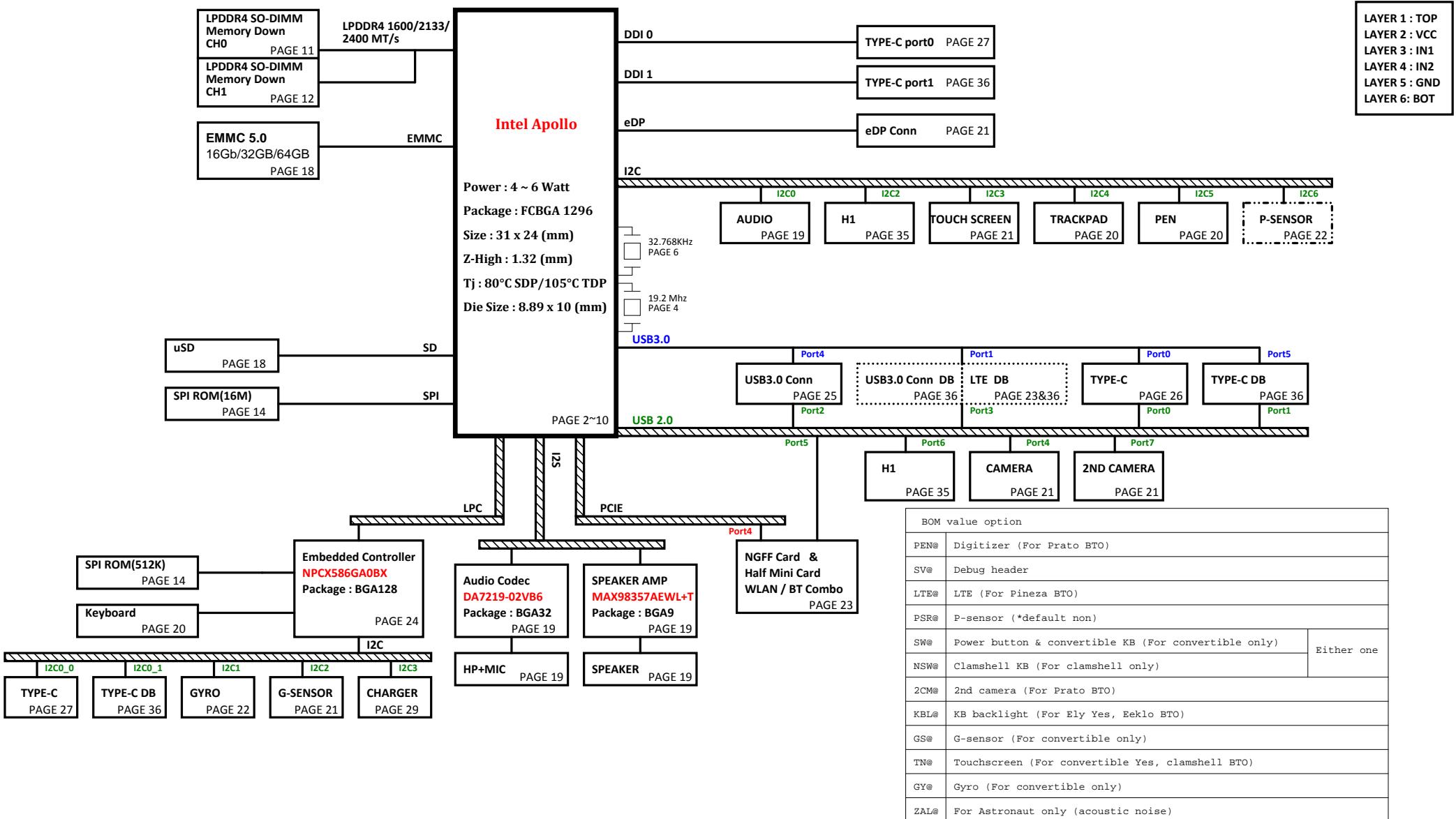
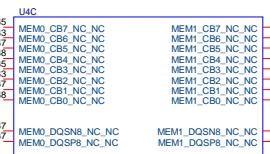
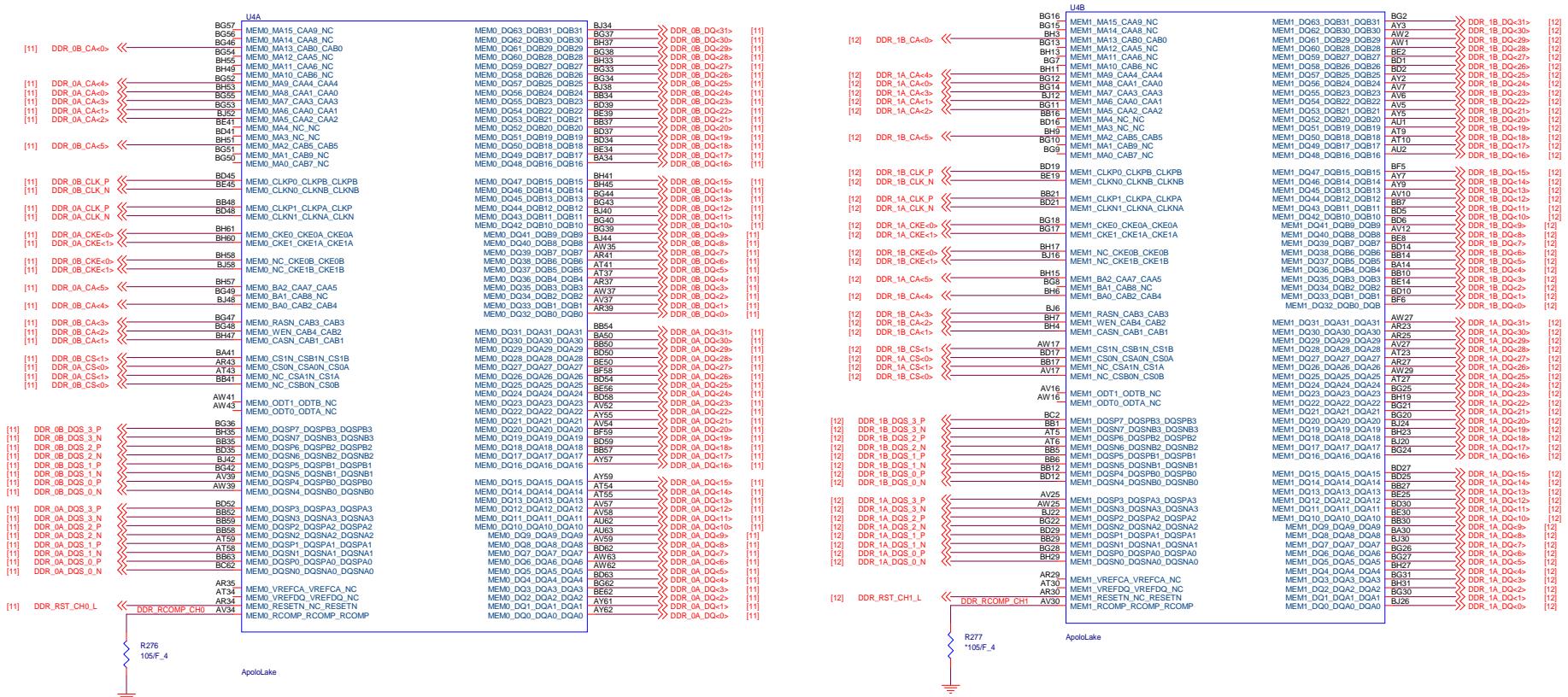


Intel Apollo Platform Block Diagram

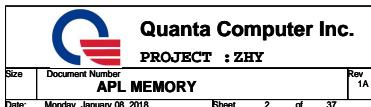


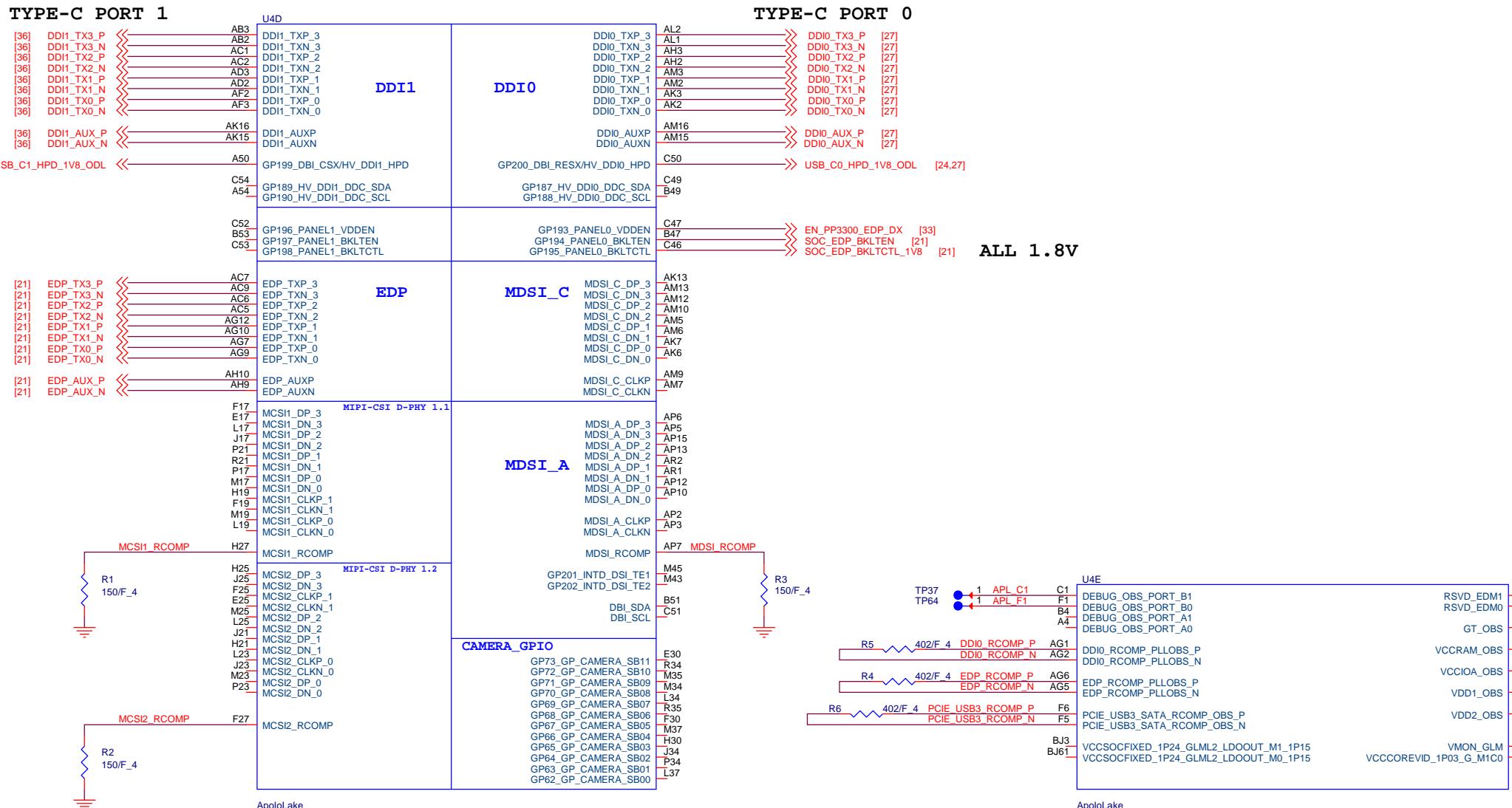
*11" and 15" USB3 TYPE-A connector and audio jack are different



ApoloLake

R277
**105/F_4

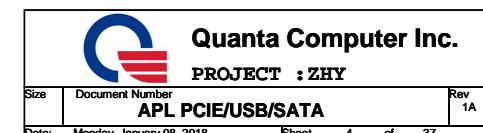
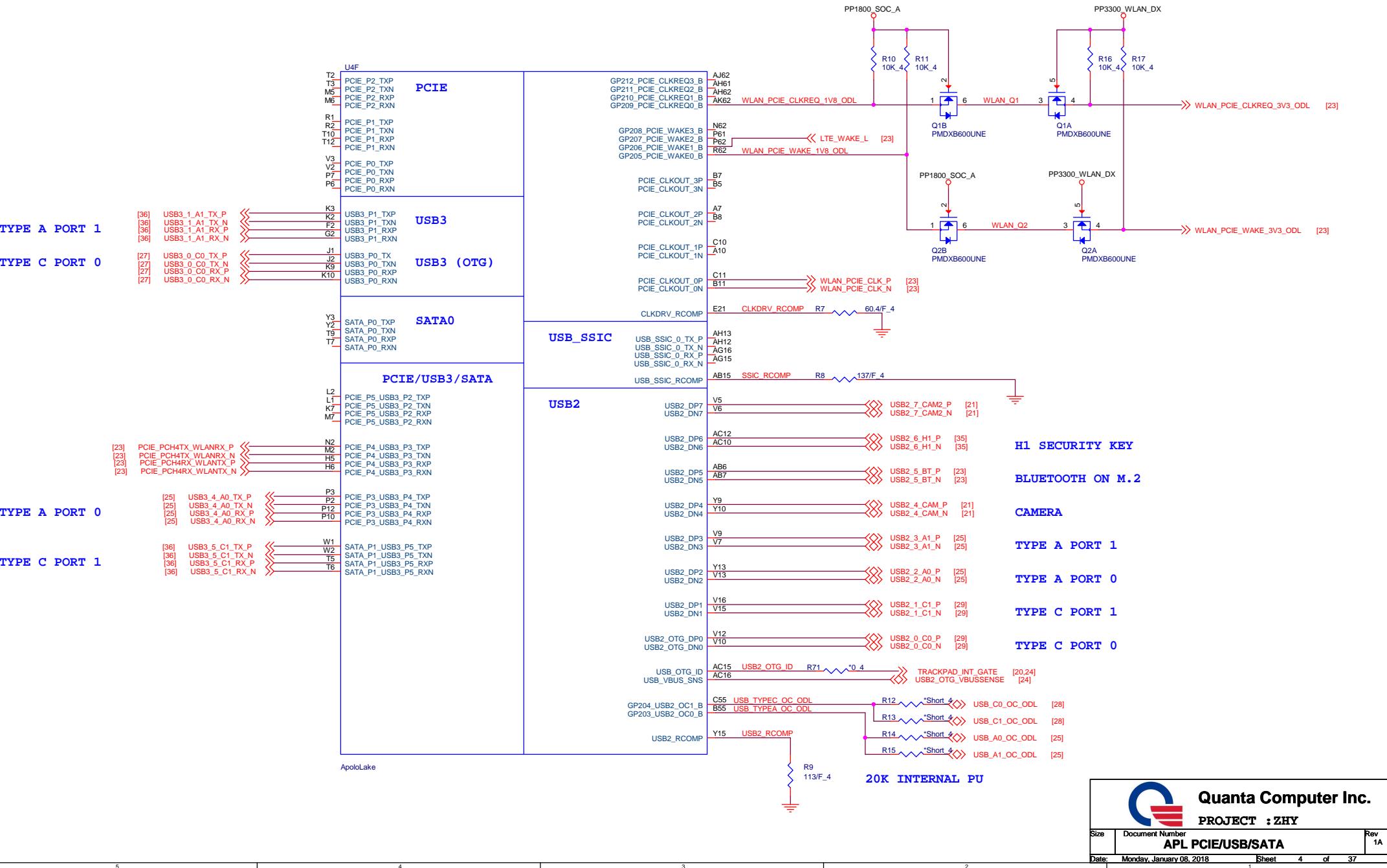


