

# 1. Schematic Page Description :

## ZHS/BTM-origins Schematic Ver :

- |                                 |                                 |
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| 01 -- Sch Page description      | 21 -- WIFI/BT(NGFF)/Video Codec |
| 02 -- Block Diagram             | 22 -- eMMC                      |
| 03 -- Valley 1/9 (DDRA)         | 23 -- TPM /LED                  |
| 04 -- Valley 2/9 (DDRB)         | 24 -- DB /Thermal sensor        |
| 05 -- Valley 3/9 (Display)      | 25 -- Audio Codec               |
| 06 -- Valley 4/9 (SD/PCIE/SATA) | 26 -- USB3/Charger/Hole         |
| 07 -- Valley 5/9 (SPI/GPIO/CLK) | 27 -- KB/TP/HW RST              |
| 08 -- Valley 6/9 (USB/LPC/I2C)  | 28 -- KBC                       |
| 09 -- Valley 7/9 (Power 1)      | 29 -- Charger (BQ24715RGRR)     |
| 10 -- Valley 8/9 (Power 2)      | 30 -- SYSTEM 5V/3V (MPS670/671) |
| 11 -- Valley 9/9 (GND)          | 31 -- Load Switch               |
| 12 -- BTM XDP & APS             | 32 -- DDR 1.35V(TPS51216)       |
| 13 -- DDR3L MEMORY DOWNx16 CHA  | 33 -- +1.05V/+1V(TPS54318)      |
| 14 -- DDR3L MEMORY DOWNx16 CHB  | 34 -- +VCC_CORE(ISL95833)       |
| 15 -- Level Shifter (SOC_EC)    | 35 -- LDO-1 (G9661)             |
| 16 -- Level Shifter (SOC_DEV)   | 36 -- LDO-2 (G9661)             |
| 17 -- SDIO CardReader           | 37 -- Thermal protect           |
| 18 -- LCD/CCD/DMIC              | 38 -- Power Sequence            |
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| 20 -- HDMI                      | 40 -- BTM PWR TREE              |
|                                 | 41 -- Change List               |

### I2C table

Function	Channel	Read	Write
Touch pad	I2C0	0x67	
Audio codec	I2C1	0x21	0x20
Light sensor	I2C4		

### SMBus table

Function	Channel	Address
Battery	SMB0	
Thermal	SMB2	0x4C

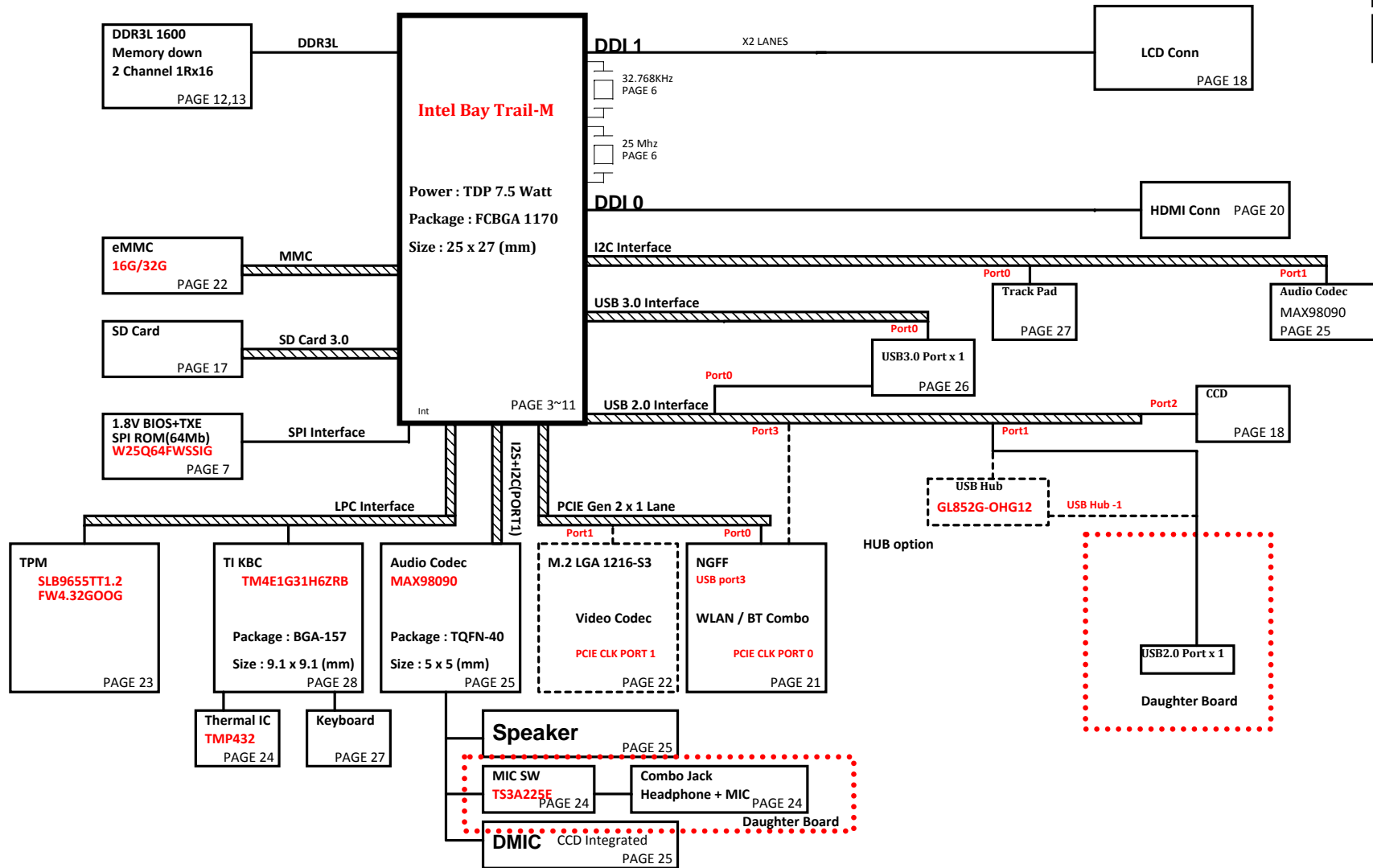
Function	Channel
PP3300_DSW	0x42
PP5000	0x41
PP1350	0x49
PP1050_PCH	0x43
PP1000_PCH	0x47



# ZHR/BTM-Origins

## Intel Bay Trail-M Platform Block Diagram

SKU A DC N2820  
AJSR1SGUT03 --CPU(1170P)N2820 2.13G SR1SG(FCBGA)STNBSQ



<b>BQ24715</b> Battery Charger	<b>TPS51216</b> PP1350
<b>TPS51225</b> PP3300_DSW/PP5000	<b>NB671GQ-Z</b> PP1000_PCH
<b>ISL95833HRTZ-T</b> +VCC_CORE/+VCC_GFX	<b>Thermal Protection Discharger</b>

BOM value option:  
SX@ => SOiX  
NSX@=>none SOiX  
HUB@=>USB HUB  
3G@ => LTE  
GD@ =>Google debug

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PROJECT : ZHS

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	<b>Block Diagram</b>	1A
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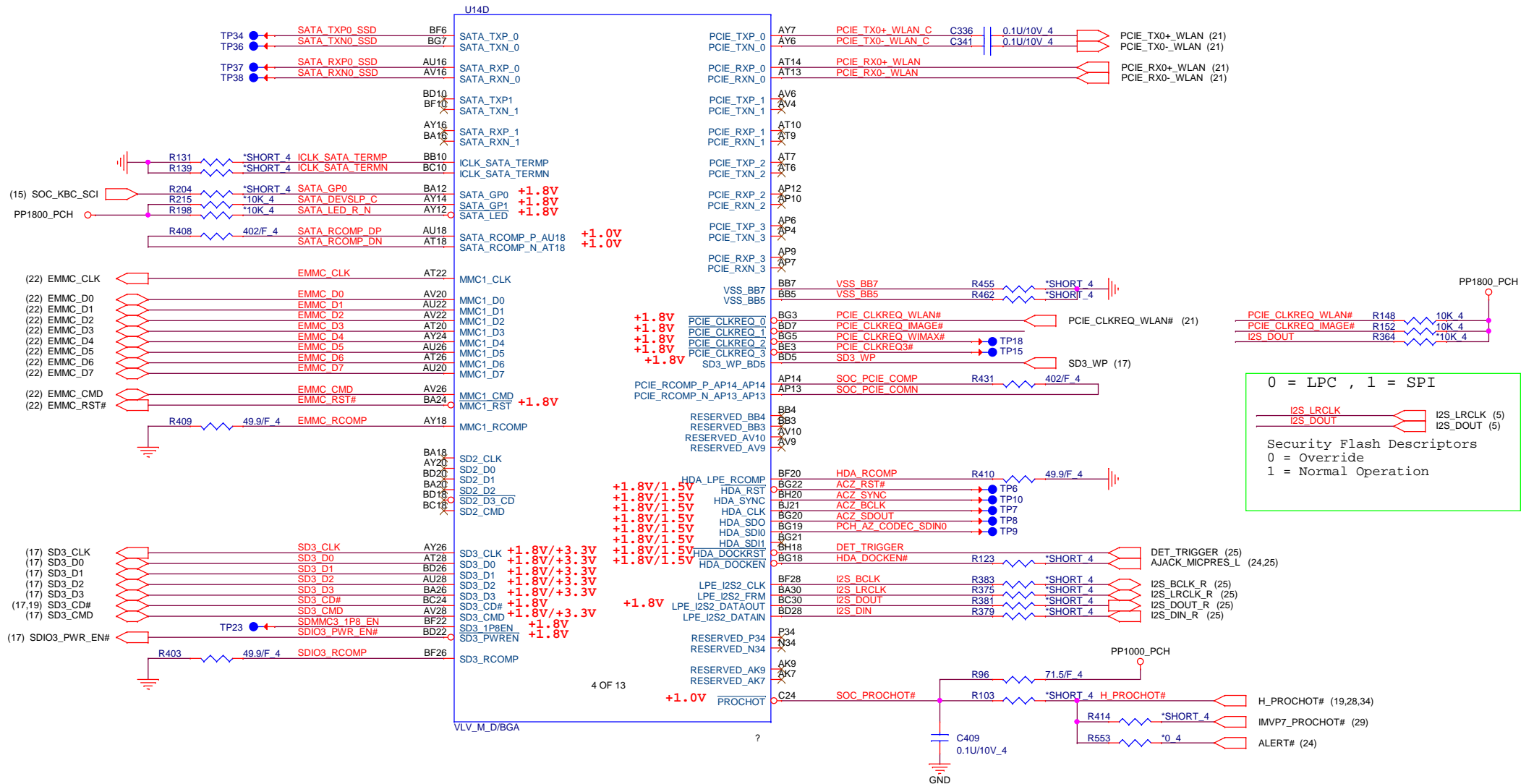












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Size	Document Number	Rev
	<b>Valley 4/9 (SD/PCIe/SATA)</b>	1A
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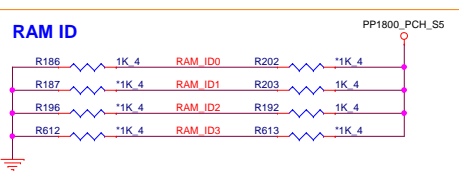
## 5/19 Update RAM ID for ZHQ and ZHS use.

Vender	RAM_ID	Q P/N	Mfr. PN	Freq.	Size	Pice
Samsang	0x000	AKD5PGST514	K4B4G1646Q-HYK0	1600MHz	4GB	8
Hynix	0x001	AKD5JGETW04	H5TC4G63AFR-PBA	1600MHz	4GB	8
Micron	0x010	AKD5DGSSTL07	MT41K128M16JT-125M:K	1600MHz	2GB	8
Hynix	0x011	AKD5PGSTW03	H5TC4G63MFR-PBA	1600MHz	2GB	4
Hynix	0x100	AKD5PGSTW13	H5TC4G63CFR-PBA	1600MHz	2GB	4
Hynix	0x101	AKD5JGETW04	H5TC4G63AFR-PBA	1600MHz	2GB	4
Hynix	0x110	AKD5PGSTW13	H5TC4G63CFR-PBA	1600MHz	4GB	8
Hynix	0x111	AKD5PGSTW03	H5TC4G63MFR-PBA	1600MHz	4GB	8

C2 SKU1

C2 SKU2

## RAM ID



PP1800\_PCH\_S5

R426 10K 4 LTE\_DISABLE#

PORT 1 USB CONN  
PORT 2 LTE  
PORT 3 NA  
PORT 4 NA

MB USB3.0  
HUB1  
CCD  
BT

(26) USBP0+  
(26) USBP0-  
(22) USBP1+  
(22) USBP1-  
(18) USBP2+  
(18) USBP2-  
(21) USBP3+  
(21) USBP3-

USB\_DP0  
USB\_DN0  
USB\_DP1  
USB\_DN1  
USB\_DP2  
USB\_DN2  
USB\_DP3  
USB\_DN3

M16  
K16  
J14  
G14  
K12  
J12  
K10  
H10

USB\_DP0  
USB\_DN0  
USB\_DP1  
USB\_DN1  
USB\_DP2  
USB\_DN2  
USB\_DP3  
USB\_DN3

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1  
ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10  
D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1  
ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

USB\_OC\_00  
USB\_OC\_11  
USB\_OC\_00  
USB\_OC\_11

B20  
C20  
B20  
C20

+1.8V\_S5  
+1.8V\_S5  
+1.8V\_S5  
+1.8V\_S5

USB\_RCOMP  
USB\_PLL\_MON  
USB\_RCOMP  
USB\_PLL\_MON

D6  
C7  
M13  
M13

USB\_HSIC0\_DATA  
USB\_HSIC0\_STROBE  
USB\_HSIC1\_DATA  
USB\_HSIC1\_STROBE

B4  
B5  
E2  
E3

USB\_HSIC0\_DATA  
USB\_HSIC0\_STROBE  
USB\_HSIC1\_DATA  
USB\_HSIC1\_STROBE

A7  
A7

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

(15,26) USB\_OC0#  
PP1800\_PCH\_S5

R437  
R425

1K/F 4  
1K/F 4

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

(15,24) USB\_OC1#  
PP1800\_PCH\_S5

R97  
R189

10K 4  
10K 4

USB\_OC0#  
USB\_OC1#

C20  
B20

+1.8V\_S5  
+1.8V\_S5

USB\_RCOMP  
USB\_PLL\_MON

D6  
C7

USB\_HSIC0\_DATA  
USB\_HSIC0\_STROBE

B4  
B5

USB\_HSIC1\_DATA  
USB\_HSIC1\_STROBE

E2  
E3

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

A7  
A7

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

USB\_HSIC\_RCOMP  
USB\_HSIC\_RCOMP

R185  
R415

45.3/F 4  
49.9/F 4

(23) PCLK\_TPM  
PP1800\_PCH

R437  
R425

1K/F 4  
1K/F 4

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

(28) CLK\_PCI\_EC  
(28) LPC\_CLKRUN\_L

R437  
R425

1K/F 4  
1K/F 4

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ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_1

