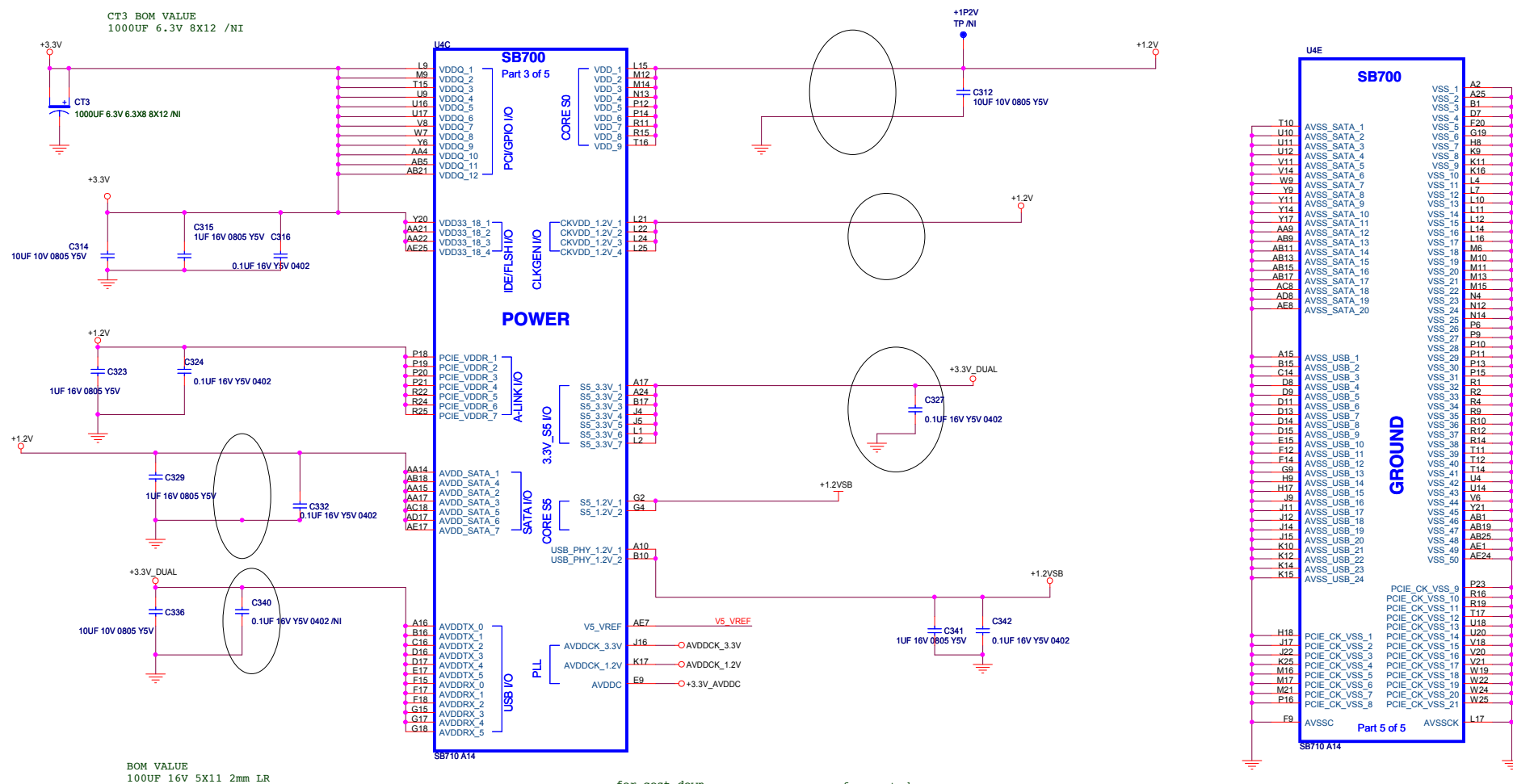


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SB710 ACP/GPIO/USB/AUD			
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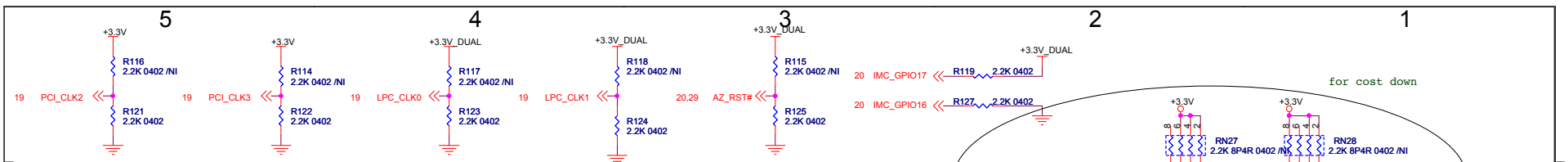
SB710 POWER

A88PC-M3S

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REQUIRED STRAPS

NOTE: SB710 HAS INTERNAL 15K PULL UP RESISTOR FOR RTC_CLK

	PCI_CLK2	PCI_CLK3	PCI_CLK4	PCI_CLK5	LPC_CLK0	LPC_CLK1	AZ_RST#	IMC_GPIO17	IMC_GPIO16
PULL HIGH	WATCHDOG TIMER ON NB_PWRGD ENABLED	USE DEBUG STRAPS	RESERVED	RESERVED	ENABLE PCI MEM BOOT	CLKGEN ENABLED	IMC ENABLED	ROM TYPE: H, L = SPI ROM	DEFAULT
PULL LOW	WATCHDOG TIMER ON NB_PWRGD DISABLED DEFAULT	IGNORE DEBUG STRAPS DEFAULT			DISABLE PCI MEM BOOT DEFAULT	CLKGEN DISABLED DEFAULT	IMC DISABLED DEFAULT		

DEBUG STRAPS

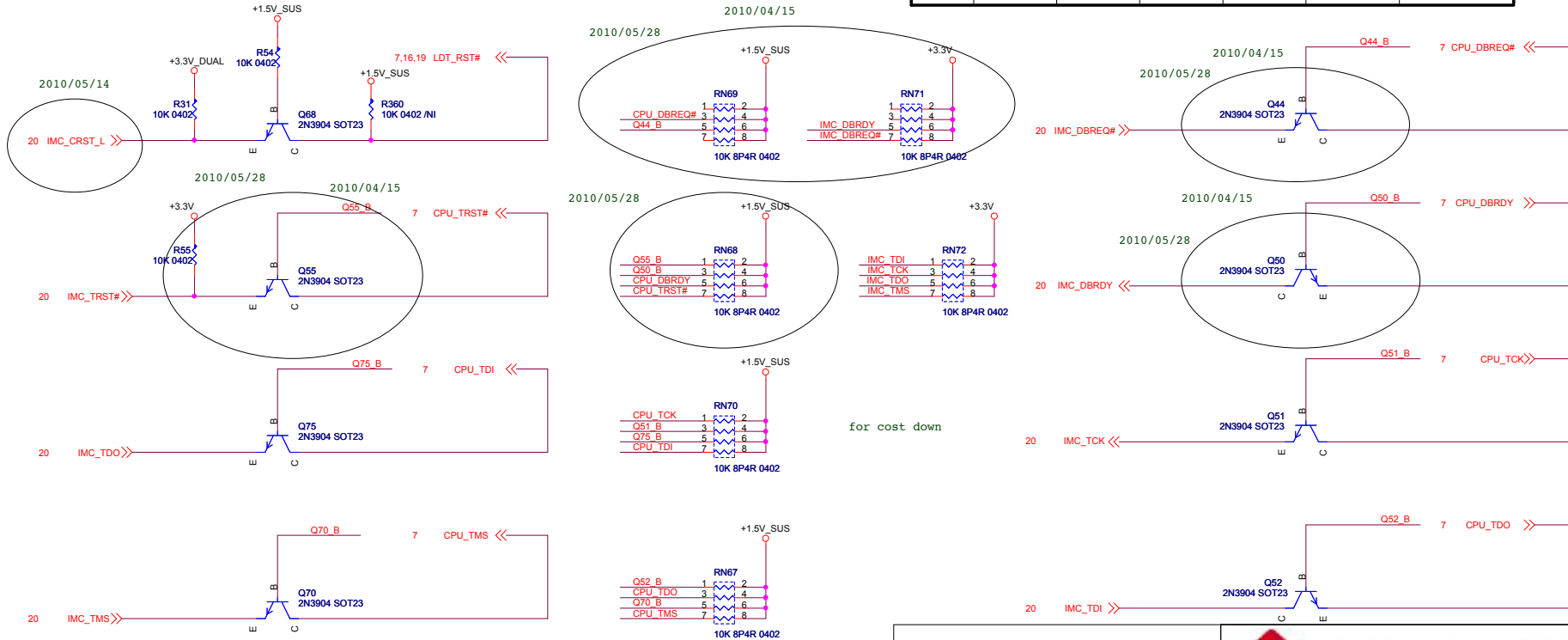
SB710 HAS 15K INTERNAL PU FOR PCI_AD[28:23]