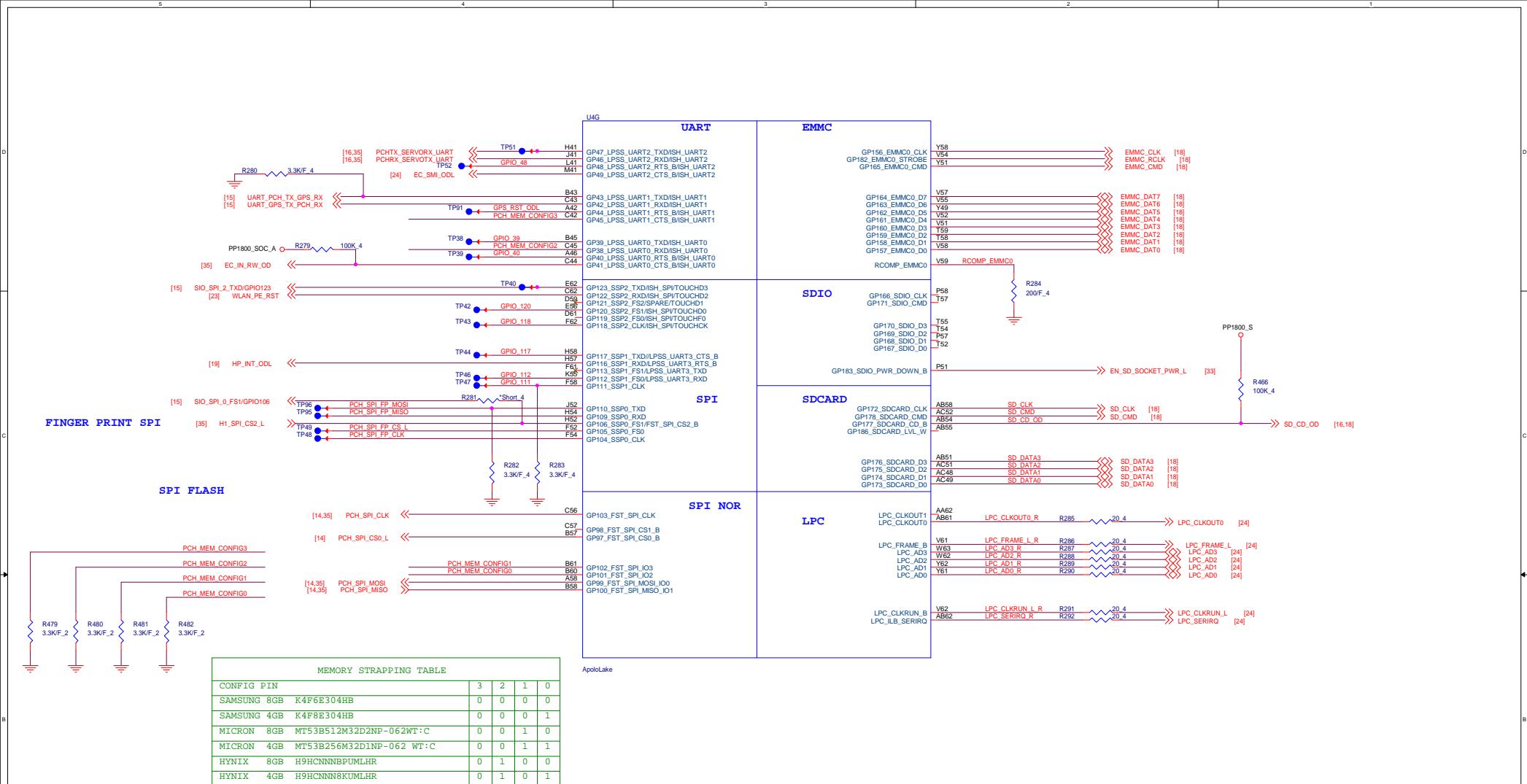


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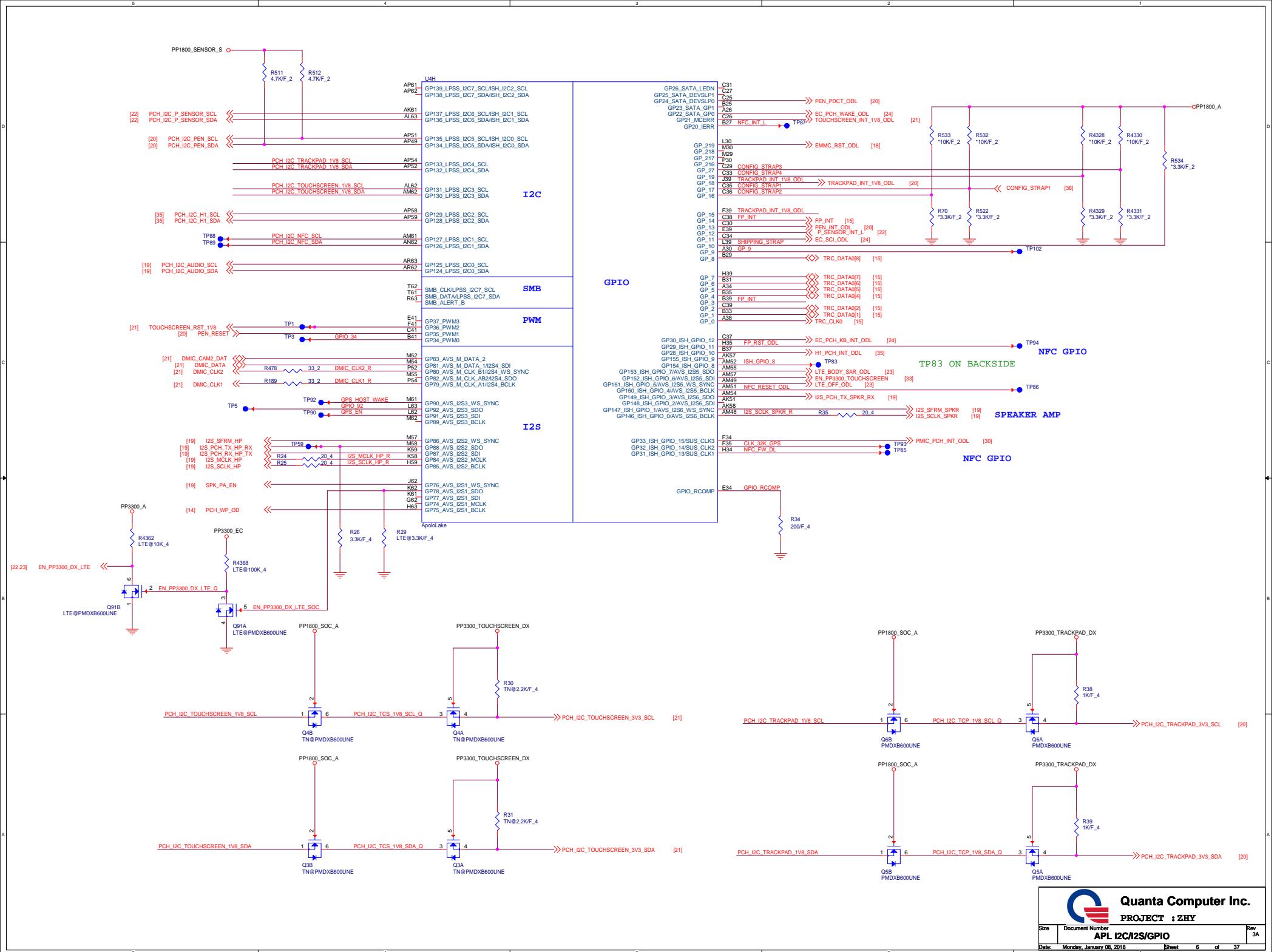
PROJECT : ZHY

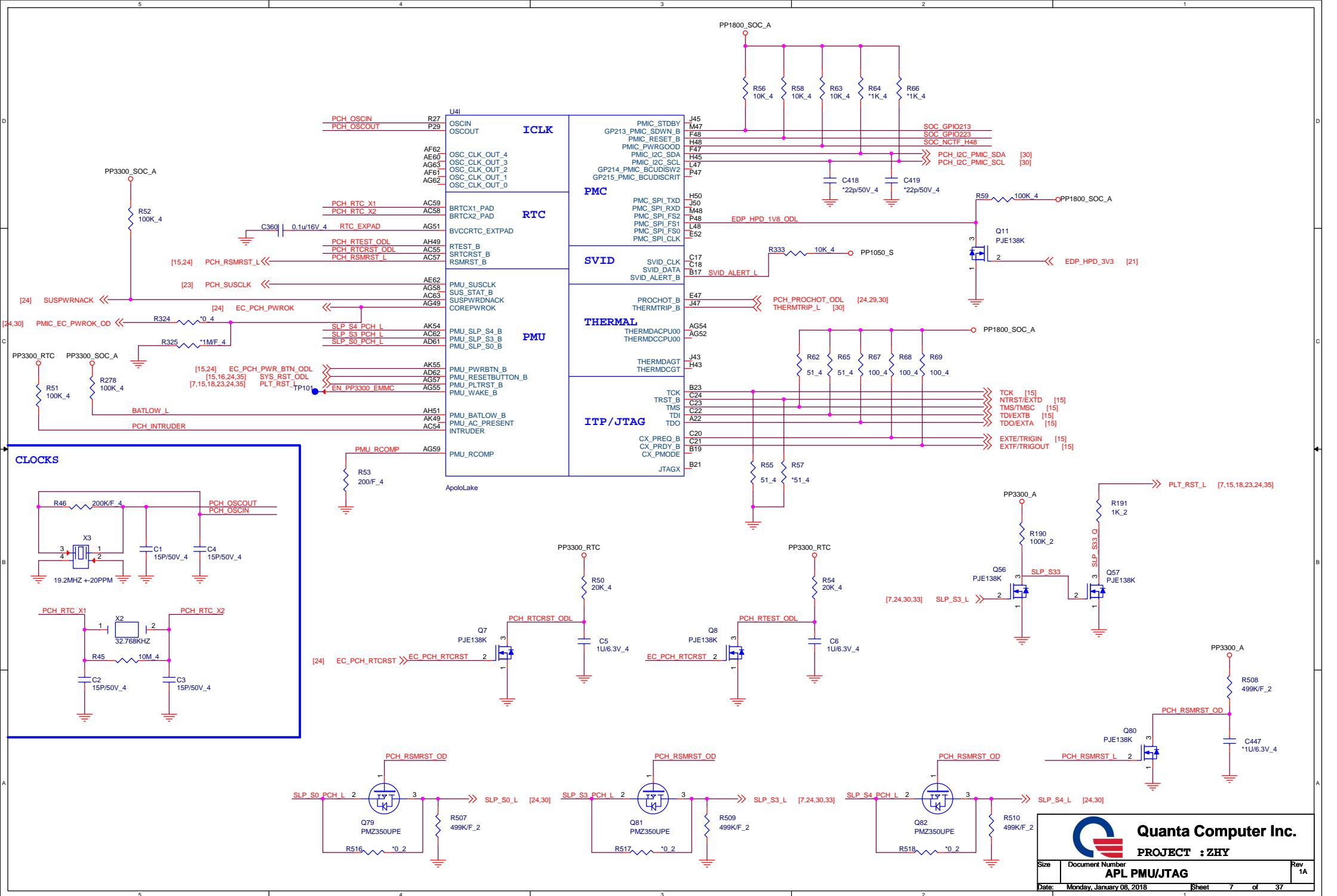
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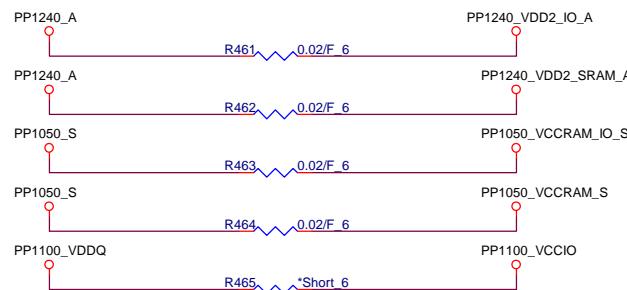
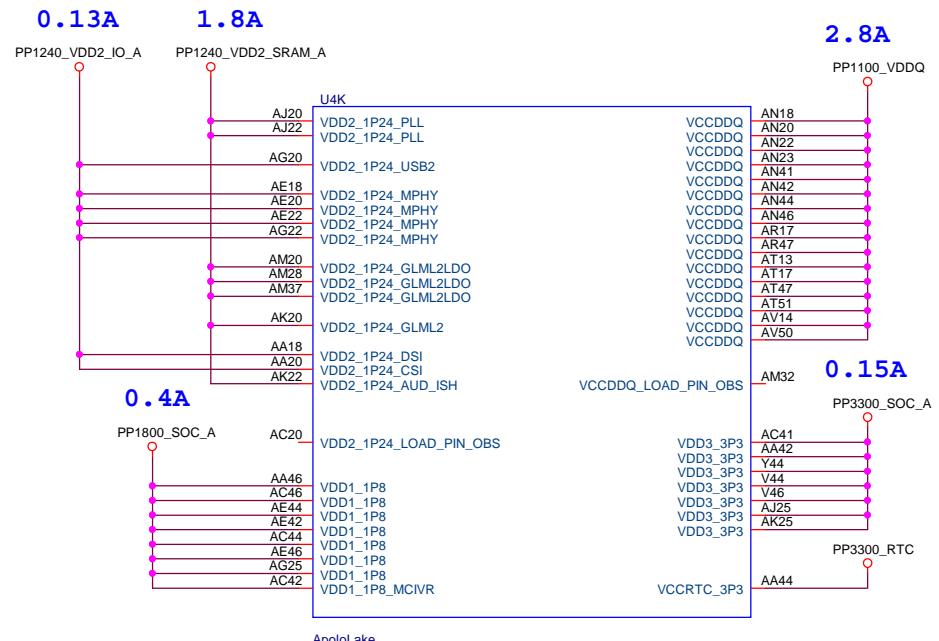
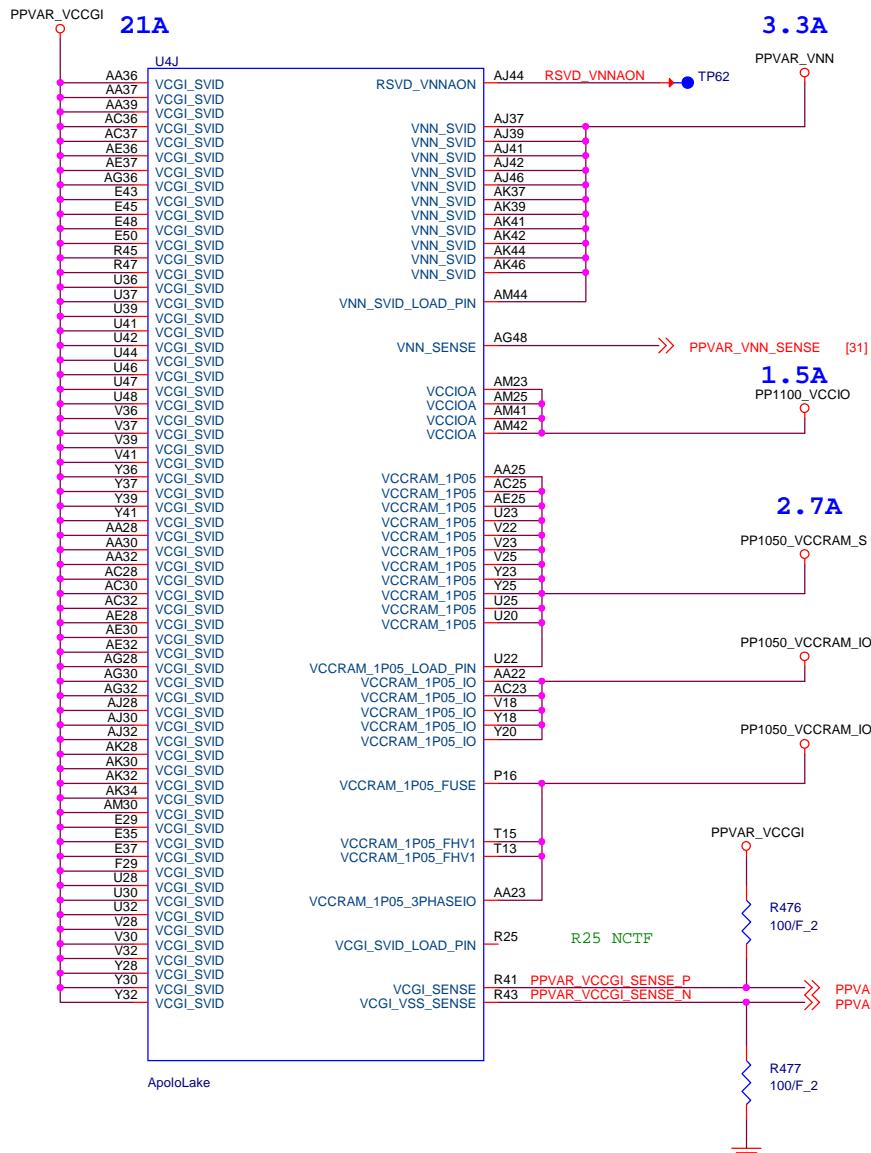