D10  
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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

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ICLK\_USB\_TERM\_1

D10  
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D10  
F10

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D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

(15) SOC\_SERIRQ  
PP1800\_PCH

R437  
R425

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1K/F 4

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D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
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D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0  
ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

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ICLK\_USB\_TERM\_1

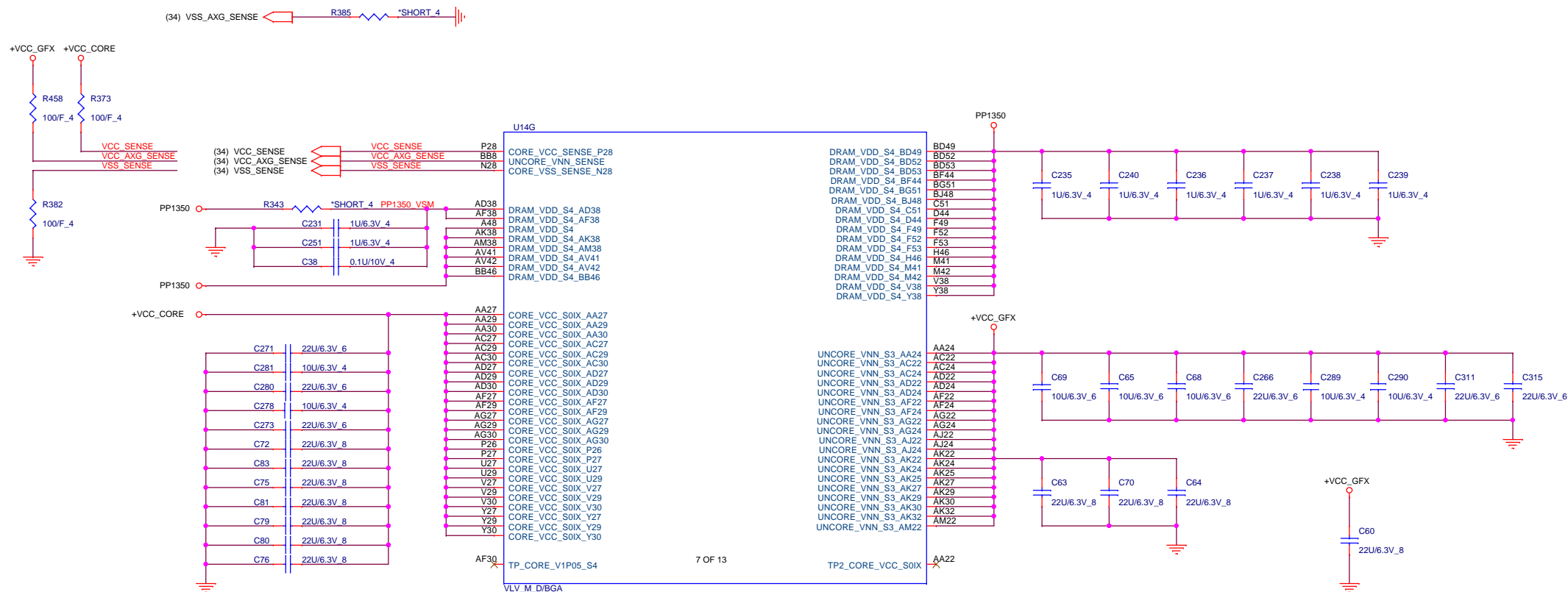
D10  
F10

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ICLK\_USB\_TERM\_1

D10  
F10

ICLK\_USB\_TERM\_0

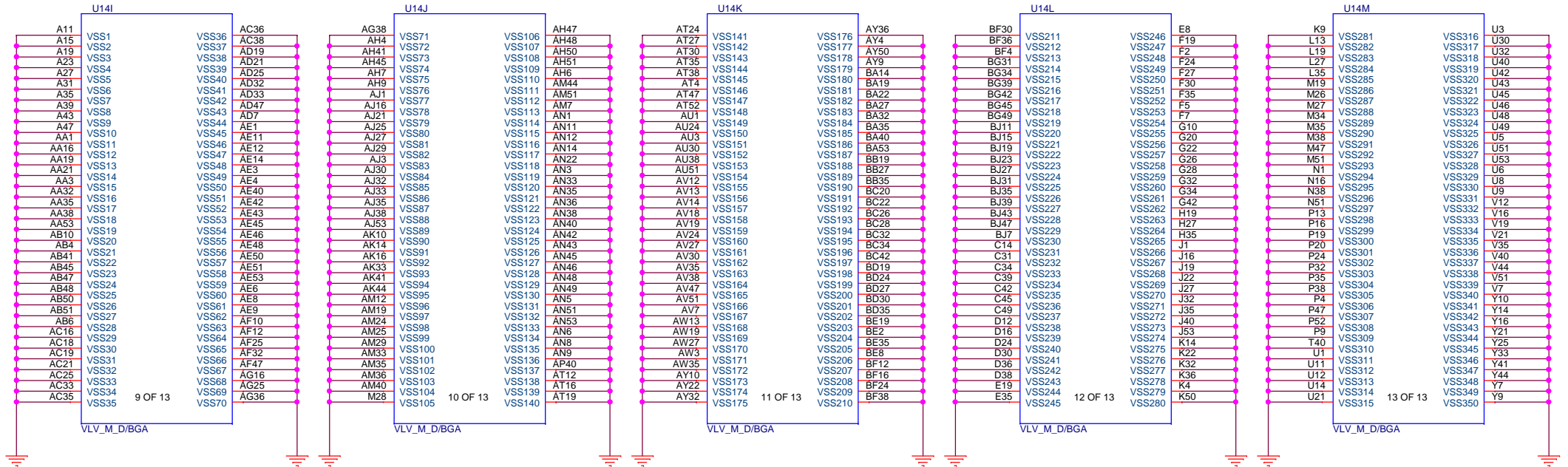














## 12

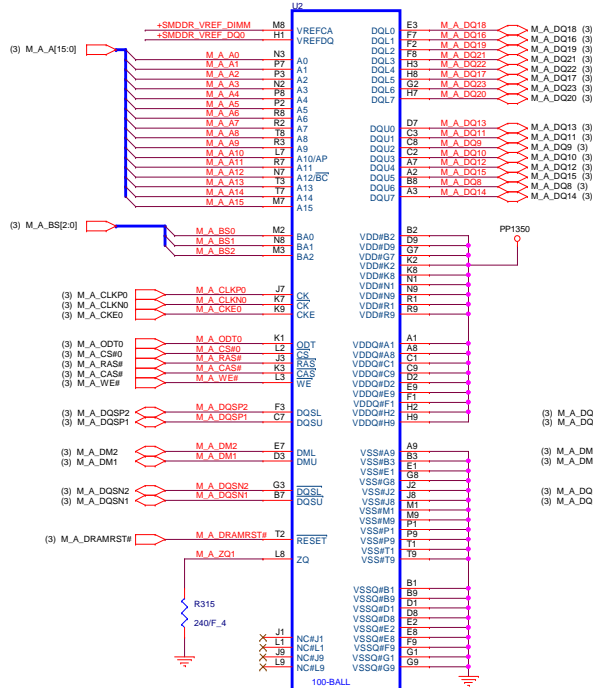


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	<b>CPU XDP / APS</b>	1A
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## BYTE2\_16-23

## BYTE1\_8-15

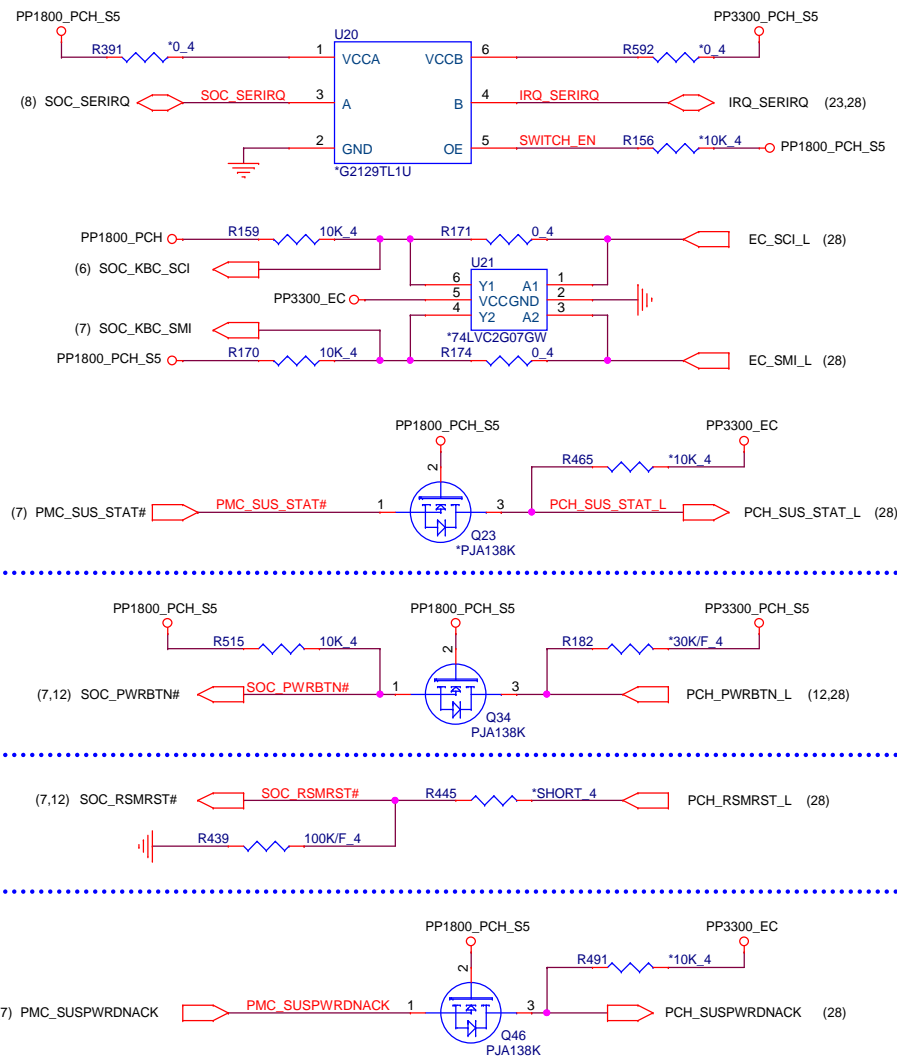




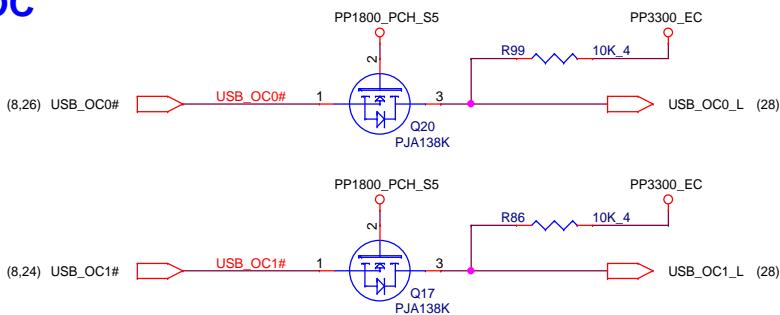




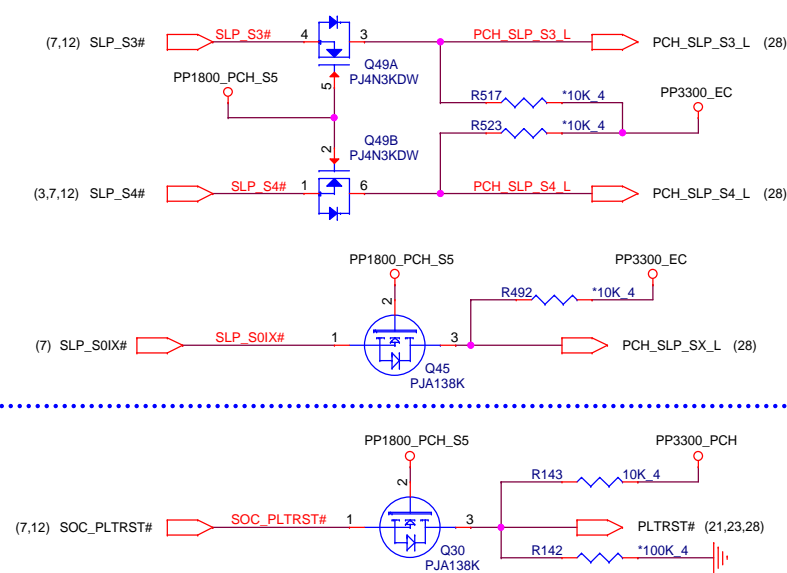
# PWRON SEQUENCE



# USB OC

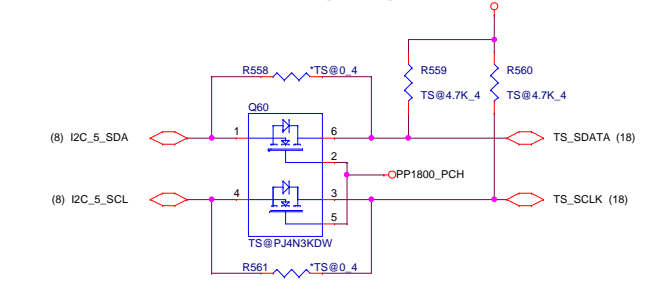


# PWRON SEQUENCE

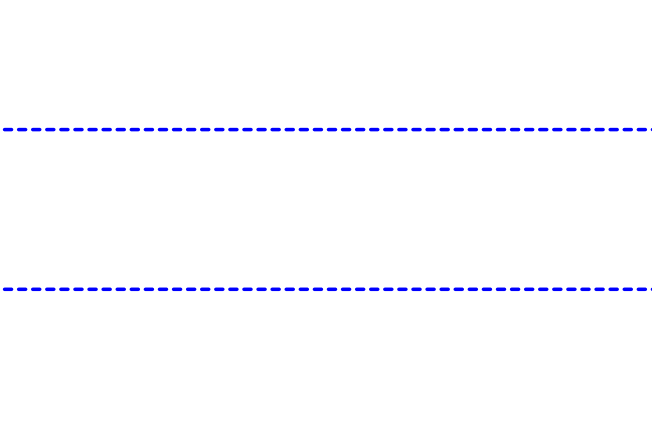




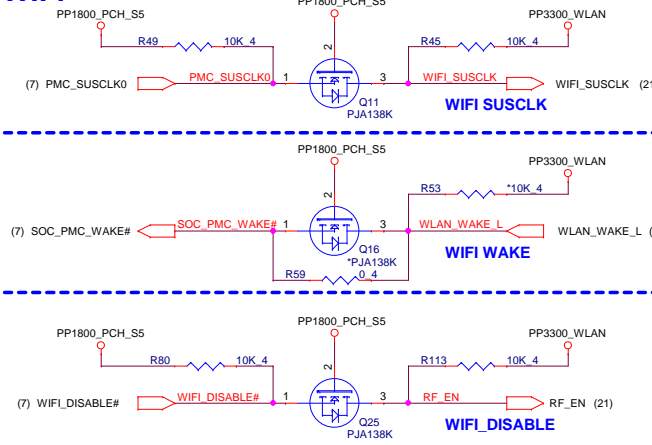
# Touch Panel level shift(TPS)



