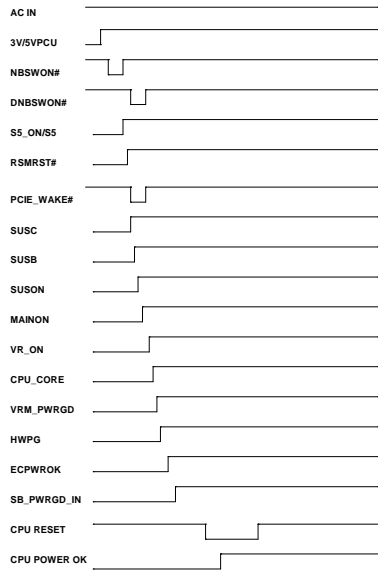


[illegible]

### Power Sequence



## Hudson M1 SM BUS

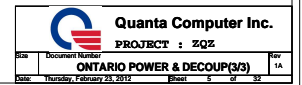
SB820 SMBUS	Pin NO.	SMBUS Function Define
PCLK_SMB PDAT_SMB (+3V)	AD22 AE22	DDR / RFID
SB_SMBCLK1 SB_SMBDATA1 (+3V_S5)	F5 F4	not used
SB_SCLK2 SB_SDAT2 (+3V_S5)	D25 F23	not used
SB_SCLK3 SB_SDAT3 (+3V_S5)	B26 E26	not used
SB_SCLK3 SB_SDAT3 (+3V_S5)	B26 E26	not used

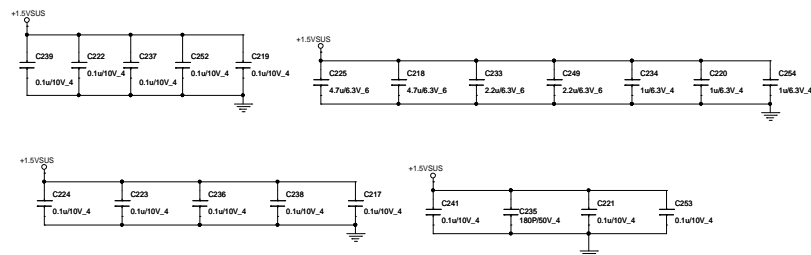
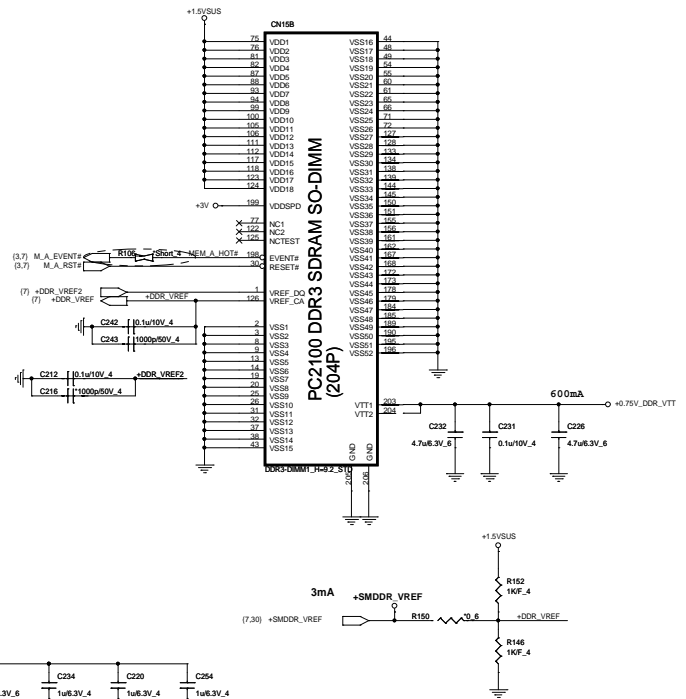
## KBC(EC) SM BUS


KBC SMBUS	Pin NO.	SMBUS Function Define
MBCLK MBDATA (+3VPCU)	110 111	Battery
MBCLK_THRM MBDATA_THRM (+3VPCU)	115 116	Thermal

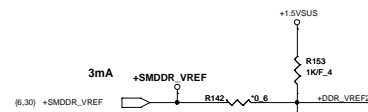
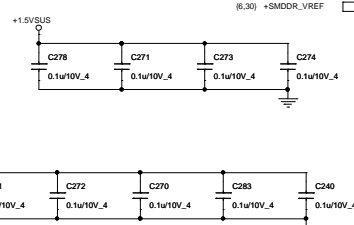
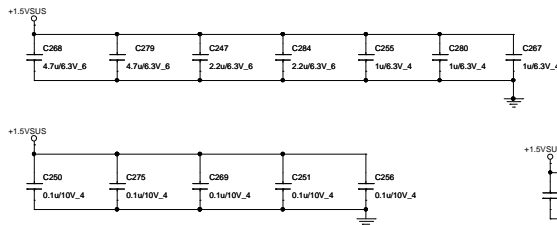
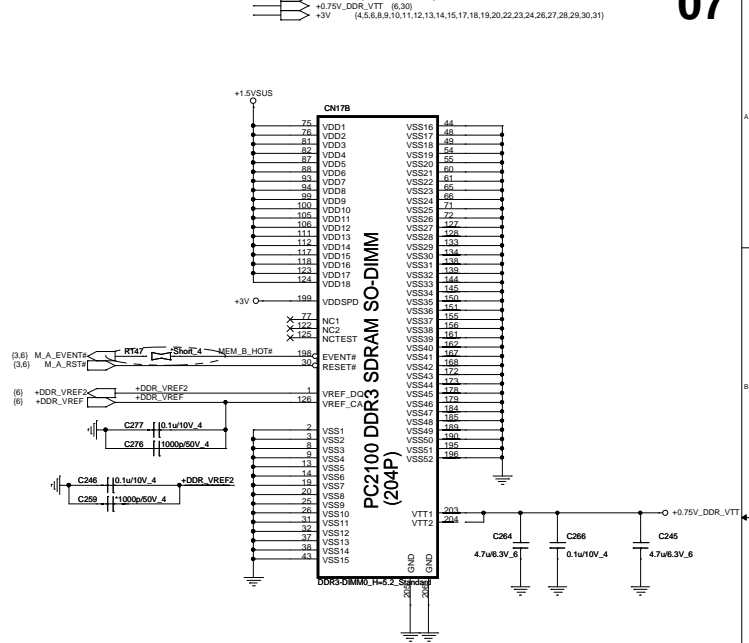
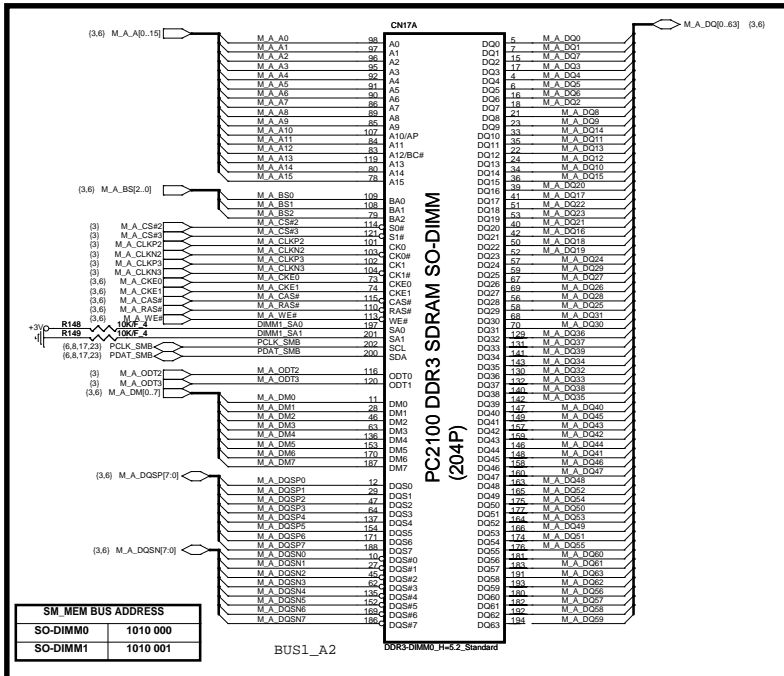






[illegible]

		<b>Quanta Computer Inc.</b> <b>PROJECT : ZQZ</b>	
Size	Document Number	<b>DDR3 SO-DIMM (STD)</b>	Rev 1A
Date:	Thursday, February 23, 2012	Sheet	6 of 32



+3V\_5S  
NC, no install by default

R61 2.2K\_4 FCH\_TES19  
R65 2.2K\_4 FCH\_TES12  
R66 2.2K\_4 FCH\_TES12

remove pull hi ( chip internal  
have pull hi )