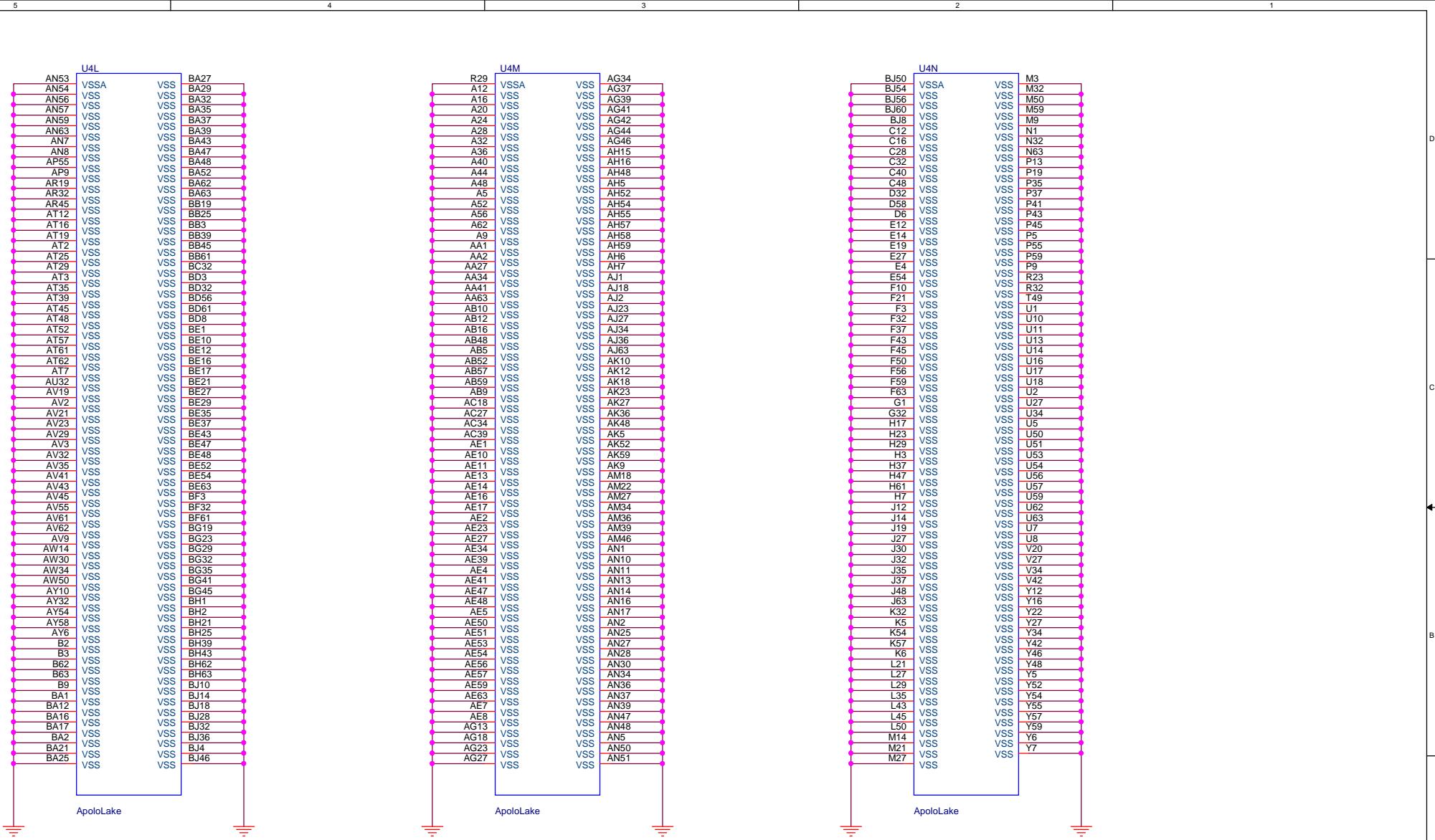


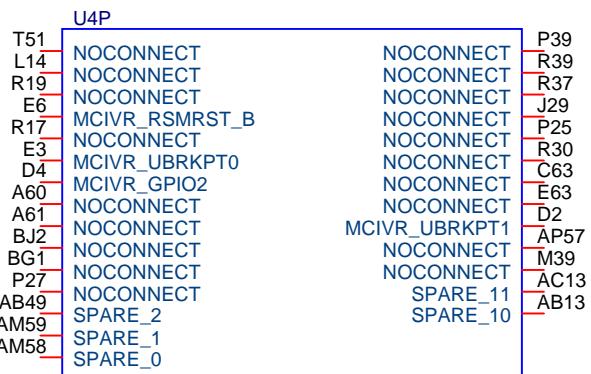
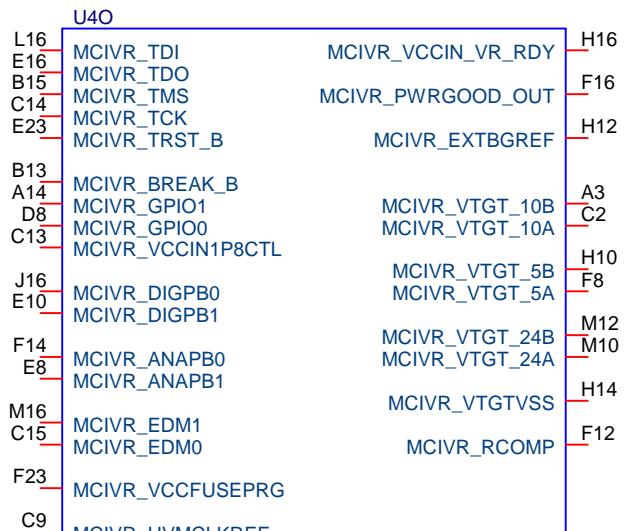
Hardware Straps (* = System Strap Selection)				
GPIO_39: INTERNAL 20K PD *DISABLE CSE ROM BYPASS: 0 ENABLE CSE ROM BYPASS: 1	GPIO_47: INTERNAL 20K PD *DON'T FORCE DNX FW LOAD: 0 FORCE DNX FW LOAD: 1	GPIO_106: INTERNAL 20K PU *MUST BE HIGH WHEN RSM_RST_N DEASSERTS	GPIO_117: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	GPIO_120: INTERNAL 20K PD *TOP SWAP OVERRIDE DISABLE: 0 TOP SWAP OVERRIDE ENABLE: 1
GPIO_40: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	GPIO_48: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	GPIO_111: INTERNAL 20K PU DO NOT BOOT FROM SPI: 1 *BOOT FROM SPI: 0	GPIO_123: INTERNAL 20K PU MUST BE HIGH WHEN RSM_RST_N DEASSERTS	GPIO_121: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS
GPIO_43: INTERNAL 20K PU ENABLE BOOT FROM EMMC: 1 *DISABLE BOOT FROM EMMC: 0	GPIO_104: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	GPIO_118: INTERNAL 20K PD *NO FLASH DESCRIPTOR OVERRIDE: 0 OVERWRITE FLASH DESCRIPTOR: 1	GPIO_112: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	
GPIO_44: INTERNAL 20K PU *ENABLE BOOT FROM SPI: 1 DISABLE BOOT FROM SPI: 0	GPIO_105: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	GPIO_110: INTERNAL 20K PU LPC BUFFERS AT 1.8V: 1 *LPC BUFFERS AT 3.3V: 0	GPIO_113: INTERNAL 20K PD *MUST BE LOW WHEN RSM_RST_N DEASSERTS	







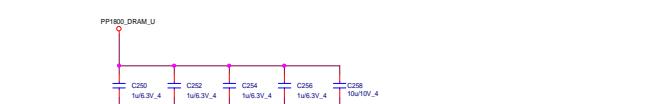
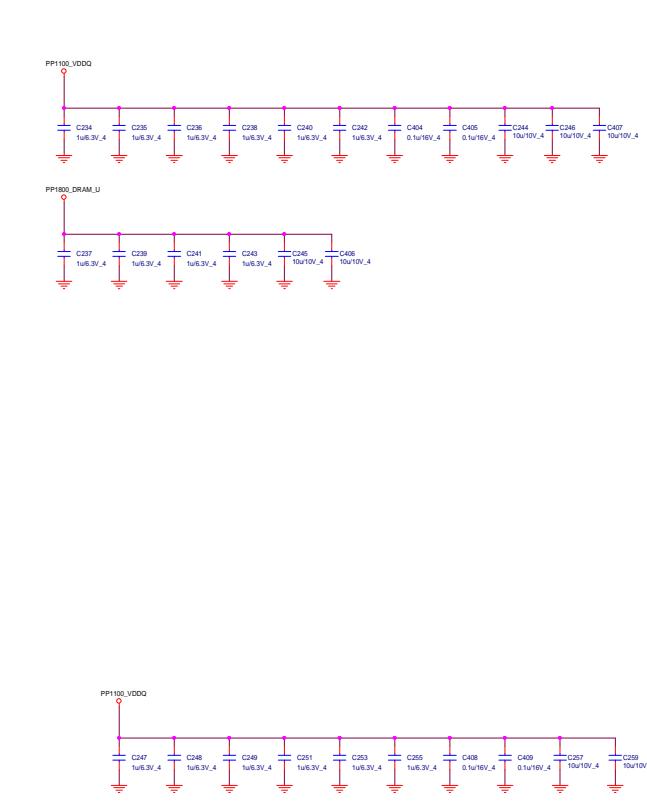
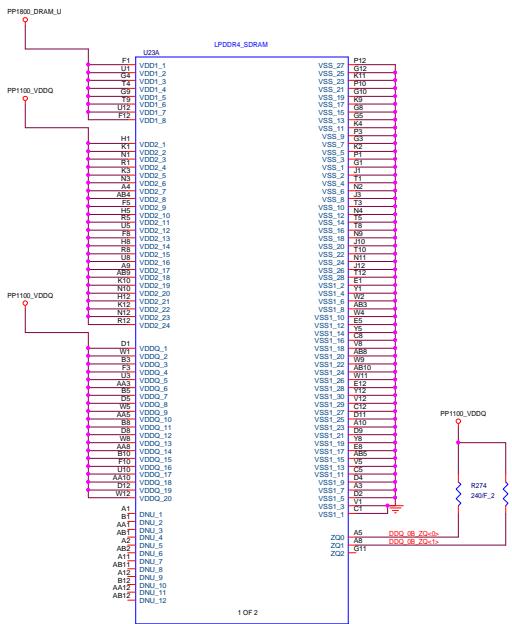
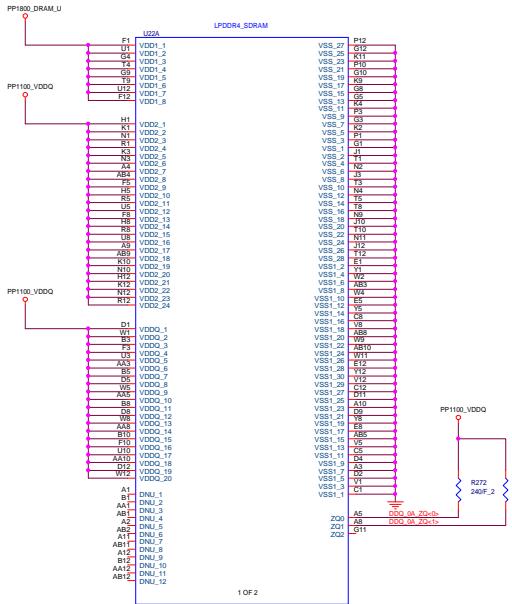
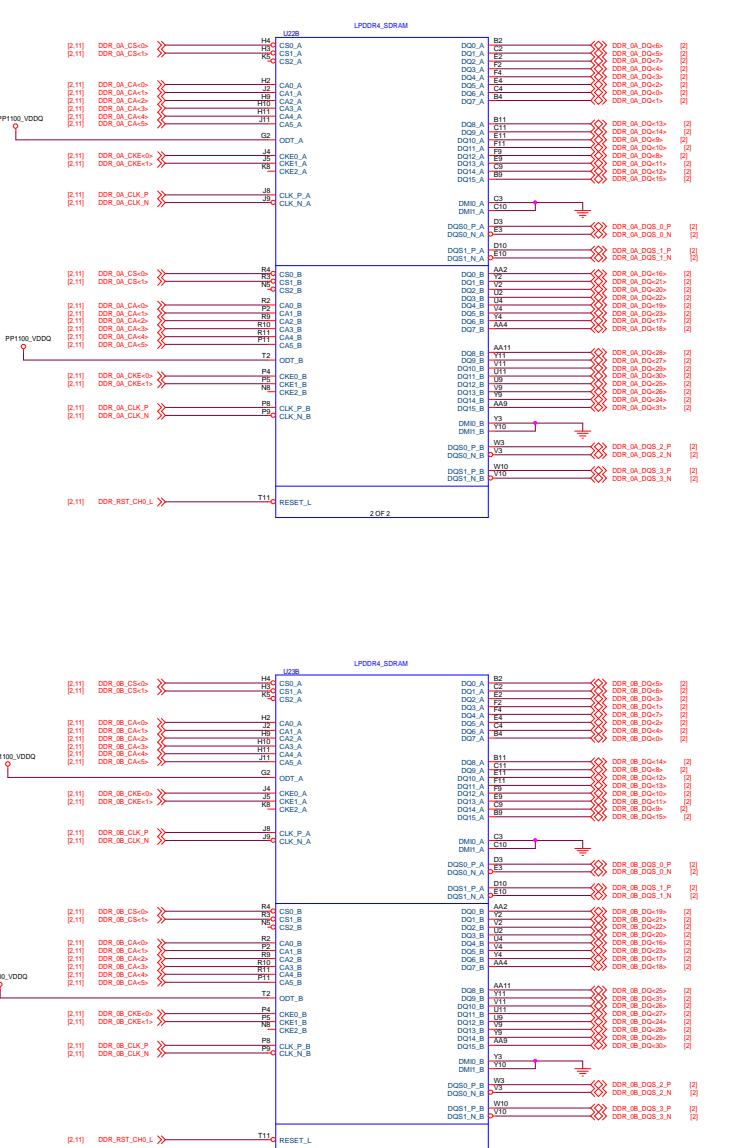


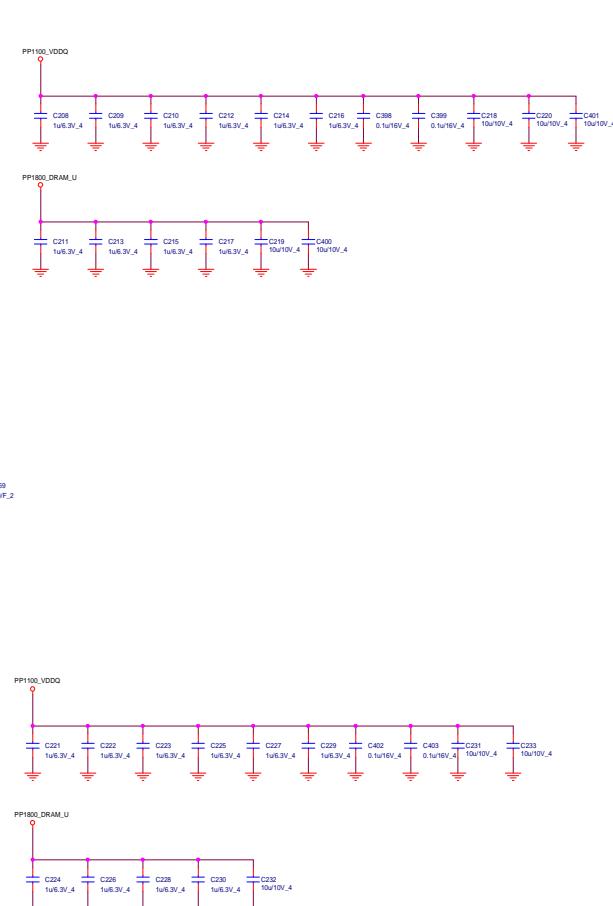
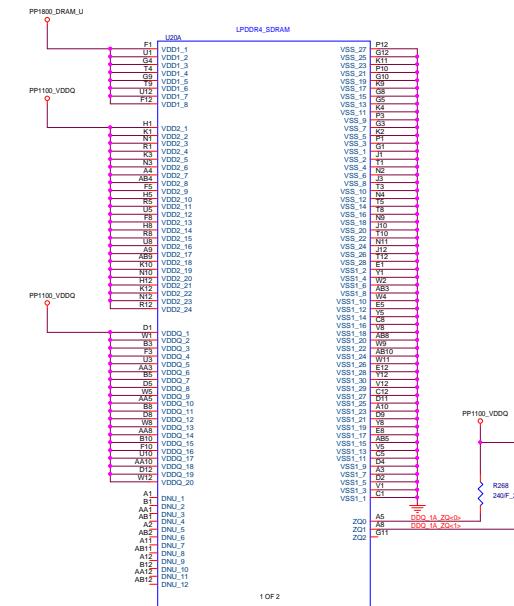
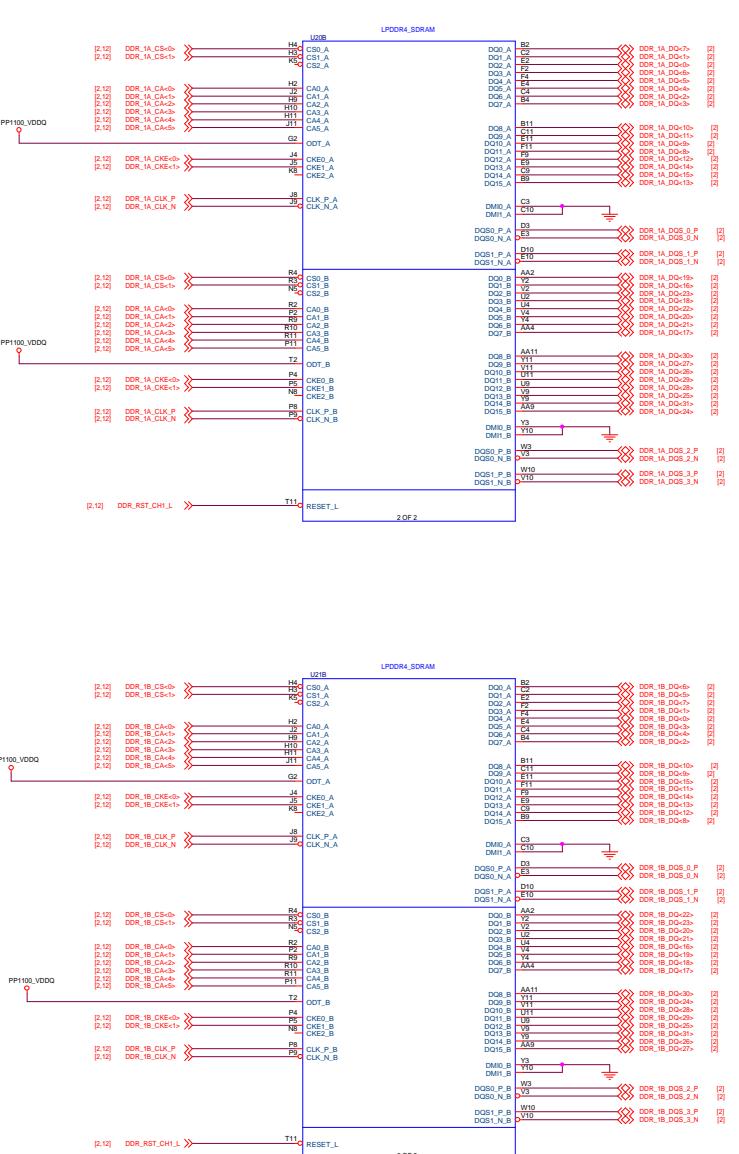


