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IP67C-AHT

ATX (305mm X 210mm)

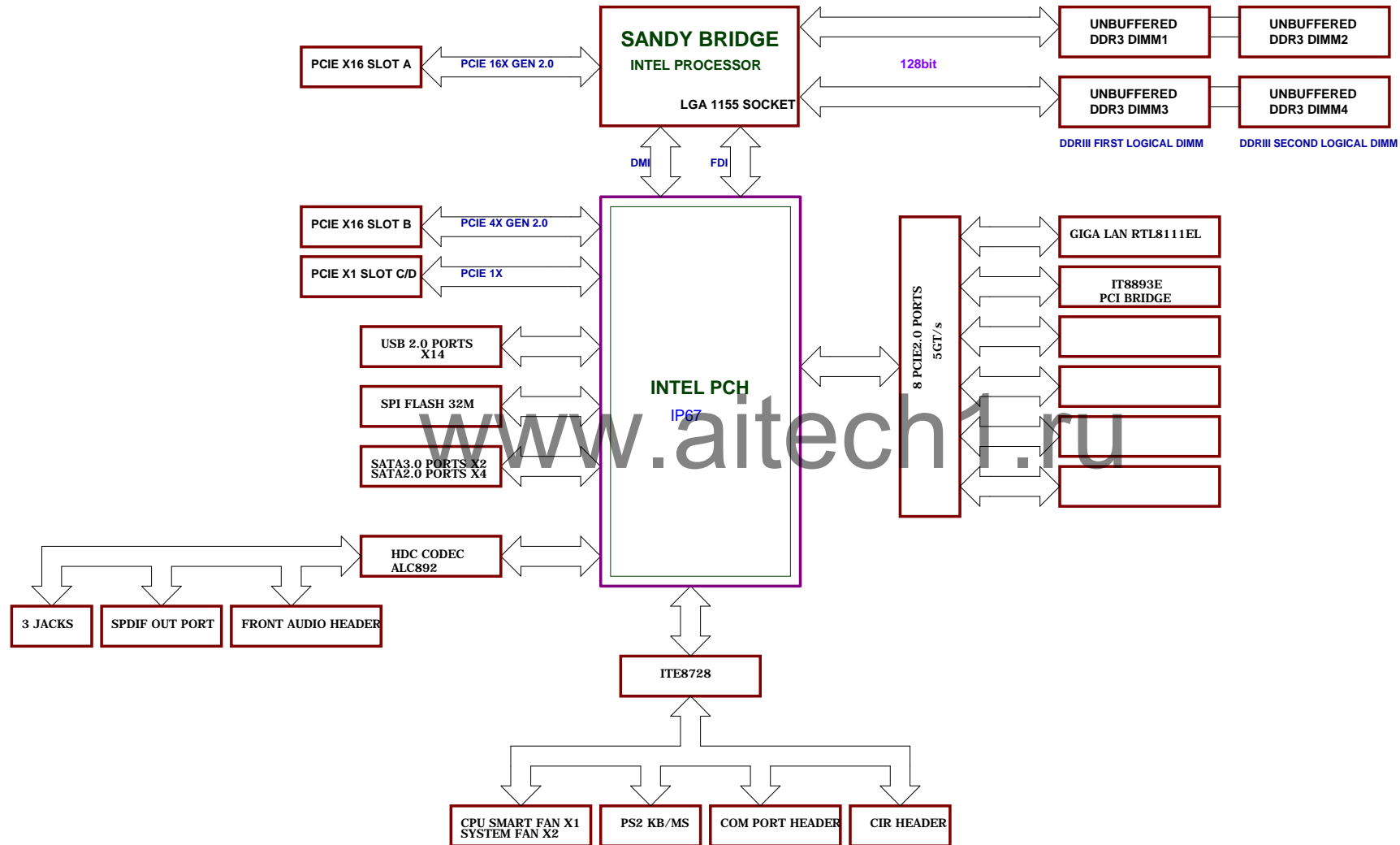
VER:0.6

INTEL SANDY BRIDGE (1155) PROCESSOR
 INTEL P67 PCH
 DDR3-2000(OC)/1600(OC)/1333 /1066 /800 X4
 PCIE X16 SLOT X2
 PCIE X1 SLOT X1
 PCI SLOT X2
 IT8728 SUPERIO
 ALC 892 CODEC
 RTL8111E LAN SUPPORTS 10/100/1000
 AMS 1042 SUPPORTS USB3.0 INTERFACE


TARZAN

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Size Custom	Document Number IP67C-AHT	Rev 0.6	
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IP67C-AHT-V0.6 BLOCK DIAGRAM



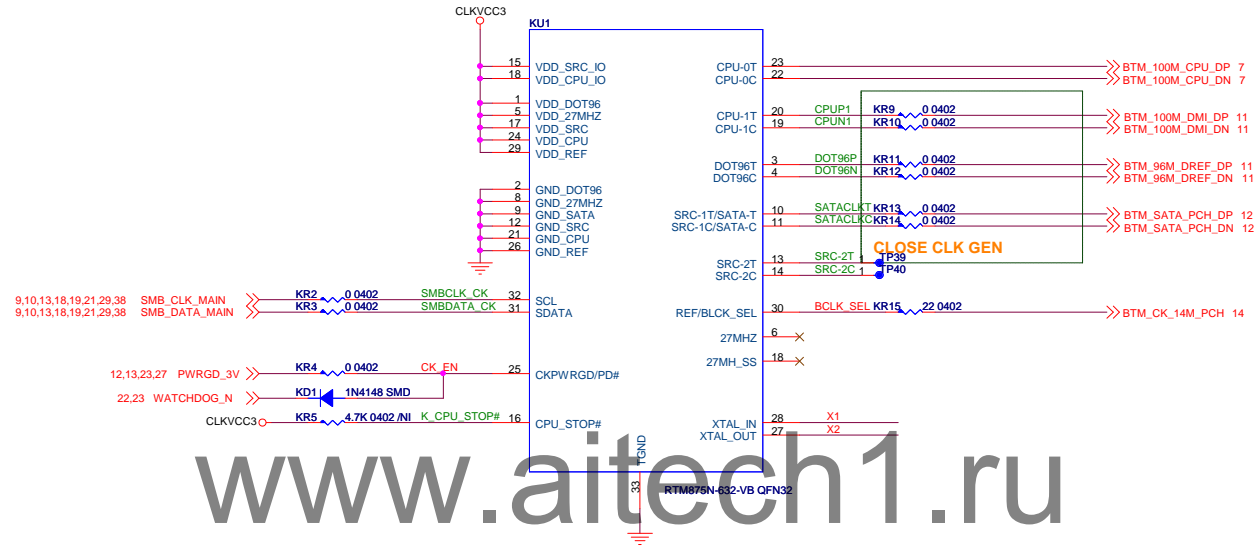
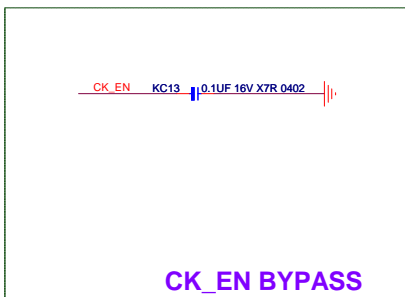
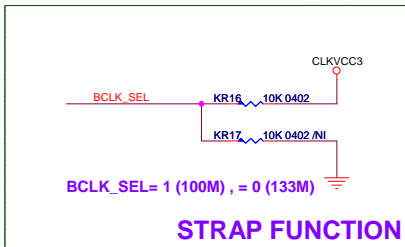
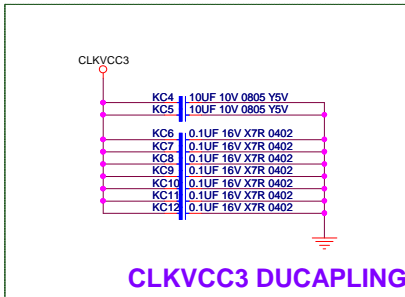
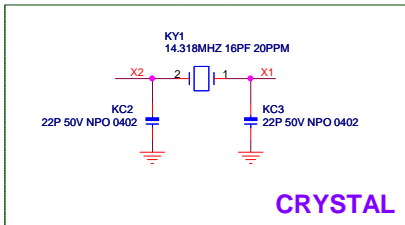
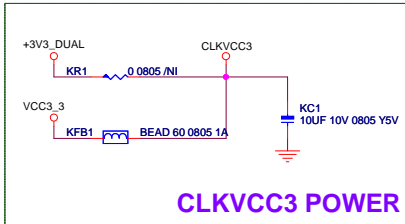
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Title BLOCK DIAGRAM			
Size	Document Number	Rev	
Custom	IP67C-AHT	0.6	
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Size	Custom	Document Number		Rev	
		IP67C-AHT		0.6	
Date: Tuesday, June 22, 2010		Sheet		3 of 39	

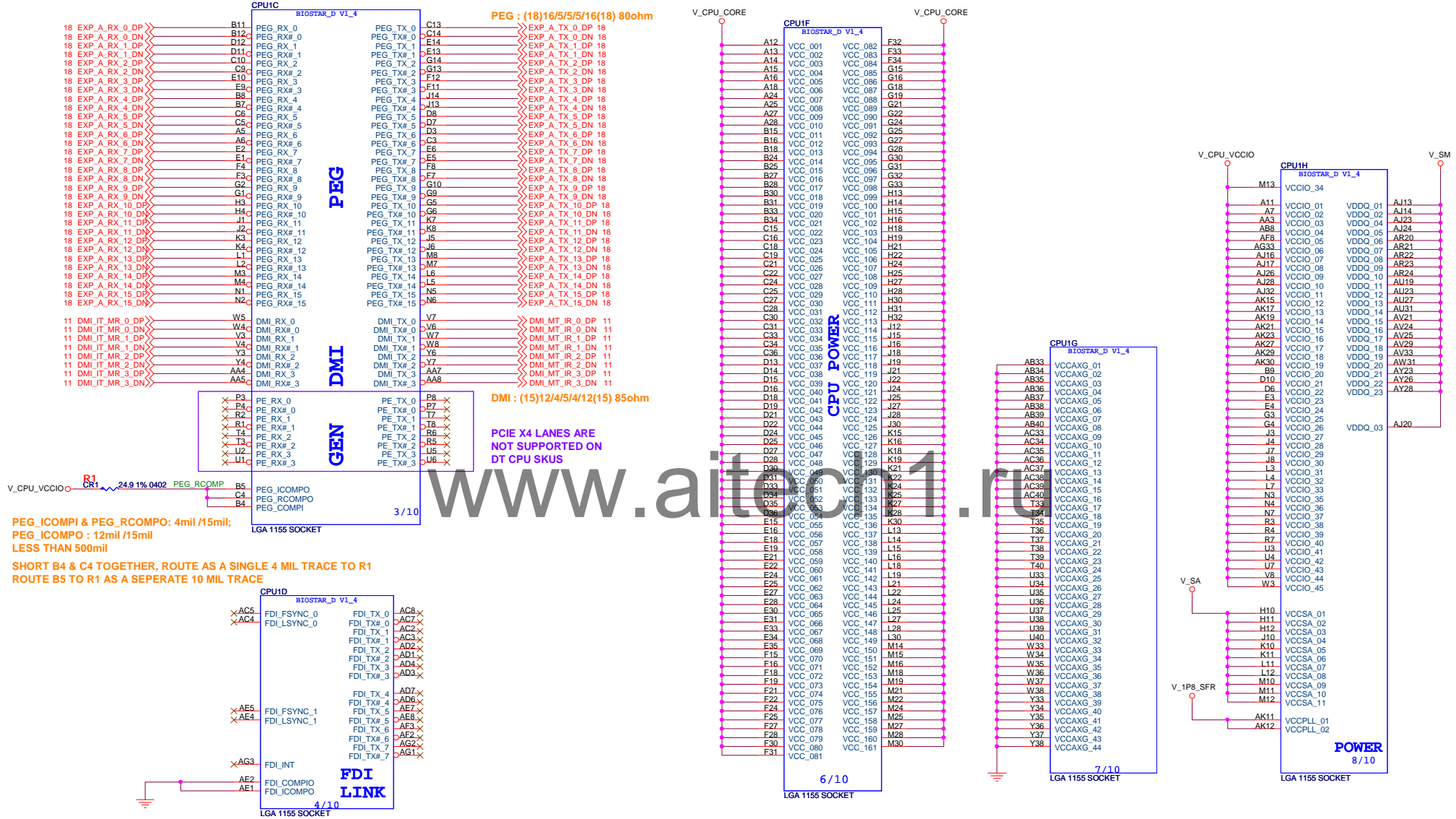
CLOCK GEN PART: K+Reference



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<p>Title</p> <p>CK505 CLOCK GENERATOR</p>		<p>Rev</p> <p>0.6</p>	
<p>Size</p> <p>Custom</p>	<p>Document Number</p> <p>IP67C-AHT</p>	<p>Date: Friday, July 23, 2010</p>	
<p>Sheet</p> <p>4</p>		<p>of</p> <p>39</p>	

CPU PART: C+Reference



PEG_ICOMPI & PEG_RCOMP: 4mil /15mil;
PEG_ICOMPO : 12mil /15mil
LESS THAN 500mil

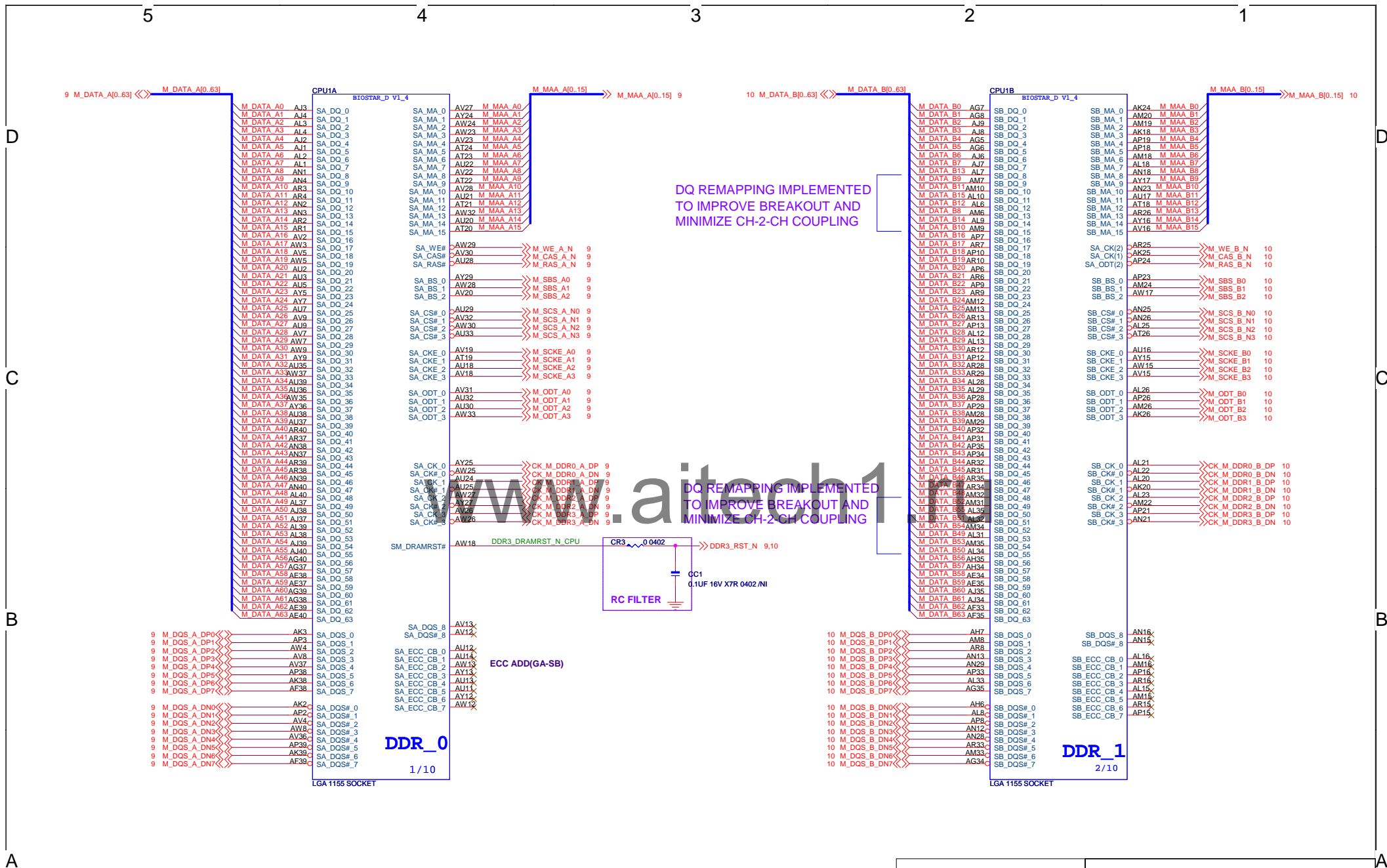
SHORT B4 & C4 TOGETHER, ROUTE AS A SINGLE 4 MIL TRACE TO R1
ROUTE B5 TO R1 AS A SEPERATE 10 MIL TRACE

All the FDI signals FDI_TX, FDI_FSYNC, FDI_LSYNC and FDI_INT signals on the CPU and the PCH can be left as No connect for solutions not using integrated graphics/DG98

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Title Intel 1156 CPU1:PE/MISC			
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Size: Custom	Document Number: IP67C-AHT	Rev: 0.6	
Date: Thursday, July 22, 2010	Sheet: 6	of 39	

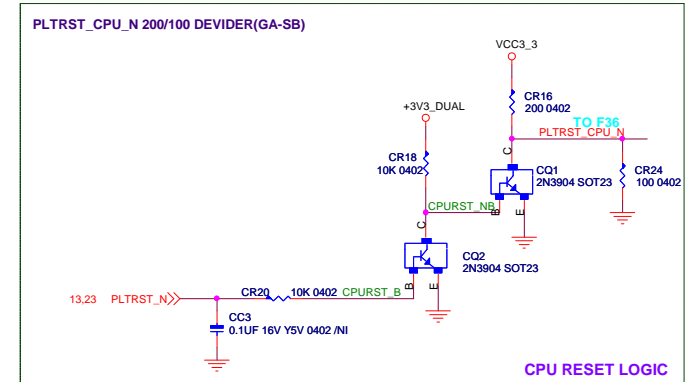
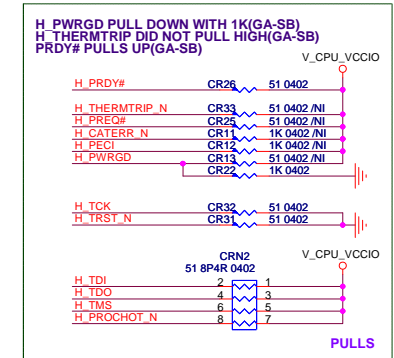
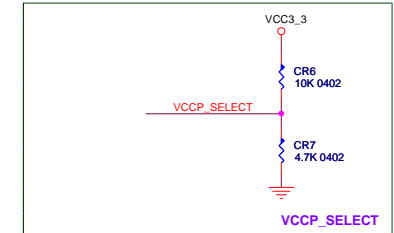
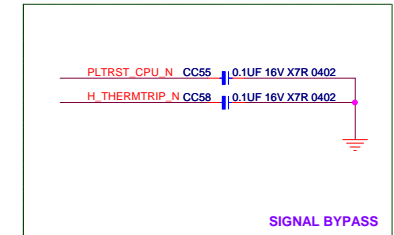
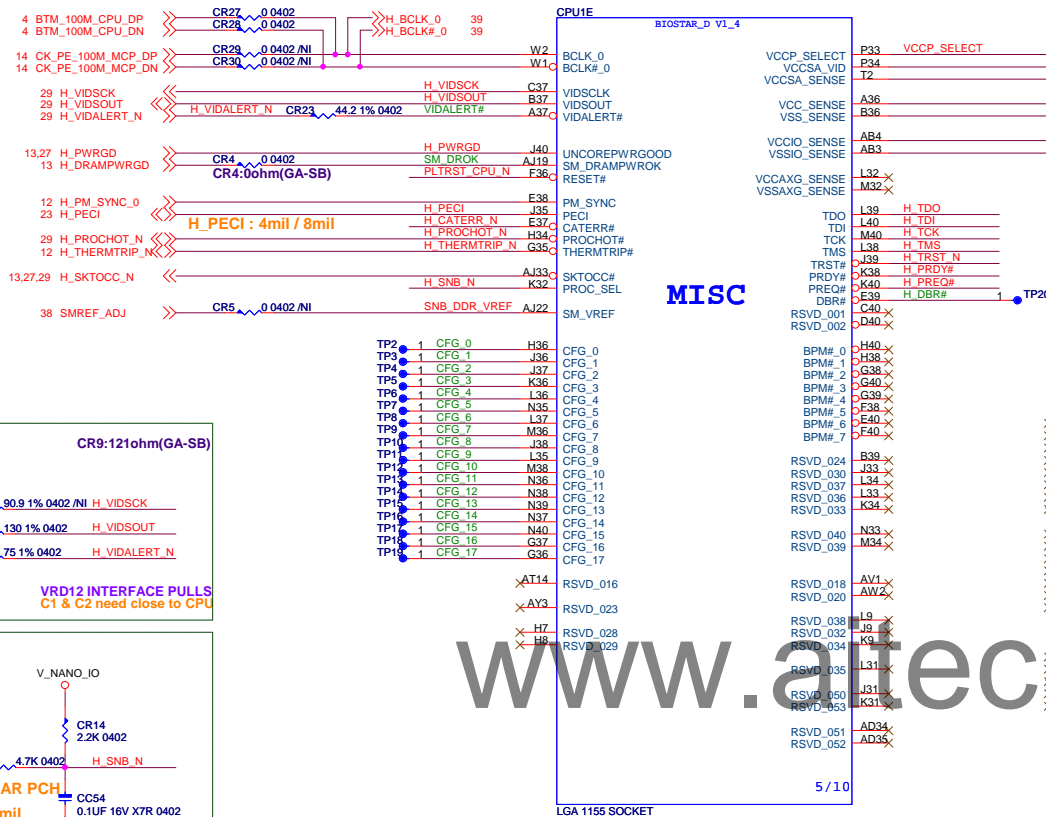
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D