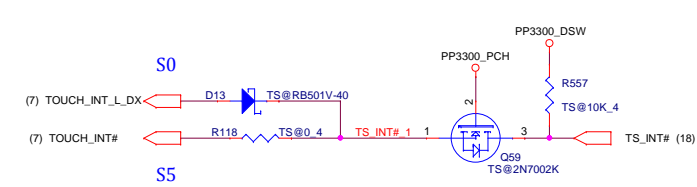
# LTE



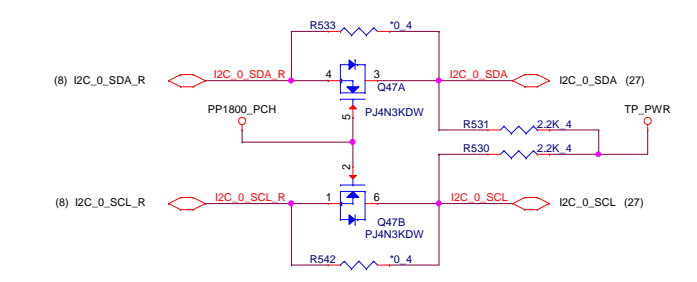
# WIFI



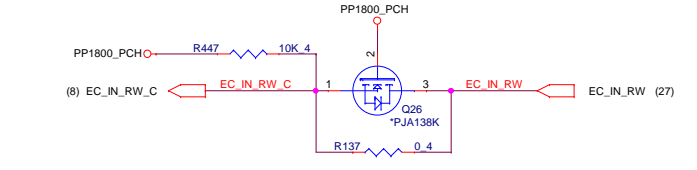
# Touch Screen(TPS)



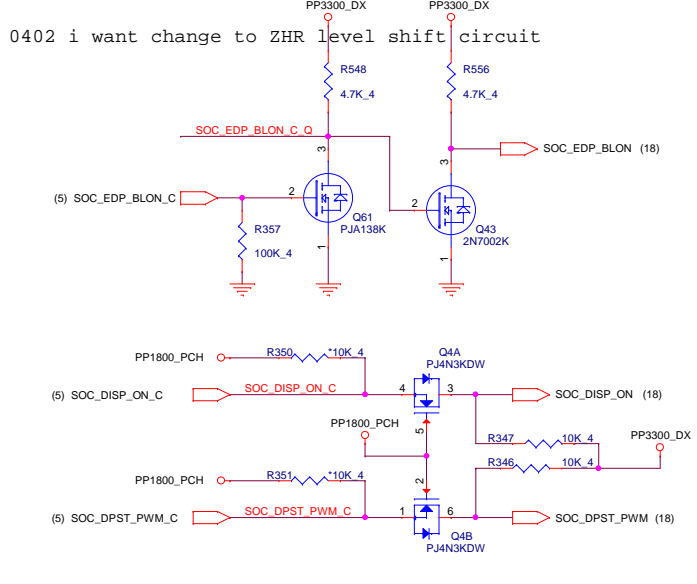
# Track Pad



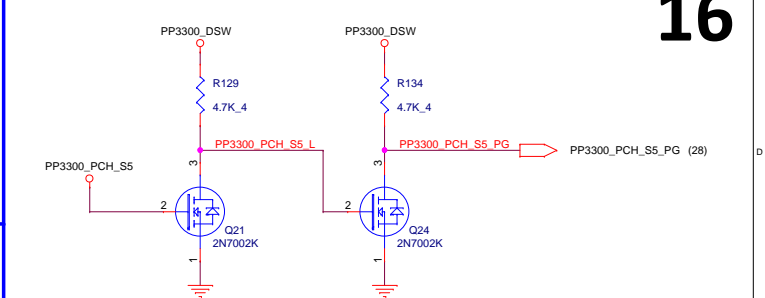
# HW RESET



# eDP control pin

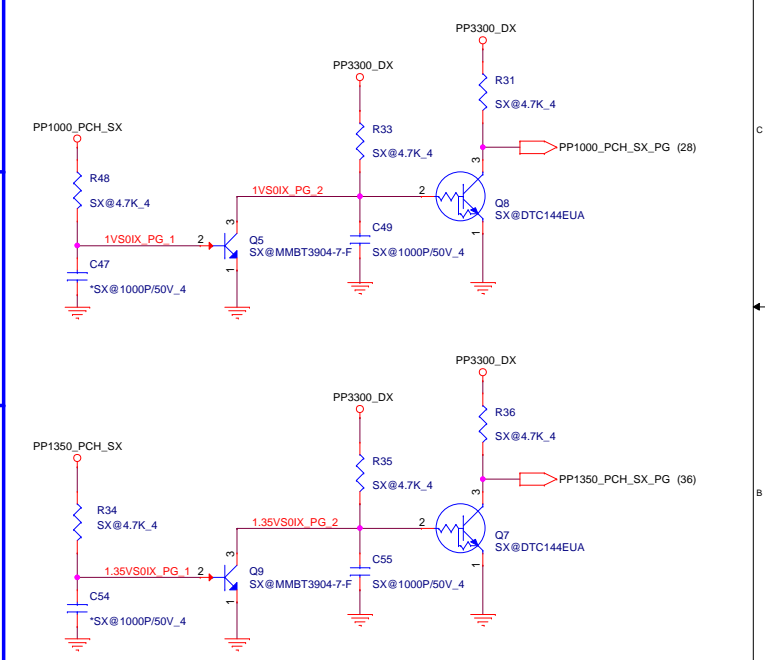


# S5 Power Good(+3V\_S5)

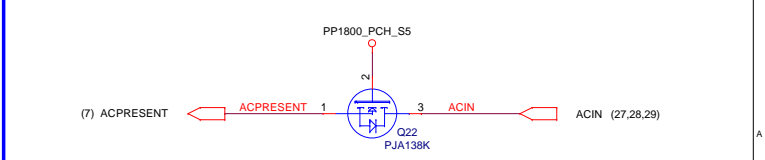


# S0iX Power Good

for proto type only, can remove at MP stage if S0ix is not needed



# AC Detect



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PROJECT : ZHS

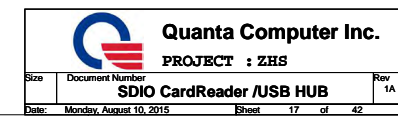
Size	Document Number	Rev
	<b>Level Shifter (SOC_DEV)</b>	1A
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**This is full size SD card  
(push-push type)**

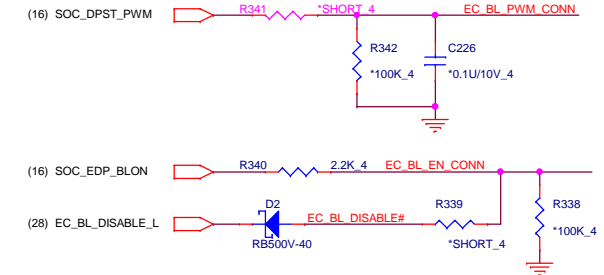


**17**

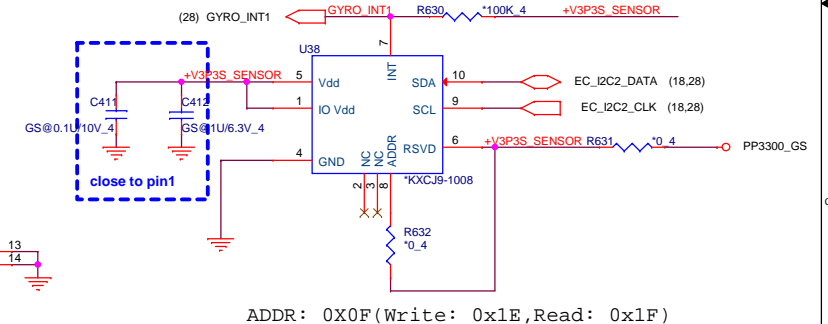




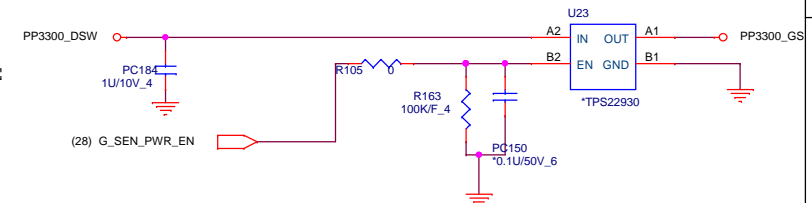
**18**



180P/50V\_4 EDP HPD\_CONN



ADDR: 0X0E



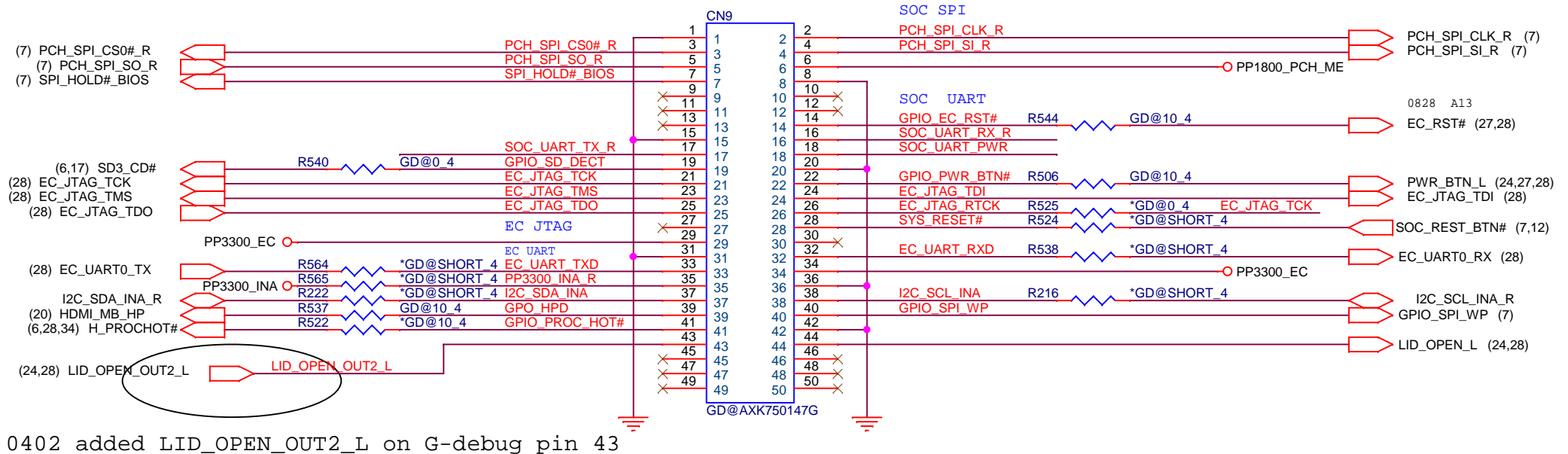


# GOOGLE Debug Port(MPC)

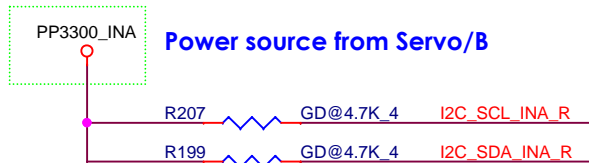
**50 pin BTB is MUST, don't use 42 pin**  
Socket part number AXK750147G

PIN7 OD	PIN39 OD	PIN49 OD
PIN14 OD	PIN41 OD	PIN50 OD
PIN19 OD	PIN43 OD	
PIN22 OD	PIN44 OD	
PIN28 OD	PIN45 OD	
PIN30 OD	PIN46 OD	
PIN37 OD	PIN47 OD	
PIN38 OD	PIN48 OD	

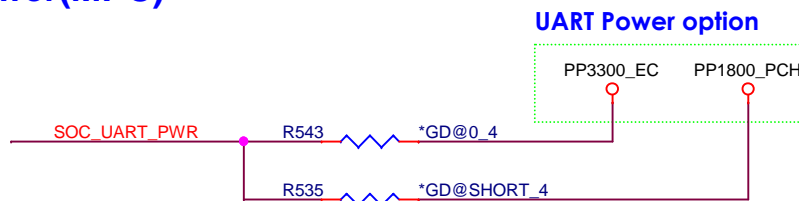
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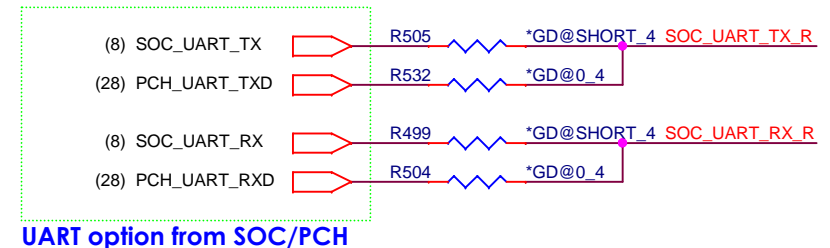
## Servo/B I2C Power(MPC)