	PCI_AD28	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE LONG RESET DEFAULT	USE PCI PLL DEFAULT	USE ACPI BCLK DEFAULT	USE IDE PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	RESERVED
PULL LOW	USE SHORT RESET	BYPASS PCI PLL	BYPASS ACPI BCLK	BYPASS IDE PLL	USE EEPROM PCIE STRAPS	

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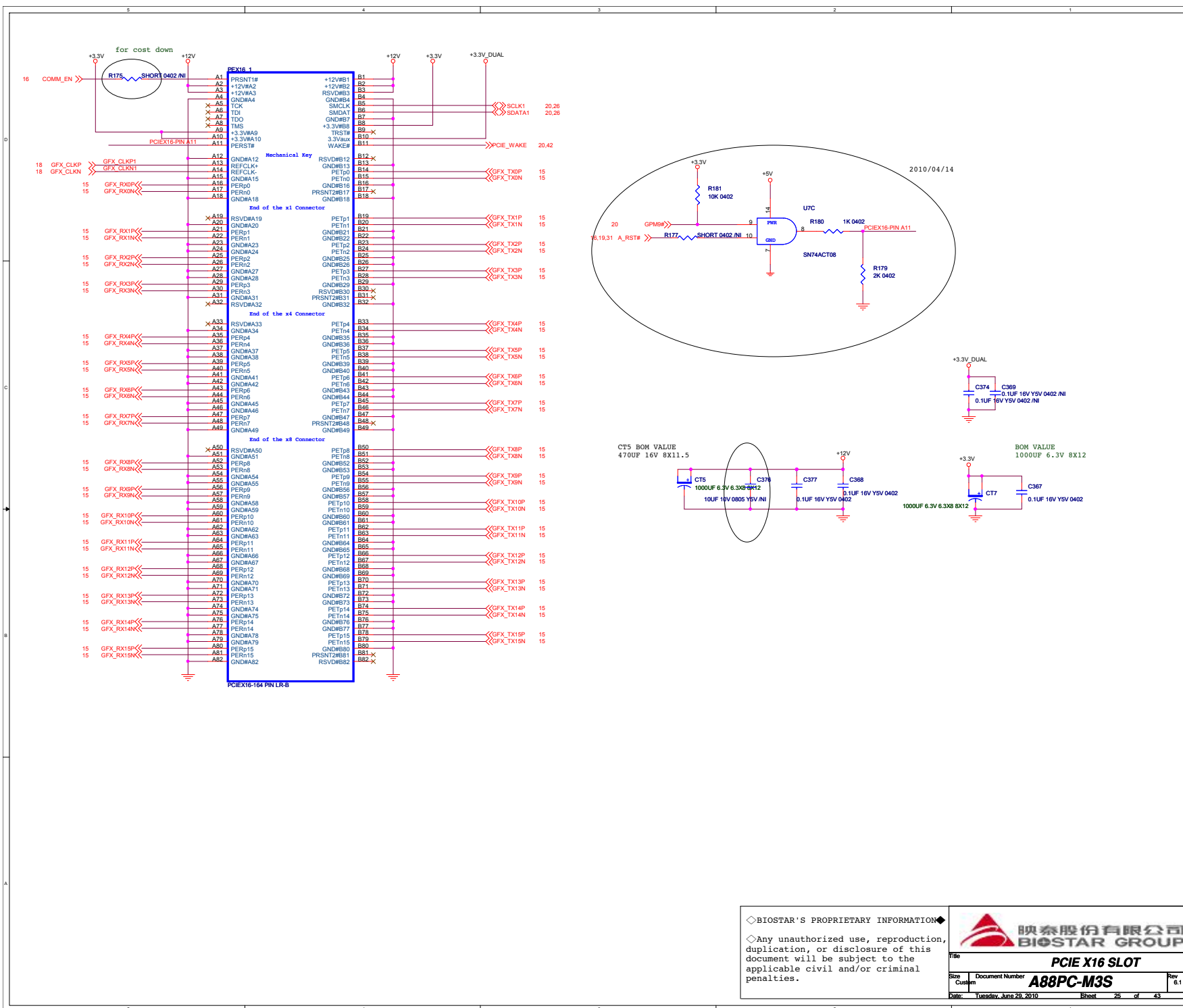
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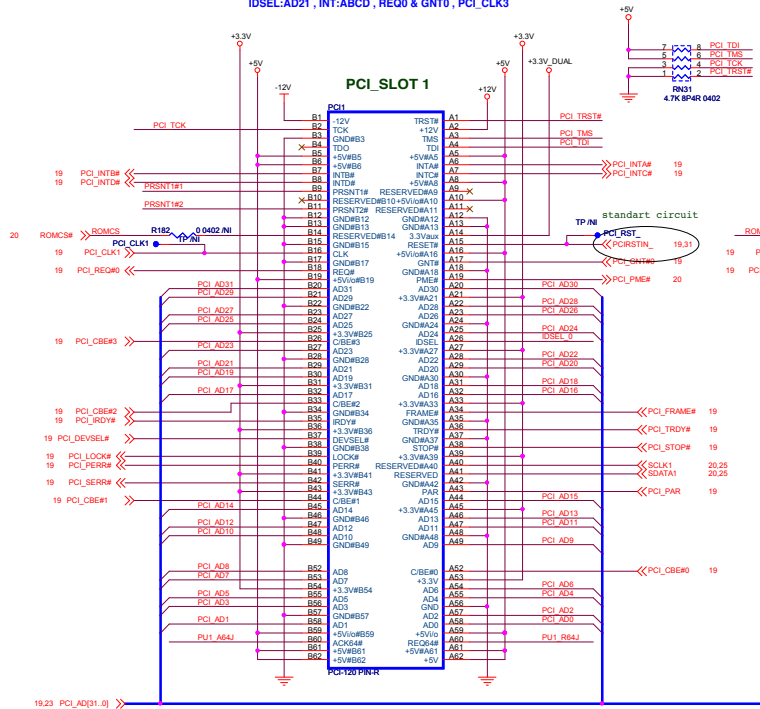