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PROJECT : ZHY

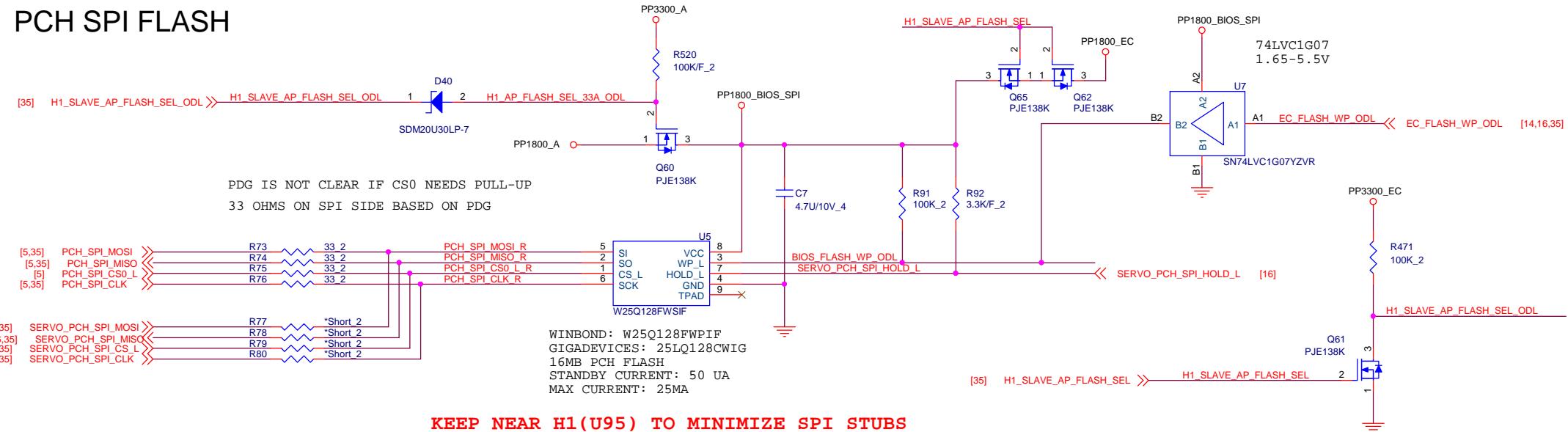
Size	Document Number	Rev
APL NO CONNECT		
Date:	Monday, January 08, 2018	Sheet
5	2	10 of 37



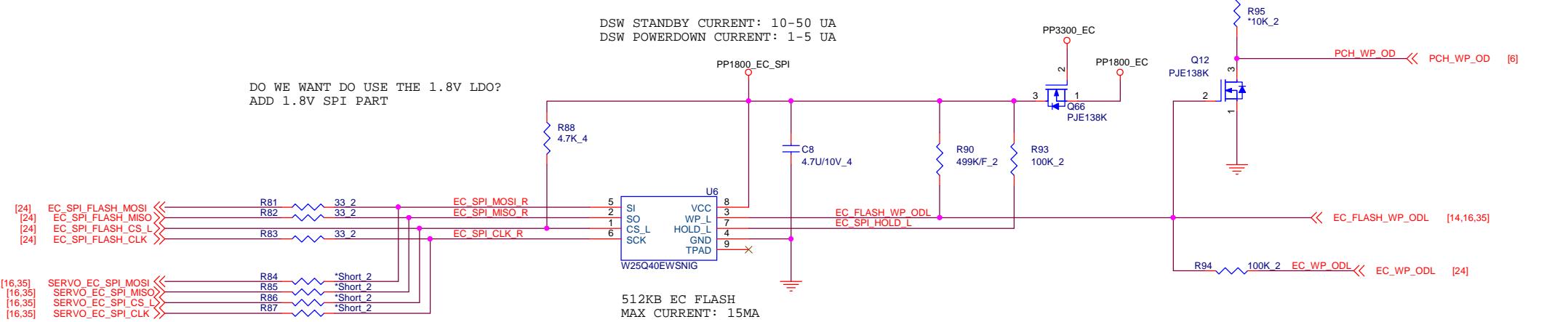


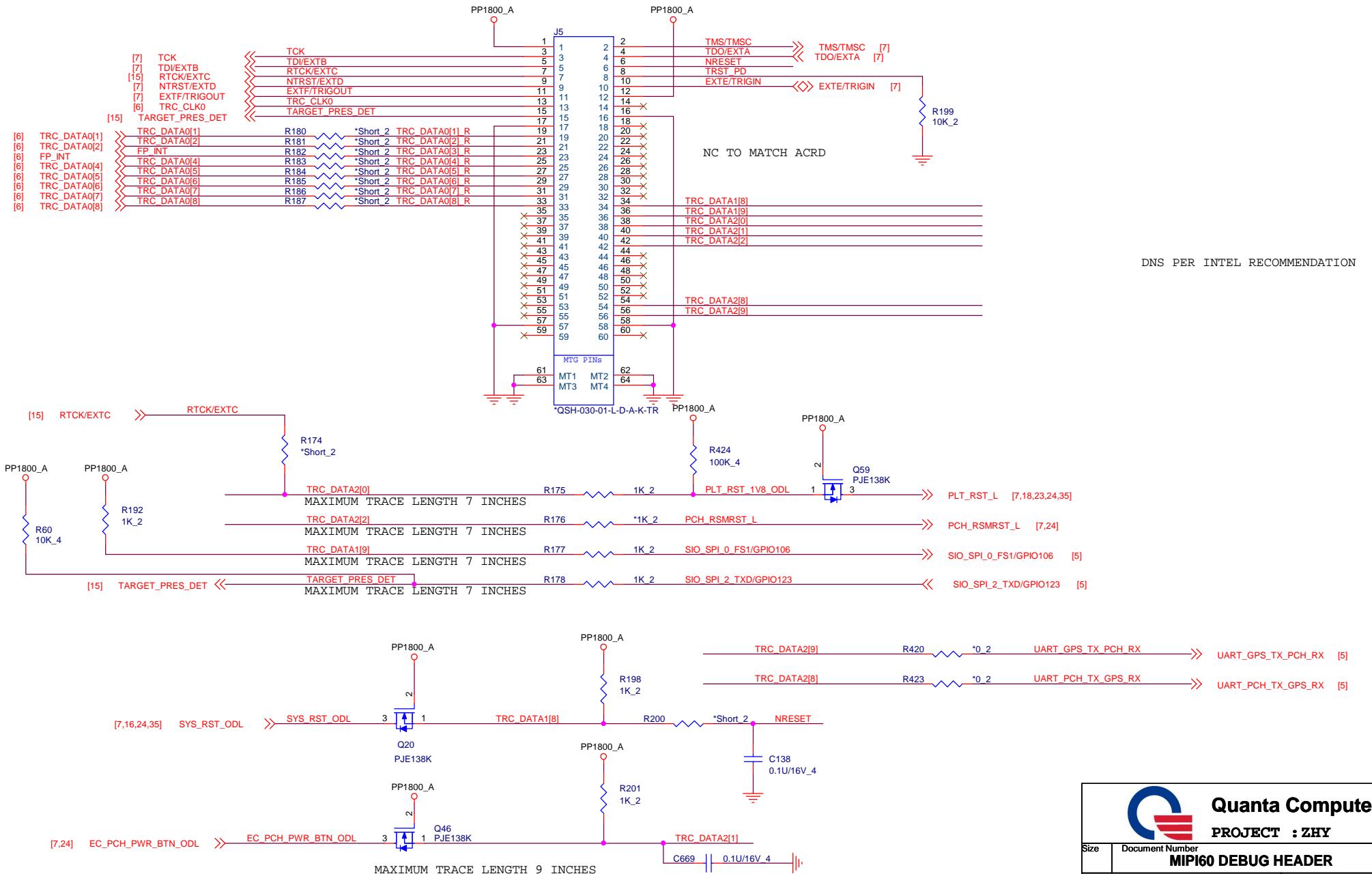


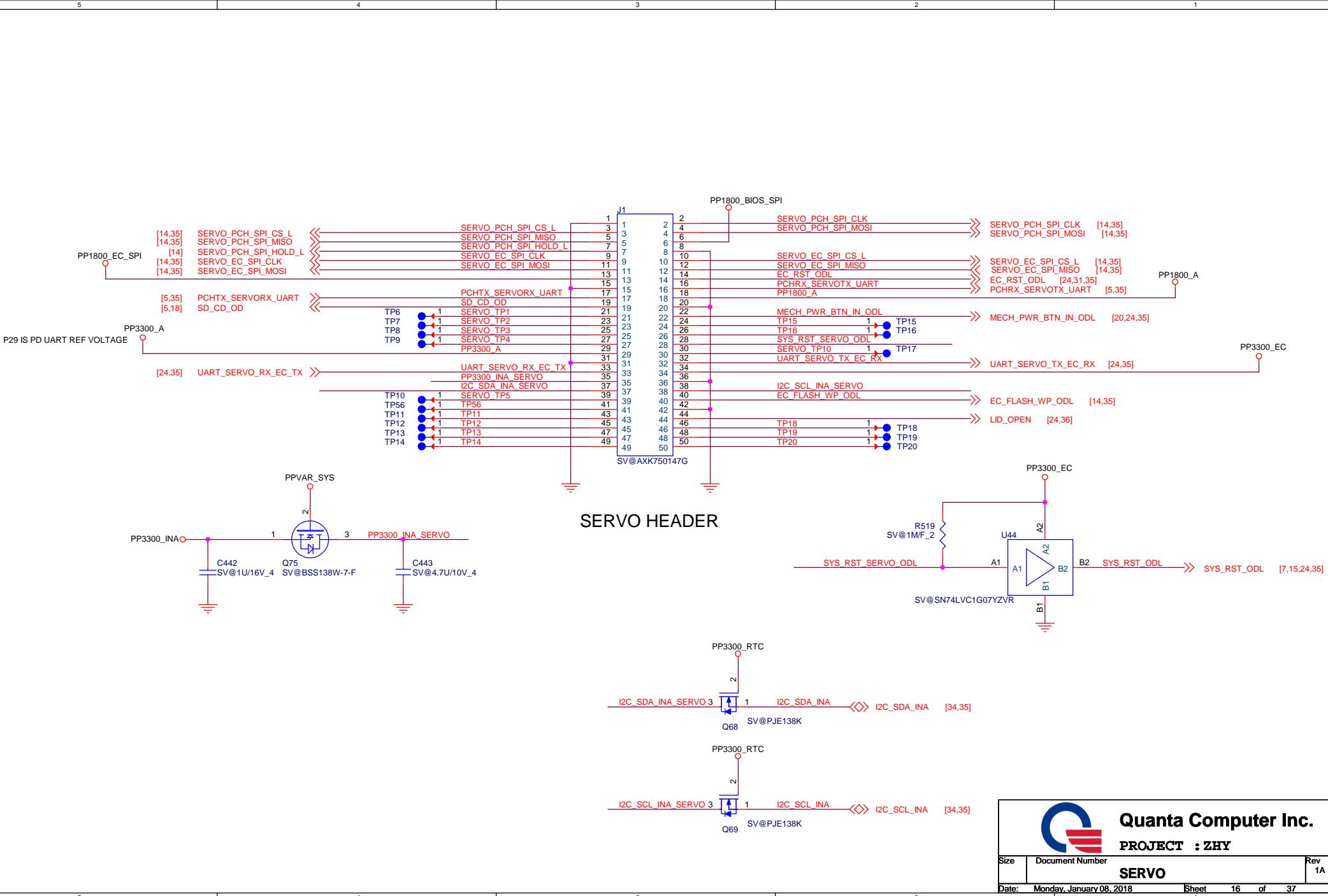
PCH SPI FLASH



EC SPI FLASH







D

D

C

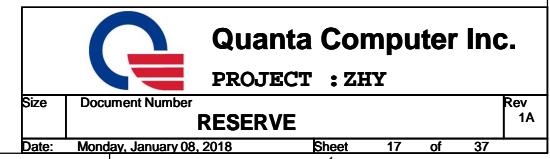
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B

