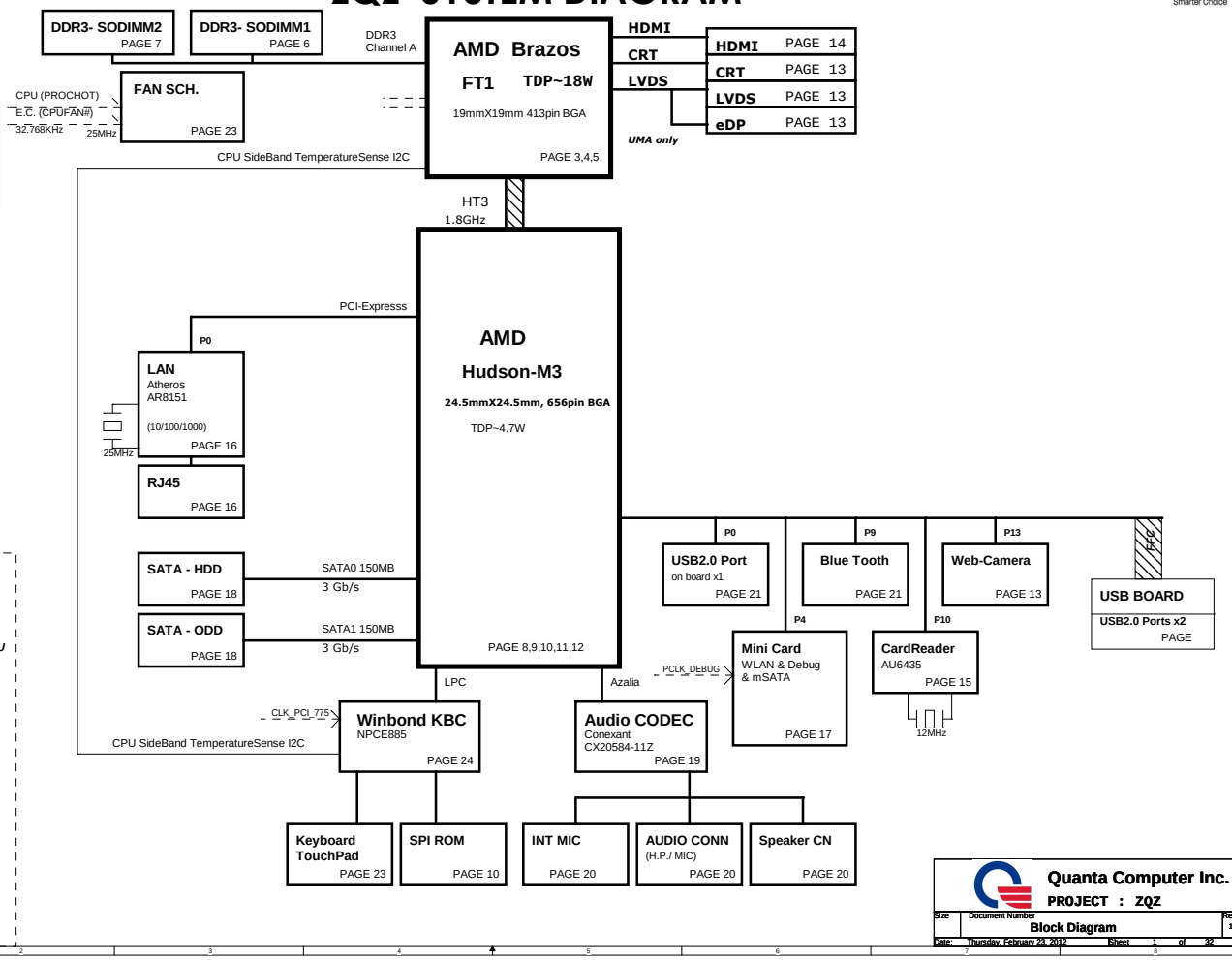
ZQZ SYSTEM DIAGRAM

PCB STACK UP

- LAYER 1 : TOP
- LAYER 2 : GND
- LAYER 3 : IN1
- LAYER 4 : IN2
- LAYER 5 : VCC
- LAYER 6 : BOT

eDP@ -----> eDP panel
lvds@ -----> lvds panel



CPU

- CHARGER (BQ24707A) PAGE 26
- AMD CPU CORE (OZ8380) PAGE 28
- 1.-05V (TPS51211) PAGE30

NB

- DDR 1.5V(TPS51216) PAGE 31
- SYSTEM 5V/3V (RT8223M) PAGE 27
- 1.1V(TPS51211) PAGE 29
- Discharge /Thermal protec PAGE 31

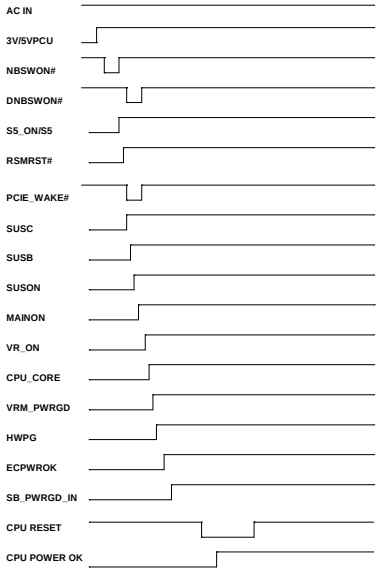
Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	Block Diagram	1A

Date: Thursday, February 23, 2012 Sheet 1 of 32

INDEX

Power Sequence



Hudson M1 SM BUS

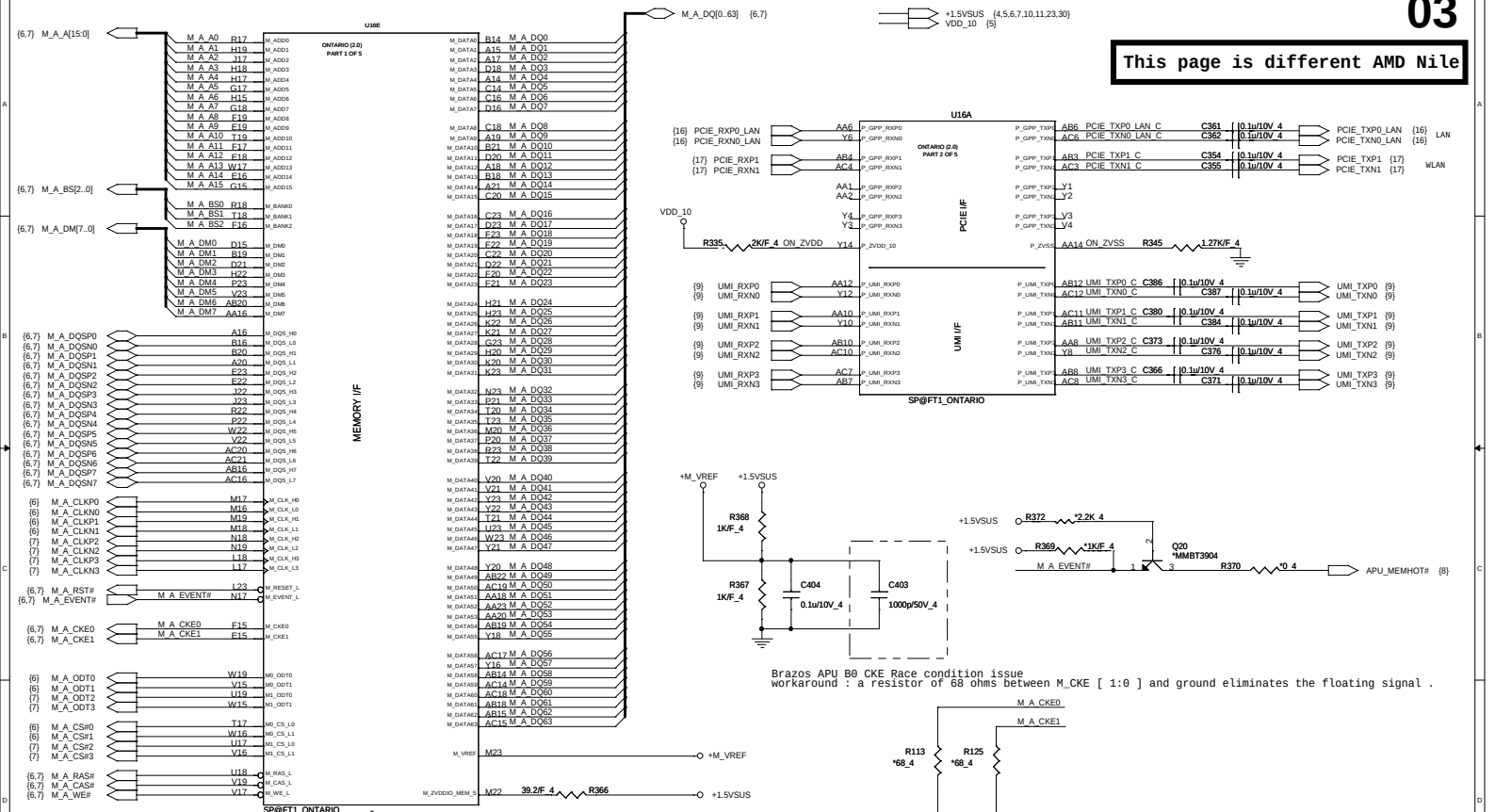
SB820 SMBUS	Pin NO.	SMBUS Function Define
PCLK_SMB PDAT_SMB (+3V)	AD22 AE22	DDR / RFID
SB_SMBCLK1 SB_SMBDATA1 (+3V_S5)	F5 F4	not used
SB_SCLK2 SB_SDATA2 (+3V_S5)	D25 F23	not used
SB_SCLK3 SB_SDATA3 (+3V_S5)	B26 E26	not used
SB_SCLK3 SB_SDATA3 (+3V_S5)	B26 E26	not used

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

Quanta Computer Inc.
PROJECT : ZQZ
Size | Document Number | Rev 1A
System Information
Date: Thursday, February 23, 2012 | Sheet 2 of 32

This page is different AMD Nile

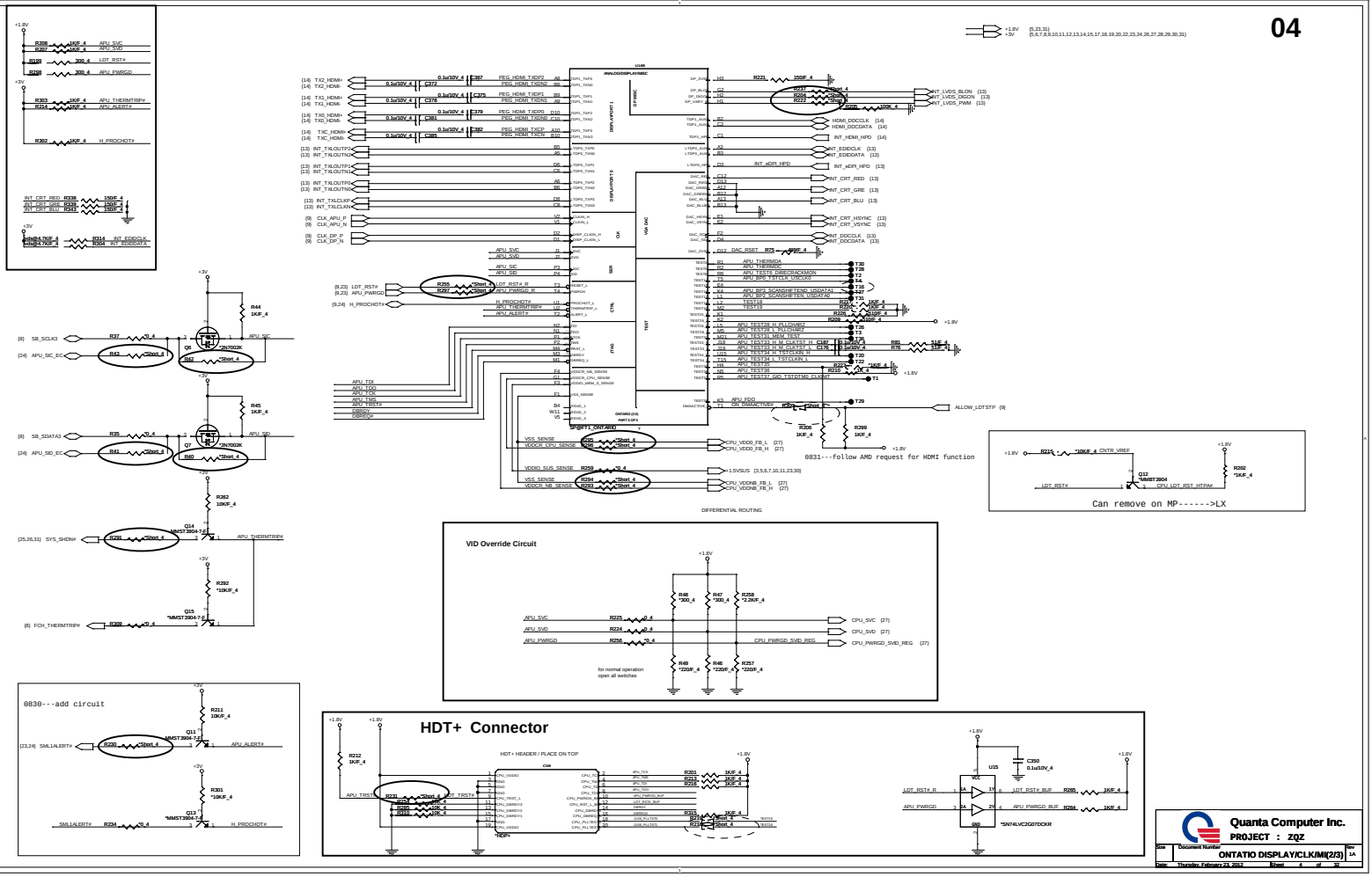


Brazos APU B0 CKE Race condition issue
workaround : a resistor of 68 ohms between M_CKE [1:0] and ground eliminates the floating signal .