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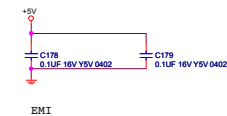
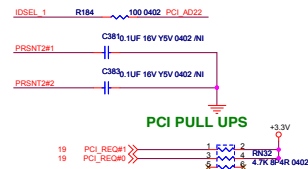
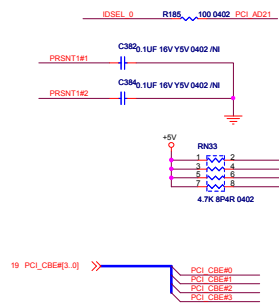
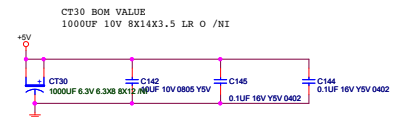
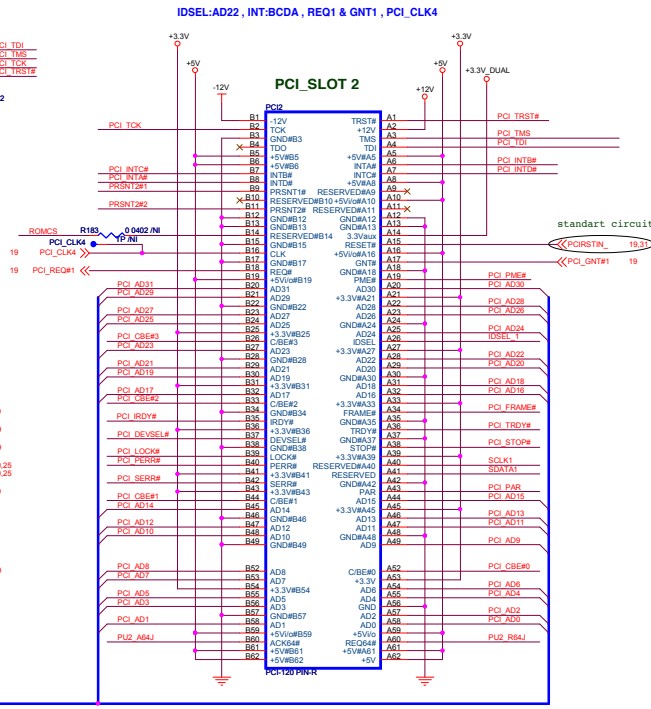
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IDSEL:AD21, INT:ABCD, REQ0 & GNT0, PCI_CLK3



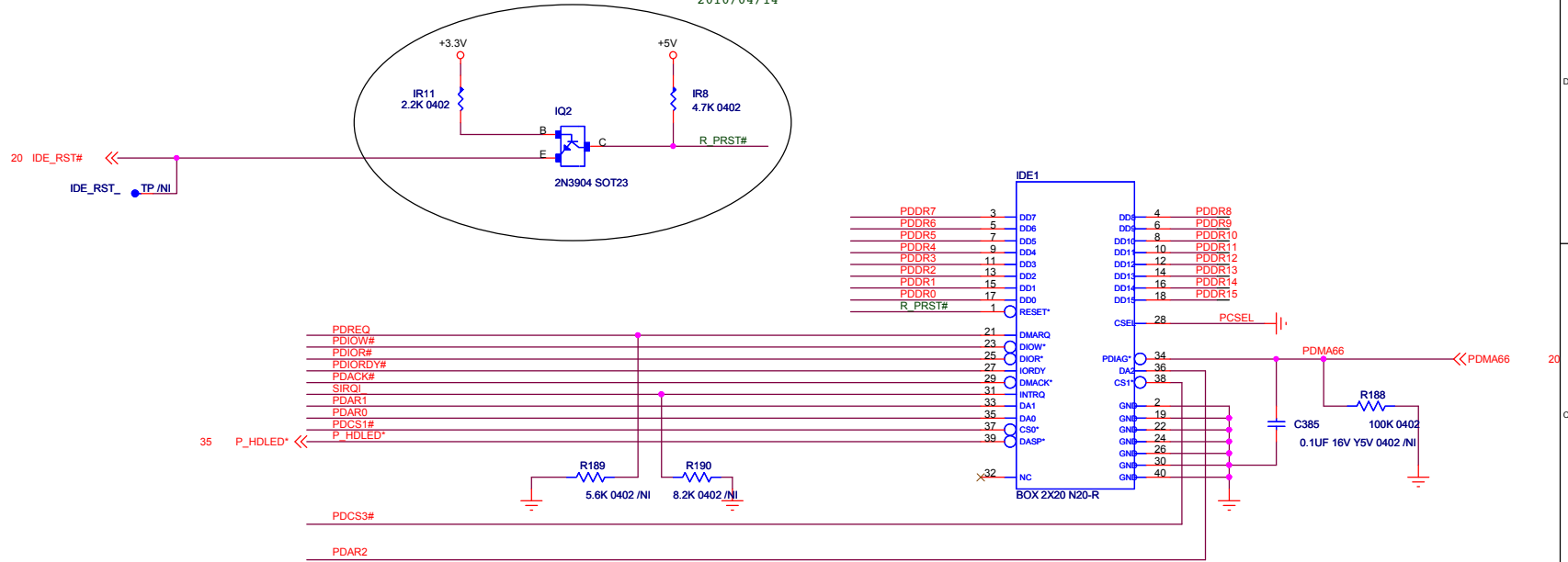
IDSEL:AD22, INT:BCDA, REQ1 & GNT1, PCI_CLK4



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2010/04/14

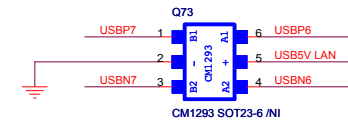
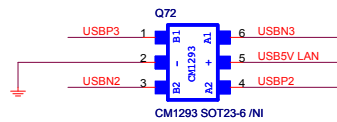


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21	PDREQ_R	>>	PDREQ
21	PDIOW#_R	>>	PDIOW#
21	PDIOR#_R	>>	PDIOR#
		>>	PDIORDY#
		>>	PDACK#
		>>	SIRQI
		>>	PDAR1
		>>	PDAR0
		>>	PDCS1#
		>>	PDCS3#
		>>	P*_HLED*
		>>	PDCS3#
		>>	PDAR2
21	PDA_R[2..0]	>>	PDA_R[2..0]
		>>	PDAR1
		>>	PDIORDY#
		>>	PDACK#
		>>	PDAR0
		>>	SIRQI
		>>	PDAR2
		>>	PDCS1#
		>>	PDCS3#
		>>	PDD_R13
		>>	PDD_R1
		>>	PDD_R14
		>>	PDD_R15
		>>	PDDR13
		>>	PDDR1
		>>	PDDR14
		>>	PDDR15

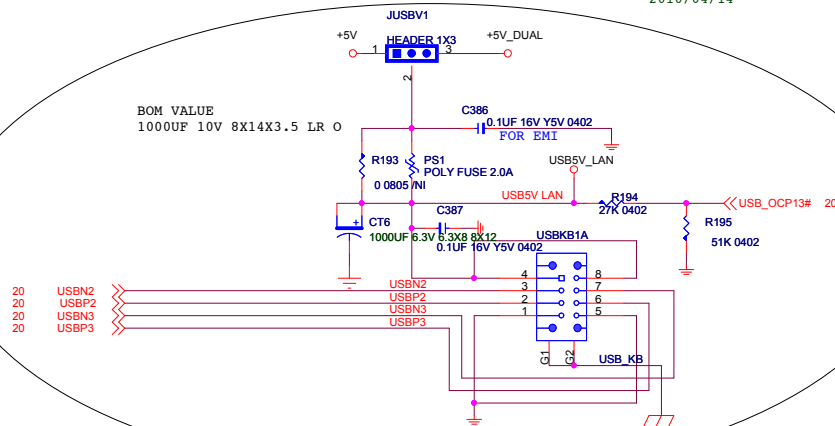
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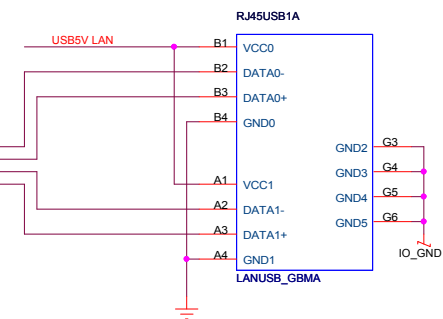
 映泰股份有限公司 BIOSTAR GROUP	
Title IDE ATA 133	
Size Custom	Document Number A88PC-M3S
Date: Tuesday, June 29, 2010	Rev 6.1
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2010/04/14