B

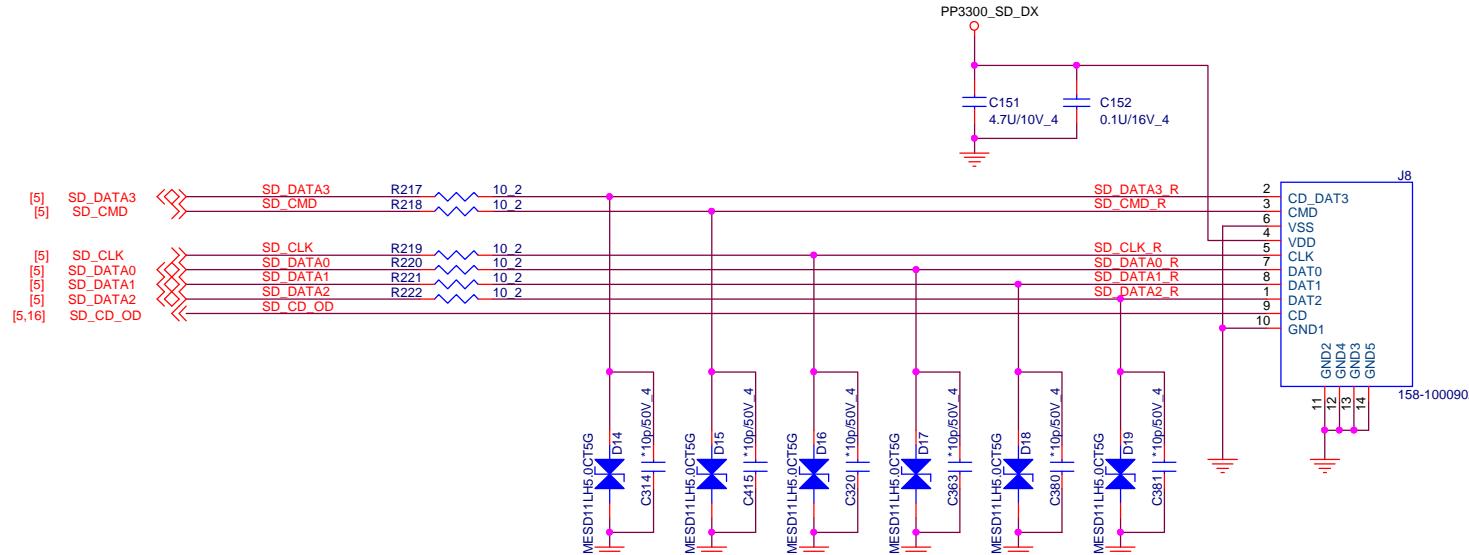
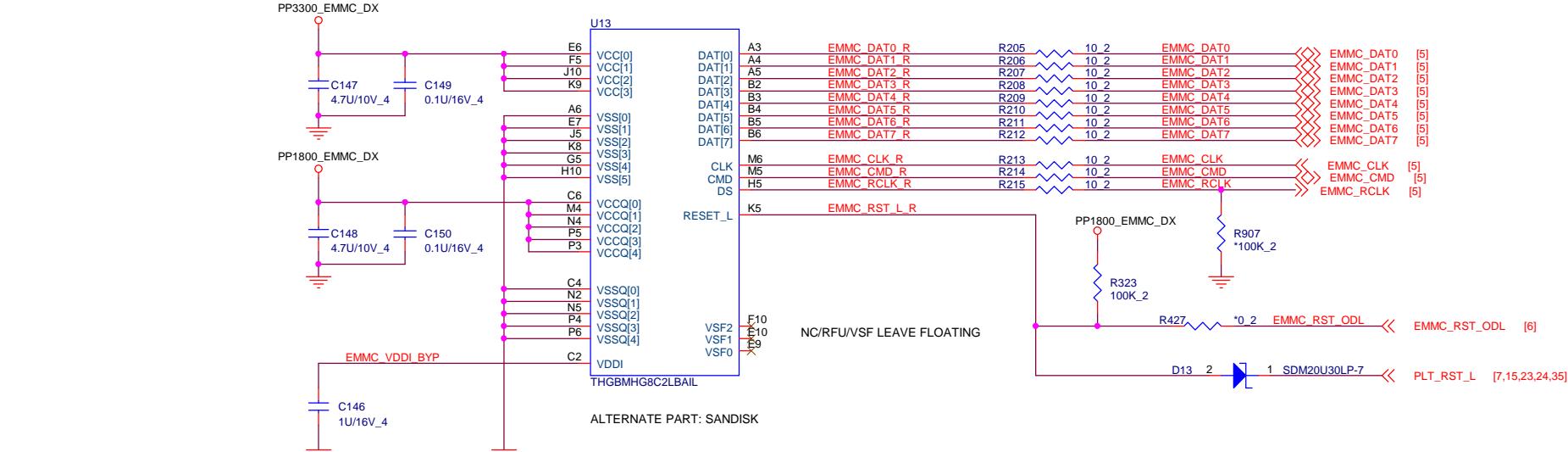
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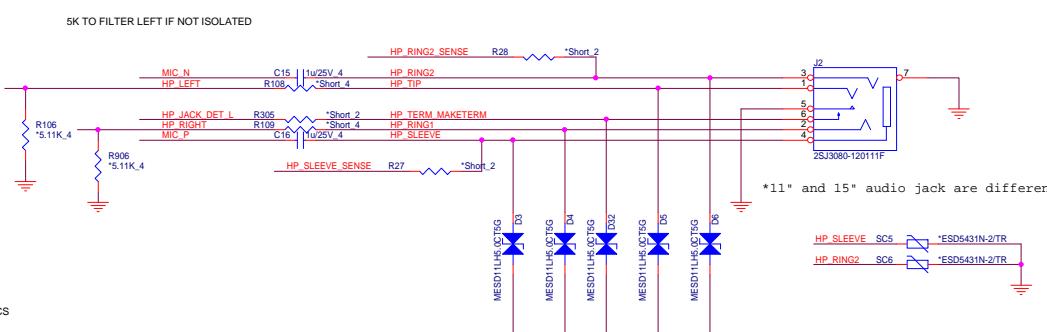
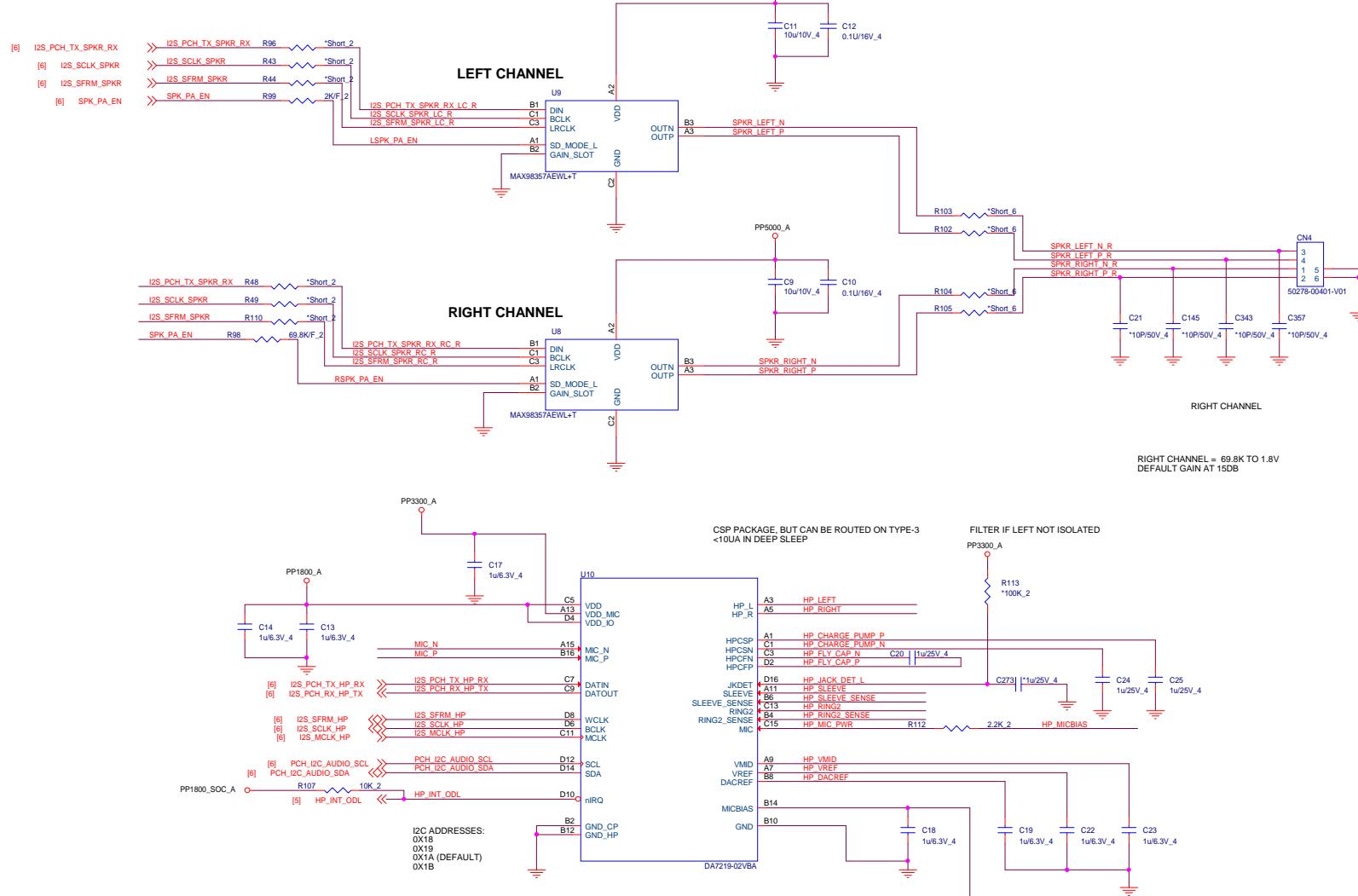
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32 GB EMMC SD STORAGE

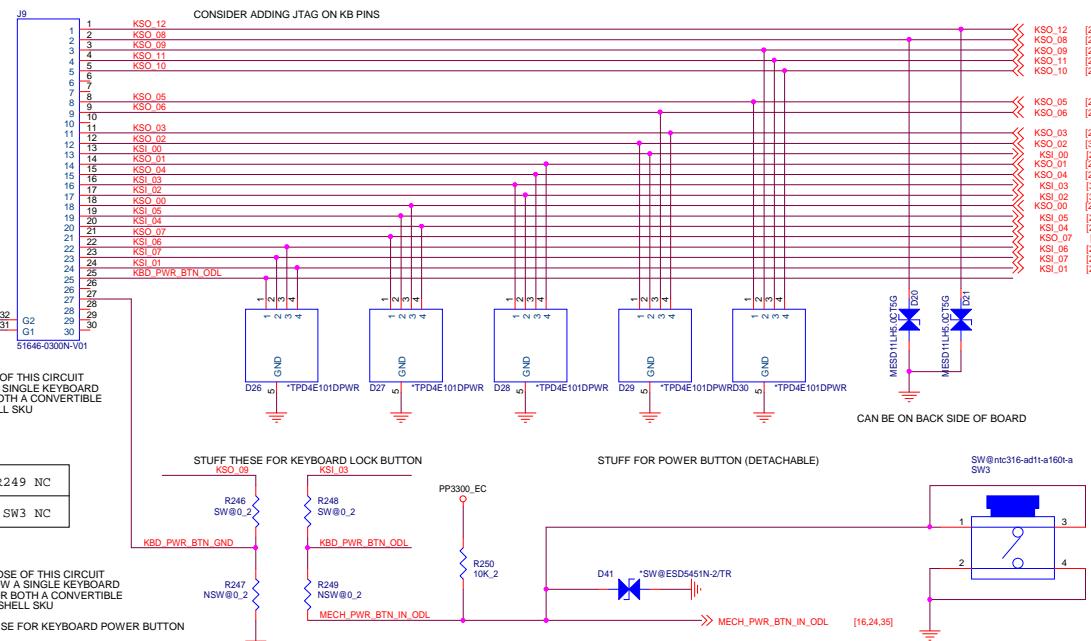
150 UA SLEEP CURRENT



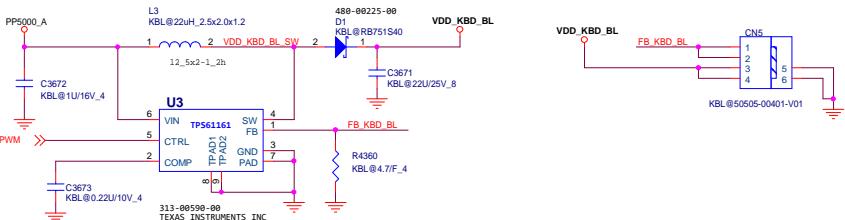


AMBIENT TEMPERATURE SENSOR SHOULD BE PLACED NEAR HEADPHONE JACK, AWAY FROM IC'S
DO NOT CHANGE THERMISTOR TYPE

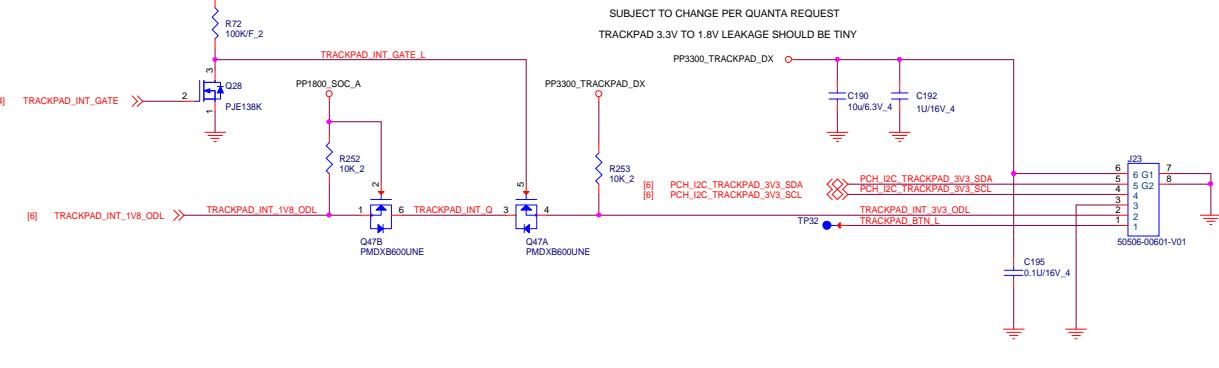
BSW REF DESIGN ERRATA MENTIONED
A LEAKAGE PROBLEM INTO THE EC
VIA THE KBD PWR_BTN ODL
TO ADD 100K PULLUPS TO J3PA, EC
ON THE KSO SIGNALS
0C2A COMPATIBLE



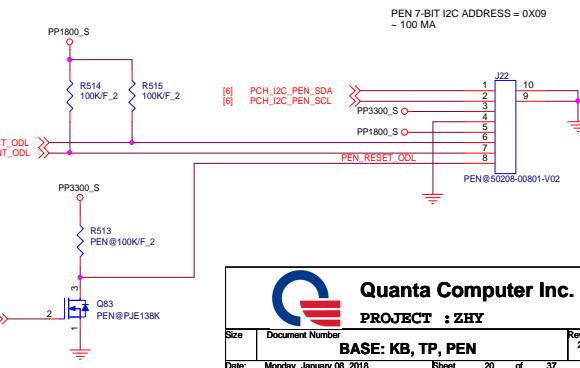
KB BACKLIGHT



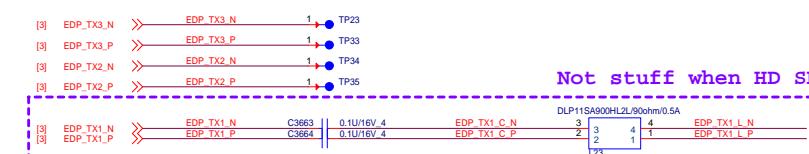
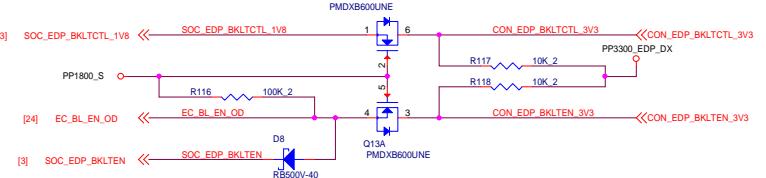
TRACKPAD CONNECTOR



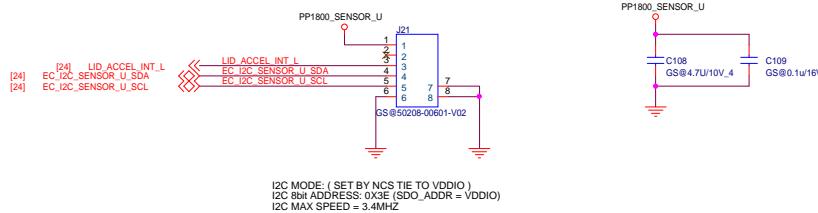
PEN CONNECTOR



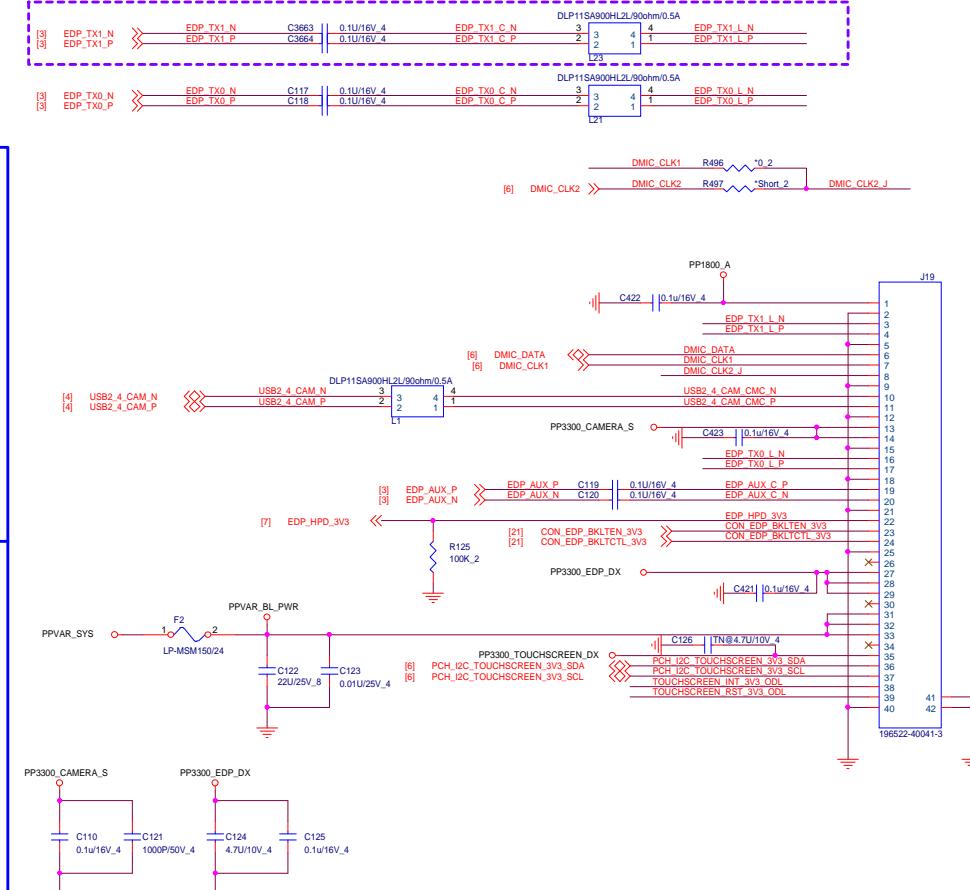
EDP2-EDP3 DOES NOT NEED TO ROUTE TO CONNECTOR



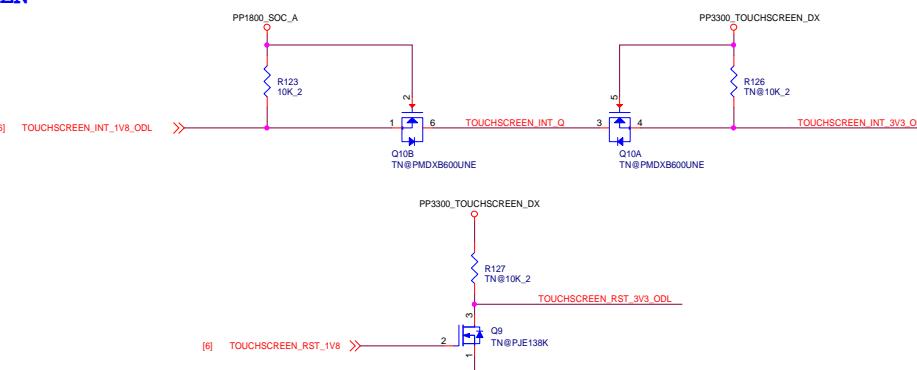
SENSOR BOARD (KX022)