+3V\_5S  
R561 2.2K\_4 FCH\_K8B  
R562 2.2K\_4 FCH\_TES12  
R563 10K\_4 GP0205

For Dimm, WLAN, TP

+3V\_5S  
R63 2.2K\_4 VSA\_PD  
R64 10K\_4 VSA\_T  
R65 2.2K\_4 VSA\_T  
R66 10K\_4 VSA\_T  
R67 10K\_4 VSA\_T

+3V\_5S  
R68 10K\_4 FCH\_THERMTRIP  
R69 10K\_4 FCH\_T  
R70 10K\_4 FCH\_T  
R71 10K\_4 FCH\_T  
R72 10K\_4 FCH\_T

+3V\_5S  
R73 10K\_4 FCH\_THERMTRIP  
R74 10K\_4 FCH\_T  
R75 10K\_4 FCH\_T  
R76 10K\_4 FCH\_T  
R77 10K\_4 FCH\_T

+3V\_5S  
R78 10K\_4 FCH\_THERMTRIP  
R79 10K\_4 FCH\_T  
R80 10K\_4 FCH\_T  
R81 10K\_4 FCH\_T  
R82 10K\_4 FCH\_T

+3V\_5S  
R83 10K\_4 FCH\_THERMTRIP  
R84 10K\_4 FCH\_T  
R85 10K\_4 FCH\_T  
R86 10K\_4 FCH\_T  
R87 10K\_4 FCH\_T

+3V\_5S  
R88 10K\_4 FCH\_THERMTRIP  
R89 10K\_4 FCH\_T  
R90 10K\_4 FCH\_T  
R91 10K\_4 FCH\_T  
R92 10K\_4 FCH\_T

+3V\_5S  
R93 10K\_4 FCH\_THERMTRIP  
R94 10K\_4 FCH\_T  
R95 10K\_4 FCH\_T  
R96 10K\_4 FCH\_T  
R97 10K\_4 FCH\_T

+3V\_5S  
R98 10K\_4 FCH\_THERMTRIP  
R99 10K\_4 FCH\_T  
R100 10K\_4 FCH\_T  
R101 10K\_4 FCH\_T  
R102 10K\_4 FCH\_T

+3V\_5S  
R103 10K\_4 FCH\_THERMTRIP  
R104 10K\_4 FCH\_T  
R105 10K\_4 FCH\_T  
R106 10K\_4 FCH\_T  
R107 10K\_4 FCH\_T

+3V\_5S  
R108 10K\_4 FCH\_THERMTRIP  
R109 10K\_4 FCH\_T  
R110 10K\_4 FCH\_T  
R111 10K\_4 FCH\_T  
R112 10K\_4 FCH\_T

+3V\_5S  
R113 10K\_4 FCH\_THERMTRIP  
R114 10K\_4 FCH\_T  
R115 10K\_4 FCH\_T  
R116 10K\_4 FCH\_T  
R117 10K\_4 FCH\_T

+3V\_5S  
R118 10K\_4 FCH\_THERMTRIP  
R119 10K\_4 FCH\_T  
R120 10K\_4 FCH\_T  
R121 10K\_4 FCH\_T  
R122 10K\_4 FCH\_T

+3V\_5S  
R123 10K\_4 FCH\_THERMTRIP  
R124 10K\_4 FCH\_T  
R125 10K\_4 FCH\_T  
R126 10K\_4 FCH\_T  
R127 10K\_4 FCH\_T

+3V\_5S  
R128 10K\_4 FCH\_THERMTRIP  
R129 10K\_4 FCH\_T  
R130 10K\_4 FCH\_T  
R131 10K\_4 FCH\_T  
R132 10K\_4 FCH\_T

+3V\_5S  
R133 10K\_4 FCH\_THERMTRIP  
R134 10K\_4 FCH\_T  
R135 10K\_4 FCH\_T  
R136 10K\_4 FCH\_T  
R137 10K\_4 FCH\_T

+3V\_5S  
R138 10K\_4 FCH\_THERMTRIP  
R139 10K\_4 FCH\_T  
R140 10K\_4 FCH\_T  
R141 10K\_4 FCH\_T  
R142 10K\_4 FCH\_T

+3V\_5S  
R143 10K\_4 FCH\_THERMTRIP  
R144 10K\_4 FCH\_T  
R145 10K\_4 FCH\_T  
R146 10K\_4 FCH\_T  
R147 10K\_4 FCH\_T

+3V\_5S  
R148 10K\_4 FCH\_THERMTRIP  
R149 10K\_4 FCH\_T  
R150 10K\_4 FCH\_T  
R151 10K\_4 FCH\_T  
R152 10K\_4 FCH\_T

+3V\_5S  
R153 10K\_4 FCH\_THERMTRIP  
R154 10K\_4 FCH\_T  
R155 10K\_4 FCH\_T  
R156 10K\_4 FCH\_T  
R157 10K\_4 FCH\_T

+3V\_5S  
R158 10K\_4 FCH\_THERMTRIP  
R159 10K\_4 FCH\_T  
R160 10K\_4 FCH\_T  
R161 10K\_4 FCH\_T  
R162 10K\_4 FCH\_T

+3V\_5S  
R163 10K\_4 FCH\_THERMTRIP  
R164 10K\_4 FCH\_T  
R165 10K\_4 FCH\_T  
R166 10K\_4 FCH\_T  
R167 10K\_4 FCH\_T

+3V\_5S  
R168 10K\_4 FCH\_THERMTRIP  
R169 10K\_4 FCH\_T  
R170 10K\_4 FCH\_T  
R171 10K\_4 FCH\_T  
R172 10K\_4 FCH\_T

+3V\_5S  
R173 10K\_4 FCH\_THERMTRIP  
R174 10K\_4 FCH\_T  
R175 10K\_4 FCH\_T  
R176 10K\_4 FCH\_T  
R177 10K\_4 FCH\_T

+3V\_5S  
R178 10K\_4 FCH\_THERMTRIP  
R179 10K\_4 FCH\_T  
R180 10K\_4 FCH\_T  
R181 10K\_4 FCH\_T  
R182 10K\_4 FCH\_T

+3V\_5S  
R183 10K\_4 FCH\_THERMTRIP  
R184 10K\_4 FCH\_T  
R185 10K\_4 FCH\_T  
R186 10K\_4 FCH\_T  
R187 10K\_4 FCH\_T

+3V\_5S  
R188 10K\_4 FCH\_THERMTRIP  
R189 10K\_4 FCH\_T  
R190 10K\_4 FCH\_T  
R191 10K\_4 FCH\_T  
R192 10K\_4 FCH\_T

+3V\_5S  
R193 10K\_4 FCH\_THERMTRIP  
R194 10K\_4 FCH\_T  
R195 10K\_4 FCH\_T  
R196 10K\_4 FCH\_T  
R197 10K\_4 FCH\_T

+3V\_5S  
R198 10K\_4 FCH\_THERMTRIP  
R199 10K\_4 FCH\_T  
R200 10K\_4 FCH\_T  
R201 10K\_4 FCH\_T  
R202 10K\_4 FCH\_T

+3V\_5S  
R203 10K\_4 FCH\_THERMTRIP  
R204 10K\_4 FCH\_T  
R205 10K\_4 FCH\_T  
R206 10K\_4 FCH\_T  
R207 10K\_4 FCH\_T

+3V\_5S  
R208 10K\_4 FCH\_THERMTRIP  
R209 10K\_4 FCH\_T  
R210 10K\_4 FCH\_T  
R211 10K\_4 FCH\_T  
R212 10K\_4 FCH\_T

+3V\_5S  
R213 10K\_4 FCH\_THERMTRIP  
R214 10K\_4 FCH\_T  
R215 10K\_4 FCH\_T  
R216 10K\_4 FCH\_T  
R217 10K\_4 FCH\_T

+3V\_5S  
R218 10K\_4 FCH\_THERMTRIP  
R219 10K\_4 FCH\_T  
R220 10K\_4 FCH\_T  
R221 10K\_4 FCH\_T  
R222 10K\_4 FCH\_T

+3V\_5S  
R223 10K\_4 FCH\_THERMTRIP  
R224 10K\_4 FCH\_T  
R225 10K\_4 FCH\_T  
R226 10K\_4 FCH\_T  
R227 10K\_4 FCH\_T

+3V\_5S  
R228 10K\_4 FCH\_THERMTRIP  
R229 10K\_4 FCH\_T  
R230 10K\_4 FCH\_T  
R231 10K\_4 FCH\_T  
R232 10K\_4 FCH\_T

+3V\_5S  
R233 10K\_4 FCH\_THERMTRIP  
R234 10K\_4 FCH\_T  
R235 10K\_4 FCH\_T  
R236 10K\_4 FCH\_T  
R237 10K\_4 FCH\_T

Integrated 8.2-kg DQ

GEVENT128 -188  
new +3V\_5S

111207:  
Vander suggestion 10k

+3V\_5S  
R228 10K\_4  
Vander suggestion 10k

+3V\_5S  
R229 10K\_4  
Vander suggestion 10k

+3V\_5S  
R230 10K\_4  
Vander suggestion 10k

+3V\_5S  
R231 10K\_4  
Vander suggestion 10k

+3V\_5S  
R232 10K\_4  
Vander suggestion 10k

+3V\_5S  
R233 10K\_4  
Vander suggestion 10k

+3V\_5S  
R234 10K\_4  
Vander suggestion 10k

+3V\_5S  
R235 10K\_4  
Vander suggestion 10k

+3V\_5S  
R236 10K\_4  
Vander suggestion 10k

+3V\_5S  
R237 10K\_4  
Vander suggestion 10k

+3V\_5S  
R238 10K\_4  
Vander suggestion 10k

+3V\_5S  
R239 10K\_4  
Vander suggestion 10k

+3V\_5S  
R240 10K\_4  
Vander suggestion 10k

+3V\_5S  
R241 10K\_4  
Vander suggestion 10k

+3V\_5S  
R242 10K\_4  
Vander suggestion 10k

+3V\_5S  
R243 10K\_4  
Vander suggestion 10k

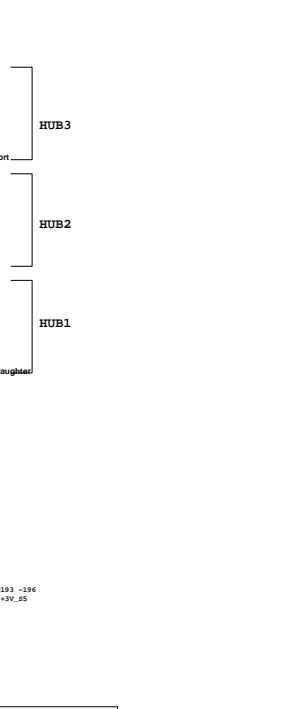
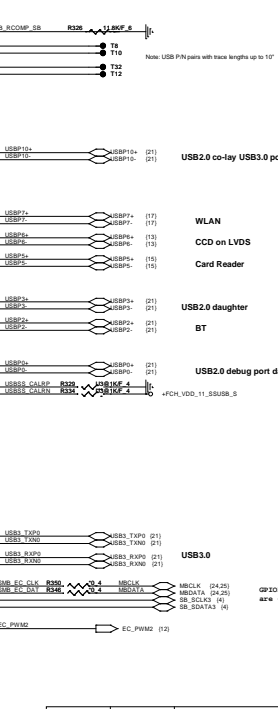
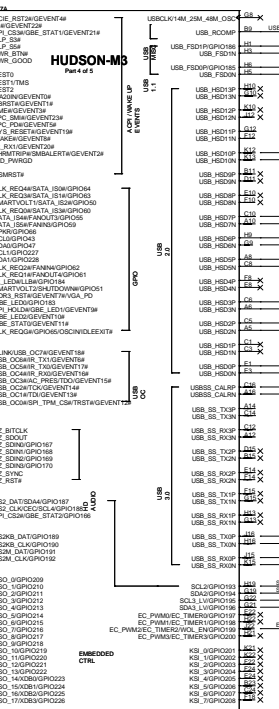
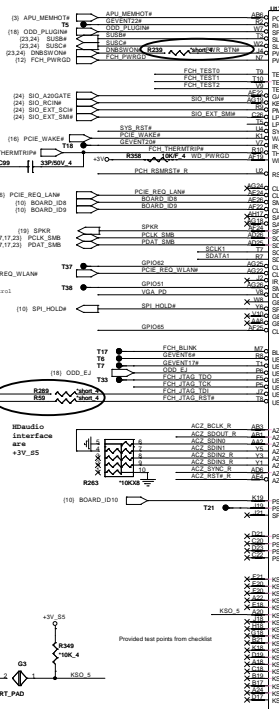
+3V\_5S  
R244 10K\_4  
Vander suggestion 10k