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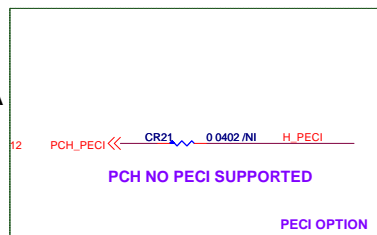
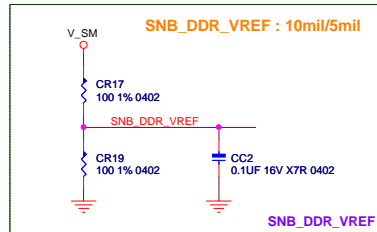
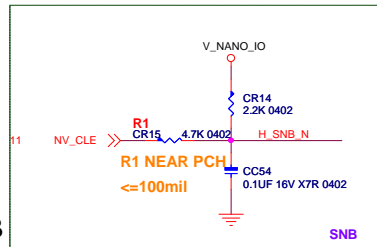
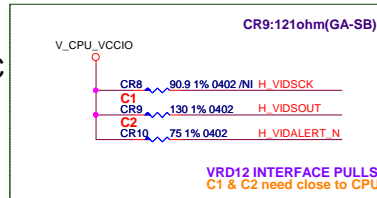
C

B

B

A

A



CFGX TABLE

CFG2		DESCRIPTION
1		Normal operation
0		Lane numbers reversed
CFG3		DESCRIPTION
1		Normal operation
0		Lane numbers reversed
CFG6	CFG5	DESCRIPTION
1	1	1 x16 PCI Express
1	0	2 x8 PCI Express
0	1	reserved
0	0	1 x8, 2 x4 PCI Express
OTHER CFGX		RESERVED

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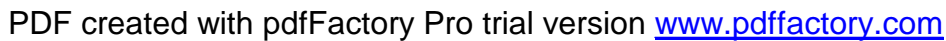
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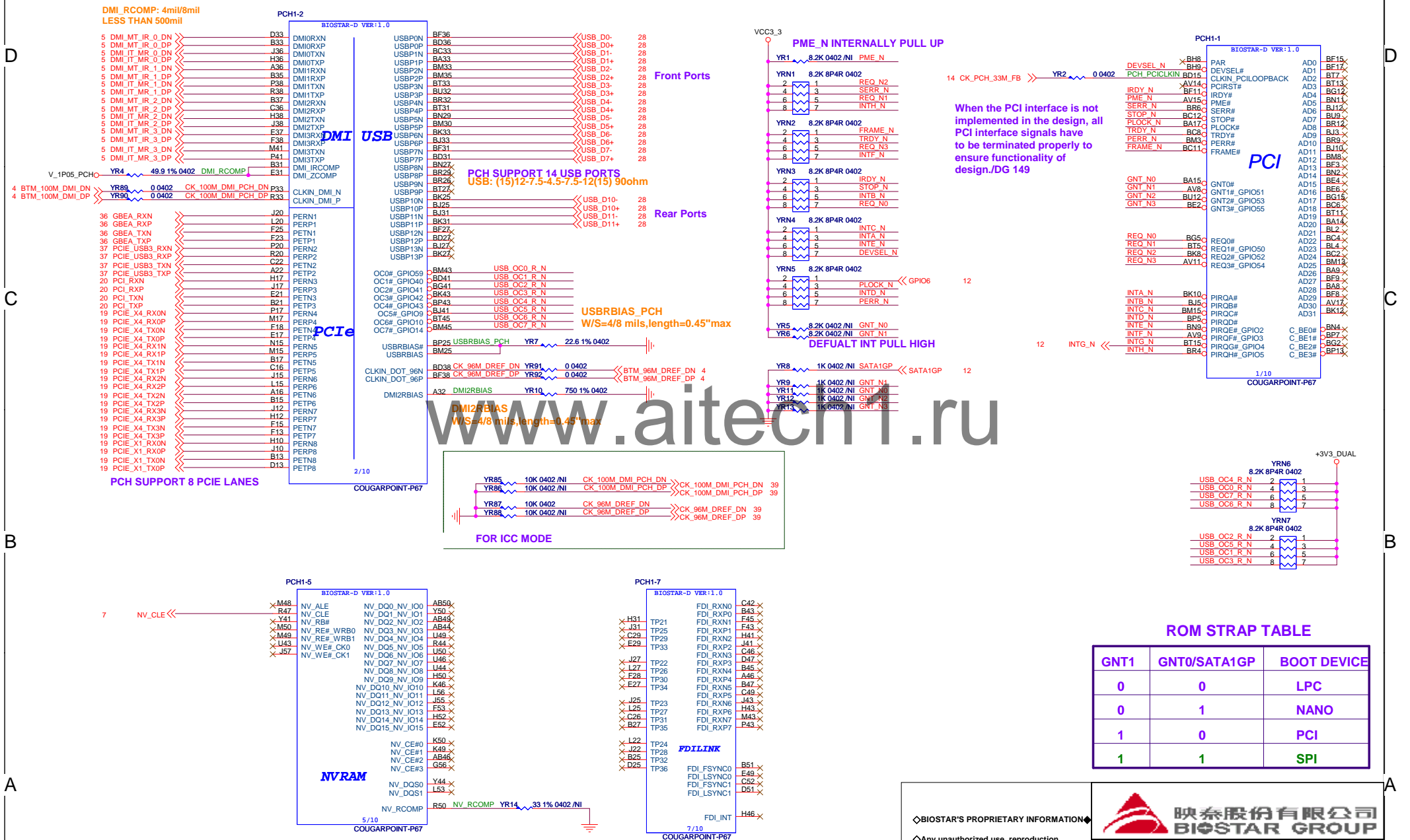
Title: **Intel 1156 CPU3:POWER**

Size: Custom Document Number: **IP67C-AHT** Rev: 0.6

Date: Thursday, July 22, 2010 Sheet: 7 of 39



SOUTHBRIDGE PART: Y+Reference



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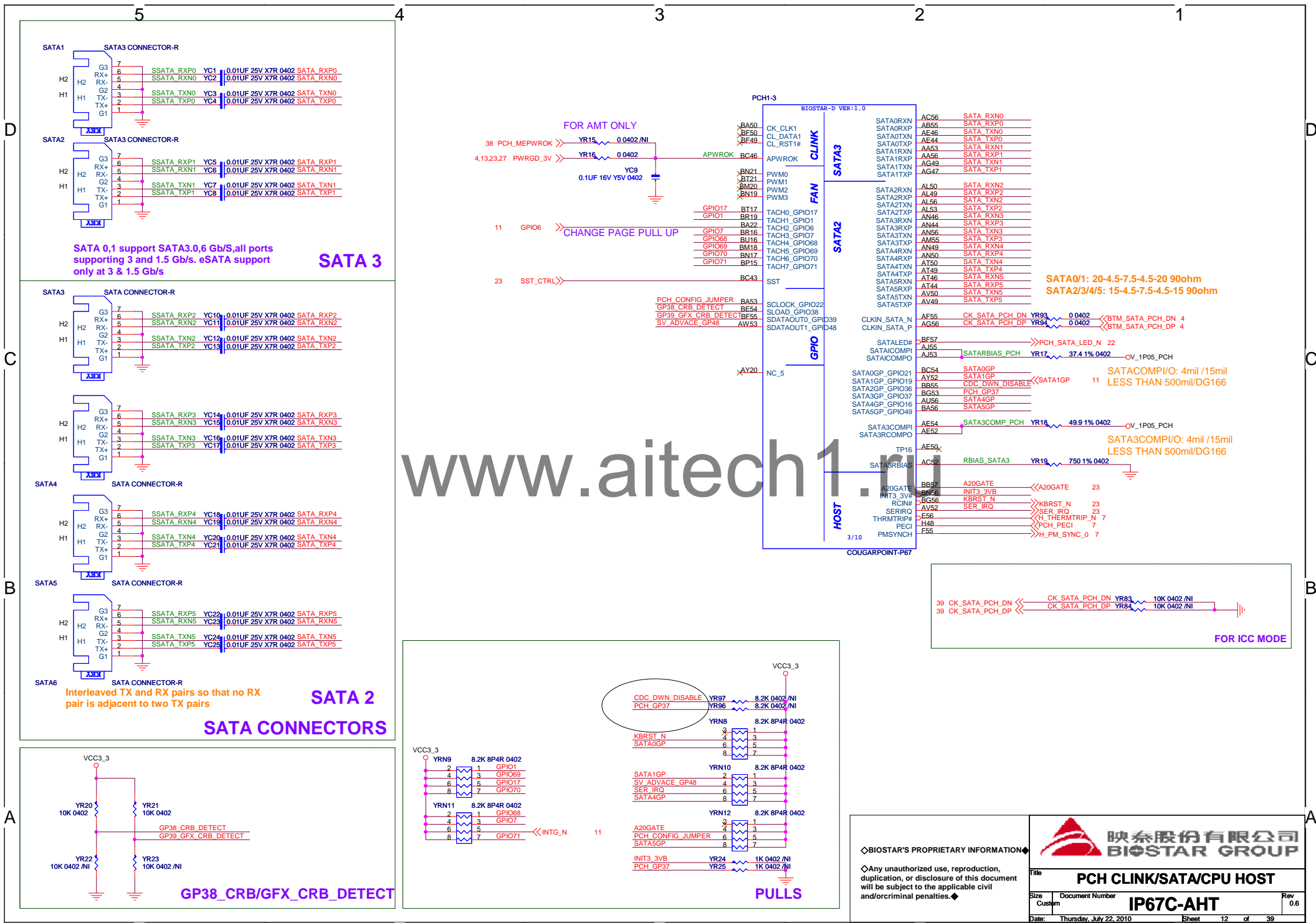
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Title: **PCH DMI/PCIE/USB/PCI/FDI**

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Date: Thursday, July 22, 2010 Sheet: 11 of 39



5

4

3

2

1

L_DRQ_N PULLS UP(GA-SB)

PCH1-4

BIOSTAR-D VER:1.0

EXTERNAL THERMAL EVENT

L_DRQ1#_N

LAD0

LAD1

LAD2

LDRQ_N

L_FRAME_N

LDRQ1#_GPIO23

FWH0_LAD0

FWH1_LAD1

FWH2_LAD2

FWH3_LAD3

LDRQ0#

FWH4_LFRAME#

HDA_BCLK

HDA_RST#

HDA_SDIO0

HDA_SDIO1

HDA_SDIO2

HDA_SDO

HDA_SYNC

SPL_MOSI

SPL_MISO

SPL_CS0_N

SPL_CLK

SPL_CS1#

SPL_CS2#

SPL_CS3#

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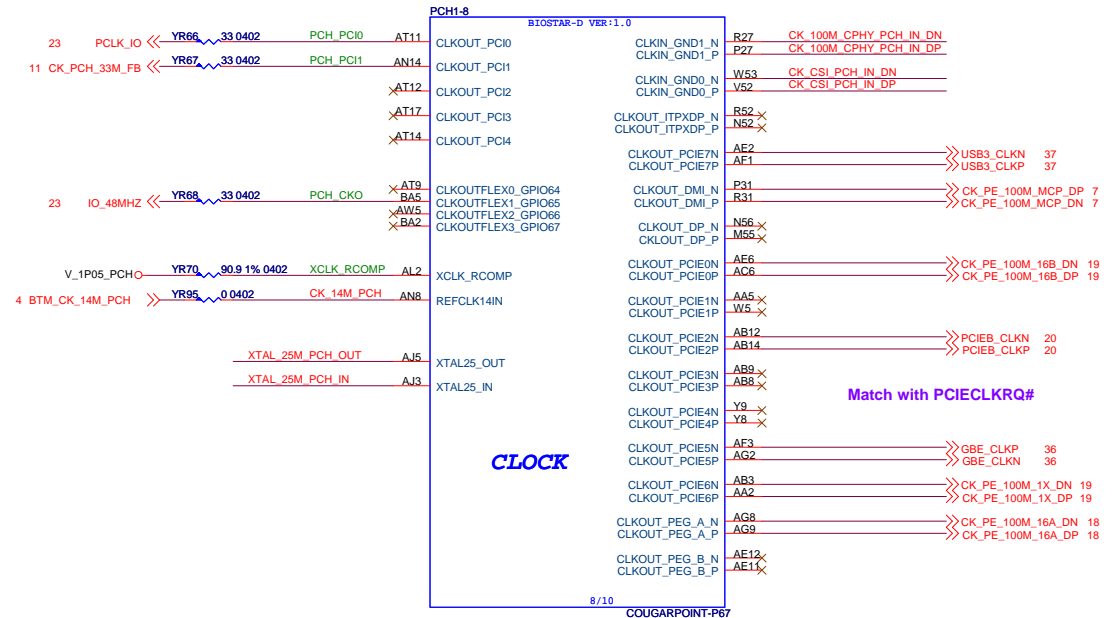
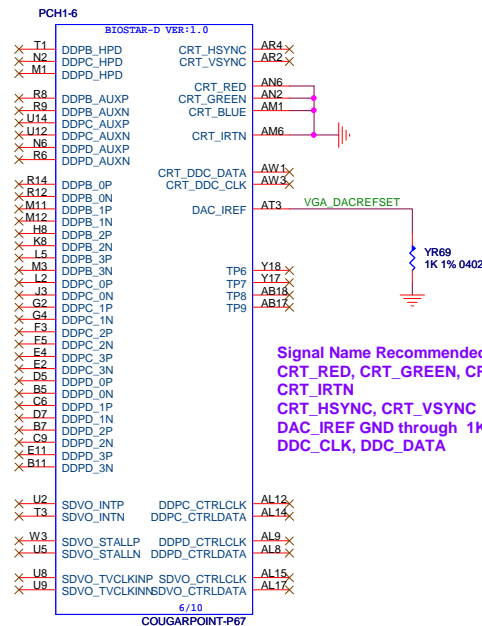
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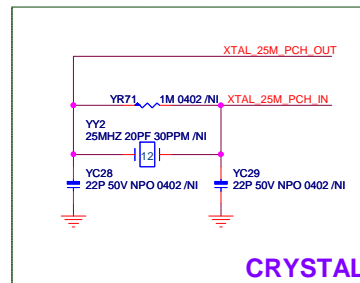
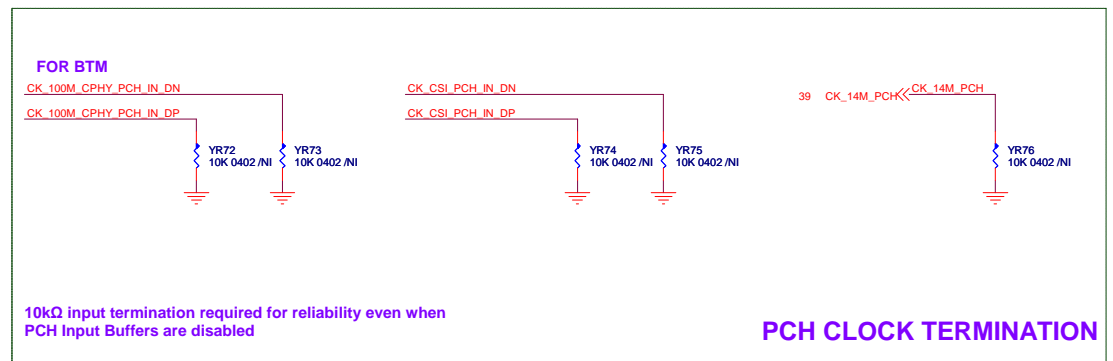
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PORT TABLE

PORTB	FUNCTION
PORTB	DVI OR SDVO
PORTC	DISPLAY PORT
PORTD	HDMI/DVI/eDP

REMOVE LEVEL SHIFTER WHEN TRACE LENGTH LESS THAN 9.25 INCHES

If DisplayPort interface is not implemented, the Main Link, aux channel differential signals and HPD signals can be left as No Connects./DG108