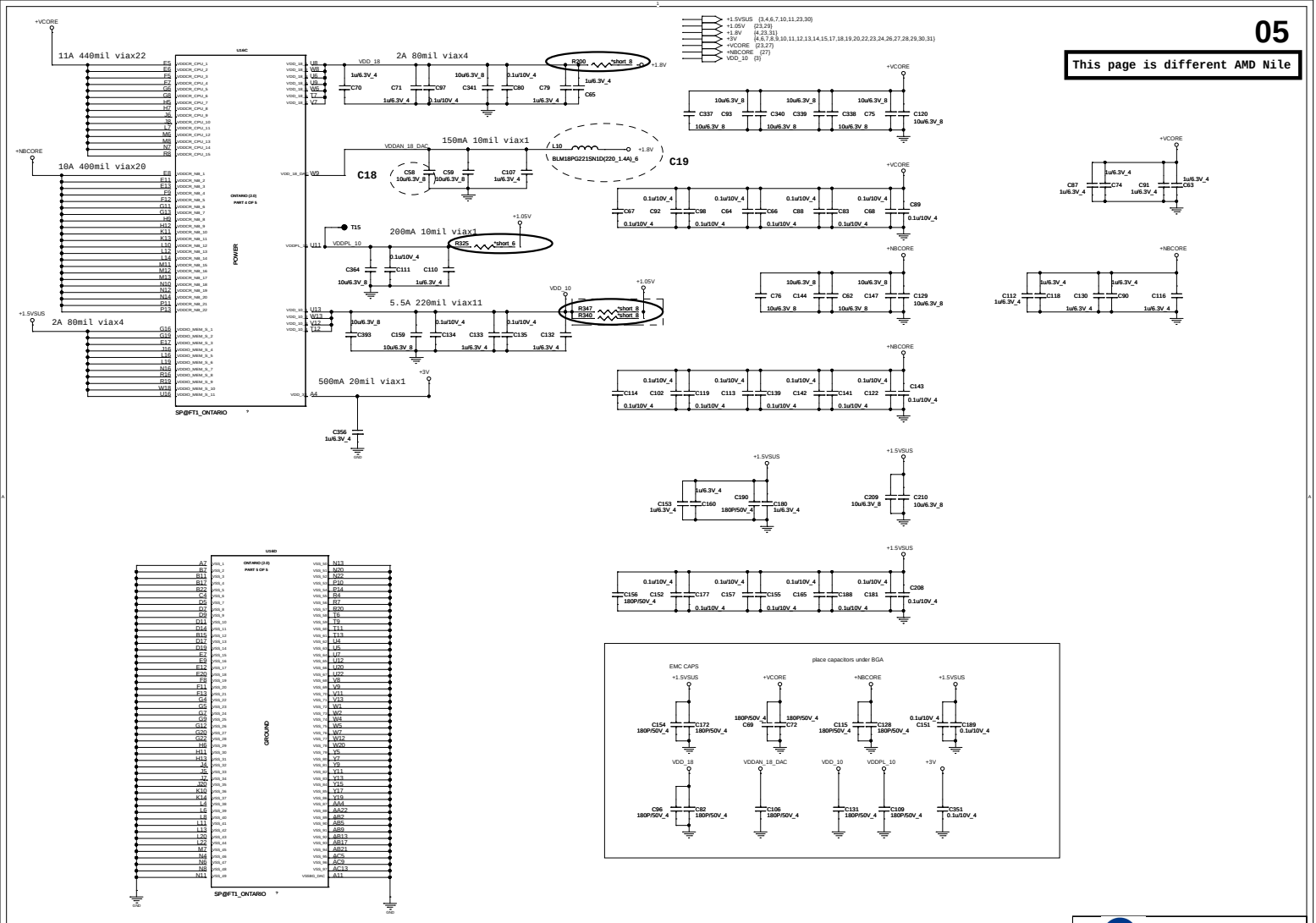
P/N	Item Description
AJ01200TT00	CPU(413P)EM1200GBB22GV 1.4G(BGA)
AJ01200TT01	CPU(413P)EM1200GBB22GV 1.4G(BGA)STN BSQ
AJ01800VT00	CPU(413P)EM1800GBB22GV 1.7G(BGA)
AJ01800VT01	CPU(413P)EM1800GBB22GV 1.7G(BGA)STN BSQ

Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	ONTARIO MEM & PCIE I/F(1/3)	1A
Date: Thursday, February 23, 2012	Sheet 3 of 32	


0831---follow AMD request for HDMI function
DIFFERENTIAL ROUTING
Can remove on MP------>LX
VID Override Circuit
for normal operation
open all switches
0830---add circuit
HDT+ Connector
HDT+ HEADER / PLACE ON TOP
Quanta Computer Inc.
PROJECT : ZQZ
ONTATIO DISPLAY/CLK/MI(2/3)
Thursday, February 23, 2012

This page is different AMD Nile



Quanta Computer Inc.			
PROJECT : ZQZ			
Size	Document Number		Rev
	ONTARIO POWER & DECOUP(3/3)		1A
Date: Thursday, February 23, 2012		Sheet 5 of 32	

0830--P/N and footprint are follow ZR7B

+1.5VSUS (3,4,5,7,10,11,23,30)
+0.75V_DDR_VTT (7,30)
+3V (4,5,7,8,9,10,11,12,13,14,15,17,18,19,20,22,23,24,26,27,28,29,30,31)

CN15A

PC2100 DDR3 SDRAM SO-DIMM (204P)

DDR3-DIMM1_H=9.2_STD

BUS1_A2

SM_MEM BUS ADDRESS	
SO-DIMM0	1010 000
SO-DIMM1	1010 001

CN15B

PC2100 DDR3 SDRAM SO-DIMM (204P)

DDR3-DIMM1_H=9.2_STD

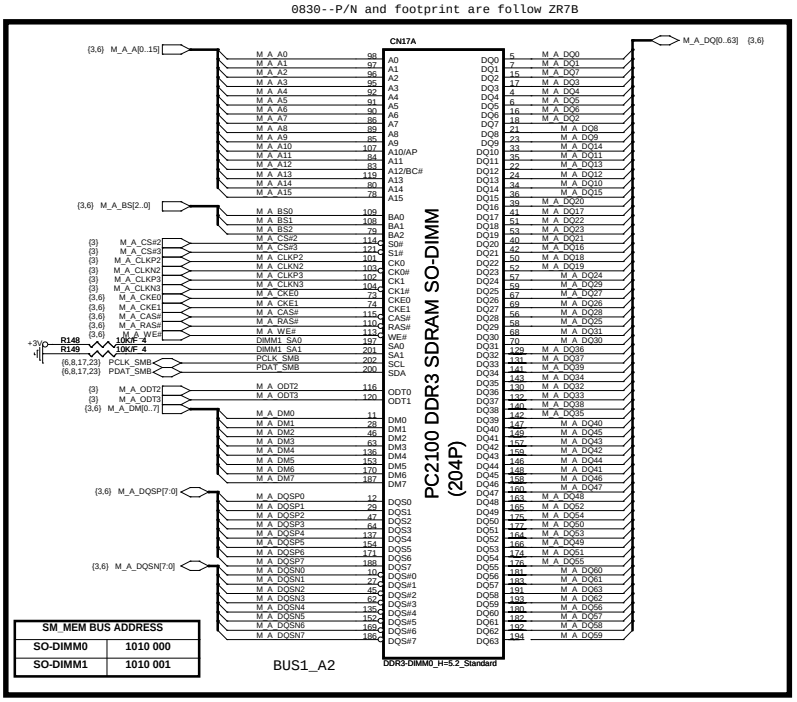
600mA

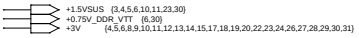
3mA

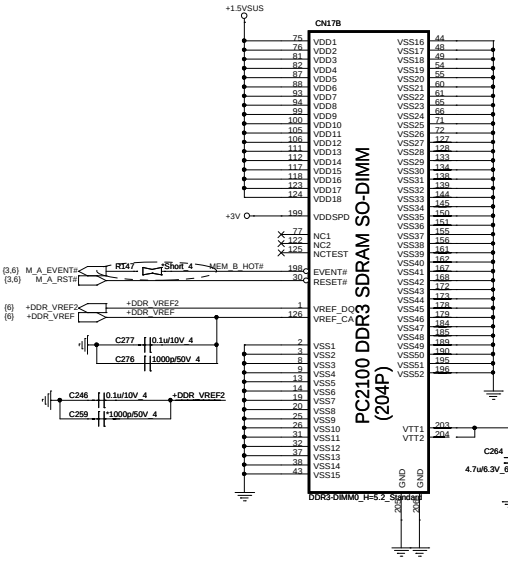
+SMDDR_VREF

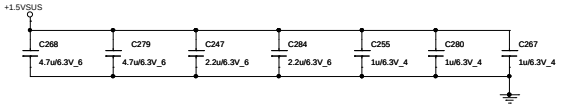
Quanta Computer Inc.
PROJECT : ZQZ
Size | Document Number: DDR3 SO-DIMM (STD) | Rev 1A
Date: Thursday, February 23, 2012 | Sheet 6 of 32

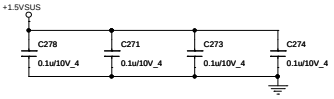
0830--P/N and footprint are follow ZR7B

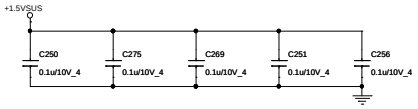


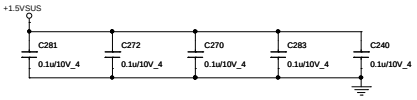


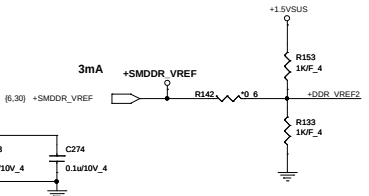




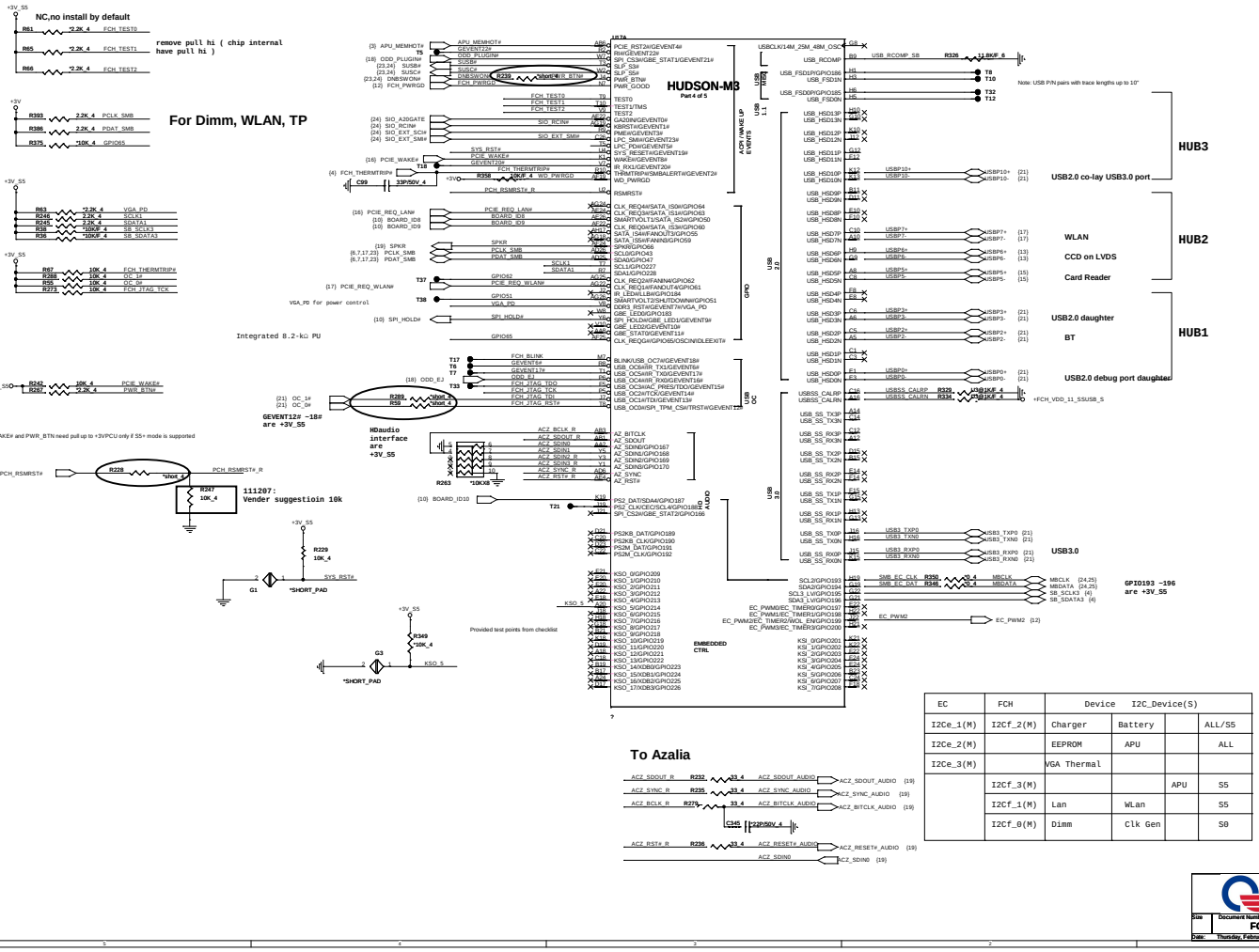








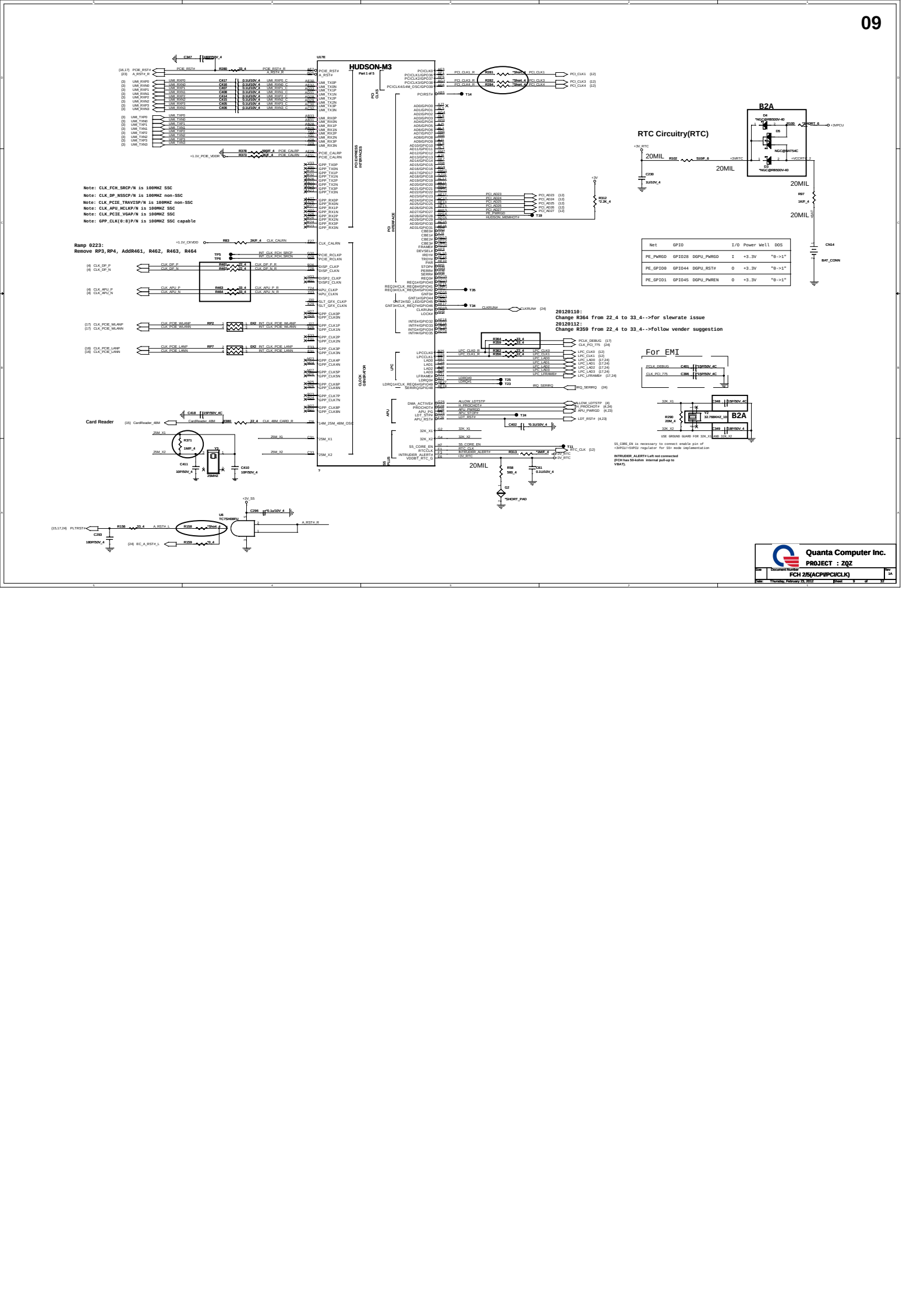
Quanta Computer Inc.		
PROJECT : ZQZ		
Size	Document Number: DDR3 SO-DIMM (STD)	Rev: 1A
Date: Thursday, February 23, 2012	Sheet 7 of 32	