+3V\_5S  
R245 10K\_4  
Vander suggestion 10k

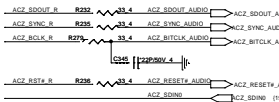
+3V\_5S  
R246 10K\_4  
Vander suggestion 10k

+3V\_5S  
R247 10K\_4  
Vander suggestion 10k

+3V\_5S  
R248 10K\_4  
Vander suggestion 10k



To Azalia



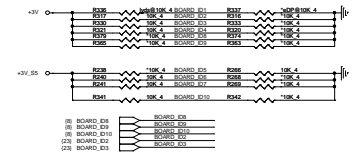
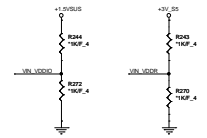
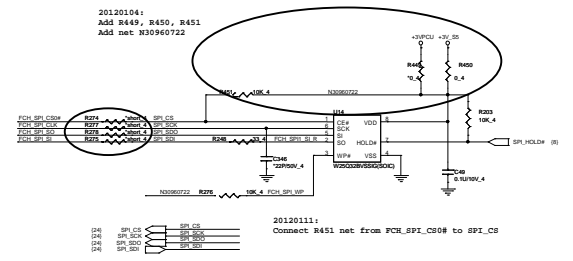
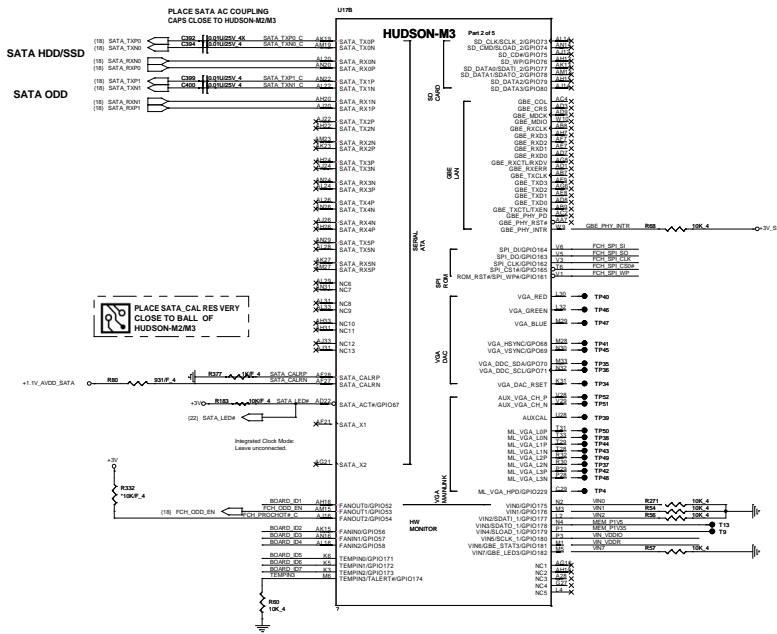
EC	FCH	Device	I2C_Device(s)
I2Ce_1(M)	I2CF_2(M)	Charger	Battery
I2Ce_2(M)		EEPROM	APU
I2Ce_3(M)		VGA Thermal	
	I2CF_3(M)		APU
	I2CF_1(M)	Lan	WLAN
	I2CF_0(M)	Dimm	Clk Gen

EC will Conflict with FCH,  
did not mount R315&R318





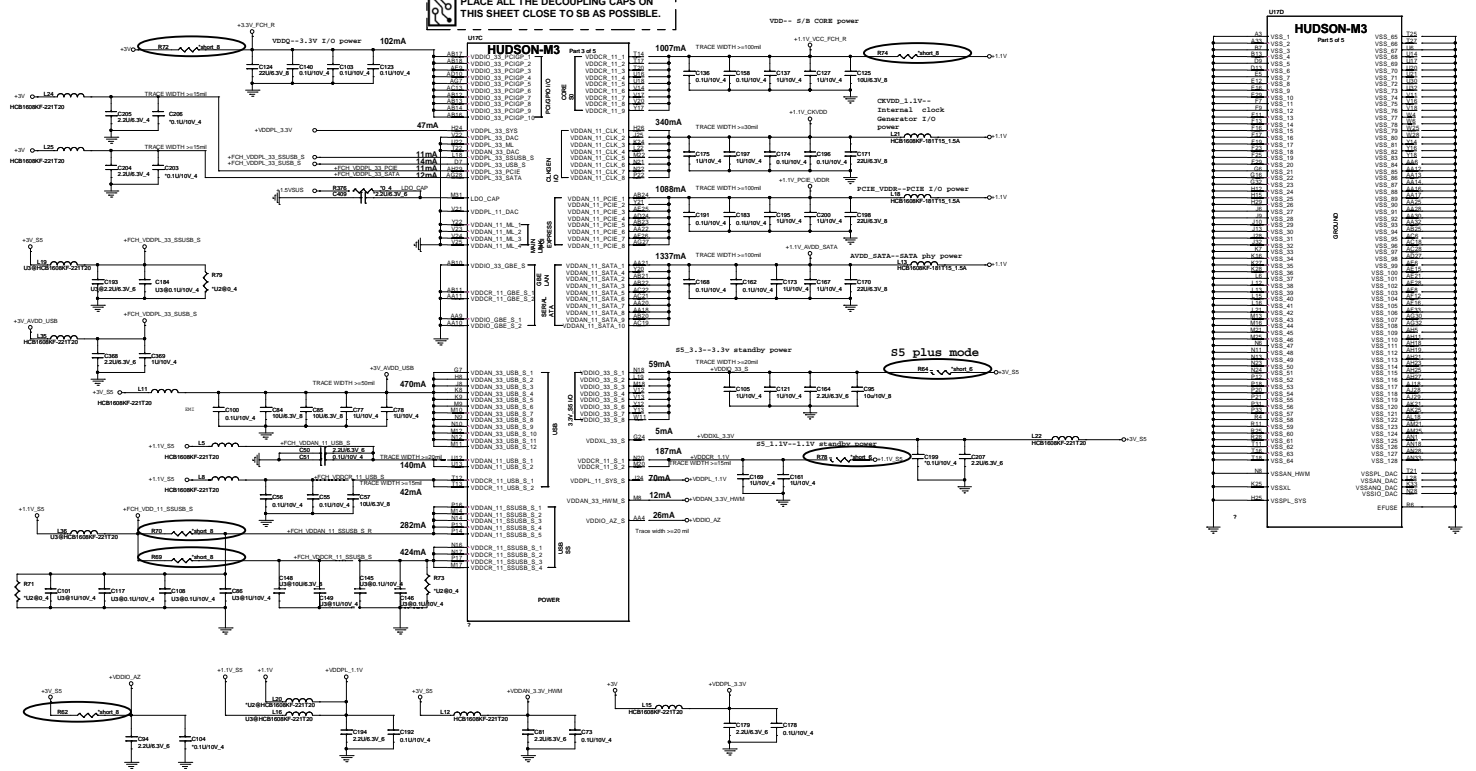




## BOARD ID SETTING

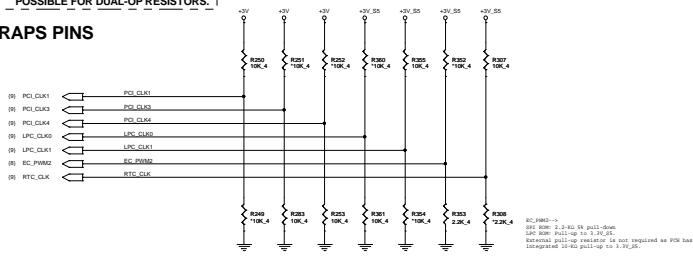
BOARD_ID1	LCD	BOARD_ID2	BOARD_ID3	For TP
0	eDP	0	1	ALPS
1	LVDS	1	0	ELAN
		1	1	Synaptics

PLACE ALL THE DECOUPLING CAPS ON THIS SHEET CLOSE TO SB AS POSSIBLE.



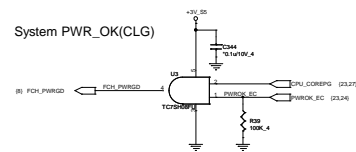
OVERLAP COMMON PADS WHERE  
POSSIBLE FOR DUAL-OP RESISTORS.

