

# Y0B 13.3" INTEL SYSTEM DIAGRAM

1

+3VS5/+5VS5
PG.29
+1.05V/+1.5V
PG.30
CPU Core
PG.32
DDR3L
PG.31
Charger
PG.28

Memory DDR3L 4PCs (x16)	1600MT/s	DDR3 L Channel A
PG.12		
Memory DDR3L 4PCs (x16)	1600MT/s	DDR3 L Channel B
PG.13		

**Intel Bay Trail-M**

Power : 5 (Wat t)

Package : BGA1170

Size : 25 X 27 (mm) <sub>HP</sub>

PG.2~11

eMMC 32G	MMC
PAGE 23	

PCI-E x3	
LANE3	LANE1
Card Reader RTS5239	WLAN BT COMBO
PG.20	PG.26

KBC IT8987				LPC
PG.27				
LPC Interface	TPM	KB	TP	ROM
	SLB9665 PG. 21	PG. 22	PG. 22	PG. 6


Azalia	AUDIO CODEC ALC 3227		PG.18
Front Speaker		PAGE 19	
Hp		Combo Jack	
		PG. 19	
MIC			

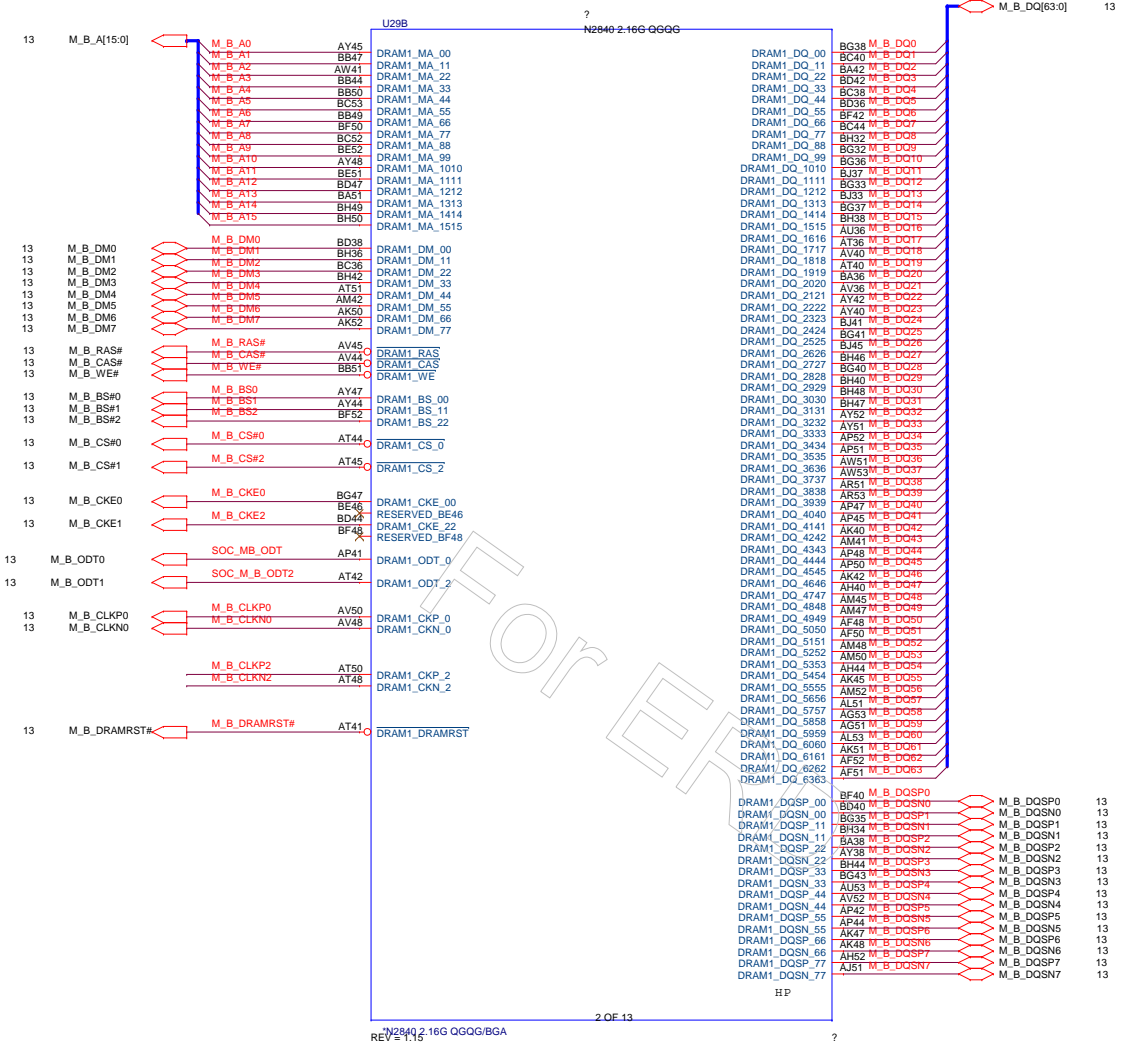
eDP	eDP	eDP	eDP
PG.16	PG.16	PG.16	PG.16
DP to LVDS Converter RTD 2132	LVDS Interface	LVDS	HDMI
PG.15		PG.16	PG.17
DDI (5.4Gb/s)	DP Port0		
USB 3.0	USB2.0 /3.0 Combo X1	BT (combo card)	
	PG.23	PG.26	
	Port1	WWAN card	
		PG.23	
	USB2.0 HUB GL850	USB2.0*2	
	PG.24	PG.23	
USB 2.0	PORT0	PORT3	
	PORT2	PORT4	
	PORT3	Port1 & 2	
	Touch Screen	Webcam	
	PG.16	PG.16	

Stackup
TOP
GND
IN1
IN2
VCC
BOT

www.vinafix.com

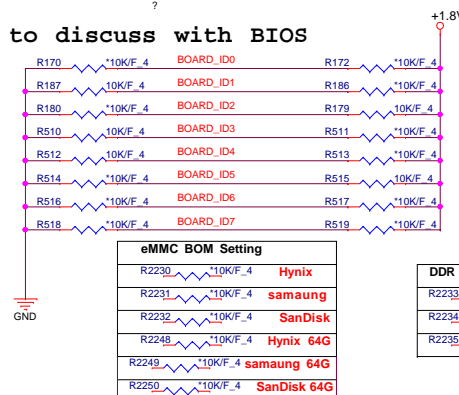








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Need to discuss with BIOS



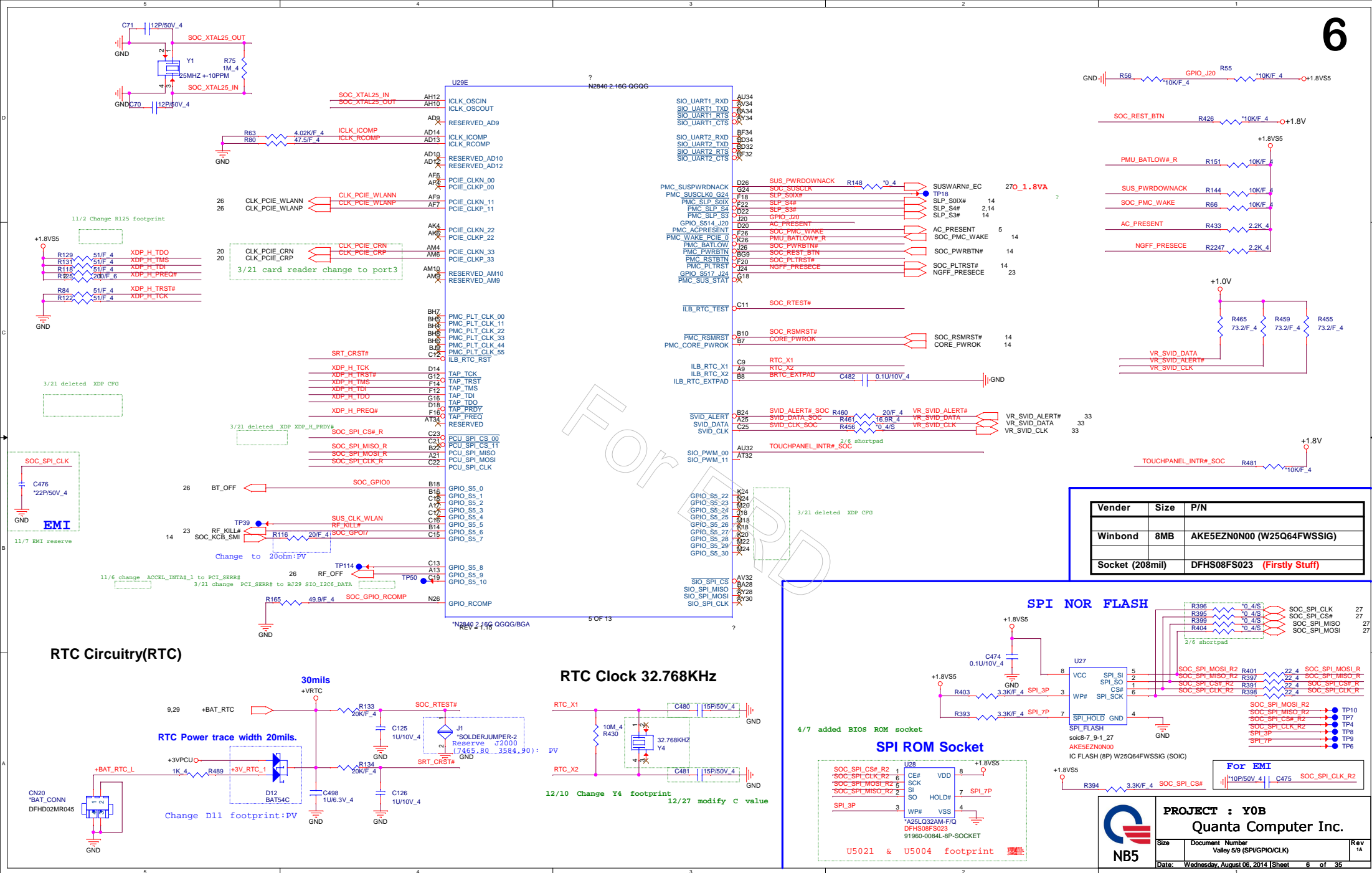
DDR BOM Setting	
R2233  *10K/F_4	R2251  *10K/F_
R2234  *10K/F_4	R2252  *10K/F_
R2235  *10K/F_4	R2253  *10K/F_

