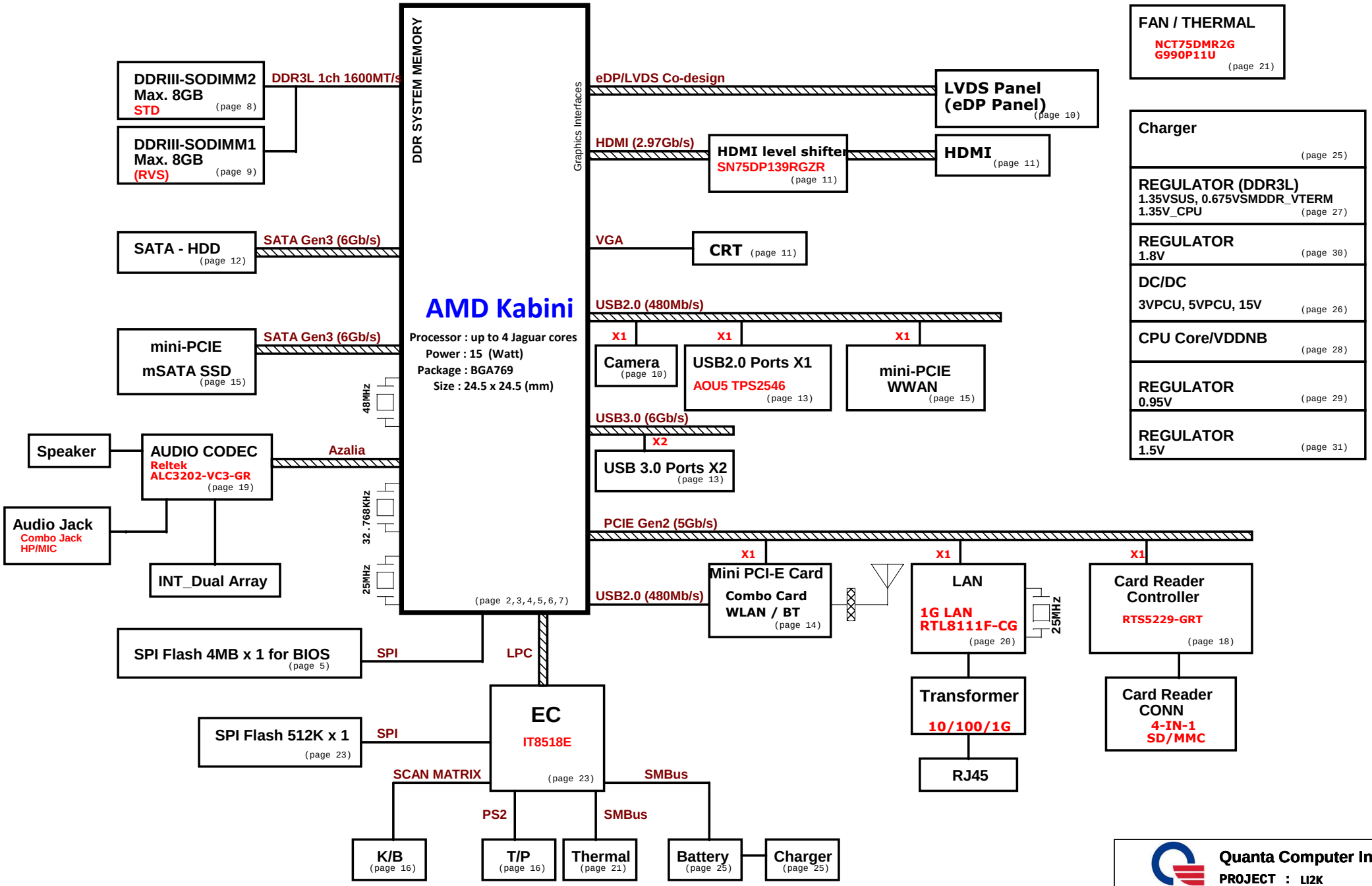
LI2K AMD Kabini Platform UMA Block Diagram

01

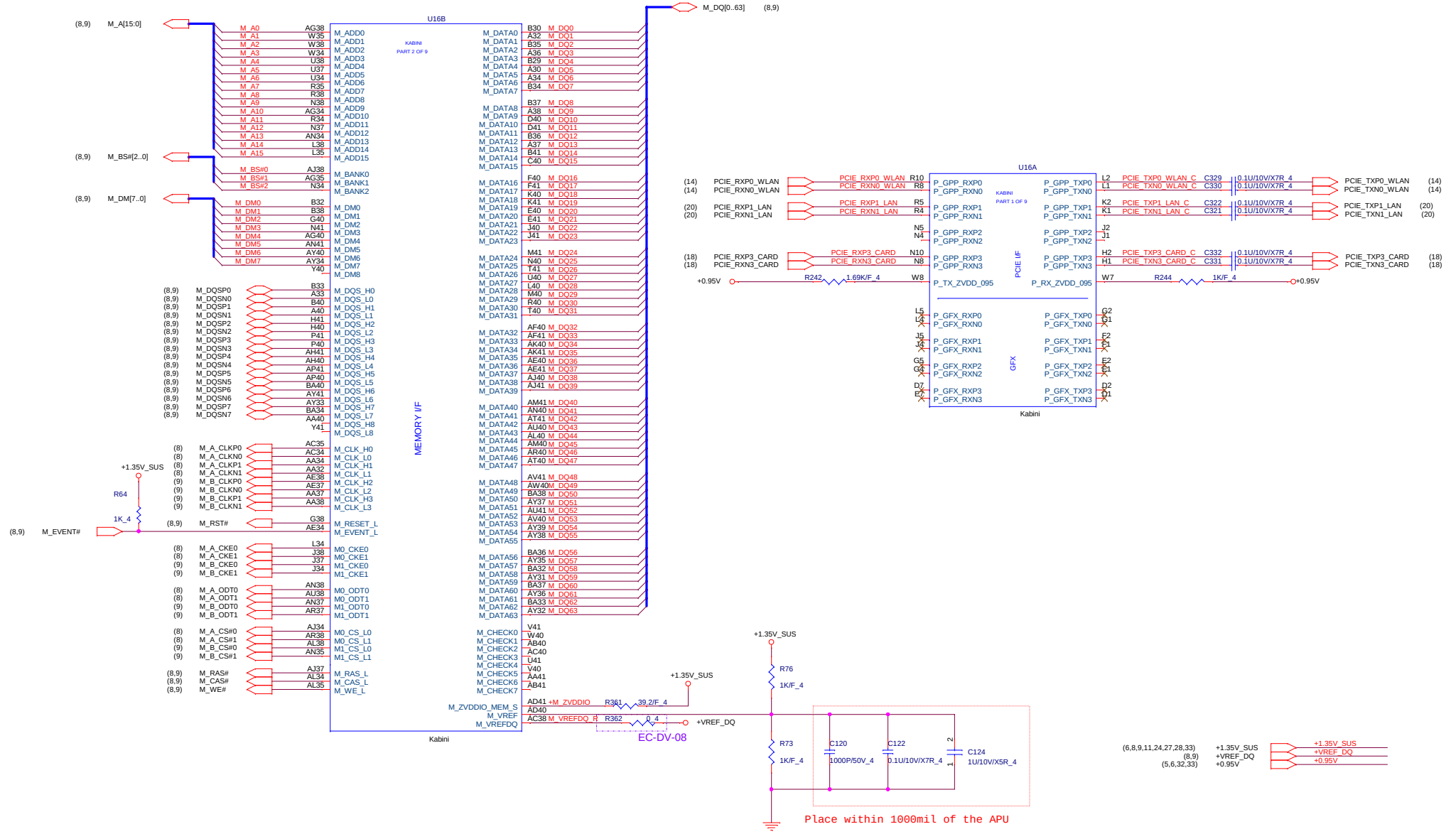


Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	Block Diagram	1A

Date: Wednesday, March 13, 2013 Sheet 1 of 35



Quanta Computer Inc.			
PROJECT : LI2K			
Size	Document Number		Rev
	KABINI 1/6 (MEM/PCIE)		1A
Date: Wednesday, March 13, 2013	Sheet 2	of 35	

Serial VID

VFIX MODE — VID Override table (VDD)

SVC	SVD	Boot Voltage
0	0	1.1V
0	1	1.0V
1	0	0.9V
1	1	0.8V

follow check list 17-152

Keep for DB design

APU on-die Thermal Sensor

DIFFERENTIAL ROUTING

APU Thermal Sensor

Over Temperature Protecton

DEGREE	R476
120	1.74K
110	8.2K
100	15K

(default)

HDT+ Connector for Debug only

HDT+ HEADER / PLACE ON TOP

HDT Debug only

Can remove on MP

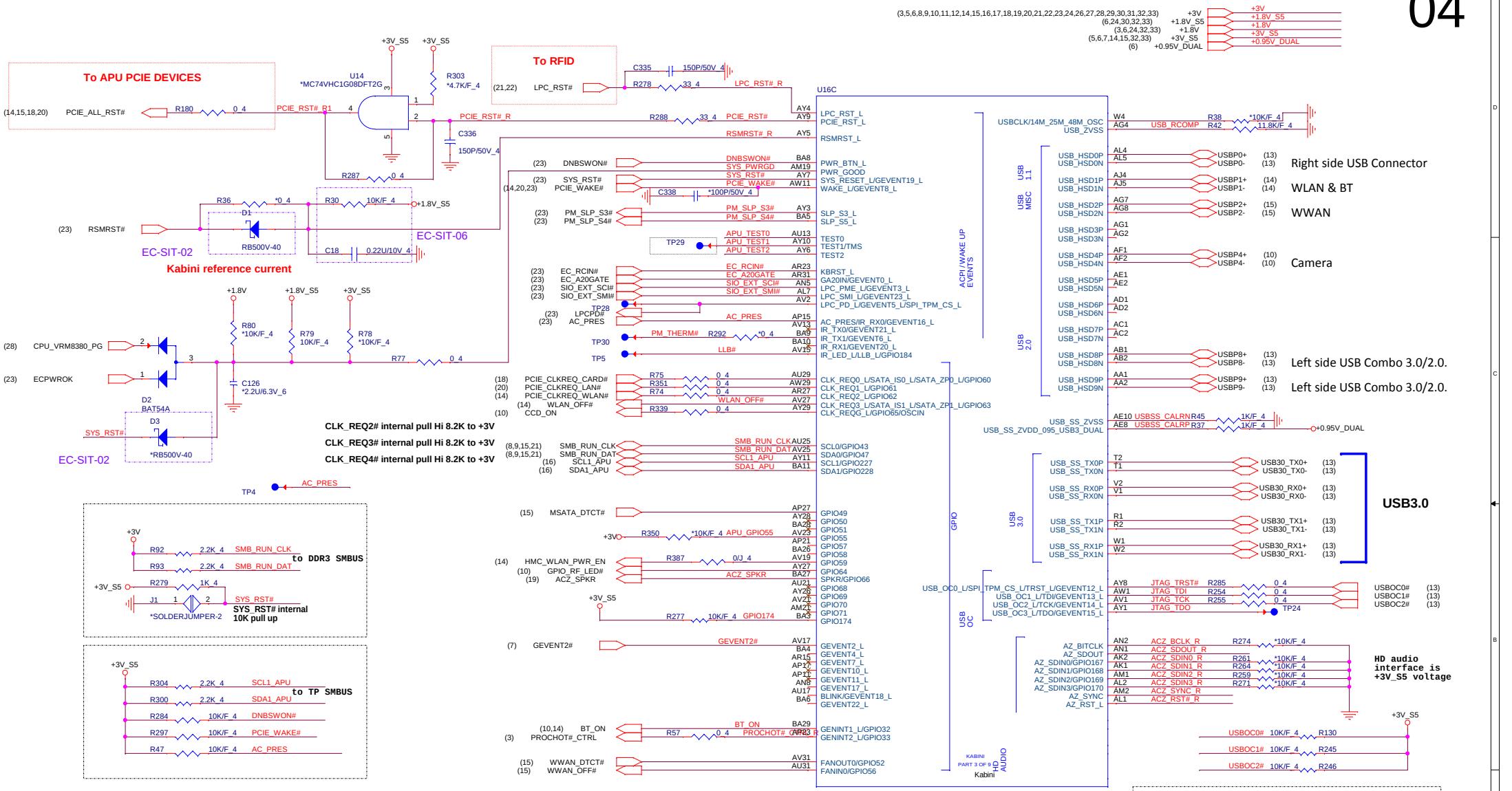
SN74LVC2G07DCKR

Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	KABINI 2/6 (DIS/MI)	1A

Date: Wednesday, March 13, 2013 Sheet 3 of 35



TEST2	TEST1	TEST0	Description
0	0	0	FCH TAP accessible from APU when TAPEN is asserted FCH JTAG pins are overloaded for multiple functions, in this configuration the FCH JTAG are used as non-JTAG pins
0	0	1	Reserved
0	1	X	Reserved
1	TMS	0	FCH JTAG multi-function pins are configured as JTAG pins, in this configuration the FCH TAP can be accessed from FCH JTAG pins
1	TMS	1	Use on ATE only Yuba JTAG enabled

Quanta Computer Inc.
PROJECT : LI2K
Size | Document Number: KABINI 3/6 (GPIO/USB/AZ) | Rev 1A
Date: Tuesday, March 26, 2013 | Sheet 4 of 35

(3,4,6,8,9,10,11,12,14,15,16,17,18,19,20,21,22,23,24,26,27,28,29,30,31,32,33) +3V
(2,6,32,33) +0.95V
(4,6,7,14,15,32,33) +3V_S5
(10,11,14,15,20,23,24,25,26,32) 3VPCU

SATA HDD

mSATA

U16E

KABINI PART 5 OF 9

SATA_TXP0 BA14 SATA_TX0P
SATA_TXN0 AY14 SATA_TX0N
SATA_RXN0 BA16 SATA_RX0N
SATA_RXP0 AY16 SATA_RX0P
SATA_TXP1 AY19 SATA_TX1P
SATA_TXN1 BA19 SATA_TX1N
SATA_RXN1 AY17 SATA_RX1N
SATA_RXP1 BA17 SATA_RX1P
SATA_CALRN AR19 SATA_ZVSS
SATA_CALRP AP19 SATA_ZVDD_095
SB_SATA_LED# BA30 SATA_ACT_L/GPIO67
SATA_X1 AY12
SATA_X2 BA12

SERIAL ATA

SD_PWR_CTRL BA23
SD_CLK/GPIO73 AY22 BOARD_ID3
SD_CMD/GPIO74 AY23 BOARD_ID0
SD_CD/GPIO75 AY20 BOARD_ID1
SD_WP/GPIO76 BA20 BOARD_ID2
SD_DATA0/GPIO77 BA22 BOARD_ID4
SD_DATA1/GPIO78 AY21
SD_DATA2/GPIO79 AY24
SD_DATA3/GPIO80 BA24
SD_LED/GPIO45 AY25 ACC_LED# TP36

SD CARD

SPI_CLK/GPIO162 AU7 SPI_CLK TP40
SPI_CS1_L/GPIO165 AW9 SPI_CS0# TP38
SPI_CS2_L/GPIO166 AR4 MEM_1V35 TP3
SPI_DO/GPIO163 AR11 SPI_SO TP41
SPI_DI/GPIO164 AR7 SPI_SI TP37
SPI_HOLD_L/GEVENT9_L AU11 SPI_HOLD# TP42
SPI_WP_L/GPIO161 AU9 SPI_WP TP39

SPI ROM

LPC_CLK0 (7)
LPC_CLK1 (7)
LPCCLK0 AY2
LPCCLK1 AW2
LAD0 AT2 LPC_AD0 (14,22,23)
LAD1 AT1 LPC_AD1 (14,22,23)
LAD2 AR2 LPC_AD2 (14,22,23)
LAD3 AR1 LPC_AD3 (14,22,23)
LFRAME_L AP2 LPC_FRAME# (7,14,22,23)
LDRQ0_L AP1
SERIRQ/GPIO48 AV29 SERIRQ (14,22,23)
LPC_CLKRUN_L AP25 CLKRUN# LPC_CLKRUN# (22,23)

Use with external clock generator only

Integrated Clock Mode:
Leave unconnected.

TP31 AY12 SATA_X1
TP32 BA12 SATA_X2

U4 U5 GFX_CLKP GFX_CLKN

(18) CLK_PCIE_CARDP RP3 0X2 CLK_PCIE_CARDP_R AC8 GPP_CLK0P
(18) CLK_PCIE_CARDN CLK_PCIE_CARDN_R AC10 GPP_CLK0N
(20) CLK_PCIE_LANP RP2 0X2 CLK_PCIE_LANP_R AE4 GPP_CLK1P
(20) CLK_PCIE_LANN CLK_PCIE_LANN_R AE5 GPP_CLK1N
(14) CLK_PCIE_WLANP RP4 0X2 CLK_PCIE_WLAN_R AC4 GPP_CLK2P
(14) CLK_PCIE_WLANN CLK_PCIE_WLAN#_R AC5 GPP_CLK2N
(3) CLK_APU_P RP1 *0X2 CLK_APU_P_R AA5 GPP_CLK3P
(3) CLK_APU_N CLK_APU_N_R AA4 GPP_CLK3N

Integrated Clock Mode:
Leave unconnected.