## STRAPS PINS



## REQUIRED STRAPS

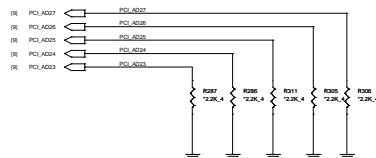
	-----	PCI_CLK1	PCI_CLK2	PCI_CLK3	PCI_CLK4	LPC_CLK0	LPC_CLK1	EC_PWM2	RTC_CLK
PULL HIGH	-----	ALLOW PCI Gen2 DEFAULT	-----	USE DEBUG STRAP	non_Fusion CLOCK MODE	EC ENABLED	CLKGEN ENABLED DEFAULT	LPC ROM	55 PLUS MODE DISABLED DEFAULT
PULL LOW	-----	FORCE PCI Gen1	-----	IGNORE DEBUG STRAP DEFAULT	FUSION CLOCK MODE DEFAULT	EC DISABLED	CLKGEN DISABLED	SPI ROM DEFAULT	55 PLUS MODE ENABLED



FCH PWRGD CKT

## DEBUG STRAPS

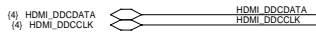
FCH HAS 15K INTERNAL PU FOR PCI\_AD[27:23]



	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE PCI PLL DEFAULT	DISABLE ILA AUTORUN DEFAULT	USE FC PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	DISABLE PCI MEM BOOT DEFAULT
PULL LOW	BYPASS PCI PLL	ENABLE ILA AUTORUN	BYPASS FC PLL	USE EEPROM PCIE STRAPS	ENABLE PCI MEM BOOT



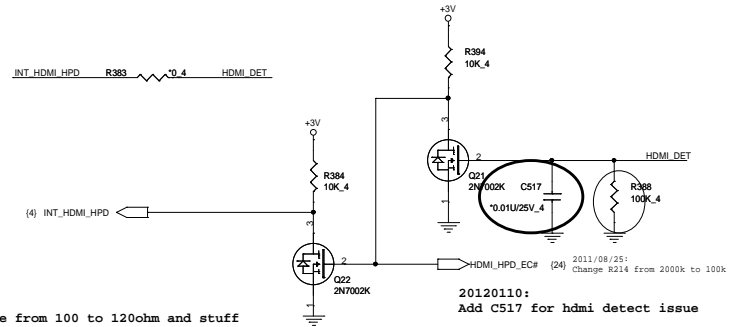
## HDMI SDVO I2C Control



## HDMI HPD SENSE (HDM)

UMA use +3V for the detect pin  
Dis use +3V\_DELAY for the detect pin

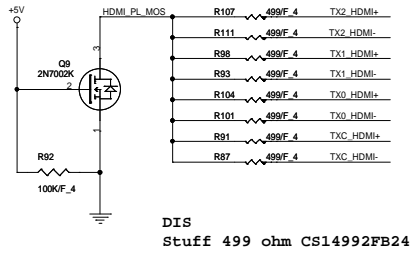
14



## HDMI (HDM)

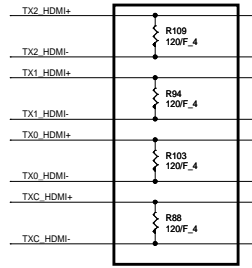
Ramp 0223:  
Change R88, R94, R103, R109 value from 100 to 120ohm and stuff

### Close to HDMI Connector

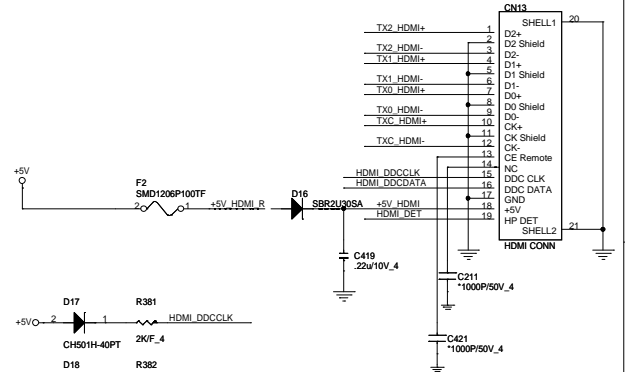


### EMI reserve for HDMI(EMC)

Close connector



## HDMI PORT (HDM)



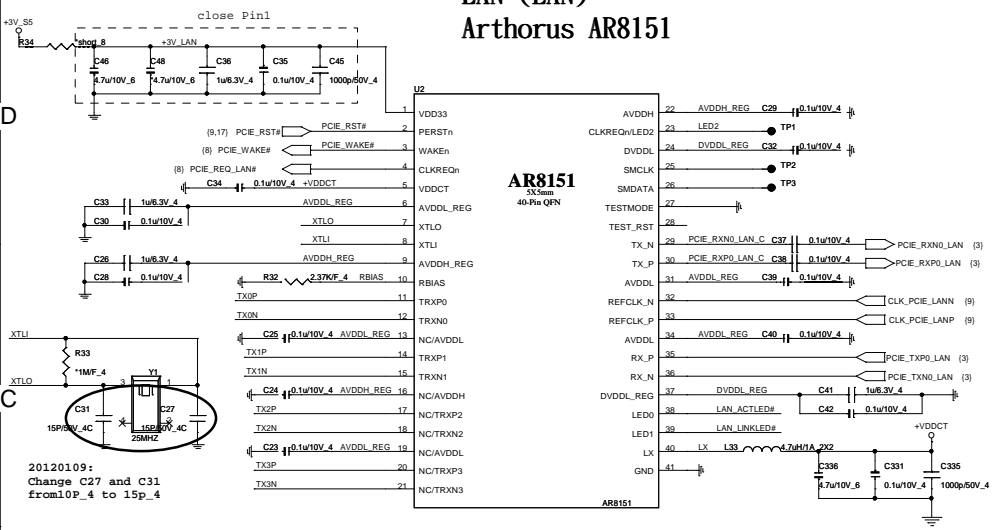
Quanta Computer Inc.

PROJECT : ZQZ

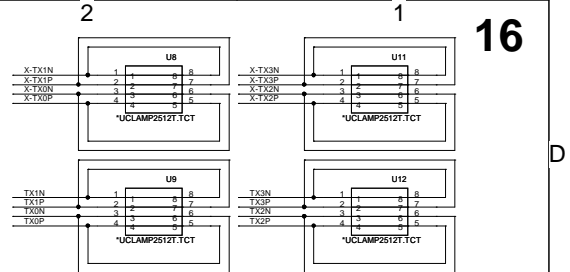
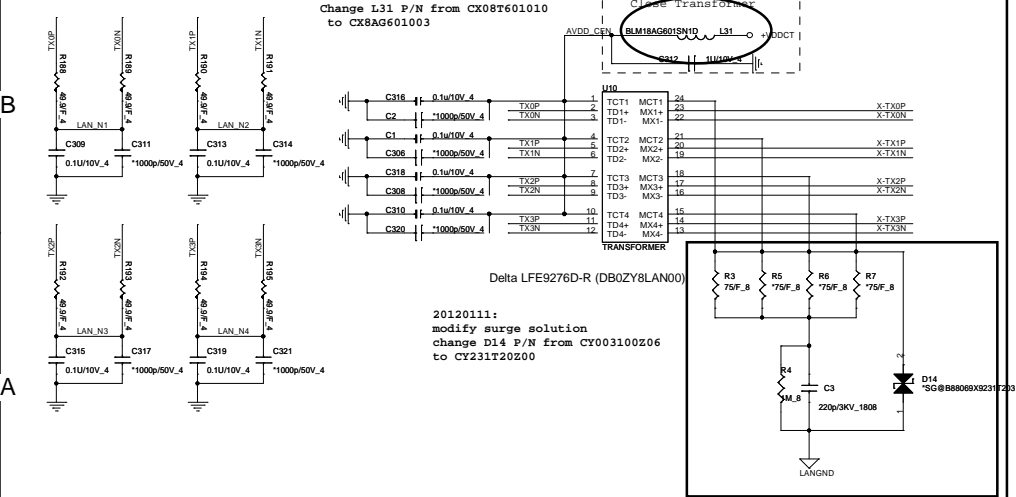
Size	Document Number	HDMI	Rev
Date: Thursday, February 23, 2012	Sheet	14 of 32	1A



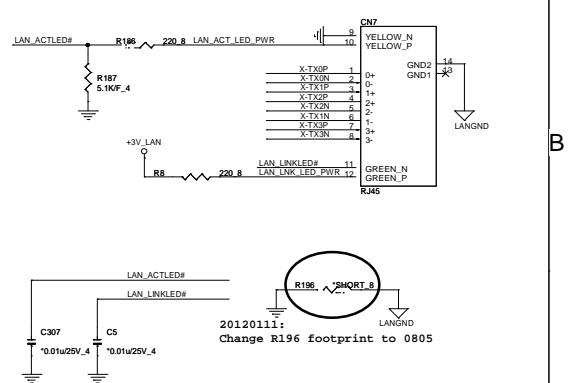
4  
LAN (LAN)  
Arthorus AR8151



TRANSFORMER(LAN)