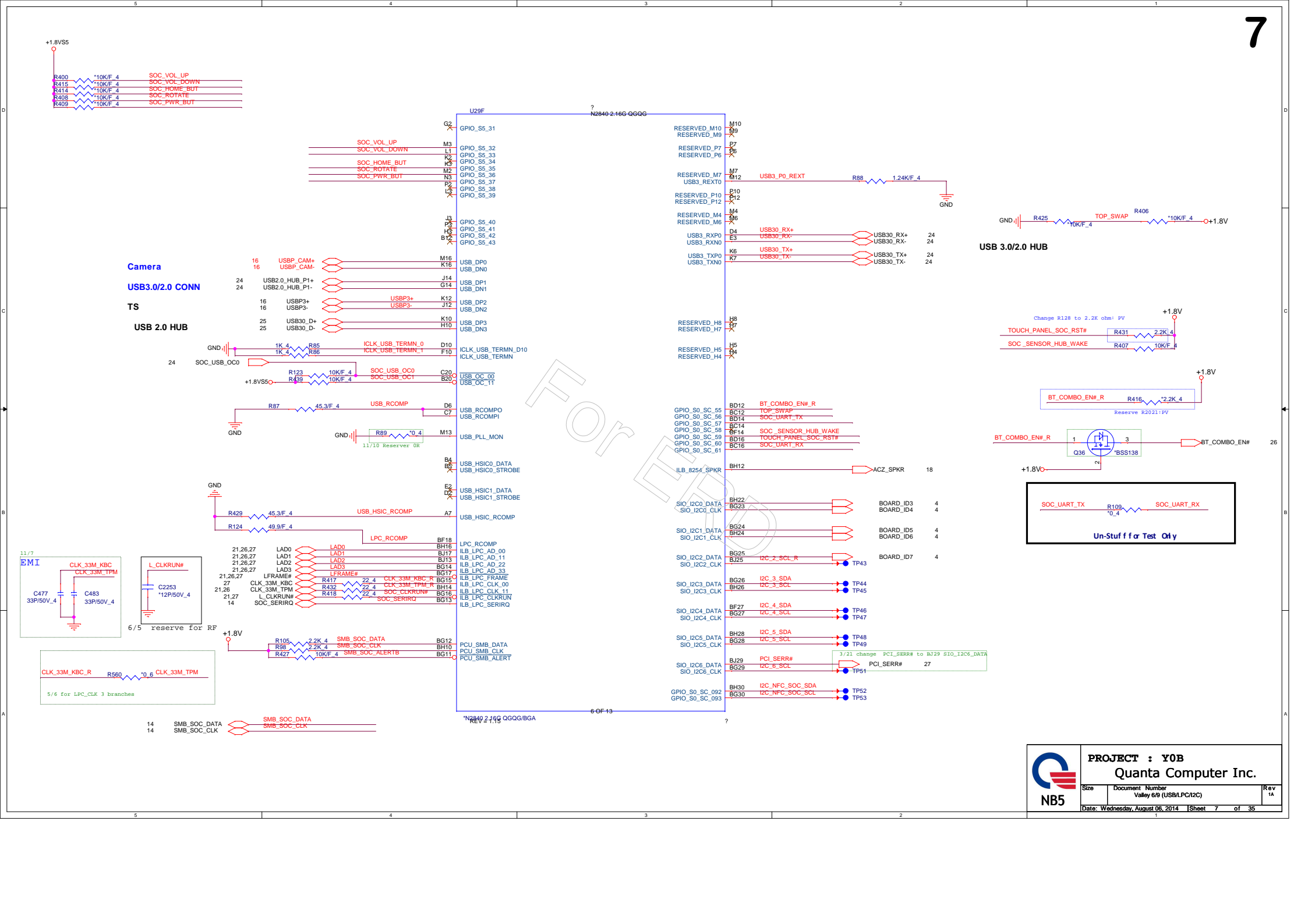


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Quanta Computer Inc.

Size	Document Number Valley 3/9 (Display)	Re 1/
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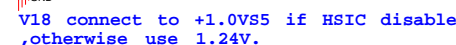