20 USBN6
20 USBP6
20 USBN7
20 USBP7



for cost down

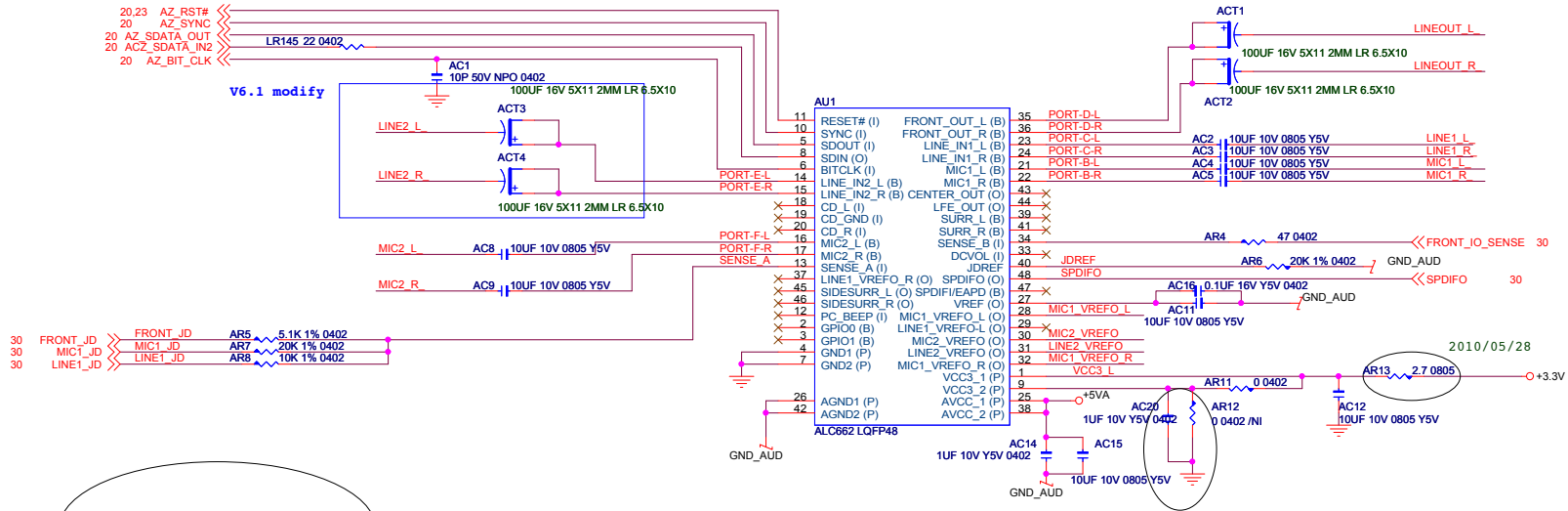


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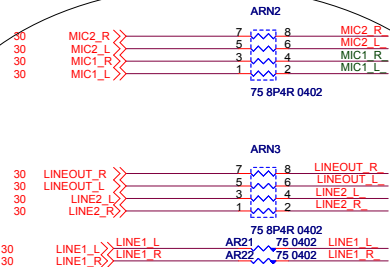
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		映泰股份有限公司 BIOSTAR GROUP	
Title		USB CONN	
Size	Document Number	A88PC-M3S	
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Date:	Tuesday, June 29, 2010	Sheet	28 of 43