## RJ45(LAN)

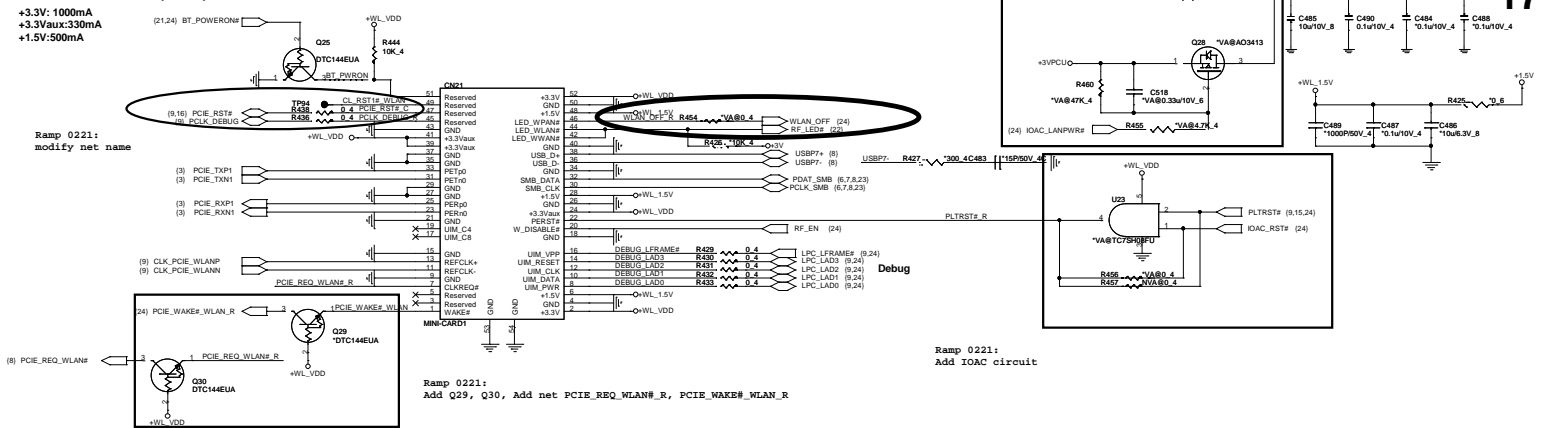




# MINI-CARD WLAN(MPC)

+3.3V: 1000mA  
+3.3Vaux:330mA  
+1.5V:500mA

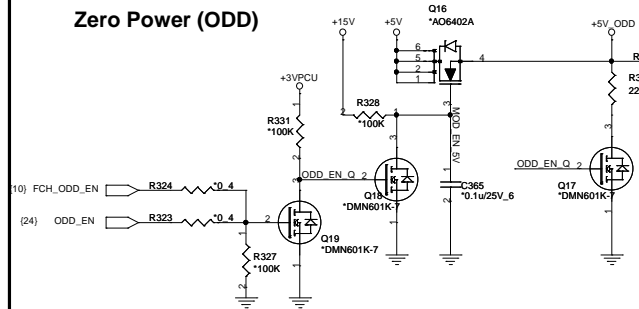
Check LED signal. (active high or low)

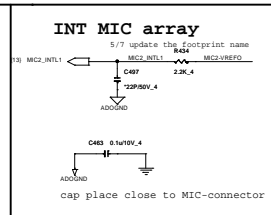
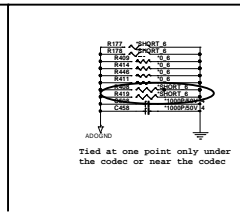
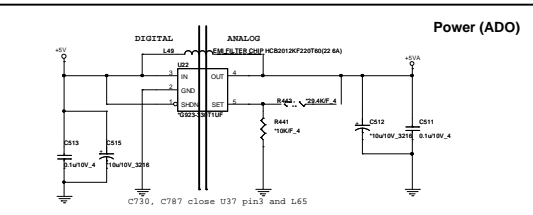
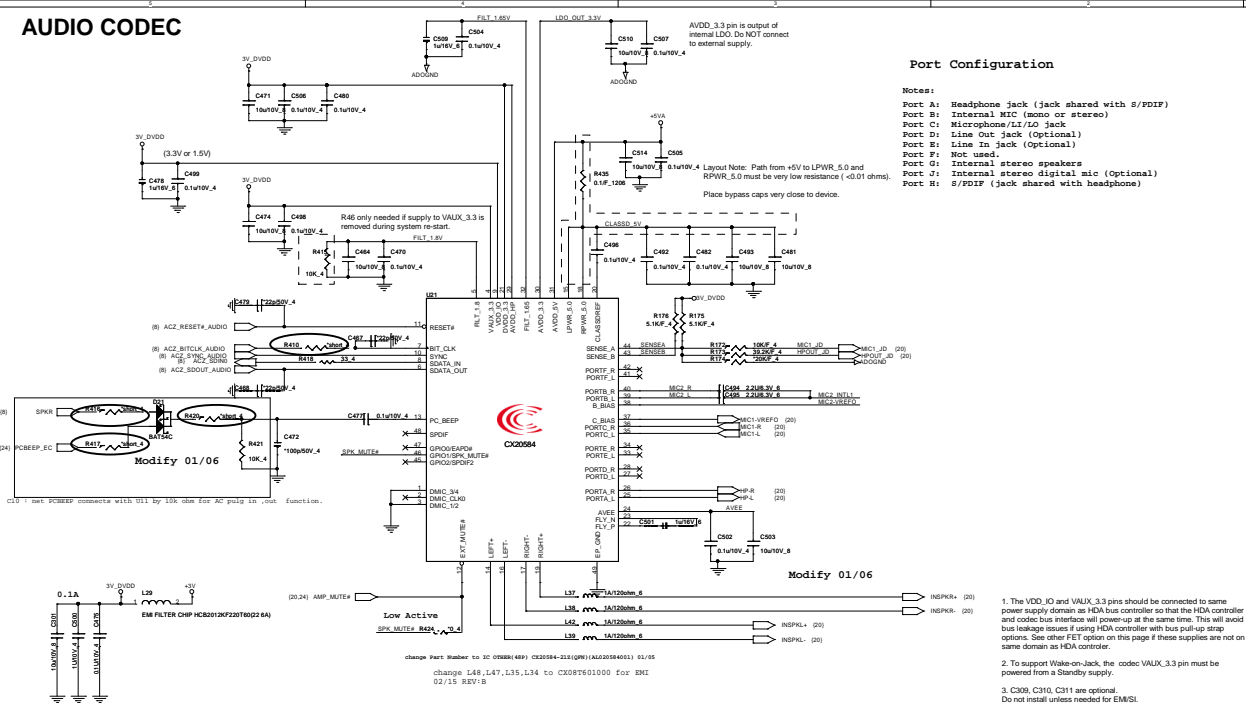


## mSATA

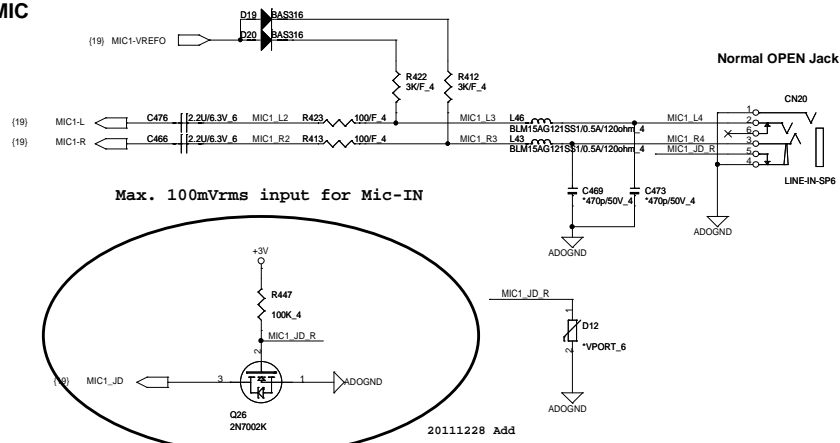


### Zero Power (ODD)

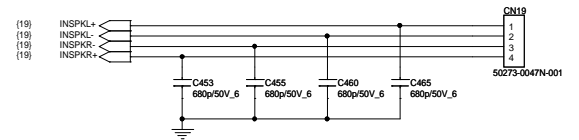




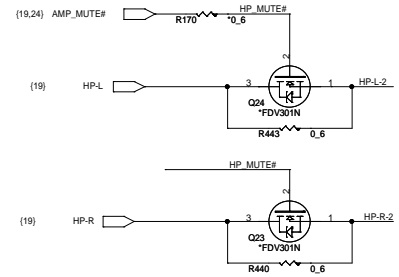
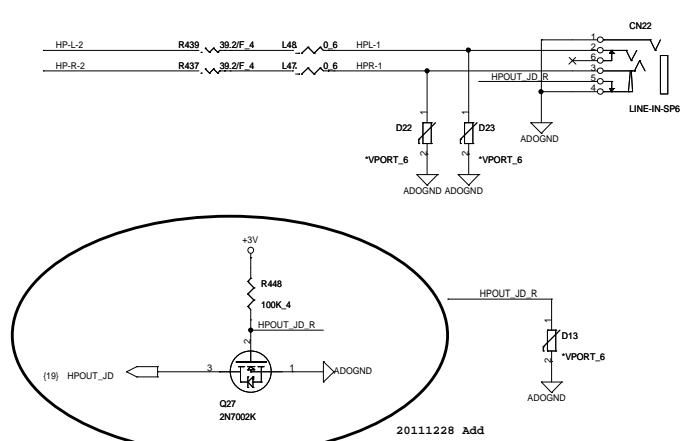
## MIC