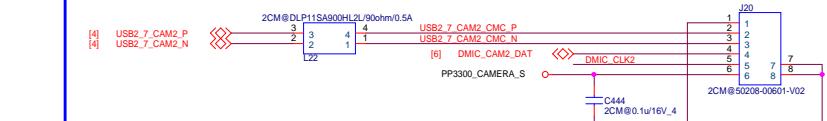
NOTE: SEE WHITE PAPER ON ACCEL PLACEMENT FOR CONVERTIBLES



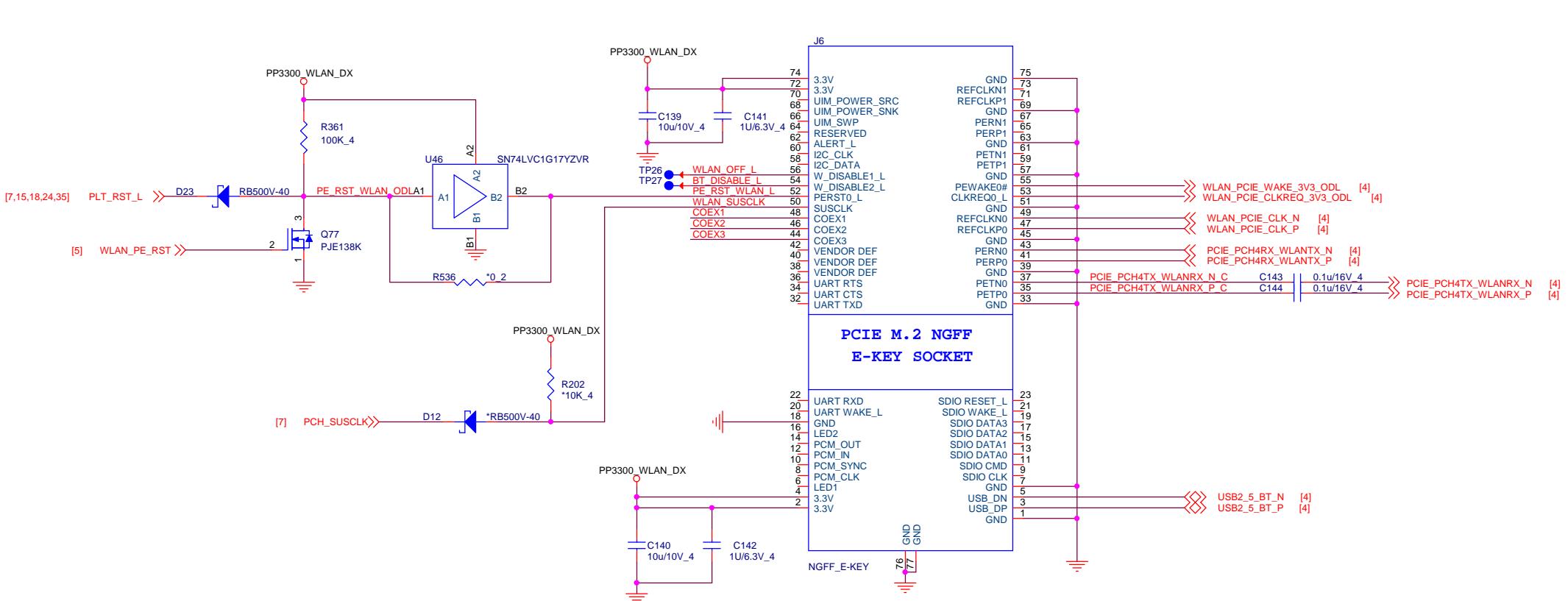
TOUCH SCREEN



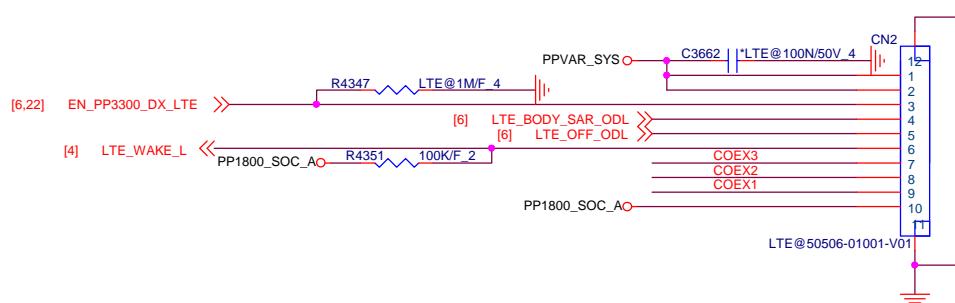
C-PANEL CAMERA

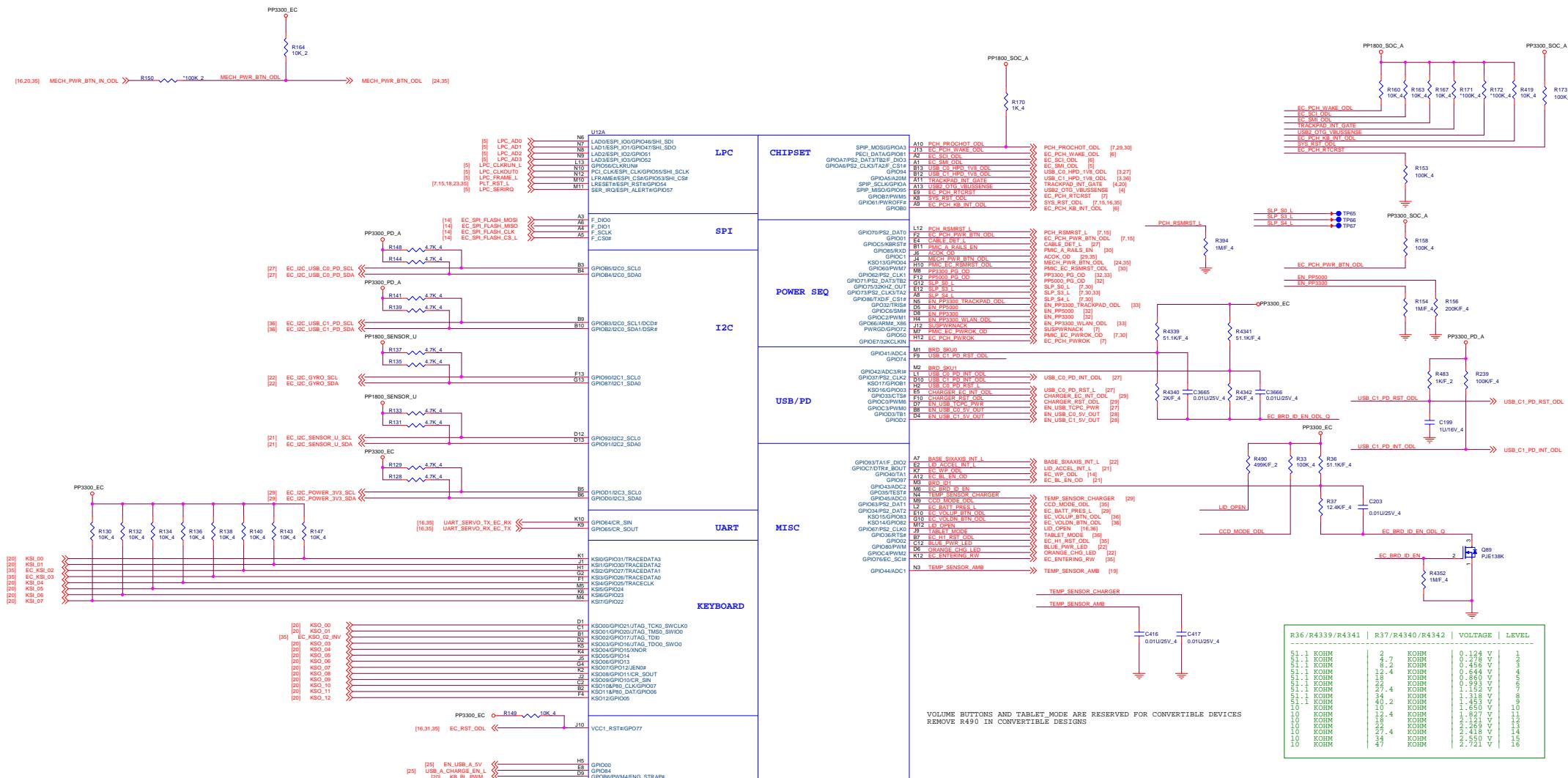


M.2 connector

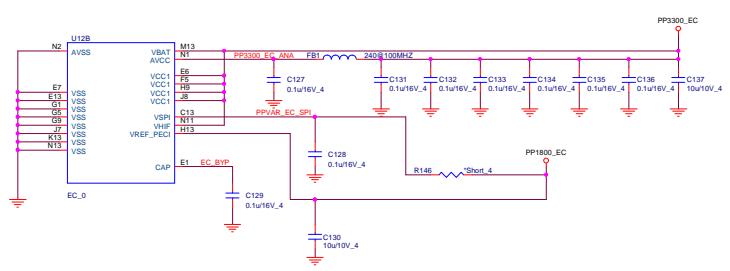


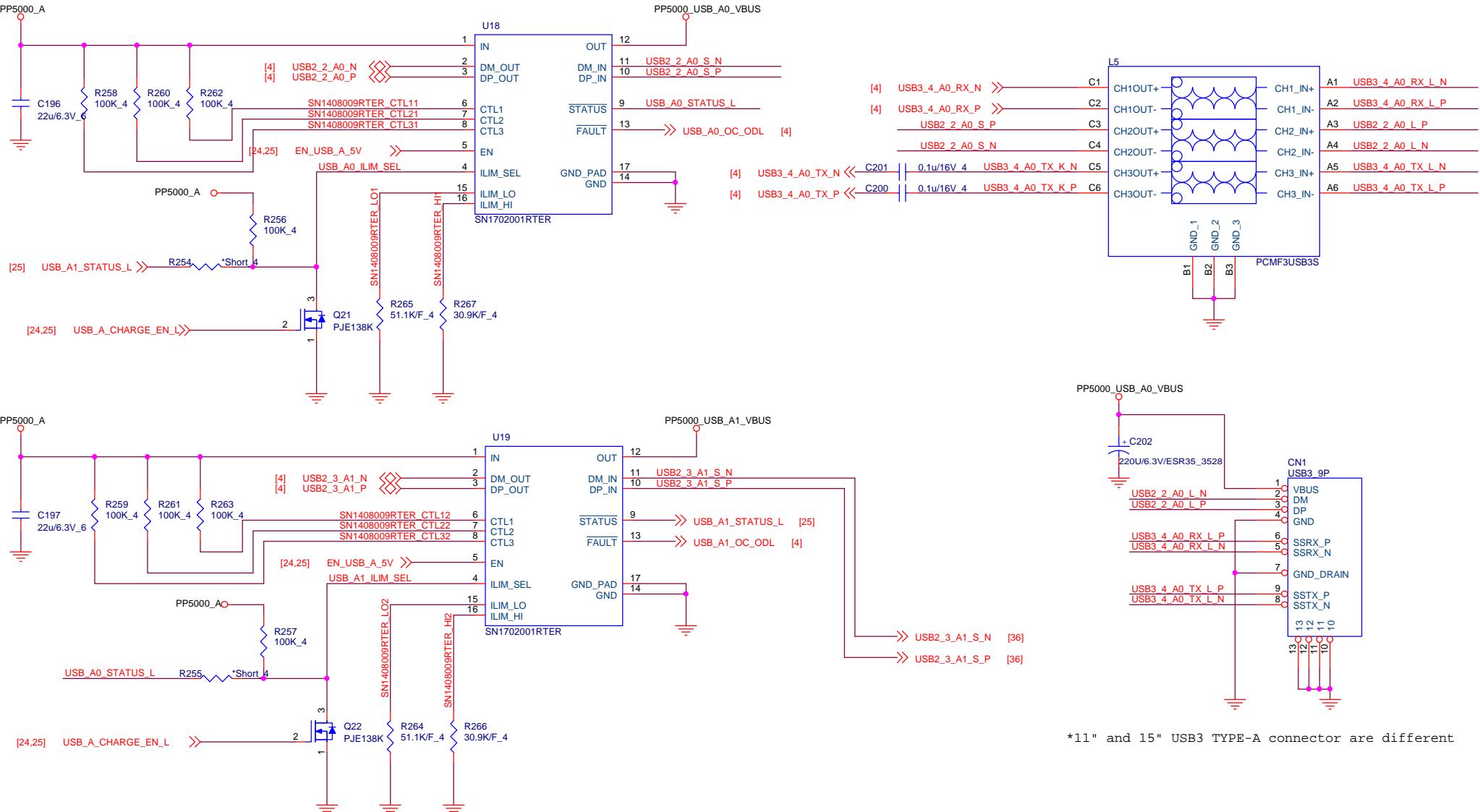
To LTE/B connector



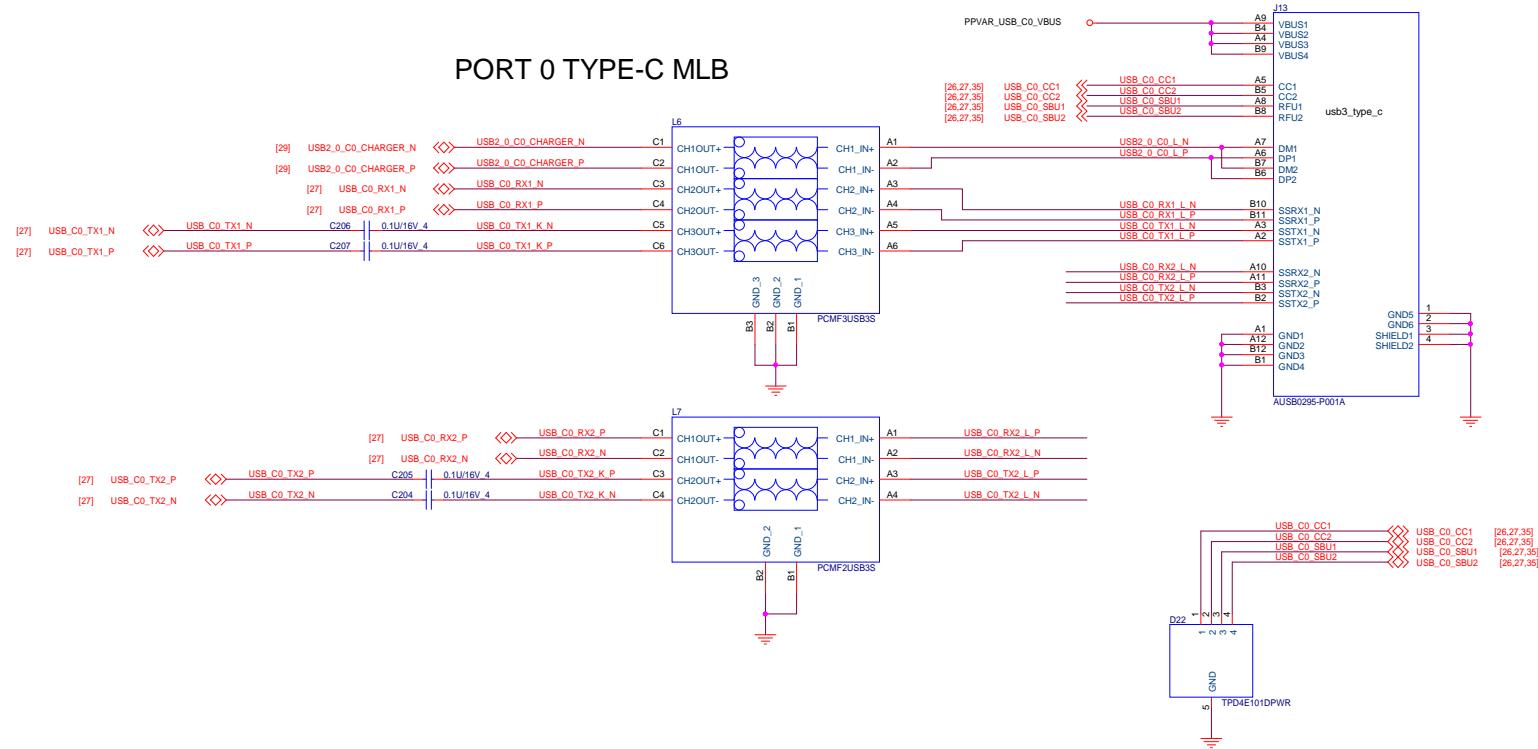


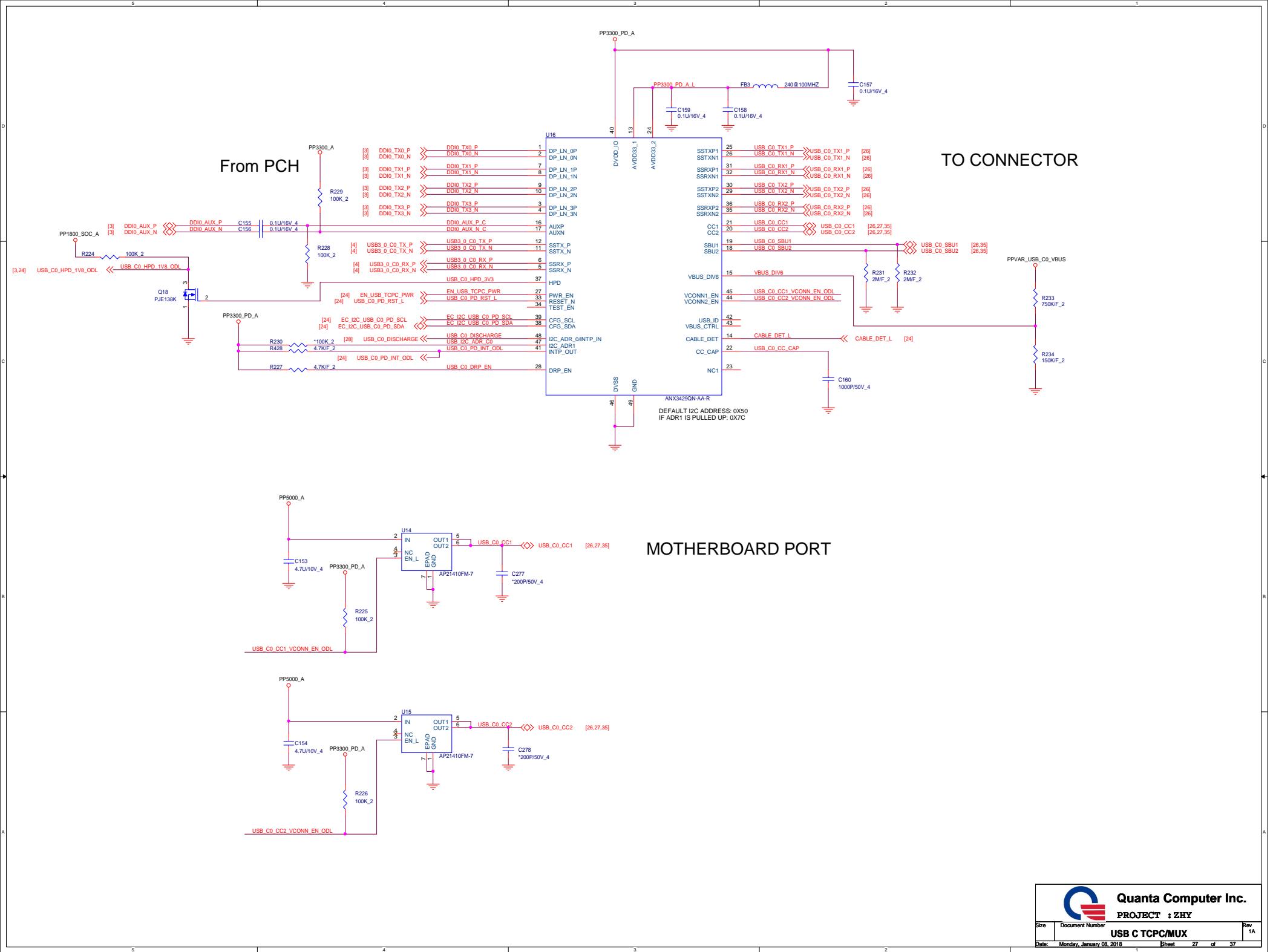
R36 / R4339 / R4341	R37 / R4340 / R4342	VOLTAGE	LEVEL
S1..1 KOHM	2 KOHM	0.134 V	1
S1..1 KOHM	8.7 KOHM	0.456 V	3
S1..1 KOHM	8.2 KOHM	0.456 V	3
S1..1 KOHM	1.8 KOHM	0.860 V	9
S1..1 KOHM	1.8 KOHM	0.860 V	9
S1..1 KOHM	2.7 KOHM	1.262 V	9