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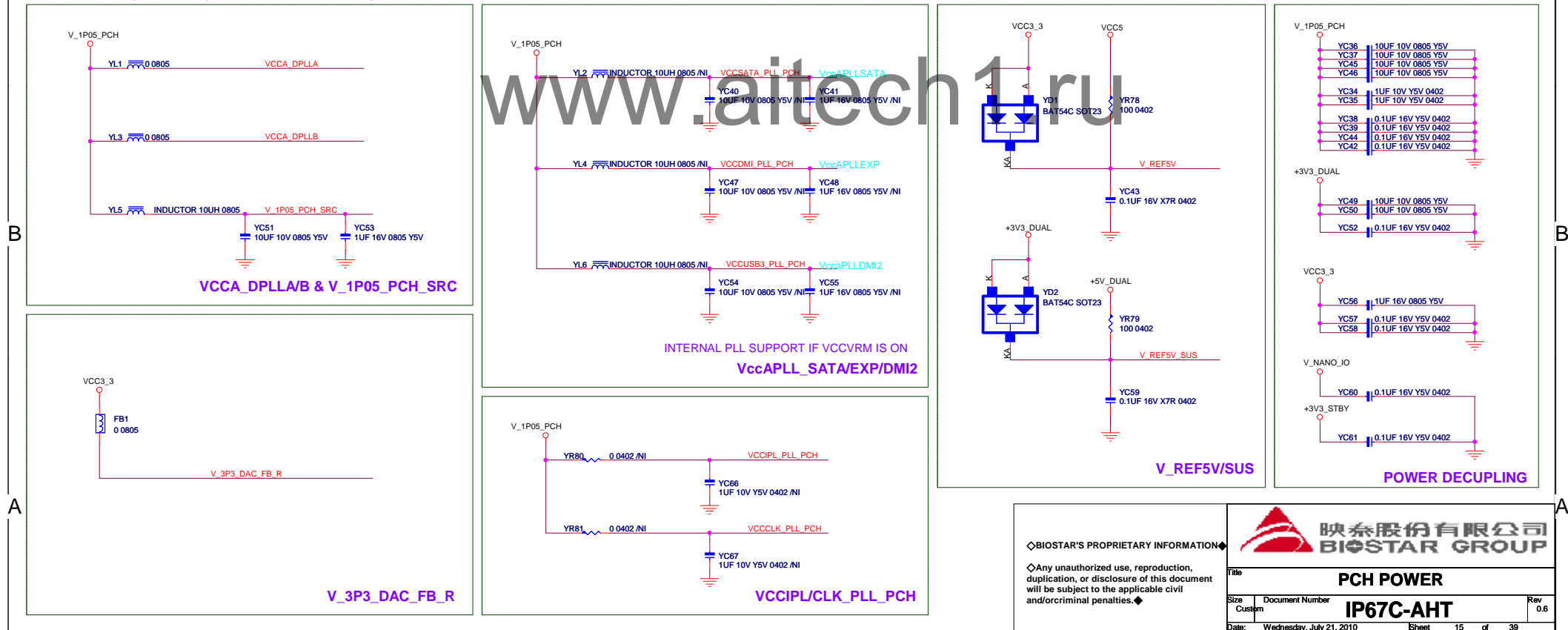
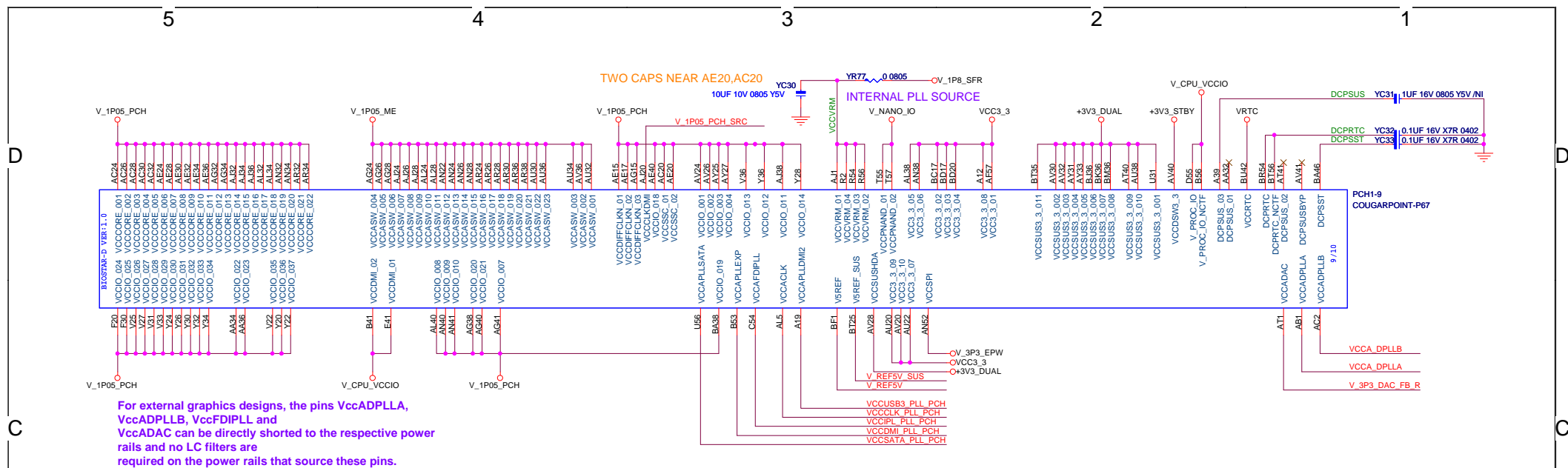
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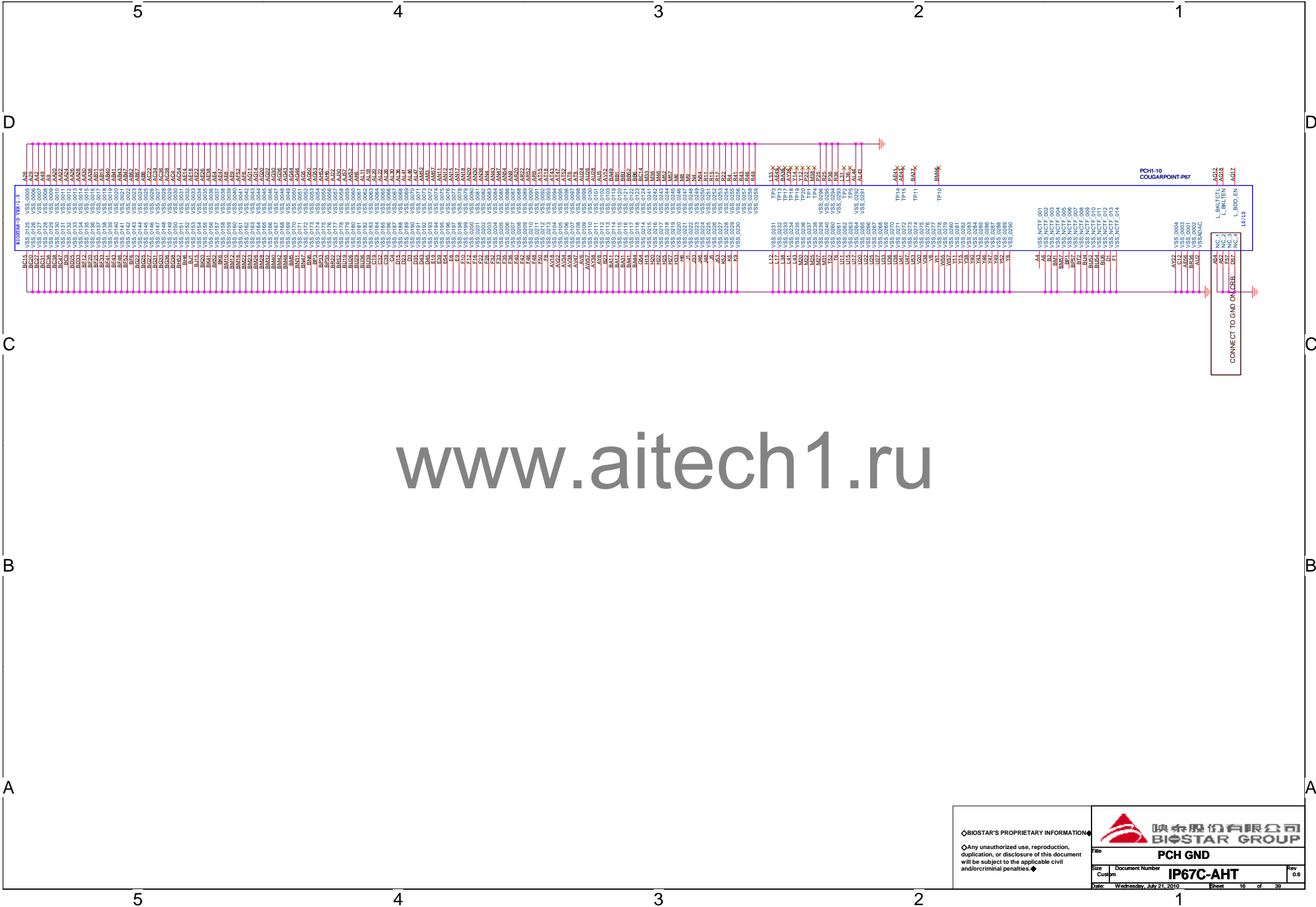
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Title: **PCH VGA/DISPLAY PORT**

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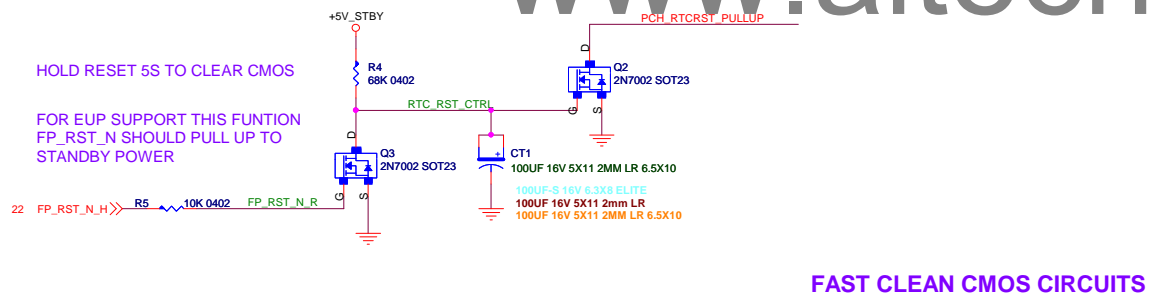
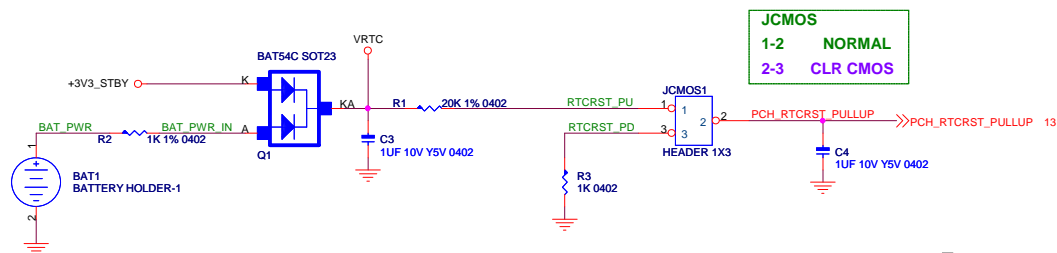
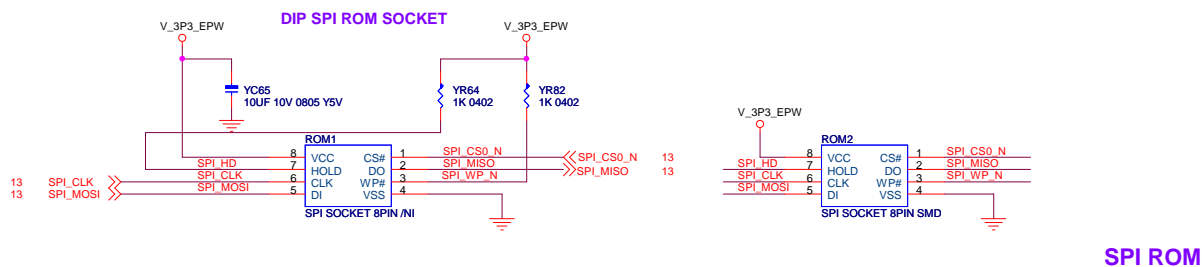
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Title	PCH GND		
Size	Document Number	Rev	0.6
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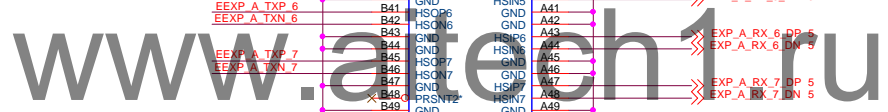
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Title **SPI ROM/RTC CRYSTAL/BAT**

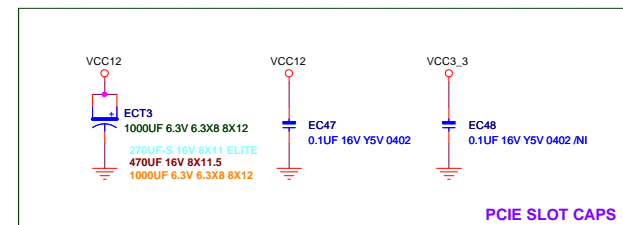
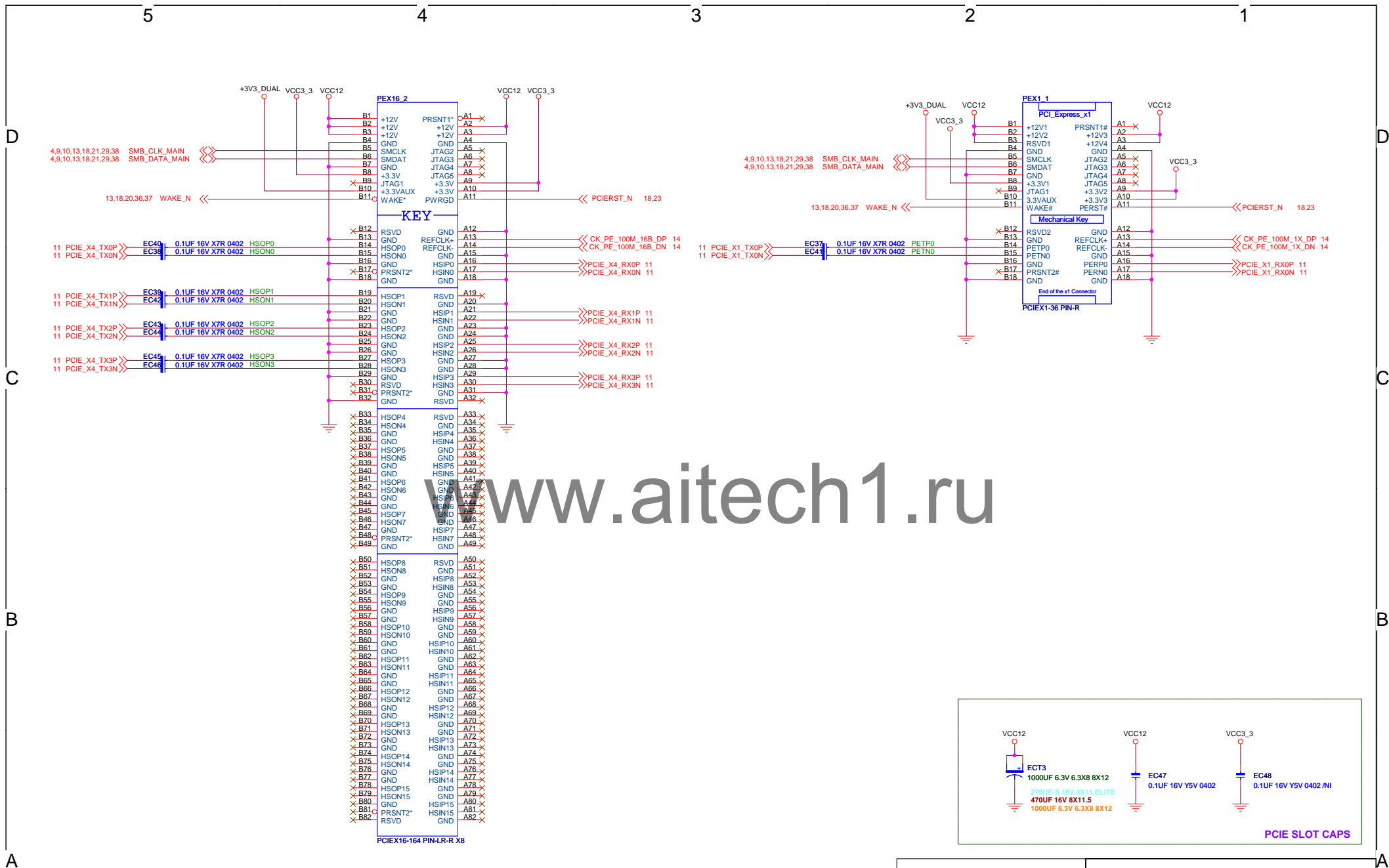
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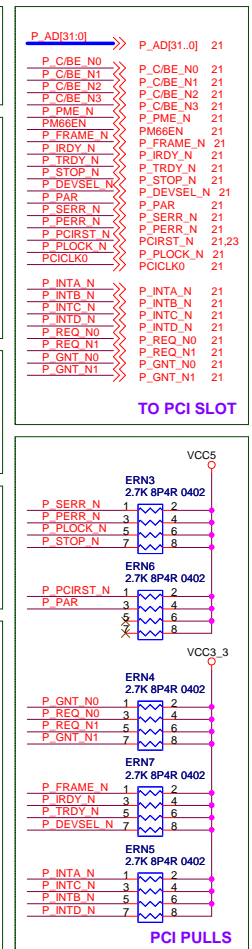
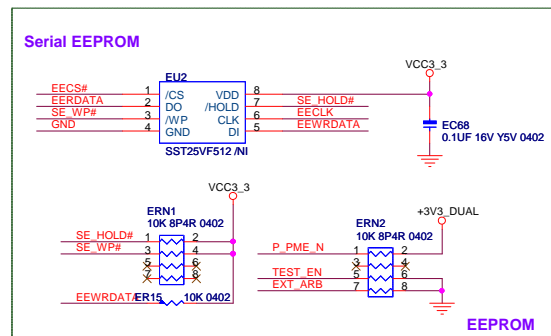
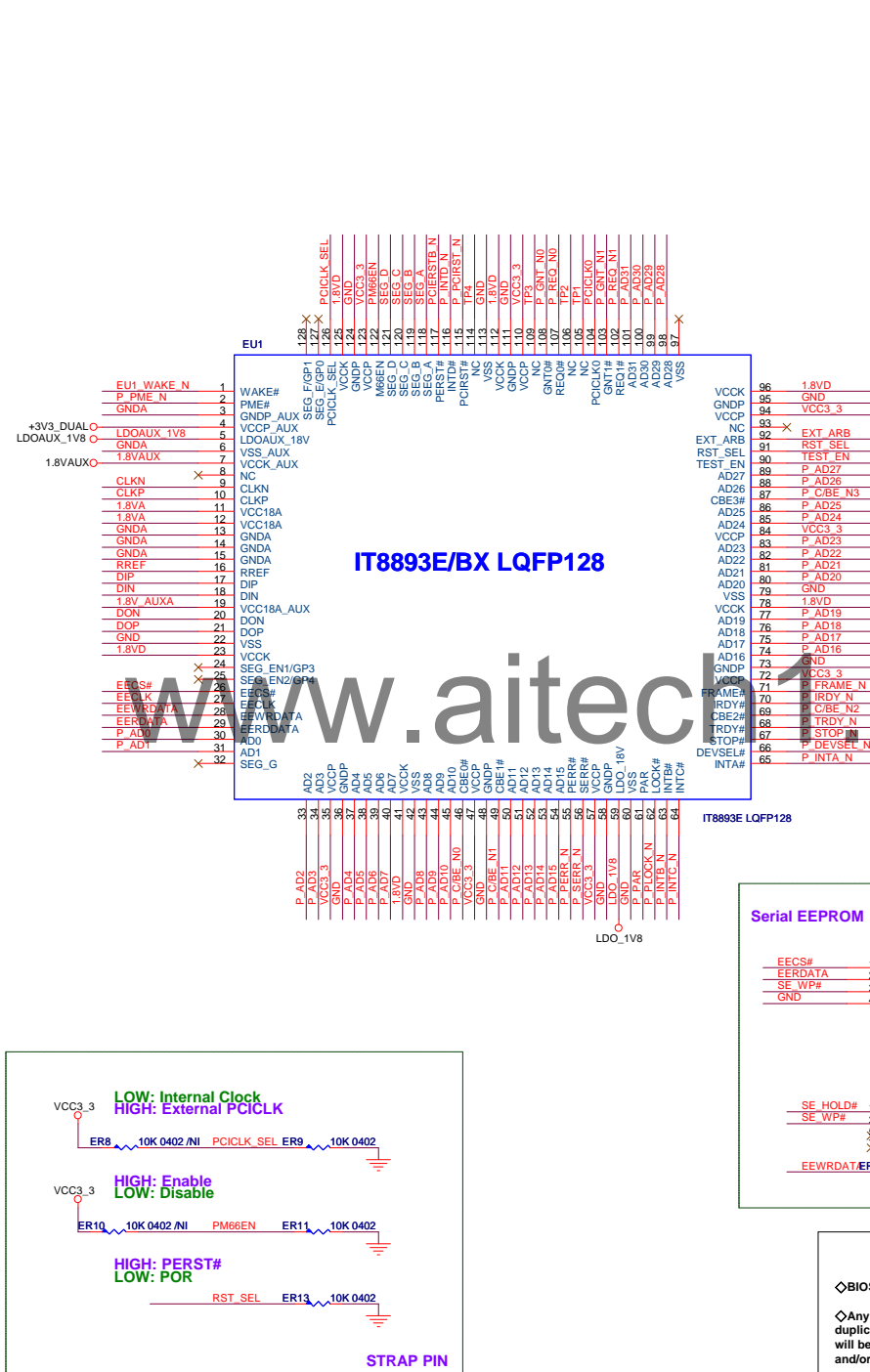
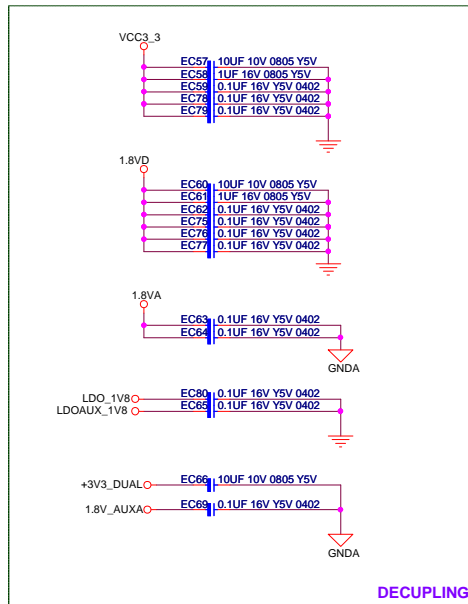
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Size	Document Number	Rev	
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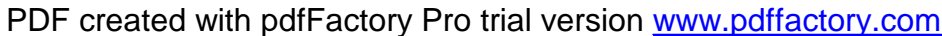
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Size	Document Number	Rev	
Custom	IP67C-AHT	0.6	
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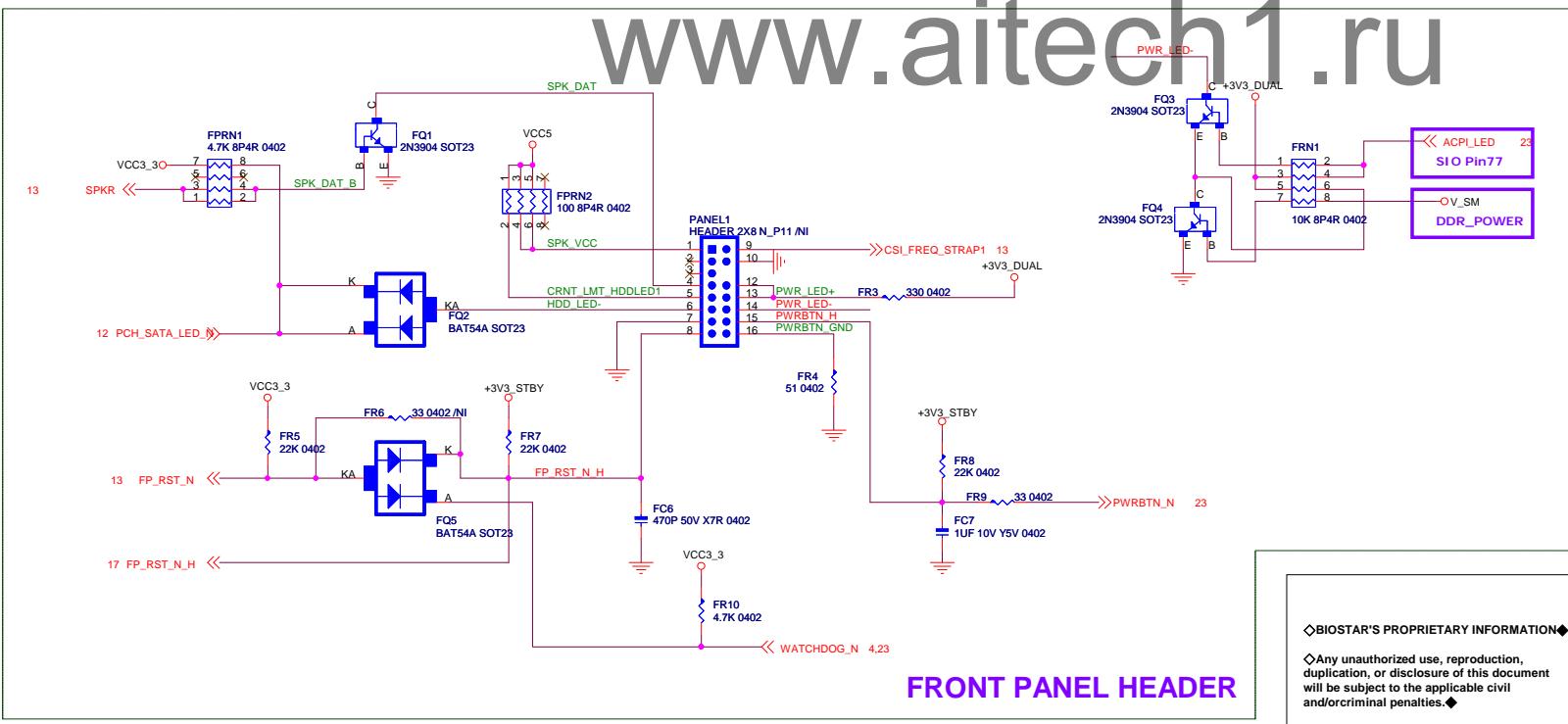
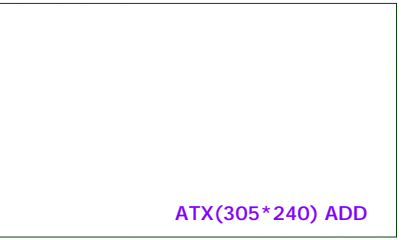
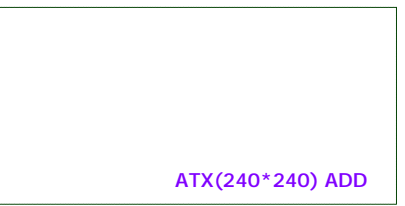
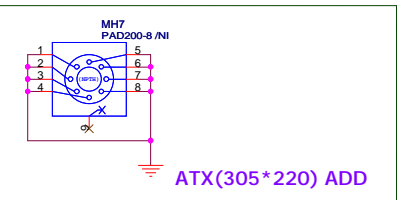
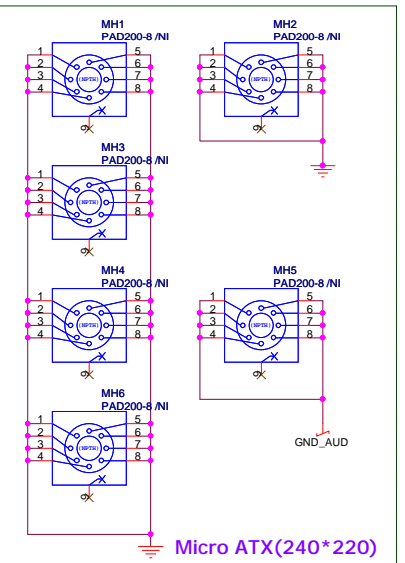
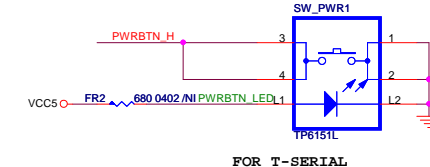
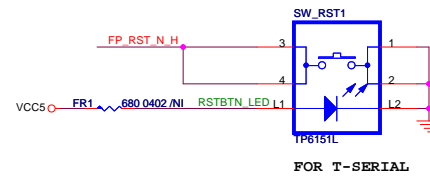
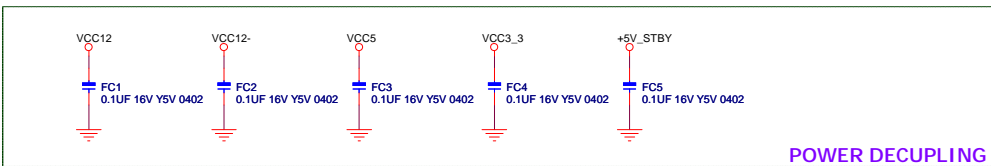
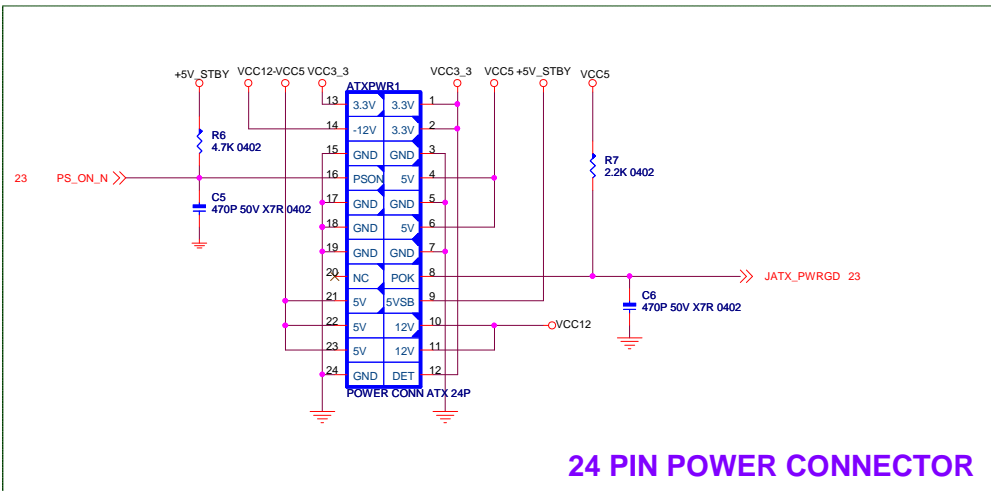