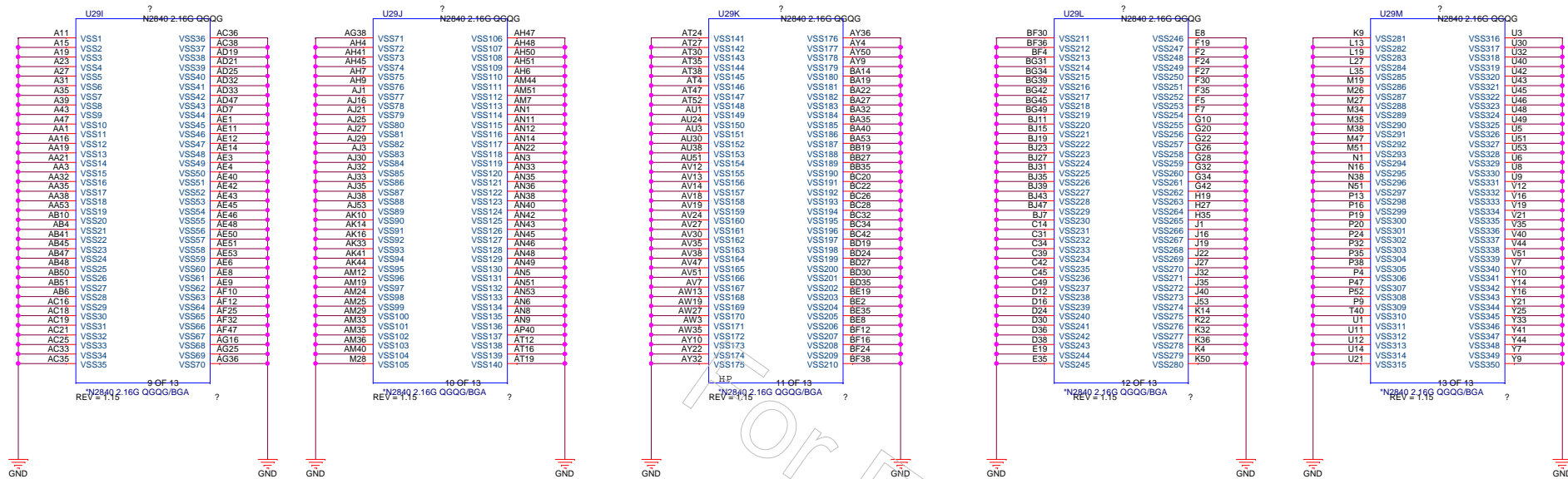






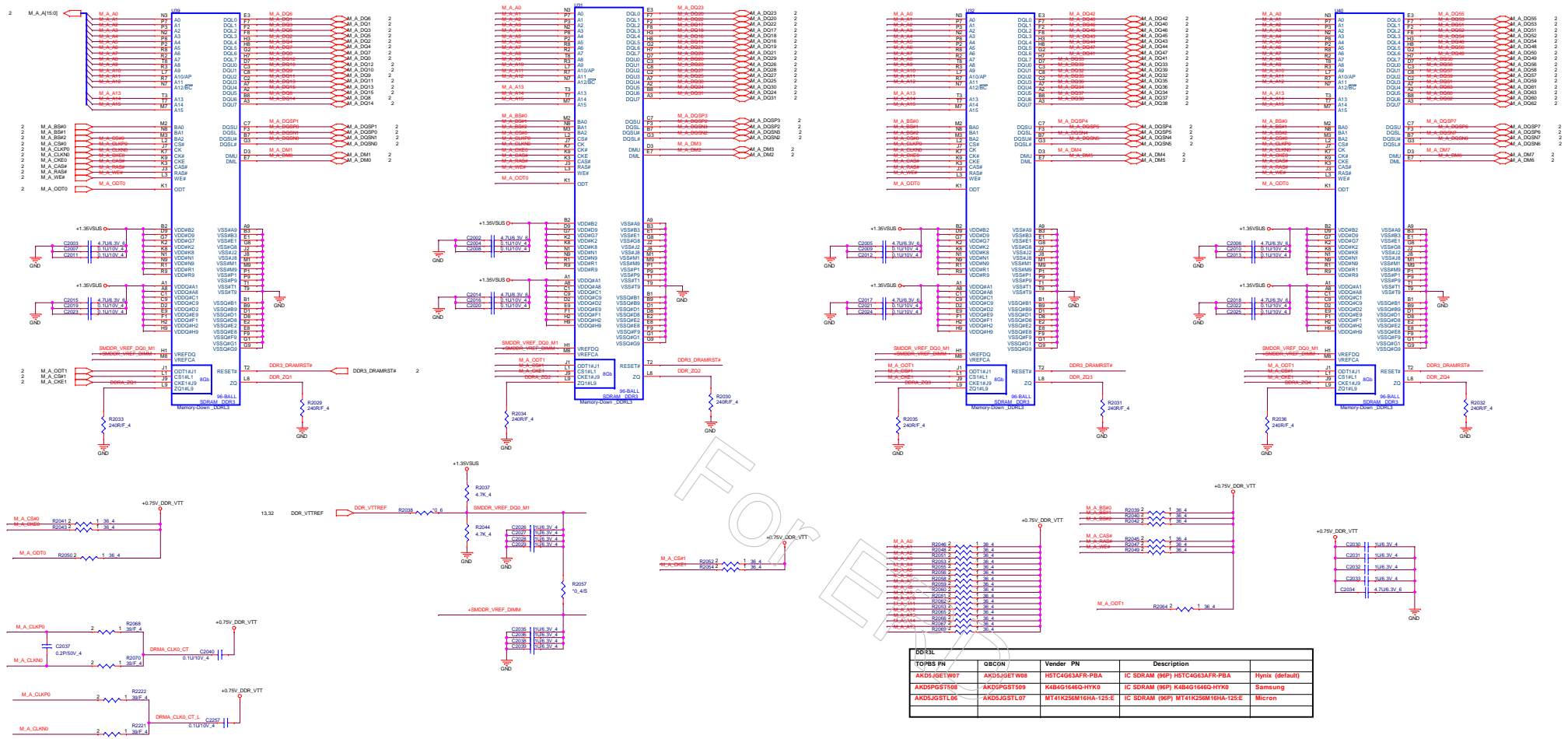


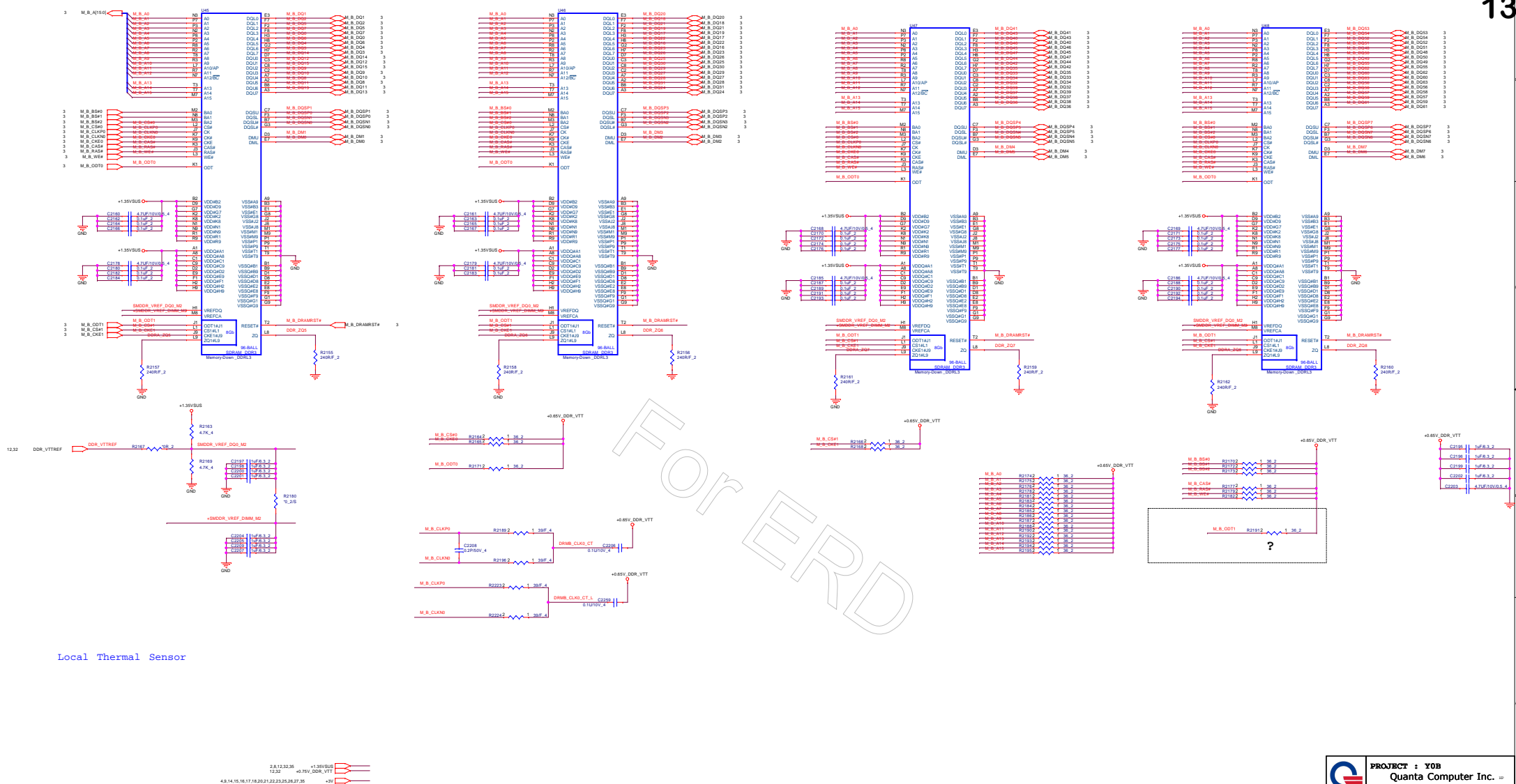


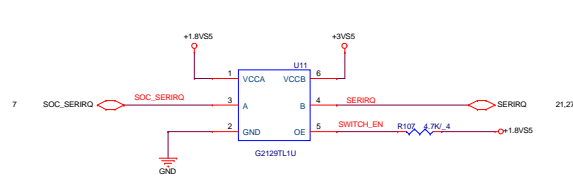


3/21 deleted XDP CN6

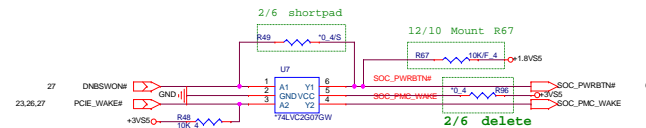
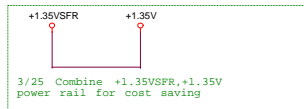
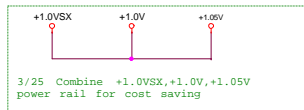
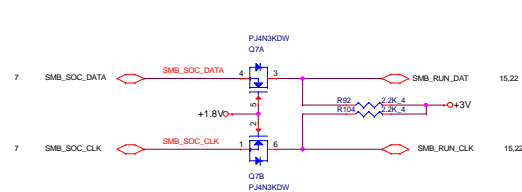
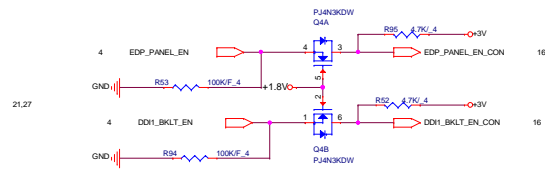
For ERD



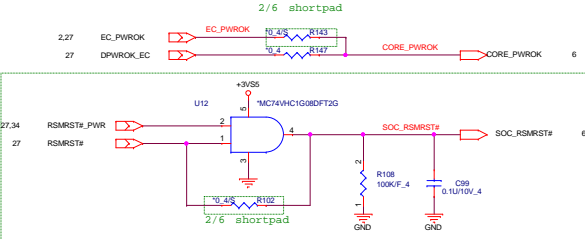
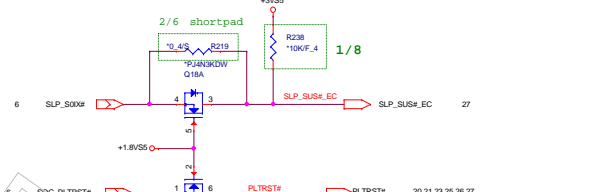
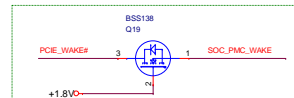




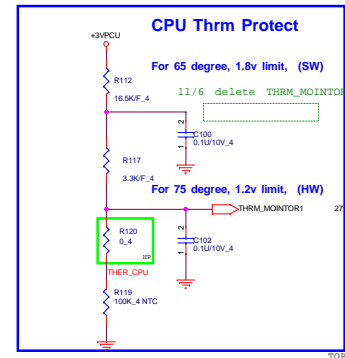
11/4 Delete deplicate TP lever shift



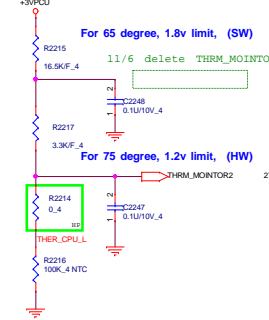
2/6 delete




11/5 Add AND gate

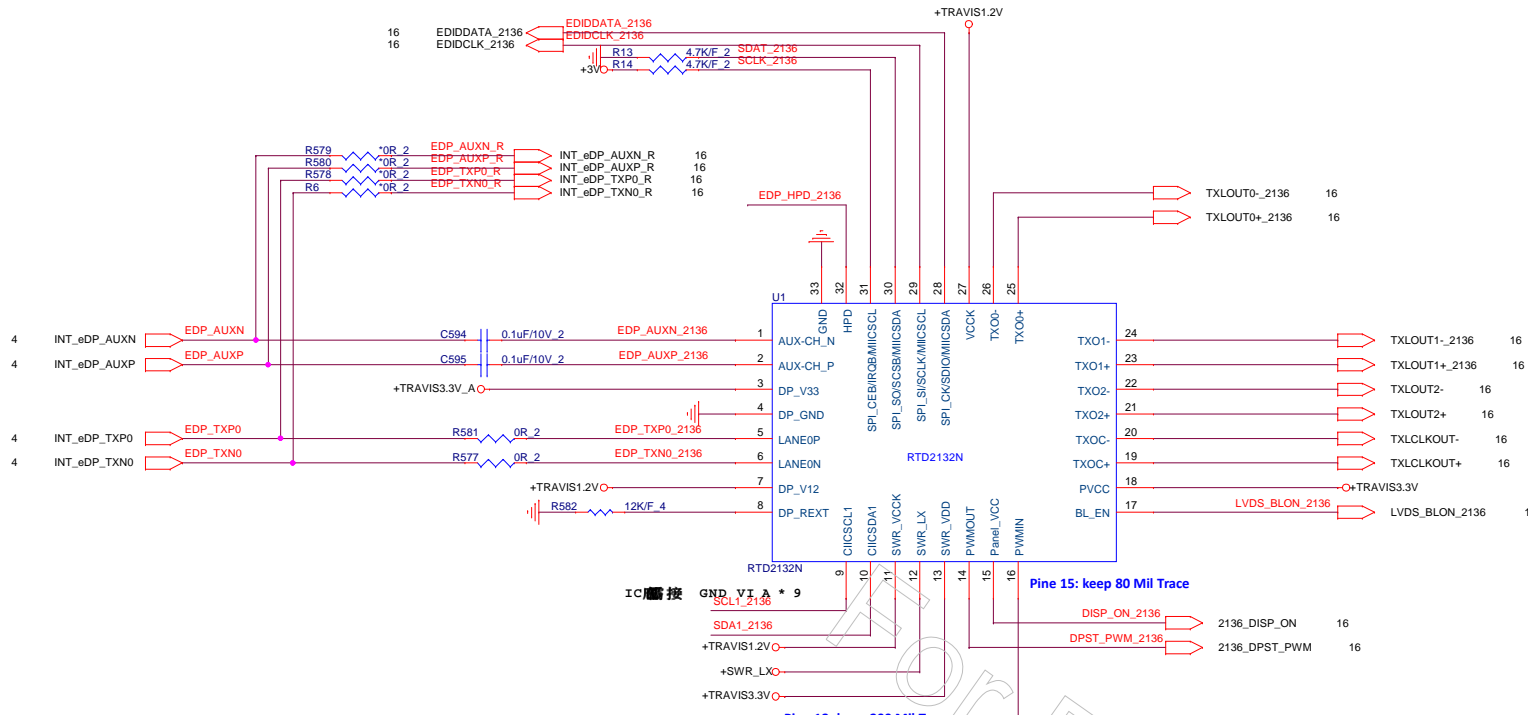
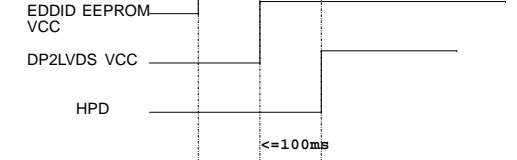


Power Thrm Protect



 NB5	PROJECT : Y0B				Rev 1A
	Quanta Computer Inc.				
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# RTD2136S Power Up Sequence 15



IC 廠接

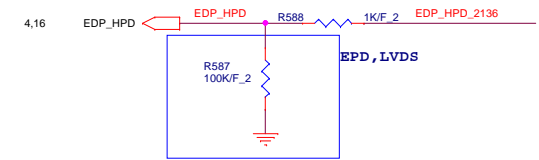
Pine 15: keep 80 Mil Trace

Pine 13: keep 200 Mil Trace

Default : ROM ONLY MODE

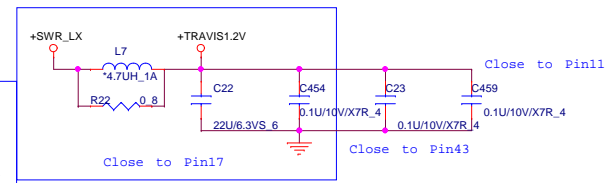
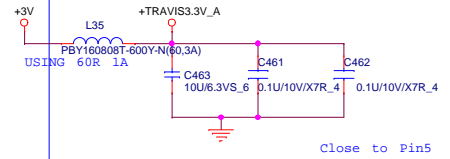
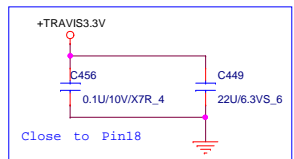
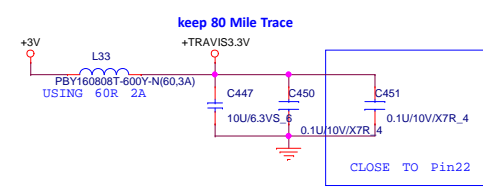
		MODE_CFG0(PIN47)	
		0	1
MODE_CFG1(PIN48)	0	X	EP MODE
	1	ROM ONLY MODE	EEPROM MODE

EC SMBUS



4,9,14,16,17,18,20,21,22,23,25,26,27,35 +3V

L8: need use CV-4709MN00 for Vendor suggestion



SWR MODE	LDO MODE
Stuf f L8	Stuf f R86

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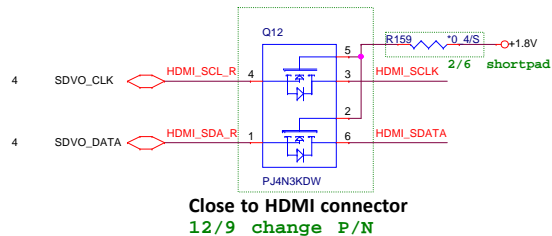
Size	Document Number	Rev
	RTD2136	1A
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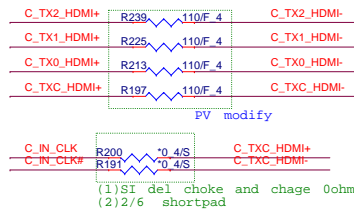