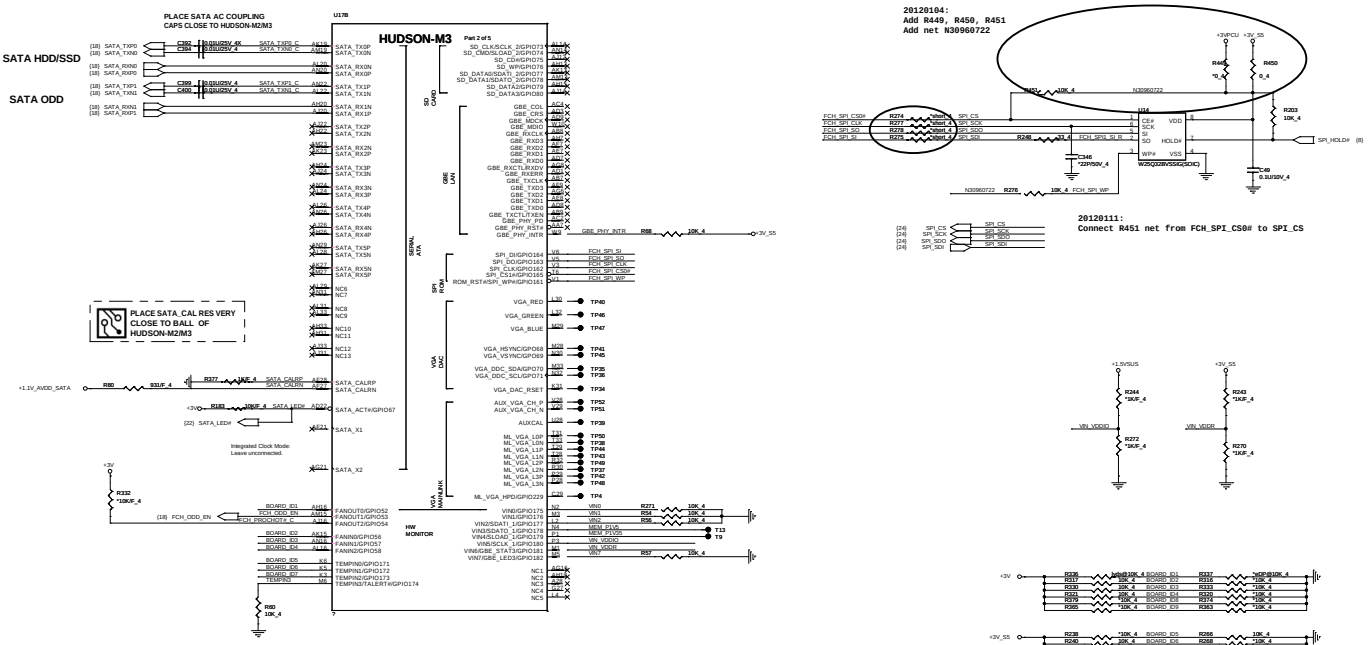


EC	FCH	Device I2C_Device(S)			
I2Ce_1(M)	I2Cf_2(M)	Charger	Battery		ALL/S5
I2Ce_2(M)		EEPROM	APU		ALL
I2Ce_3(M)		VGA Thermal			
	I2Cf_3(M)			APU	S5
	I2Cf_1(M)	Lan	WLan		S5
	I2Cf_0(M)	Dimm	Clk Gen		S0

EC will Conflict with FCH, did not mount R3154&R318

Quanta Computer Inc.
PROJECT : ZQZ
Size | Document Number | Rev 1A
FCH 1/5(GPIO/USB/AZ)
Date: Thursday, February 23, 2012 | Sheet 8 of 32


HUDSON-M3
Part 1 of 5
RTC Circuitry(RTC)
B2A
Card Reader
Ramp 0223:
Remove RP3,RP4, AddR461, R462, R463, R464
Note: CLK_FCH_SRCP/N is 100MHZ SSC
Note: CLK_DP_NSSCP/N is 100MHZ non-SSC
Note: CLK_PCIE_TRAVISP/N is 100MHZ non-SSC
Note: CLK_APU_HCLKP/N is 100MHZ SSC
Note: CLK_PCIE_VGAP/N is 100MHZ SSC
Note: GPP_CLK(8:8)P/N is 100MHZ SSC capable
20120110:
Change R364 from 22_4 to 33_4-->for slewrate issue
20120112:
Change R359 from 22_4 to 33_4-->follow vender suggestion
For EMI
Net GPIO I/O Power Well DOS
PE_PWRGD GPIO28 DGPU_PWRGD I +3.3V "0->1"
PE_GPIO0 GPIO44 DGPU_RST# O +3.3V "0->1"
PE_GPIO1 GPIO45 DGPU_PWREN O +3.3V "0->1"
Quanta Computer Inc.
PROJECT : ZQZ
FCH 2/5(ACPI/PCI/CLK)
Thursday, February 23, 2012

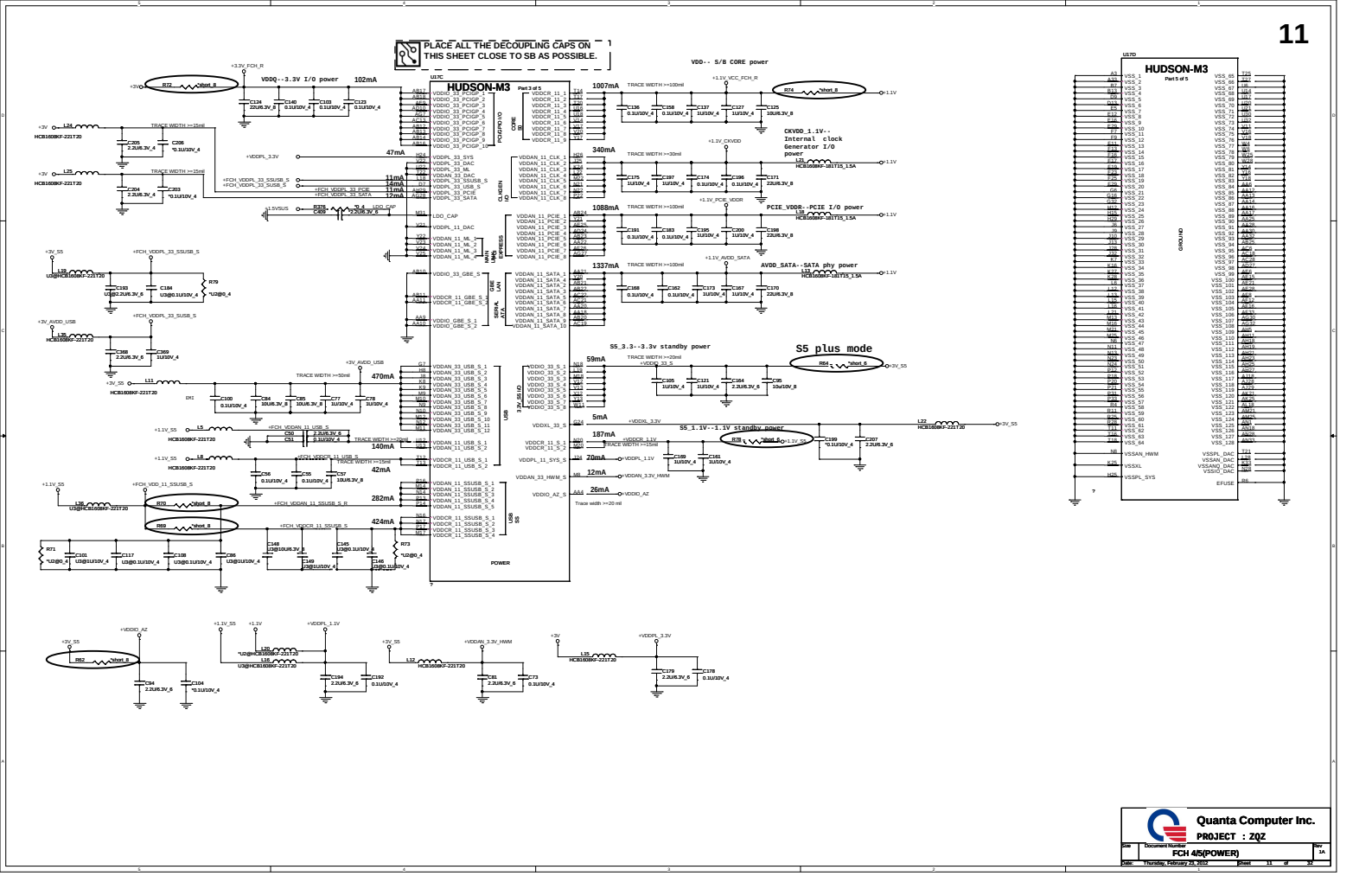


BOARD ID SETTING

BOARD_ID1	LCD
0	eDP
1	LVDS

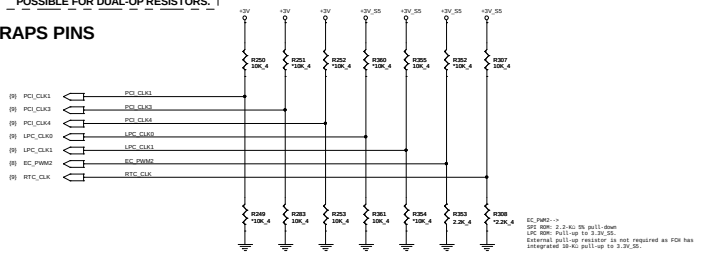
BOARD_ID2	BOARD_ID3	For TP
0	1	ALPS
1	0	ELAN
1	1	Synaptics

Quanta Computer Inc.	
PROJECT : ZQZ	
Size	Document Number: FCH 3/5(SATA/VGA/GND/SPI) — Rev: 1A
Date: Thursday, February 23, 2012	Sheet 10 of 32


PLACE ALL THE DECOUPLING CAPS ON THIS SHEET CLOSE TO SB AS POSSIBLE.
HUDSON-M3
Part 3 of 5
VDDQ--3.3V I/O power
102mA
VDD-- S/B CORE power
1007mA
CKVDD_1.1V-- Internal clock Generator I/O power
340mA
PCIE_VDDR-- PCIE I/O power
1088mA
AVDD_SATA--SATA phy power
1337mA
S5_3.3--3.3v standby power
59mA
S5 plus mode
S5_1.1V--1.1V standby power
187mA
5mA
70mA
12mA
26mA
47mA
11mA
14mA
11mA
12mA
470mA
140mA
42mA
282mA
424mA
HUDSON-M3
Part 5 of 5

OVERLAP COMMON PADS WHERE POSSIBLE FOR DUAL-OP RESISTORS.

STRAPS PINS

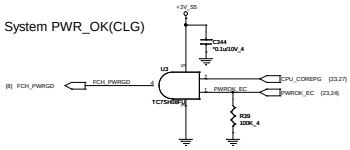


Remove PCI_CLK2 function

REQUIRED STRAPS

	*********	PCI_CLK1	PCI_CLK2	PCI_CLK3	PCI_CLK4	LPC_CLK0	LPC_CLK1	EC_PWM2	RTC_CLK
PULL HIGH	*********	ALLOW PCIE Gen2 DEFAULT	*********	USE DEBUG STRAP	non_Fusion CLOCK MODE	EC ENABLED	CLKGEN ENABLED DEFAULT	LPC ROM	S5 PLUS MODE DISABLED DEFAULT
PULL LOW	*********	FORCE PCIE Gen1	*********	IGNORE DEBUG STRAP DEFAULT	FUSION CLOCK MODE DEFAULT	EC DISABLED DEFAULT	CLKGEN DISABLED	SPI ROM DEFAULT	S5 PLUS MODE ENABLED

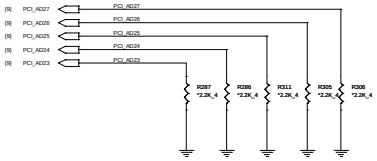
System PWR_OK(CLG)



FCH PWRGD CKT

DEBUG STRAPS

FCH HAS 15K INTERNAL PU FOR PCI_AD[27:23]



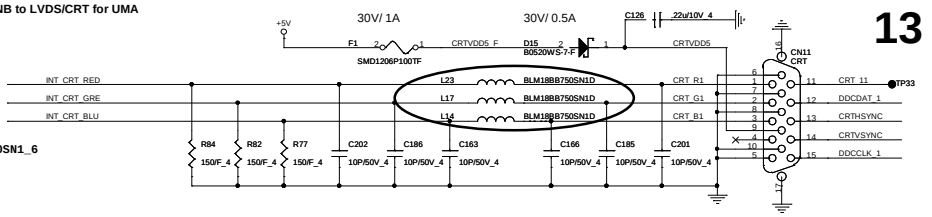
	PCI_AD27	PCI_AD26	PCI_AD25	PCI_AD24	PCI_AD23
PULL HIGH	USE PCI PLL DEFAULT	DISABLE ILA AUTORUN DEFAULT	USE FC PLL DEFAULT	USE DEFAULT PCIE STRAPS DEFAULT	DISABLE PCI MEM BOOT DEFAULT
PULL LOW	BYPASS PCI PLL	ENABLE ILA AUTORUN	BYPASS FC PLL	USE EEPROM PCIE STRAPS	ENABLE PCI MEM BOOT

Quanta Computer Inc.
PROJECT : ZQZ
Size | Document Number: FCH 5/5(STRAP & PWRGD) | Rev: 1A
Date: Thursday, February 23, 2012 | Sheet 12 of 32

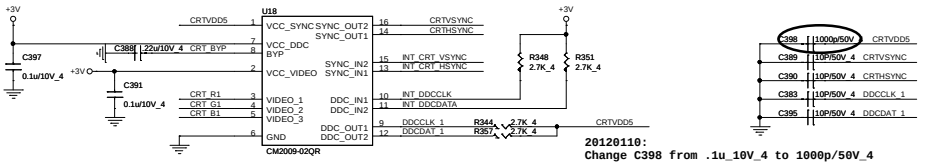
CRT

OPTION SIGNAL FROM NB to LVDS/CRT for UMA

{4} INT_DDCCLK — INT_DDCCLK
{4} INT_DDCDATA — INT_DDCDATA
{4} INT_CRT_HSYNC — INT_CRT_HSYNC
{4} INT_CRT_VSYNC — INT_CRT_VSYNC
{4} INT_CRT_RED — INT_CRT_RED
{4} INT_CRT_GRE — INT_CRT_GRE
{4} INT_CRT_BLU — INT_CRT_BLU