AP13 X14M_25M_48M_OSC

TP26 C327 22P/50V_4 48M_X1 N2 X48M_X1
Y3 48MHZ +-15PPM R275 1M/F_4
TP25 C326 22P/50V_4 48M_X2 N1 X48M_X2

32K_X1 AJ2
32K_X2 AJ1
RTCCLK AV11 CLK_RTC R43 10K_4 +3V_S5
VDDBT_RTC_G AN4 R363 10K_6 +1.5V_RTC
INT
Kabini

20MIL

C43 0.22U/10V_4

Place C2042 close to PIN

LPC_AD0 (14,22,23)
LPC_AD1 (14,22,23)
LPC_AD2 (14,22,23)
LPC_AD3 (14,22,23)
LPC_FRAME# (7,14,22,23)
LPC_DRQ#0 (14)
SERIRQ (14,22,23)
LPC_CLKRUN# (22,23)

C320 15P/50V_4
R413 0_4
CLK_33M_KBC (23)
LPC_CLK1_TPM (22)
LPC_CLK1_DEBUG (14)
C318 15P/50V_4
TP27

EC-DV-04

32K_X1
32K_X2
C324 18P/50V/C0G_4
32.768KHZ Y2
R272 20M_4
C325 18P/50V/C0G_4
USE GROUND GUARD FOR 32K_X1 AND 32K_X2

Changed the RTC (BT1) Conn type @1121

+BAT R369 470_4 +VCCRTC_2
D12 RB500V-40
3VPCU
D11 RB500V-40
+3VRTC
20MIL
CN19 CONN_RTC
C360 0.1U/10V_4
C359 1U/10V_4
U17 GND VIN VOUT
IC AP2138N-1.5TRG1
+1.5V_RTC
C355 10U/6.3VT_8
0.85mm

EC-DV-03

BOARD ID SETTING

Model	BOARD_ID0	BOARD_ID1	BOARD_ID2	BOARD_ID3	BOARD_ID4
eDP output	L				
LVDS output	H				
Dutton		L			
Jett		H			

EC-SIT-05

+3V
R346 10K/F_4 BOARD_ID0 R347 *10K/F_4
R325 *10K/F_4 BOARD_ID1 R324 10K/F_4
R319 10K/F_4 BOARD_ID2 R318 10K/F_4
R336 10K/F_4 BOARD_ID3 R337 10K/F_4
R329 10K/F_4 BOARD_ID4 R331 10K/F_4

APU SPI ROM

Replace to MX25L6436E

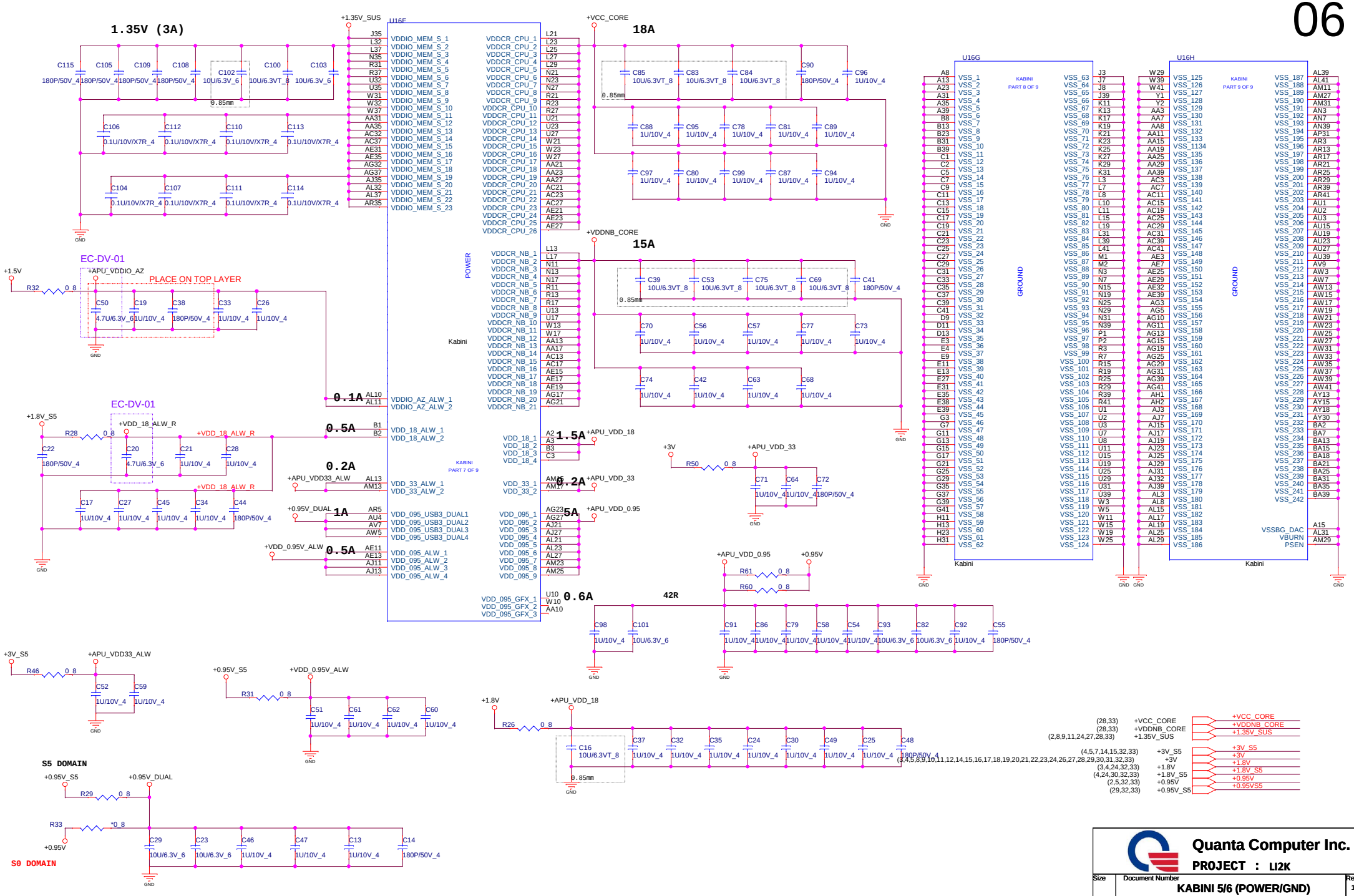
Vender	Size	P/N
EON	4M	AKE39ZN0Q02
WINBOND	4M	AKE391P0N00
Socket		DFHS08FS023

SPI_CLK EC68 *22P/50V_4 EMI
+3V_S5 R436 10K/F_4 R432 10K/F_4
SPI_CS0# R428 0_4 SPI_CS0#_R
SPI_CLK R450 0_4 SPI_CLK_R
SPI_SO R449 0_4 SPI_SO_R
SPI_SI R426 0_4 SPI_SI_R
SPI_WP R437 0_4
U24 CE# SCK SI SO WP# HOLD# VDD VSS
MX25L1605DM2I-12G
R448 10K/F_4
C413 0.1U/10V_4
SPI_HOLD# R451 0_4

Quanta Computer Inc.
PROJECT : LI2K

Size	Document Number	Rev
	KABINI 4/6 (SATA/CLK/RTC)	1A

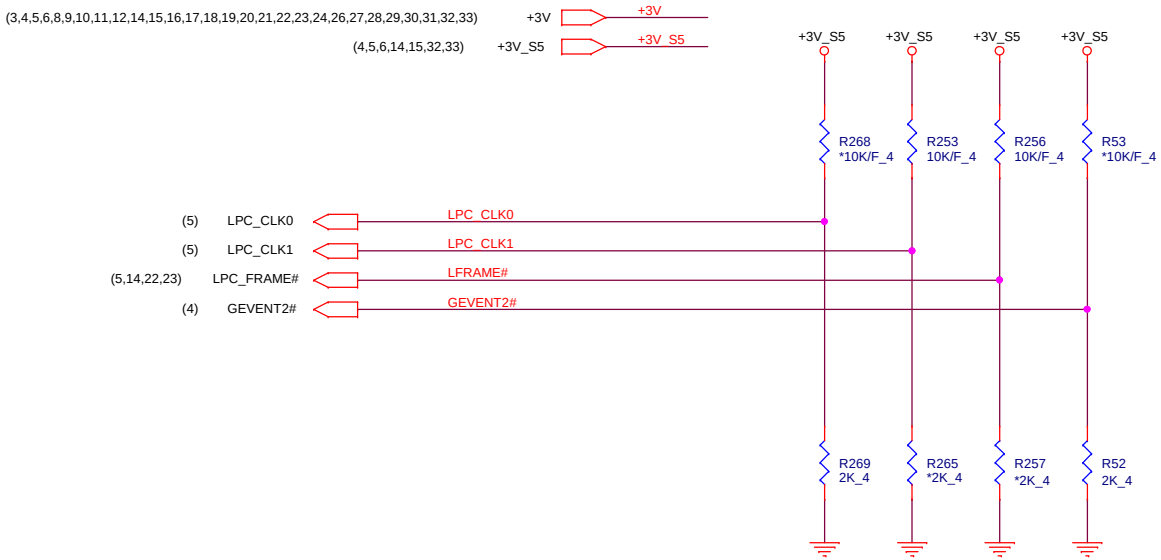
Date: Tuesday, March 26, 2013 Sheet 5 of 35



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: KABINI 5/6 (POWER/GND)	Rev: 1A
Date: Wednesday, March 13, 2013	Sheet 6 of 35	

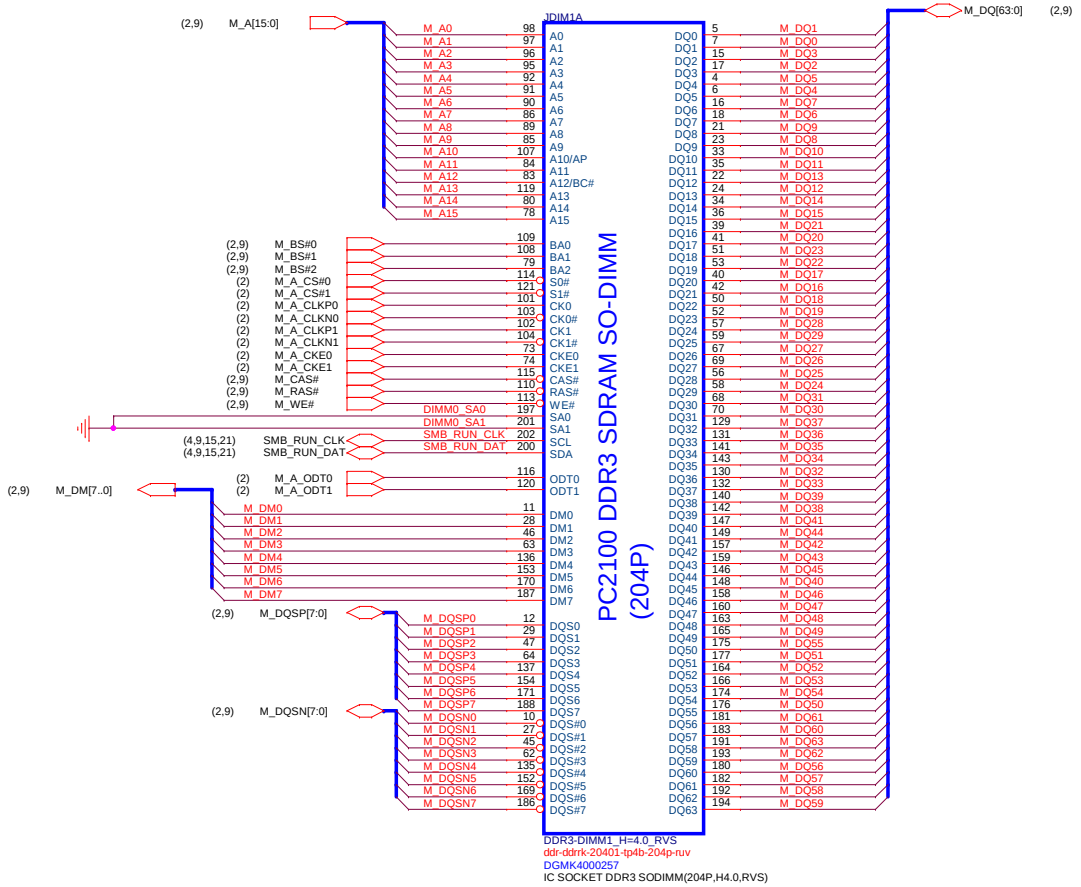
STRAPS PINS

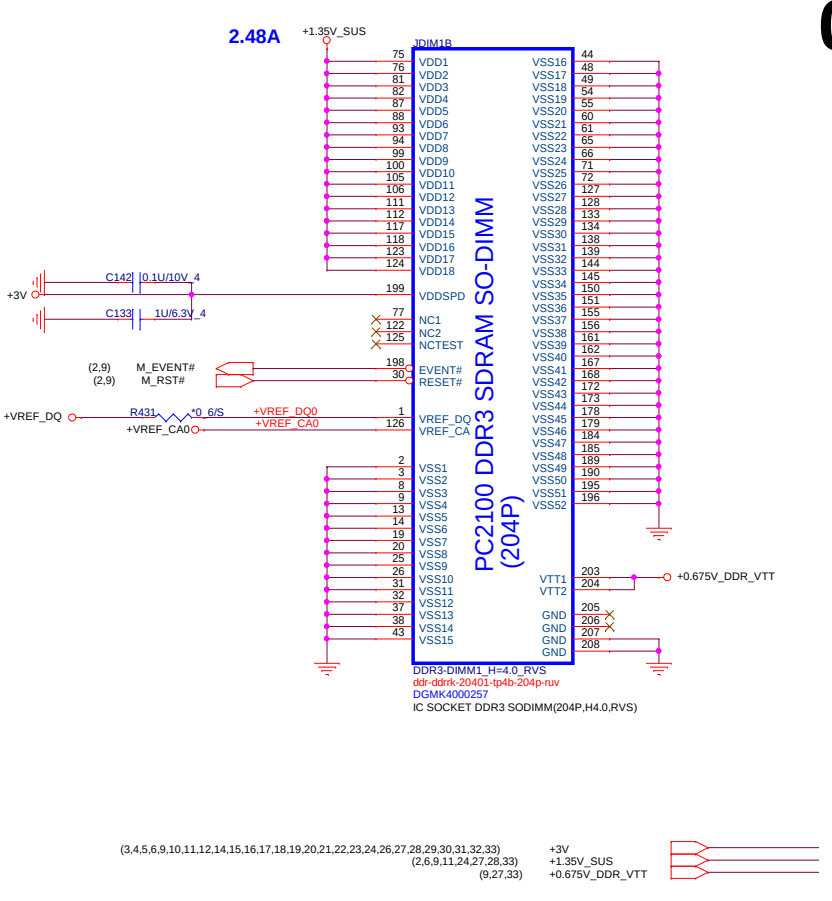
OVERLAP COMMON PADS WHERE POSSIBLE FOR DUAL-OP RESISTORS.



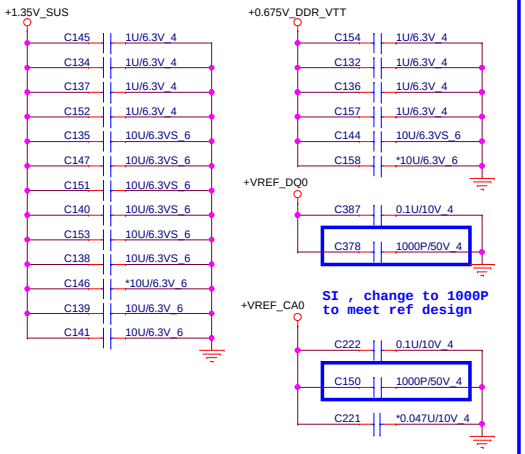
REQUIRED STRAPS

					LPC_CLK0	LPC_CLK1	LFRAME#	GEVENT2#
PULL HIGH					BOOT FAIL TIMER ENABLED	**CLKGEN ENABLED** DEFAULT	**SPI ROM** DEFAULT	**1.8V SPI ROM**
PULL LOW					BOOT FAIL TIMER DISABLED DEFAULT	**CLKGEN DISABLED**	**LPC ROM**	**3.3V SPI ROM** DEFAULT



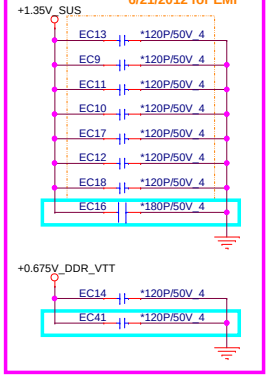


Place these Caps near So-Dimm0.

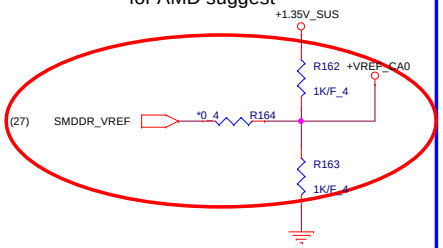


For EMI RESERVE

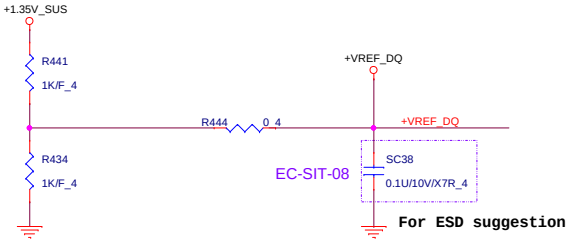
6/21/2012 for EMI



for AMD suggest



Reserved for AMD suggest



Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	DDR3 DIMM0-RVS (4.0H)	1A

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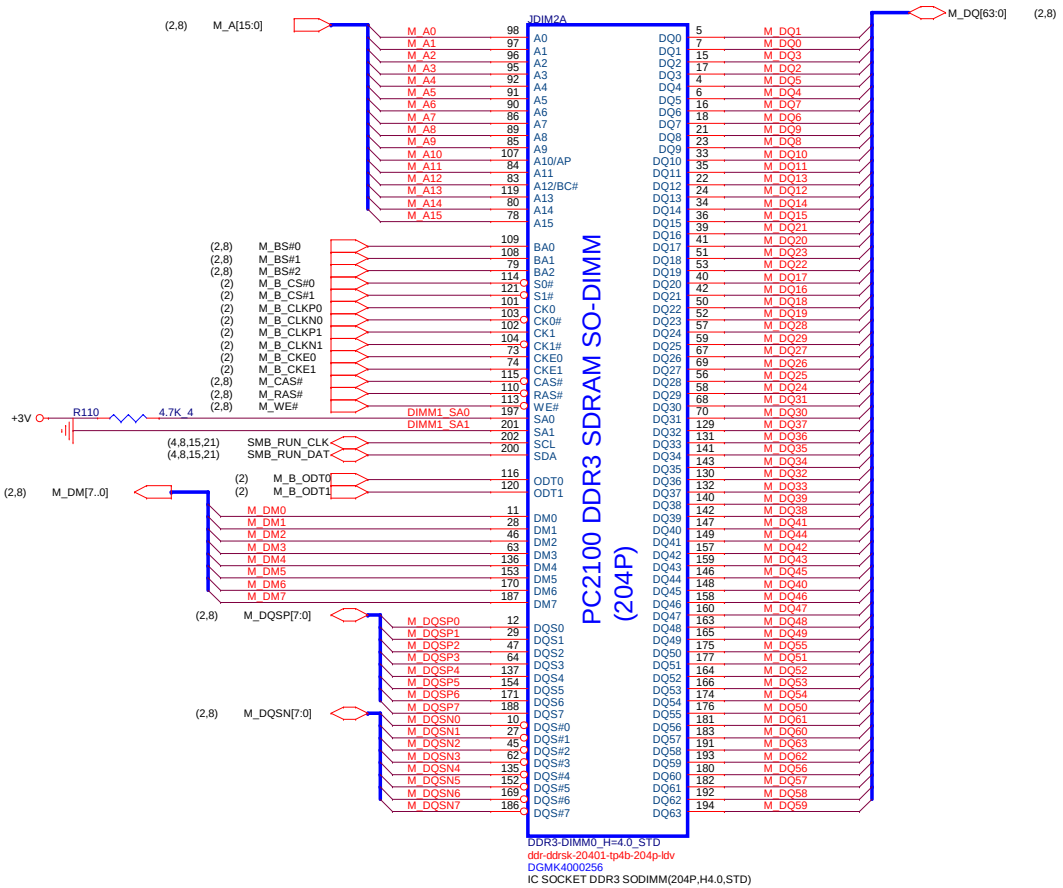
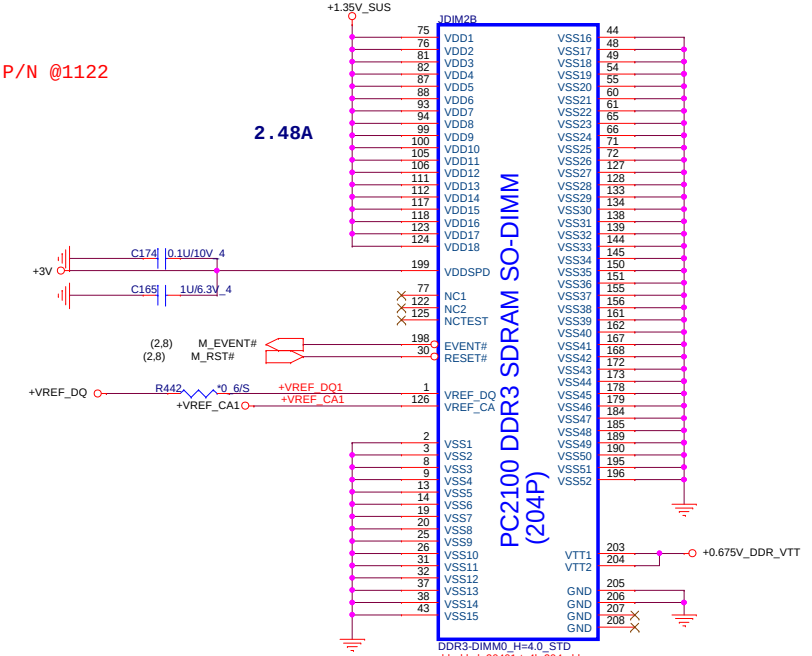
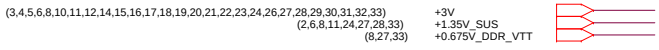


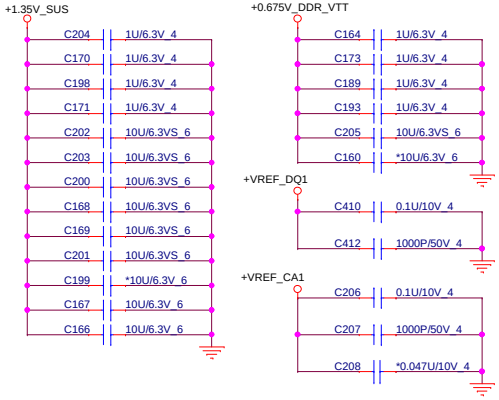
To be check P/N @1122

2.48A



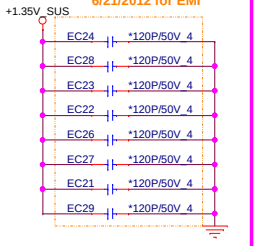


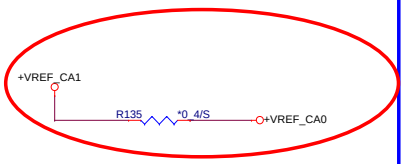
Place these Caps near So-Dimm1.