## UART Power(MPC)

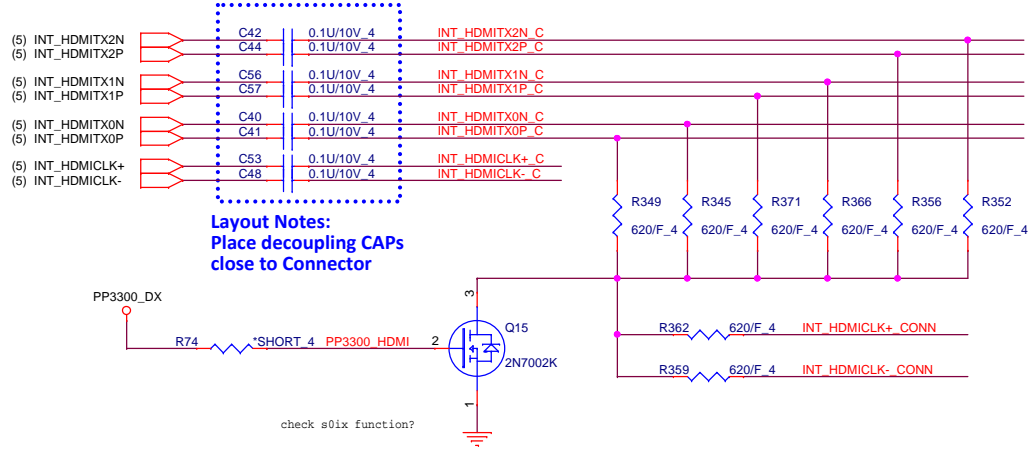


## UART(MPC)

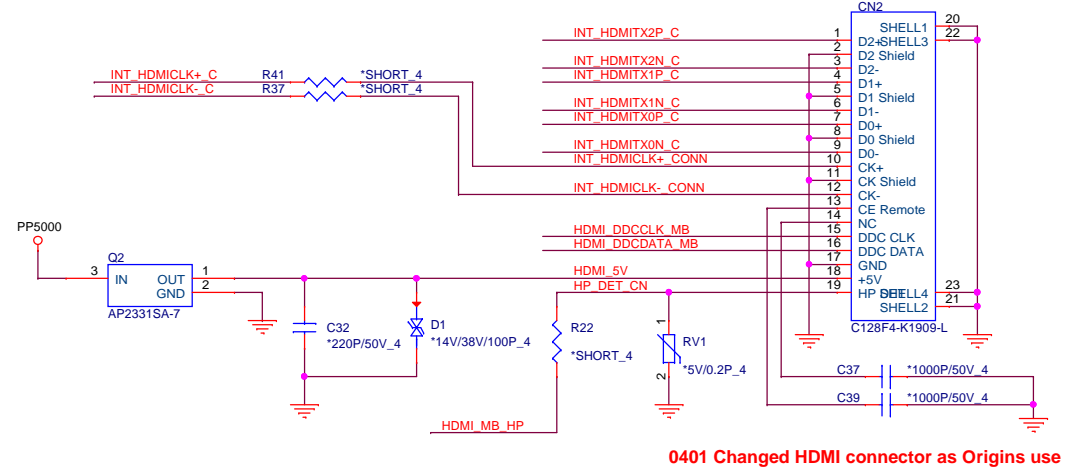




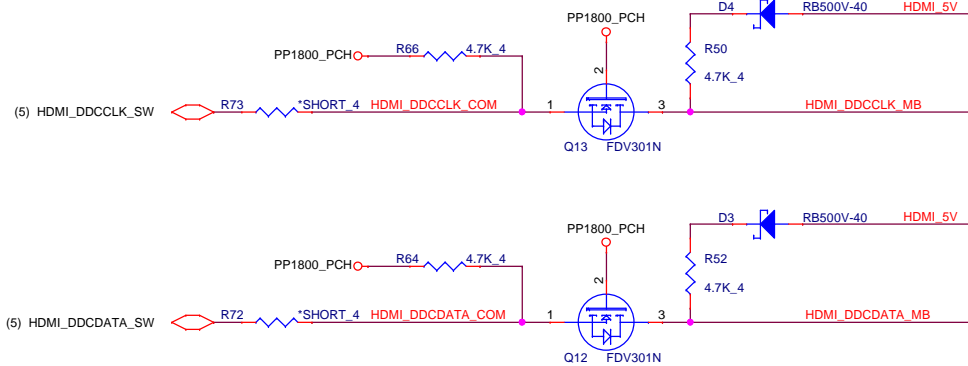
## HDMI Cost Reduced level shift (HDM)



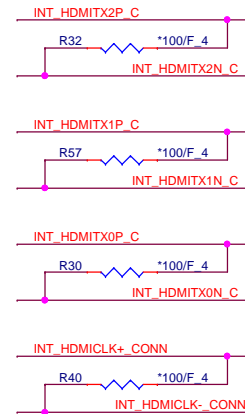
## HDMI connector (HDM)



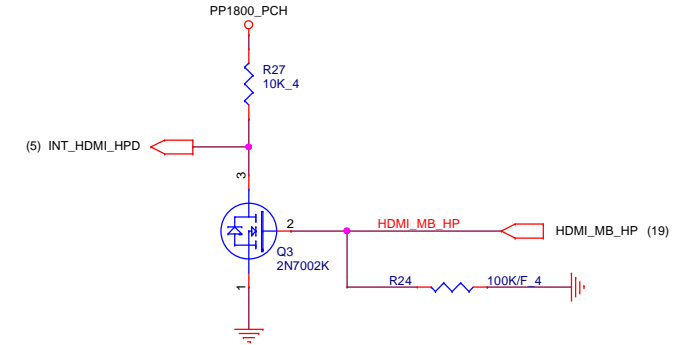
## HDMI DDC (HDM)



## EMI



## HDMI-detect (HDM)

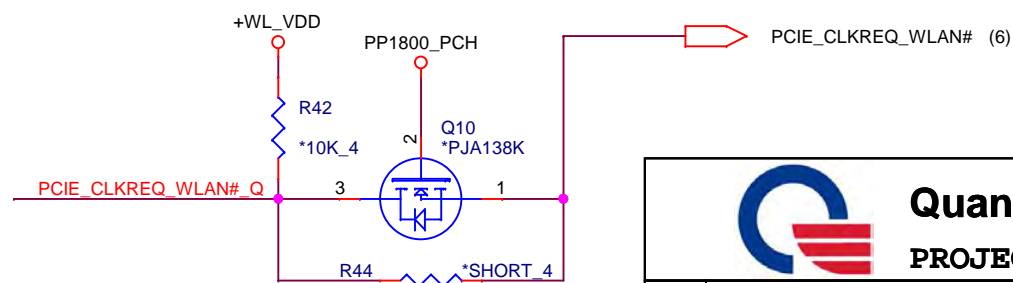


**Quanta Computer Inc.**  
PROJECT : ZHS

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	HDMI	1A
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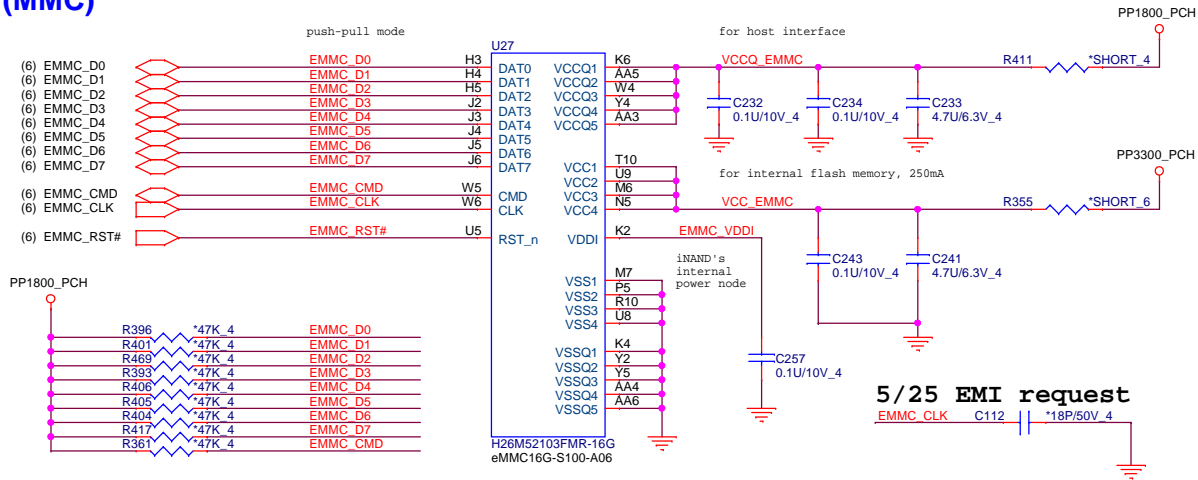


# 21



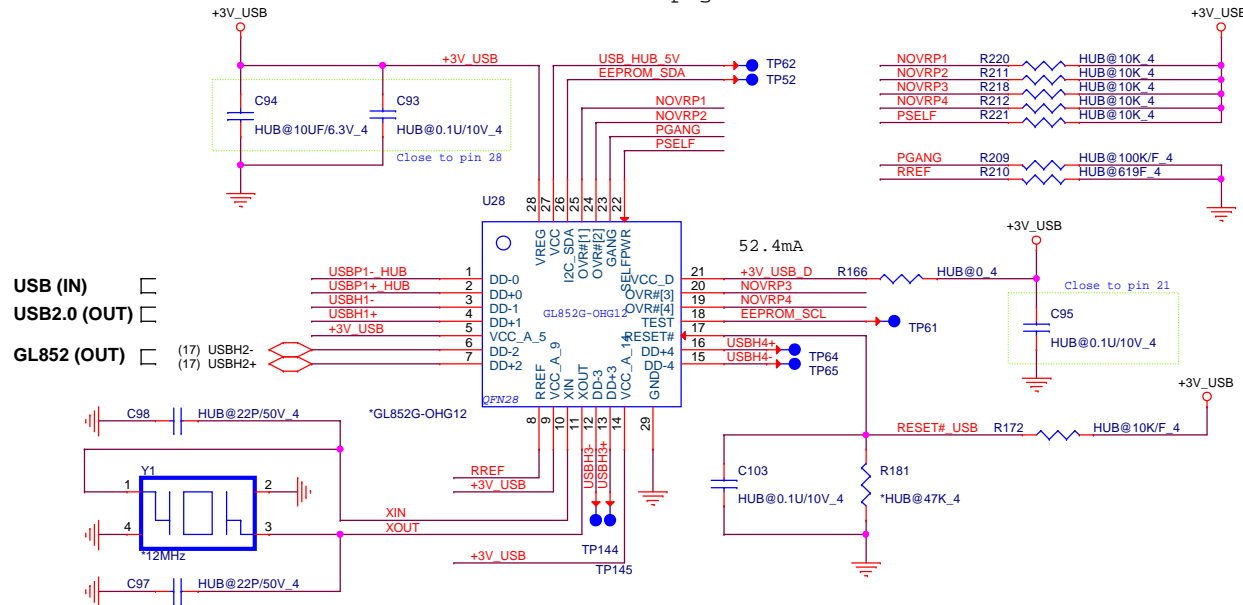


## EMMC (MMC)

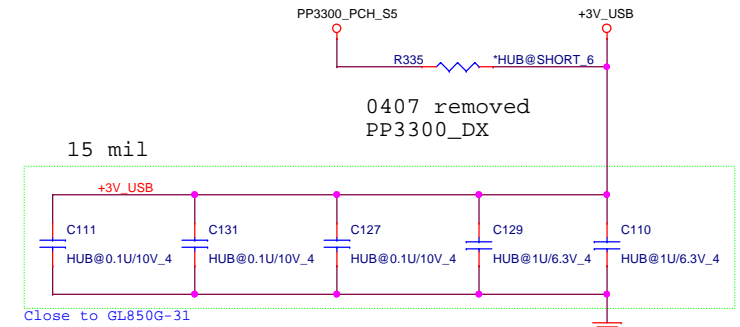


## USB HUB (HUB)

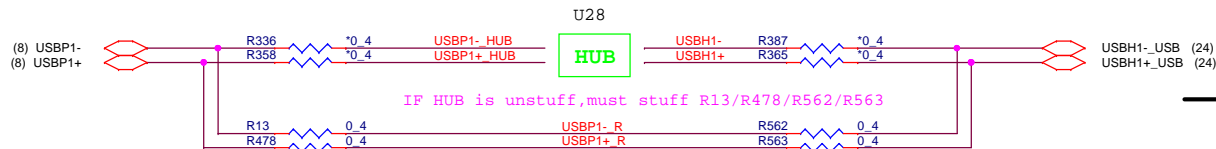
0616 moved USB HUB to page 22



## USB HUB power (HUB)



## USB option for GL852/USB2.0 (HUB)





## 23

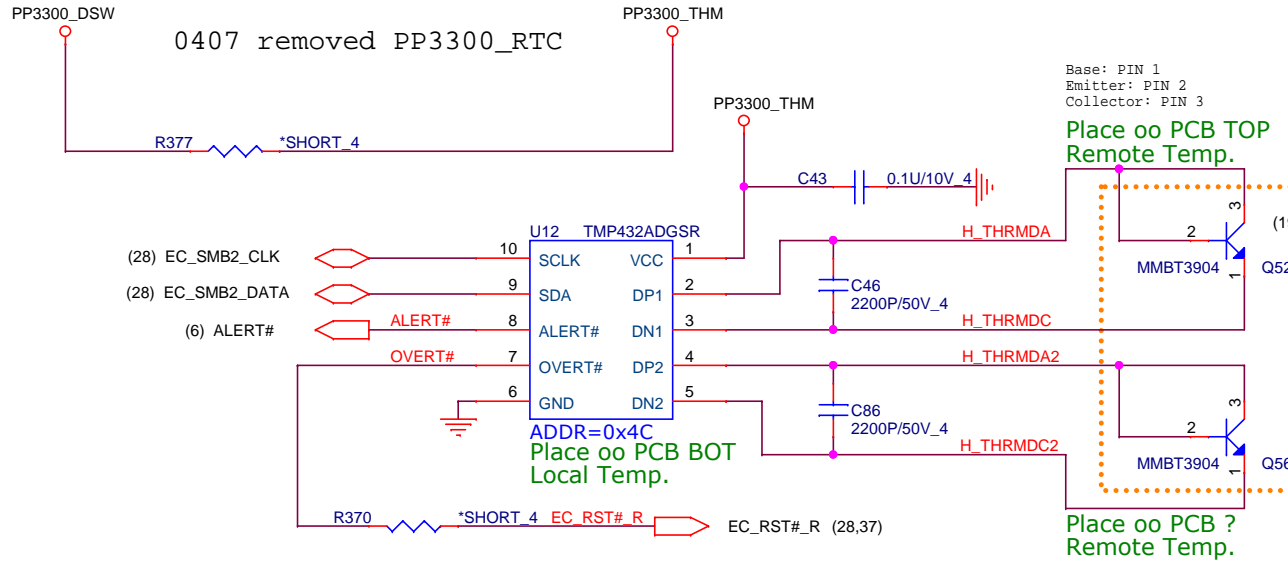
### 0402 Changed LED board connector as Origins use