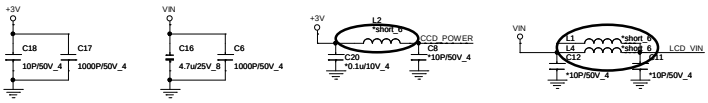


20120110:
Change L14, L17, L23 from BLM18BA470SN1_6 to BLM18BB750SN1D

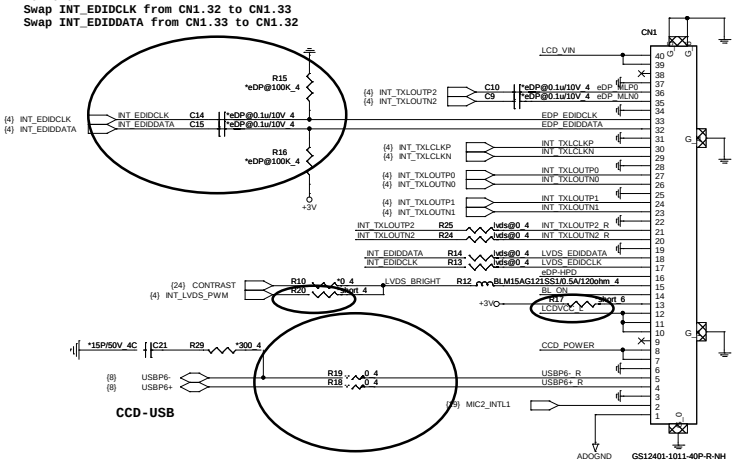


20120110:
Change C398 from .1u_10V_4 to 1000p/50V_4

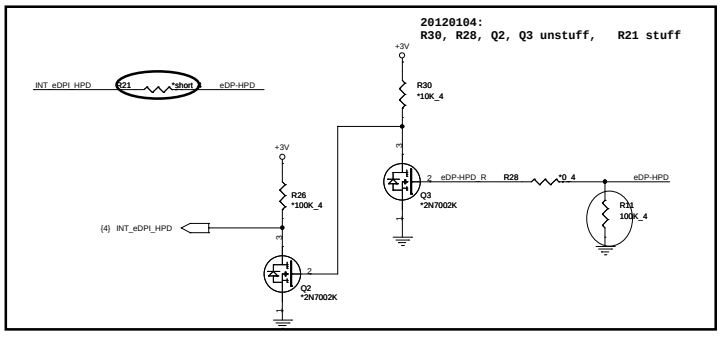
LVDS(LDS)



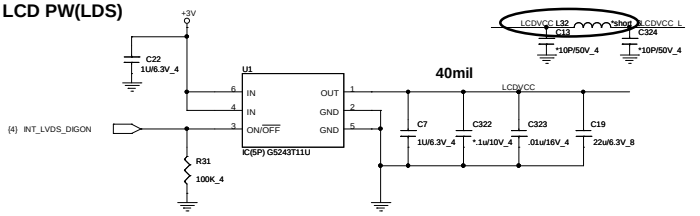
20120104:
Swap INT_EDIDCLK from CN1.32 to CN1.33
Swap INT_EDIDDATA from CN1.33 to CN1.32



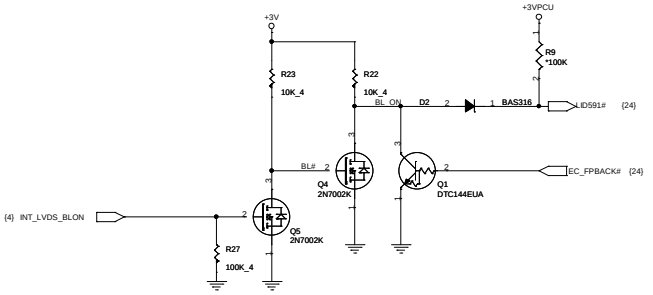
Ramp 0221:
Remove L3



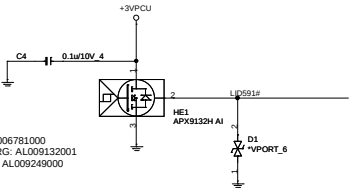
LCD PW(LDS)



Backlight Control(LDS)



Lid Switch (HSR)



EM-6781-T3: AL006781000
APX9132H AI-TRG: AL009132001
AH9249NTR-G1: AL009249000

Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	CRT/LVDS/LID	1A
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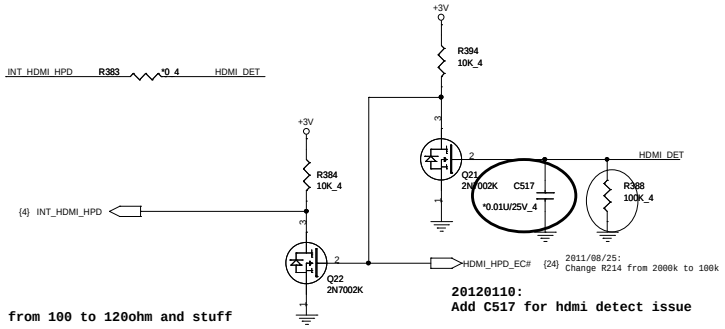
HDMI SDVO I2C Control

{4} HDMI_DDCDATA
{4} HDMI_DDCCLK
HDMI_DDCDATA
HDMI_DDCCLK

HDMI HPD SENSE (HDM)

UMA use +3V for the detect pin
Dis use +3V_DELAY for the detect pin

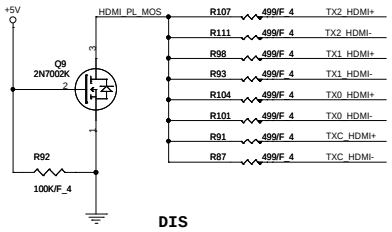


20120110:
Add C517 for hdmi detect issue

HDMI (HDM)

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

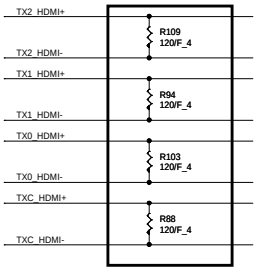
Close to HDMI Connector



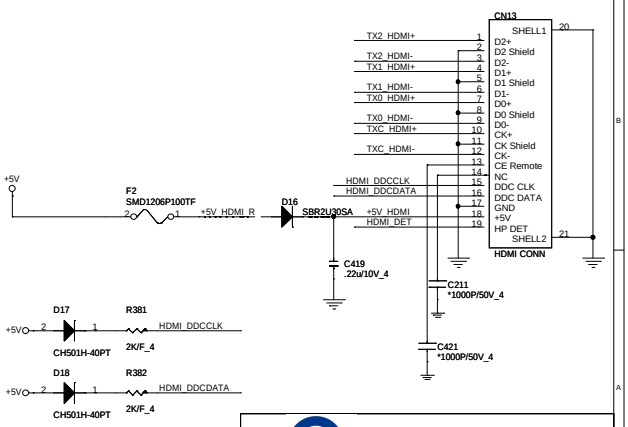
DIS
Stuff 499 ohm CS14992FB24

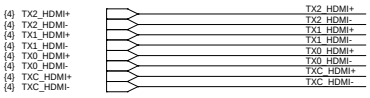
EMI reserve for HDMI(EMC)

Close connector



HDMI PORT (HDM)

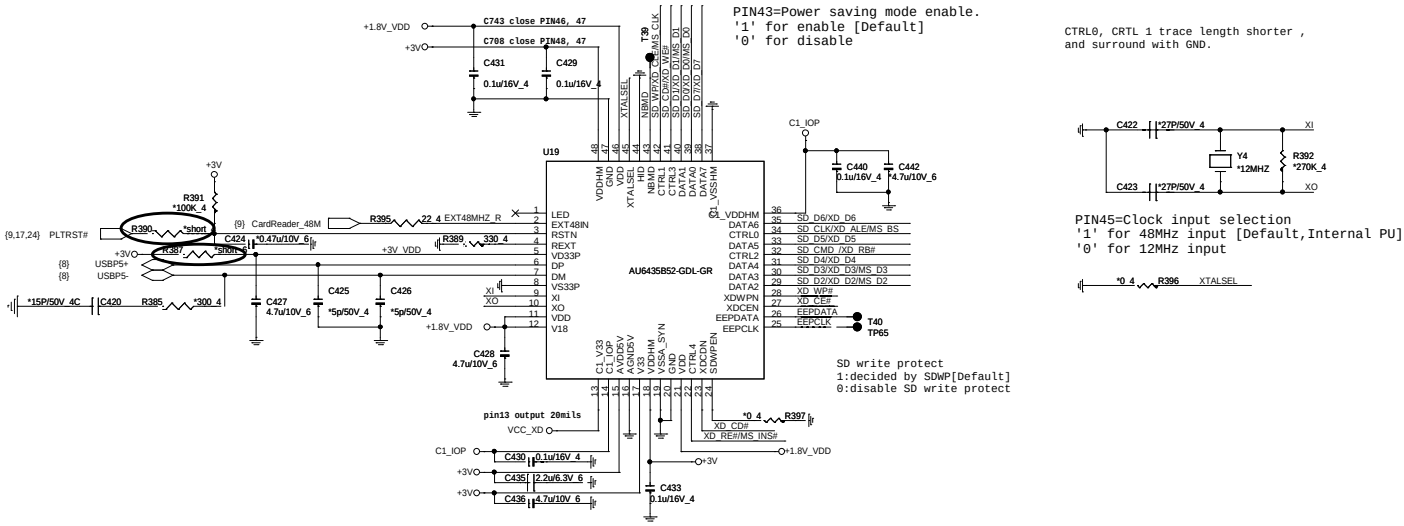




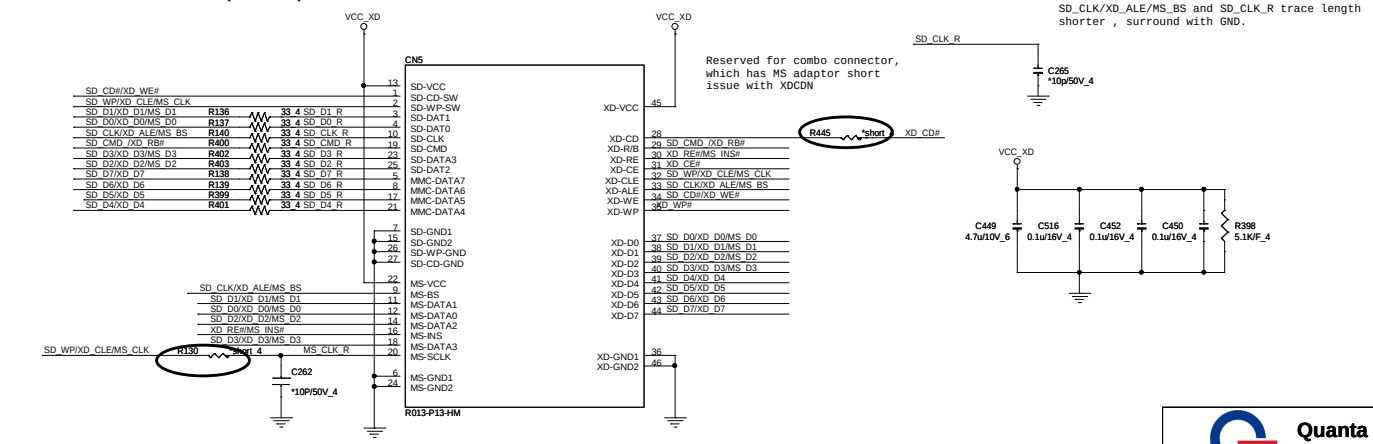
Quanta Computer Inc.
PROJECT : ZQZ

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

5 in 1 CARD READER IC (SD,MMC,xD,MS)



5 IN 1 CARD READER CONN (SD/MMC)



Quanta Computer Inc.			
PROJECT : ZQZ			
Size	Document Number		Rev
	AU6433 CardReader		1A
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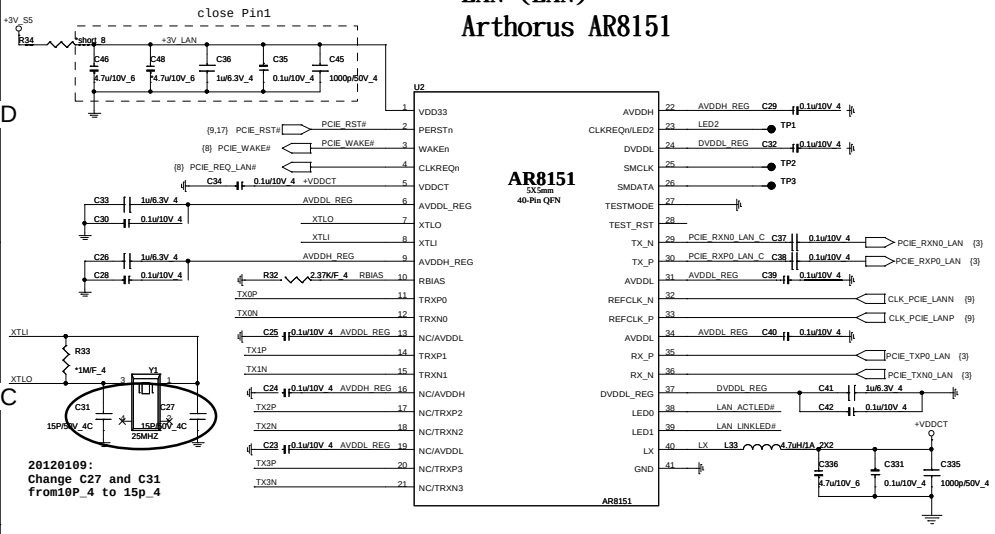
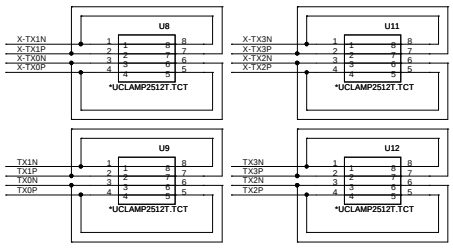
LAN (LAN)
Arthorus AR8151

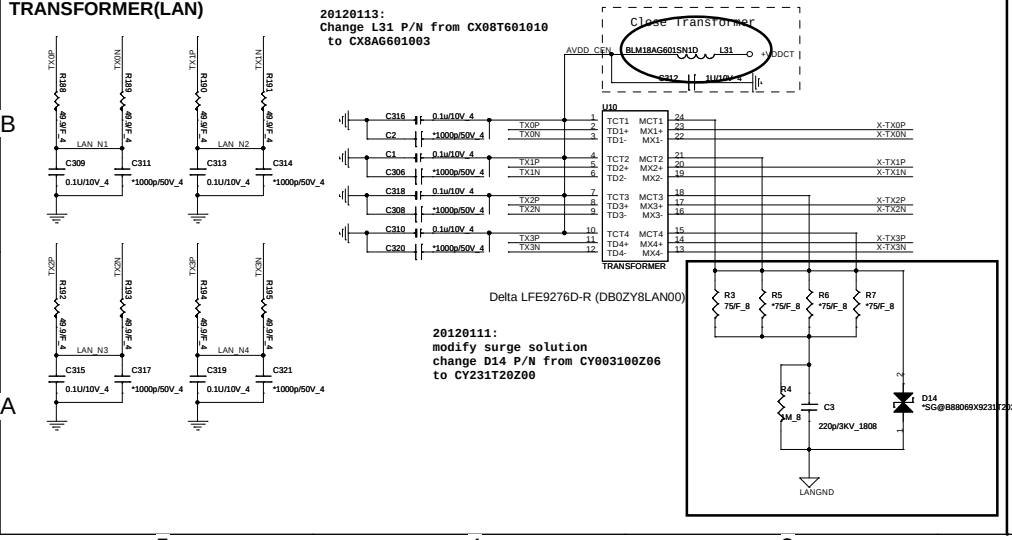


20120109:
Change C27 and C31
from10P_4 to 15p_4



16

TRANSFORMER(LAN)