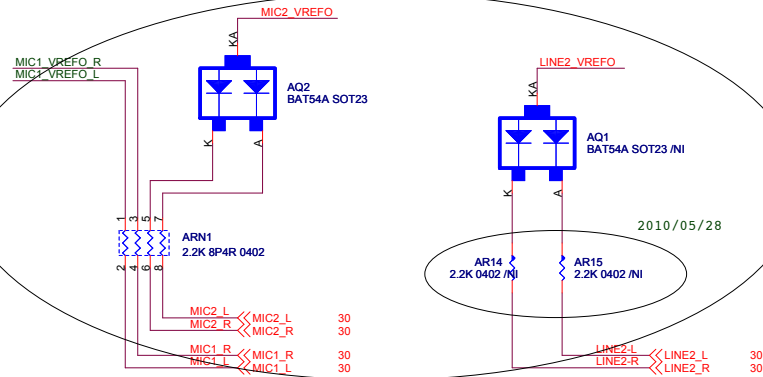
BOM VALUE
100UF 16V 5X11 2mm LR



for cost down

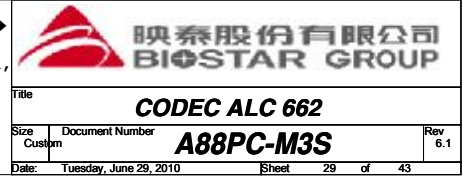


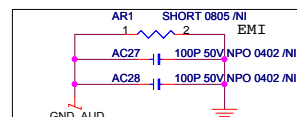
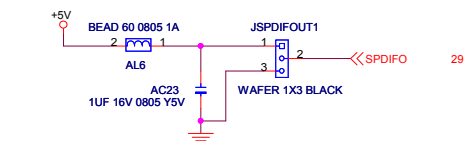
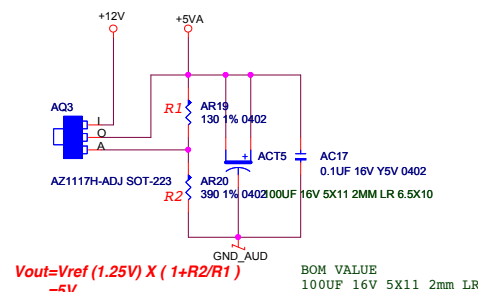
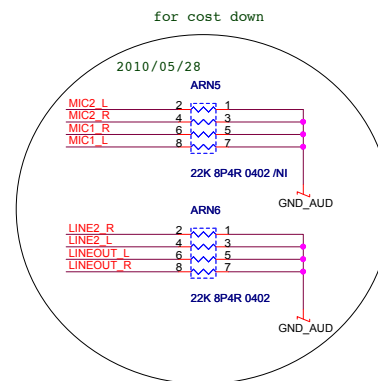
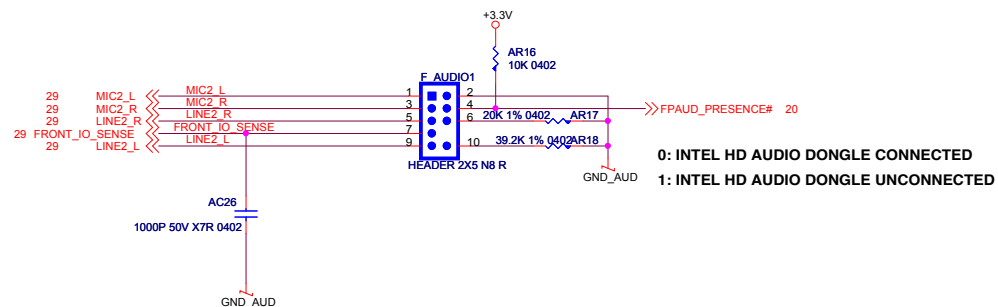
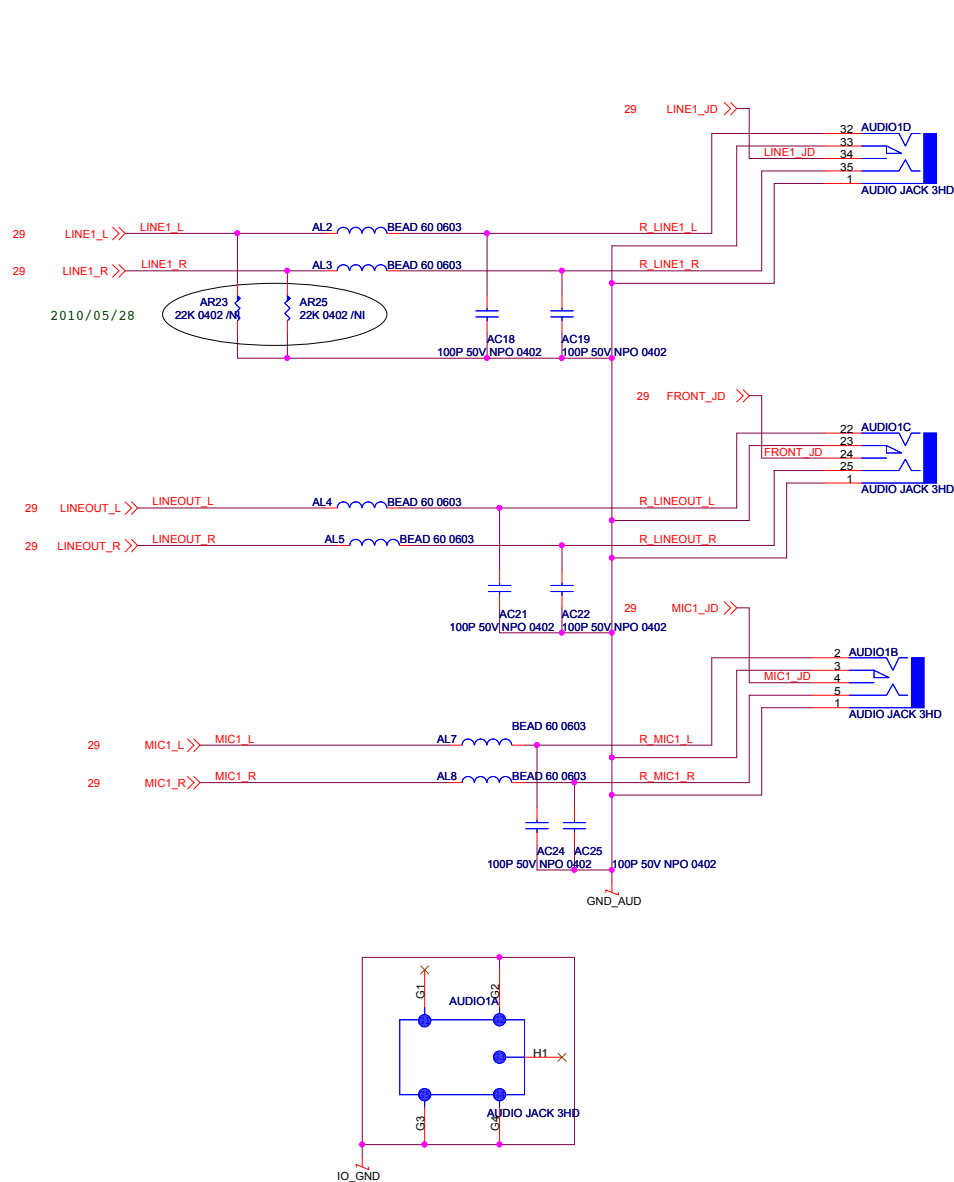
for cost down



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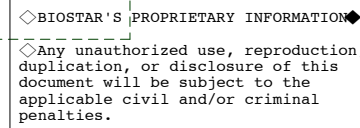


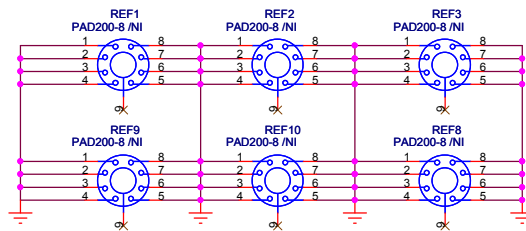
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Title AUDIO CONNECTOR	
Size Custom	Document Number A88PC-M3S
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IT8721FBX

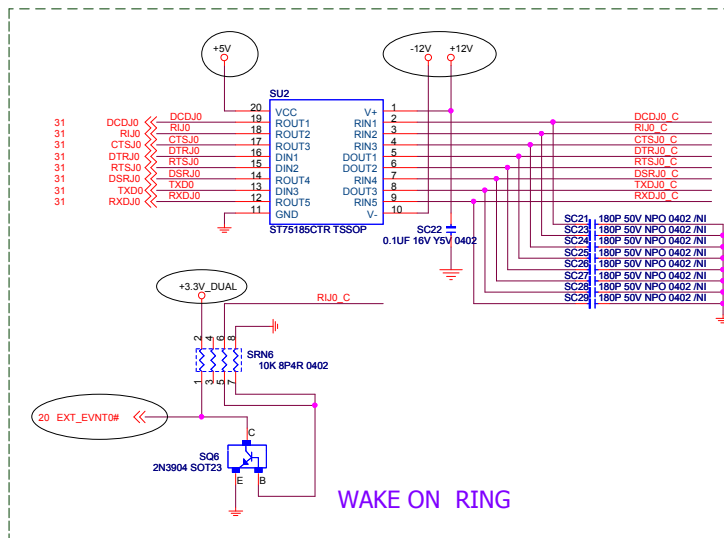




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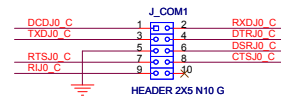
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 映泰股份有限公司 BIOSTAR GROUP	
Title FDD / PS2 CONN / BIOS	
Size Custom	Document Number A88PC-M3S
Date: Tuesday, June 29, 2010	Sheet 33 of 43 Rev 6.1