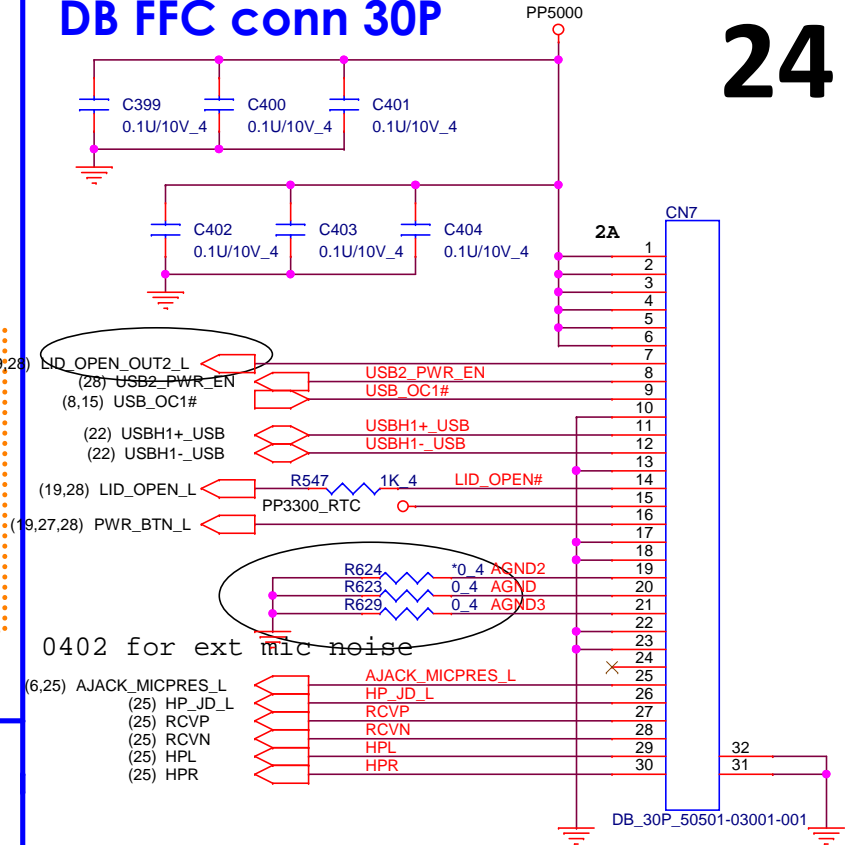
**PROJECT : ZHS**




# Thermal Sensor(THM)



# DB FFC conn 30P



# USB 2.0\_ILIM\_SEL (USB)

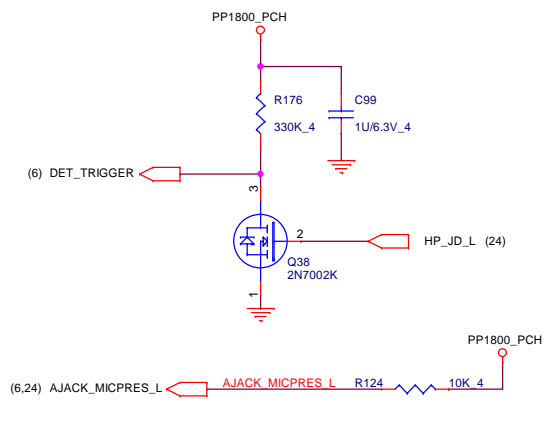
 <b>Quanta Computer Inc.</b> PROJECT : ZHS		
Size	Document Number	Rev
	<b>DB/Thermal sensor/LTE PWR</b>	1A
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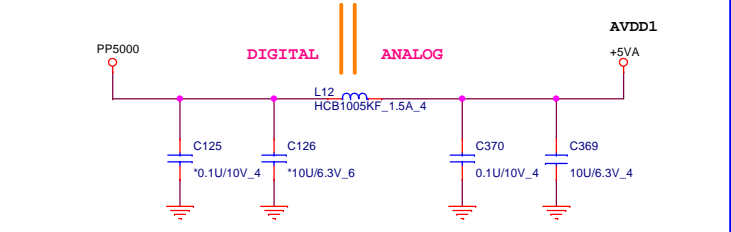
# AUDIO CODEC (ADO)

25

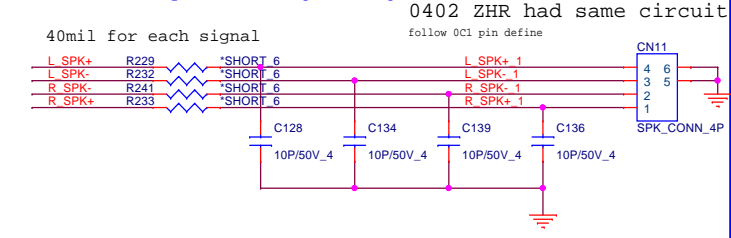
## SOC DET (ADO)



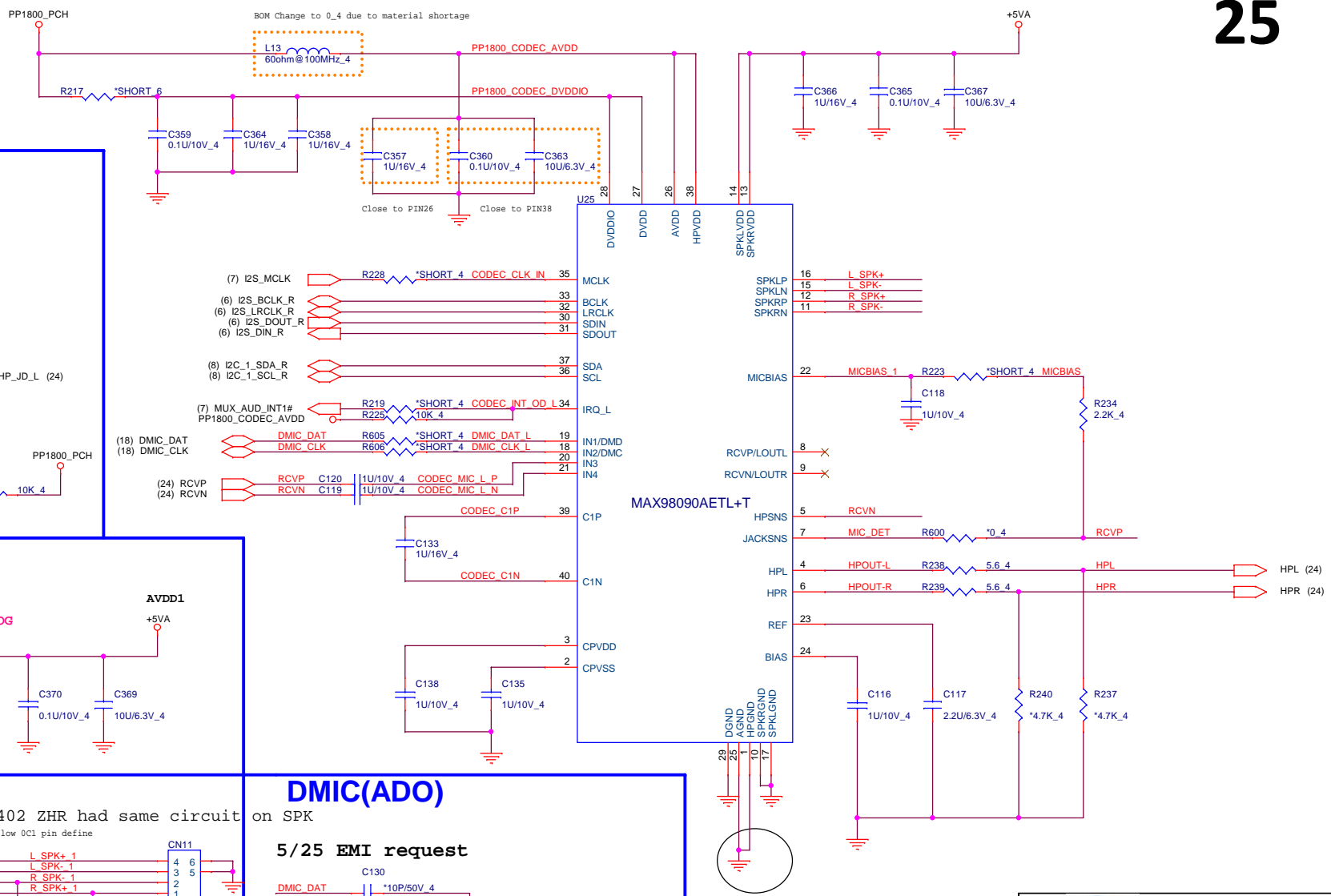
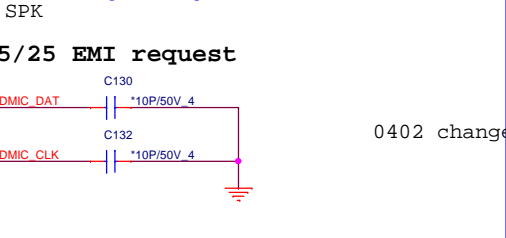
## Codec PWR 5V (ADO)



## Internal Speaker (ADO)

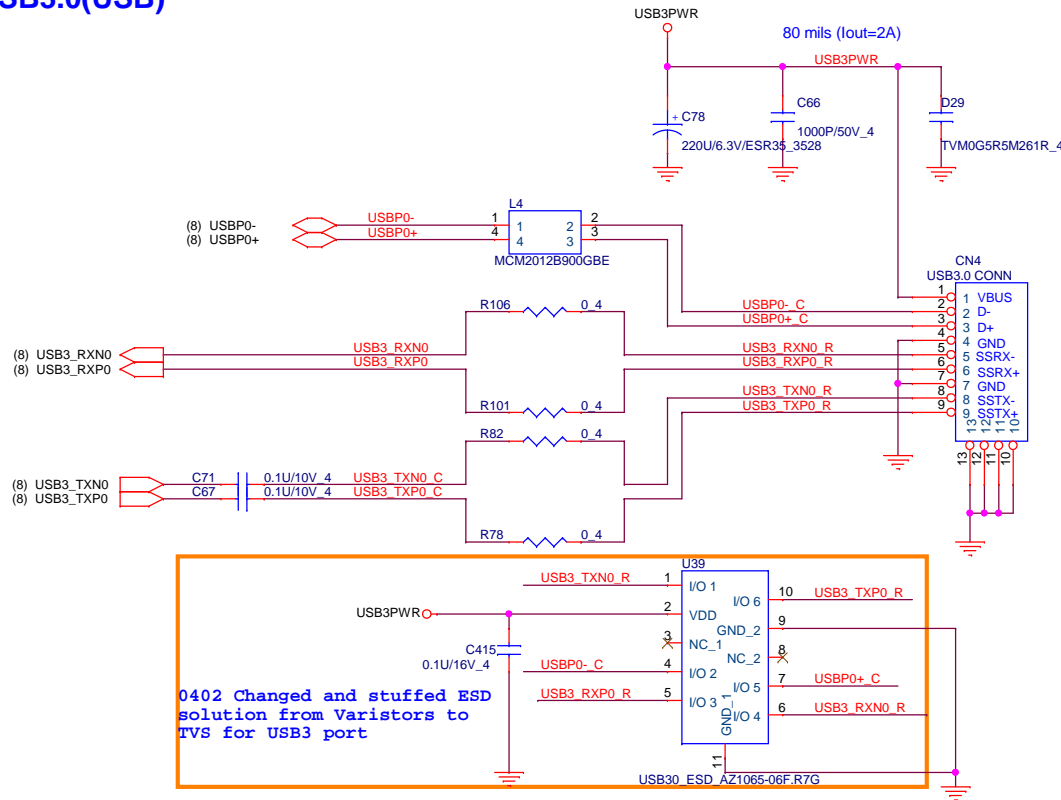


## DMIC(ADO)

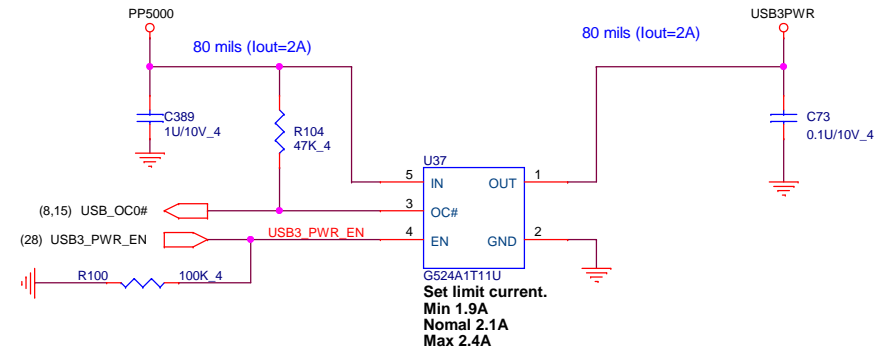




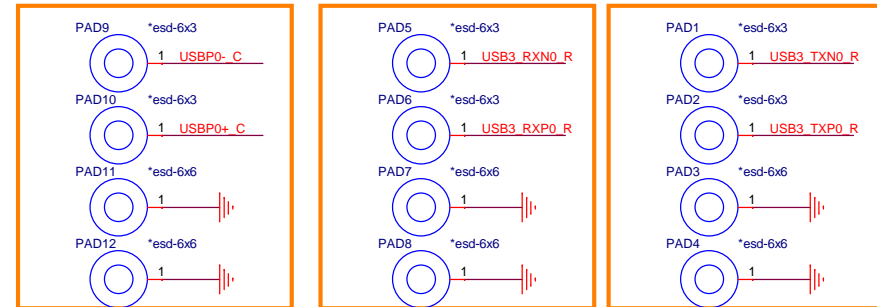
## USB3.0(USB)



## USB Switch

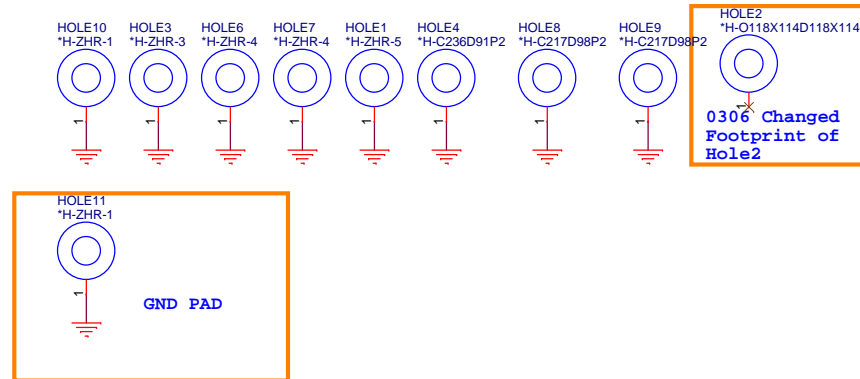
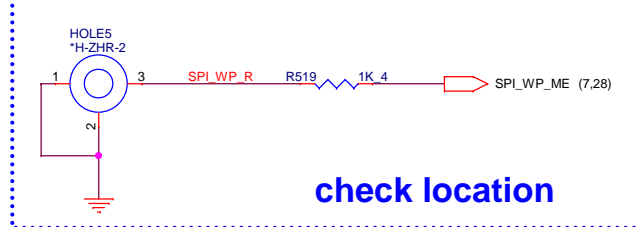


0804 Added PAD1-12  
as ESD protection



## HOLE(OTH)

## ROM WP#



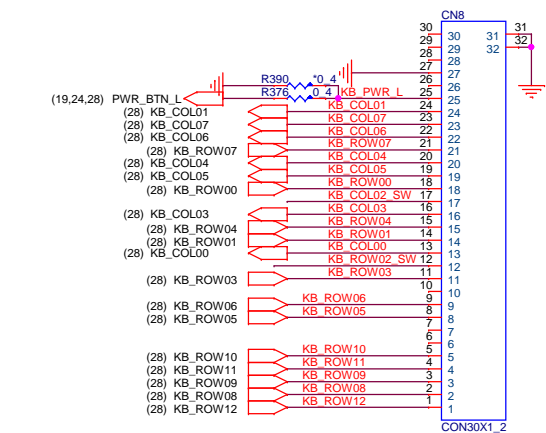
Quanta Computer Inc.