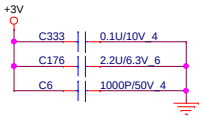


For EMI RESERVE

6/21/2012 for EMI







Local Thermal Sensor

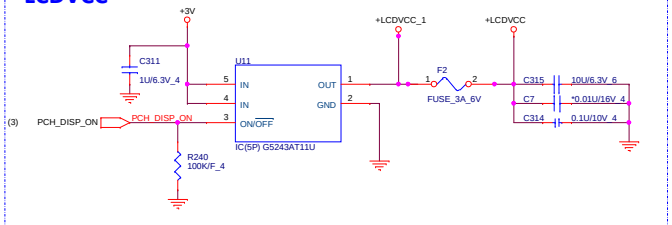
DDR3 Thermal Sensor

Delete the NB5's Thermal Solution @1126 -- ALF

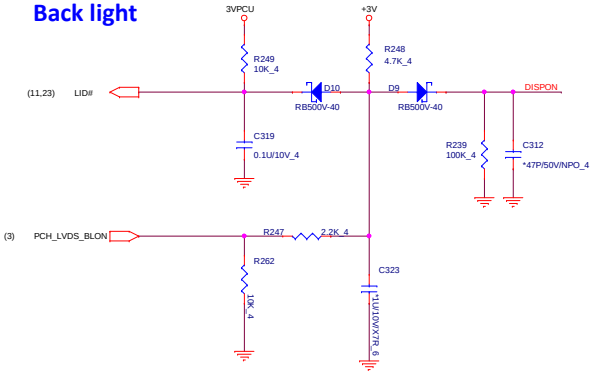
Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: DDR3 DIMM1-STD (4.0H)	Rev: 1A
Date: Wednesday, March 13, 2013	Sheet 9 of 35	

Need to Informa ME have 2 LCD cable,
one is for LVDS, other one is for eDP@1126

LCDVCC

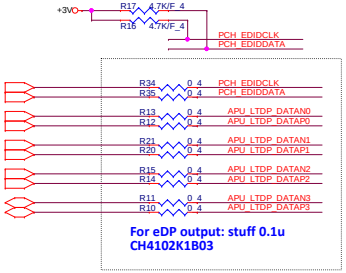


Back light

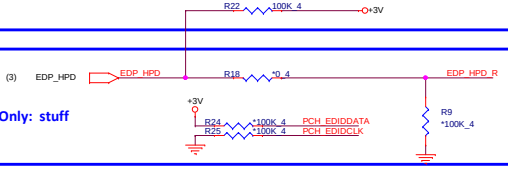


For LVDS only : stuff (default)

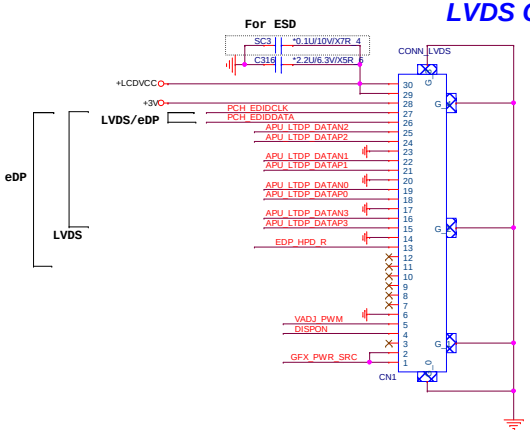
LVDS	eDP
EDID	AUX
TX2	ML0
TX1	ML1
TX0	ML2
CLK	ML3



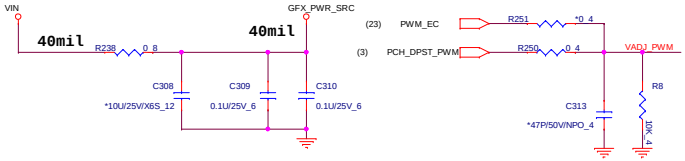
For EDP Only: stuff



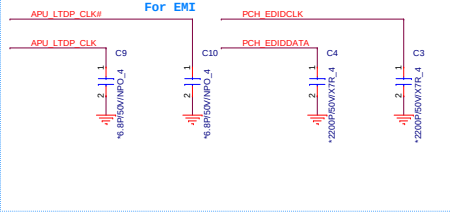
LVDS Conn.



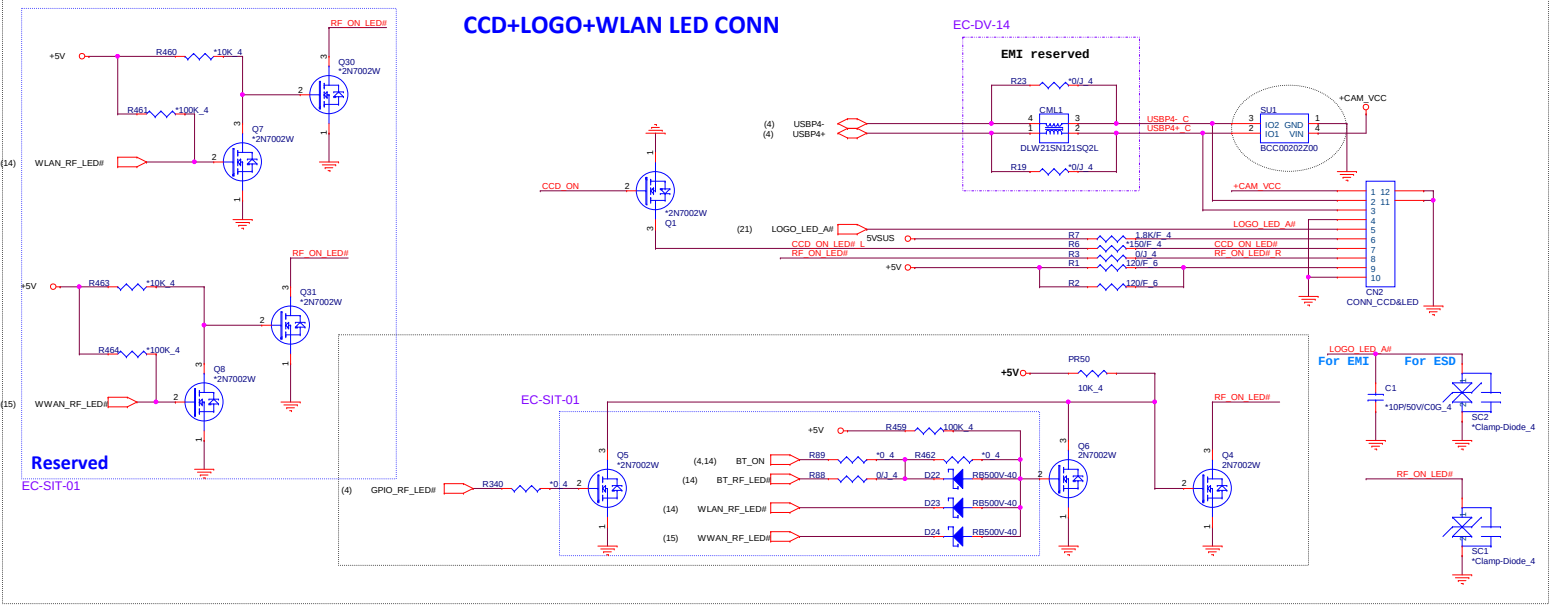
GFX_PWR_SRC



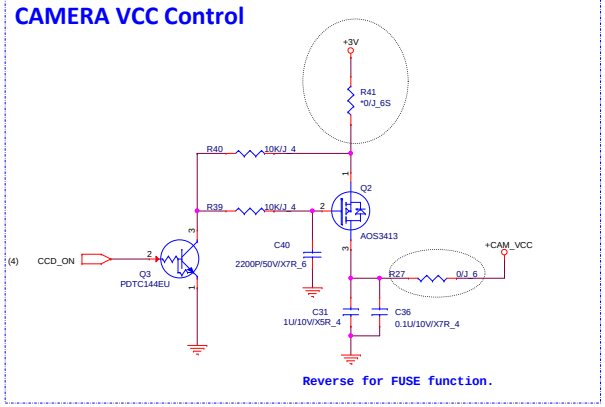
For EMI



CCD+LOGO+WLAN LED CONN



CAMERA VCC Control

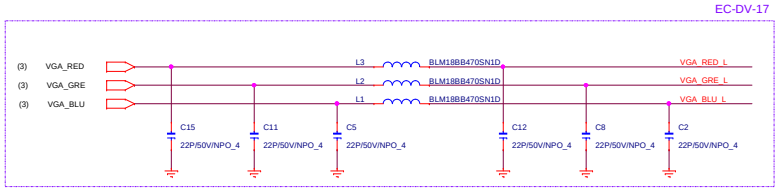


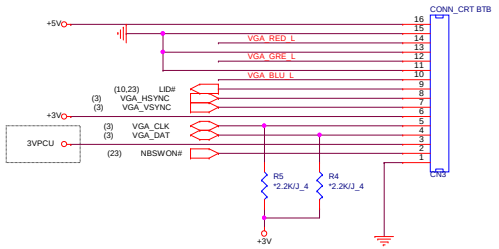
Quanta Computer Inc.
PROJECT : LI2K

Size	Document Number	Rev
	LCD/CAMERA CONN	1A

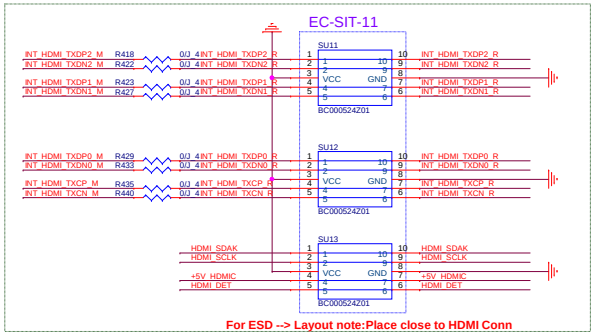
Date: Wednesday, March 13, 2013 Sheet 10 of 35

CRT BTB CONN

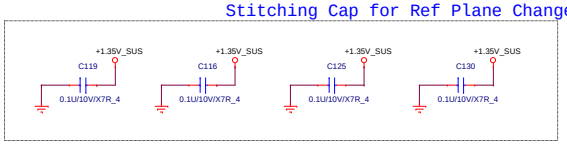




ESD reserved



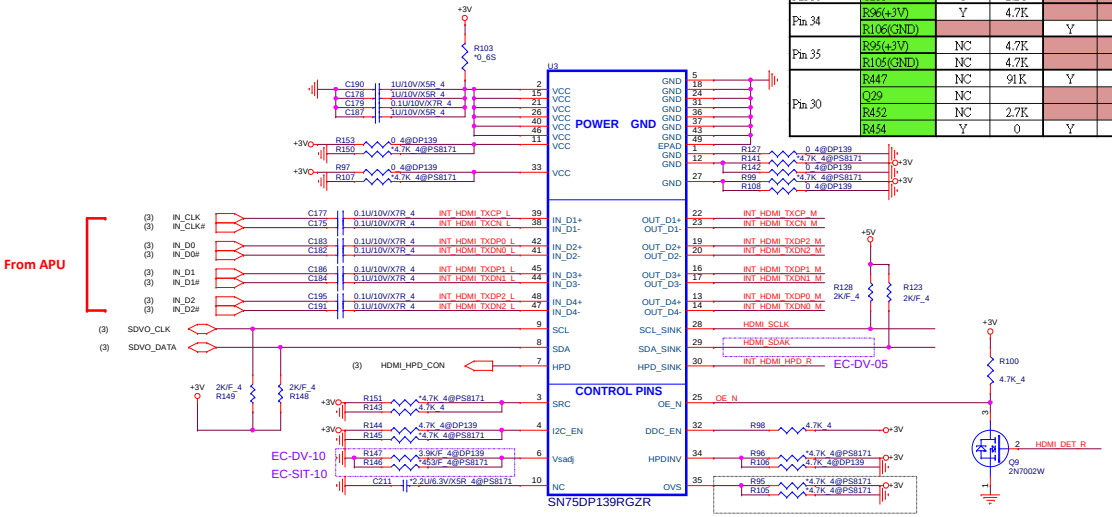
Stitching Cap for Ref Plane Change



Pin number	Location	PS8171 Stuff	PS8171 Value	DP139 Stuff	DP139 Value
Pin 1	R127(GND)			Y	0
Pin 12	R141(+3V)	Y	4.7K		
	R142(GND)			Y	0
Pin 27	R99(+3V)	NC	4.7K		
	R108(GND)			Y	0
Pin 11	R153(+3V)			Y	0
	R150(GND)	NC	4.7K		
Pin 33	R97(+3V)			Y	0
	R107(GND)	NC	4.7K		
Pin 3	R151(+3V)	NC	4.7K		
	R143(GND)			Y	4.7K
Pin 4	R144(+3V)			Y	4.7K
	R145(GND)	NC	4.7K		
Pin 6	R147(GND)			Y	3.9K
	R146(GND)	Y	499		
Pin 10	C211	Y	2.2U		
Pin 34	R96(+3V)	Y	4.7K		
	R106(GND)			Y	4.7K
Pin 35	R95(+3V)	NC	4.7K		
	R105(GND)	NC	4.7K		
Pin 30	R447	NC	91K	Y	91K
	Q29	NC			
	R452	NC	2.7K		
	R454	Y	0	Y	0

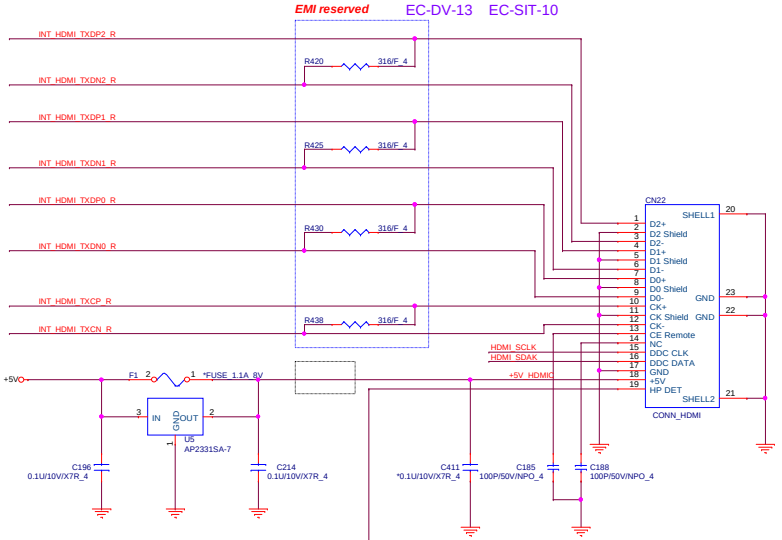
HDMI CONN

HDMI Level Shifter



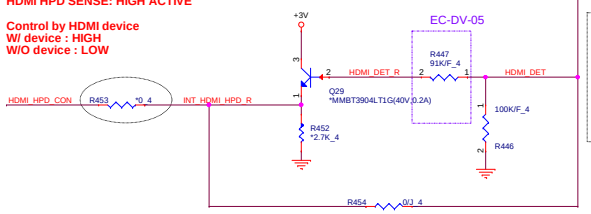
EC-20: Add HDMI level shifter second source BOM control table

EMI reserved EC-DV-13 EC-SIT-10



HDMI HPD SENSE: HIGH ACTIVE

Control by HDMI device
W/ device : HIGH
W/O device : LOW



Quanta Computer Inc.
PROJECT : LI2K

Size	Document Number	Rev
	CONN CRT/HDMI CONN	3A

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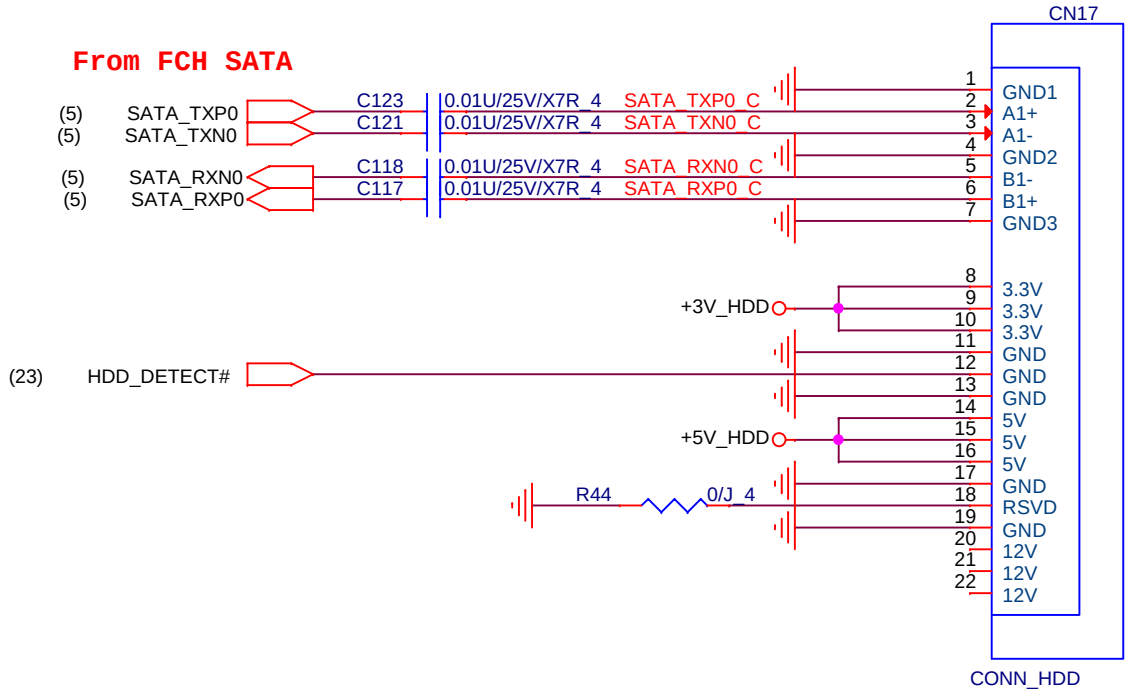
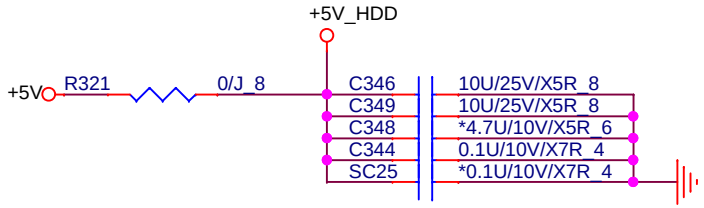
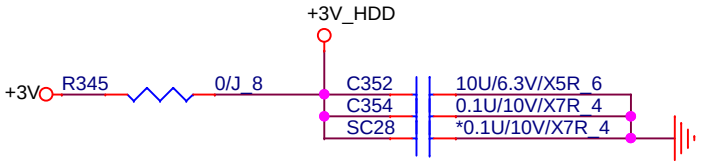
SATA HDD CONN