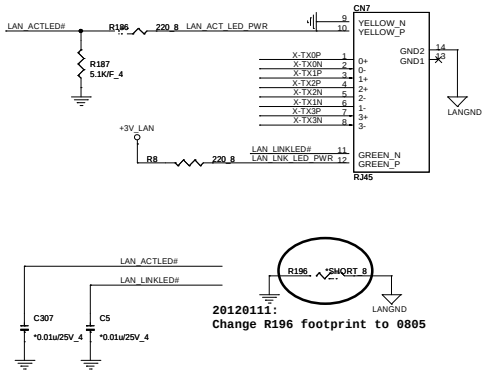


20120113:
Change L31 P/N from CX08T601010
to CX8AG601003

Delta LFE9276D-R (DB0ZY8LAN00)

20120111:
modify surge solution
change D14 P/N from CY003100Z06
to CY231T20Z00

RJ45(LAN)



20120111:
Change R196 footprint to 0805

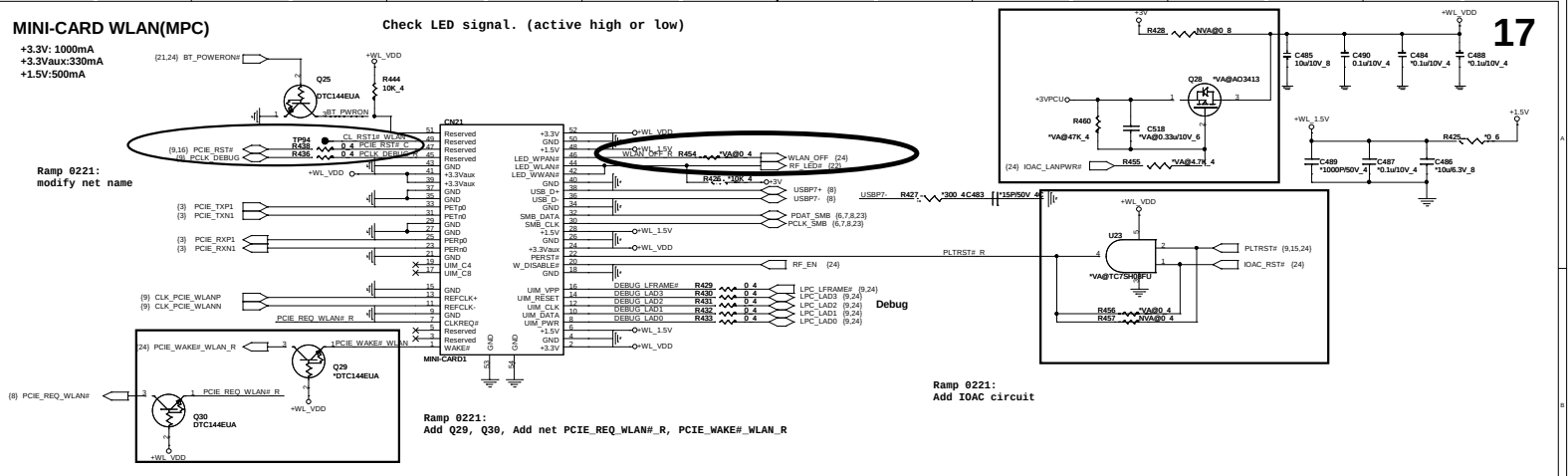
Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	LAN (AR8151)	1A
Date: Thursday, February 23, 2012	Sheet 16 of 32	

MINI-CARD WLAN(MPC)

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

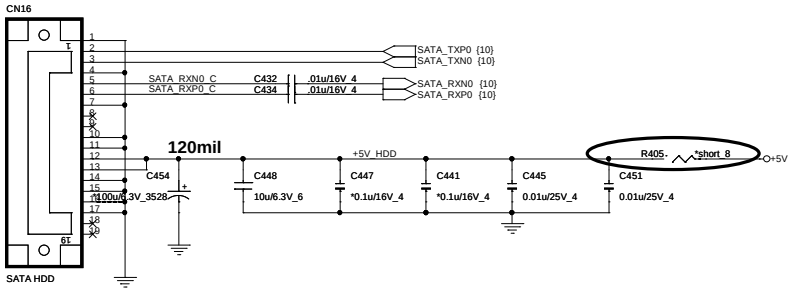
Check LED signal. (active high or low)



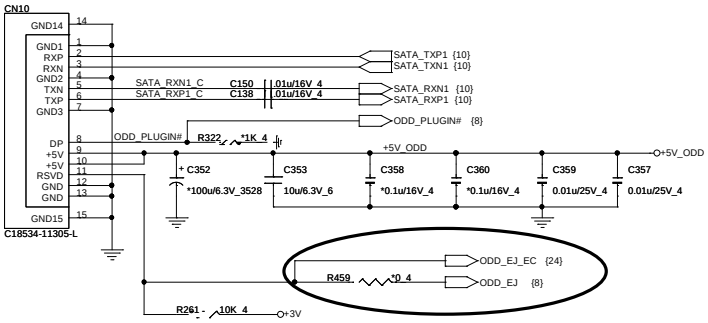
mSATA

Quanta Computer Inc.		
PROJECT : ZQZ		
Size	Document Number: MINI PCI-E card	Rev 1A
Date: Thursday, February 23, 2012	Sheet 17 of 32	

SATA HDD

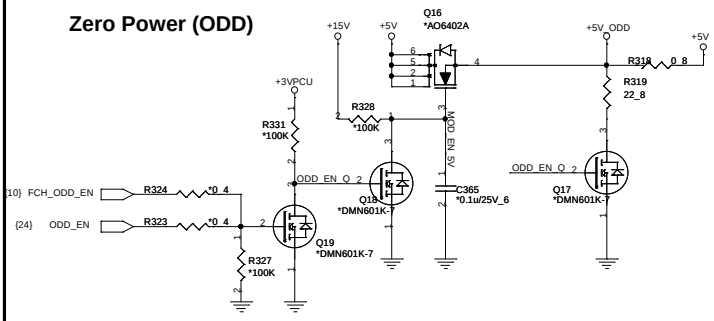


SATA ODD



Ramp 0221:
Add R459

Zero Power (ODD)

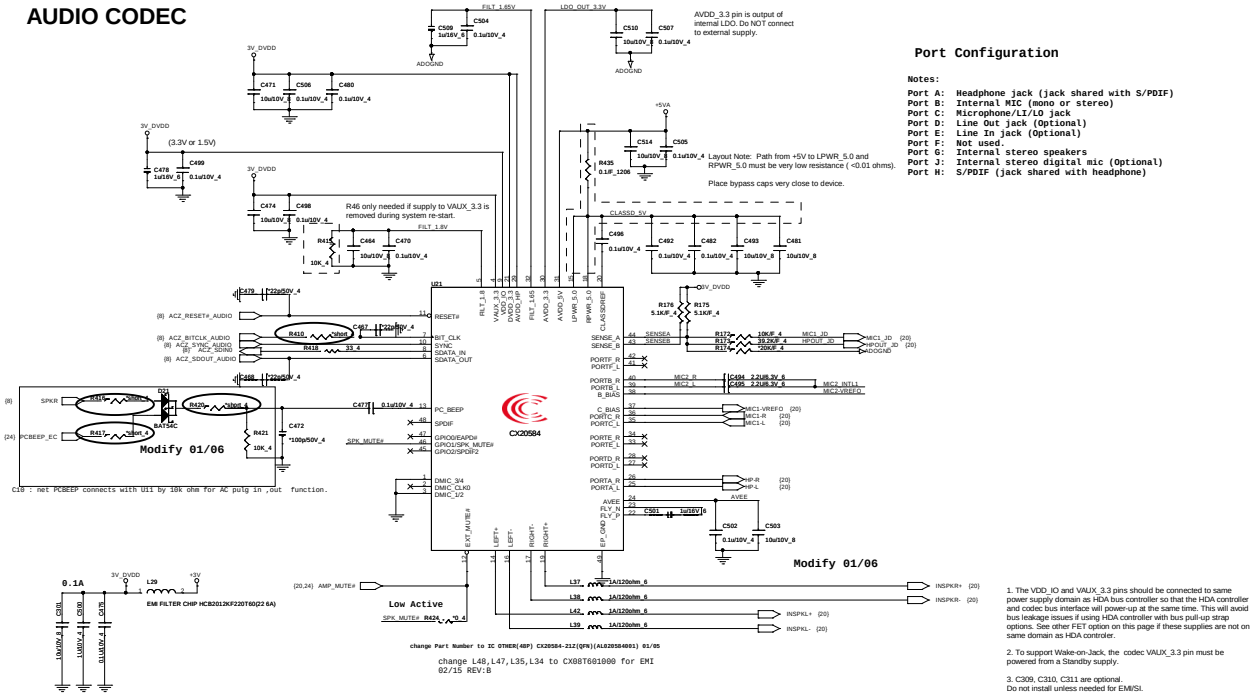


Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	SATA-HDD/ODD/HOLE	1A

Date: Thursday, February 23, 2012 Sheet 18 of 32

AUDIO CODEC



Port Configuration

Notes:

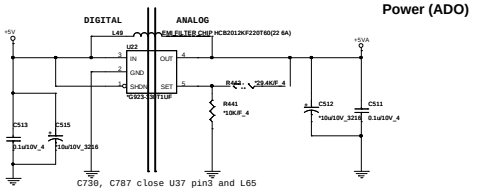
Port A: Headphone jack (jack shared with S/PDIF)
Port B: Internal MIC (mono or stereo)
Port C: Microphone/LI/LO jack
Port D: Line Out jack (Optional)
Port E: Line In jack (Optional)
Port F: Not used.
Port G: Internal stereo speakers
Port J: Internal stereo digital mic (Optional)
Port H: S/PDIF (jack shared with headphone)

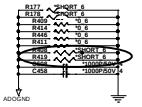
1. The VDD_IO and VAUX_3.3 pins should be connected to same power supply domain as HDA bus controller so that the HDA controller and codec bus interface will power-up at the same time. This will avoid bus leakage issues if using HDA controller with bus pull-up strap options. See other FET option on this page if these supplies are not on same domain as HDA controller.

2. To support Wake-on-Jack, the codec VAUX_3.3 pin must be powered from a Standby supply.

3. C309, C310, C311 are optional.
Do not install unless needed for EMI/SI.

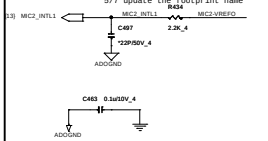
Power (ADO)





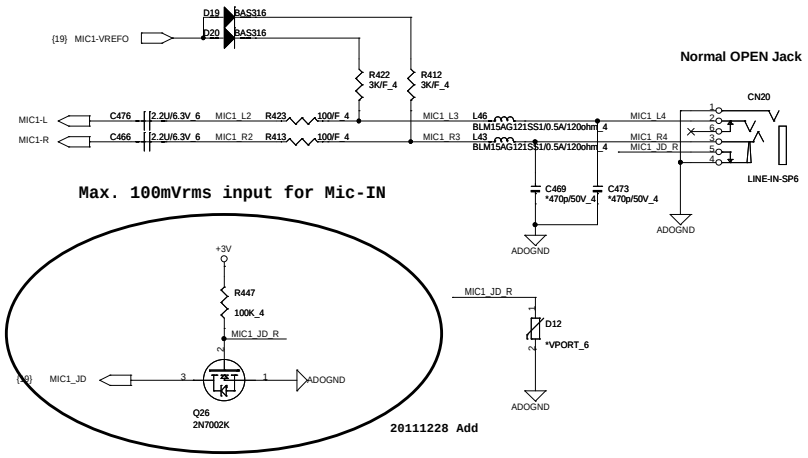
INT MIC array

5/7 update the footprint name



Quanta Computer Inc.		
PROJECT : ZQZ		
Size	Document Number	Rev
	CONEXANT 20584	1A
Date: Thursday, February 23, 2012	Sheet 19 of 32	

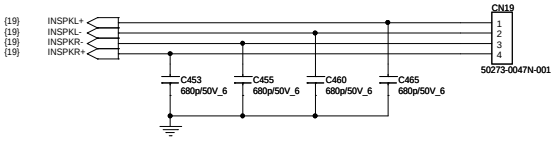
MIC



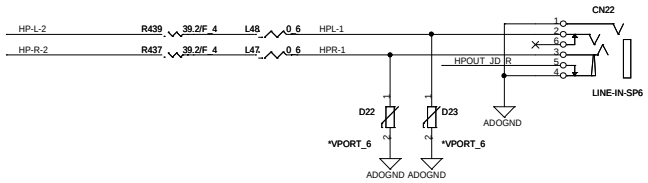
Max. 100mVrms input for Mic-IN

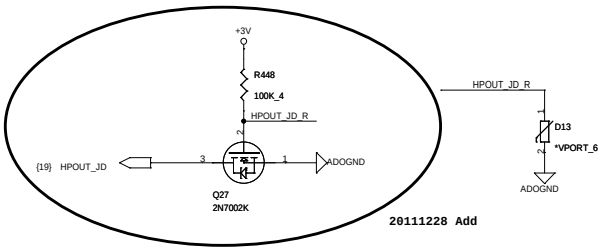
20111228 Add

Internal Speaker

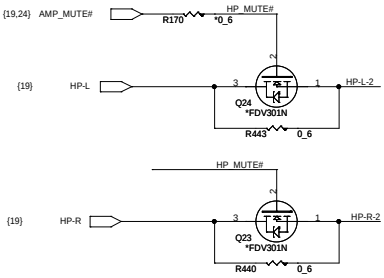


HP





20111228 Add



Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	AUDIO JACK CONN	1A
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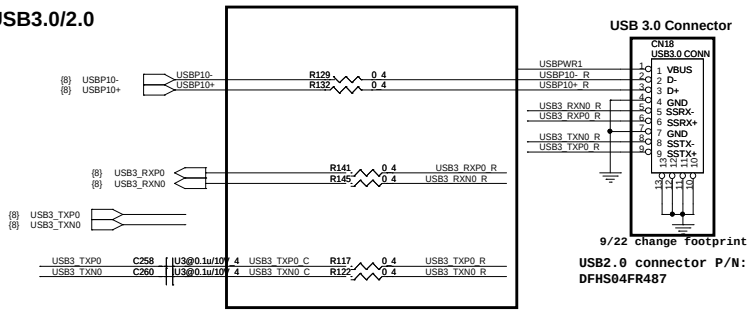
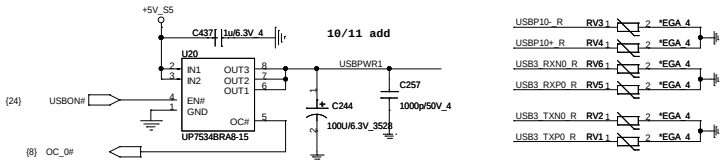
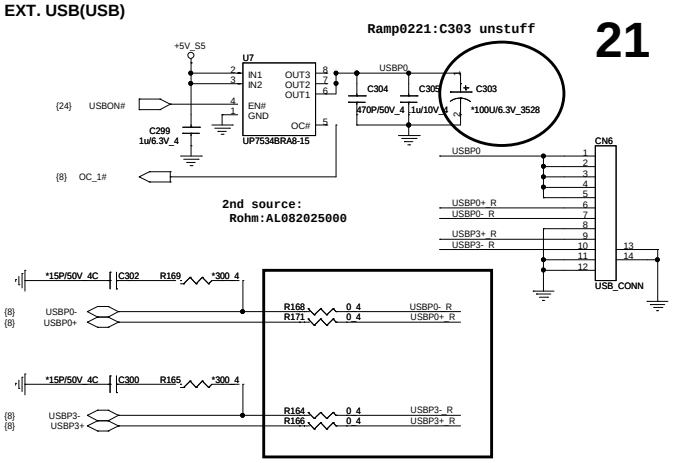
USB3.0/2.0