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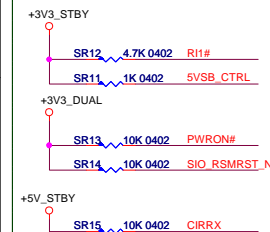
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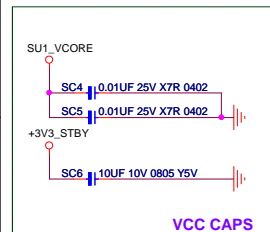
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Size	Document Number	IP67C-AHT	
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VCC3_3

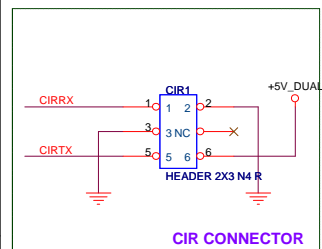
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1	SRN1 4.7K 8P4R 0402
2	DTR1# JP4
3	SOUT1 JP3
4	RTS1# JP2
5	PCIRSTIN#
6	PCIRST1#
7	PCIRST2#
8	SR4 4.7K 0402
9	SR5 1K 0402 / NI
10	SR20 1K 0402
11	SR8 1K 0402
12	SR9 4.7K 0402 / NI
13	SIO PWRGD 30
14	SIO PWRGD 150
15	FRAME N



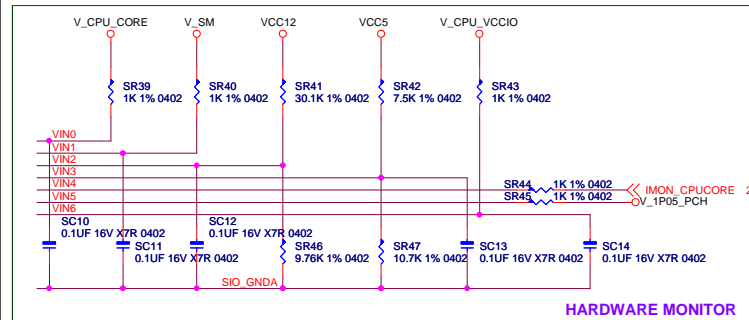
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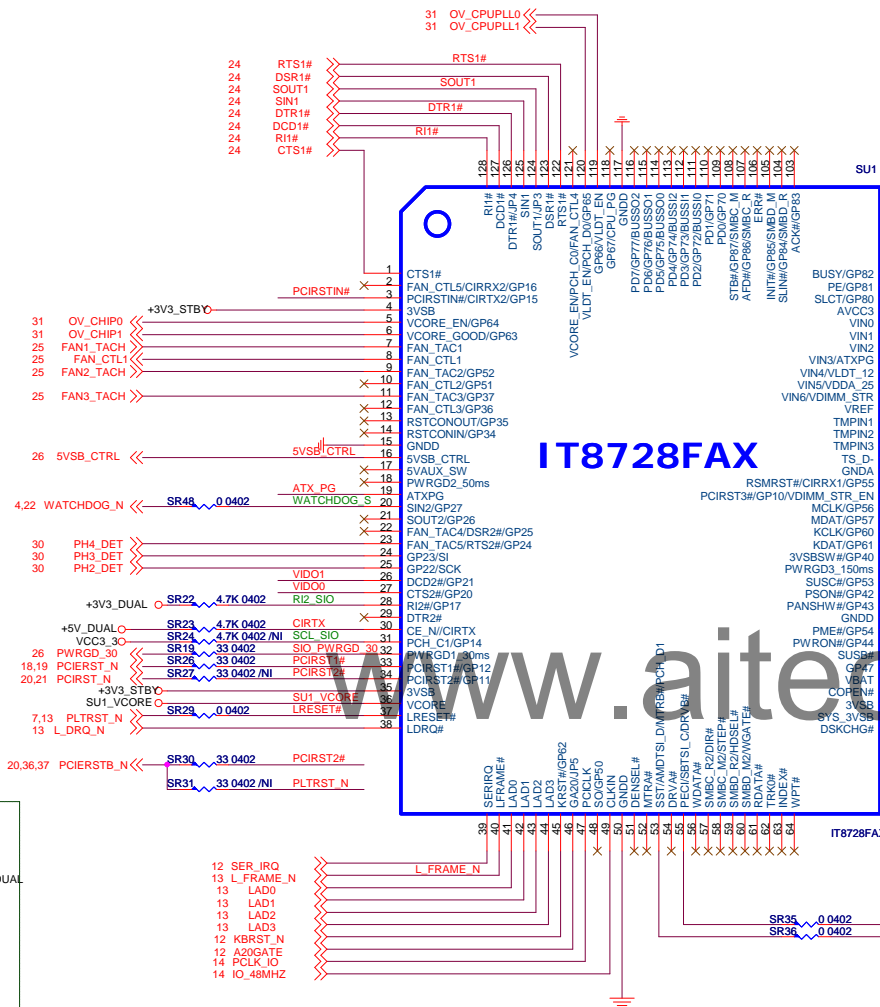
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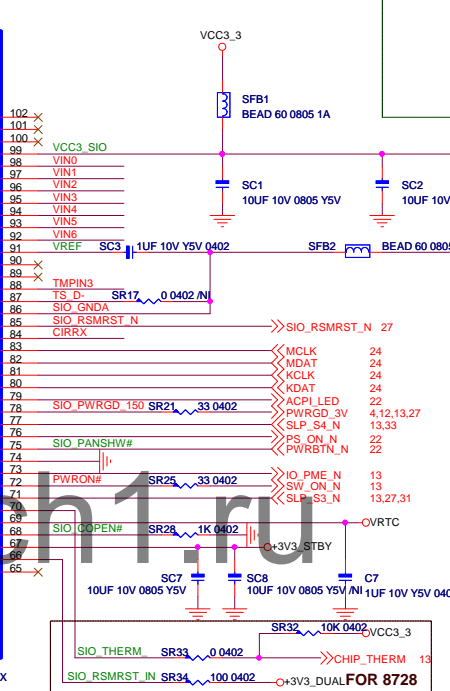
CIR CONNECTOR



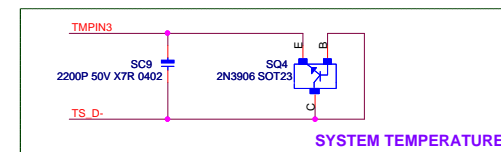
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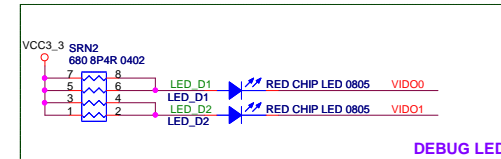
IT8728FAX



LED_D2	LED_D1	MESSAGE
OFF	OFF	ABNORMAL
OFF	ON	MEMORY ERROR
ON	OFF	VGA ERROR
ON	ON	NORMAL



SYSTEM TEMPERATURE



DEBUG LED

ITE8721		ITE8728
PIN121	FAN_CTL4/VID_TURBO	VCORE_EN/PCH+C0
PIN120	VDDA_EN	VLDT_EN/PCH+D0
PIN19	GP30	ATXPg
PIN31	GP14	PCH_C1
PIN53	SST/AMDSI_D/PECI_AVA/MTRB#/PCH_D	SST/AMDSI_D/MTRB#/PCH_C
PIN55	PECI/AMDSI_C/DRVB#/PCH_C	PECI/AMDSI_C/DRVB#
PIN66	GP47	SYS_3VSB
PIN70	SYS_3VSB	GP47
PIN95	VIN3/ATXPg	VIN2(VCC5)
PIN96	VIN2	VIN1(VCC12)
PIN97	VIN1(VCC5)	VIN1/VDIMM_STR(1.5V)
PIN98	VIN0(VCC12)	VIN0/VCORE(1.1V)

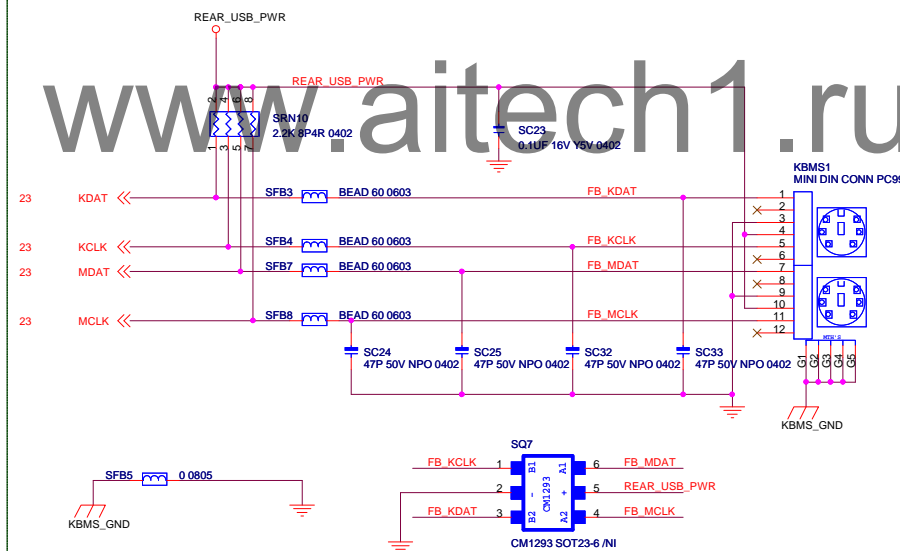
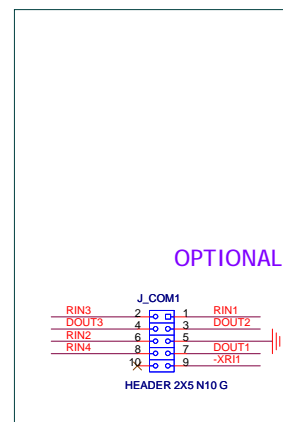
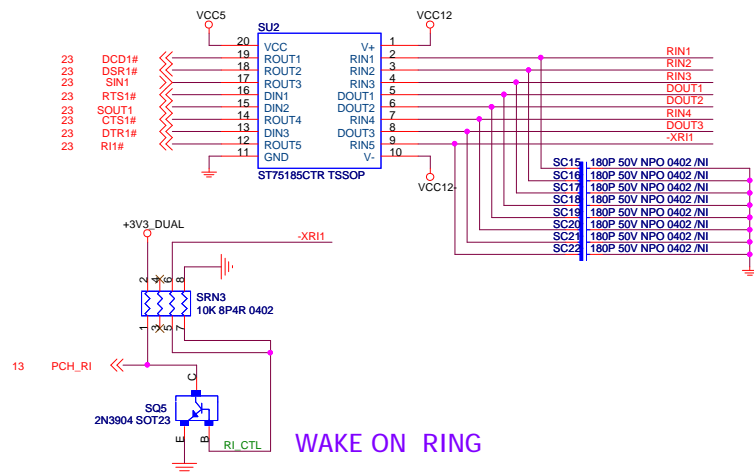
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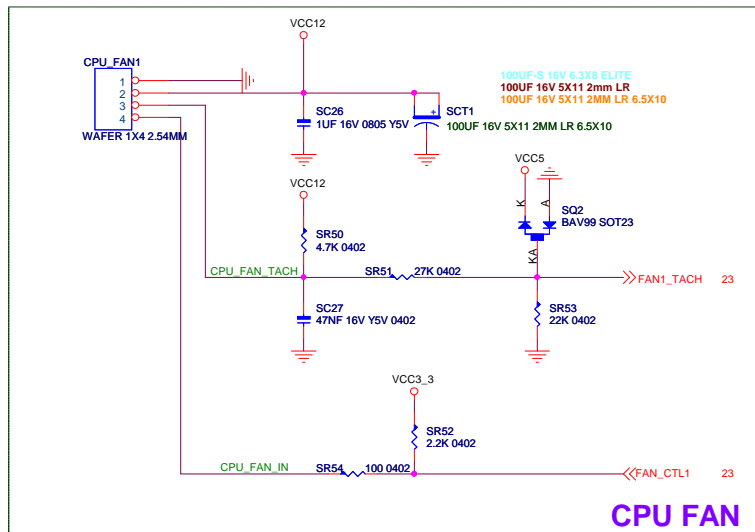