DC Current rating: 2 A (MAX)



DC Current rating: 3 A (MAX)



Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	CONN SATA(HDD or SSD)	3A
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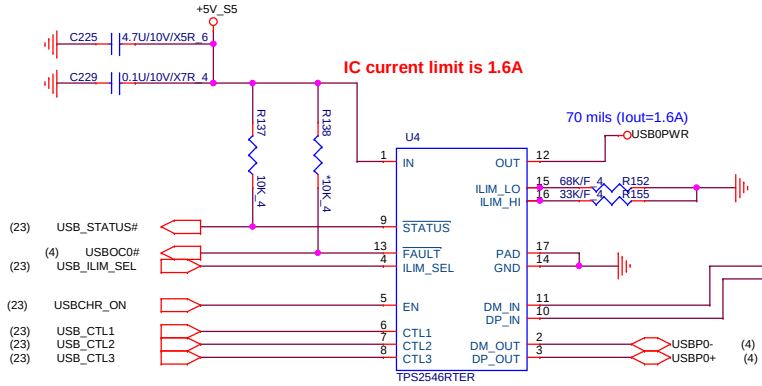
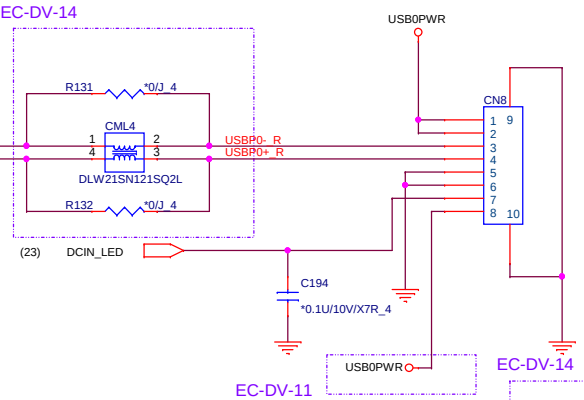
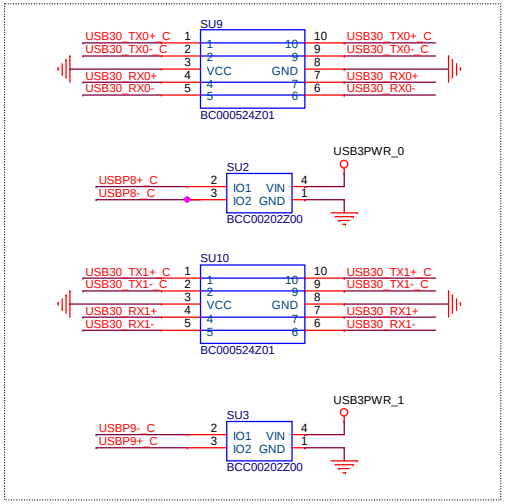
USB2.0 Port0



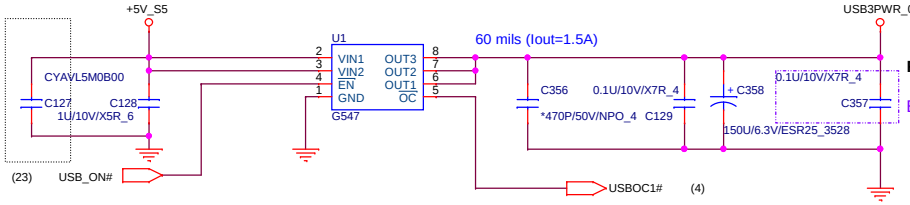
USB BTB CONN

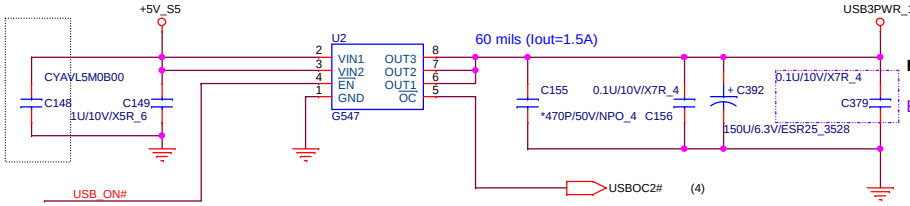


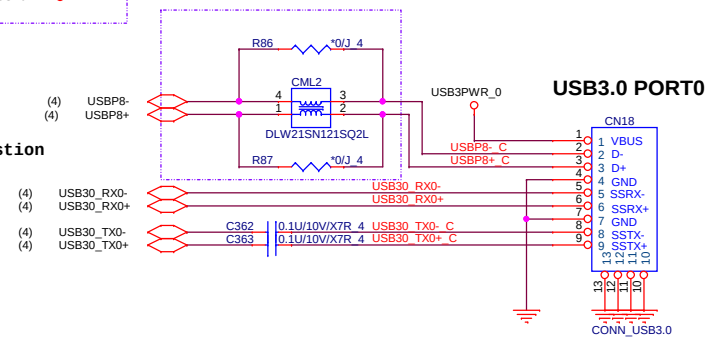
ESD reserved

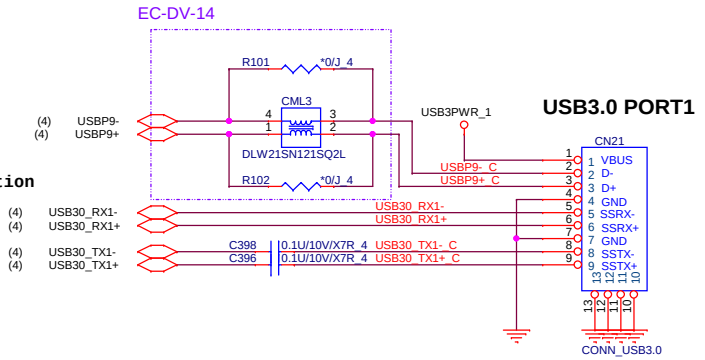


USB3.0 Port0 & Port1









Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	CONN USB3.0x2+USB2.0x1	3A
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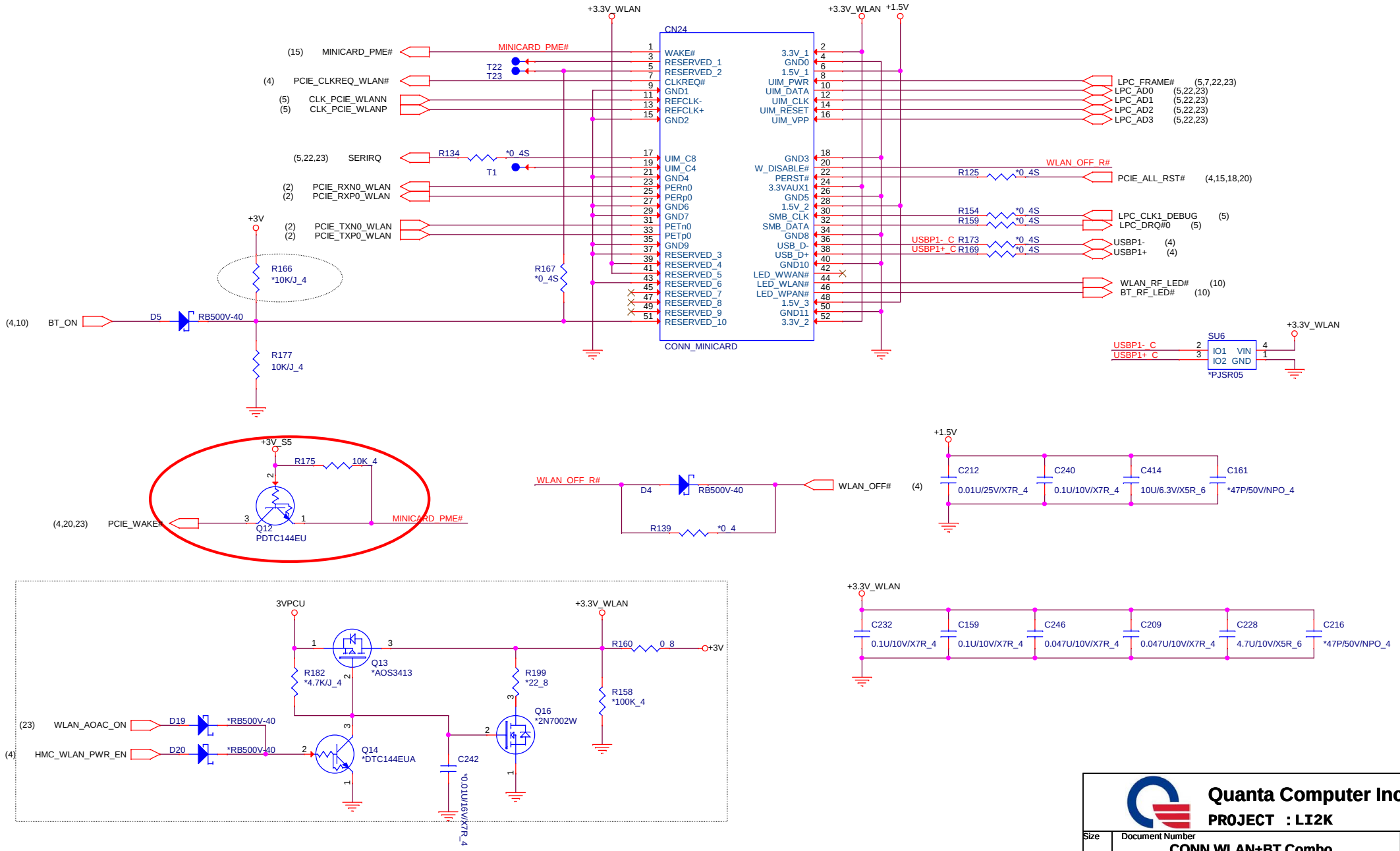
MiniCard WLAN connector



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number	Rev
	CONN WLAN+BT Combo	3A
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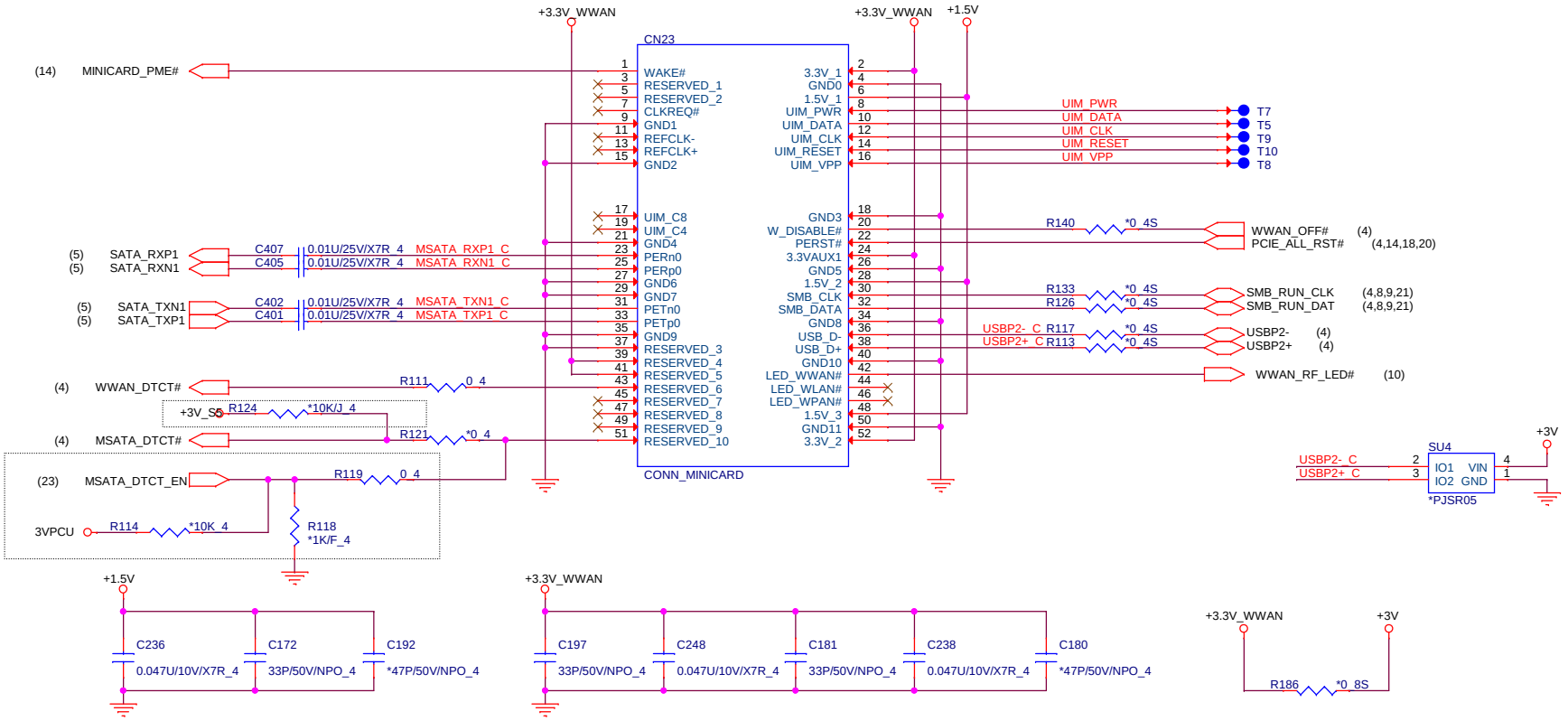
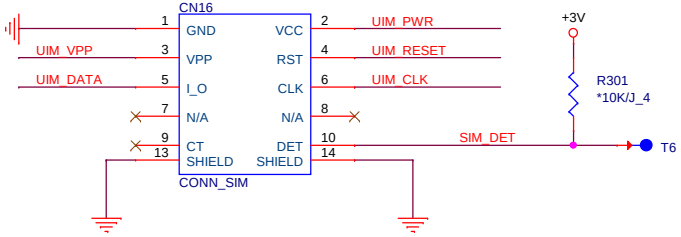
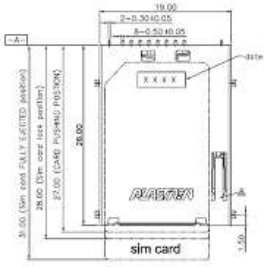
mSATA connector

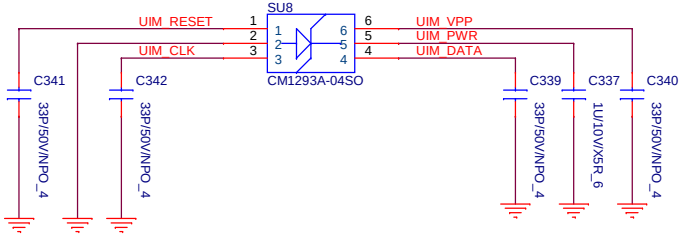


SIM Card CONN



Layout Note: UIM_RESET,UIM_CLK,UIM_DATA routting as short as possible





Quanta Computer Inc.

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Size	Document Number	Rev
	CONN WWAN or mSATA	3A
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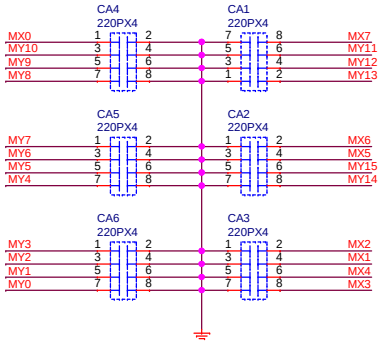
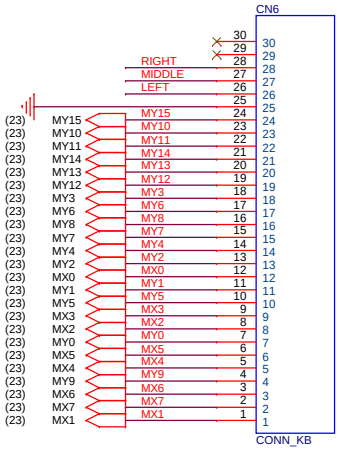
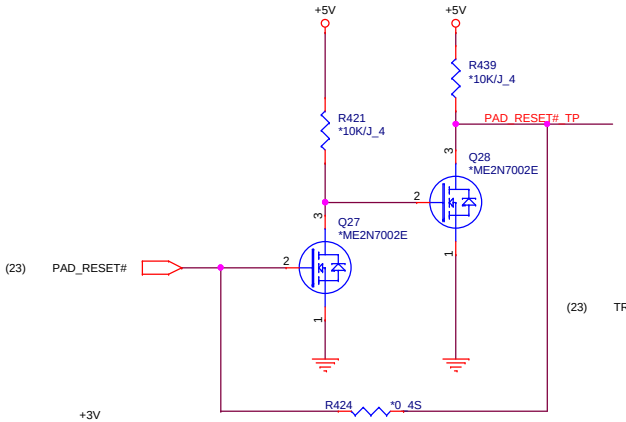
KEYBOARD