## HDMI Conn.

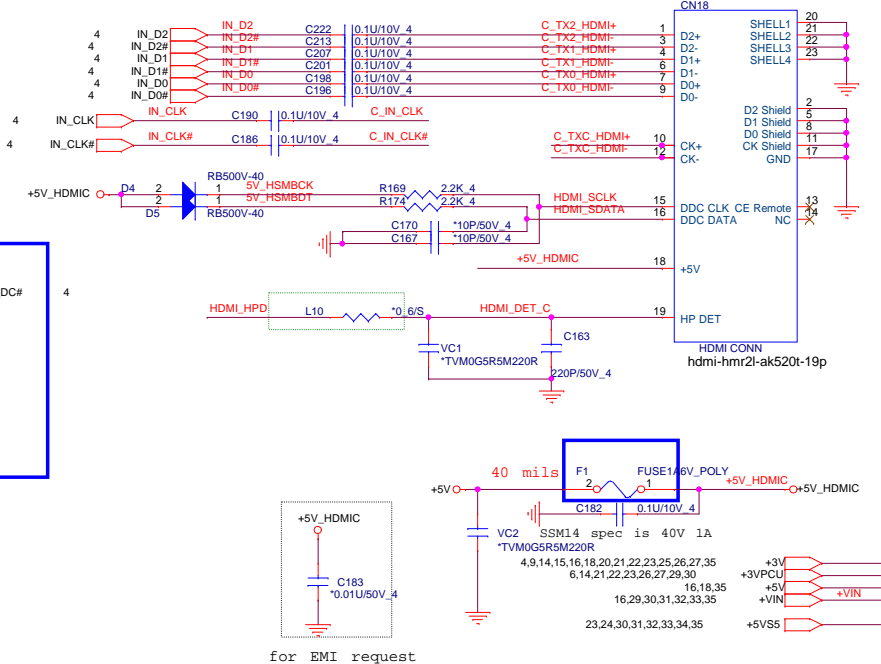
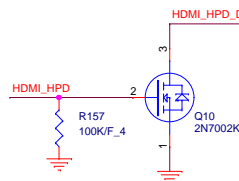
### HDMI SMBus Isolati on



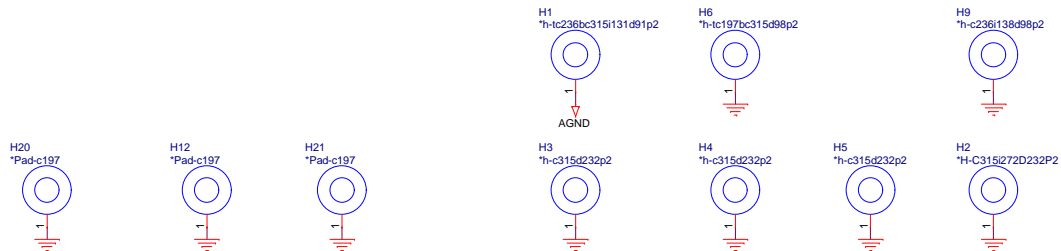
### EMI Solut i on



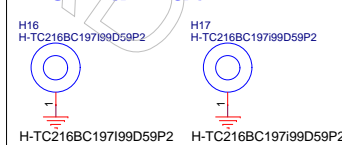
### FOLLOW W03



## Hole

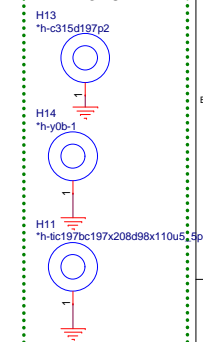


## Thermal Nut

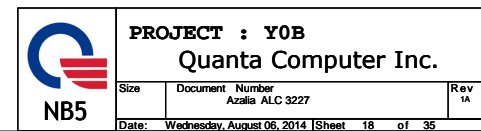


### 11/5 Change CPU Bracket

#### CPU BKT

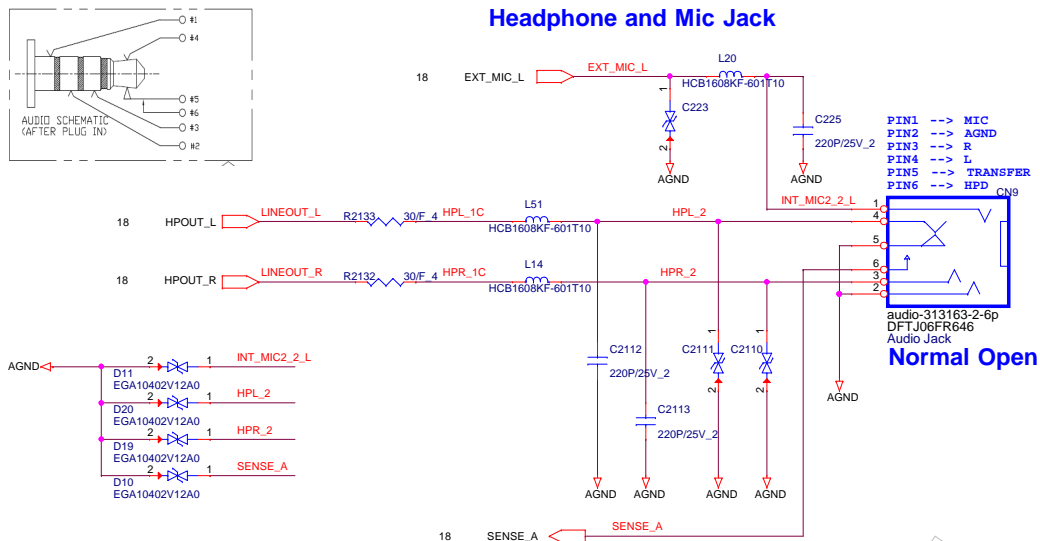


## EMI

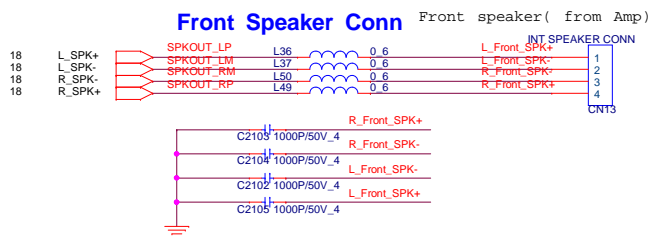


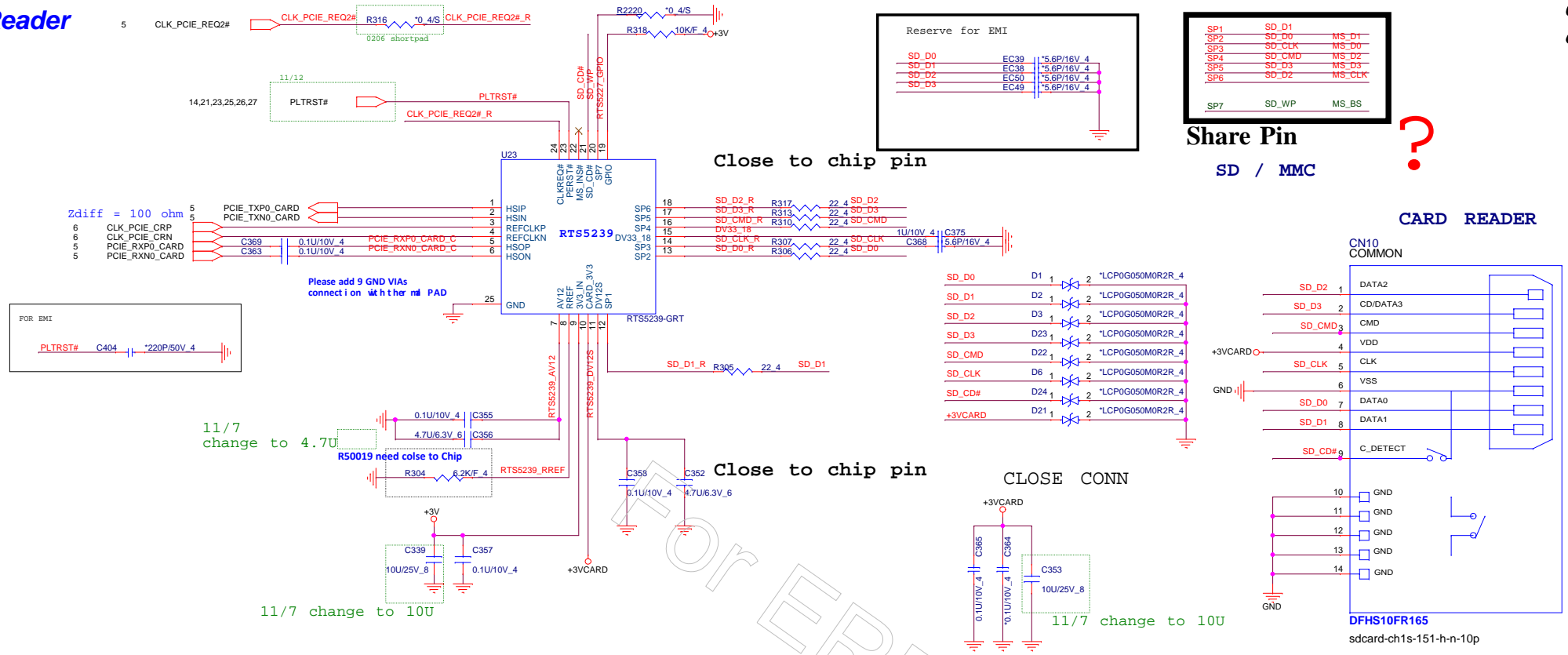
## Head Phone out

## Headphone and Mic Jack



## Int. SPEAKER

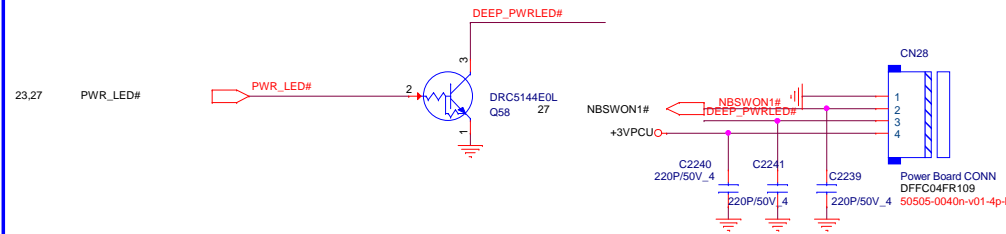




## 14" Menth Power Bottom Connector

11/14 Only for debug  
12/24 Delete debug power switch

Pin1 : +3VPCU(LIDSWITCH PWR)  
Pin2 : POWER LED  
Pin3 : LIDSWITCH  
Pin4 : GND  
Pin5 : GND  
Pin6 : POWERON#



## 13.3" Sangui ne Power Bottom Connector

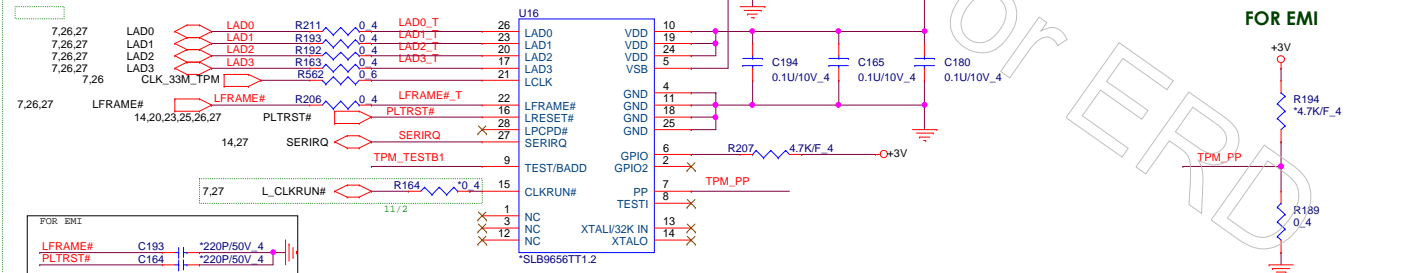
## 2/6 Unmount TPM and its related component