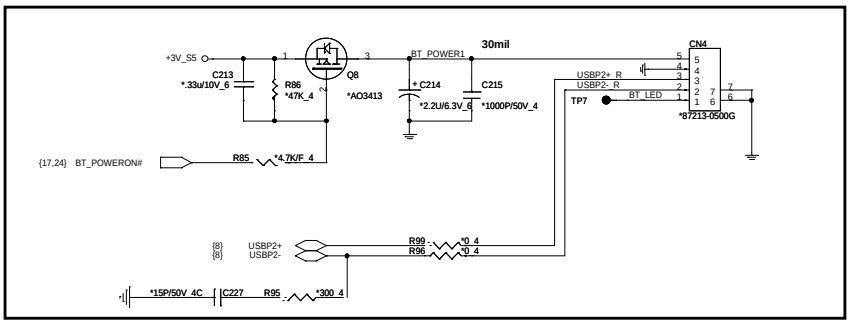
1st source: AL007534000
2ns source: AL082025000



EXT. USB(USB)



BLUETOOTH V3.0 CONN(BTM)



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

Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	USB/BT	1A
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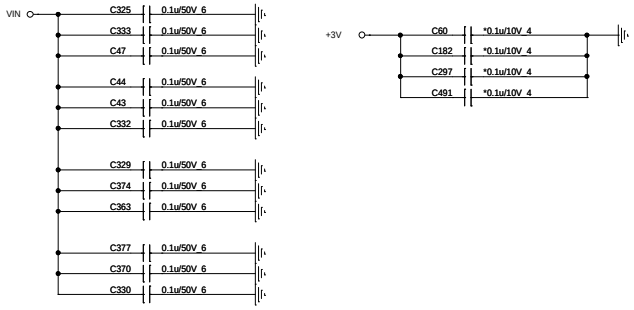
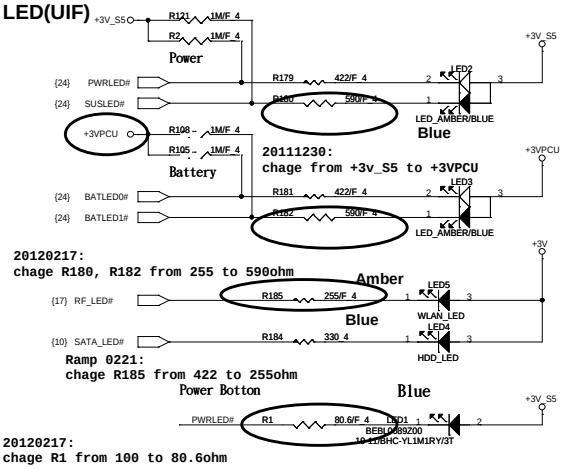
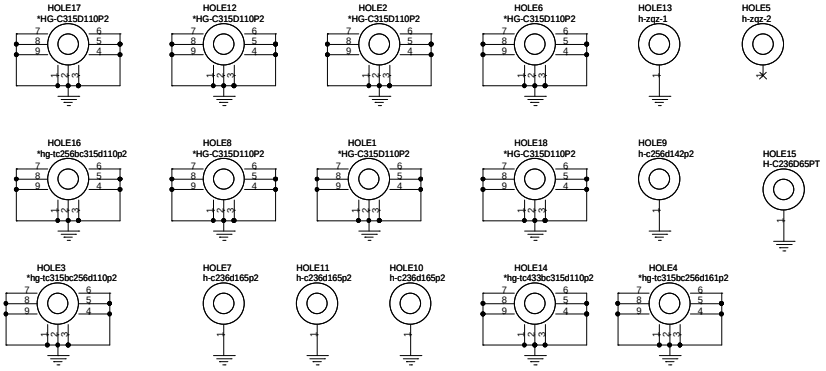
EE RETURN-PATH CAPACITORS(EMC)



LED(UIF)



HOLE(OTH)



Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	29 -- LED/ EMI/ Screw Hole& Nut	1A
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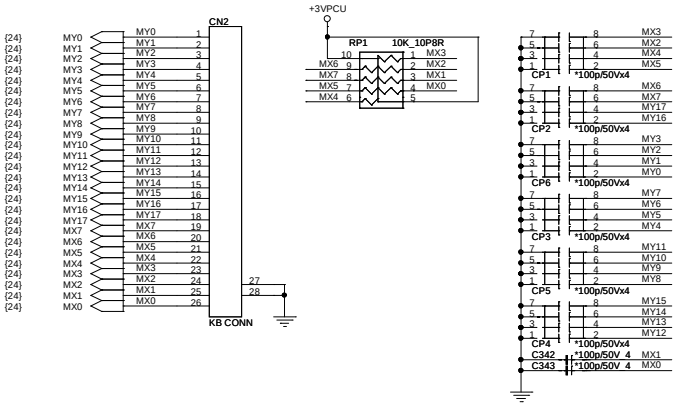
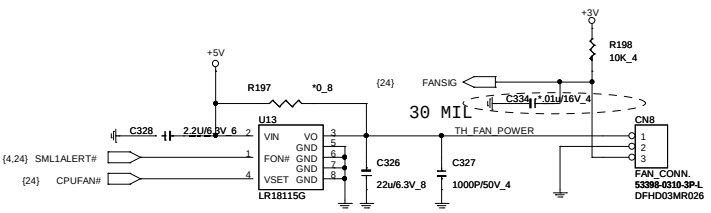
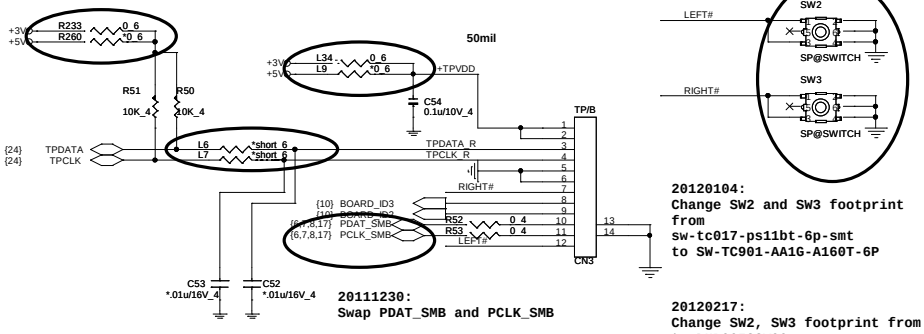
K/B(KBC)



CPU FAN(THM)



TOUCHPAD BOARD CONN(TPD)



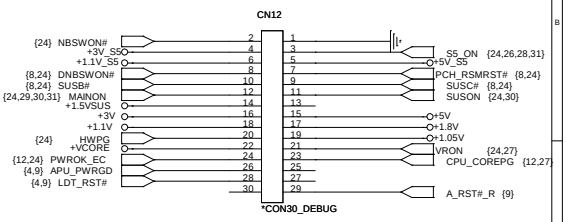
20111230:
Swap PDAT_SMB and PCLK_SMB

20120104:
Change SW2 and SW3 footprint from
sw-tc017-ps11bt-6p-smt
to SW-TC901-AA1G-A160T-6P

20120217:
Change SW2, SW3 footprint from DHP00AC1G01
to DHP00532W00

Power Sequence

0903--Add Connecotr



Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	30 -- KB/TP/FAN	1A
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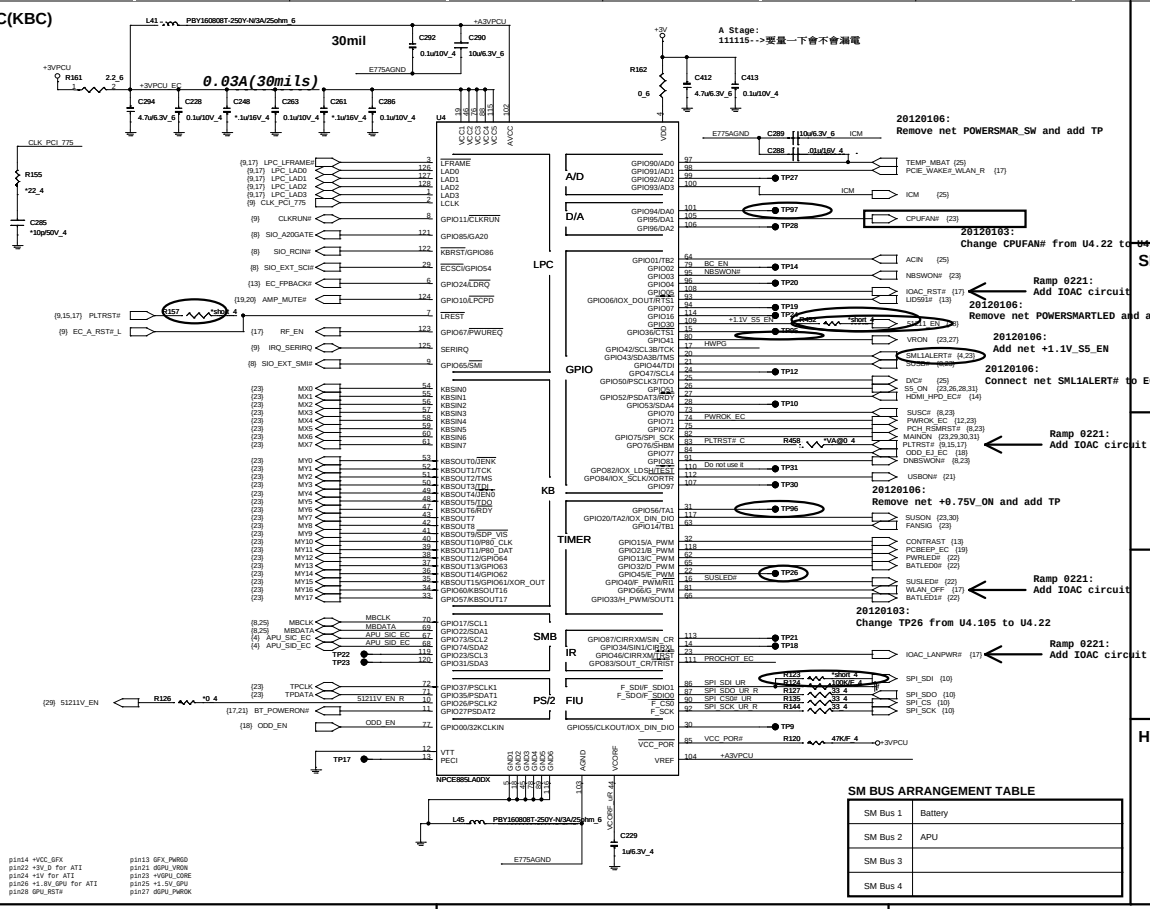
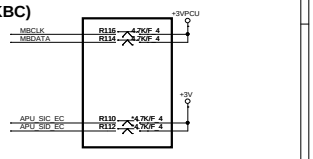
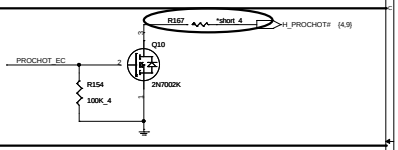
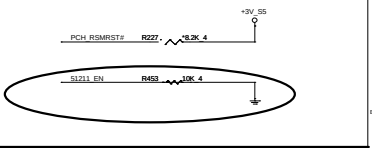
EC(KBC)



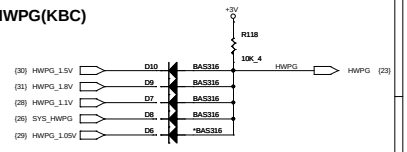
SM BUS PU(KBC)







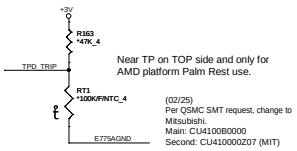
HWPG(KBC)



SM BUS ARRANGEMENT TABLE

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

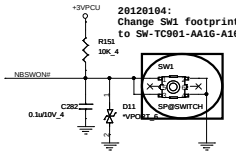
PALM REST THERMAL SENSOR (THM)



Near TP on TOP side and only for AMD platform Palm Rest use.

(02/25)
Per QSMC SMT request, change to Mitsubishi.
Main: CU4100B0000
Second: CU410000Z07 (MIT)

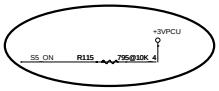
POWER-ON SWITCH (KBC)



20120104:
Change SW1 footprint from sw-tc017-ps11bt-6p-smt
to SW-TC901-AA1G-A160T-6P