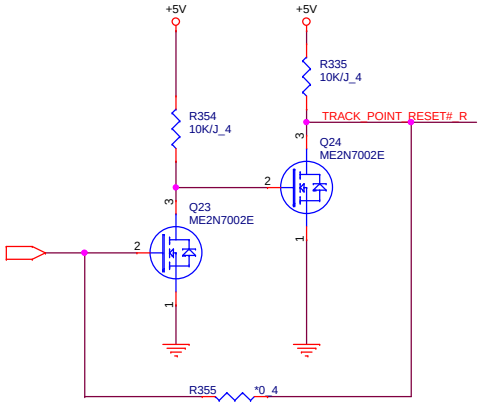
For EMI request

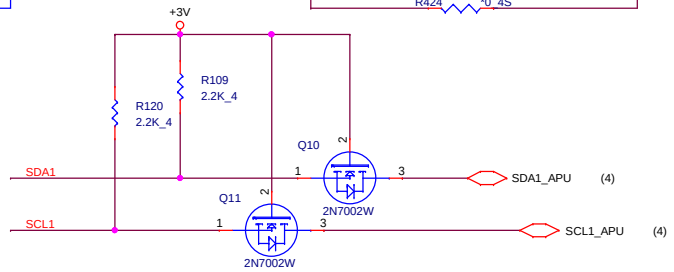




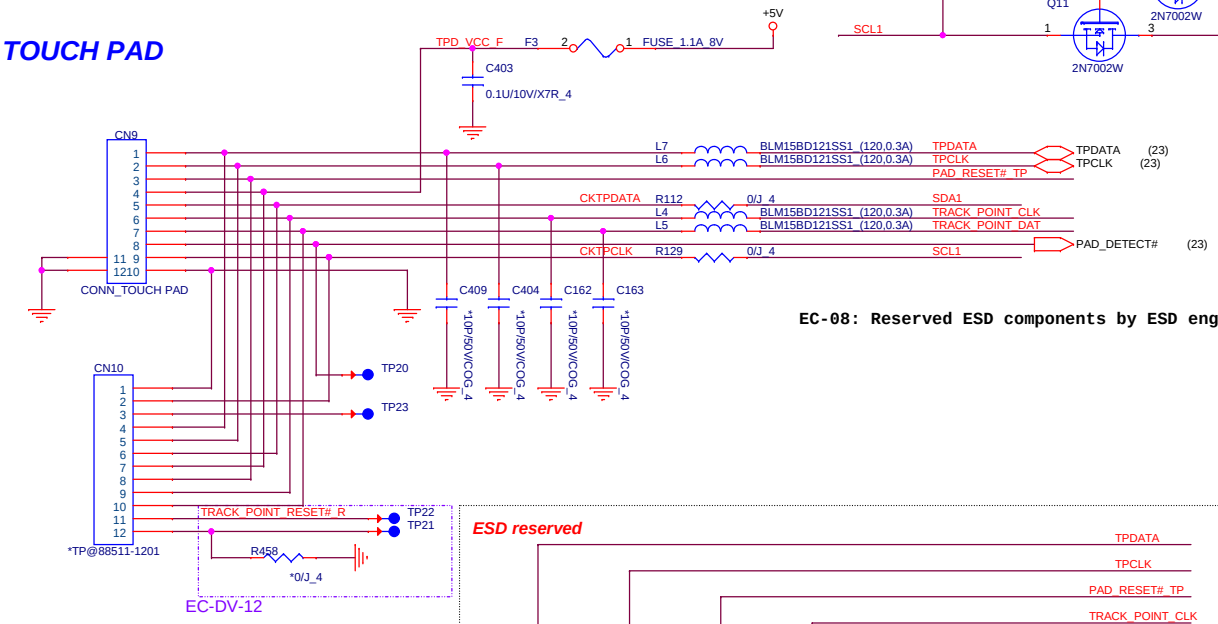
TRACK POINT/TOUCH PAD reset signal level shift





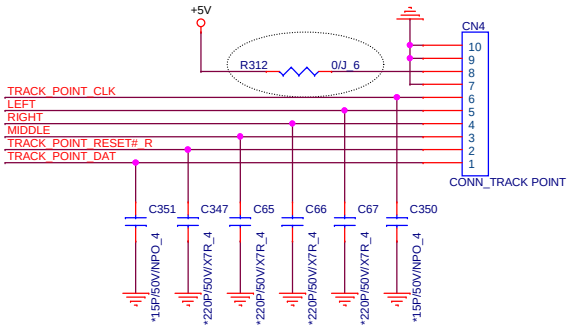


TOUCH PAD



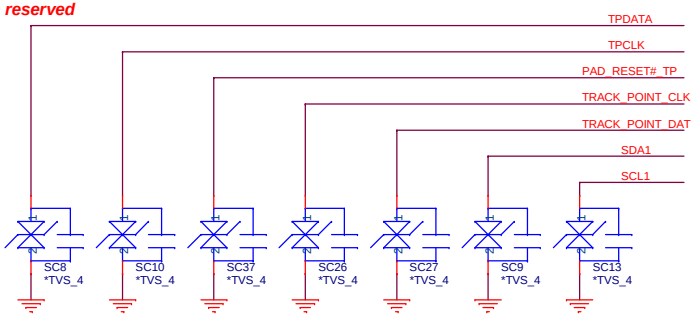
TRACK POINT

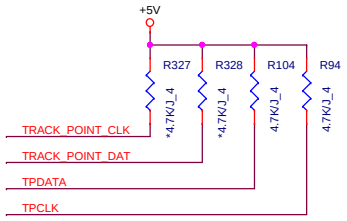
EC-C2-01: Reverse TRACK POINT Fuse.



EC-08: Reserved ESD components by ESD engineer's suggestions

ESD reserved





EC-B-10: Reverse SMbus CLICKPAD SCH.

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	CONN KB/TP	3A
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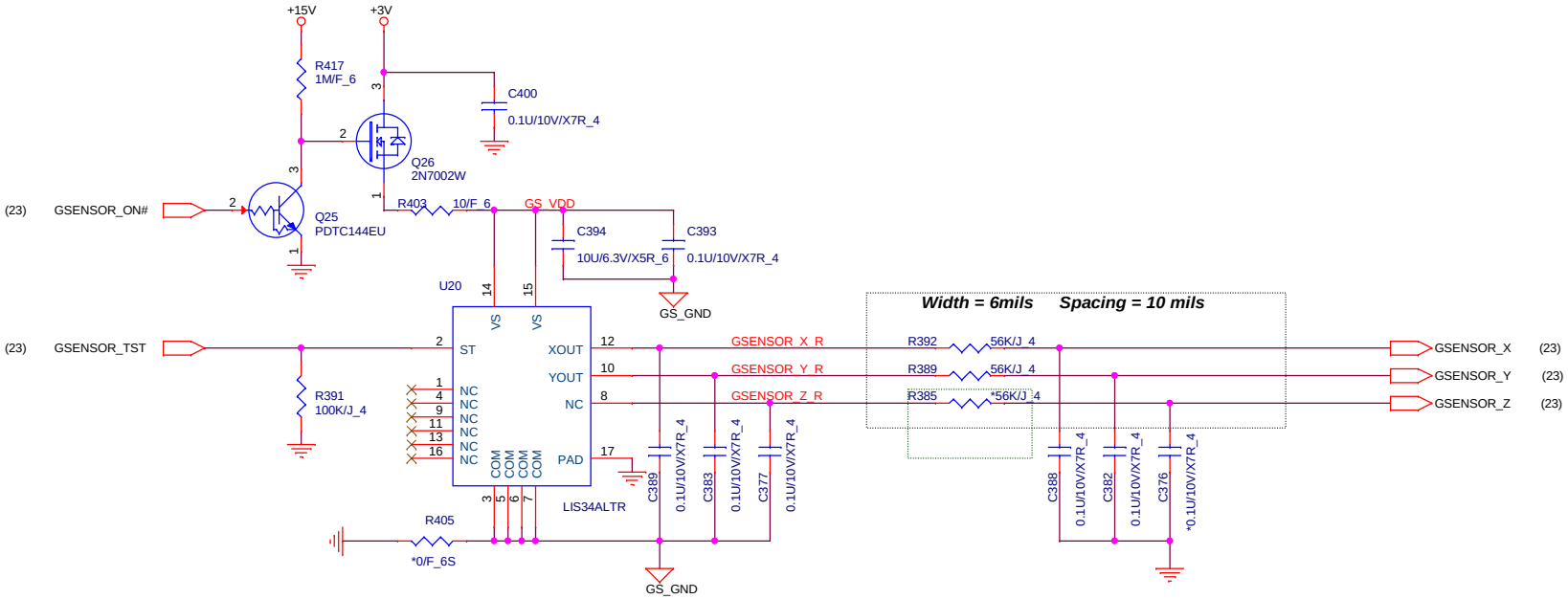
G-SENSOR (2-Axial)



Quanta Computer Inc.		
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Size	Document Number: CONN BT/G-SENSOR	Rev: 3A
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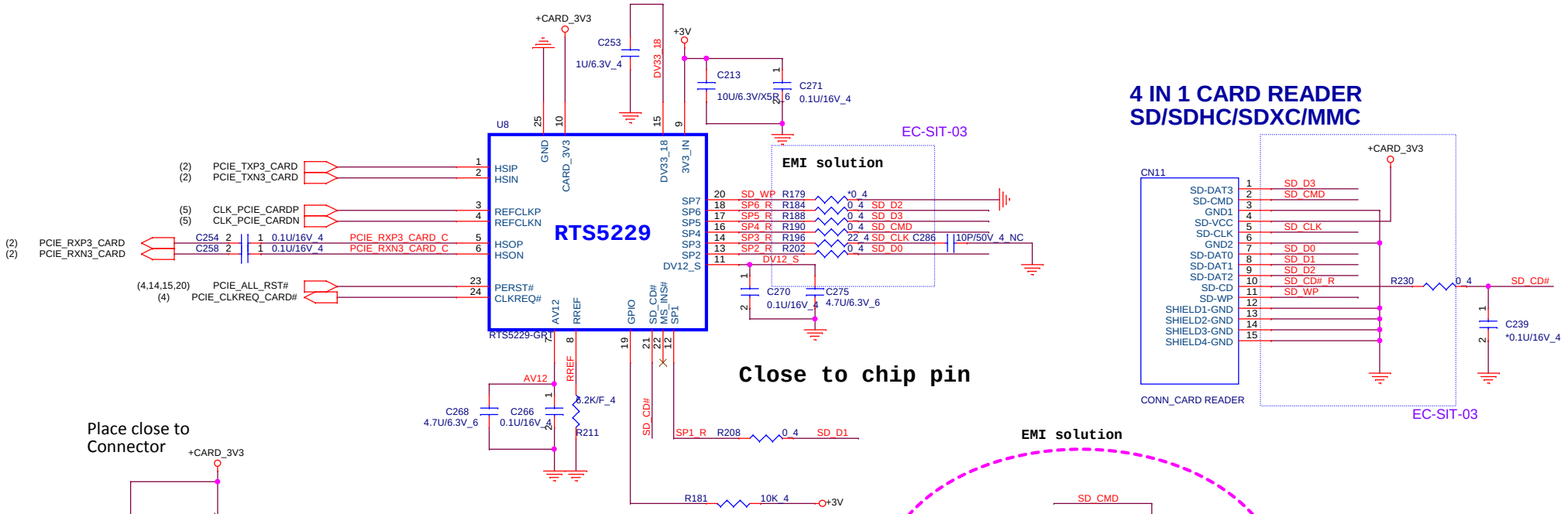
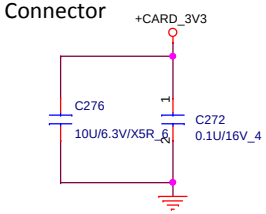
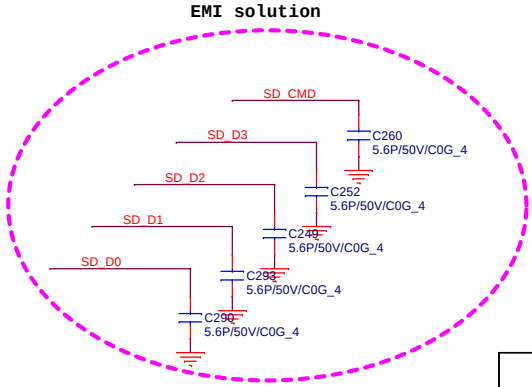
Cardreader (RTS5229) Support SD/ MMC







Quanta Computer Inc.

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Size	Document Number	Rev
	Cardreader RTS5229	3A

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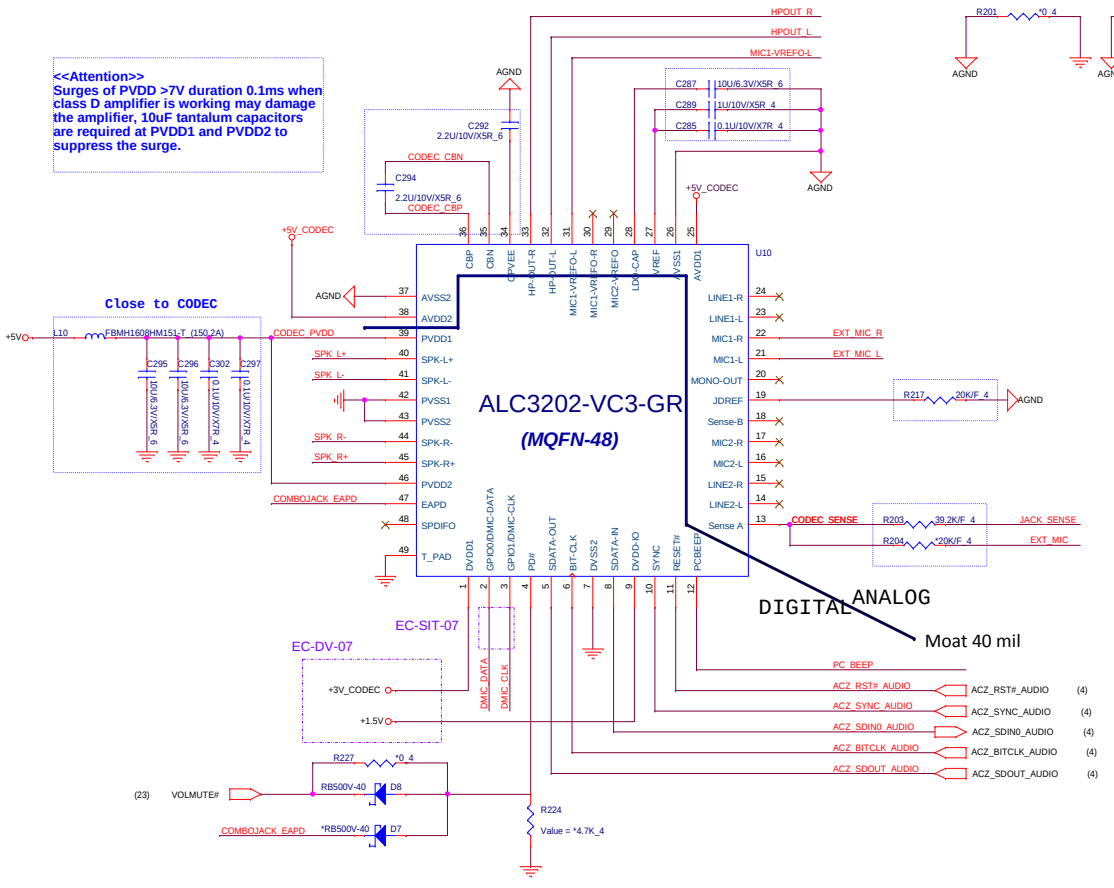
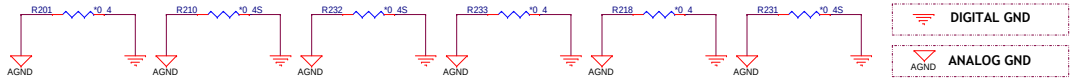
AUDIO CODEC: ALC3202-VC3-GR

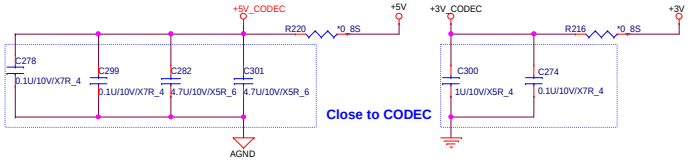


EMI Reserve

Please see Design Guide for audio grounding.

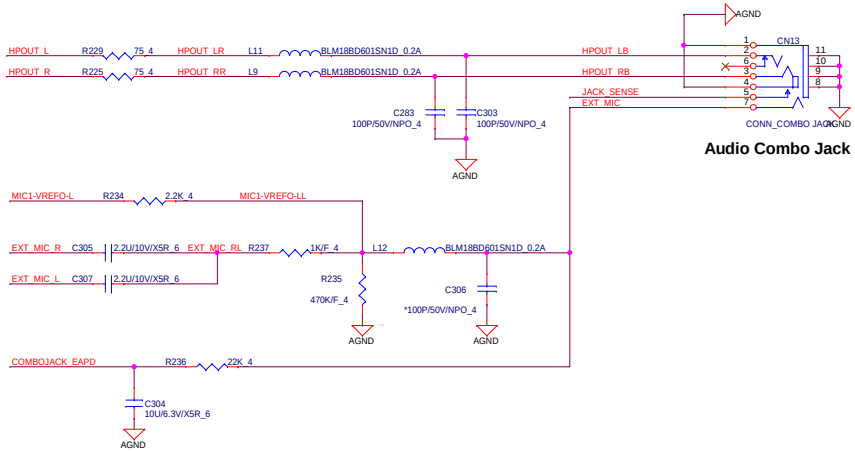


POWER

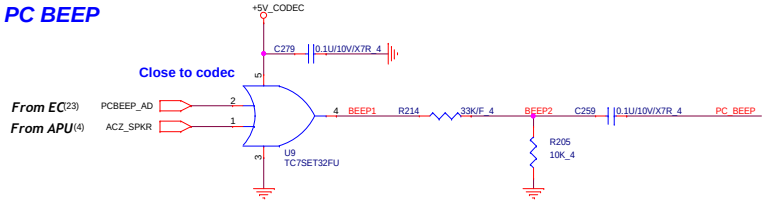


External MIC/Headphone Combo

Important for Jack detect behavior:The Pin 4 & Pin 5 of COMBO-JACK must use Normal-Open type.

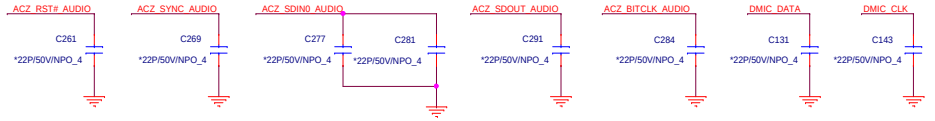


PC BEEP



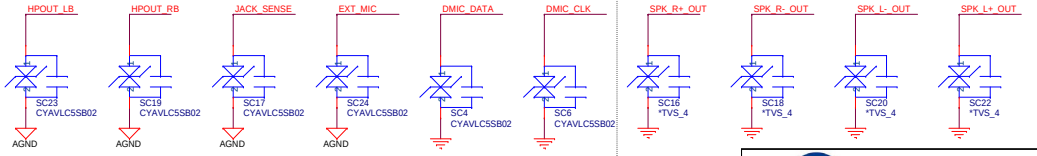
EMI Reserve

Place there EMI components next to codec; For EMI issue, please also refer our ALC269 Layout guide document

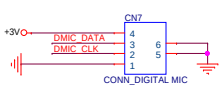


ESD Reserve

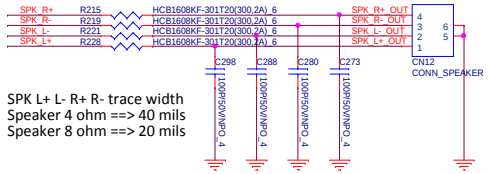
Reserved ESD components by ESD engineer's suggestions



INT Digital MIC



INT Speaker



Quanta Computer Inc.
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Size	Document Number	Rev
	AUDIO_ALC3202-VC3-GR	3A
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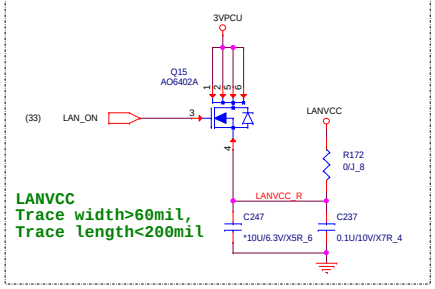
LAN: RTL8111F-CG