PROJECT : ZHS

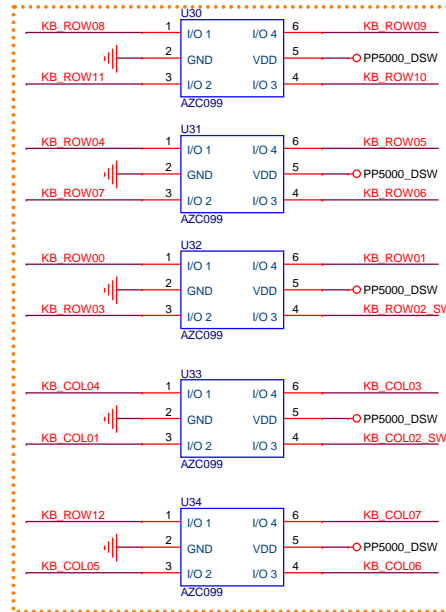
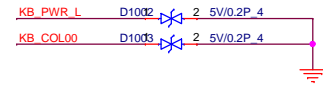
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	USB3/Hole	1A
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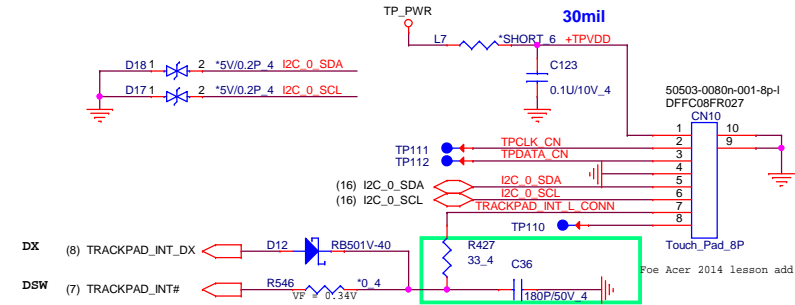
K/B (KBC)



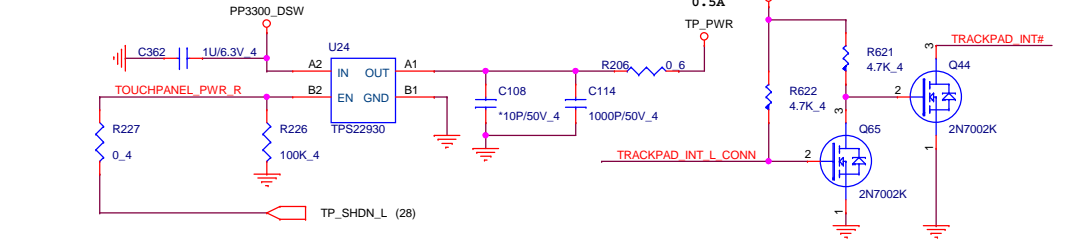
0402 Changed HDMI connector as Origins use



Track PAD BOARD CONN (TPD)

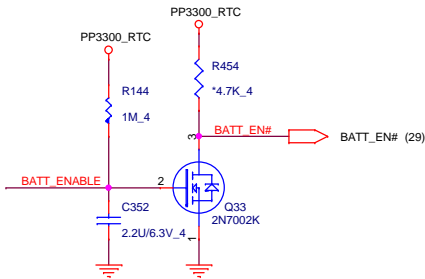


Track PAD Power(TPD)

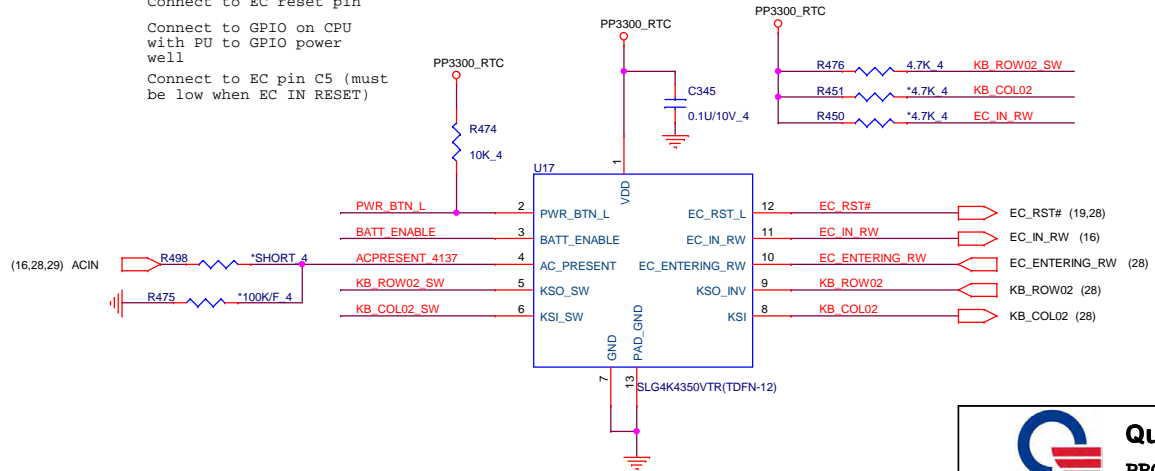


HOLELESS RESET 2-CHIP(KBC)

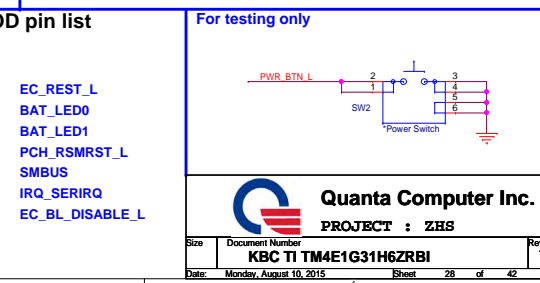
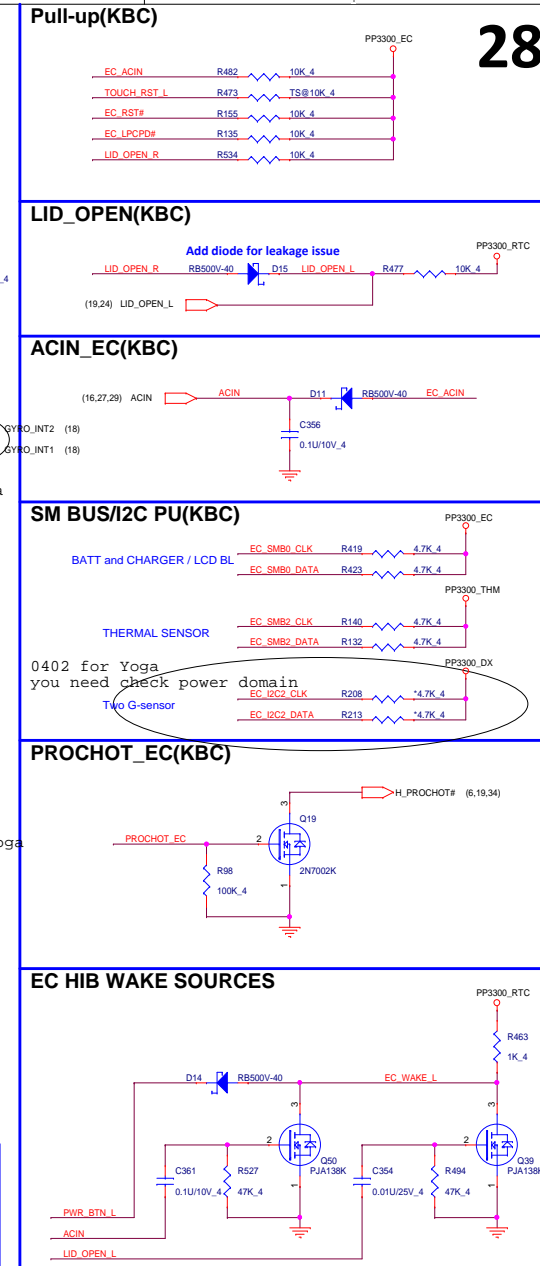
Connect to EC reset pin  
Connect to GPIO on CPU  
with PU to GPIO power  
well  
Connect to EC pin C5 (must  
be low when EC IN RESET)