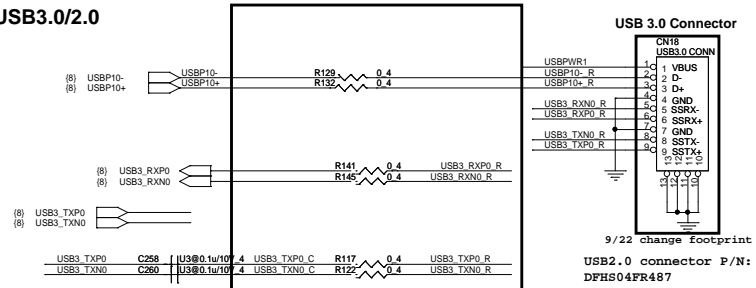
## Internal Speaker



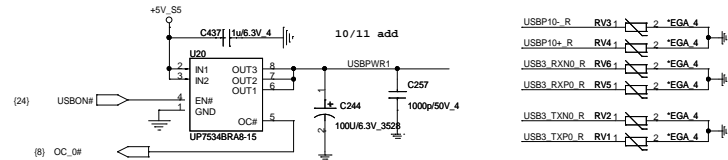
## HP



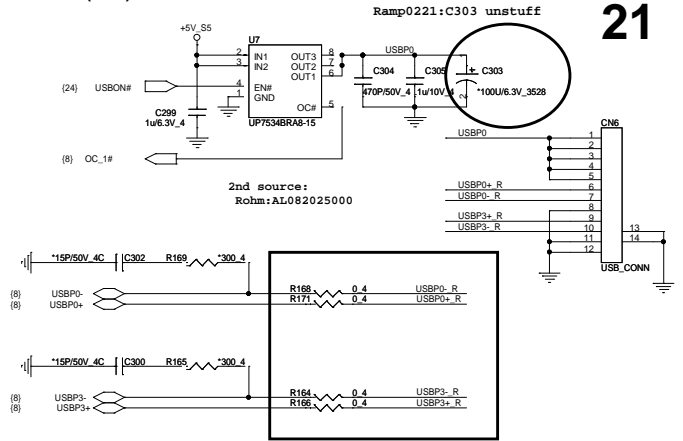
## USB3.0/2.0



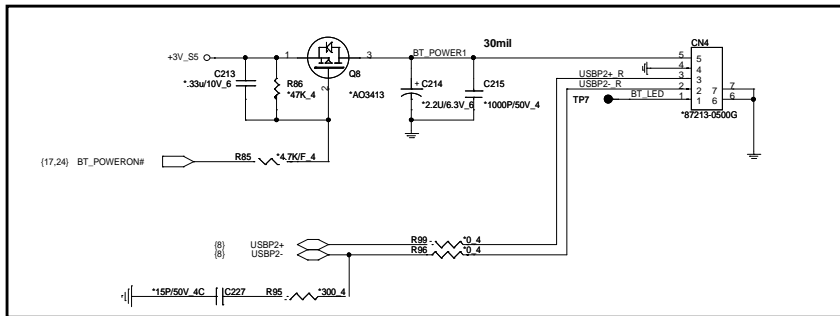
1st source: AL007534000  
2nd source: AL082025000



## EXT. USB(USB)

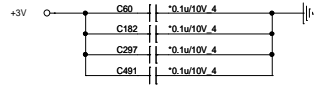
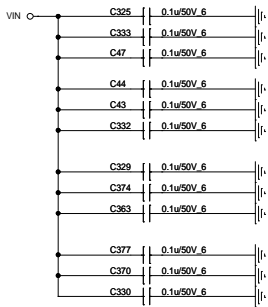


## BLUETOOTH V3.0 CONN(BTM)

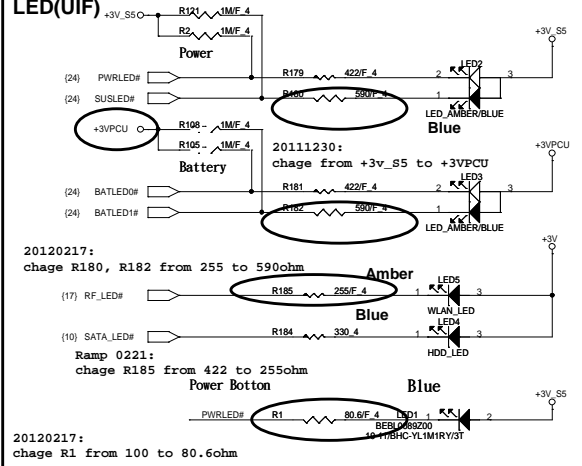


Ramp 0221:  
L27, RP5, RP6, L26, L30, L28

EE RETURN-PATH CAPACITORS(EMC)

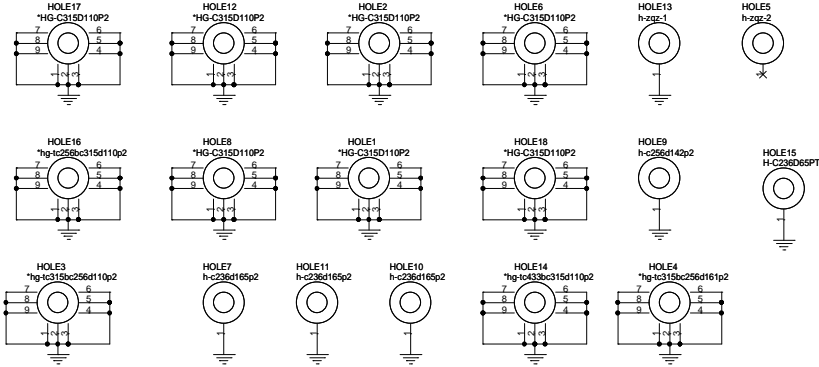


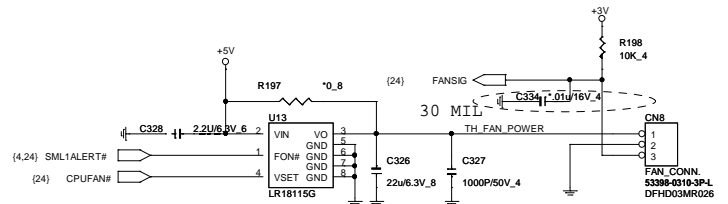
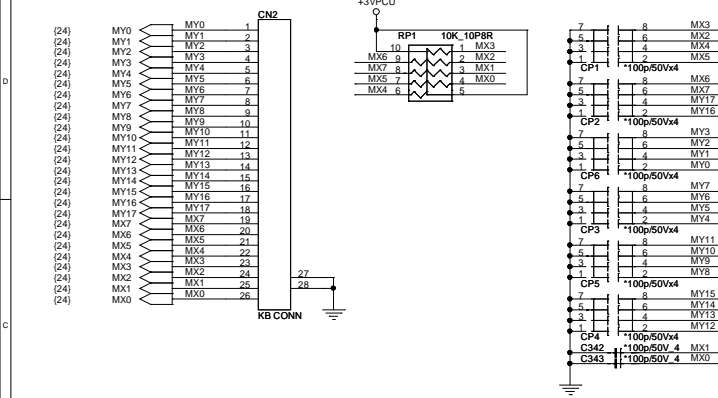
LED(UIF)



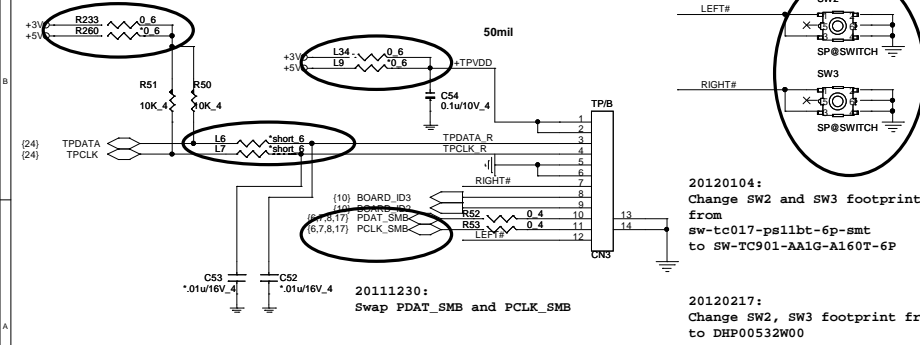
22

HOLE(OTH)



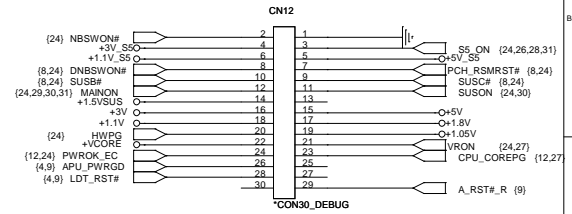


## TOUCHPAD BOARD CONN(TPD)



## Power Sequence

0903--Add Connecotr

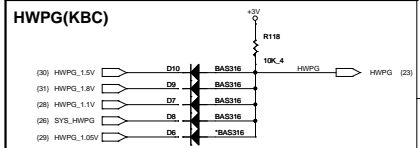
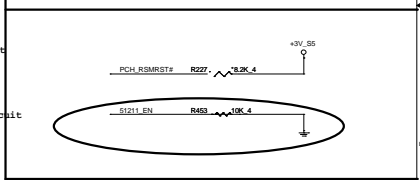
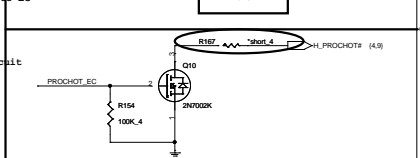
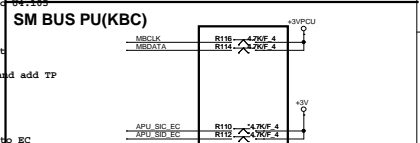


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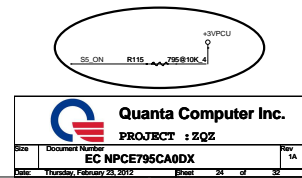
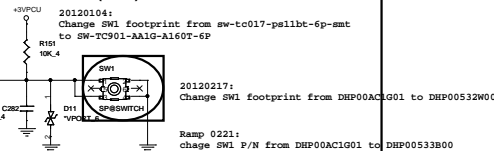
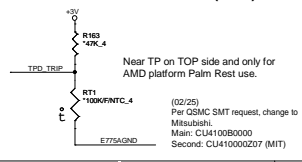
30 - KB/TP/FAN