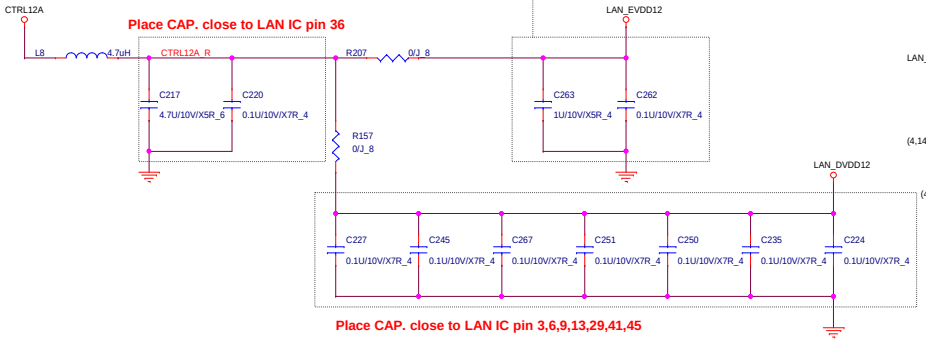
LAN POWER



LANVCC
Trace width>60mil,
Trace length<200mil

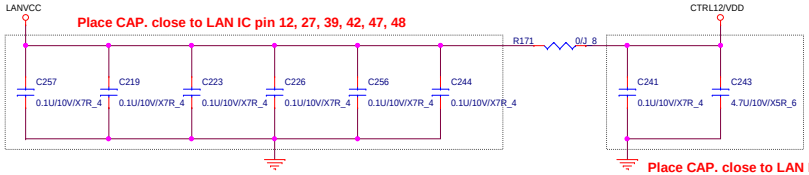
Place CAP. close to LAN IC pin 21

Place CAP. close to LAN IC pin 36

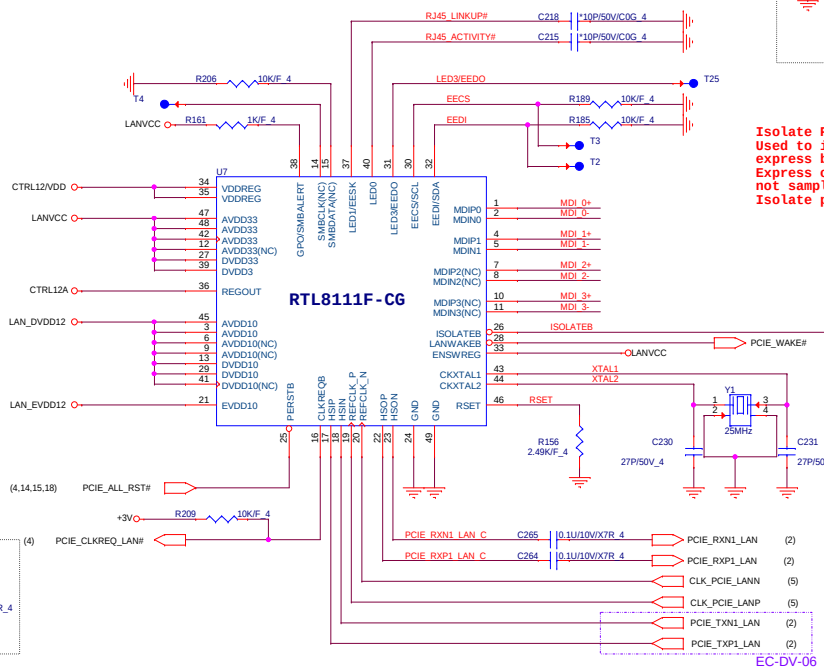


Place CAP. close to LAN IC pin 3,6,9,13,29,41,45

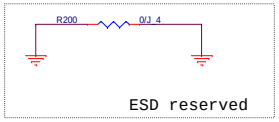
Place CAP. close to LAN IC pin 12, 27, 39, 42, 47, 48

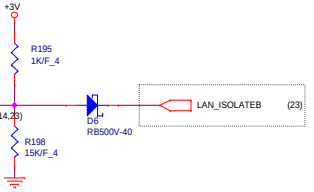


Place CAP. close to LAN IC pin 34, 35



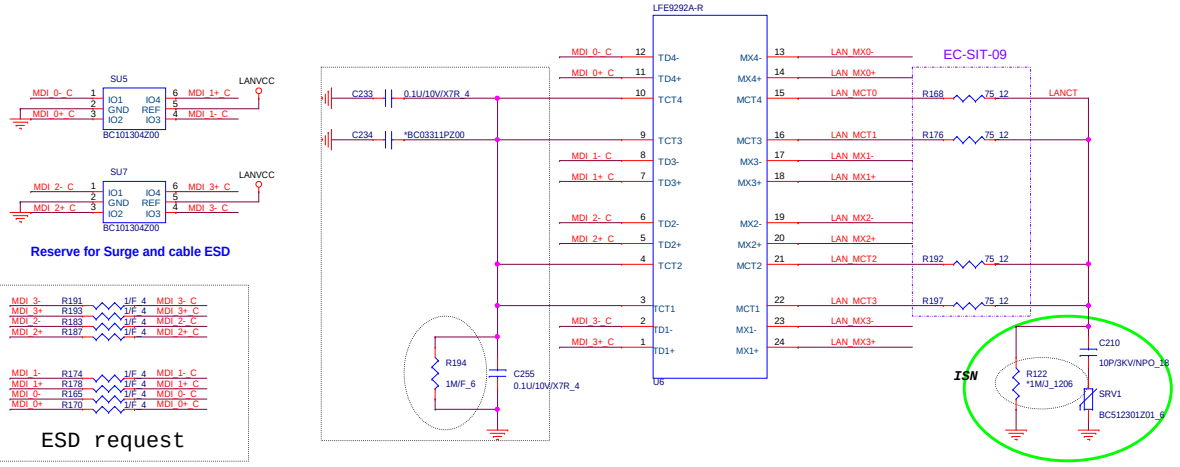
Isolate Pin: Active low.
Used to isolate the RTL8111F from the PCI express bus. The RTL8111F will not drive its PCI Express outputs (excluding LANWAKEB) and will not sample its PCI Express input as long as the Isolate pin is asserted.



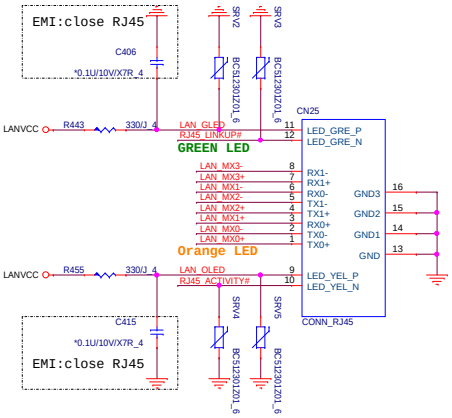


Tramsformer

Layout:All termination signal should have 20 mil trace

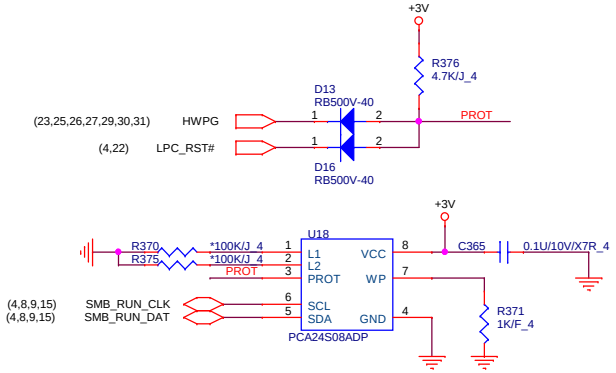


RJ45 Connector

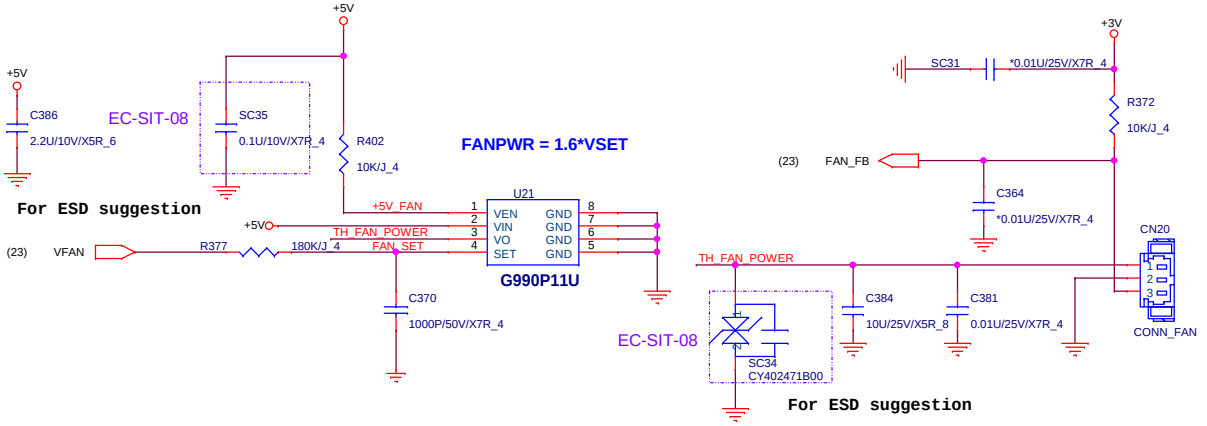


(10,32,33) 5VSUS

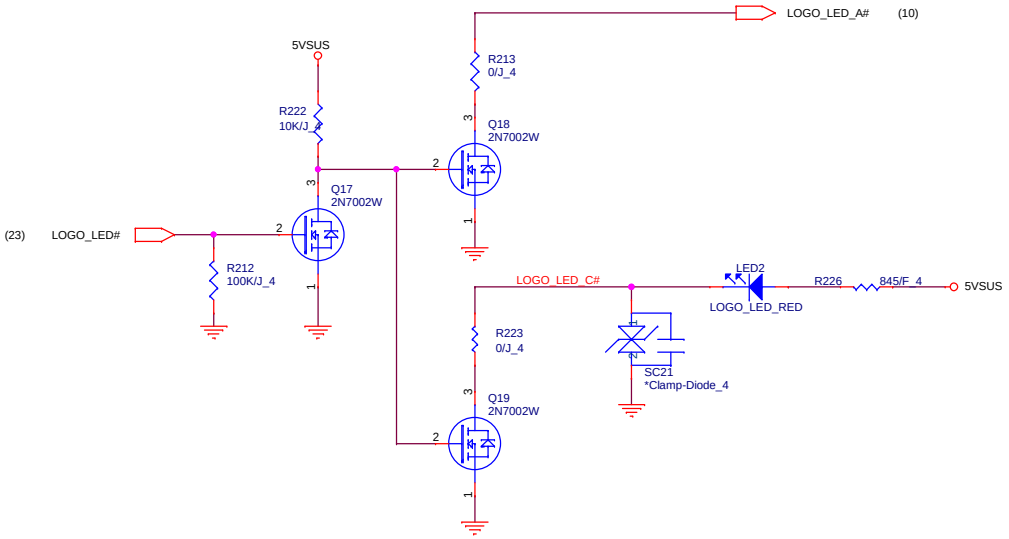
RFID



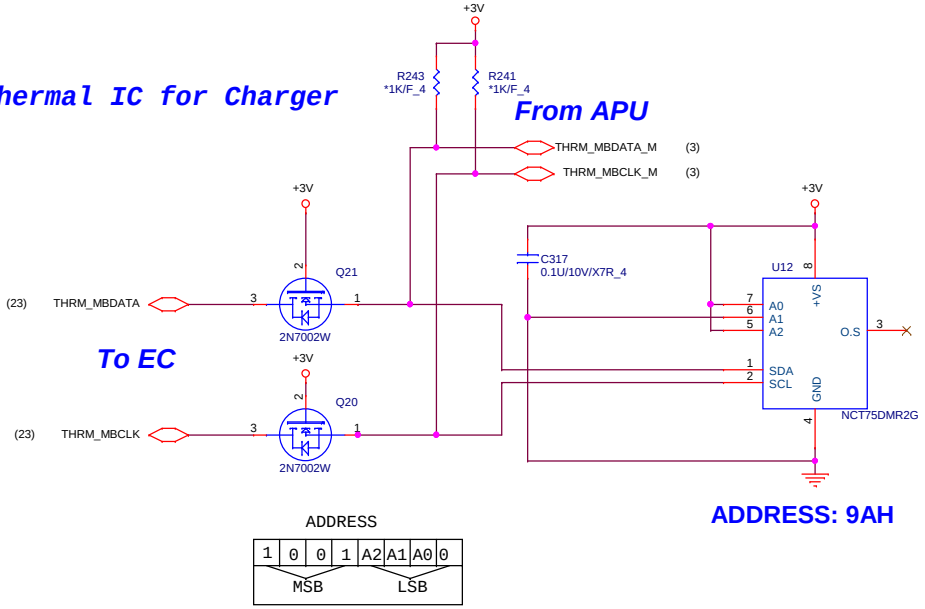
FAN IC & CONN



LED Driver



Thermal IC for Charger



ADDRESS

1	0	0	1	A2	A1	A0	0
MSB							LSB

Quanta Computer Inc.

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	FAN/Thermal/LED/RFID	3A

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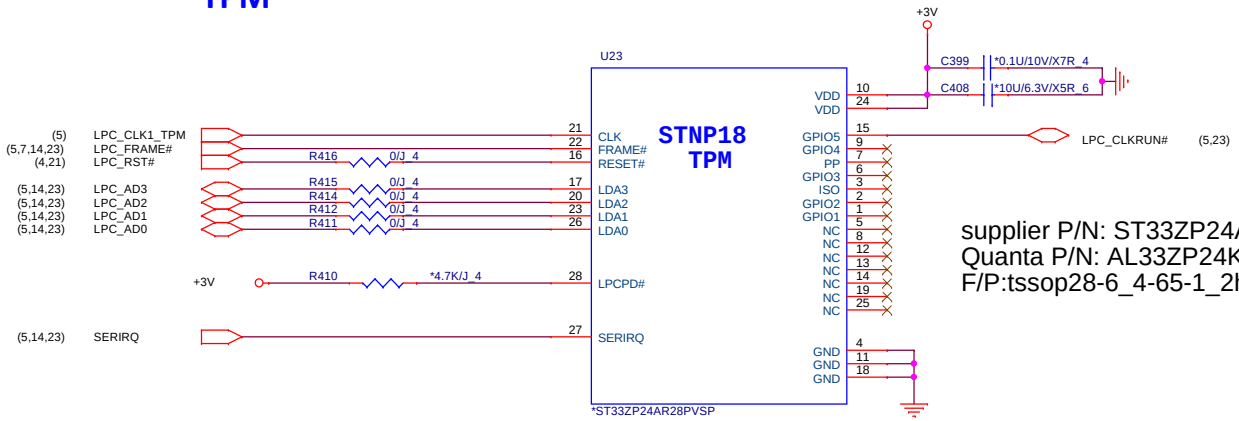
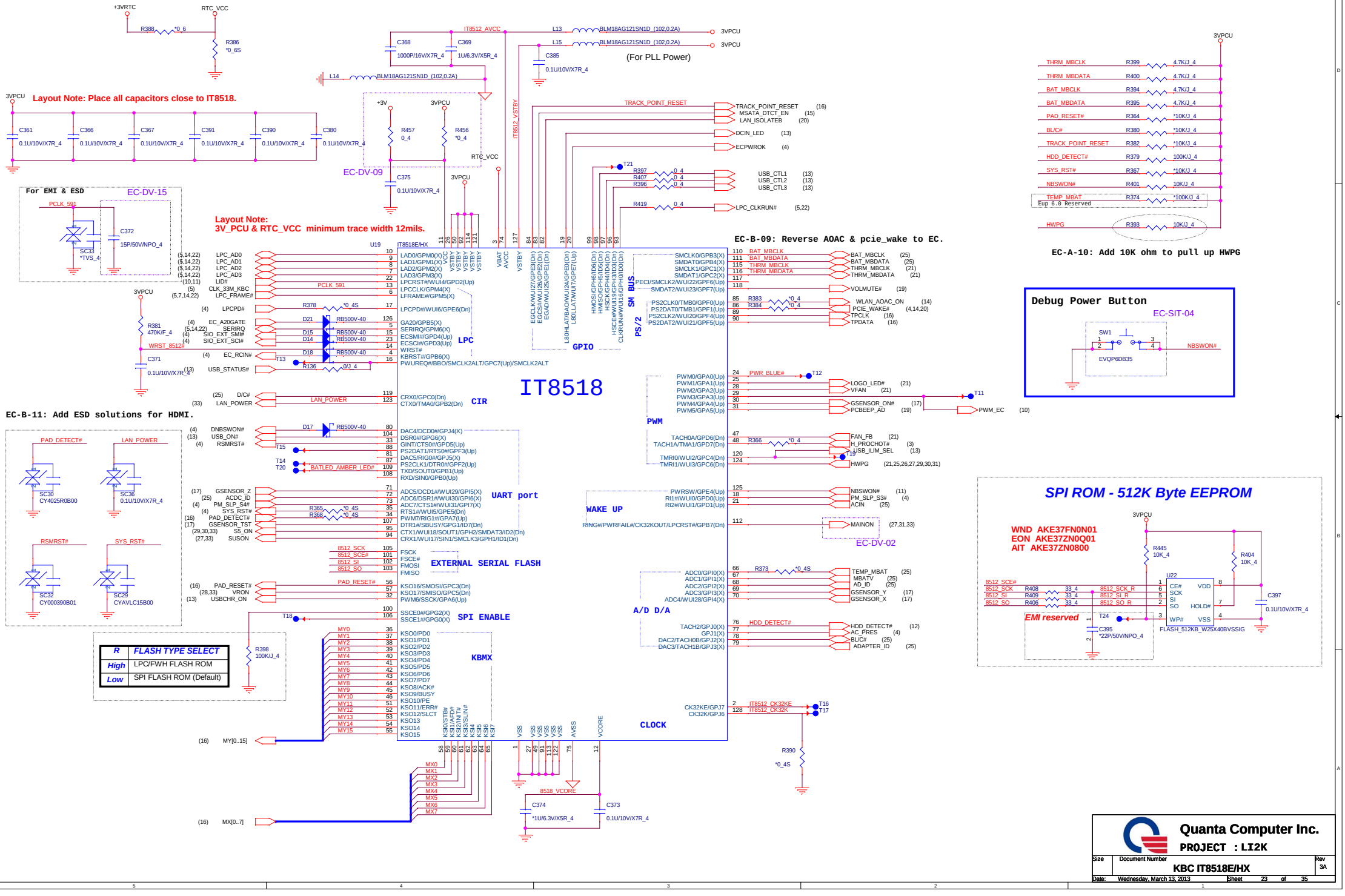
TPM



supplier P/N: ST33ZP24AR28PVSH
Quanta P/N: AL33ZP24K02
F/P:tssop28-6_4-65-1_2h

Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: FAN/Thermal/LED/RFID	Rev: 3A
Date: Wednesday, March 13, 2013	Sheet 22 of 35	

EC: KBC IT8518E/HX



Hole For CPU support

HOLE3 *H-C142D142N
HOLE2 *H-C142D142N
HOLE5 *H-C142D142N
HOLE6 *H-C142D142N

MiniCard WWAN

HOLE16 H-TC217BIC142D102P2

MiniCard WLAN

HOLE15 H-TC217BIC142D102P2

Optics Point

PAD6 *SS-FM_CMP
PAD2 *SS-FM_CMP
PAD5 *SS-FM_CMP
PAD3 *SS-FM_CMP
PAD1 *SS-FM_CMP
PAD4 *SS-FM_CMP

Boundary Hole

HOLE4 *H-TC5I3BC5_4D2_2P2
HOLE7 *H-C71d71n
HOLE1 *hg-tc7_4i5bc6d2_3p2
HOLE12 *hg-tc217bc294d87p2
HOLE14 *HG-C217D87P2
HOLE13 *HG-C217D87P2
HOLE8 *hg-tc7_4i5bc6d2_3p2
HOLE10 *HG-TC217BC256D87P2