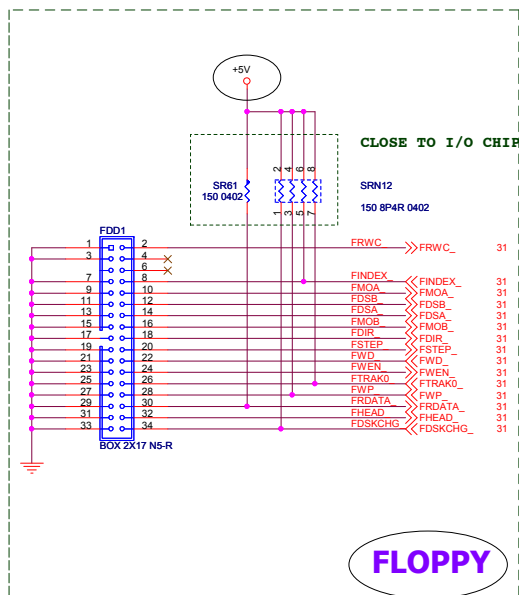


COM PORT

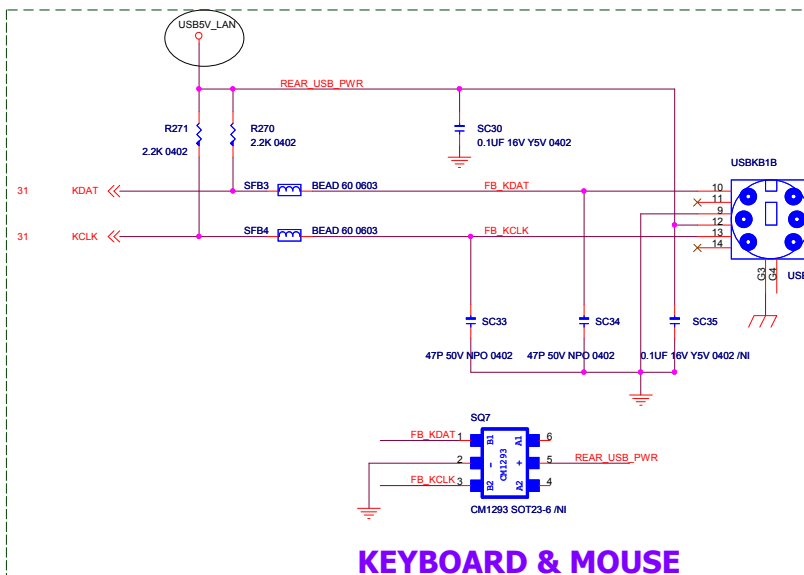
COM HEADER



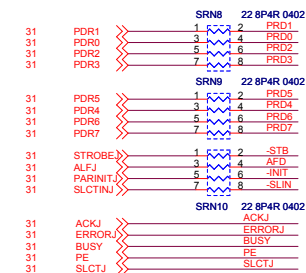
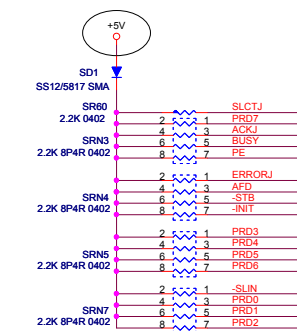
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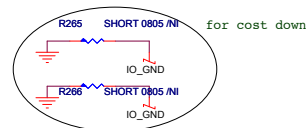
FLOPPY



KEYBOARD & MOUSE



PARALLEL CONNECTOR



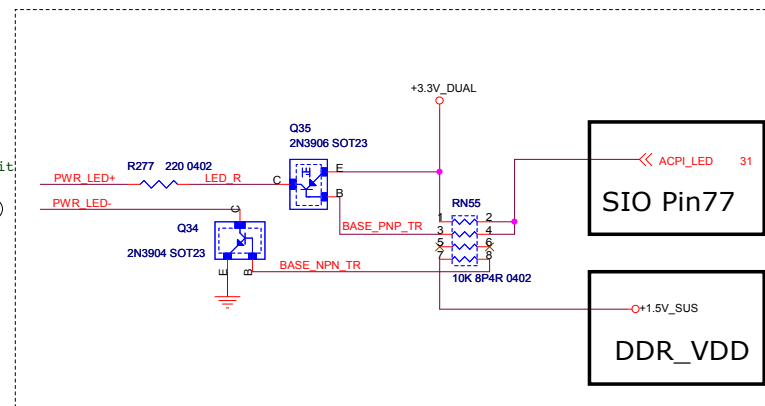
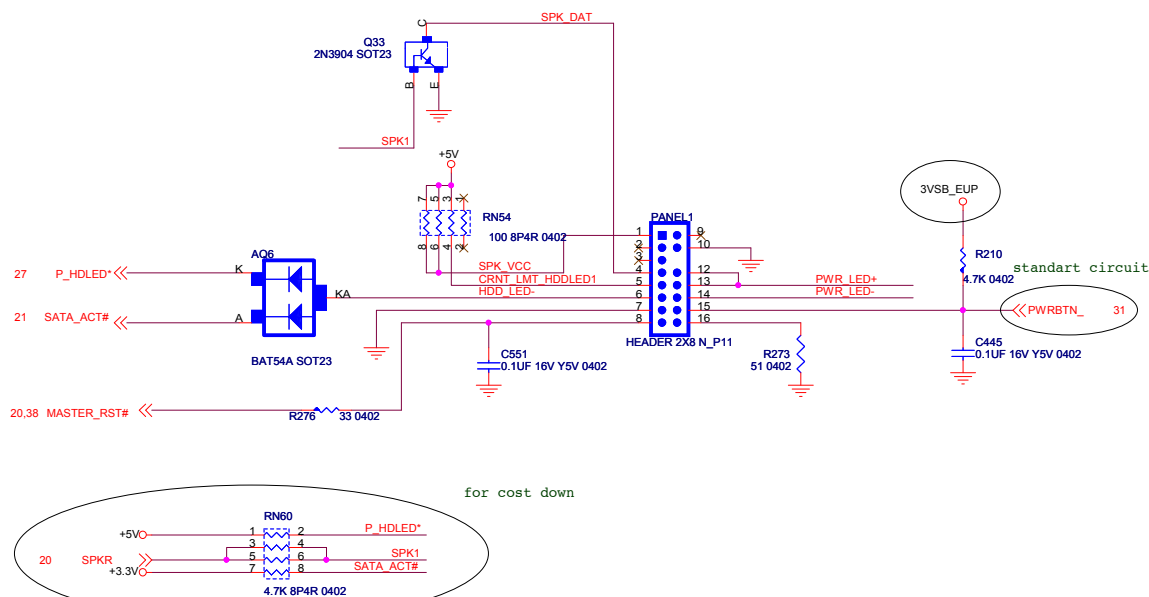
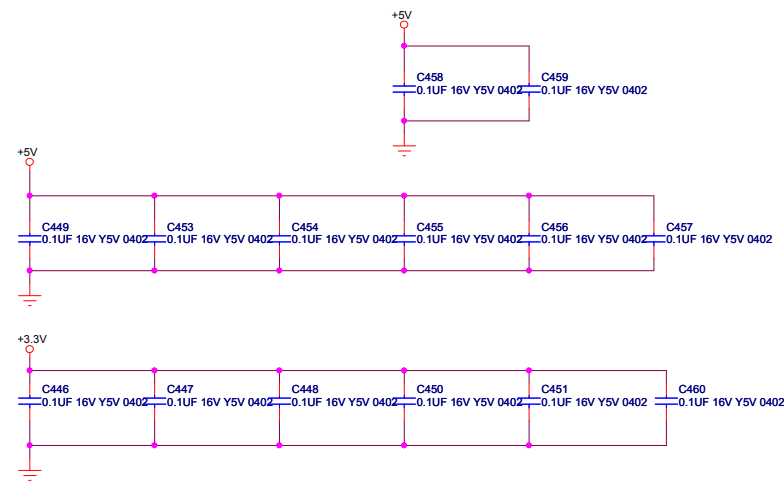
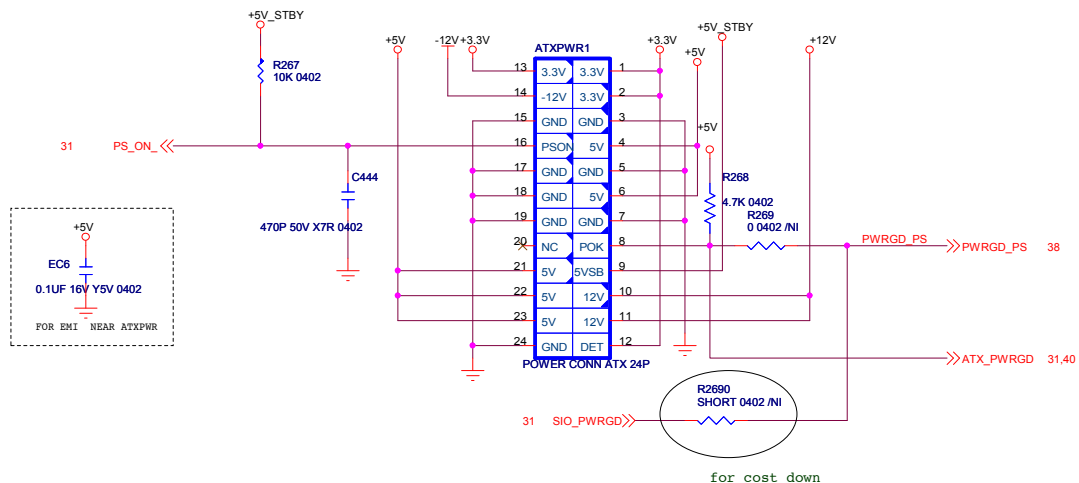
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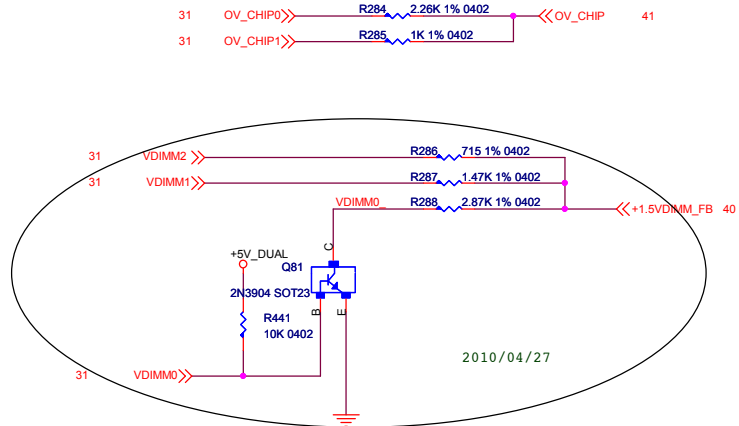
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BIOSTAR GROUP