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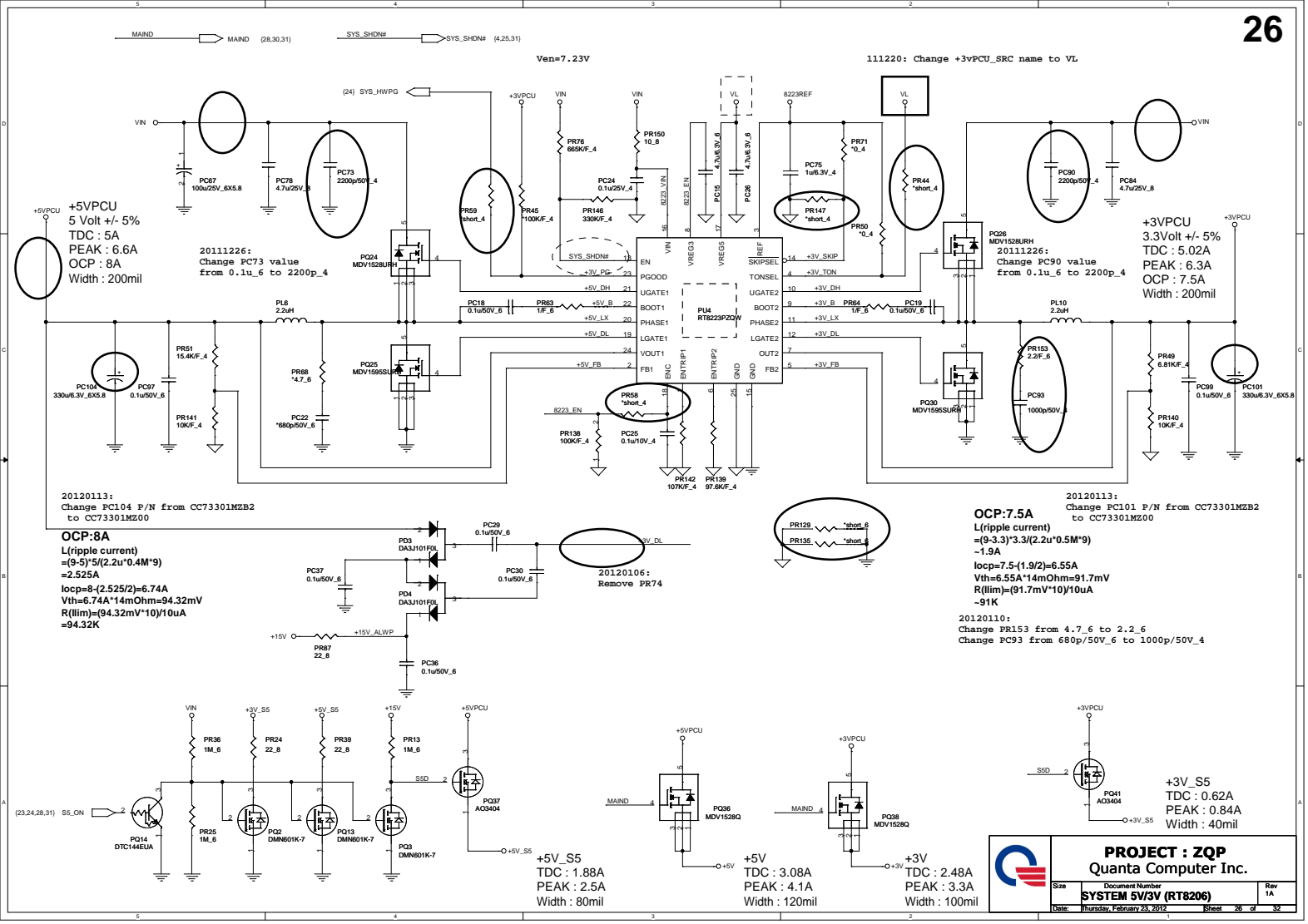
SM Bus 1	Battery
SM Bus 2	APU
SM Bus 3	
SM Bus 4	

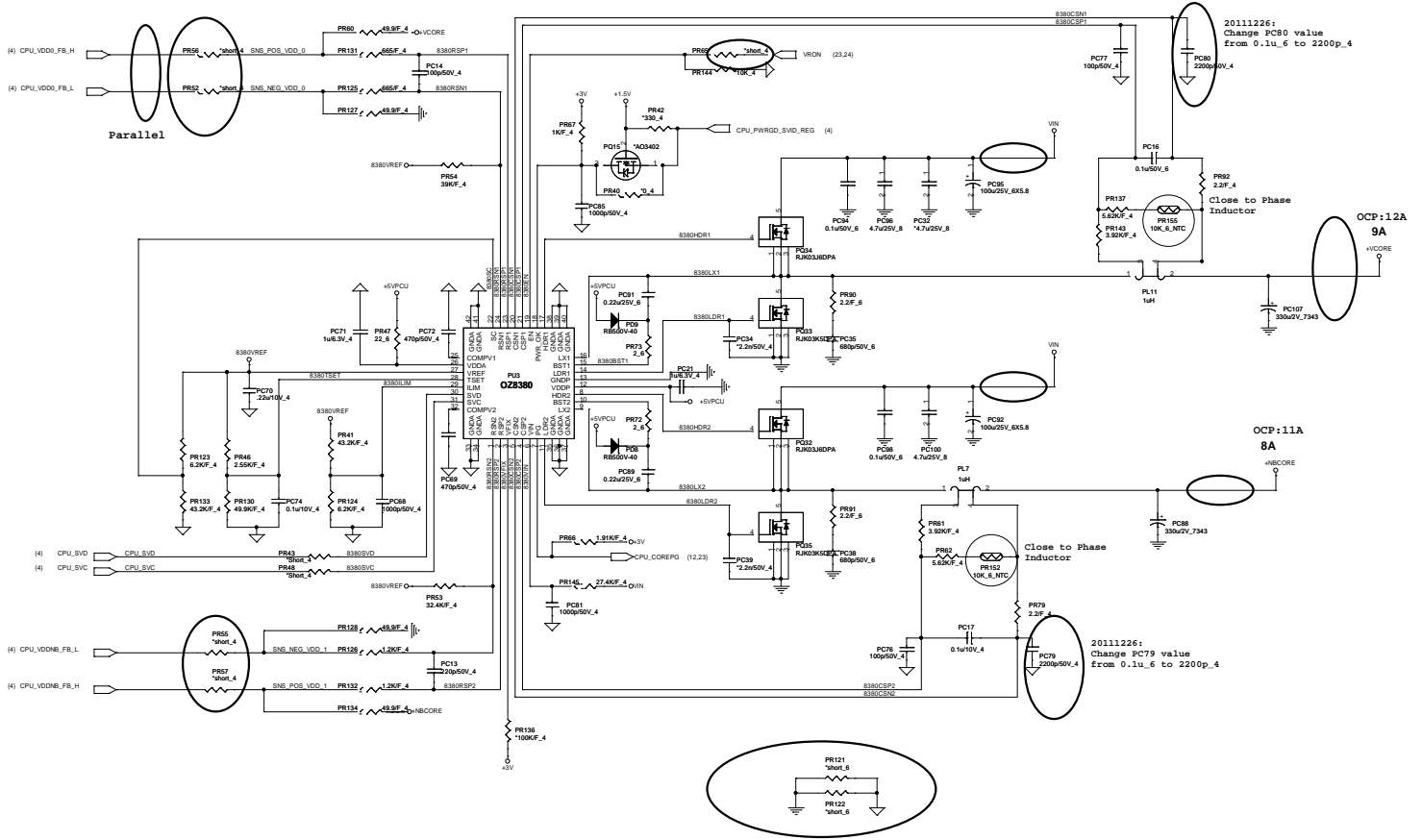
### POWER-ON SWITCH (KBC)



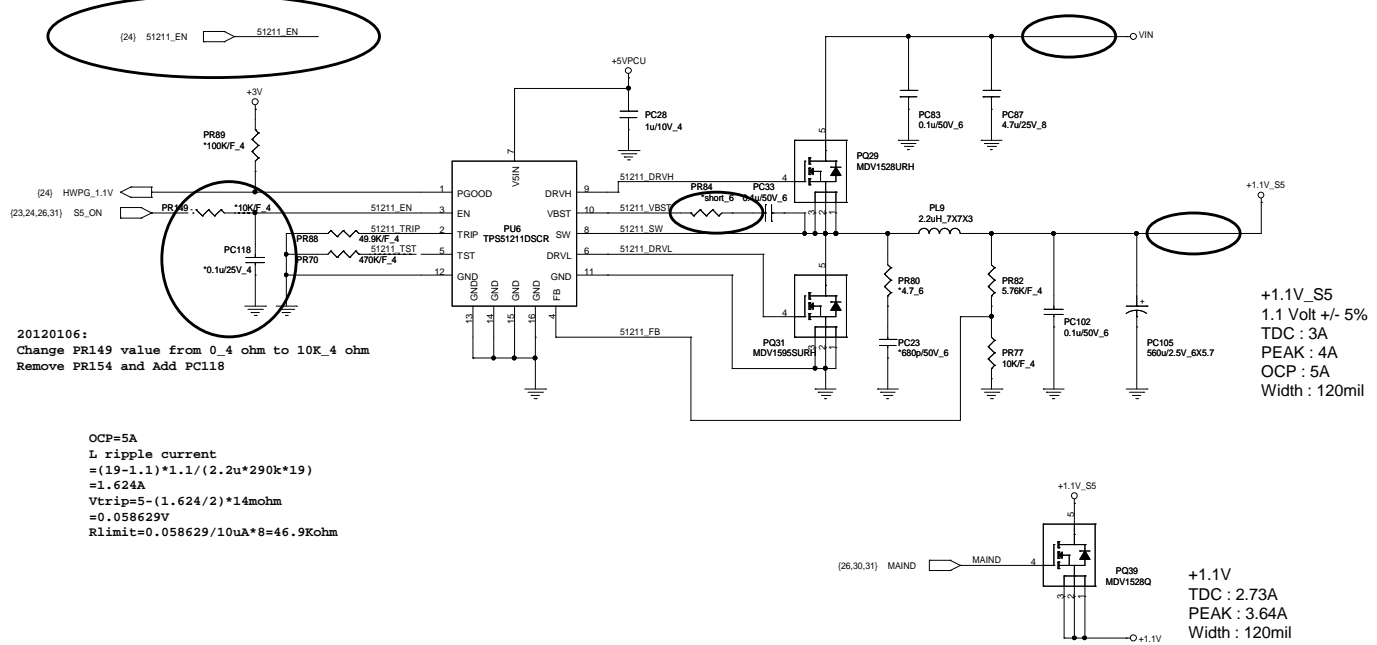


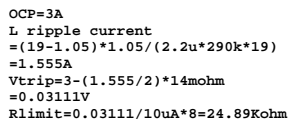


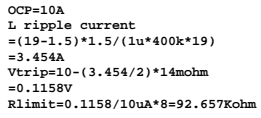





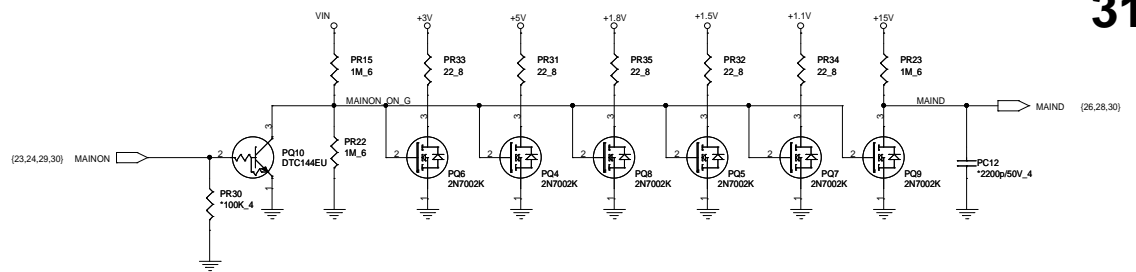
20120106:  
Add net +1.1V\_S5\_EN to EC and add R452