CRT PAD

SPAD1 *Spad1

Keyboard

HOLE11 *O-FL7C-2

HOLE9 *H-O91X71D91X71N

EMI Reserved

+1.8V_S5
EC45 *0.1U/10V/X7R_4
EC48 *0.1U/10V/X7R_4
EC4 *0.1U/10V/X7R_4

+1.8V
EC69 *0.1U/10V/X7R_4
EC7 *0.1U/10V/X7R_4
EC55 *0.1U/10V/X7R_4

GND

EMI Reserved

+3V
EC50 *0.1U/10V/X7R_4
EC6 *0.1U/10V/X7R_4
EC19 *0.1U/10V/X7R_4
EC49 *0.1U/10V/X7R_4
EC58 *0.1U/10V/X7R_4
EC46 *0.1U/10V/X7R_4
EC54 *0.1U/10V/X7R_4
EC8 *0.1U/10V/X7R_4

+5V
EC52 *0.1U/10V/X7R_4
EC66 *0.1U/10V/X7R_4
EC44 *0.1U/10V/X7R_4
EC60 *0.1U/10V/X7R_4

3VPCU
EC30 *0.1U/10V/X7R_4
EC40 *0.1U/10V/X7R_4
EC38 *0.1U/10V/X7R_4
EC67 *0.1U/10V/X7R_4
EC70 *0.1U/10V/X7R_4
EC2 *0.1U/10V/X7R_4

GND

EMI Reserved

+1.35V_SUS
EC-DV-16
SC5 180P/50V/NPO_6
SC11 180P/50V/NPO_6
SC7 180P/50V/NPO_6
SC15 180P/50V/NPO_6

EMI Reserved

VIN
EC5 *0.1U/50V/X7R_6
EC3 *0.1U/50V/X7R_6
EC42 *0.1U/50V/X7R_6
EC25 *0.1U/50V/X7R_6
EC34 *0.1U/50V/X7R_6
EC53 *0.1U/50V/X7R_6
EC62 *0.1U/50V/X7R_6
EC43 *0.1U/50V/X7R_6
EC20 *0.1U/50V/X7R_6
EC63 *0.1U/50V/X7R_6

GND

5VPCU
EC33 *0.1U/10V/X7R_4
EC51 *0.1U/10V/X7R_4
EC37 *0.1U/10V/X7R_4
EC15 *0.1U/10V/X7R_4
EC64 *0.1U/10V/X7R_4

GND

EMI Reserved

+1.5V
EC47 *0.1U/10V/X7R_4
EC35 *0.1U/10V/X7R_4
EC39 *0.1U/10V/X7R_4
EC57 *0.1U/10V/X7R_4

GND

EMI Reserved

Quanta Computer Inc.
PROJECT : LI2K

Size	Document Number	Rev
	Screw Hole/EMI/ESD	3A
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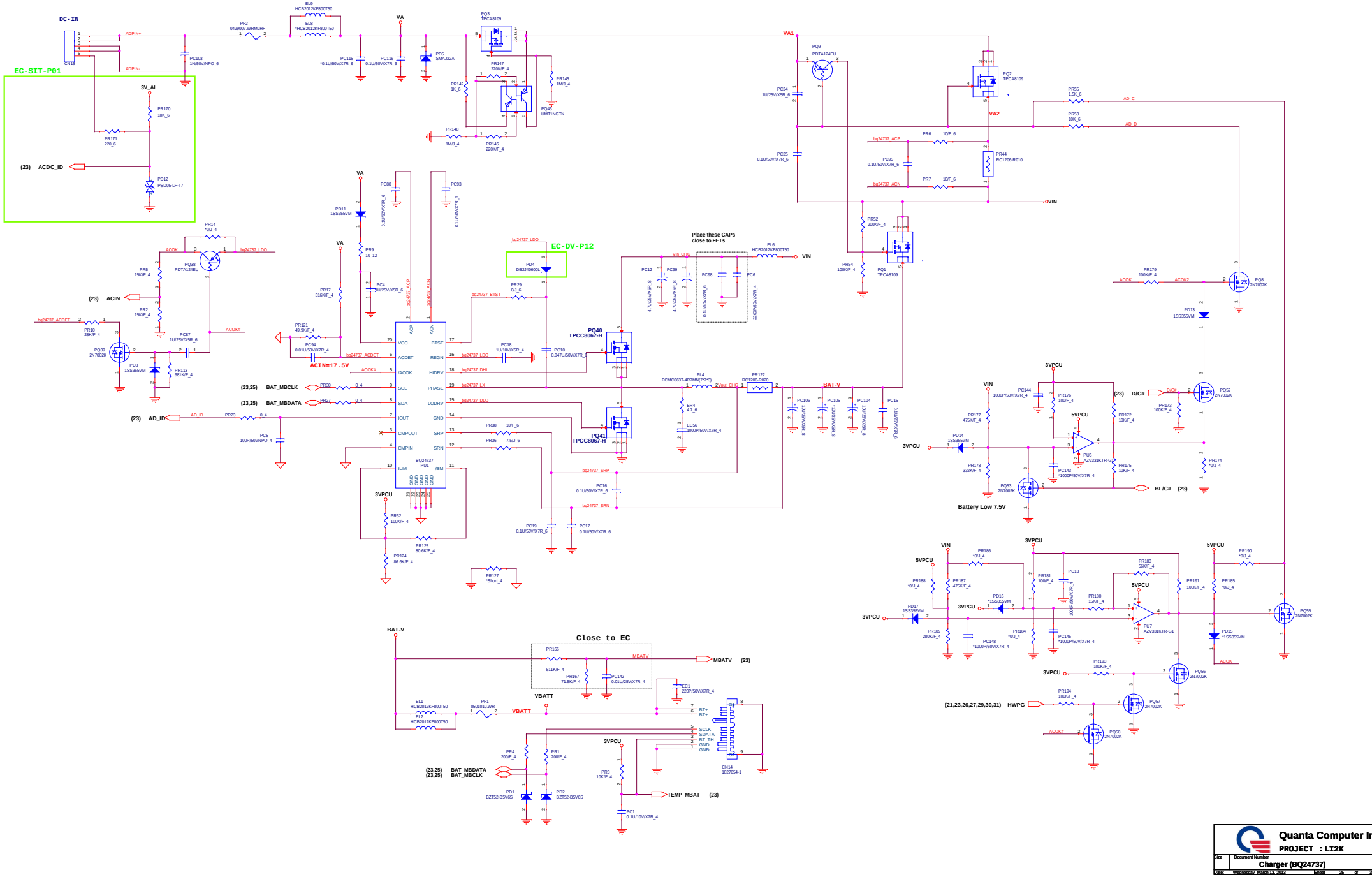
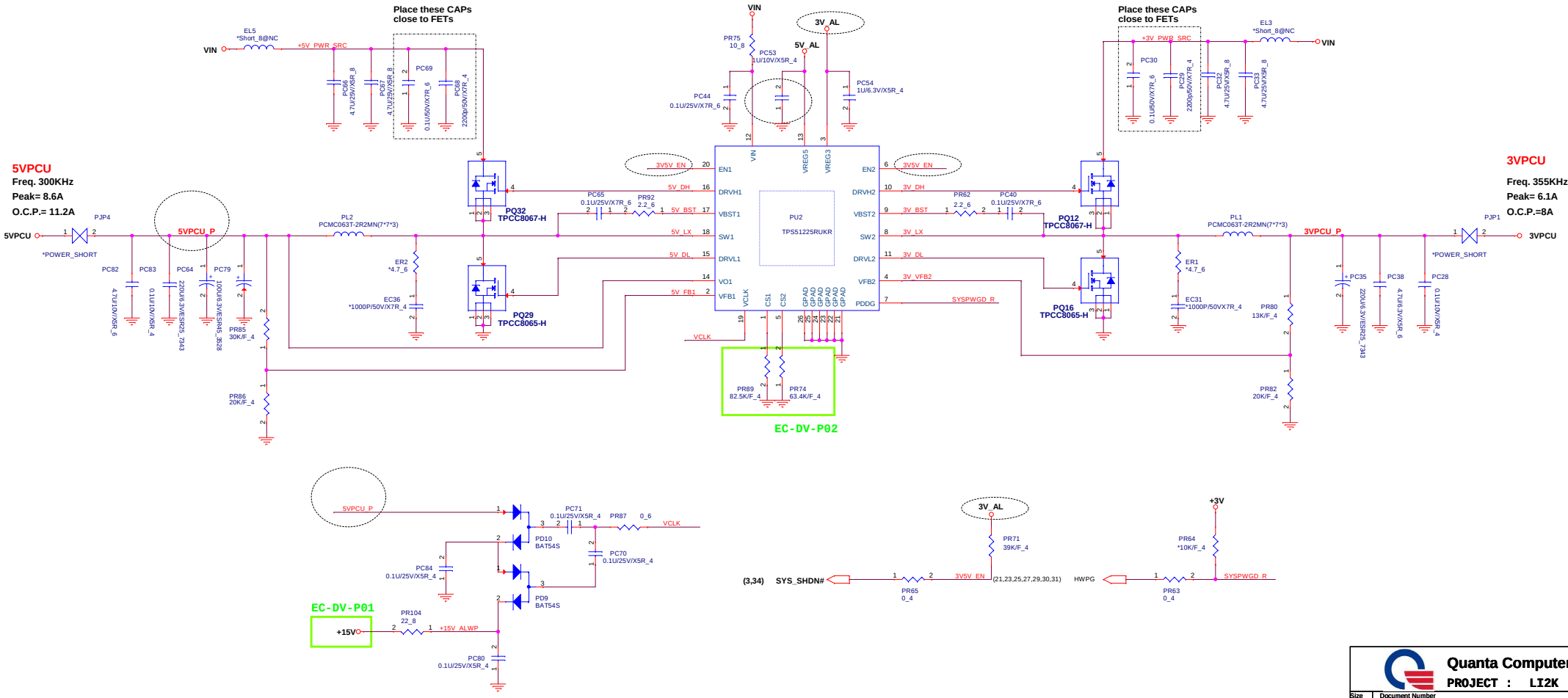
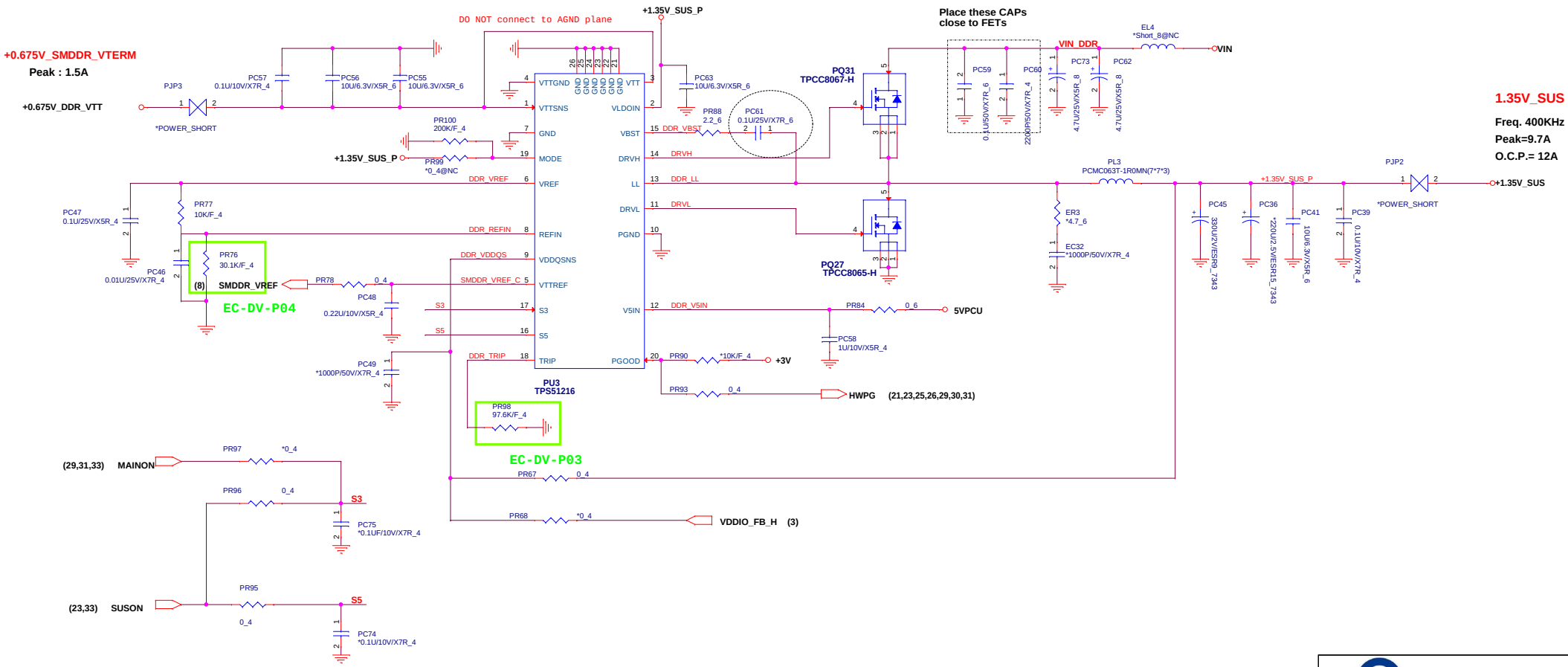

DC-IN
EC-SIT-P01
EC-DV-P12
Place these CAPs close to FETs
Close to EC
ACIN=17.5V
Battery Low 7.5V
BQ24737
Quanta Computer Inc.
PROJECT : LI2K
Charger (BQ24737)

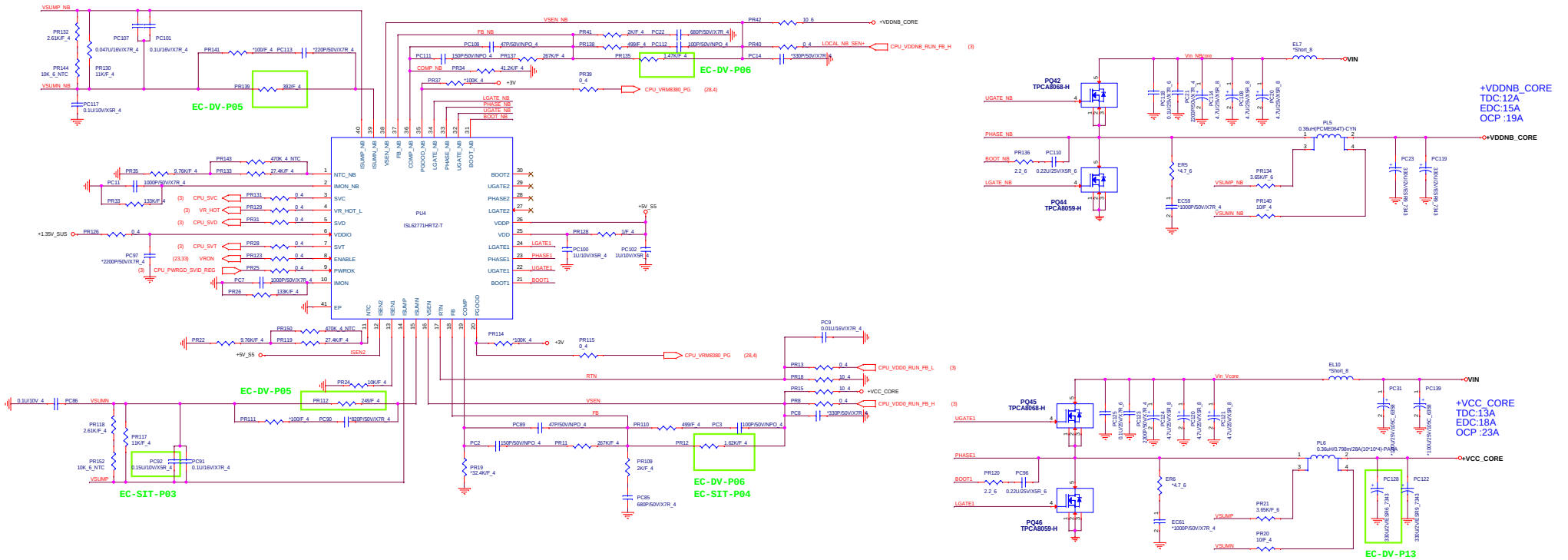


Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: SYSTEM 3V/5V (TPS51225RUKR)	Rev 1A
Date: Wednesday, March 13, 2013	Sheet 26 of 34	

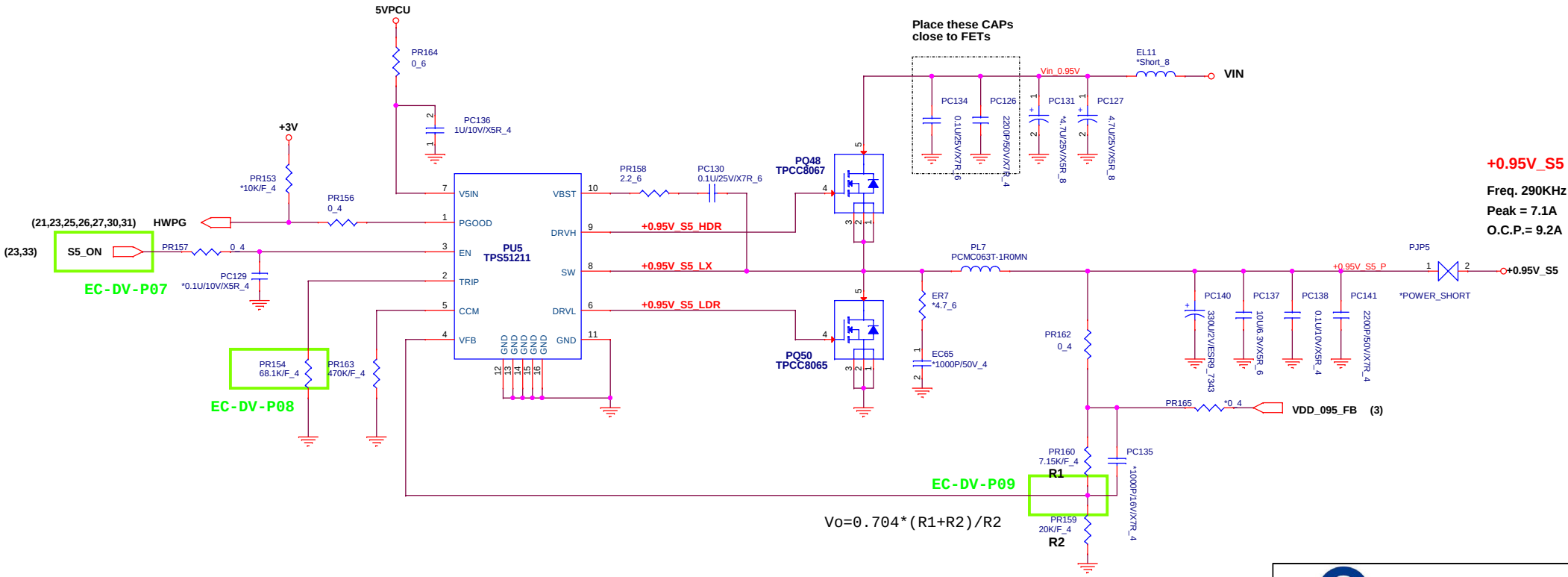


Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: DDR (TPS51216)	Rev: 1A
Date: Wednesday, March 13, 2013	Sheet 27 of 34	

VCC_CORE/VDDNB_CORE (ISL62771HRTZ-T)