Title: **COM & LPT CONNECTOR**

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CORE VOLTAGE	OV_CHIP1	OV_CHIP0
+1.14V	1	1
+1.18V	1	0
+1.23V	0	1
+1.27V	0	0

VDIMM0_	VDIMM1	VDIMM2	
1	1	1	1.5V
0	1	1	Default 1.6V
1	0	1	1.7V
0	0	1	1.8V
1	1	0	1.9V

add mos	VDIMM0	VDIMM1	VDIMM2	
	0	1	1	1.5V
	1	1	1	Default 1.6V
	0	0	1	1.7V
	1	0	1	1.8V
	0	1	0	1.9V

+1.5VDIMM_FB	VDIMM0	VDIMM1	VDIMM2
1.2V	1	1	0
1.3V	0	1	0
1.4V	1	0	0
1.5V	0	0	0
Default 1.6V	1	1	1
1.7V	0	1	1
1.8V	1	0	1
1.9V	0	0	1

1.2V_HT	OV_LDT0	OV_LDT1
Default 1.22V	1	1
1.27V	0	1
1.32V	1	0
1.37V	0	0

0V_CPU	OV0	OV1
Default V_CPU	1	1
+0.05V	0	1
+0.1V	1	0
+0.15V	0	0

0V_CPUNB	OV0	OV1
Default V_CPUNB	1	1
+0.05V	0	1
+0.1V	1	0
+0.15V	0	0

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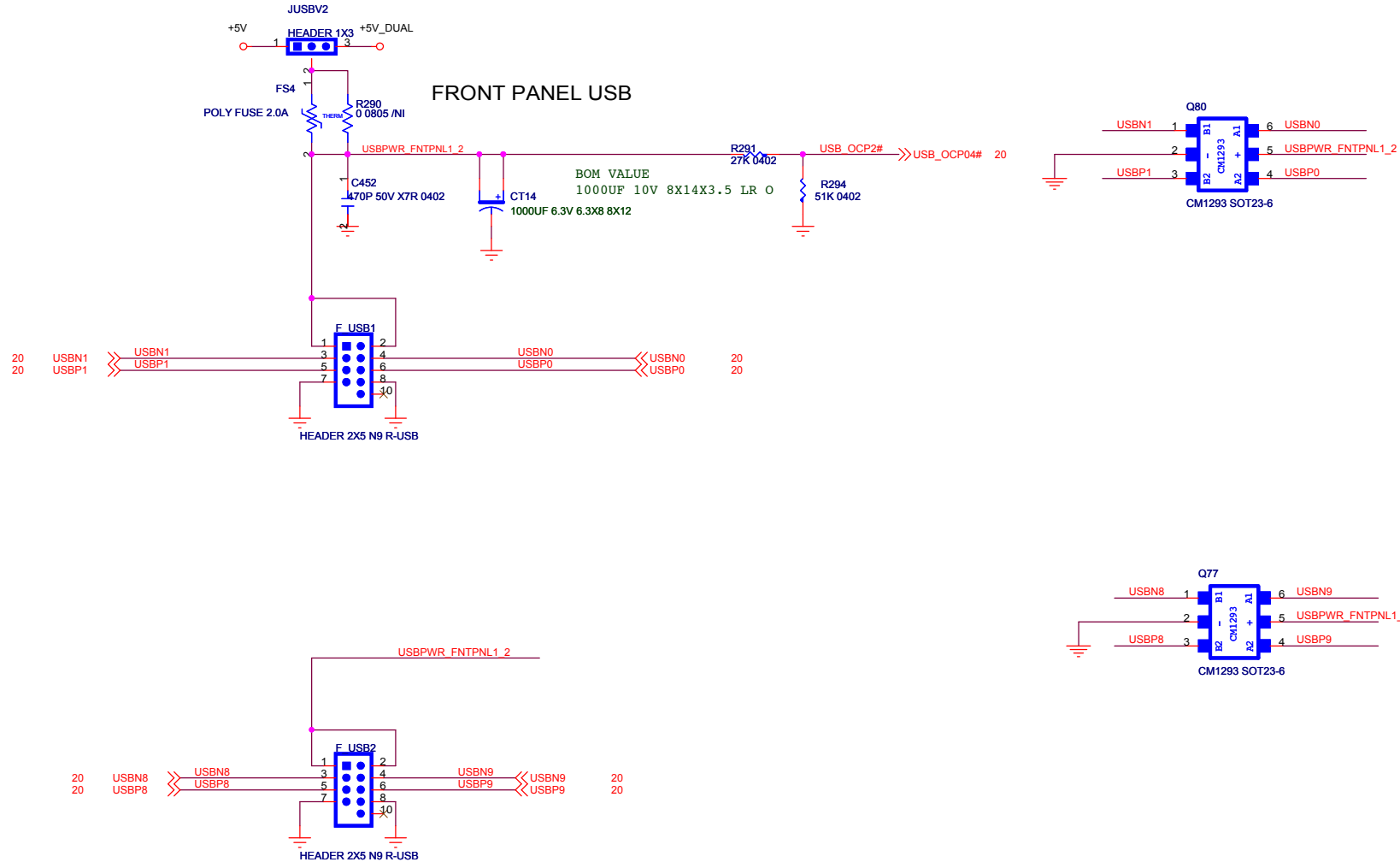
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BIOSSTAR GROUP