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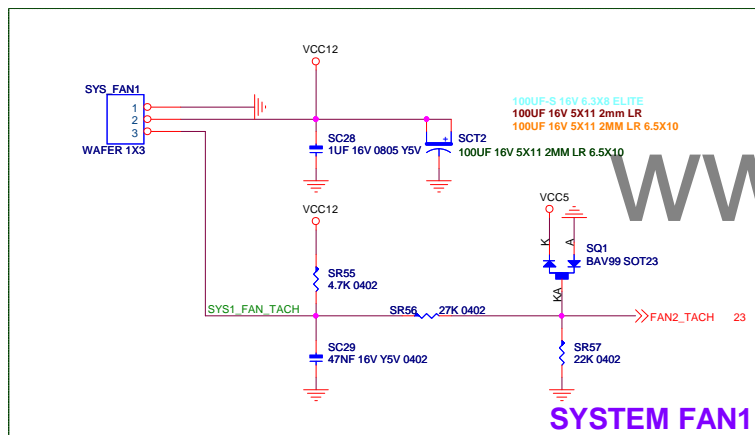
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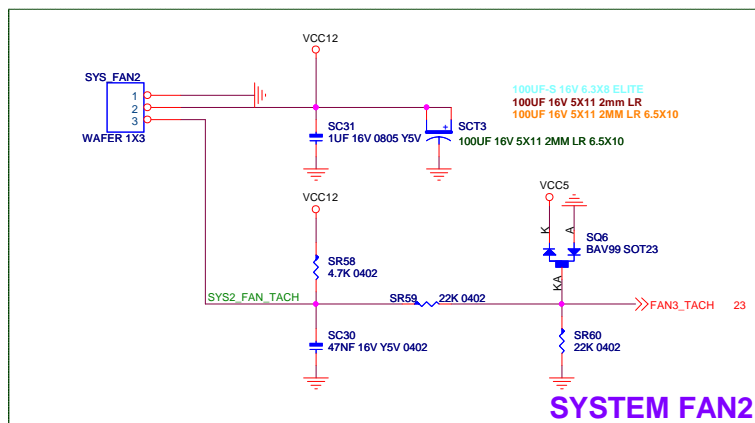
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CPU FAN



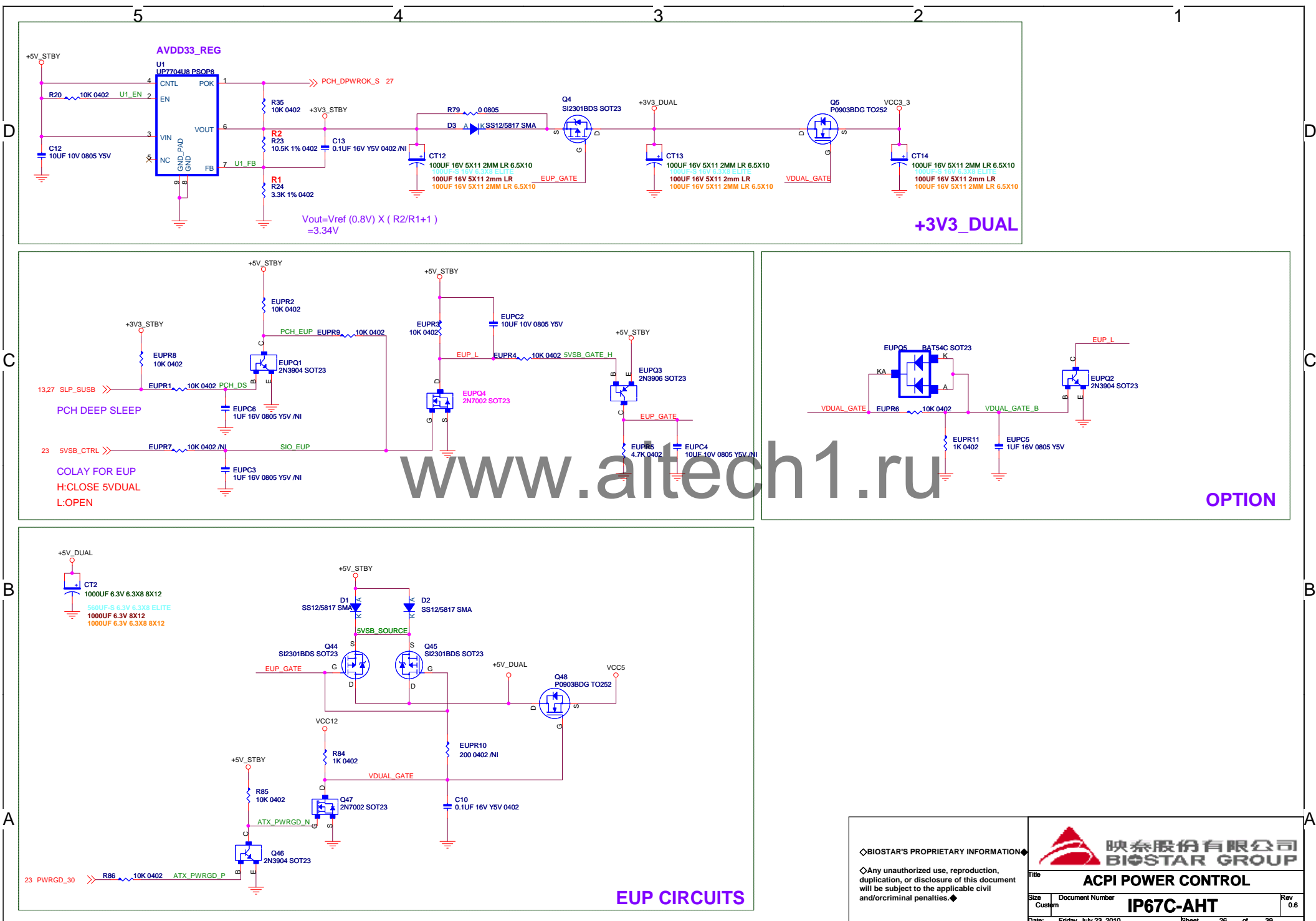
SYSTEM FAN1



SYSTEM FAN2

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Title		HW MONITOR/FAN CONTROL	
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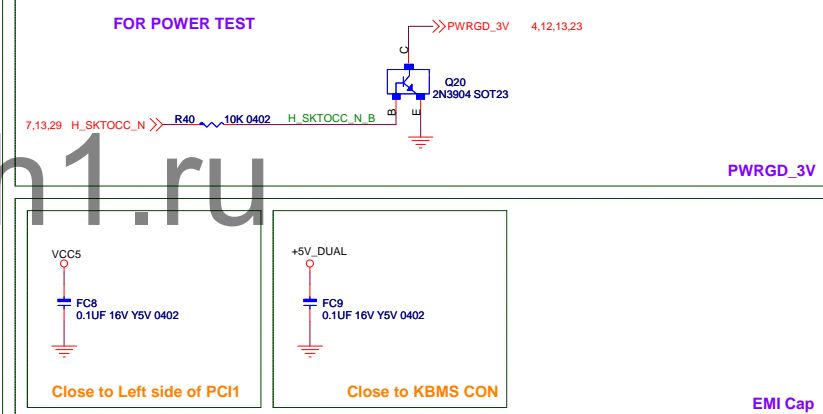
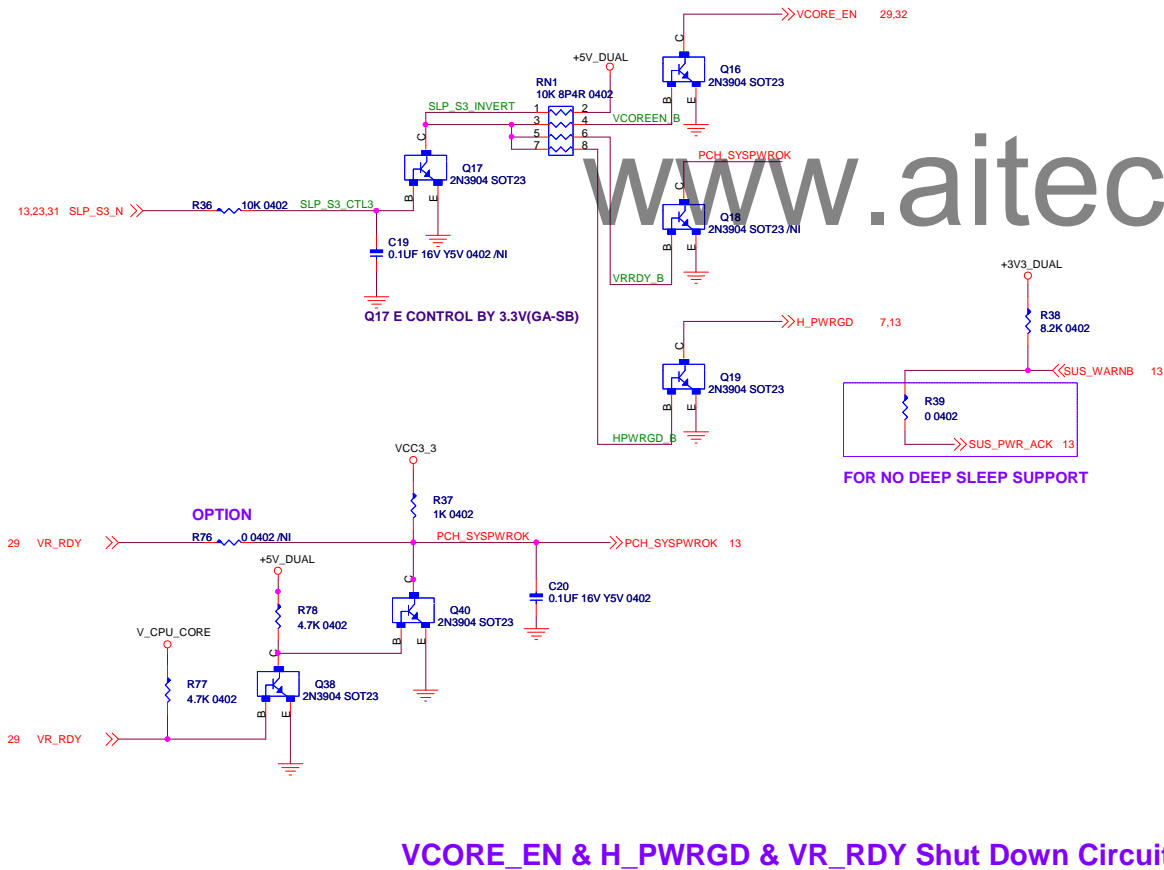
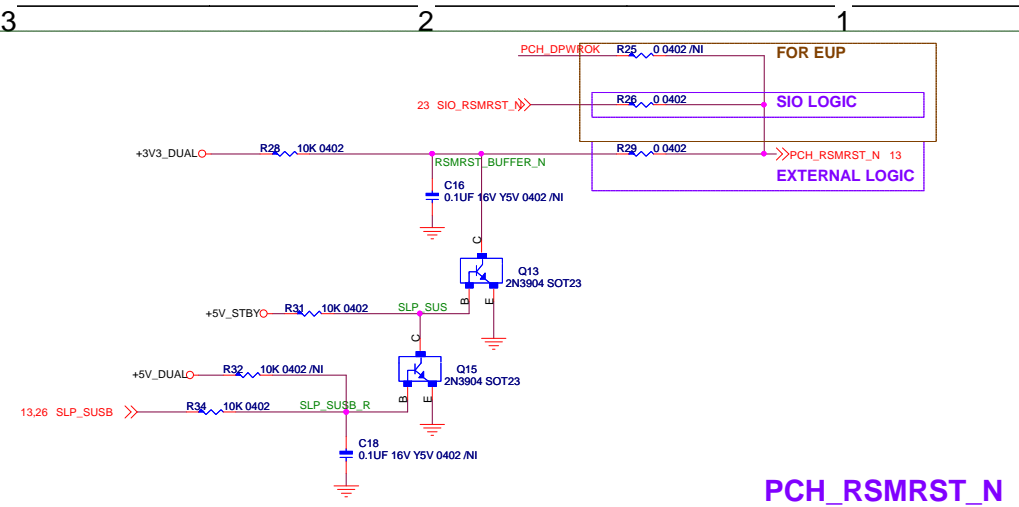
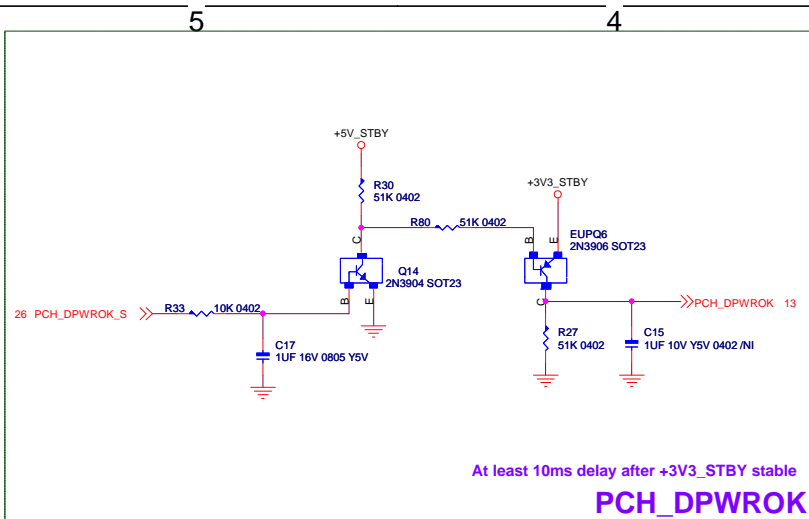


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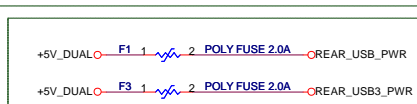
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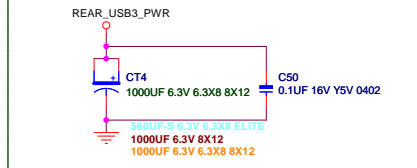
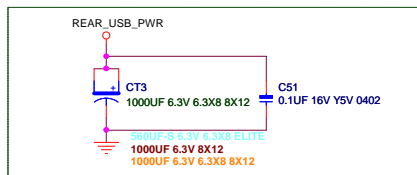
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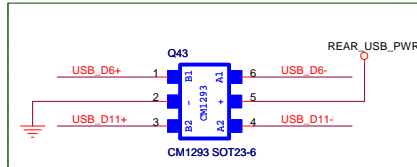
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Date Thursday, July 22, 2010		Document Number IP67C-AHT	
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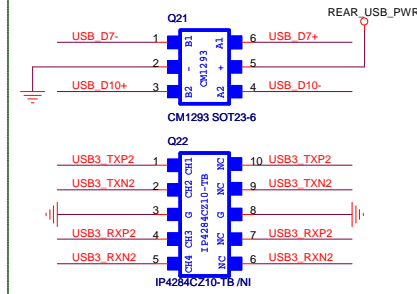
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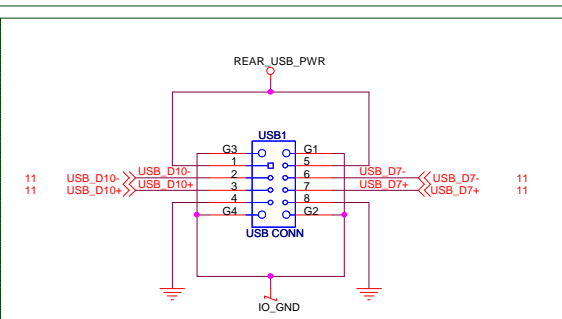
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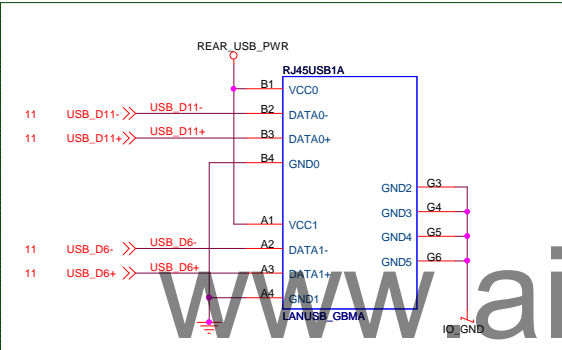
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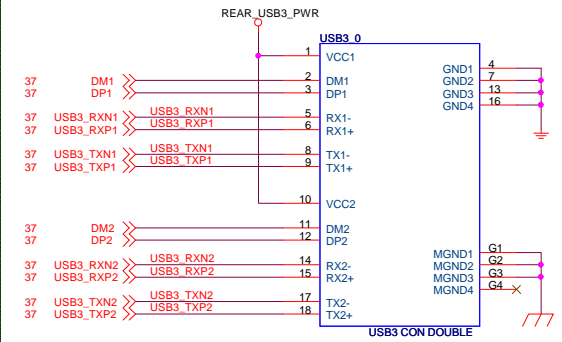
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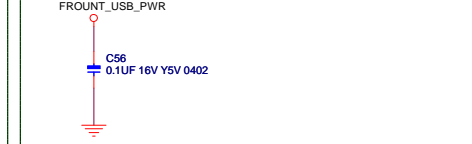
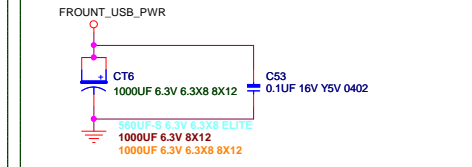
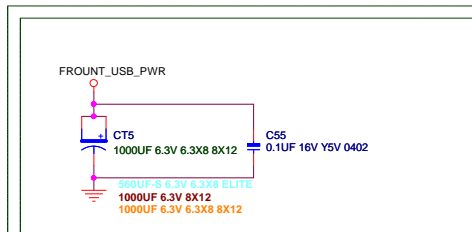
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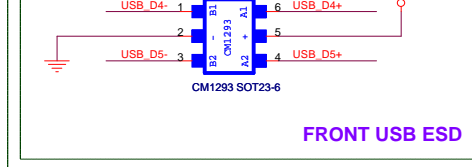
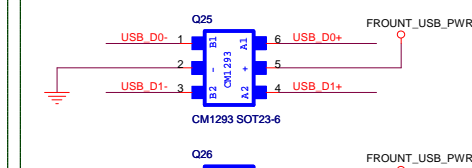
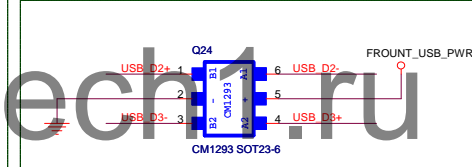
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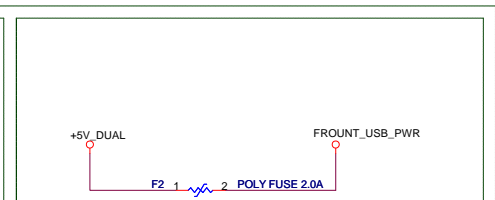
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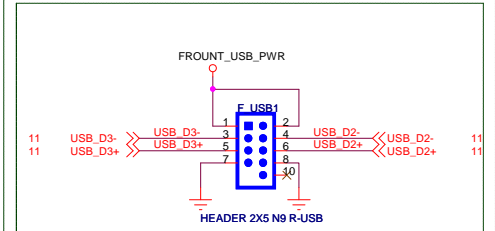
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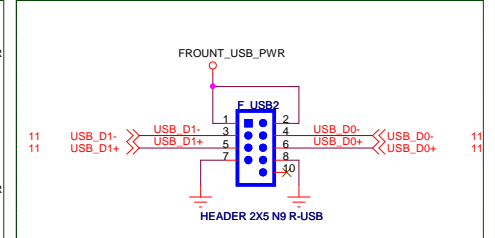
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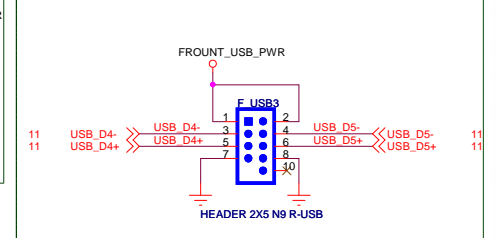
FRONT USB POWER