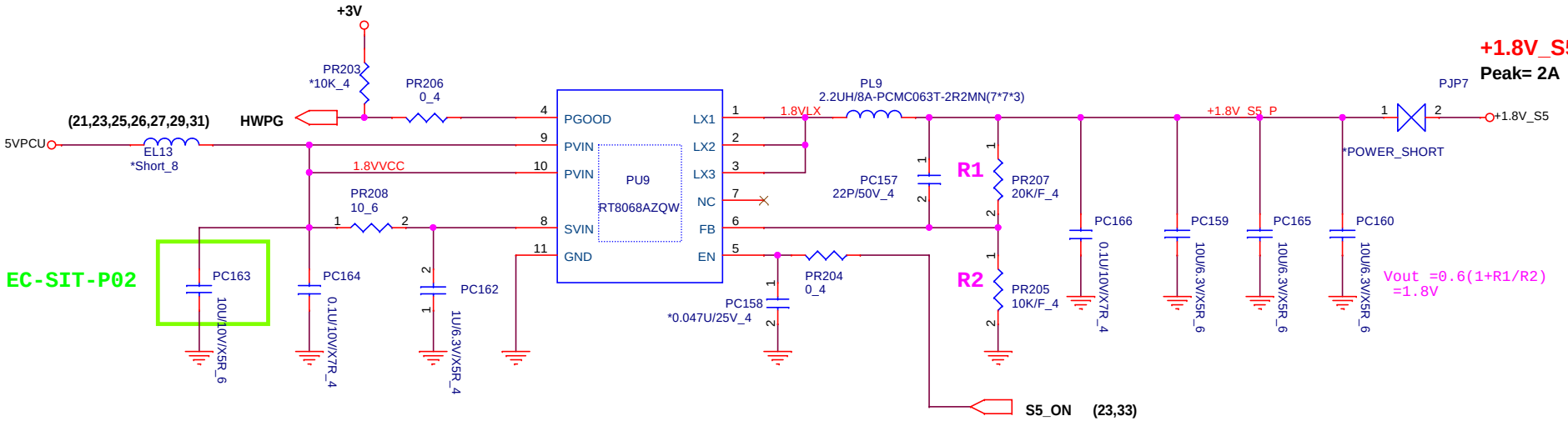
Quanta Computer Inc.
PROJECT : LI2K
Size | Document Number: VCC_CORE/NB_CORE (ISL62771HRTZ-T) | Rev: 1A
Date: Tuesday, March 26, 2013 | Sheet 28 of 34



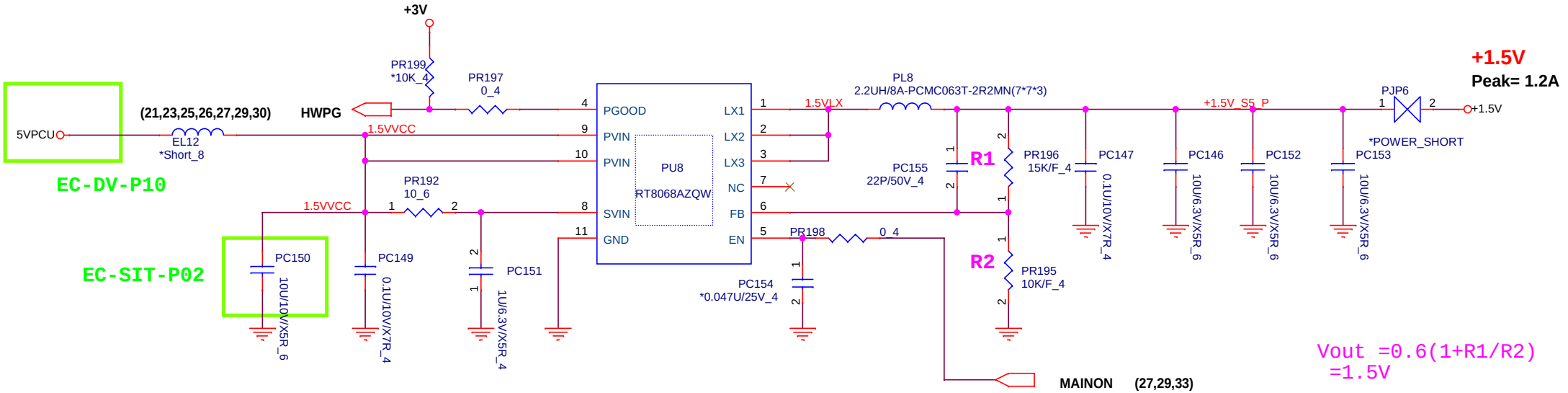
Quanta Computer Inc.

PROJECT : LI2K

Size	Document Number	Rev
	0.95V_S5(TPS51211)	1A
Date: Wednesday, March 13, 2013	Sheet 29 of 34	



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: +1.8V_S5 (RT8068)	Rev: 3A
Date: Tuesday, March 26, 2013	Sheet 30 of 34	



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: +1.5V (RT8068)	Rev: 3A
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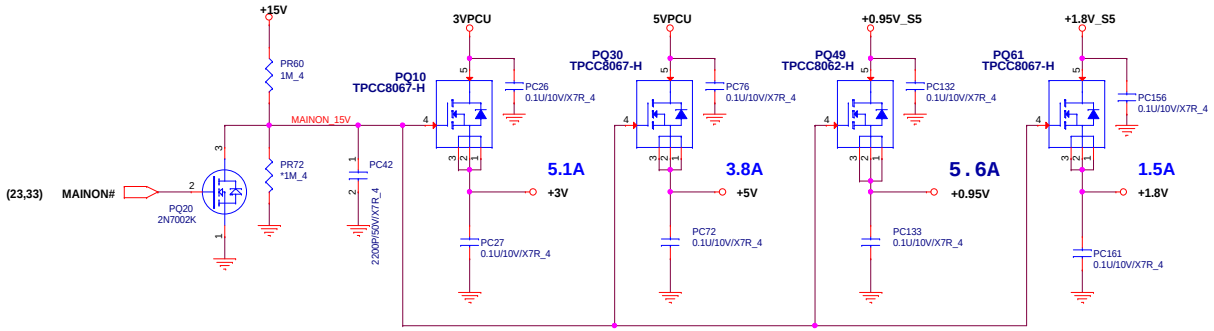
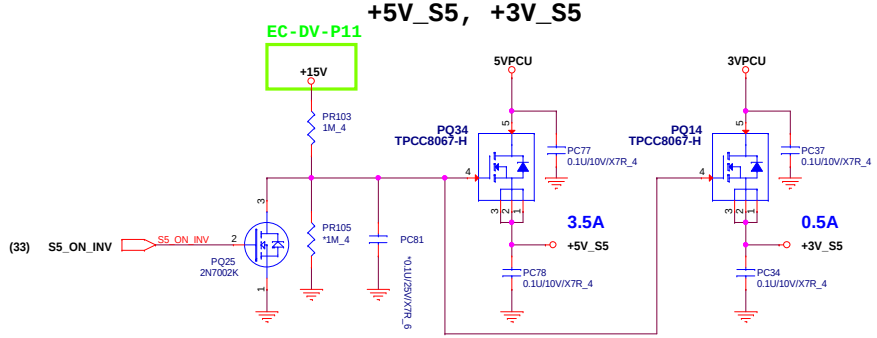
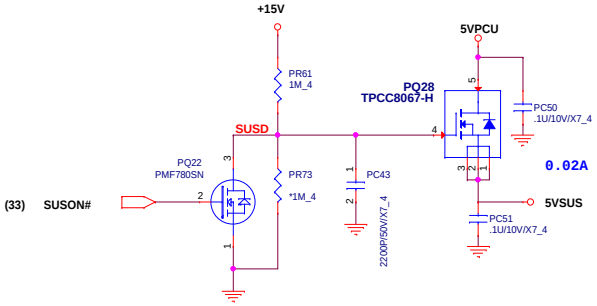
+3V, +5V, +0.95V, +1.8V, +1.5V



+5V_S5, +3V_S5

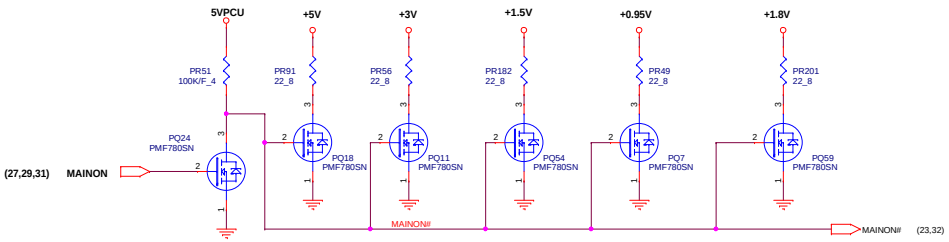




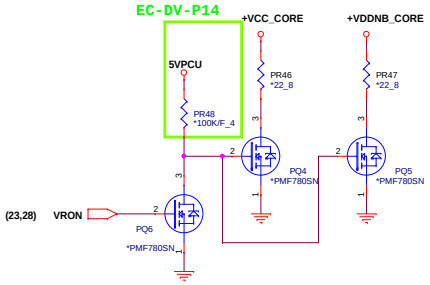
Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: Load Switch	Rev: 1A
Date: Wednesday, March 13, 2013	Sheet 32 of 34	

DISCHARGE

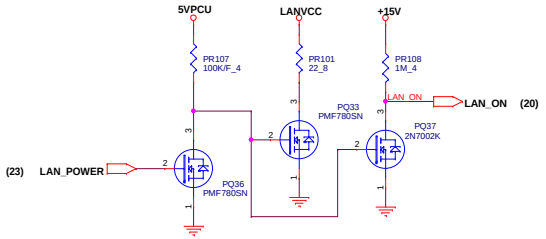
+3V, +5V, +1.5V, +0.95V, +1.8V



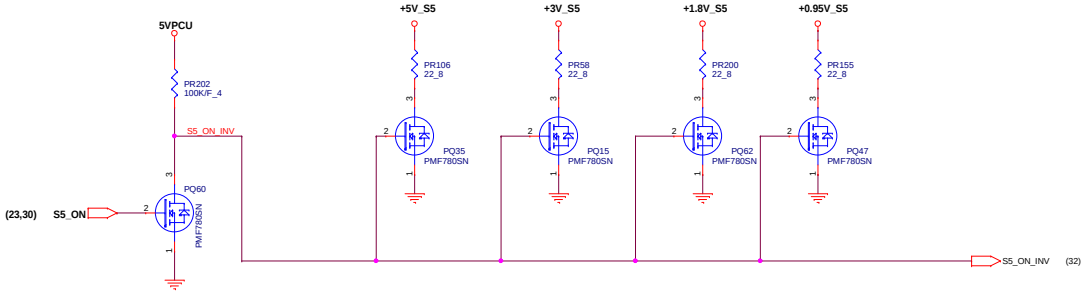
+VCC_CORE, +VDDNB_CORE



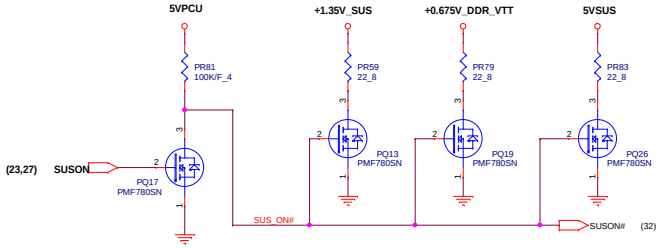
LANVCC



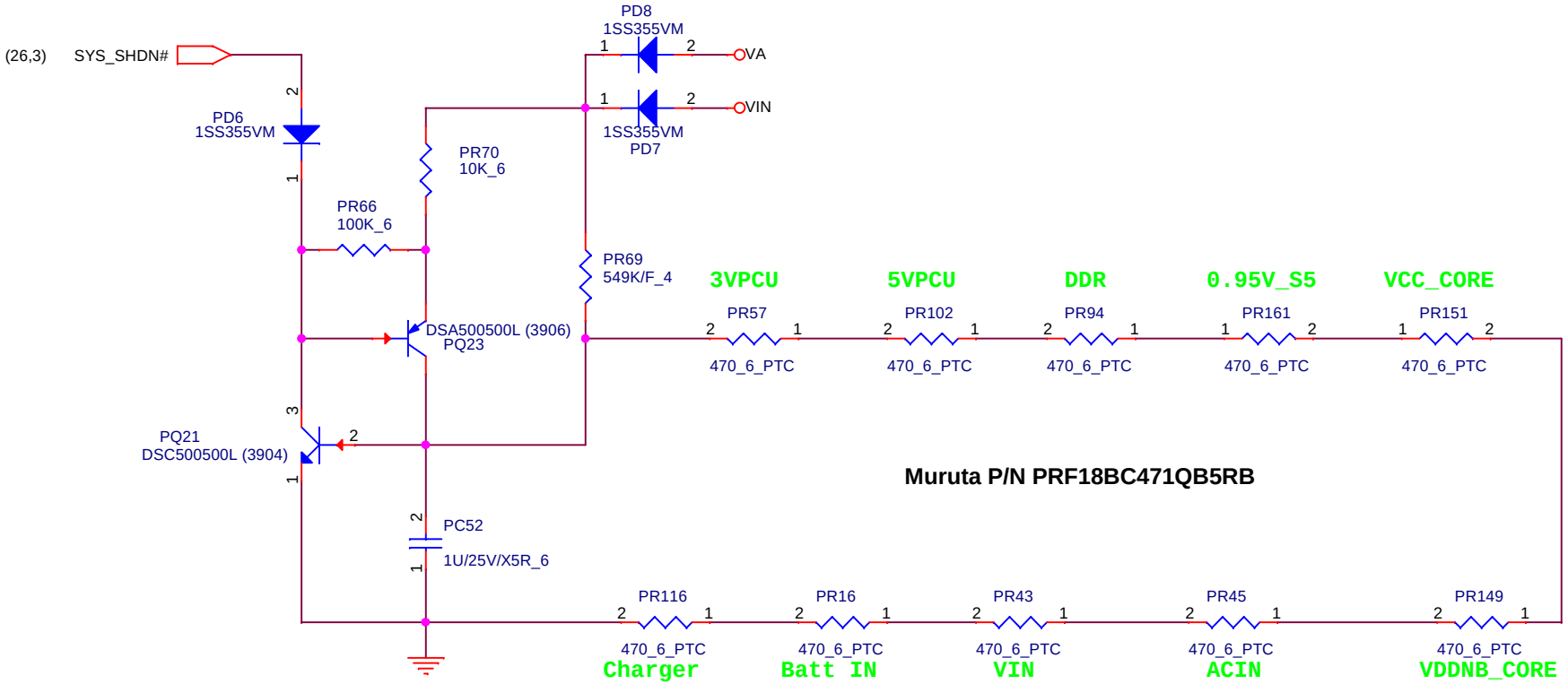
+1.5V_S5, +5V_S5, +3V_S5, +1.8V_S5, +0.95V_S5, +1.2V_S5



5VSUS, +1.35V_SUS,+0.675V_DDR_VTT



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: Discharge	Rev: 3A
Date: Wednesday, March 13, 2013	Sheet 33 of 34	



Quanta Computer Inc.		
PROJECT : LI2K		
Size	Document Number: PTC Circuit	Rev: 1A
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LI2K Schematic EC Tracking Record A to B version

EC #	Page	Description	Part Affected
EC-DV-01	6	Correct the footprint 0402 to 0603	C20,C50
EC-DV-02	23	Correct the Netname mainon# to mainon	
EC-DV-03	5	Change symbol pin number(Pin1 and Pin2)	U17
EC-DV-04	5	Change 32.768K XTAL Y2 to small one.	Y2,C324,C325
EC-DV-05	11	R447 stuff and connect the SMB data to fix HDMI no output.	R447
EC-DV-06	20	Swap the P/N net to correct.	
EC-DV-07	19	Change audio VDDIO to +1.5V for Kabini platform only	
EC-DV-08	2	R362 stuff by AMD confirmation	R362
EC-DV-09	23	Reserved the path 3VPCU/+3V for EC pin 11 to prevent currnet leakage	R456,R457
EC-DV-10	11	R146 change the value from 464 to 499	R146
EC-DV-11	13	Increase the USB FFC power pin	
EC-DV-12	16	Modify CN10 Pin 11,Pin 12	
EC-DV-13	11	Un-stuff to Stuff for EMI solution in HDMI	R420,R425,R430,R438
EC-DV-14	10,13	Stuff for EMI Common choke in USB	CML1,CML2,CML3,CML4,R19,R23,,R86,R87,R101,R102,R131,R132
EC-DV-15	4,23	Un-stuff to Stuff for EMI solution	C328,C372
EC-DV-16	24	Un-stuff to Stuff for EMI solution	SC5,SC7,SC11,SC15
EC-DV-17	11	Chagne the value for EMI suggestion	L1,L2,L3,C2,C5,C8,C11,C12,C15
EC-DV-18			
EC-DV-19			
EC-DV-20			
EC-DV-21			
EC-DV-22			
EC-DV-23			
EC-DV-24			
EC-DV-25			
EC-DV-26			
EC-DV-27			
EC-DV-28			
EC-DV-29			
EC-DV-30			

LI2K Schematic EC Tracking Record A to B version

EC #	Page	Description	Part Affected
EC-DV-P01	26	Correct the Netname to +15	
EC-DV-P02	26	Modify OCP resistance as designed	PR74, PR89
EC-DV-P03	27	Modify OCP resistance as designed	PR98
EC-DV-P04	27	Modify Voltage offset resistance as designed	PR76
EC-DV-P05	28	Modify OCP resistance as designed	PR112, PR139
EC-DV-P06	28	Modify Loadline resistance to fit AMD spec	PR12, PR135
EC-DV-P07	29	Correct the Netname to S5_ON	
EC-DV-P08	29	Modify OCP resistance as designed	PR154
EC-DV-P09	29	Correct the connection	
EC-DV-P10	31	Change +1.5V Vin source to 5VPCU	
EC-DV-P11	32	Correct the Netname to +15	
EC-DV-P12	25	Change PD4 to Panasonic for ECSL	PD4
EC-DV-P13	28	Change PC128 to ESR6 for ripple voltage	PC128
EC-DV-P14	33	Change PR48 to Non-pop	PR48
EC-DV-P15			

LI2K Schematic EC Tracking Record B to C version

EC #	Page	Description	Part Affected
EC-SIT-01	10	Change circiut design for RF LED active low behavior	Q5,R459,D22,D23,D24,R462,Q7,Q8,Q30,Q31,R460,R461,R463,R464
EC-SIT-02	4	Change diode source, due to single source.	D1,D3
EC-SIT-03	18	Correct the SD_WP connection, Fix the SD write protect function	R179
EC-SIT-04	23	Change SW1 to slim switch.	SW1
EC-SIT-05	5	Add GPIO75 to identfy Dutton & Jett MB	R324,R325
EC-SIT-06	4	Modify the RC value to meet AMD power-up sequence	R30,C18
EC-SIT-07	19	ESD suggest to cancel short pad, connect trace directly	R90,R91
EC-SIT-08	8,13,21	ESD suggest to stuff components	C357,C379,SC34,SC35,SC38
EC-SIT-09	24	EMI request to modify RES footprint	R168,R176,R192,R197
EC-SIT-10	11	EMI request to modify RES value	R420,R425,R430,R438,R146
EC-SIT-11	11,13	SMT request to mofify footprint	SU9,SU10,SU11,SU12,SU13

LI2K Schematic Power EC Tracking Record B to C version

EC #	Page	Description	Part Affected
EC-SIT-P01	25	Correct the Adapter ID pin detection circuit	
EC-SIT-P02	31,31	Change the MLCC voltage range to meet component de-rating requirement	PC163,PC150
EC-SIT-P03	28	Base on APU load line requirement, follow IC FAE suggestion to change it	PC92
EC-SIT-P04	28	Base on APU load line requirement, follow IC FAE suggestion to change it	PR12