Title

OVER VOLTAGE


Size Custom Document Number **A88PC-M3S** Rev 6.1

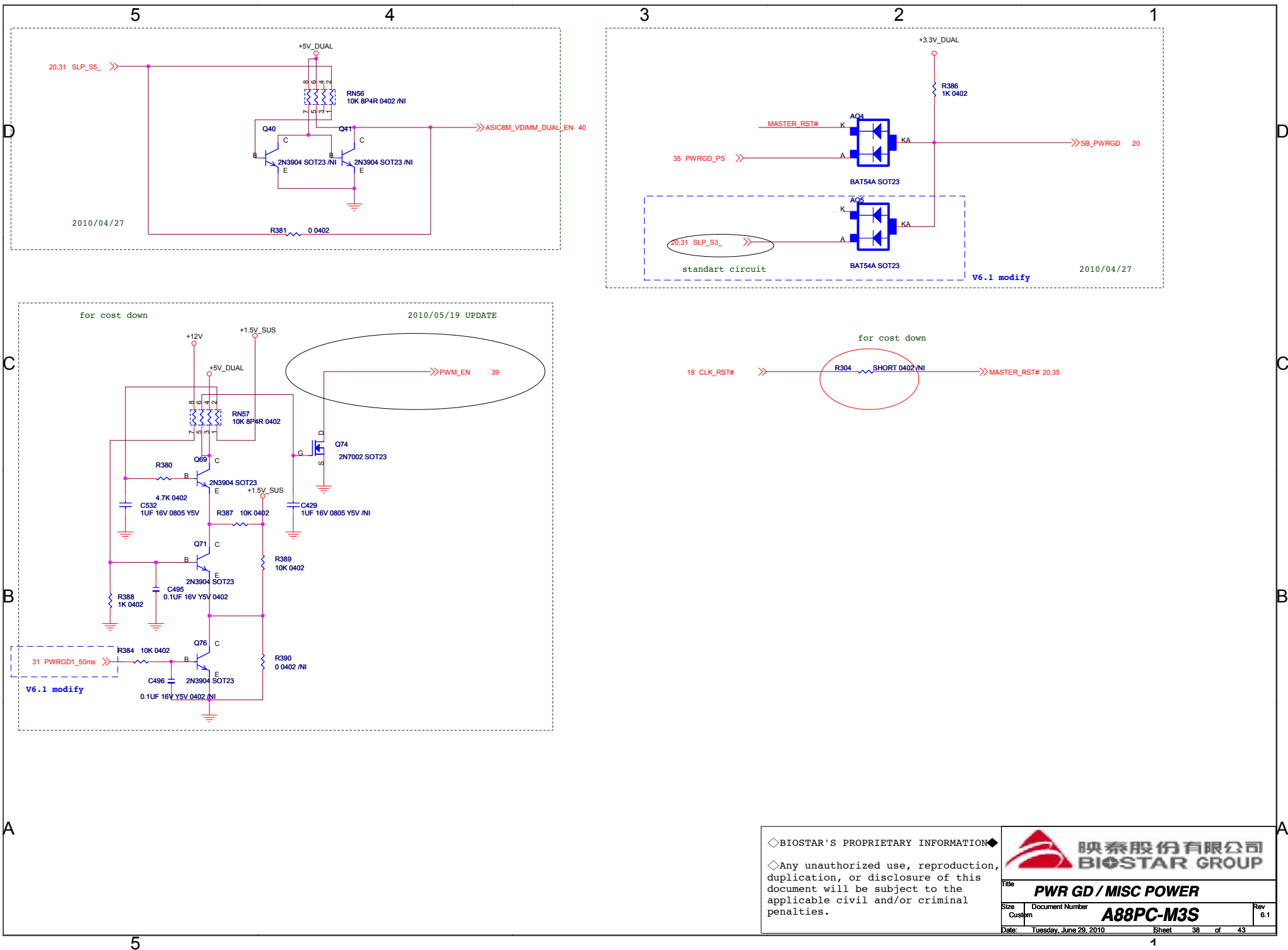
Date: Tuesday, June 29, 2010 Sheet 36 of 43



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		FRONT USB	
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+1.5V SUS



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Title		VCORE POWER SUPPLY	
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NB CORE(+1.1V) POWER

BOM VALUE
1000UF 6.3V 8X12

CT27 BOM VALUE
270UF-S 16V 8X11 ELITE
+1.1V @ 8A AMPS MAX

BOM VALUE
1000UF 6.3V 8X12
2010/05/28
Vout=0.8(1+R1/R2)----for FP6321A

	FP6321A	UP6101B
R3	NI	13.7K 1% 0402
R4	NI	26.1K 1% 0402
R5	30K	NI
R6	NI	0 0402
R7	NI	NI
C1	NI	5P 50V NPO 0402
C2	NI	4700P 50V X7R 0402

NB CORE SB CORE ENBLE

+1.2V_HT&+1.2V POWER

CT33 BOM VALUE
1000UF 6.3V 8X12
CT31 BOM VALUE
1000UF 6.3V 8X12 /NI

Vout=V1 X (1+R1/R2)

+1.8V POWER

BOM VALUE
1000UF 6.3V 8X12

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Title
NB/SB CORE POWER

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Custom
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A

B

C

D

E

4

4

3

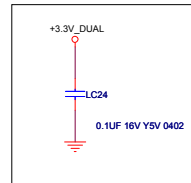
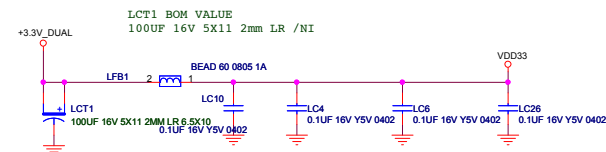
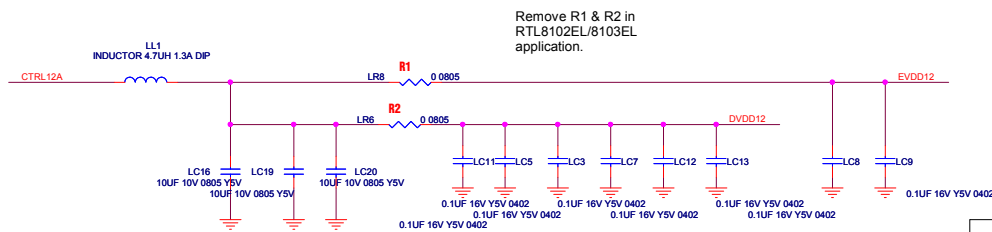
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2

2

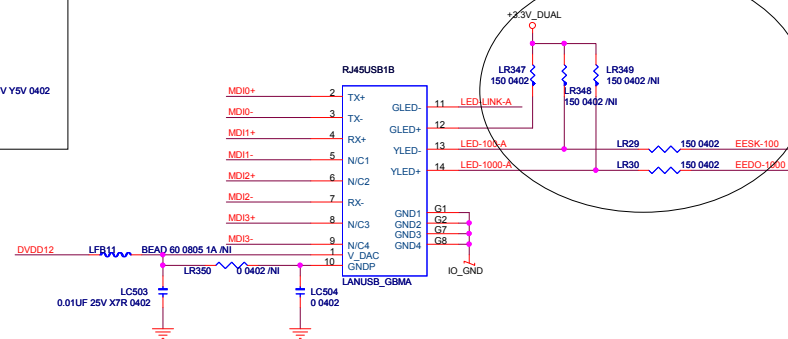
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1

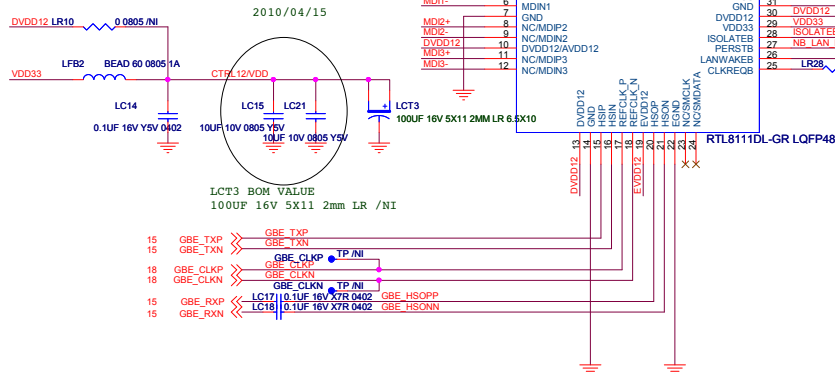
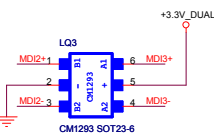
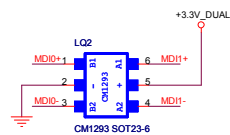
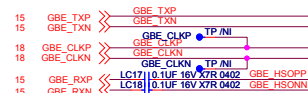


2010/05/21 ADD LC24 FOR EMI

2010/04/15



For RTL8102EL, use this block.

LCT3 BOM VALUE
100UF 16V 5X11 2mm LR / NIBIOS pull high/low on Pin28
ISOLATE to leave/enter DSM.

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Title			
REL8111DL/8102EL			
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