FRONT USB CONNECTOR1



FRONT USB CONNECTOR2

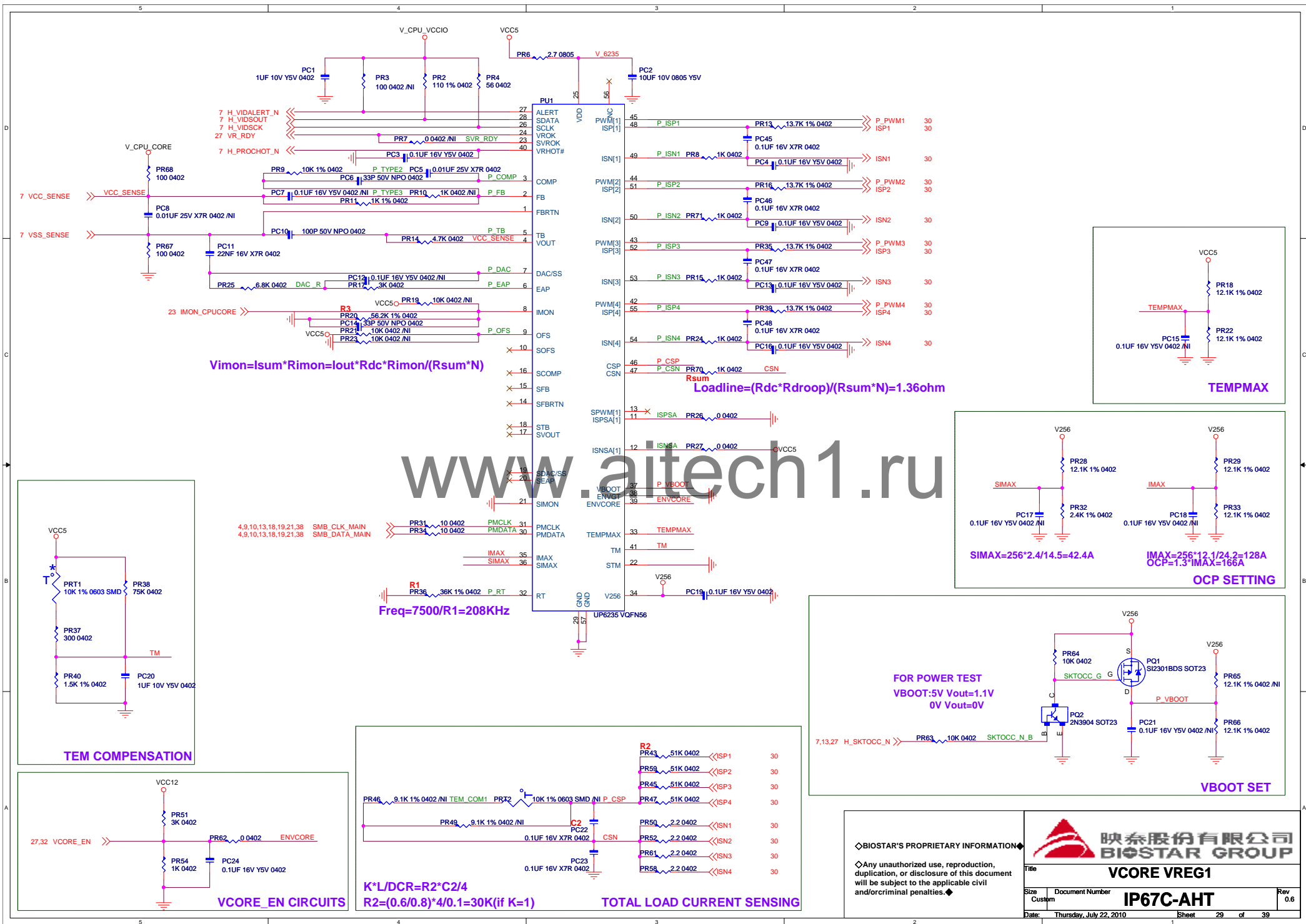


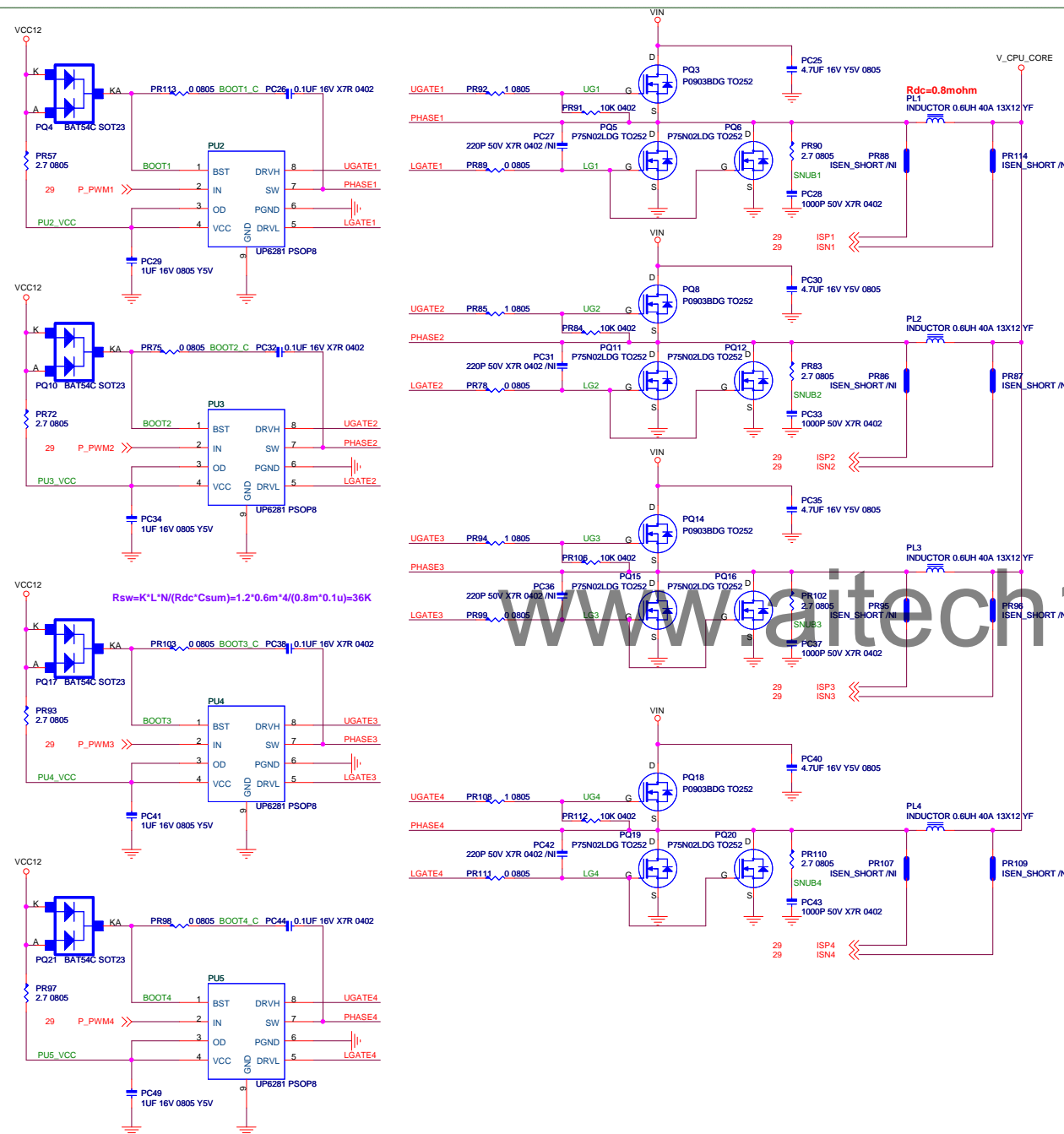
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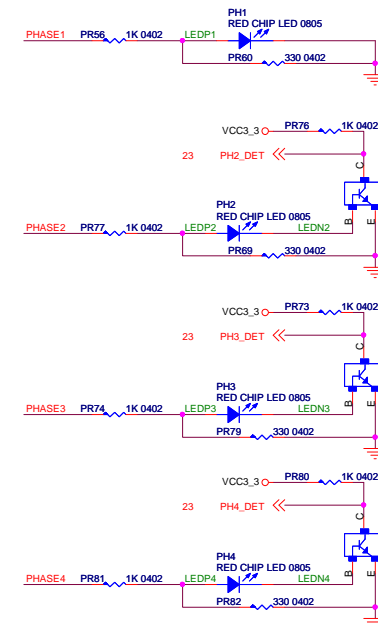
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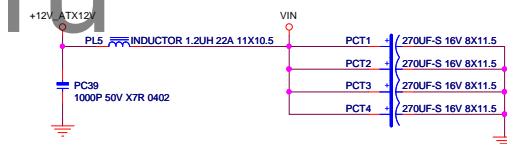




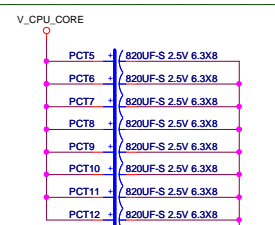
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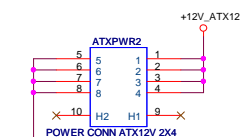
PHASE LED



VIN CAPS



V_CPU_CORE CAPS

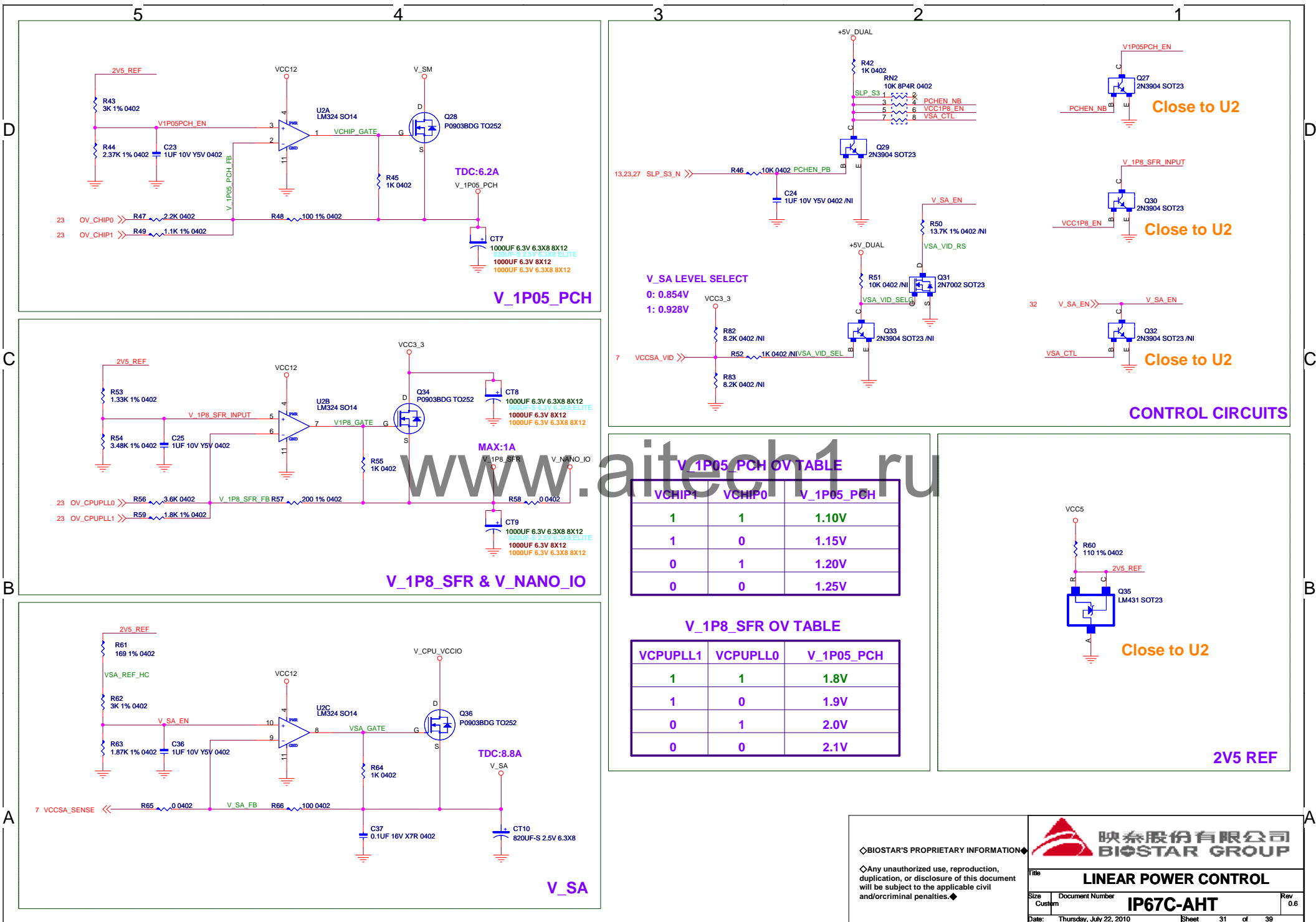


8PIN CON

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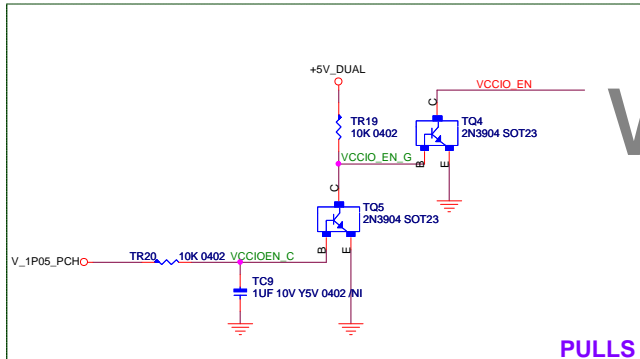
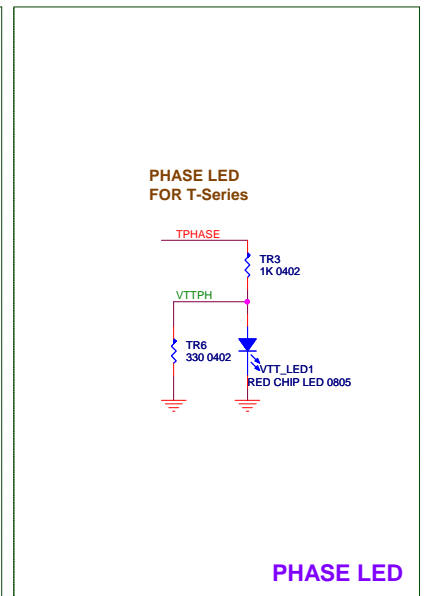
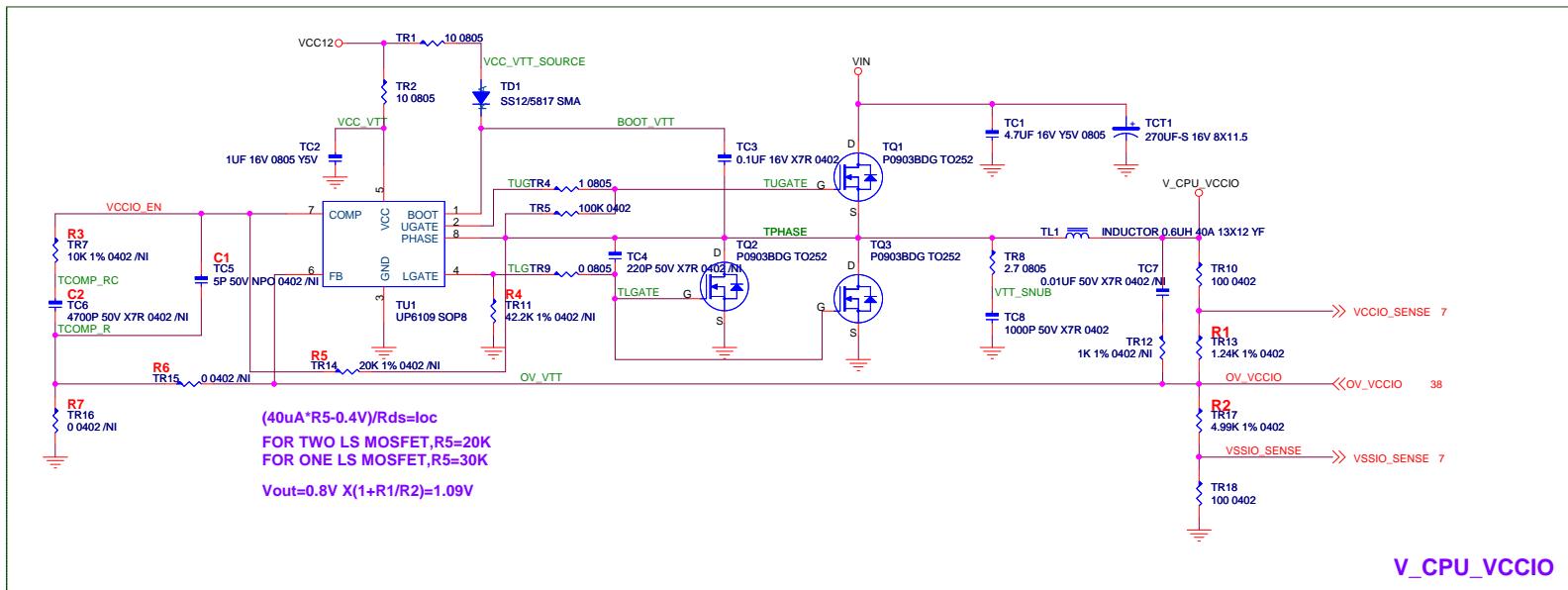
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LINEAR POWER CONTROL

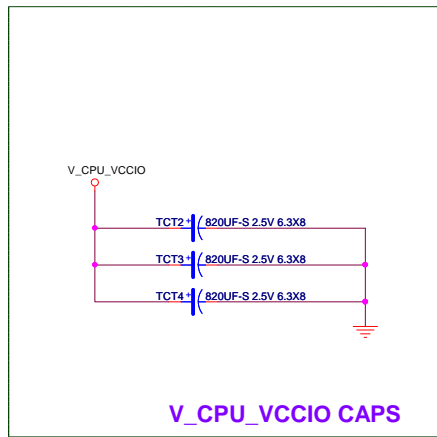
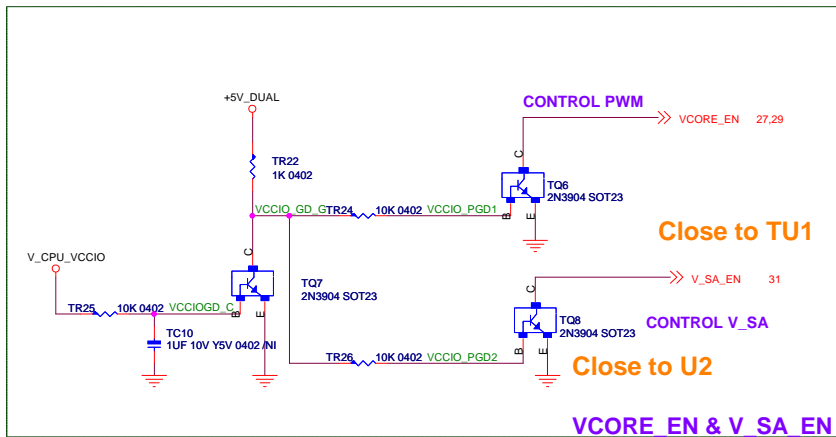
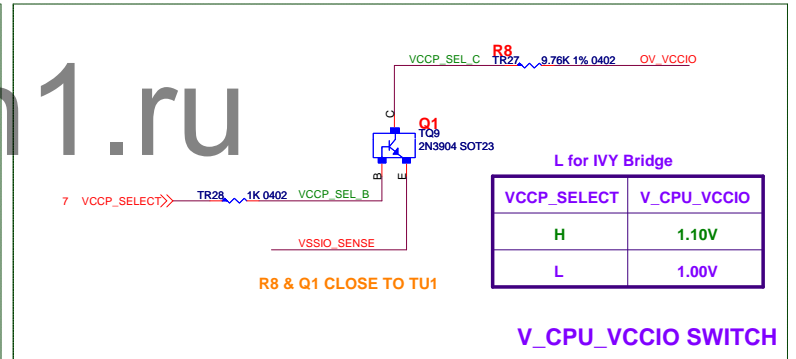
IP67C-AHT