S1..1 KOHM	2.4 KOHM	1.262 V	9
S1..1 KOHM	4.2 KOHM	1.348 V	8
10 KOHM	10.2 KOHM	1.650 V	10
10 KOHM	1.6 KOHM	2.123 V	12
10 KOHM	1.6 KOHM	2.123 V	12
10 KOHM	2.7 KOHM	2.418 V	14
10 KOHM	2.7 KOHM	2.418 V	14
10 KOHM	4.7 KOHM	2.721 V	16
10 KOHM	4.7 KOHM	2.721 V	16





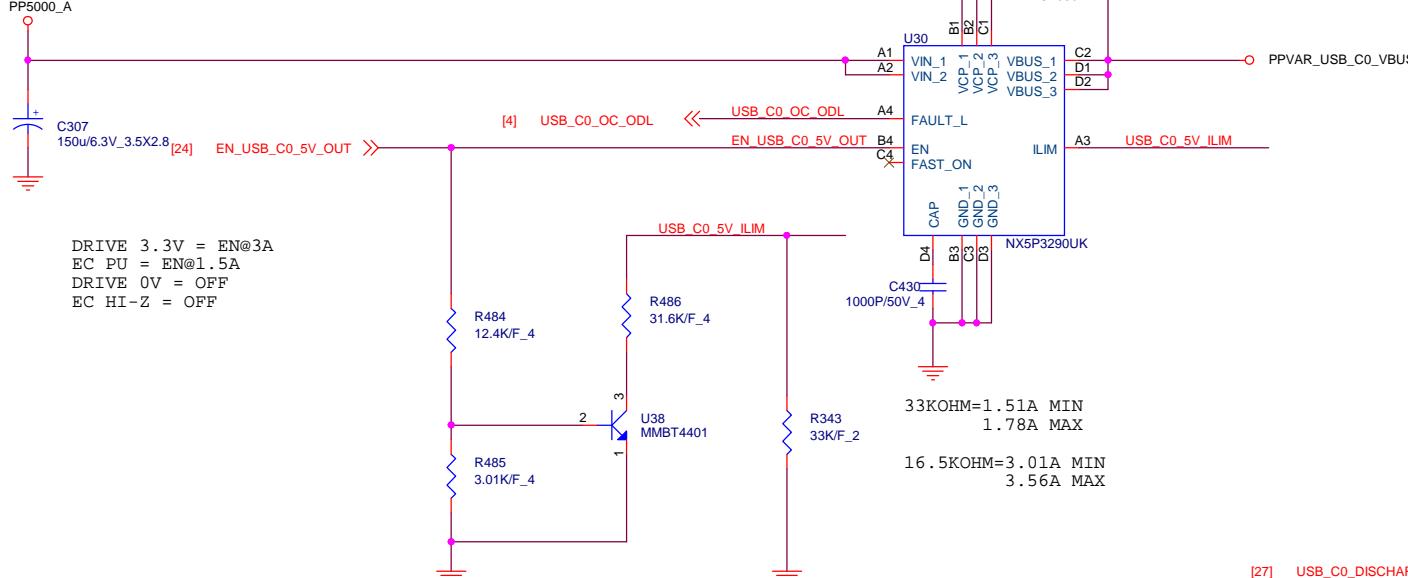
*11" and 15" USB3 TYPE-A connector are different



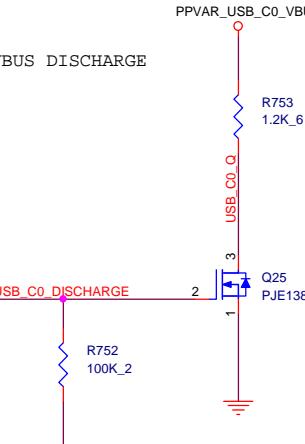


PORT 0

PROVIDES ESD PROTECTION, PLACE CLOSE TO CONNECTOR



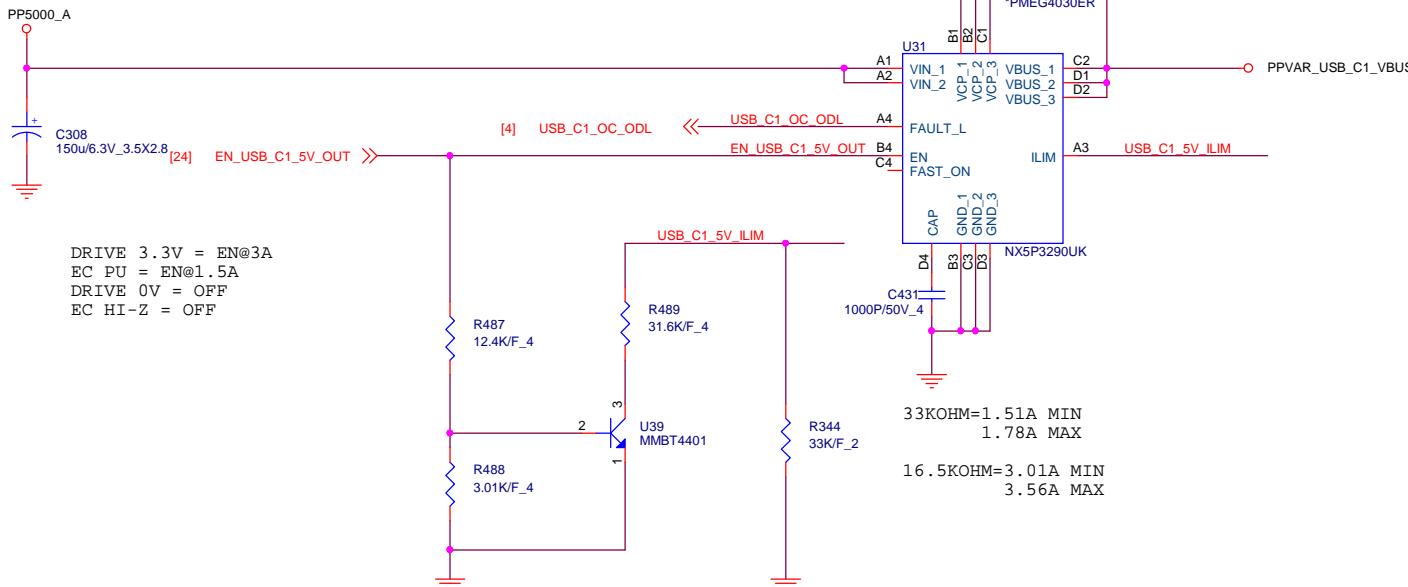
PPVAR_USB_C0_VBUS
VBUS DISCHARGE



20UF LOAD, 21V TO <0.8V IN <80MS
20UF LOAD, 5V TO <0.8V IN <45MS
0402 CAN DISSIPATE 400MW FOR 80MS
0603 CAN DISSIPATE 400MW FOR 500MS
0805 CAN DISSIPATE 400MW FOR 2000MS