20120217:
Change SW1 footprint from DHP00AC1G01 to DHP00532W00

Ramp 0221:
chage SW1 P/N from DHP00AC1G01 to DHP00533B00



Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	EC NPCE795CA0DX	1A

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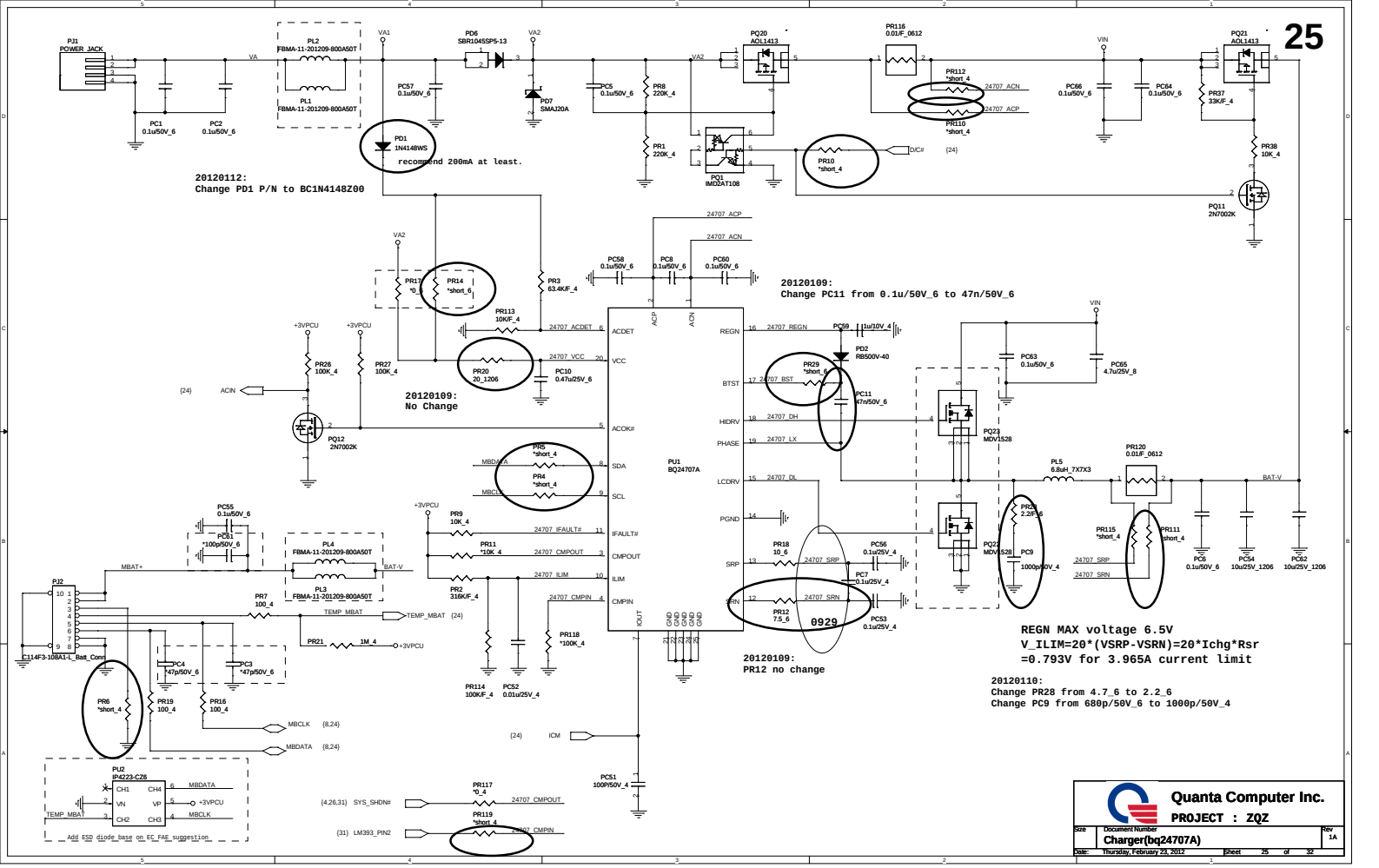
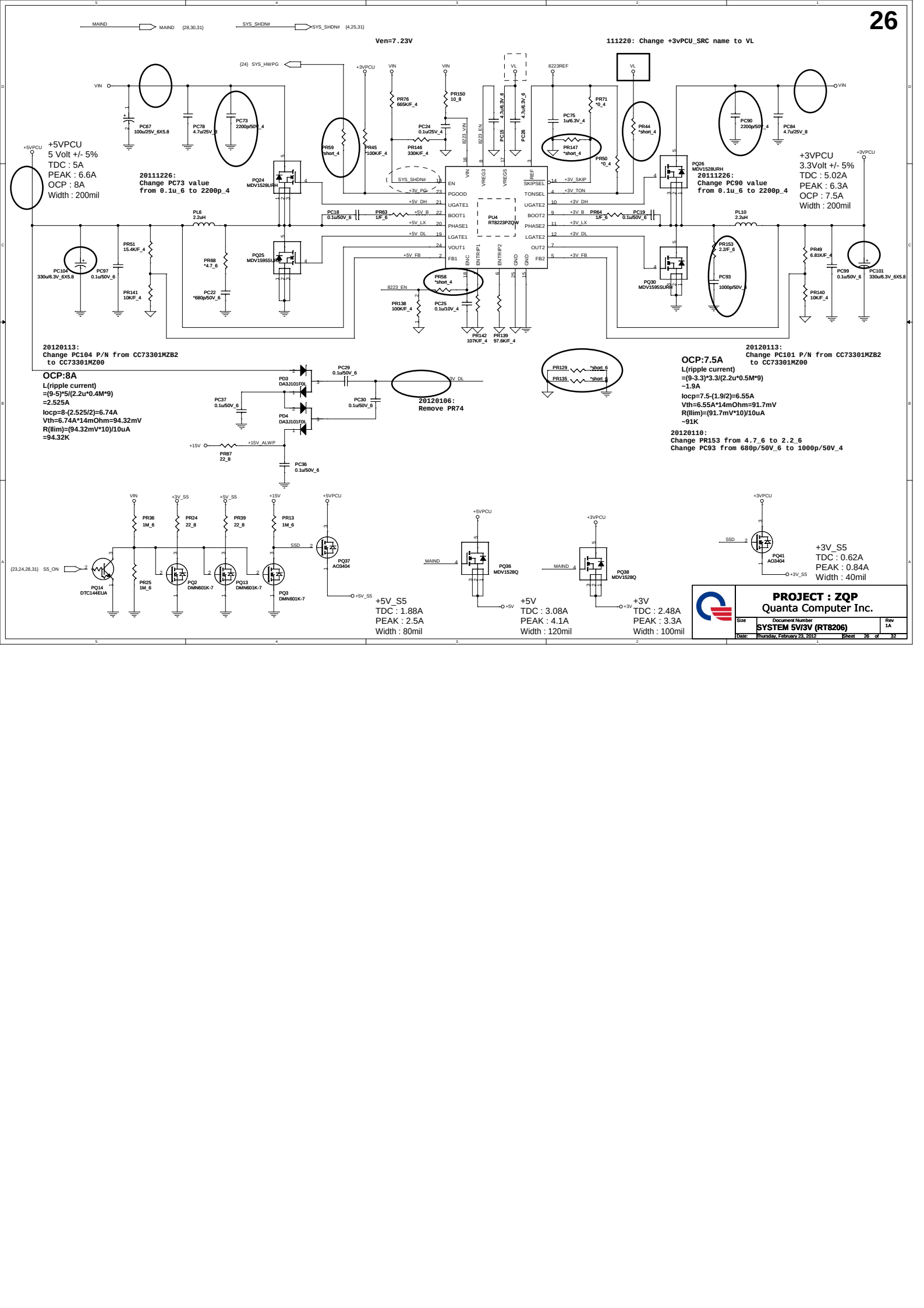


Quanta Computer Inc.
PROJECT : ZQZ

Size	Document Number	Rev
	Charger(bq24707A)	1A
Date: Thursday, February 23, 2012	Sheet 25 of 32	


MAIND
MAIND (28,30,31)
SYS_SHDN#
SYS_SHDN# (4,25,31)
Ven=7.23V
111220: Change +3vPCU_SRC name to VL
+5VPCU
5 Volt +/- 5%
TDC : 5A
PEAK : 6.6A
OCP : 8A
Width : 200mil
20111226:
Change PC73 value
from 0.1u_6 to 2200p_4
+3VPCU
3.3Volt +/- 5%
TDC : 5.02A
PEAK : 6.3A
OCP : 7.5A
Width : 200mil
20111226:
Change PC90 value
from 0.1u_6 to 2200p_4
RT8223PZQW
20120113:
Change PC104 P/N from CC73301MZB2
to CC73301MZ00
20120113:
Change PC101 P/N from CC73301MZB2
to CC73301MZ00
OCP:8A
L(ripple current)
=(9-5)*5/(2.2u*0.4M*9)
=2.525A
Iocp=8-(2.525/2)=6.74A
Vth=6.74A*14mOhm=94.32mV
R(Ilim)=(94.32mV*10)/10uA
=94.32K
20120106:
Remove PR74
OCP:7.5A
L(ripple current)
=(9-3.3)*3.3/(2.2u*0.5M*9)
~1.9A
Iocp=7.5-(1.9/2)=6.55A
Vth=6.55A*14mOhm=91.7mV
R(Ilim)=(91.7mV*10)/10uA
~91K
20120110:
Change PR153 from 4.7_6 to 2.2_6
Change PC93 from 680p/50V_6 to 1000p/50V_4
+5V_S5
TDC : 1.88A
PEAK : 2.5A
Width : 80mil
+5V
TDC : 3.08A
PEAK : 4.1A
Width : 120mil
+3V
TDC : 2.48A
PEAK : 3.3A
Width : 100mil
+3V_S5
TDC : 0.62A
PEAK : 0.84A
Width : 40mil
PROJECT : ZQP
Quanta Computer Inc.
SYSTEM 5V/3V (RT8206)
Thursday, February 23, 2012
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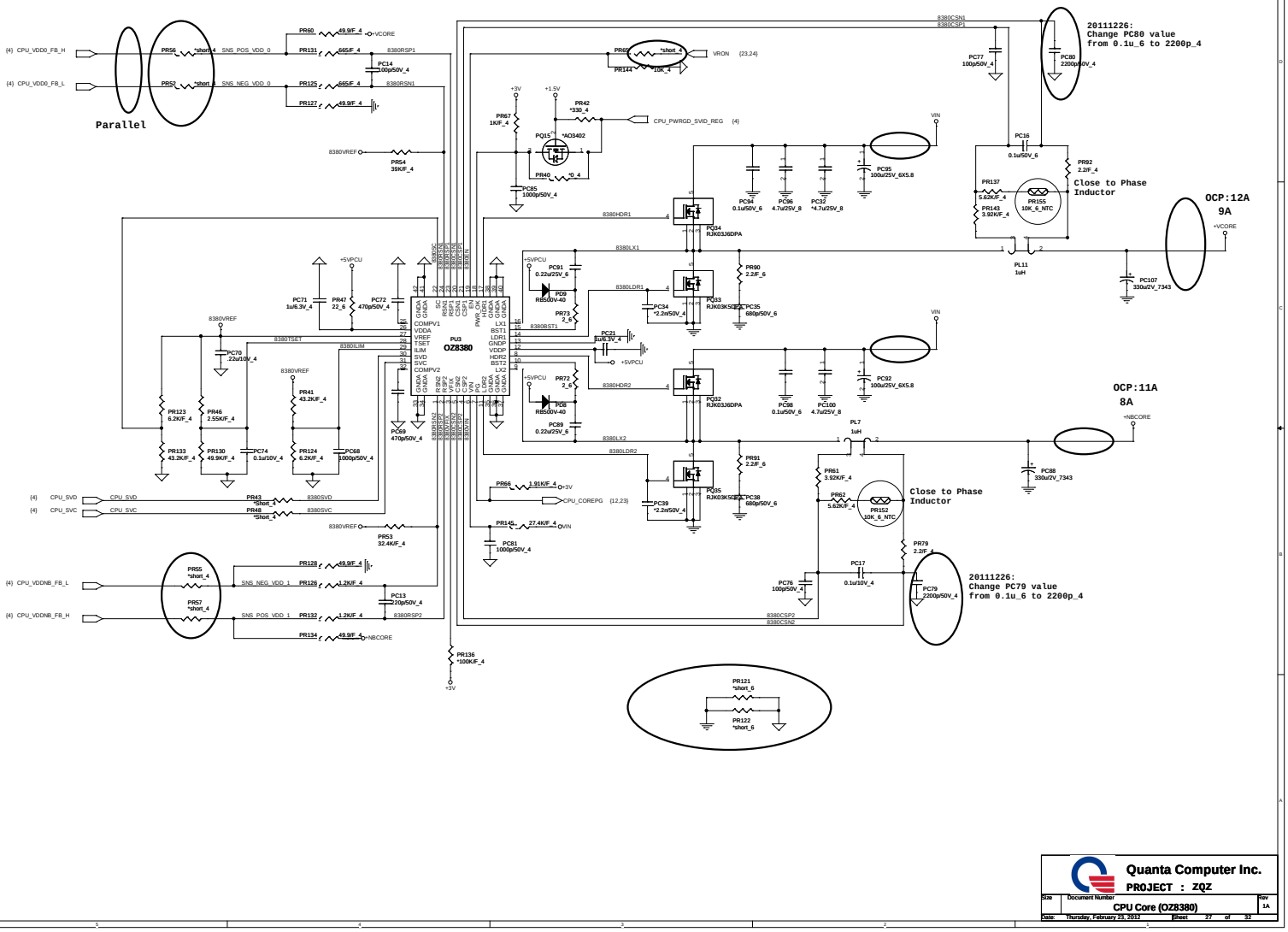

Quanta Computer Inc.			
PROJECT : ZQZ			
Size	Document Number		Rev
	CPU Core (OZ8380)		1A
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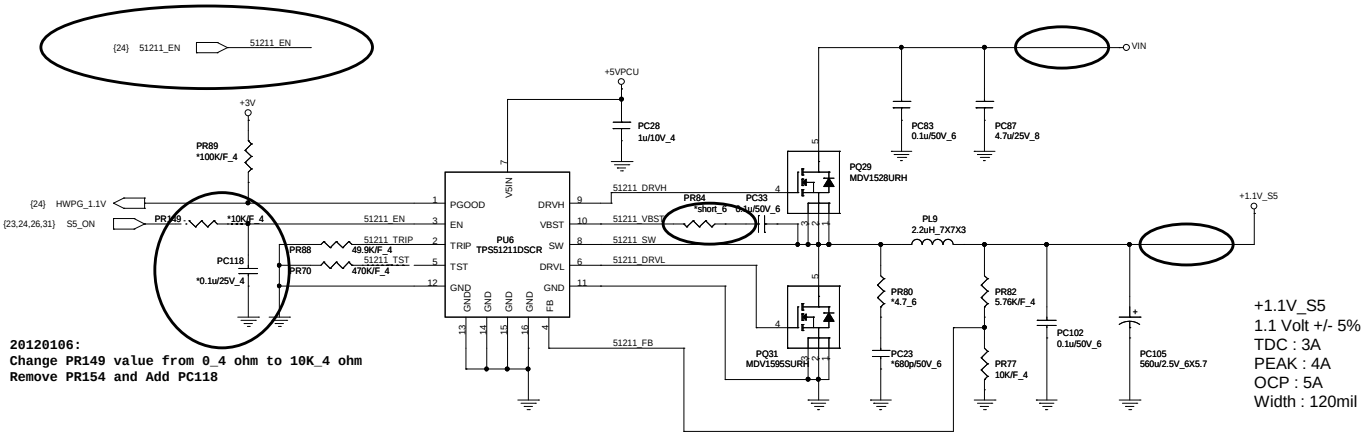
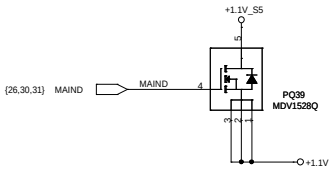
20120106:
Add net +1.1V_S5_EN to EC and add R452



+1.1V_S5
1.1 Volt +/- 5%
TDC : 3A
PEAK : 4A
OCP : 5A
Width : 120mil

20120106:
Change PR149 value from 0_4 ohm to 10K_4 ohm
Remove PR154 and Add PC118

OCP=5A
L ripple current
=(19-1.1)*1.1/(2.2u*290k*19)
=1.624A
Vtrip=5-(1.624/2)*14mohm
=0.058629V
Rlimit=0.058629/10uA*8=46.9Kohm



+1.1V
TDC : 2.73A
PEAK : 3.64A
Width : 120mil

Quanta Computer Inc.		
PROJECT : ZQZ		
Size	Document Number: VCCP 1.1V(TPS51211)	Rev: 1A
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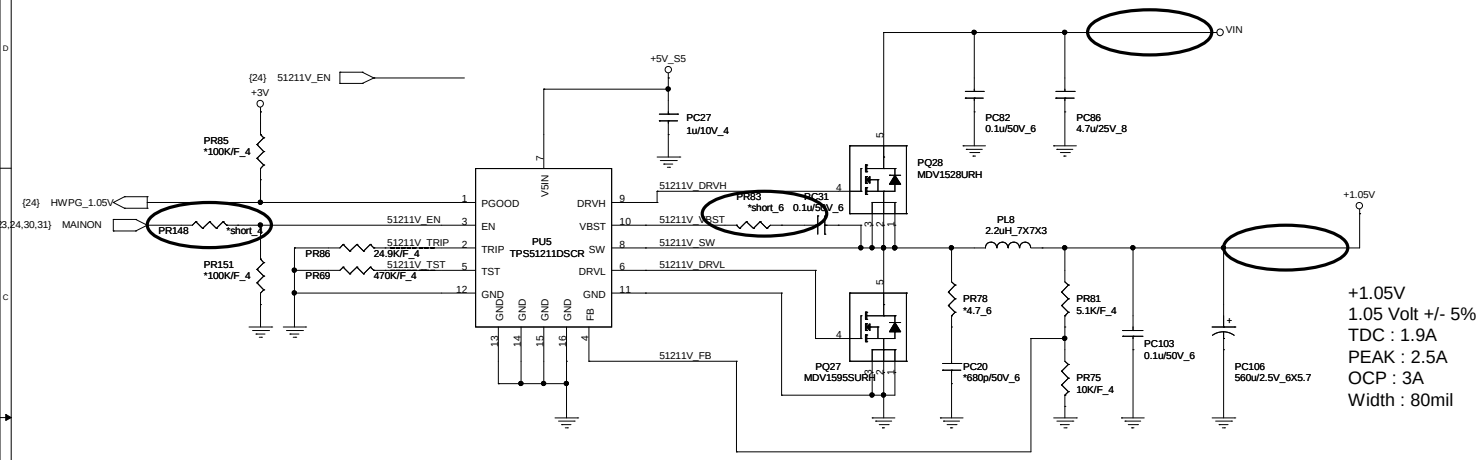