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R4	NI	26.1K 1% 0402	NI
R5	20K 0402	NI	NI
R6	NI	0 0402	NI
R7	NI	NI	NI
C1	NI	5P 50V NPO 0402	NI
C2	NI	4700P 50V X7R 0402	NI



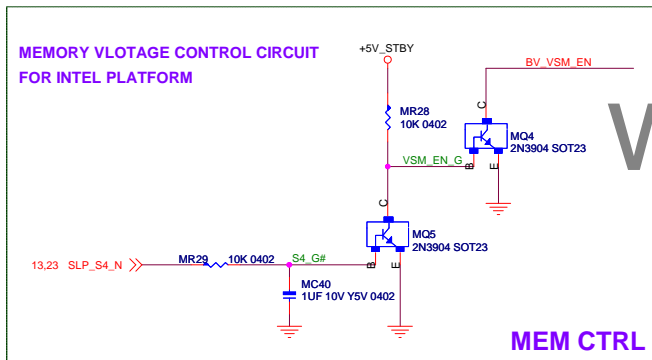
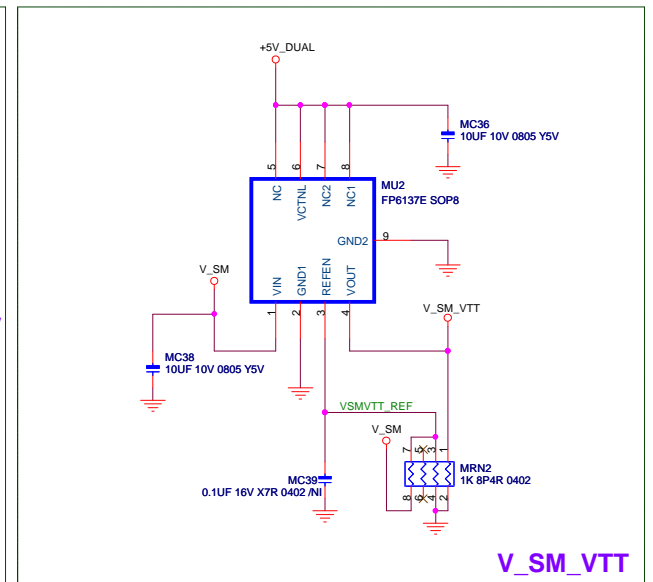
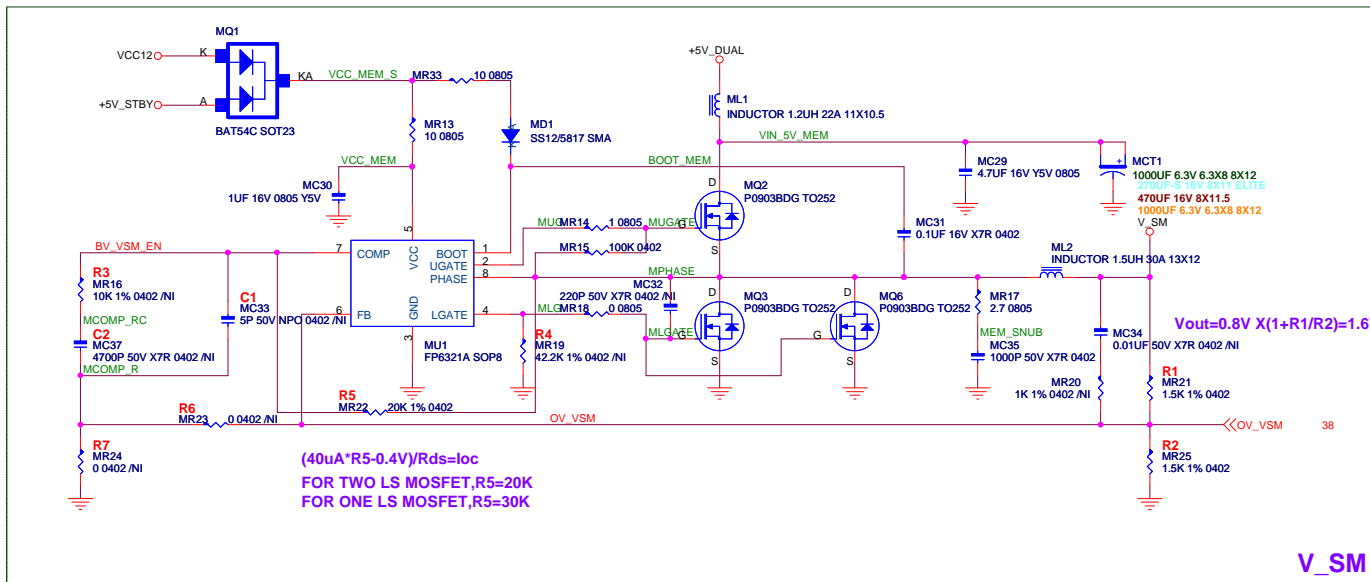
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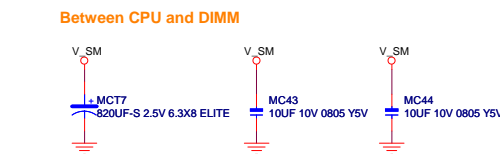
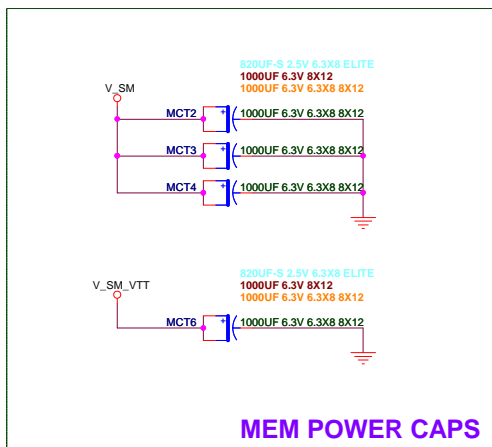
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Title: VTT DC-DC Converter
IP67C-AHT

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	FP6321A	UP6101B	FP6327
R3	NI	13.7K 1% 0402	NI
R4	NI	26.1K 1% 0402	NI
R5	20K 0402	NI	NI
R6	NI	0 0402	NI
R7	NI	NI	NI
C1	NI	5P 50V NPO 0402	NI
C2	NI	4700P 50V X7R 0402	NI



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Title
VSM DC-DC Conver

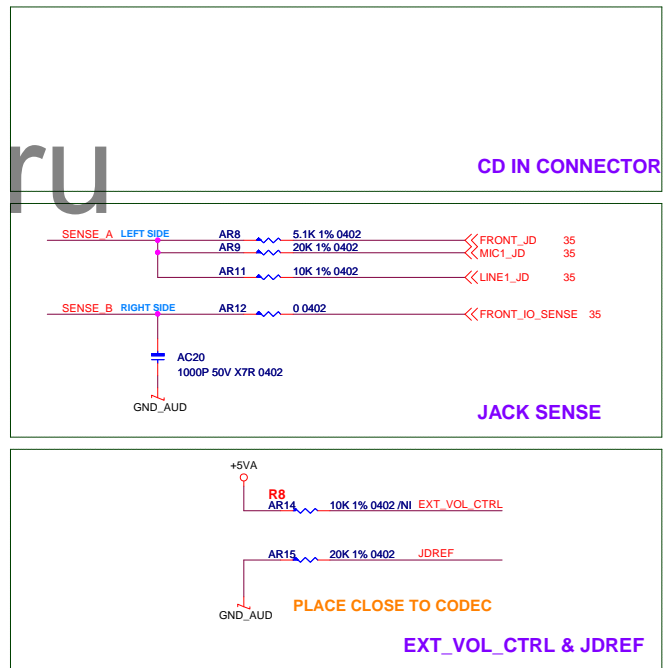
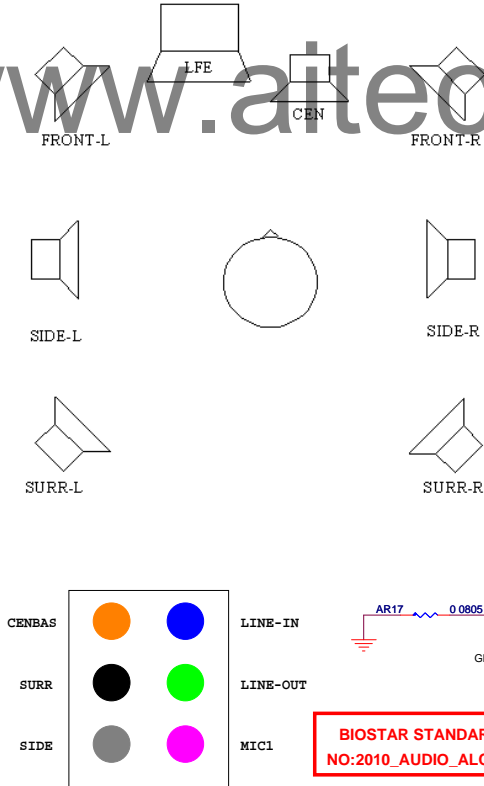
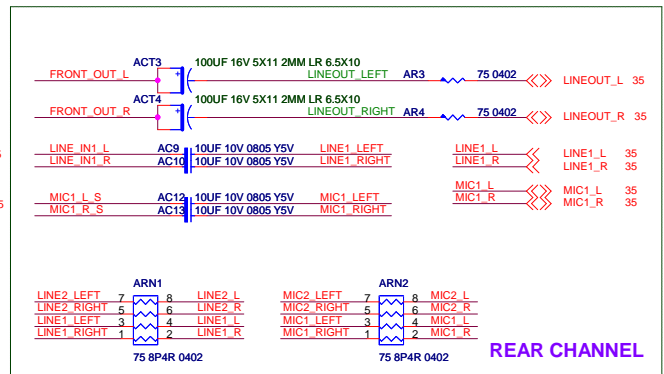
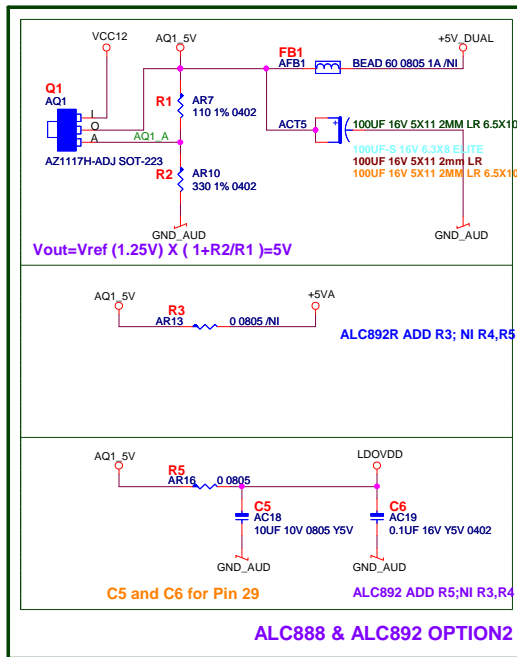
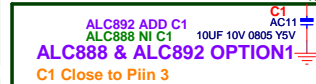
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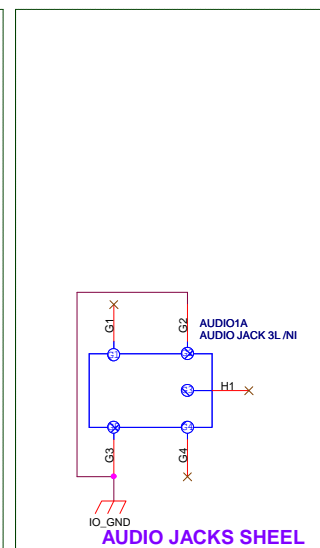
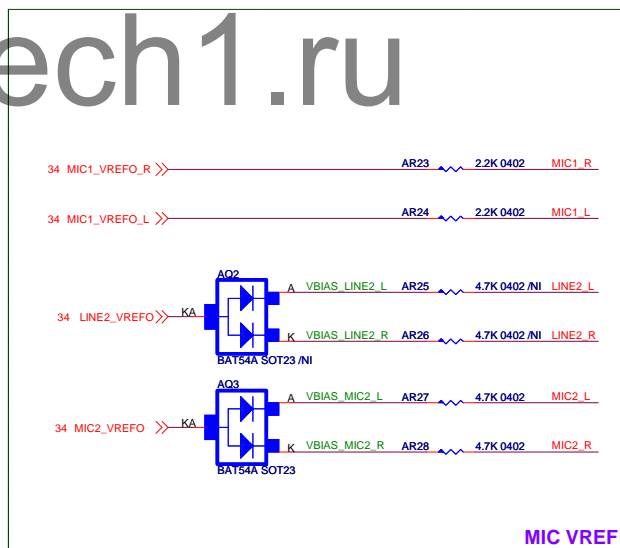
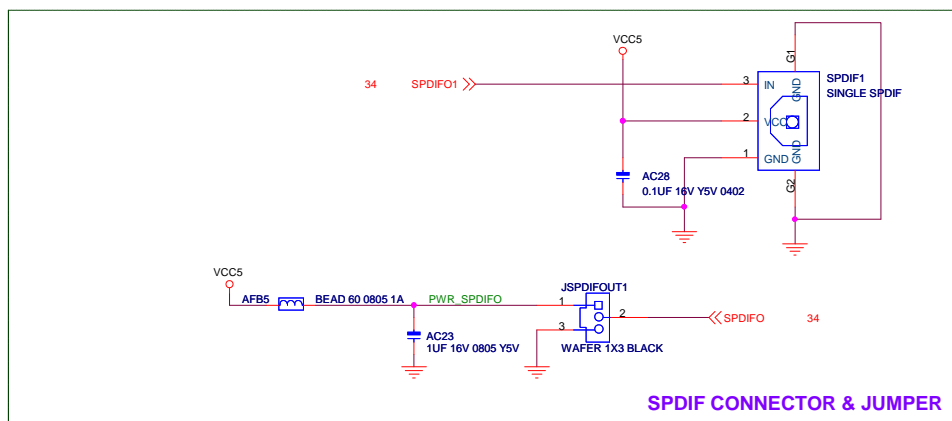
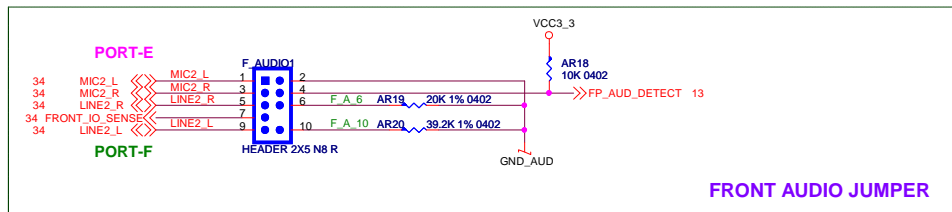
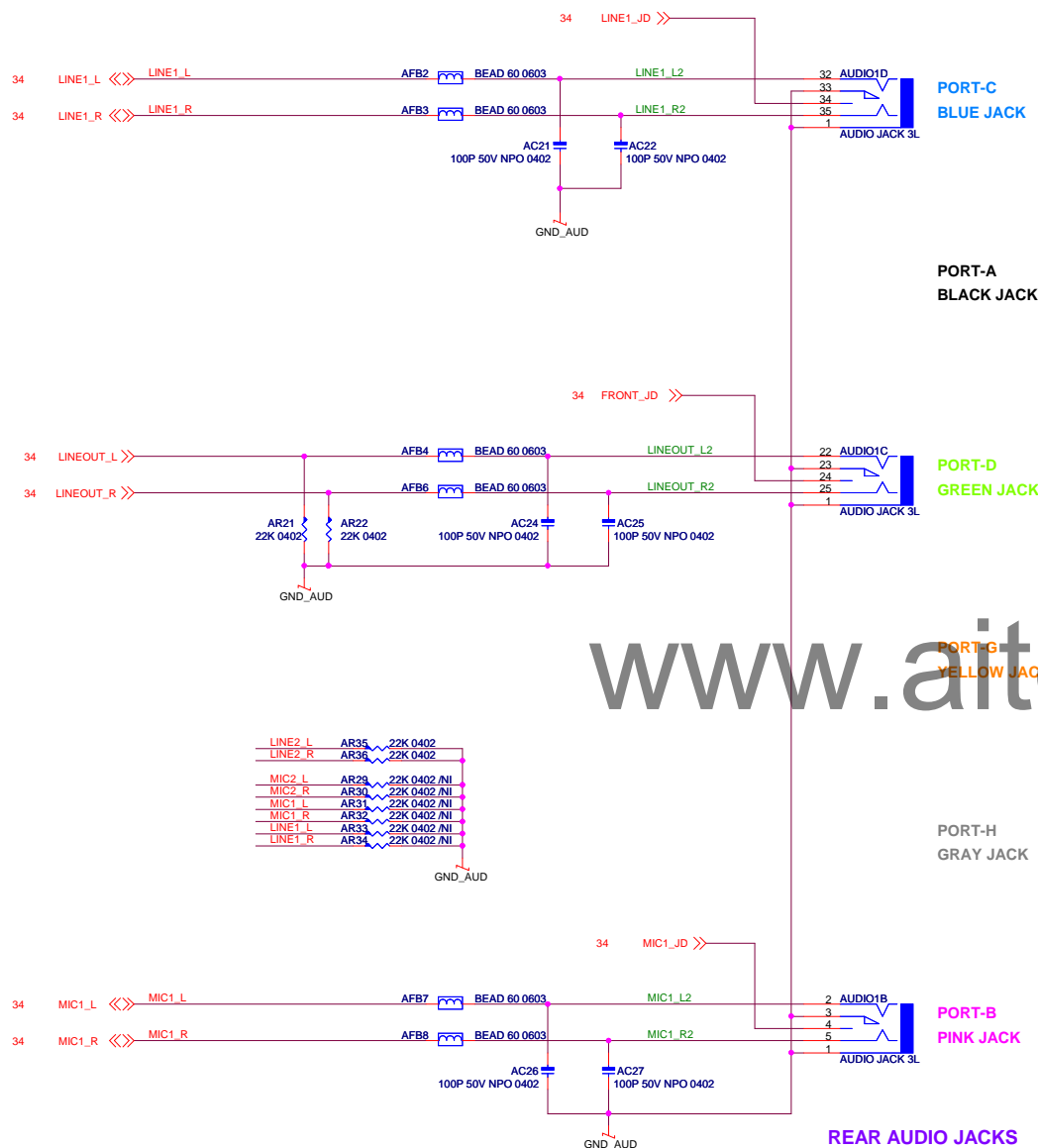
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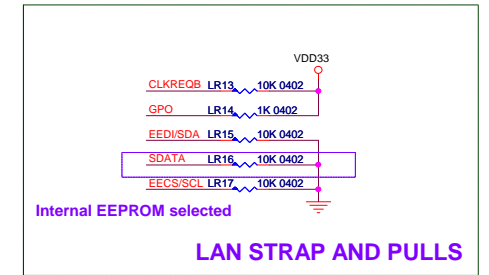
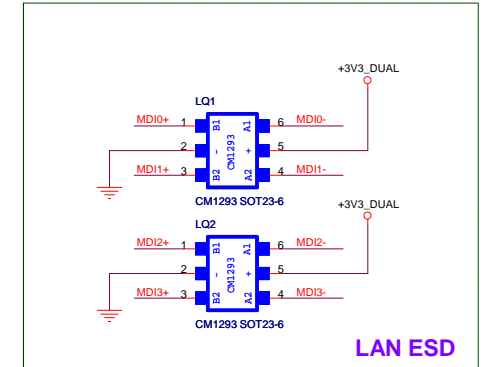
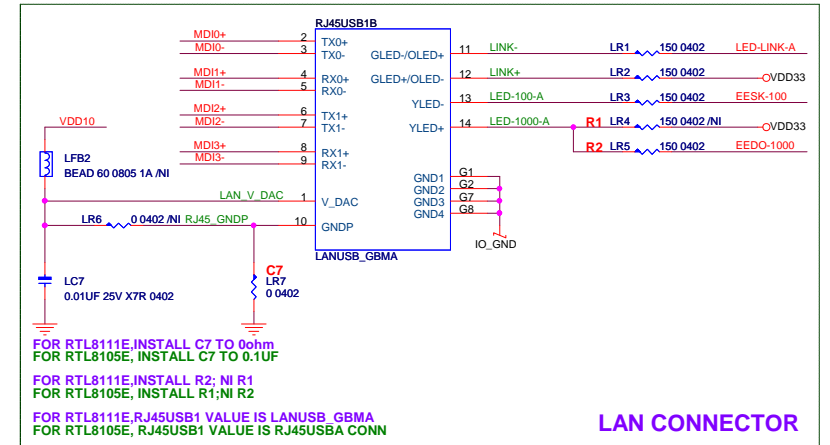
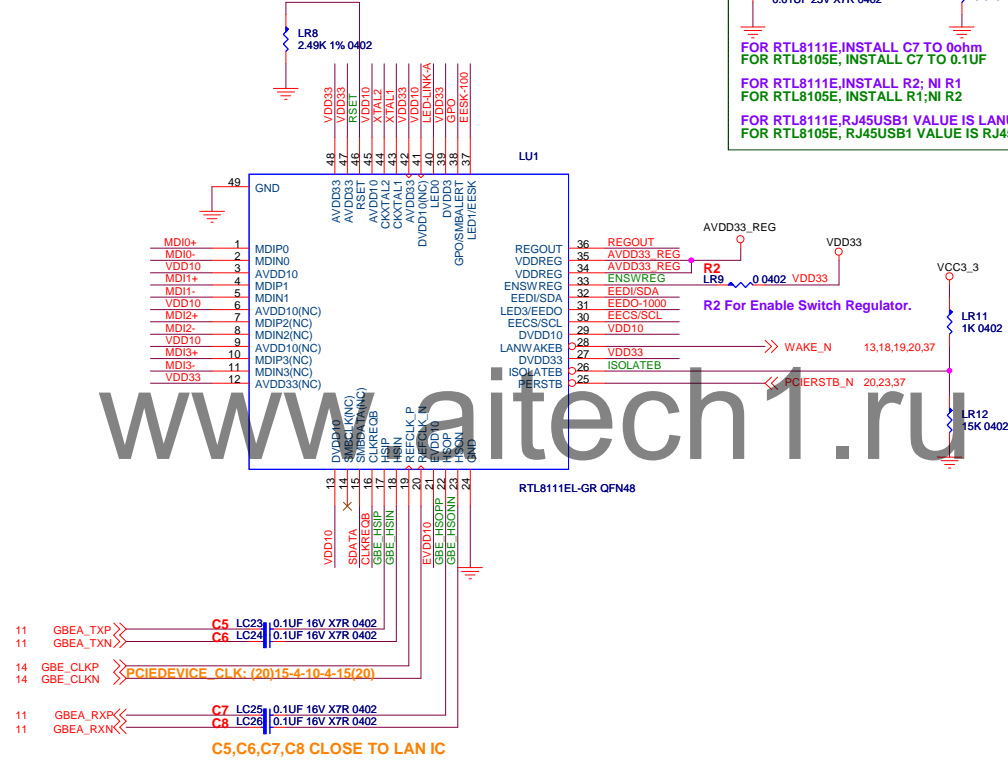
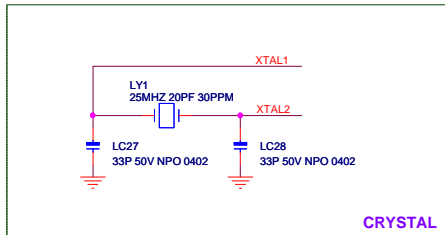
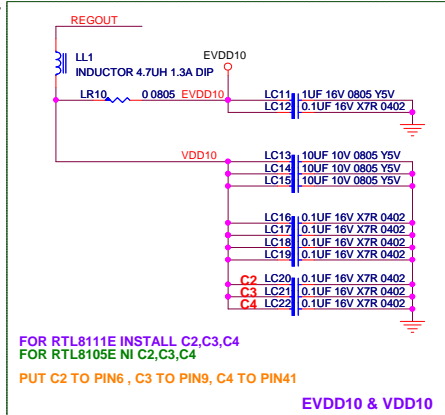
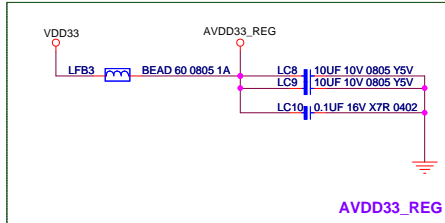
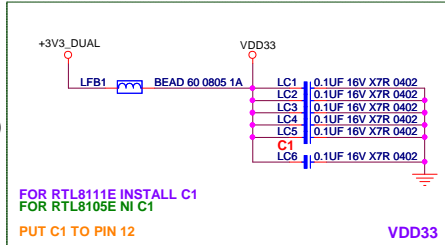
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AUDIO CONNECTOR