0407 removed SW1



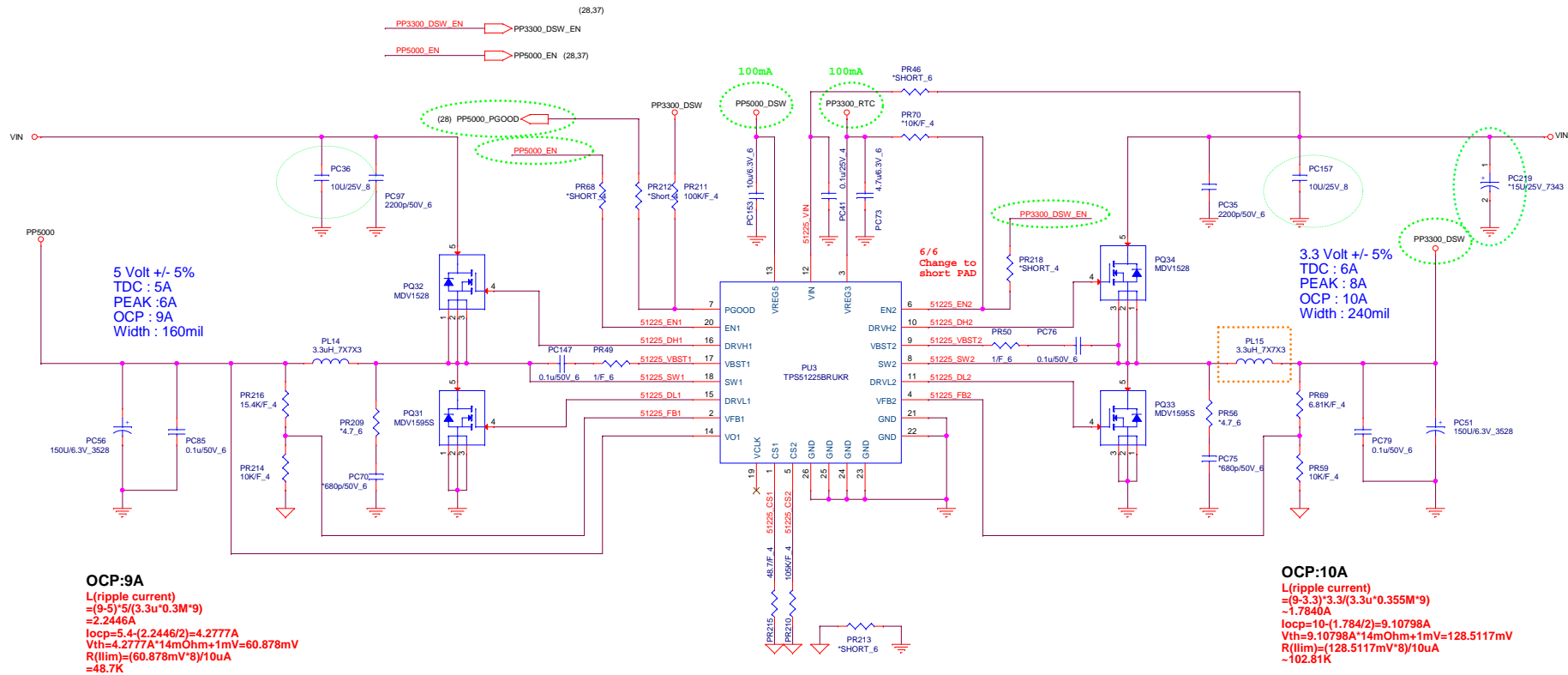








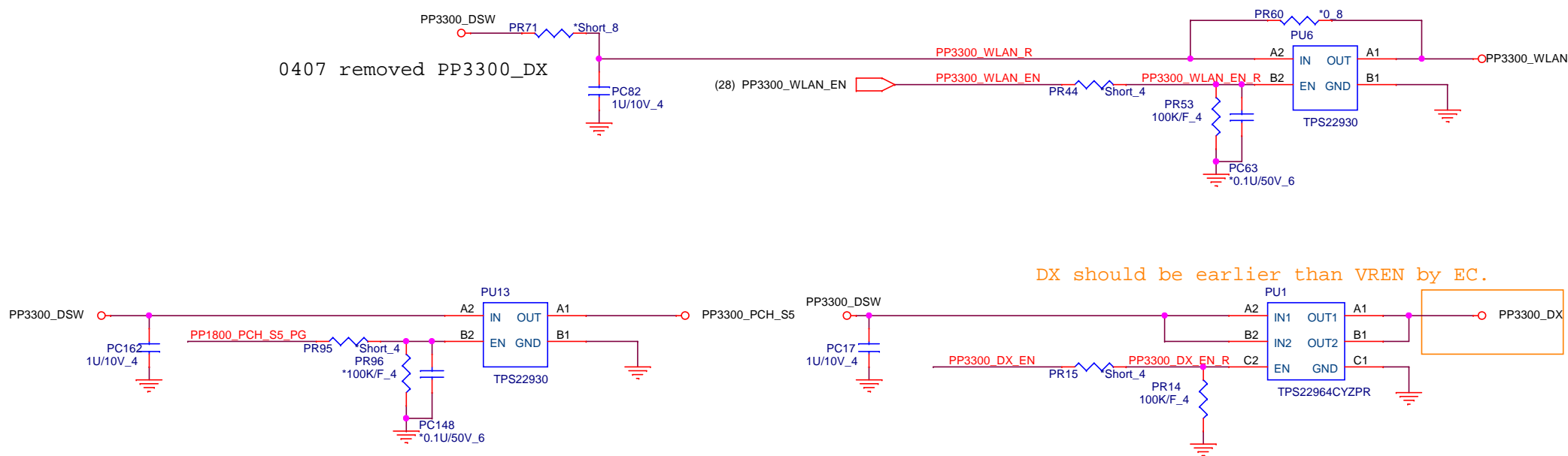






(36) PP1800\_PCH\_S5\_PG PP1800\_PCH\_S5\_PG  
(28) PP3300\_DX\_EN PP3300\_DX\_EN

0407 removed PP3300\_DX

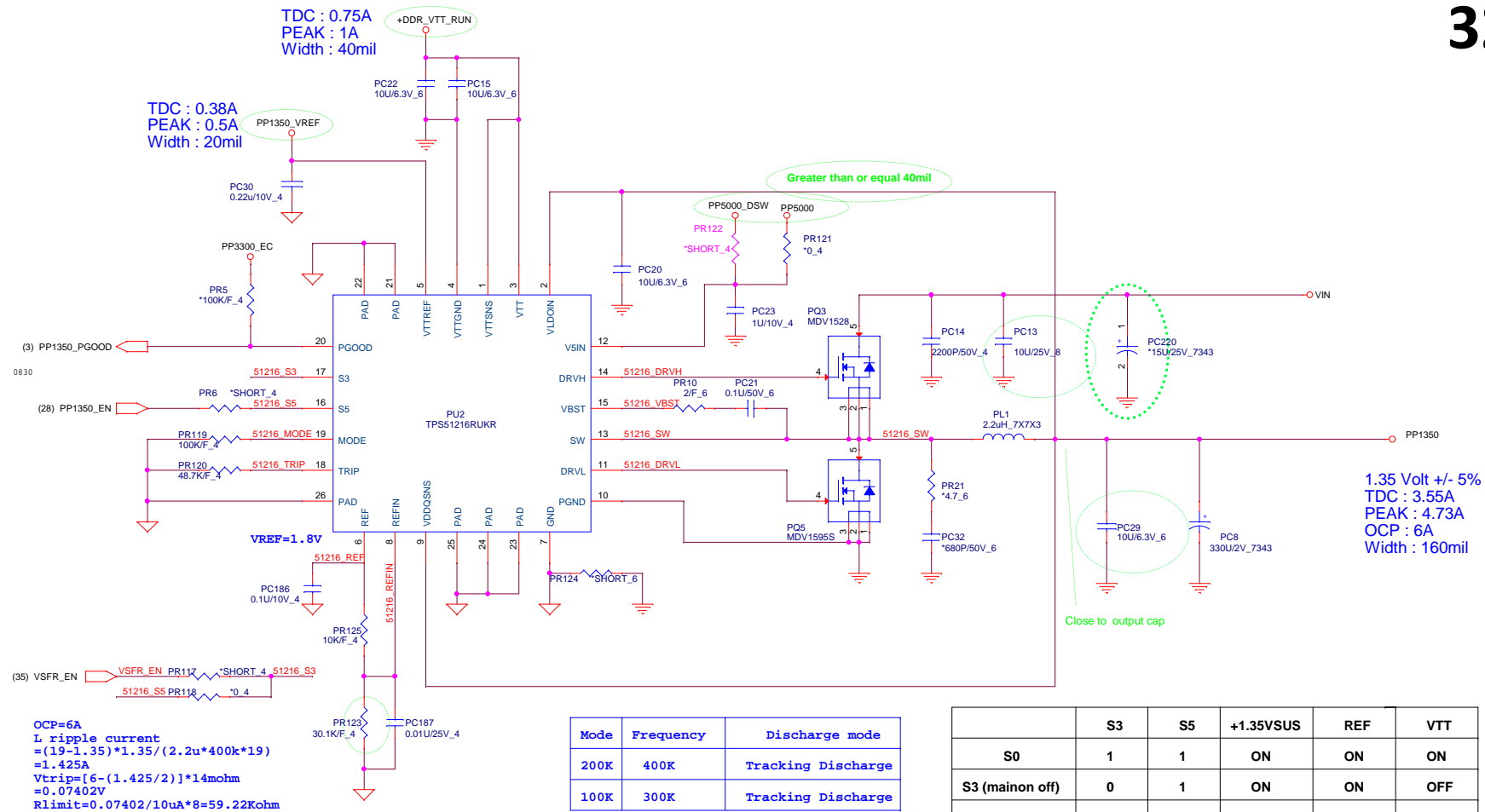


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PROJECT :

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	Load Switch	1A
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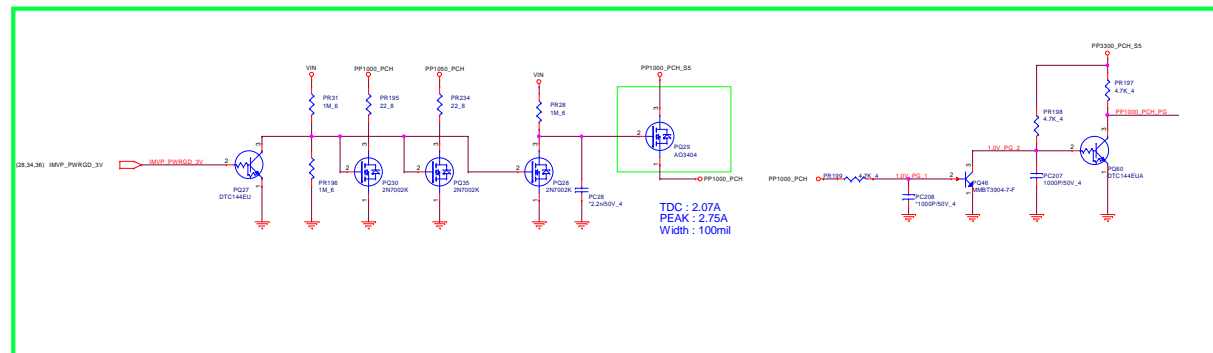
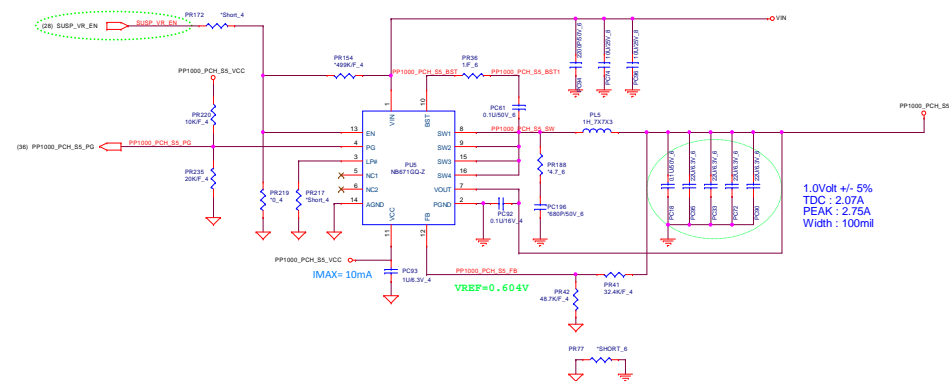
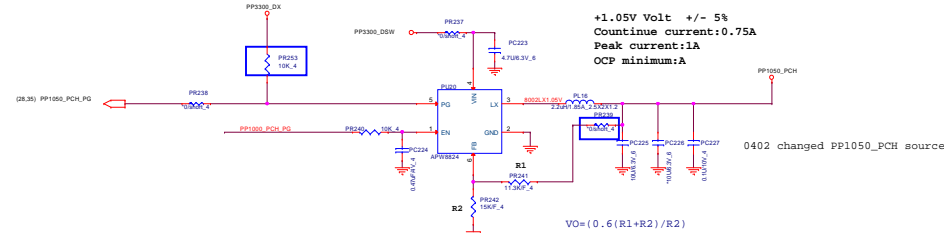
**PROJECT :**

Size Document Number  
DDR 1.35V(TPS51216) Rev 1A

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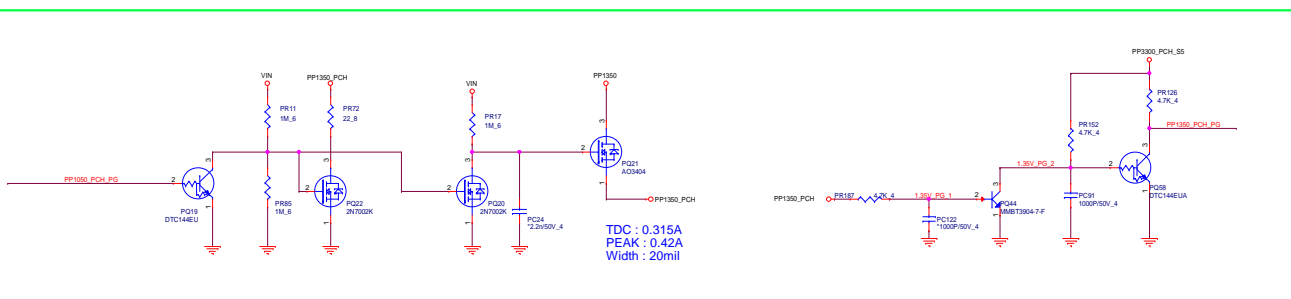
5/19 change Add PG 10K PU





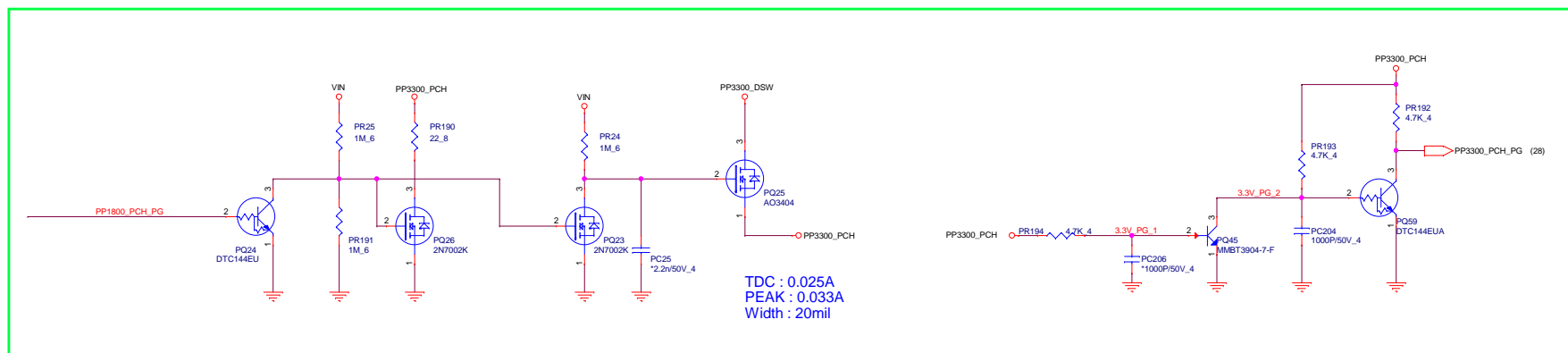
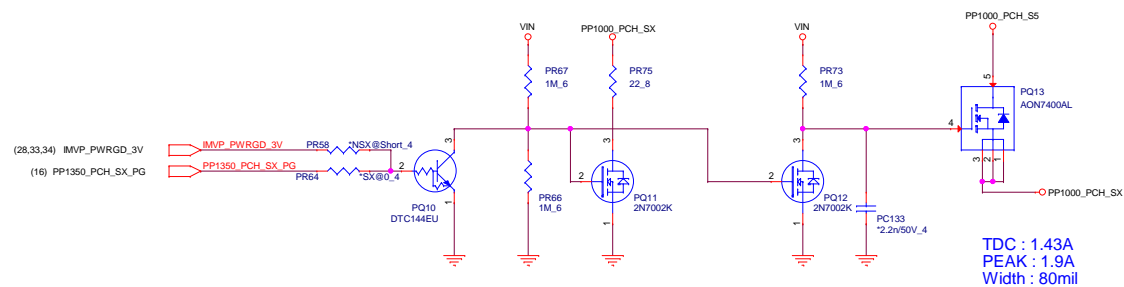
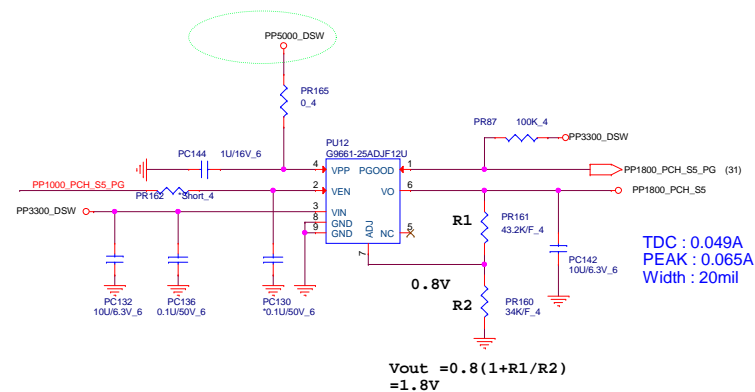








(35) PP1800\_PCH\_PG  
(33) PP1000\_PCH\_S5\_PG





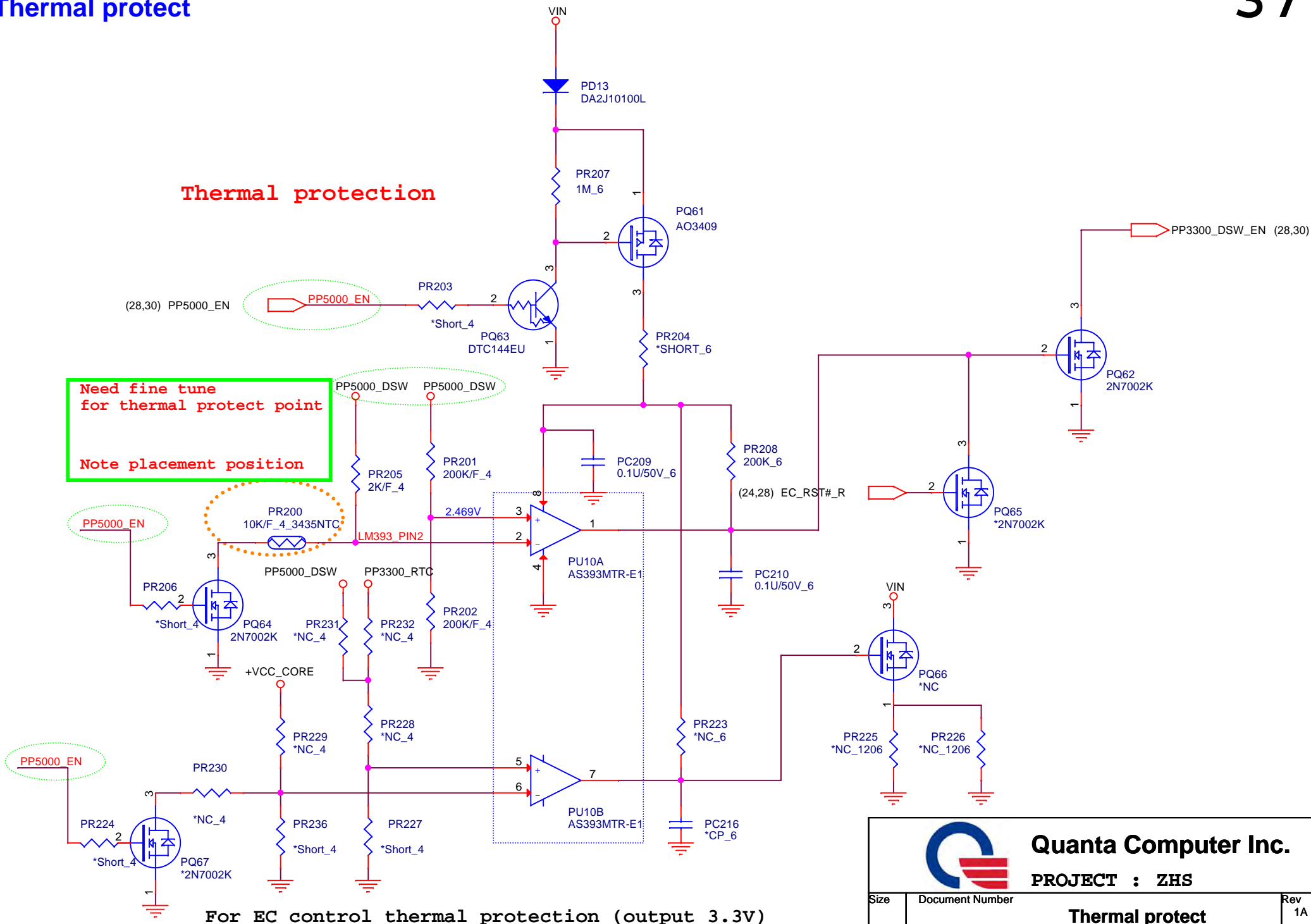
# Thermal protect

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## Thermal protection

Need fine tune  
for thermal protect point

Note placement position

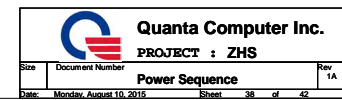
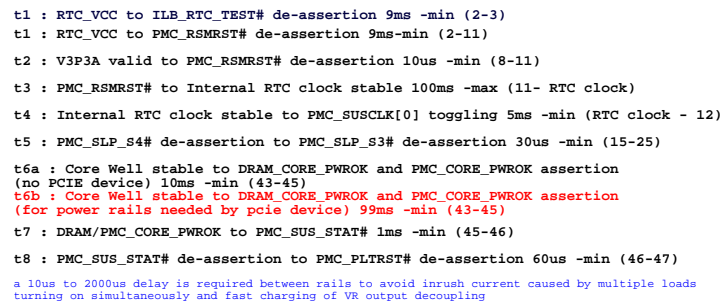