+1.05V
1.05 Volt +/- 5%
TDC : 1.9A
PEAK : 2.5A
OCP : 3A
Width : 80mil

OCP=3A
L ripple current
=(19-1.05)*1.05/(2.2u*290k*19)
=1.555A
Vtrip=3-(1.555/2)*14mohm
=0.03111V
Rlimit=0.03111/10uA*8=24.89Kohm

Quanta Computer Inc. PROJECT : ZQZ		
Size	Document Number: +1.05V(TPS51211)	Rev: 1A
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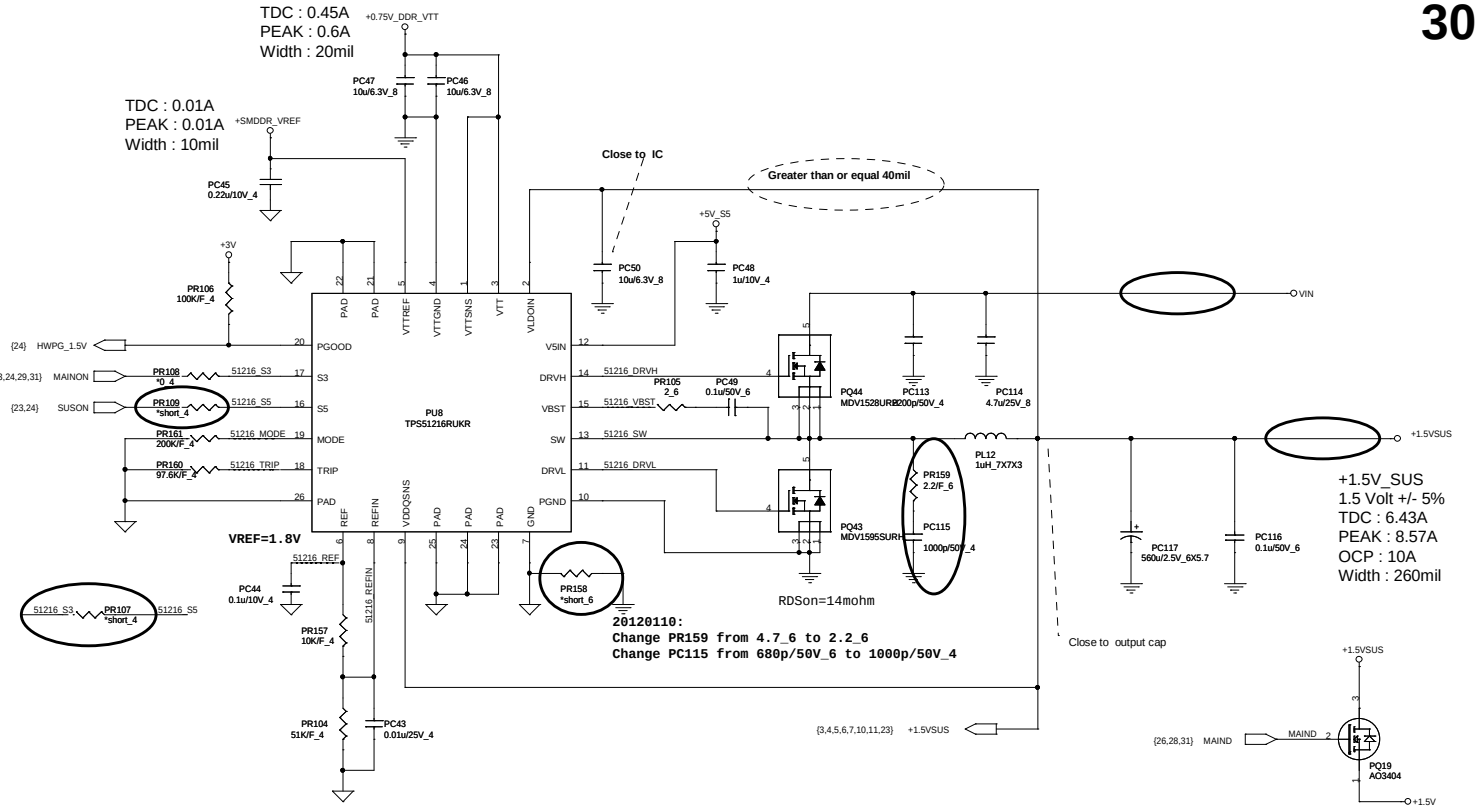

OCP=10A
L ripple current
=(19-1.5)*1.5/(1u*400k*19)
=3.454A
Vtrip=10-(3.454/2)*14mohm
=0.1158V
Rlimit=0.1158/10uA*8=92.657Kohm

	S3	S5	+1.5VSUS	REF	VTT
S0	1	1	ON	ON	ON
S3 (mainon off)	0	1	ON	ON	OFF
S4/S5	0	0	OFF	OFF	OFF

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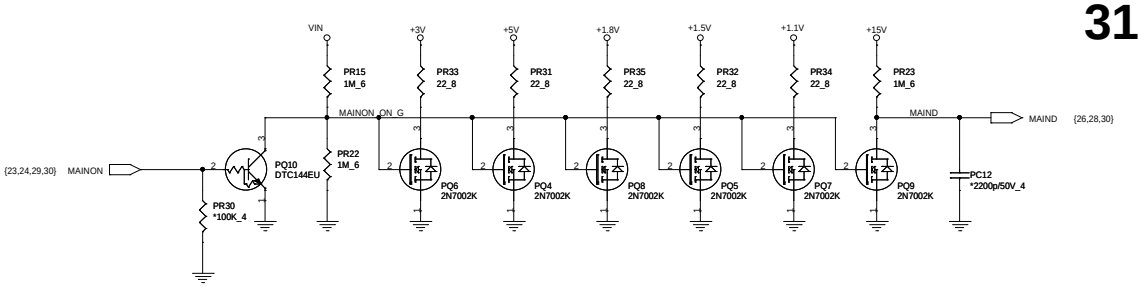
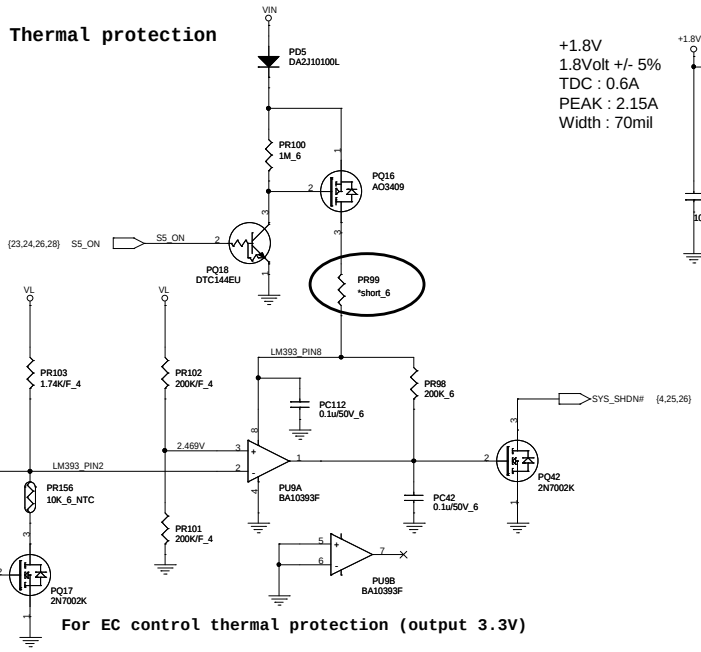
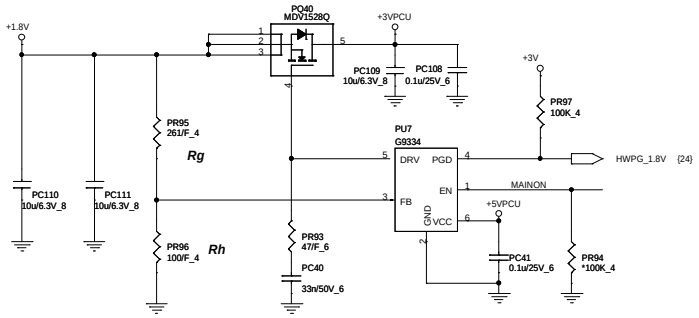


Thermal protection



For EC control thermal protection (output 3.3V)

+1.8V
1.8Volt +/- 5%
TDC : 0.6A
PEAK : 2.15A
Width : 70mil



*Vout1 = (1+Rg/Rh)*0.5*

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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
			3	1A / 3A
	B	111220: page26--Change PR44 net from +3VPCU_SRC name to VL	4	1A / 3A
		111220: Change all TP footprint to TP2650	5	1A / 3A
		111226: page25--Change PR20 value from 20_1206ohm to 22_8ohm	6	1A / 3A
		Change PR12 value from 7.5ohm to 10ohm	7	1A / 3A
		page26&27--Change PC73, PC79, PC80, PC90 value from 0.1u_6 to 2200p_4	8	1A / 3A
		111228: page20--Add R447, R448, Q26, Q27	9	1A / 3A
		111230: page23--Swap PDAT_SMB and PCLK_SMB	10	1A / 3A
		120103: page24--Change TP26 from U4.105 to U4.22	11	1A / 3A
		Change net CPUFAN# from U4.22 to U4.105	12	1A / 3A
		120104: Change PQ22,PQ23,PQ24,PQ25,PQ26,PQ27,PQ28,PQ29,PQ30,PQ31,PQ36,PQ38,,PQ39,	13	1A / 3A
		PQ40,PQ43,PQ44 footprint to wdfn5-3_05x3_05-65	14	1A / 3A
		120104: page13--Swap INT_EDIDCLK from CN1.32 to CN1.33	15	1A / 3A
		Swap INT_EDIDDATA from CN1.33 to CN1.32	16	1A / 3A
		Change SW1, SW2, SW3 footprint from sw-tc017-ps11bt-6p-smt to SW-TC901-AA1G-A160T-6P	17	1A / 3A
		R30, R28, Q2, Q3 unstuff, R21 stuff	18	1A / 3A
		page10--Add R449, R450, R451	19	1A / 3A
		Add net N30960722	20	1A / 3A
		120106: page26--Remove PR74	21	1A / 3A
		page24--Remove net POWERSMAR_SW and add TP97	22	1A / 3A
		page24--Remove net POWERSMARTLED and add TP95	23	1A / 3A
		page24--Remove net +0.75V_ON and add TP96	24	1A / 3A
		page28--Change PR149 value from 0_4 ohm to 422K_4 ohm	25	1A / 3A
		page28--Remove PR154 and Add PC118	26	1A / 3A
		page28--Add net +1.1V_S5_EN to EC and add R452	27	1A / 3A
		page24--Connect net SML1ALERT# to EC and add R453	28	1A / 3A
		120109: page26--Change C27 and C31 from10P_4 to 15p_4	29	1A / 3A
		120109: page25--PR20 No change	30	1A / 3A
		120109: page25--Change PC11 from 0.1u/50V_6 to 47n/50V_6	31	1A / 3A
		120109: page25--PR12 no Change	32	1A / 3A
		120109:Remove JP9, JP3, JP12, JP3, JP10, JP11, JP13, JP14, JP7, JP1, JP2, JP4, JP5, JP6	33	1A / 3A
		120110:page25--Change PR28 from 4.7_6 to 2.2_6, Change PC9 from 680p/50V_6 to 1000p/50V_4	34	1A / 3A
		120110:page26--Change PR153 from 4.7_6 to 2.2_6, Change PC93 from 680p/50V_6 to 1000p/50V_4	35	1A / 3A
		120110:page30--Change PR159 from 4.7_6 to 2.2_6, Change PC115 from 680p/50V_6 to 1000p/50V_4	36	1A / 3A
		120110:page13--Change L14, L17, L23 from BLM18BA470SN1_6 to BLM18BB750SN1D	37	1A / 3A
		120110:page13--Change C398 from .1u_10V_4 to 1000p/50V_4	38	1A / 3A
		120110:page9--Change R364 from 22_4 to 33_4 -->for slewrate issue	39	1A / 3A
		120111:page16--modify surge solution and change D14 P/N from CY003100Z06 to CY231T20Z00	40	1A / 3A
		120111:page10--Connect R451 net from FCH_SPI_CS0# to SPI_CS	41	1A / 3A
		120111:page14--Add C517 for hdmi detect issue	42	1A / 3A
		120111:page16--Change R196 footprint to 0805	43	1A / 3A
		120112:page09--Change R359 from 22_4 to 33_4-->follow vender suggestion	44	1A / 3A
		120112:page24--Change R110, R112, R116, R114 from 10k to 4.7k-->follow vender suggestion	45	1A / 3A
		120112:Change PQ24, PQ26, PQ28, PQ29, PQ44 P/N from BAM74100001 to BAM15280000	46	1A / 3A
		120112:Change PQ25, PQ27, PQ30, PQ31, PQ43 P/N from BAM77020000 to BAM15950000	47	1A / 3A
		120112:Change PQ32, PQ34 P/N from BAM14480000 to BAM03J60000	48	1A / 3A
		120112:Change PQ33, PQ35 P/N from BAM17180000 to BAM03K50000	49	1A / 3A
		120113:page25--Change PD1 P/N to BC1N4148Z00	50	1A / 3A
		120113:page16--Change Change L31 P/N from CX08T601010 to CX8AG601003	51	1A / 3A
		120113:page26--Change PC101, PC104 P/N from CC73301MZB2 to CC73301MZ00	52	1A / 3A
		120217:page22--Change R180, R182 from 255 to 590ohm	53	1A / 3A
		120217:page22--Change R1 from 100 to 80.6ohm	54	1A / 3A
		120217:page23,24--Change SW1, SW2, SW3 from DHP00AC1G01 to DHP00532W00		
	C	120221:page21-C303 unstuff		
		120221:page21-BT component unstuff		
		120221:page22-Change R185 from422 to 255ohm		
		120221:page24-chage SW1 P/N from DHP00AC1G01 to DHP00533B00		
		120221:page13-Remove L3		
		120221:page21-Remove L27, RP5, RP6, L26, L30, L28		
		120221:page17-Add IOAC circuit, R454, Q28, C518, R455,U23, R456, R457,, R460		
		Add Net WLAN_OFF, WLAN_OFF_R, IOAC_LANPWR#, PLTRST#_R, IOAC_RST#		
		120221:page24-Add R458, Add net PLTRST#_C		
		120221:page18-Add R459		
		120223:page9-Remove RP3,RP4, AddR461, R462, R463, R464		
		120223:page14-Change R88, R94, R103, R109 value from 100 to 120ohm and stuff		
		120223:page17-Add Q29, Q30, Add net PCIE_REQ_WLAN#_R, PCIE_WAKE#_WLAN_R		

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	CHANGE LIST -	1A

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