## TPM (1.2)

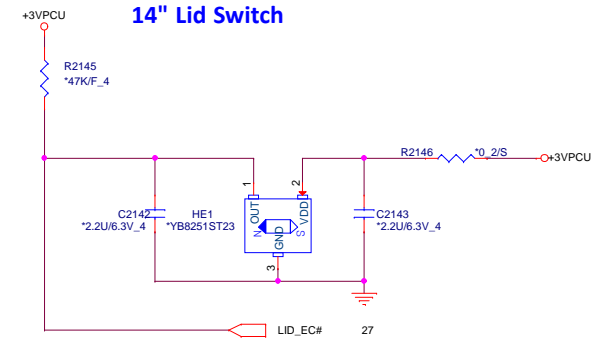
Address

	BADD
HIGH	4EH/4F (default)

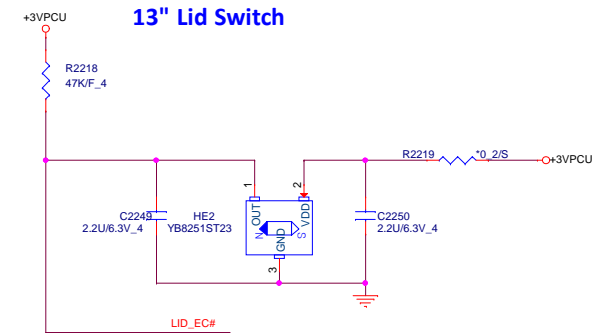
5/6 R562 for LPC\_CLK 3 branches, should be 12.5ohm