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LAN PART: L+Reference



COMPONENT CONTRAST LIST

LAN PARTS	C1	C2	C3	C4	C7	R1	R2	R3	R4	RJ45 CONN
RTL8111E	O	O	O	O	0ohm	X	X	O	O	LANUSB_GBMA
RTL8105E	X	X	X	X	0.1uF	O	O	X	X	RJ45USBA CONN

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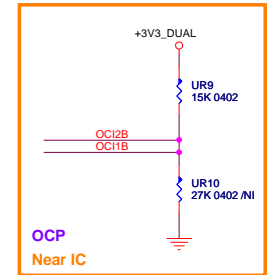
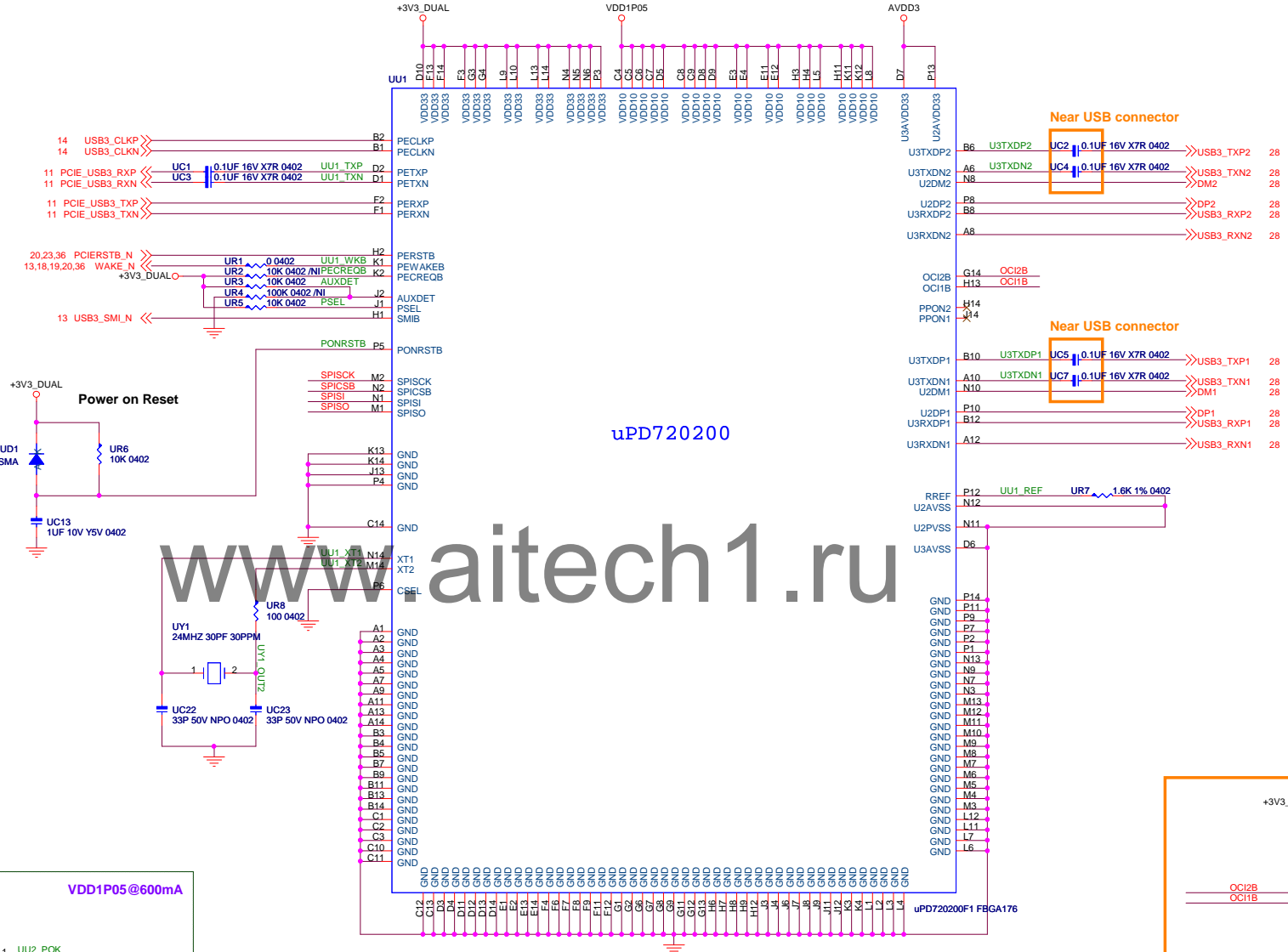
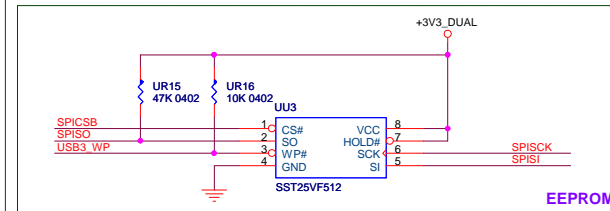
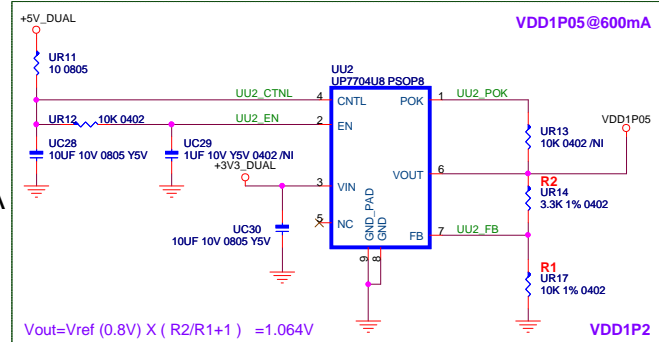
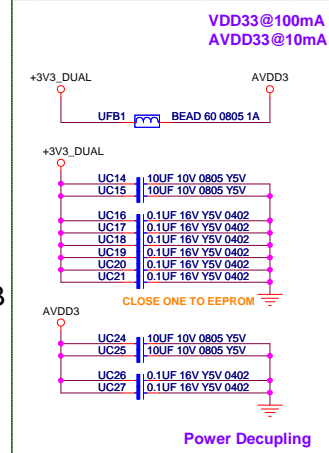
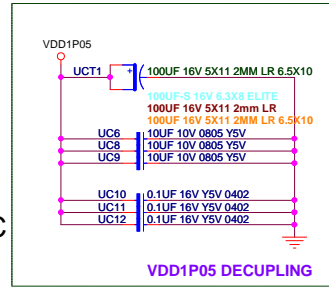
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EX-USB PART: U+Reference

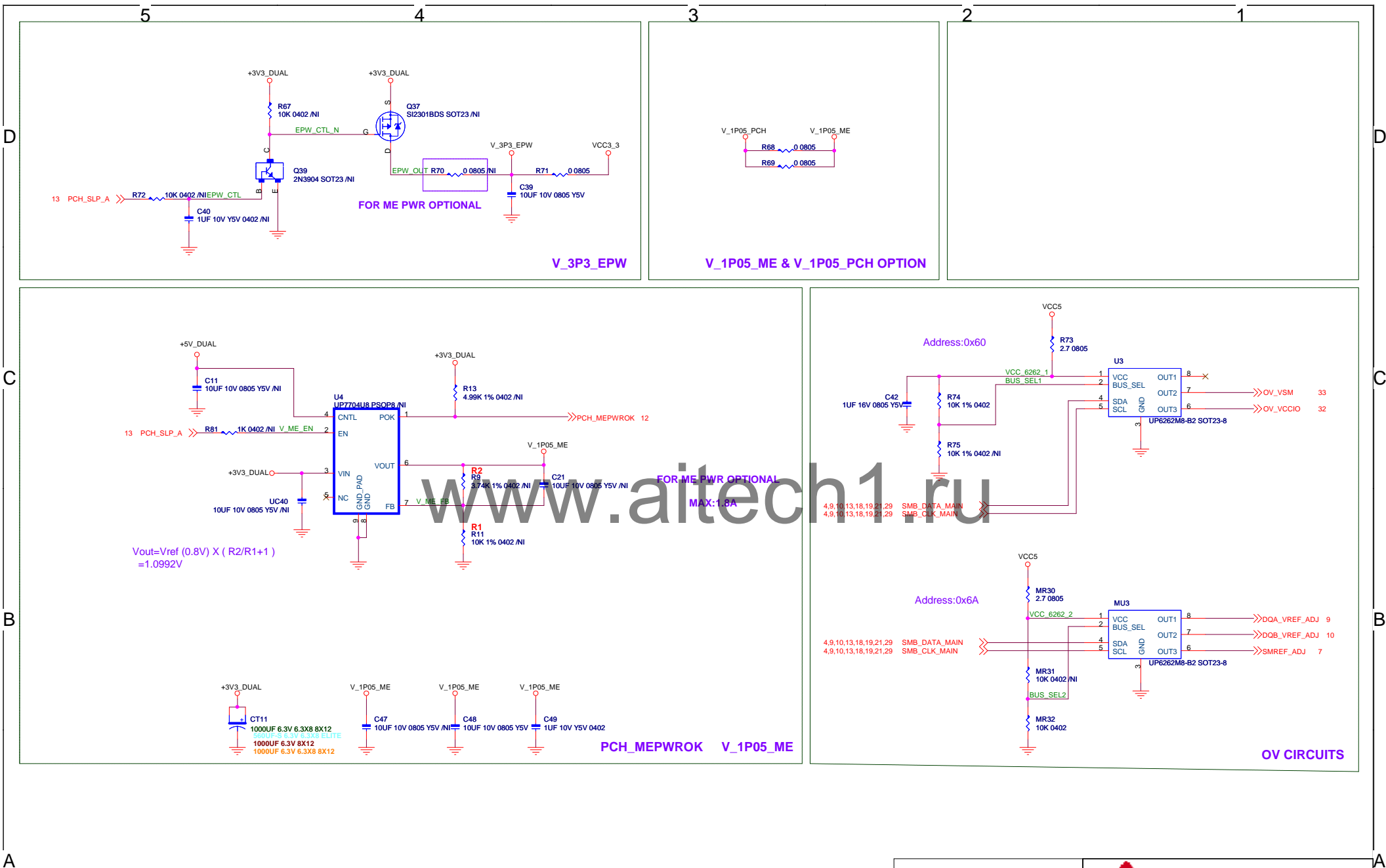


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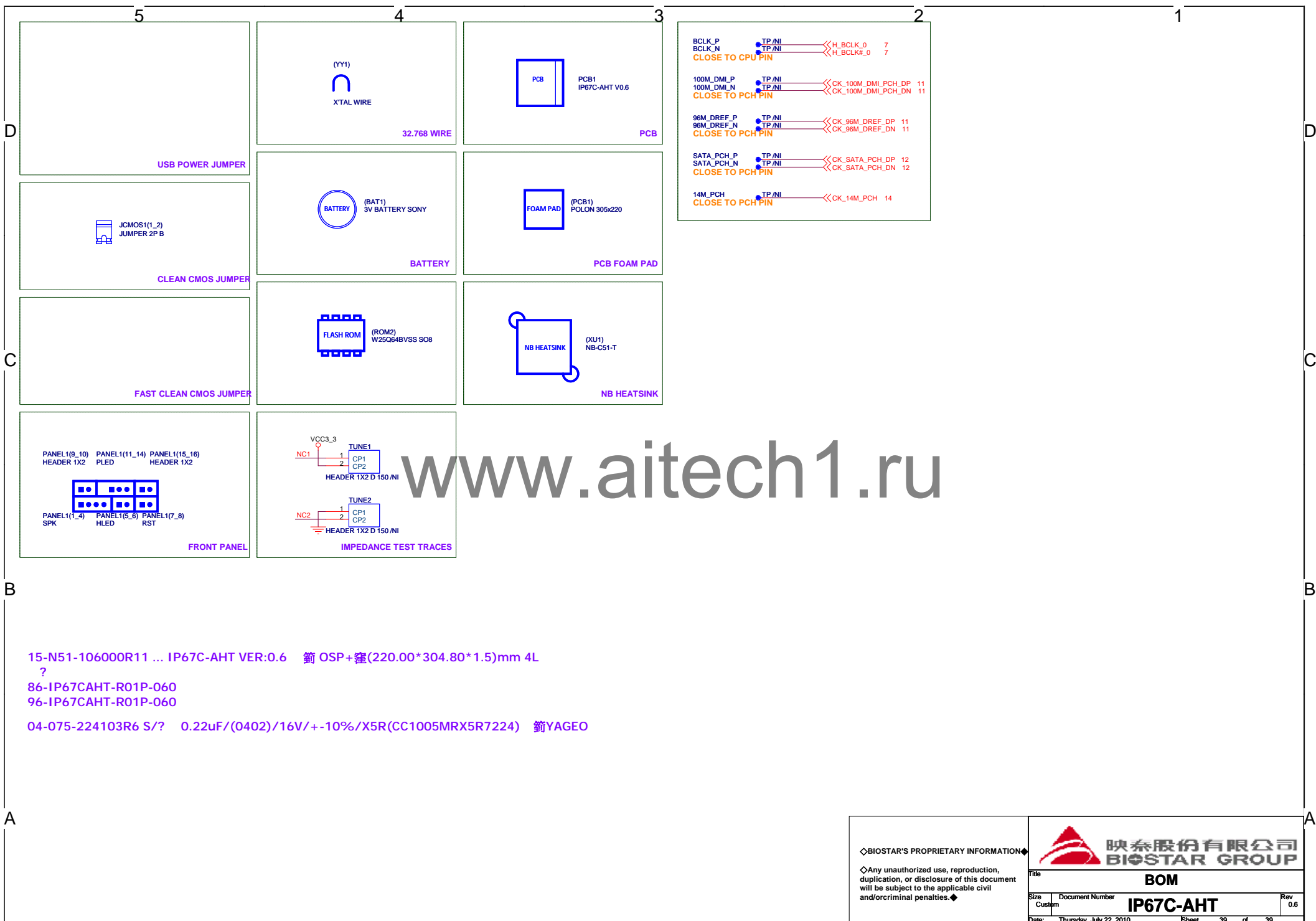


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96-IP67CAHT-R01P-060
04-075-224103R6 S/? 0.22uF/(0402)/16V/+ -10%/X5R(CC1005MRX5R7224) 箭YAGEO

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