**Quanta Computer Inc.**

**PROJECT : ZHS**

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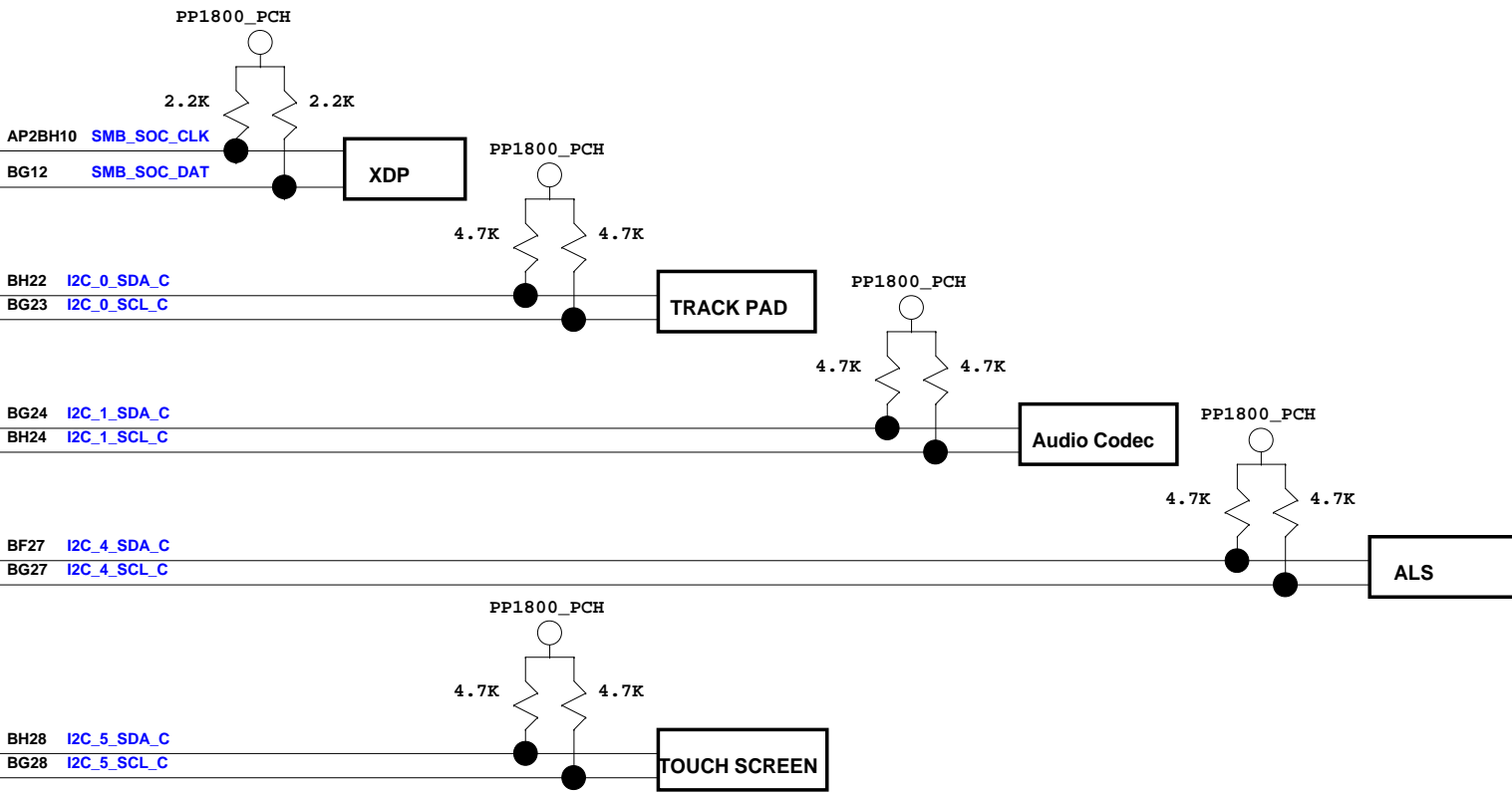




**SMBUS**

**Bay-trail M**

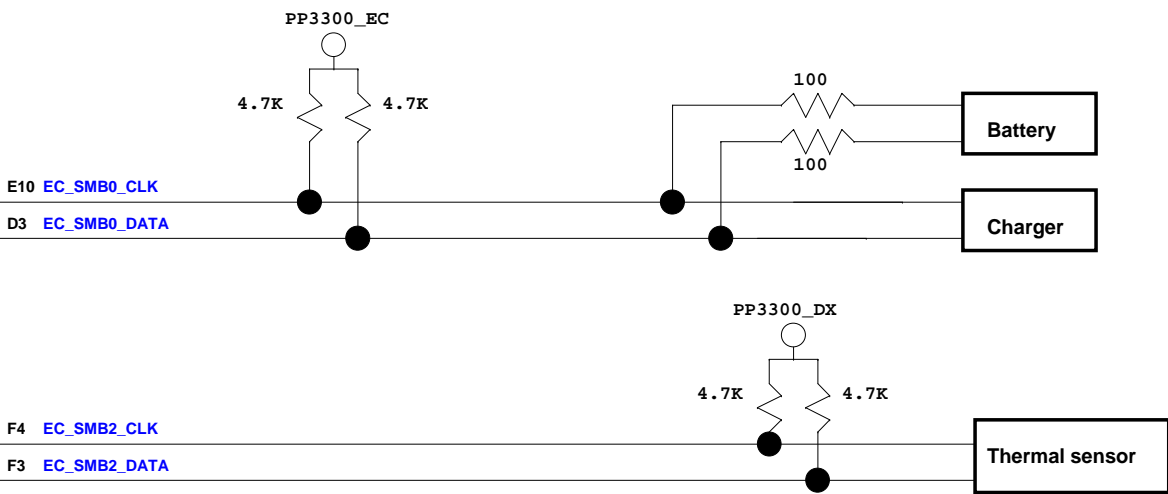
**I2C**



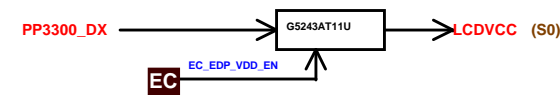
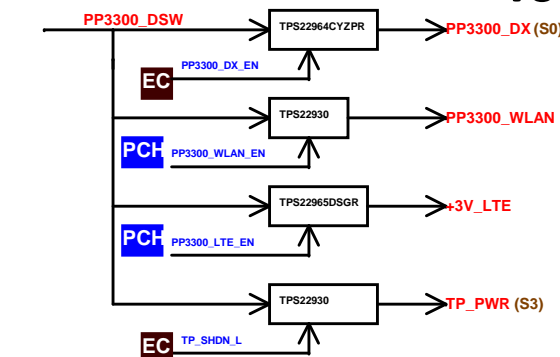
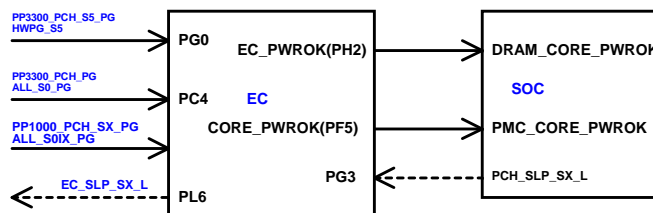
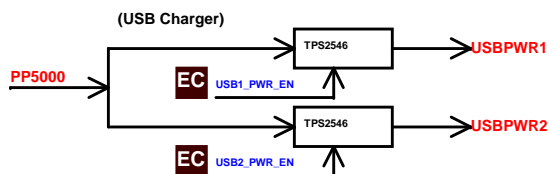
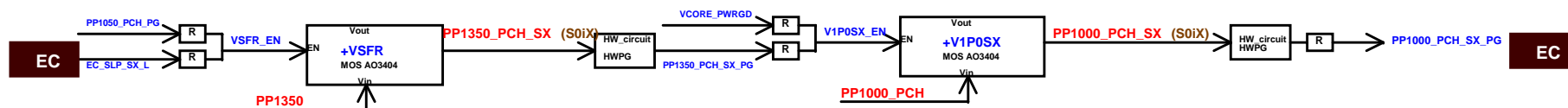
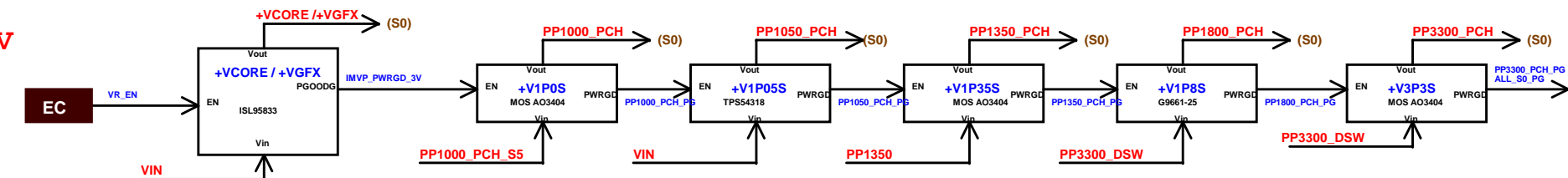
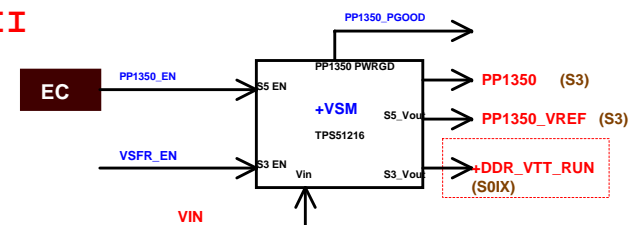
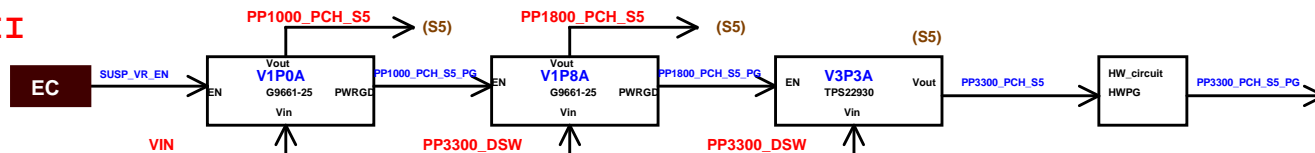
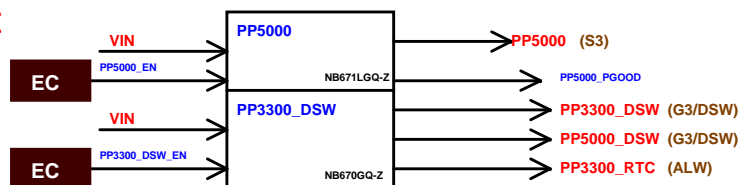
**KBC**

**TI**


**SMBUS**










		CHANGE LIST				41
Model	Version					
ZHS M/B	1A	<div>1. 2015/05/19 :Update RAM ID for ZHQ and ZHS use.(page8) 2. 2015/05/19 : add R200 and R214 LTE_WAKE# and PMC_SUSCLK1 pull high to PP1800_PCH_S5 for can't into S3 issue (Page7) 3. 2015/05/19 : add R426 LTE_DISABLE# Pull-High to PP1800_PCH_S5 for can't into S3 issue.(Page 8) 4. 2015/05/19 : add R603/R609/Q62/R167/R607/Q63 FOR SD Card can't work issue. (page 17) 5. 2015/05/19 : add PR523 10k Pull-high to PP3300_DX for can't power on issue (Page 41) 6. 2015/05/19 : add PR234 and PQ35 for PP1050_PCH 放電線路 (Page 41) 7. 2015/05/19 : EMI request add PC189 for EMI issue. (Page 39) 8. 2015/05/19 : EMI request add C112 for EMI issue. (page22) 9. 2015/05/19 : EMI request add C130/C132 DMIC CLK/DAT for EMI issue(Page22)</div>				
		<div>1. 2015/06/19 : Add C35 and Change R326 to 33 ohm for Acer ESD request (page18) 2. 2015/06/19 : Add Pad1-Pad12 for Acer ESD request (page26) 3. 2015/06/19 : Add R427 33 ohm Acer ESD request (page27) 4. 2015/06/19 : Del R490 , Add R516 for SANYO battery 5. 2015/06/19 : Change 0 ohm to Short Pad: R14,R17,R39,R217 6. 2015/08/10 : Change 0 ohm to Short Pad: PR46,PR218,PR68,PR248,PR244,PR247,PR243,PR249,PR245,PR122,PR6,PR117,PR250,PR246</div>				
DOC NO.	PROJECT MODEL	Chrome	APPROVED BY:		DATE:	
	PART NUMBER:		DRAWING BY:		REVISION:	
		<div><div>Quanta Computer Inc.</div><div>PROJECT : 848</div><div>Change list</div></div>				



DOC NO.	PROJECT MODEL :	Chrome	APPROVED BY:		DATE:		 <b>Quanta Computer Inc.</b> PROJECT : EMI
	PART NUMBER:		DRAWING BY:		REVISION:		