## 14" Lid Switch



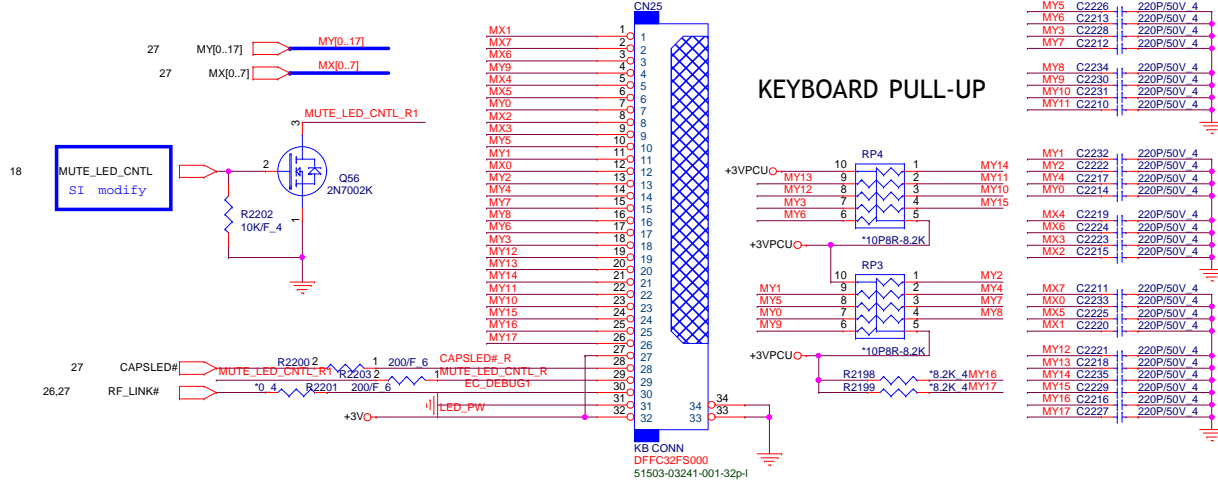
## 13" Lid Switch



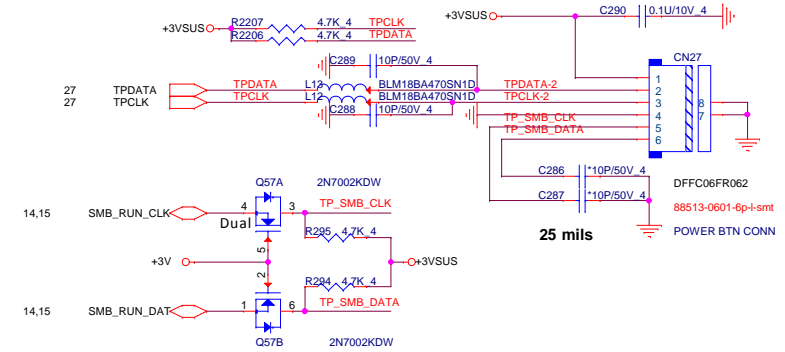
FAN

4,9,14,15,16,17,18,20,22,23,25,26,27,35 +3V  
16,17,18,35 +5V  
6,14,22,23,26,27,29,30 +3VPCU

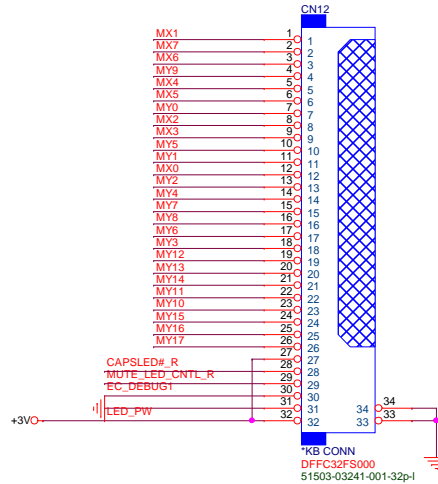
### 13.3" Sangü ne KEYBOARD Con



### 13.3" Sangü ne Touch Pad Connect

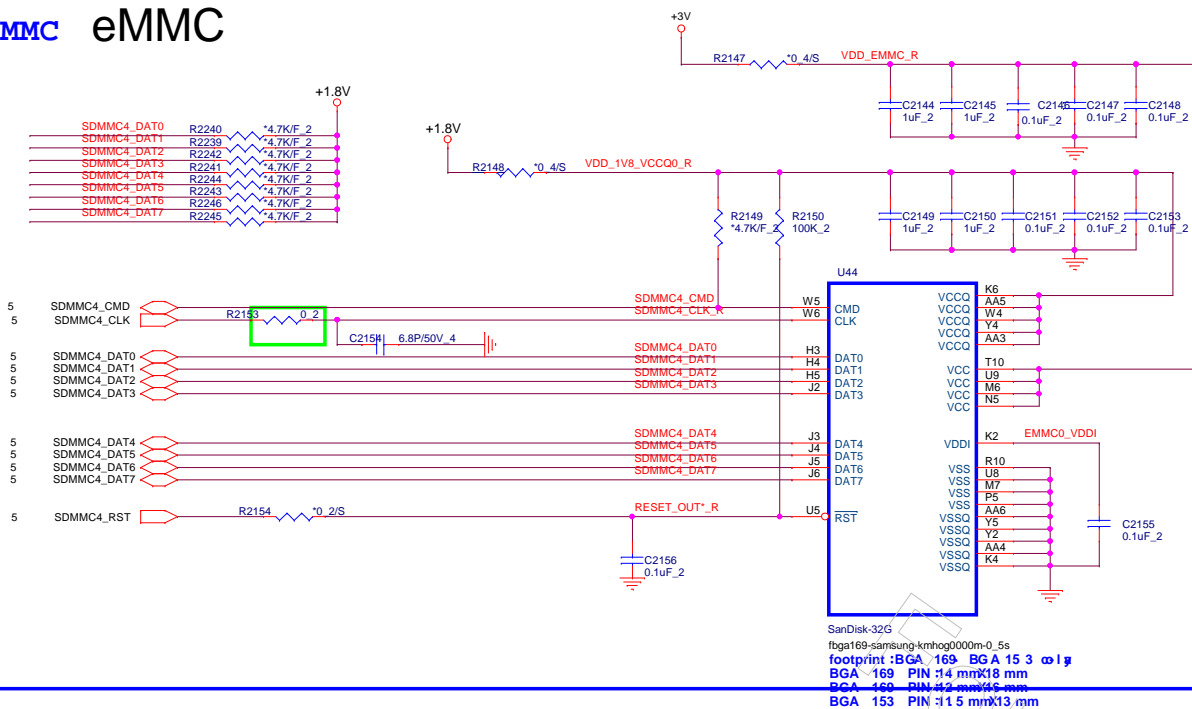


### 14" Mèrt h KEYBOARD Con



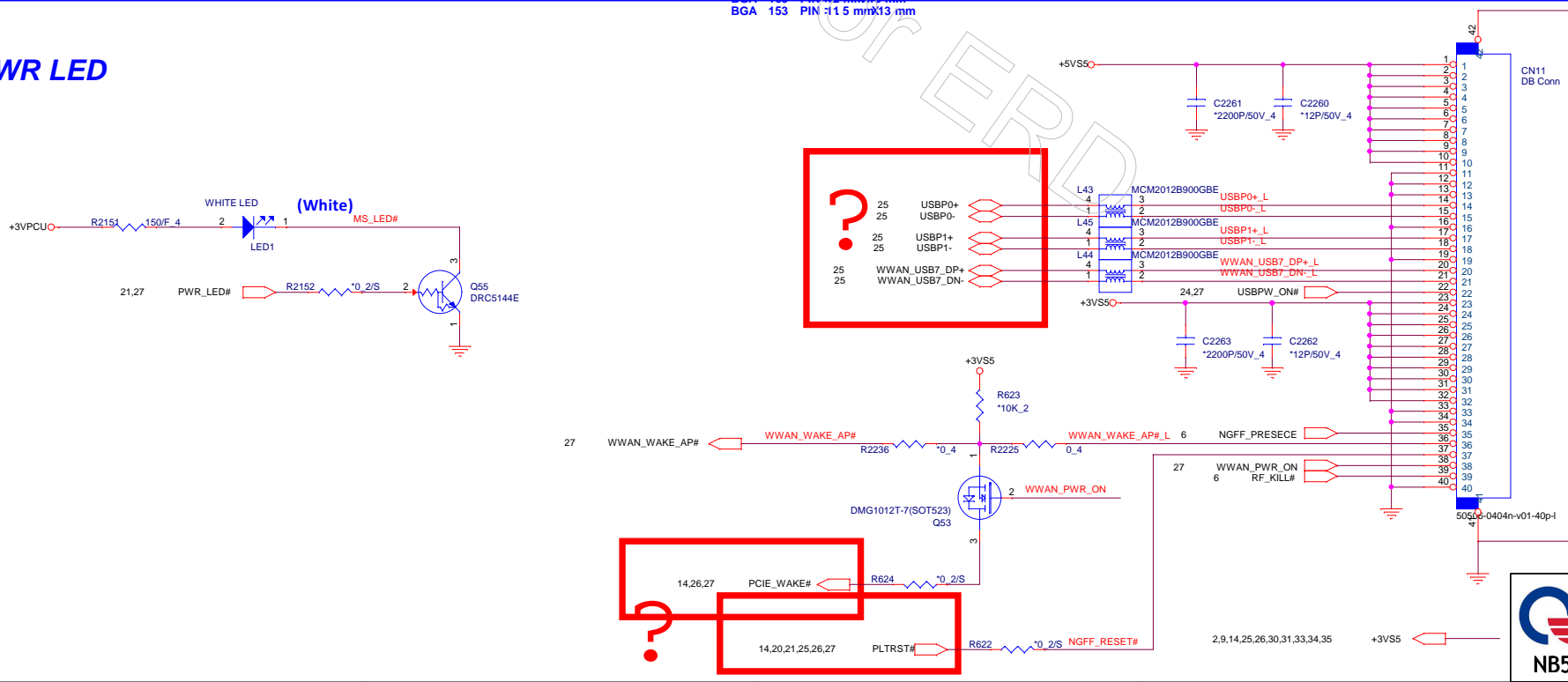
### 14" Mèrt h Touch Pad Connect



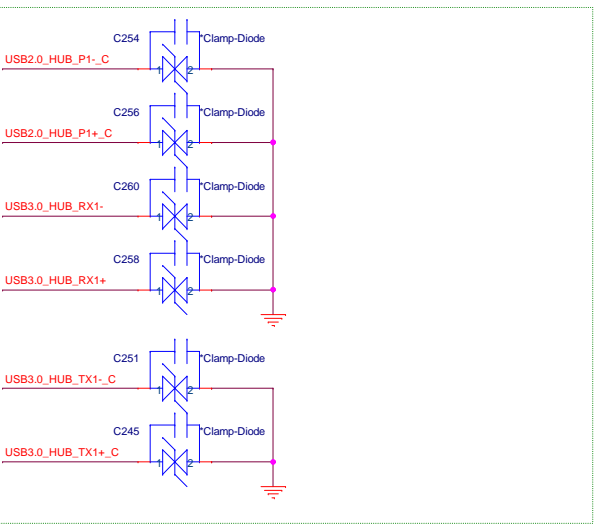


iNAND (eMMC) V4.51				
TOPBSQ	QBCON	Description	SIZE	Vender
AKE3SZ-TW01	AKE3SZ-TW02	IC FLASH(153P)H26M64103EMR(FBGA)	32G	Hynix
AKE5SZ0T506	AKE5SZ0T507	IC FLASH(153P)KLMBG4GEAC-B031(BGA)	32G	samaung
AKE3SFUT000	AKE3SFUT001	IC FLASH(153P)SDIN9DW4-32G(FBGA)	32G	SanDisk
AKE3TG-TW01	AKE3TG-TW02	IC FLASH(153P)H26M78103CCR(FBGA)	64G	Hynix
AKE3TZPT515	AKE3TZPT516	IC FLASH(153P)KLKMC68GEAC-B031(BGA)	64G	samaung
AKE3TFUT101	AKE3TFUT102	IC FLASH(153P)SDIN9DW4-64G(FBGA)	64G	SanDisk

**PWR LED**

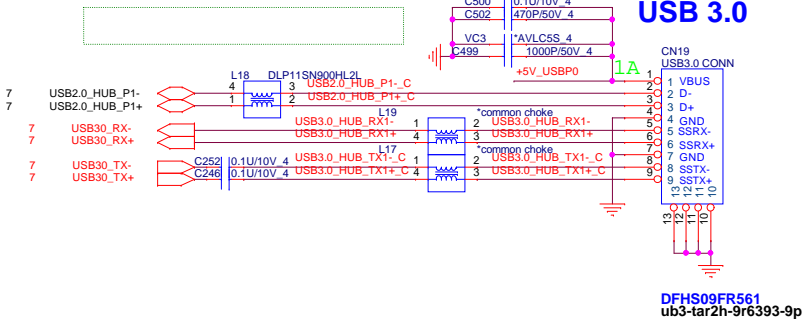


# USB 2.0/3.0 Combo



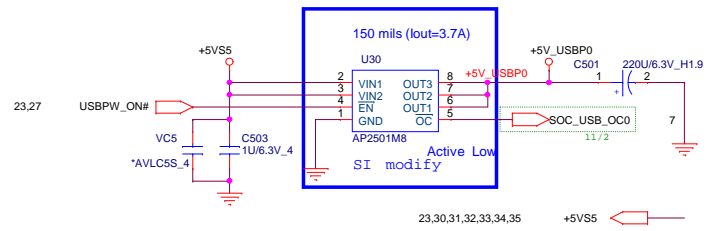
11/1 modify

2/10 delete R259 & R261 to mount L18 for EMI



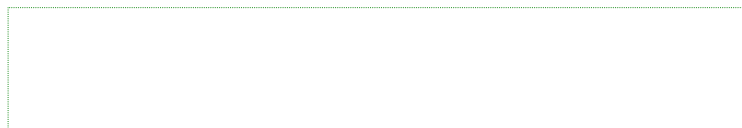
# USB 3.0

DFHS09FR561  
ub3-tar2h-9r6393-9p



2/6 shortpad

## Leap Motion 11/7 Delete Leap motion



## Fingerprint Conn 11/7 Delete Fingerprint CONN



## Touch screen

## Accelerometer Sensor

## Green CLK Circuitry

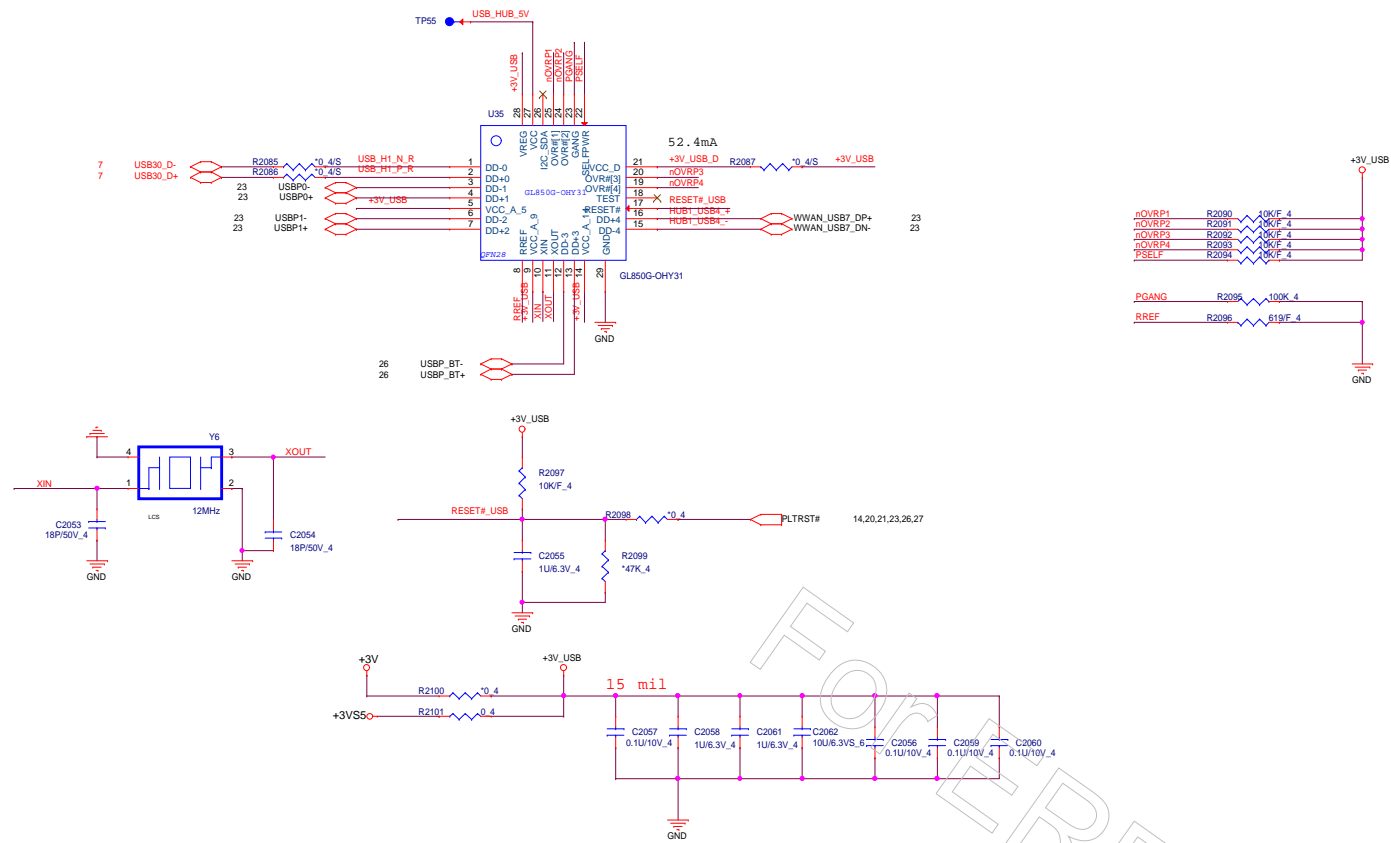
10/30 delete Green Clock



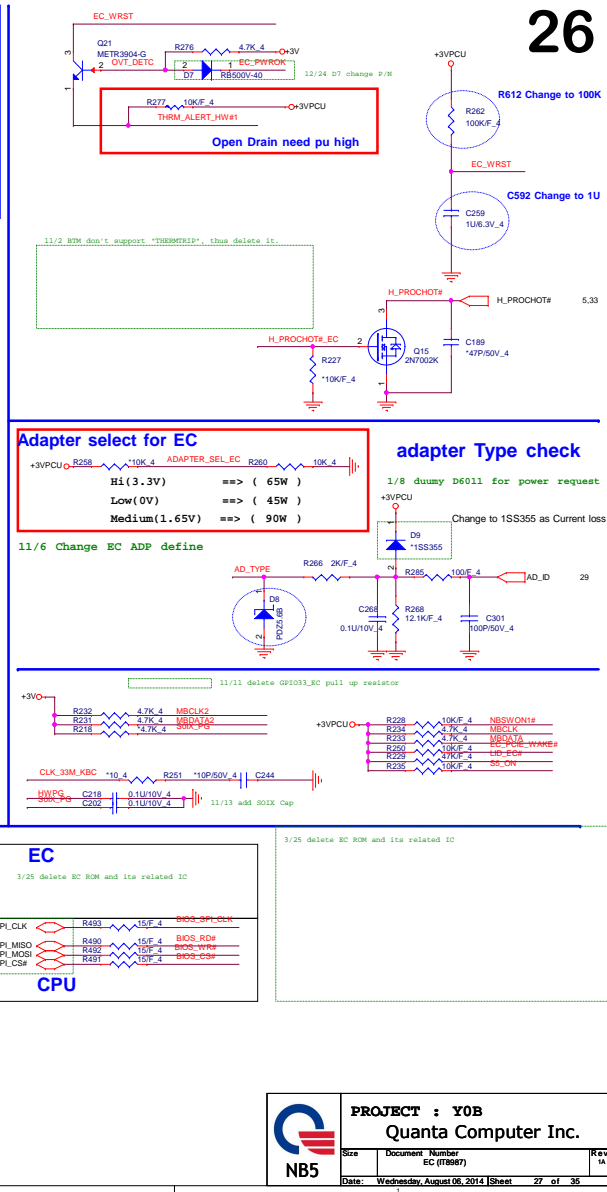
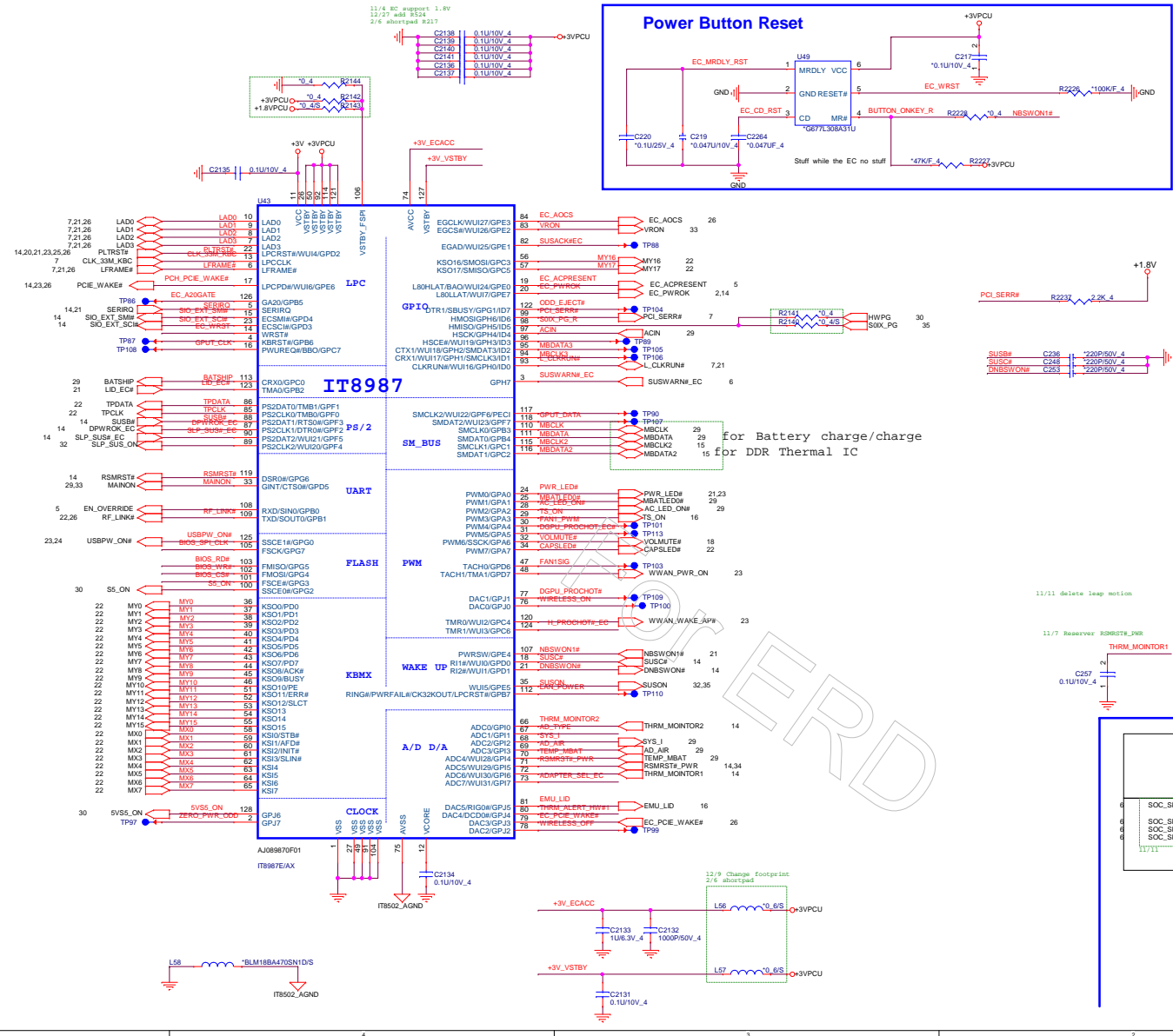
4,9,14,15,16,17,18,20,21,22,23,25,26,27,35  
16,17,18,35