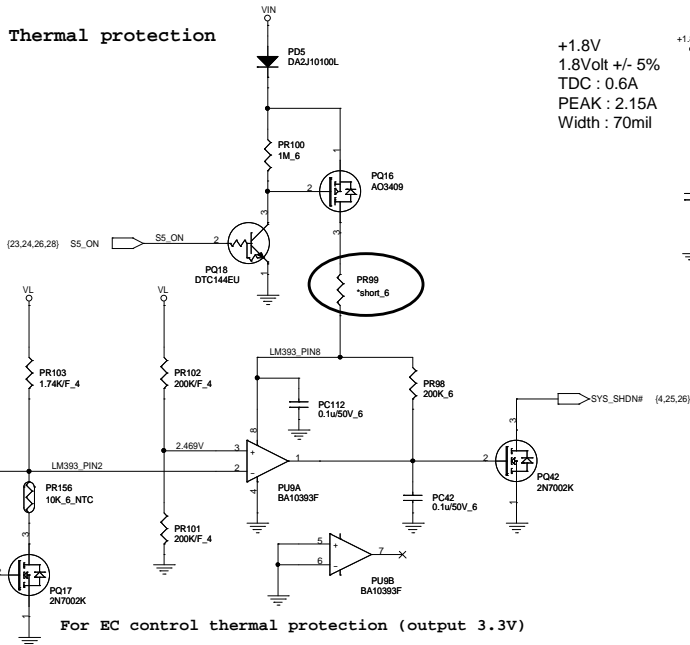




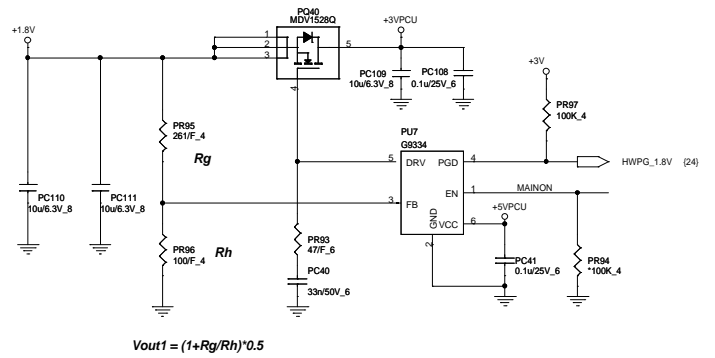
 <b>Quanta Computer Inc.</b> <b>PROJECT : ZQZ</b>	
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### Thermal protection




+1.8V  
1.8V ± 5%  
TDC : 0.6A  
PEAK : 2.15A  
Width : 70mil



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MODEL		REV	CHANGE LIST		Model ZQE/G M/B BOARD					
					Page	From	To			
ZQZ	M/B	A	First Release		1	1A	3A			
					2	1A	3A			
		B	<p>111220: page26--Change PR44 net from +3VPCU_SRC name to VL</p> <p>111220: Change all TP footprint to TP2650</p> <p>111226: page25--Change PR20 value from 20_1206ohm to 22_8ohm</p> <p>Change PR12 value from 7.5ohm to 10ohm</p> <p>page26&amp;27--Change PC73, PC79, PC80, PC90 value from 0.1u_6 to 2200p_4</p> <p>111228: page20--Add R447, R448, Q26, Q27</p> <p>111230: page23--Swap PDAT_SMB and PCLK_SMB</p> <p>120103: page24--Change TP26 from U4.105 to U4.22</p> <p>Change net CPUFAN# from U4.22 to U4.105</p> <p>120104: Change PQ22,PQ23,PQ24,PQ25,PQ26,PQ27,PQ28,PQ29,PQ30,PQ31,PQ36,PQ38,,PQ39, PQ40,PQ43,PQ44 footprint to wdfn5-3_05x3_05-65</p> <p>120104: page13--Swap INT_EDIDCLK from CN1.32 to CN1.33</p> <p>Swap INT_EDIDDATA from CN1.33 to CN1.32</p> <p>Change SW1, SW2, SW3 footprint from sw-tc017-ps11bt-6p-smt to SW-TC901-AA1G-A160T-6P</p> <p>R30, R28, Q2, Q3 unstuff, R21 stuff</p> <p>page10--Add R449, R450, R451</p> <p>Add net N30960722</p> <p>120106: page26--Remove PR74</p> <p>page24--Remove net POWERSMAR_SW and add TP97</p> <p>page24--Remove net POWERSMARTLED and add TP95</p> <p>page24--Remove net +0.75V_ON and add TP96</p> <p>page28--Change PR149 value from 0_4 ohm to 422K_4 ohm</p> <p>page28--Remove PR154 and Add PC118</p> <p>page28--Add net +1.1V_S5_EN to EC and add R452</p> <p>page24--Connect net SML1ALERT# to EC and add R453</p> <p>120109: page26--Change C27 and C31 from10P_4 to 15p_4</p> <p>120109: page25--PR20 No change</p> <p>120109: page25--Change PC11 from 0.1u/50V_6 to 47n/50V_6</p> <p>120109: page25--PR12 no Change</p> <p>120109: Remove JP9, JP3, JP12, JP3, JP10, JP11, JP13, JP14, JP7, JP1, JP2, JP4, JP5, JP6</p> <p>120110:page25--Change PR28 from 4.7_6 to 2.2_6, Change PC9 from 680p/50V_6 to 1000p/50V_4</p> <p>120110:page26--Change PR153 from 4.7_6 to 2.2_6, Change PC93 from 680p/50V_6 to 1000p/50V_4</p> <p>120110:page30--Change PR159 from 4.7_6 to 2.2_6, Change PC115 from 680p/50V_6 to 1000p/50V_4</p> <p>120110:page13--Change L14, L17, L23 from BLM18BA470SN1_6 to BLM18BB750SN1D</p> <p>120110:page13--Change C398 from .1u_10V_4 to 1000p/50V_4</p> <p>120110:page9--Change R364 from 22_4 to 33_4 --&gt;for slewrate issue</p> <p>120111:page16--modify surge solution and change D14 P/N from CY003100Z06 to CY231T20Z00</p> <p>120111:page10--Connect R451 net from FCH_SPI_CS0# to SPI_CS</p> <p>120111:page14--Add C517 for hdmi detect issue</p> <p>120111:page16--Change R196 footprint to 0805</p> <p>120112:page09--Change R359 from 22_4 to 33_4--&gt;follow vender suggestion</p> <p>120112:page24--Change R110, R112, R116, R114 from 10k to 4.7k--&gt;follow vender suggestion</p> <p>120112:Change PQ24, PQ26, PQ28, PQ29, PQ44 P/N from BAM74100001 to BAM15280000</p> <p>120112:Change PQ25, PQ27, PQ30, PQ31, PQ43 P/N from BAM77020000 to BAM15950000</p> <p>120112:Change PQ32, PQ34 P/N from BAM14480000 to BAM03J60000</p> <p>120112:Change PQ33, PQ35 P/N from BAM17180000 to BAM03K50000</p> <p>120113:page25--Change PD1 P/N to BC1N4148Z00</p> <p>120113:page16--Change Change L31 P/N from CX08T601010 to CX8AG601003</p> <p>120113:page26--Change PC101, PC104 P/N from CC73301MZB2 to CC73301MZ00</p> <p>120217:page22--Change R180, R182 from 255 to 590ohm</p> <p>120217:page22--Change R1 from 100 to 80.6ohm</p> <p>120217:page23,24--Change SW1, SW2, SW3 from DHP00AC1G01 to DHP00532W00</p>	3	1A	3A				
				4	1A	3A				
				5	1A	3A				
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				7	1A	3A				
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				52	1A	3A				
				53	1A	3A				
				54	1A	3A				
						C	<p>120221:page21-C303 unstuff</p> <p>120221:page21-BT component unstuff</p> <p>120221:page22-Change R185 from422 to 255ohm</p> <p>120221:page24-chage SW1 P/N from DHP00AC1G01 to DHP00533B00</p> <p>120221:page13-Remove L3</p> <p>120221:page21-Remove L27, RP5, RP6, L26, L30, L28</p> <p>120221:page17-Add IOAC circuit, R454, Q28, C518, R455,U23, R456, R457,, R460</p> <p>Add Net WLAN_OFF, WLAN_OFF_R, IOAC_LANPWR#, PLTRST#_R, IOAC_RST#</p> <p>120221:page24-Add R458, Add net PLTRST#_C</p> <p>120221:page18-Add R459</p> <p>120223:page9-Remove RP3,RP4, AddR461, R462, R463, R464</p> <p>120223:page14-Change R88, R94, R103, R109 value from 100 to 120ohm and stuff</p> <p>120223:page17-Add Q29, Q30, Add net PCIE_REQ_WLAN#_R, PCIE_WAKE#_WLAN_R</p>			



Size

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1A

ZQZ	ZQZ	PCBA NO.	REV:	DOC. NO :
	APPROVED BY : Spruce Wu	CHECK BY :Martin Tsai	DRAWING BY : Allen Hsu	DATE :
				SHEET 1



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