+3V  
+5V

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	Quanta Computer Inc.		
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	USB3.0/GCLK/TS/FR		1A
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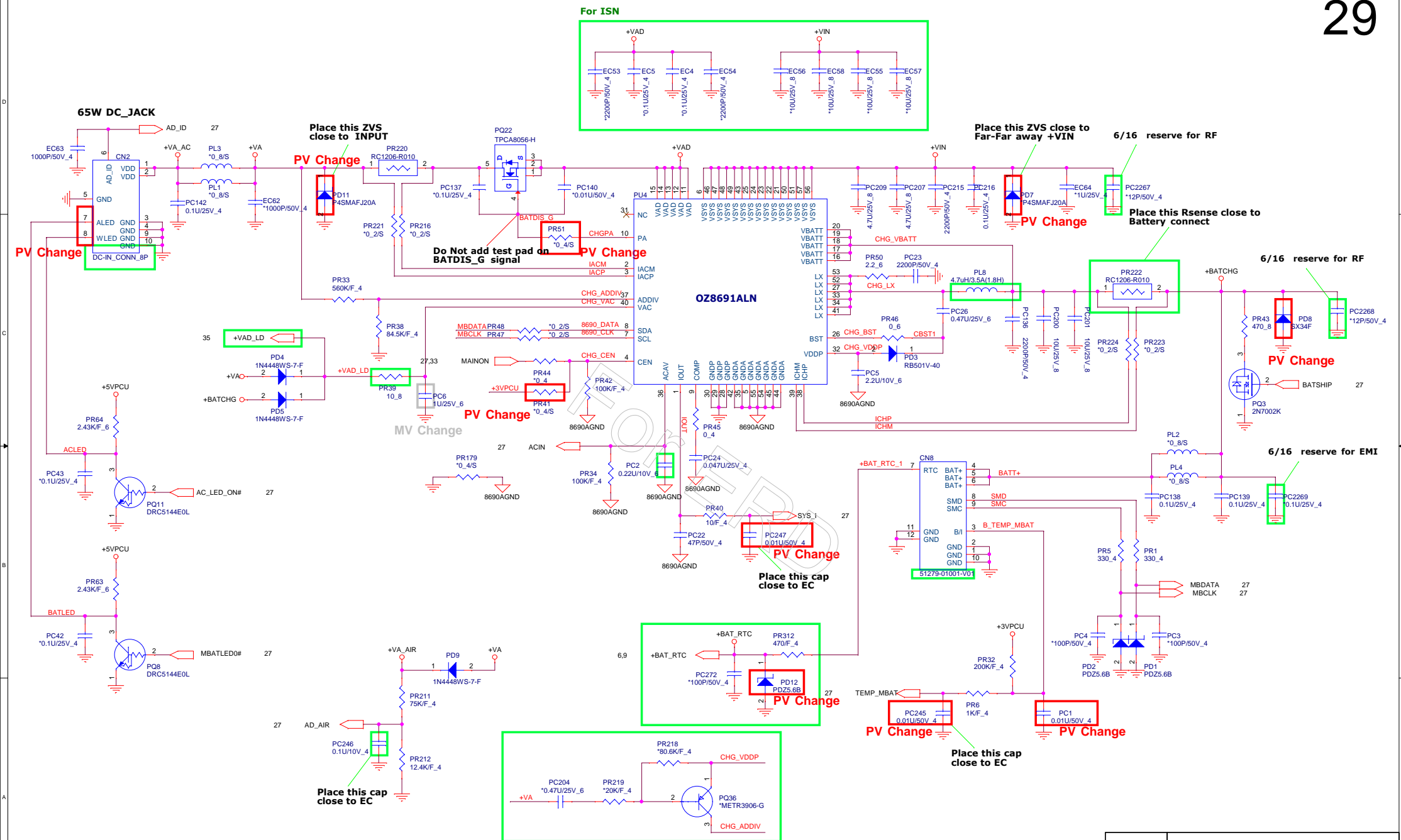


For ERD

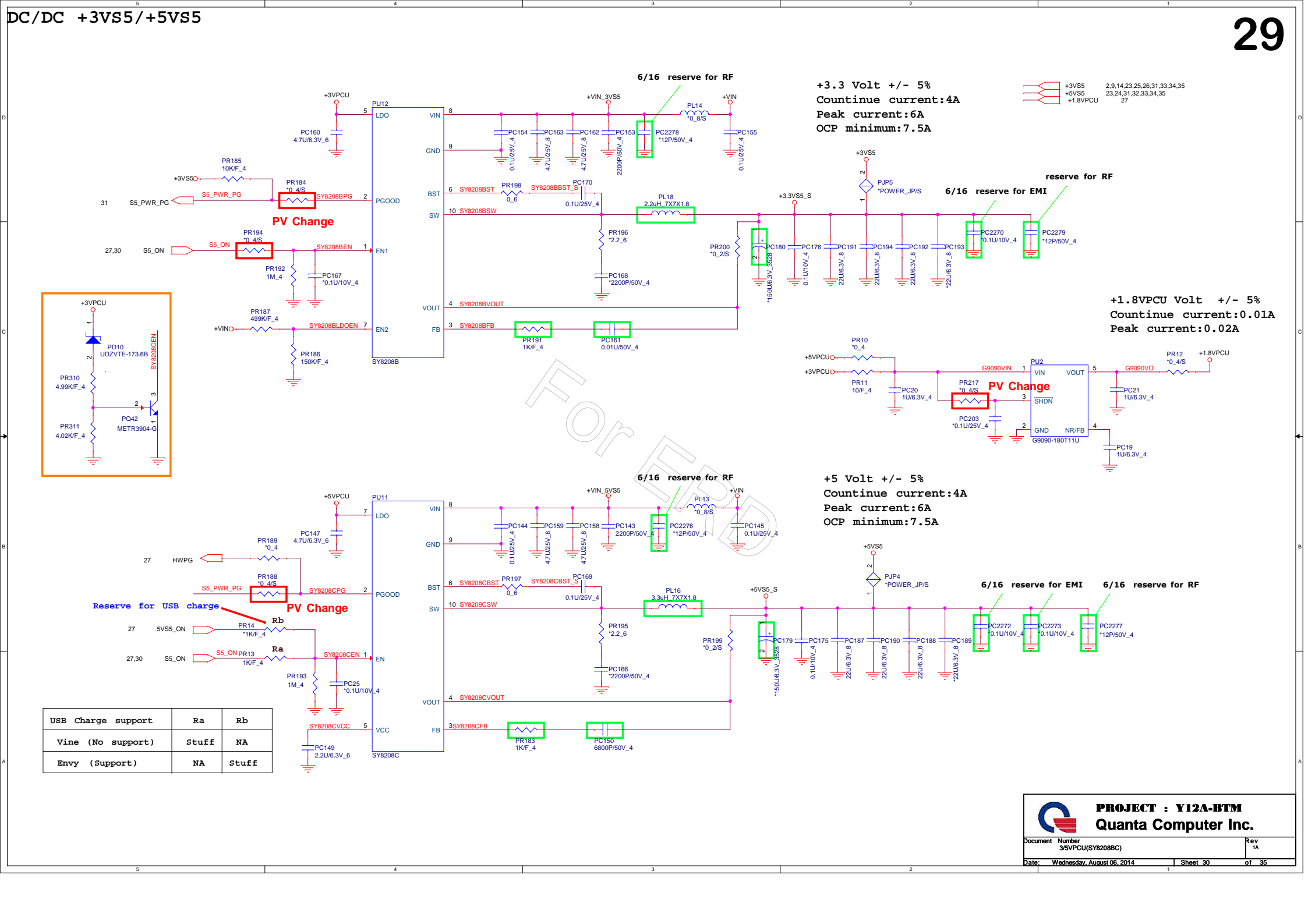


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**Quanta Computer Inc.**

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29

DC/DC +3VS5/+5VS5

**+3.3 Volt +/- 5%**  
Countinue current:4A  
Peak current:6A  
OCP minimum:7.5A

**+1.8VPCU Volt +/- 5%**  
Countinue current:0.01A  
Peak current:0.02A

**+5 Volt +/- 5%**  
Countinue current:4A  
Peak current:6A  
OCP minimum:7.5A

USB Charge support	Ra	Rb
Vine (No support)	Stuff	NA
Envy (Support)	NA	Stuff

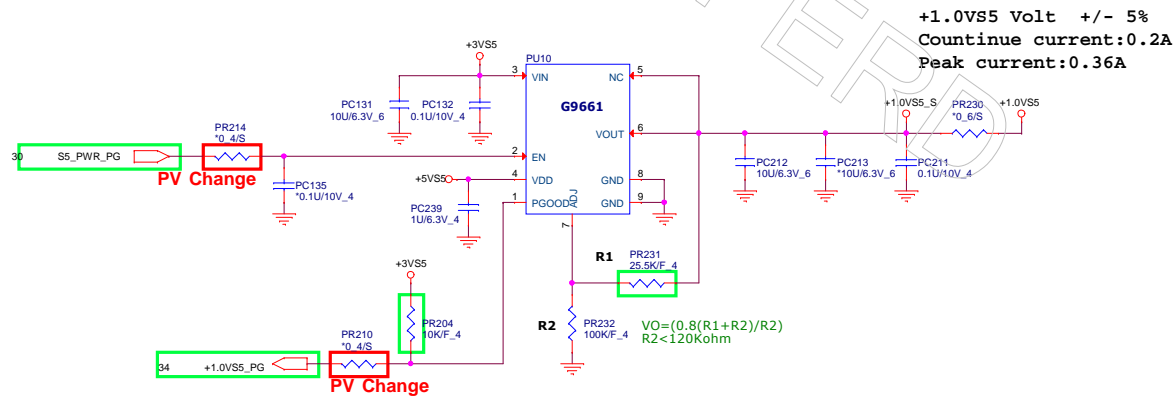
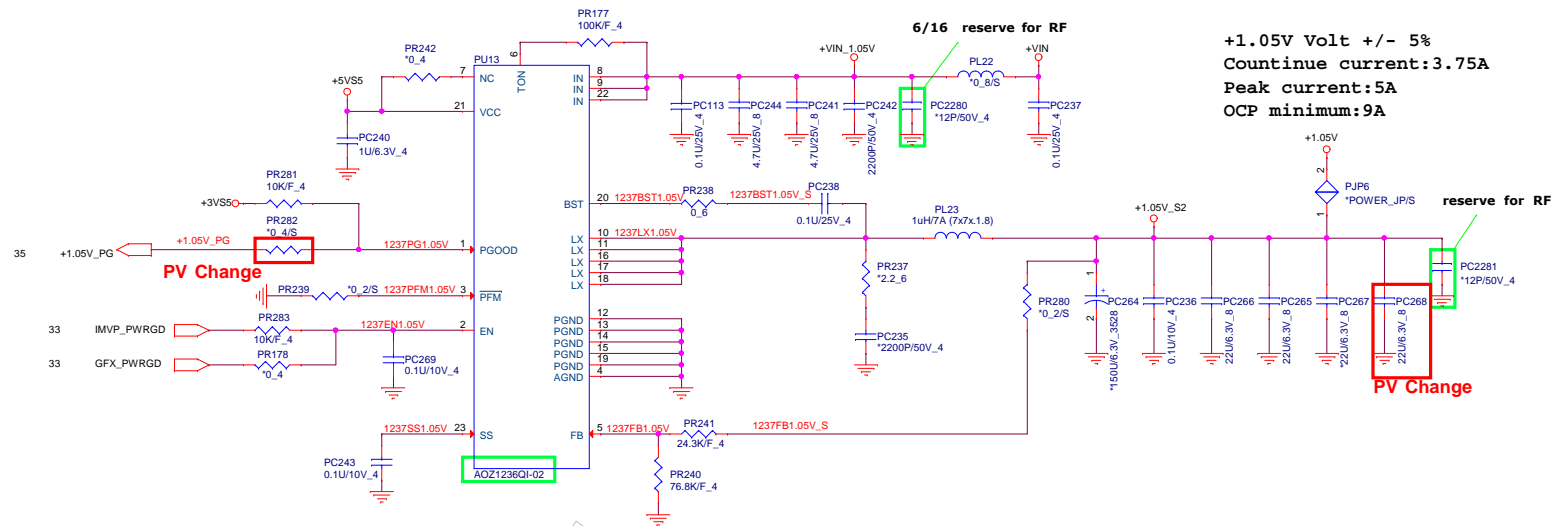
**PROJECT : Y12A-BTM**  
**Quanta Computer Inc.**

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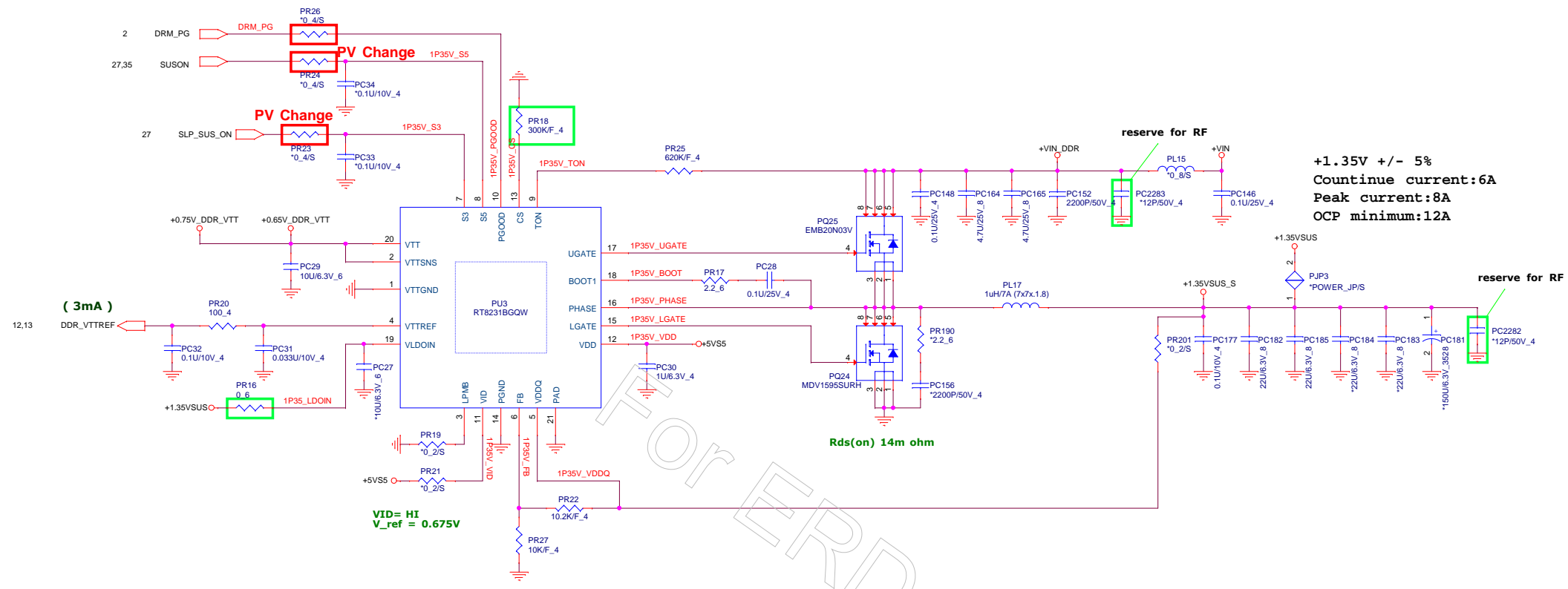
Document Number: 3/5VPCU(SY8208BC)
Rev 1A

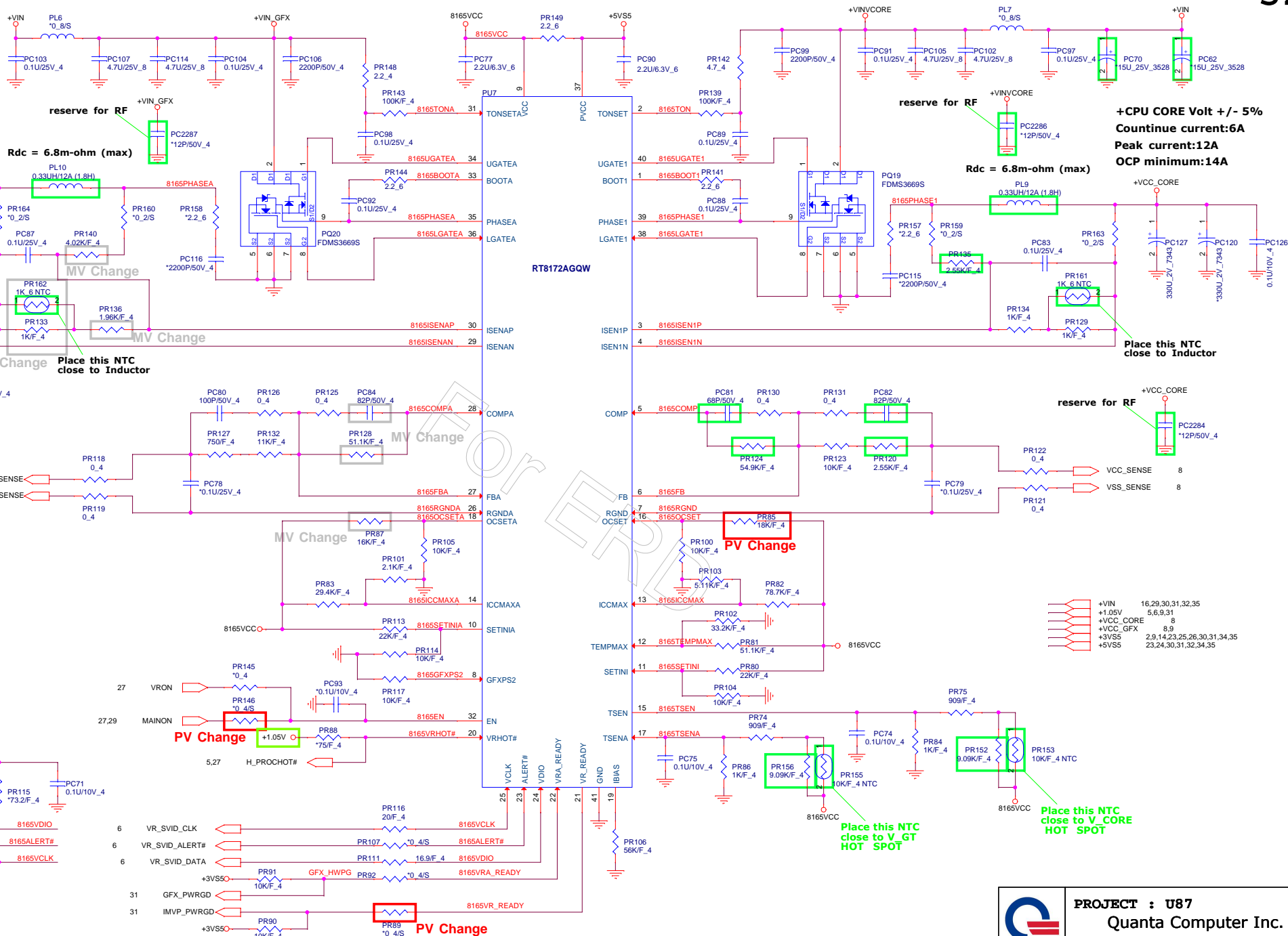
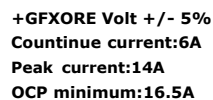
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+1.35VSUS	2,8,12,13,35
+VIN	16,29,30,31,33,35
+0.75V_DDR_VTT	12,13
+5VS5	23,24,30,31,33,34,35





+VIN	16,29,30,31,32,35
+1.05V	5,6,9,31
+VCC_CORE	8
+VCC_GFX	8,9
+3VS5	2,9,14,23,25,26,30,31,34,35
+5VS5	23,24,30,31,32,34,35

Place this NTC  
close to V\_CORE  
HOT SPOT

6,7,9,14,35  
2,9,14,23,25,26,30,31,33,35  
23,24,30,31,32,33,35

+1.8VS5  
+3VS5  
+5VS5