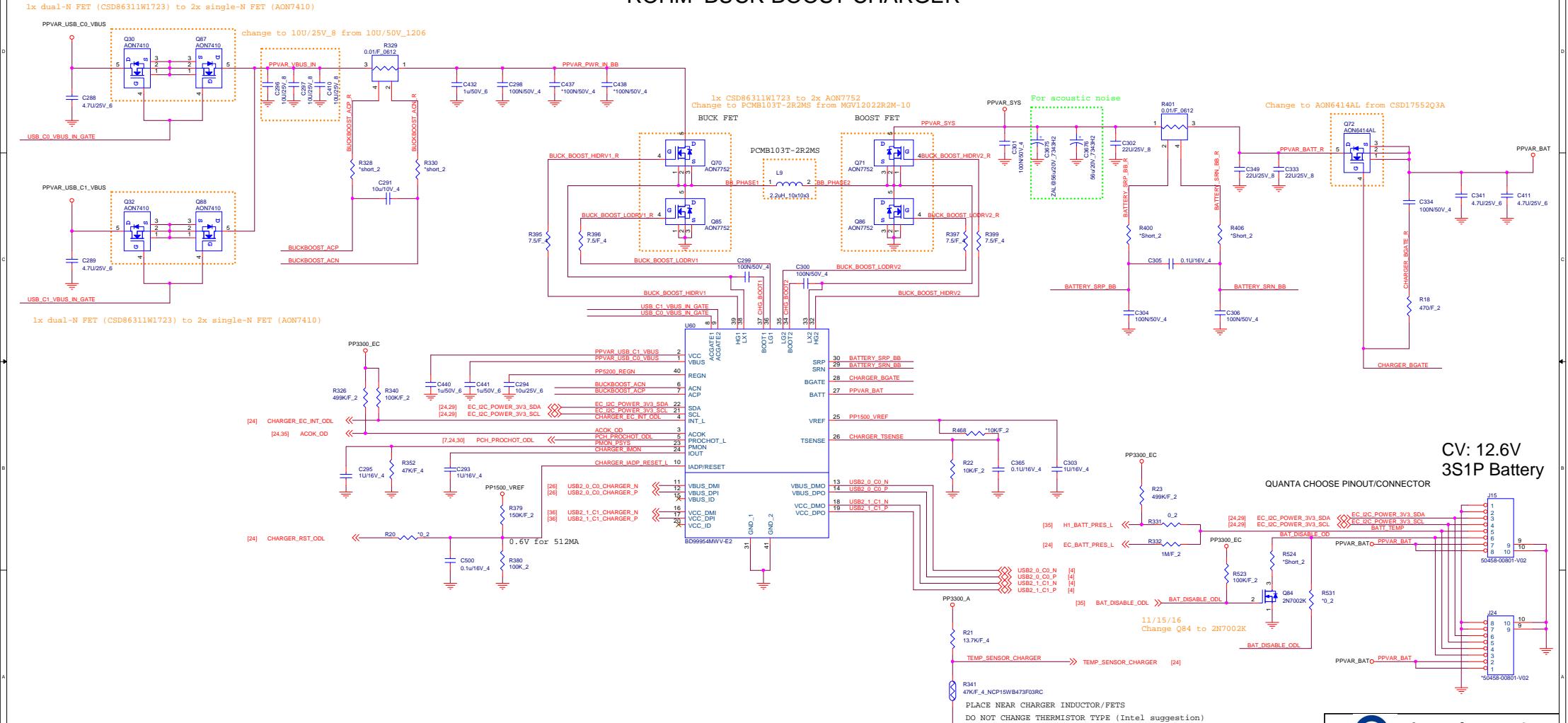
PORT 1

PROVIDES ESD PROTECTION, PLACE CLOSE TO CONNECTOR



ROHM BUCK-BOOST CHARGER

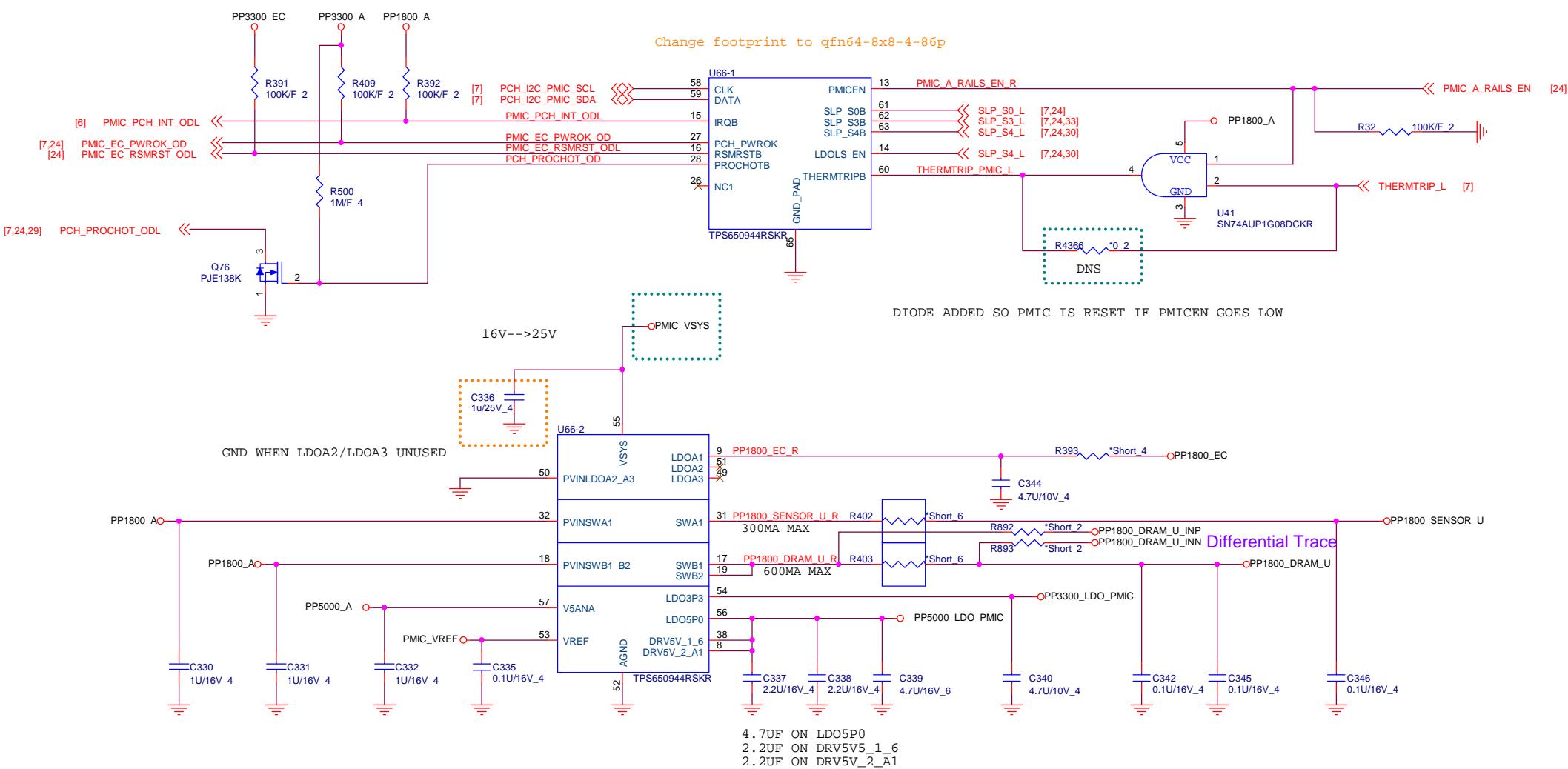
POWER - BATTERY CHARGER



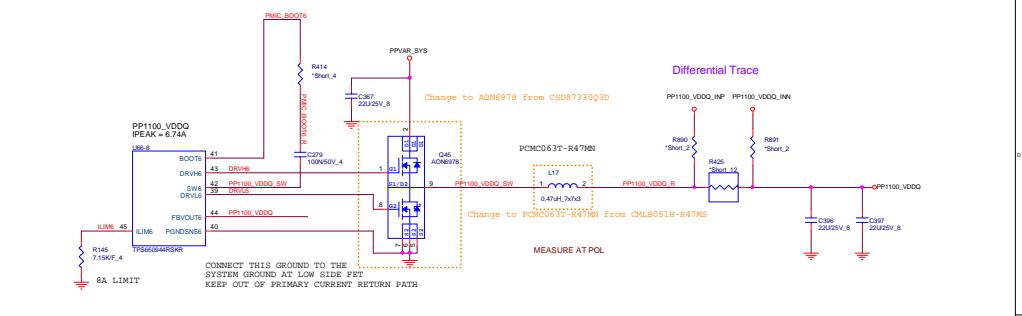
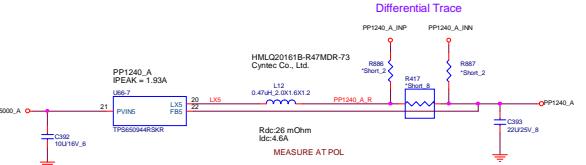
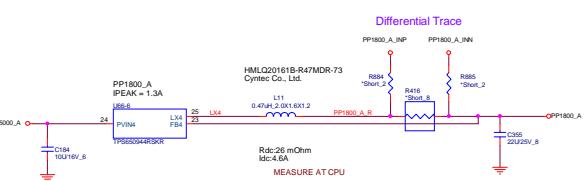
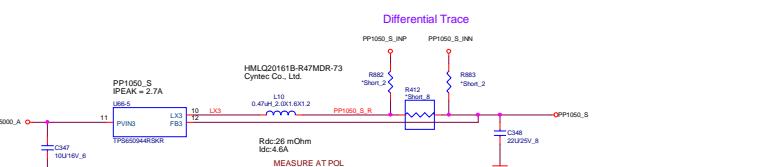
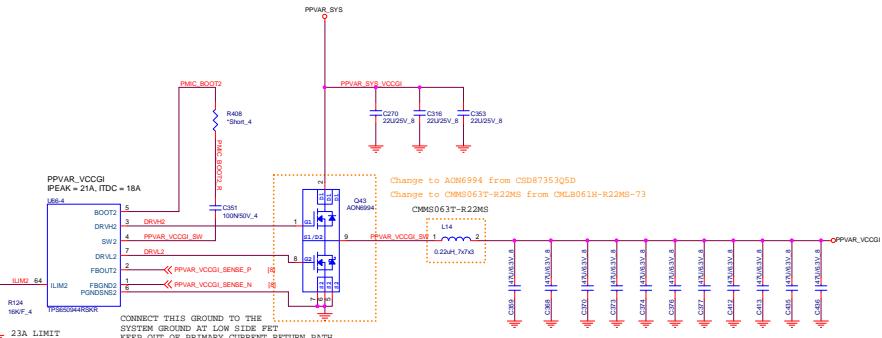
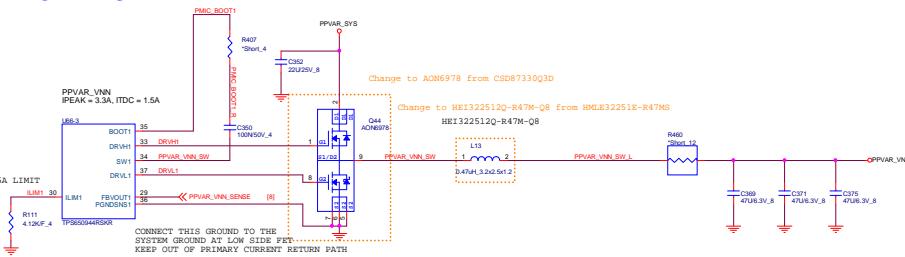
	Quanta Computer Inc.
Size	Document Number
Rev 3A	PROJECT : ZHY

POWER - BATTERY CHARGER Date: Monday, January 08, 2018 Sheet 29 of 37

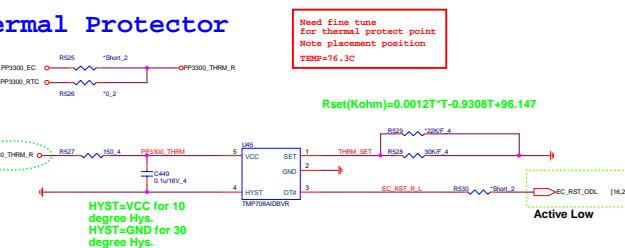
POWER - PMIC LOGIC



POWER - PMIC RAILS



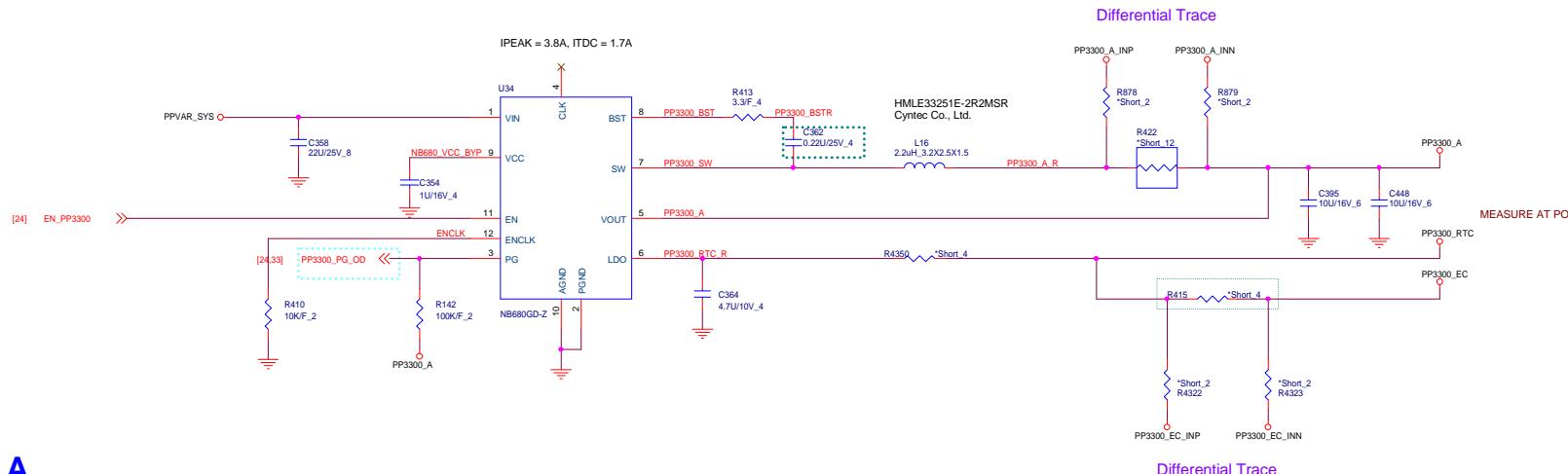
Thermal Protector



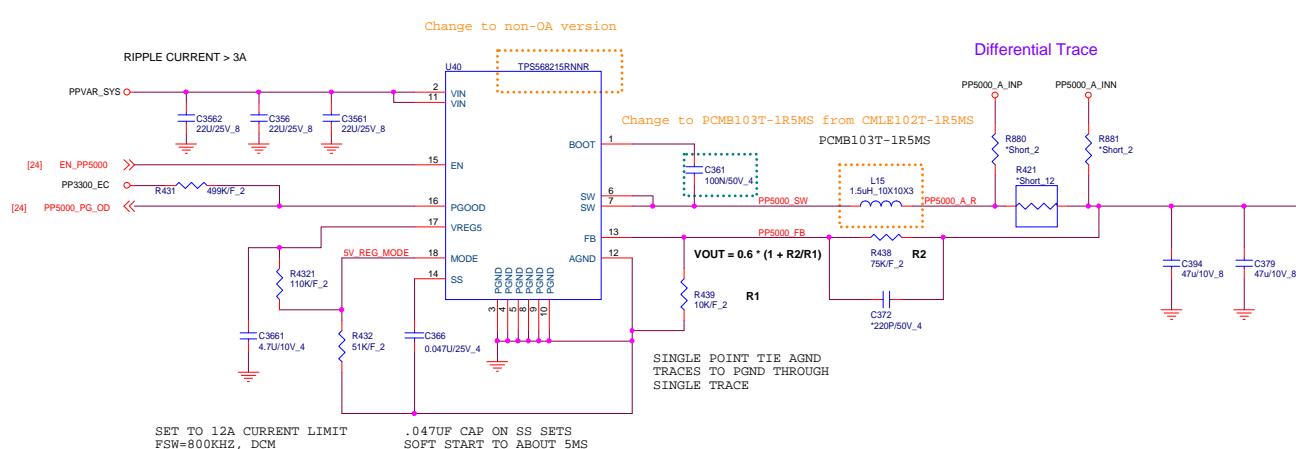
PMIC_VSYS



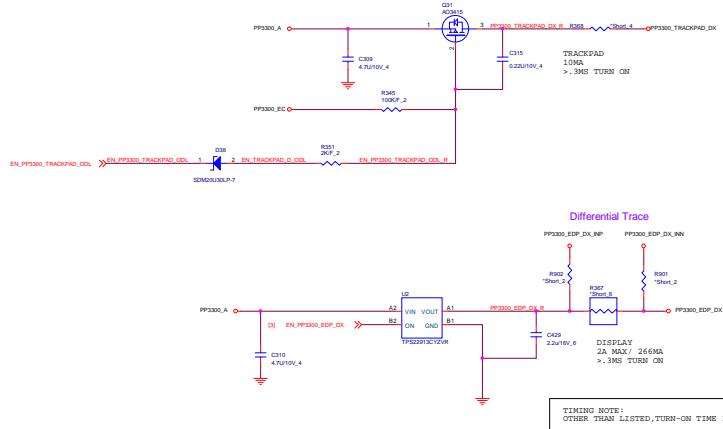
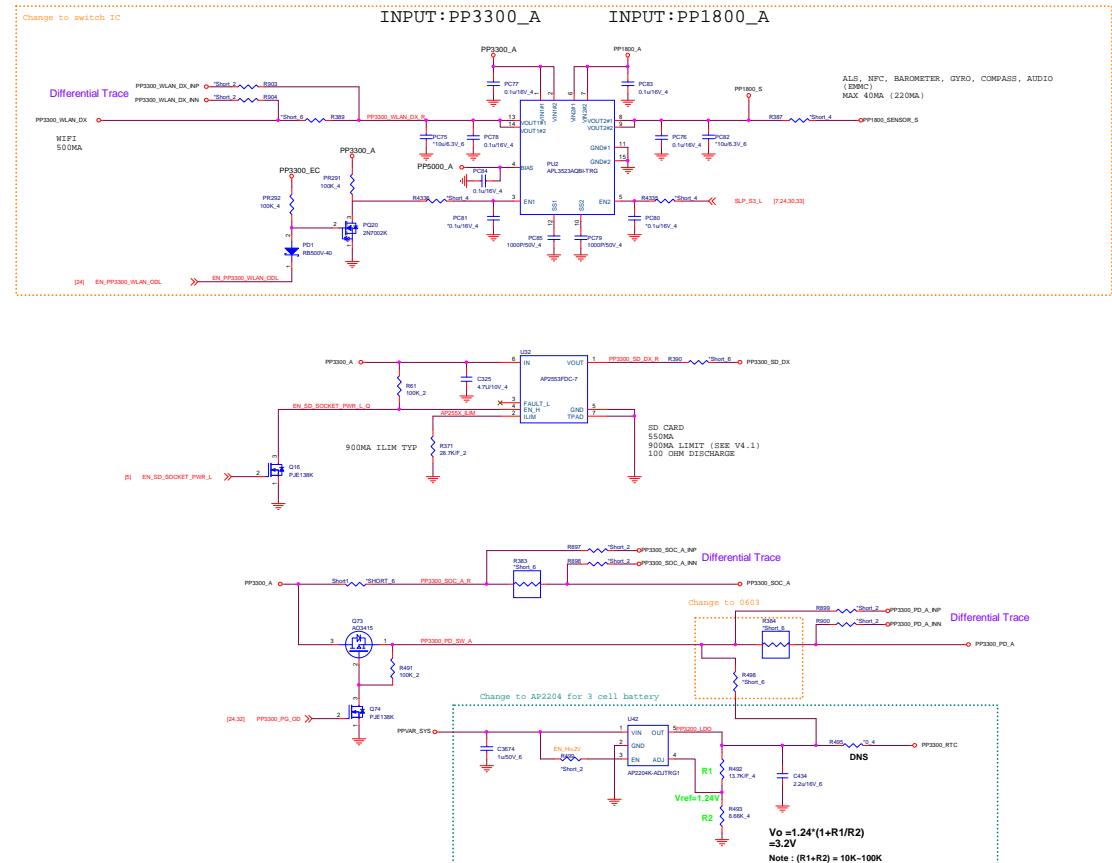
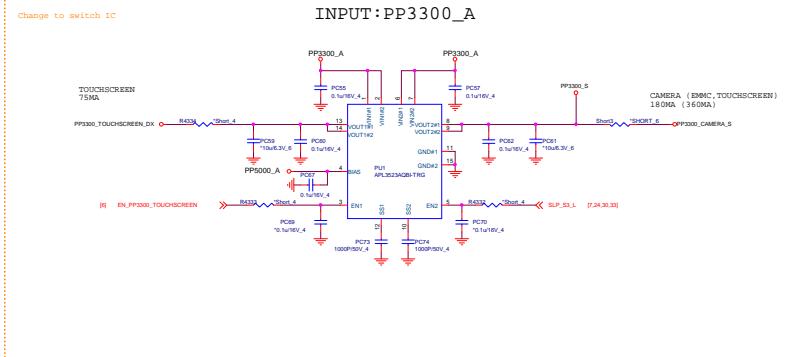
PP3300_A



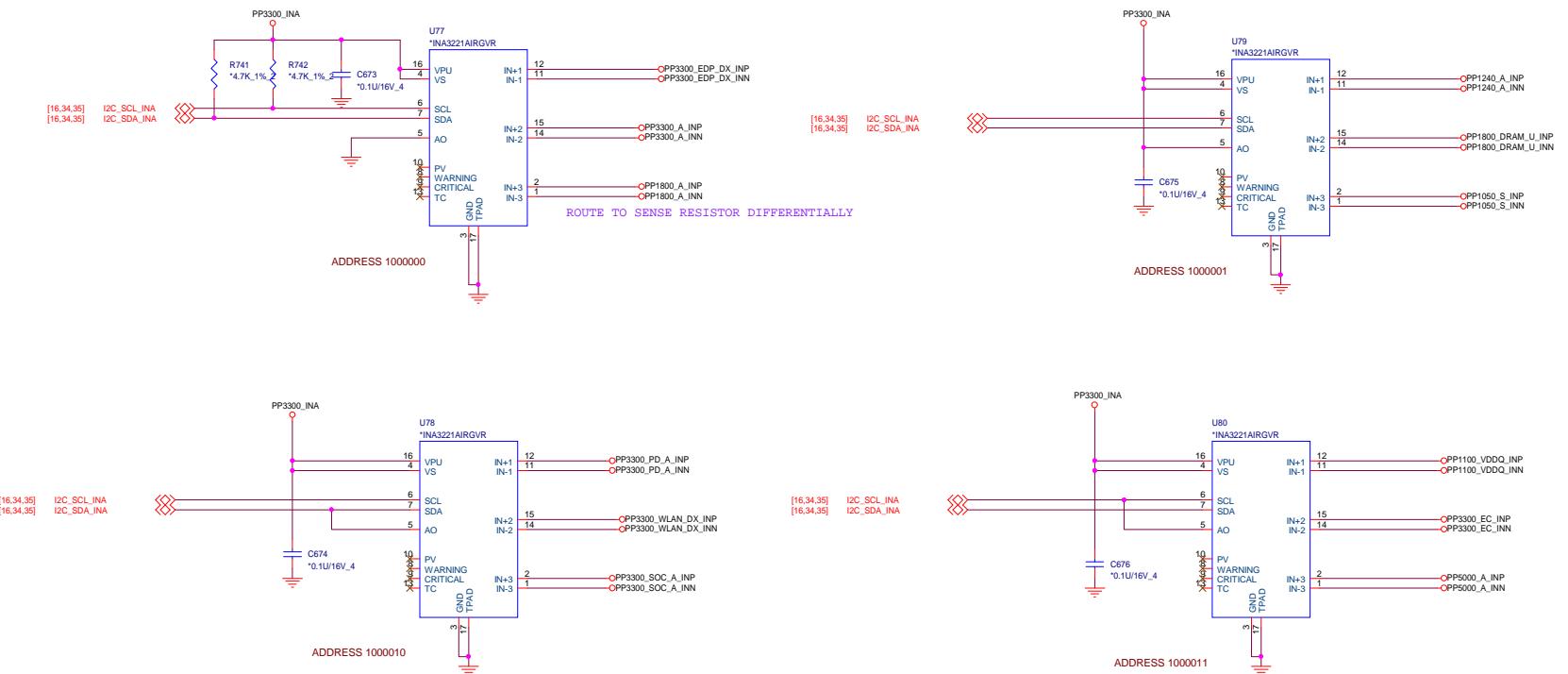
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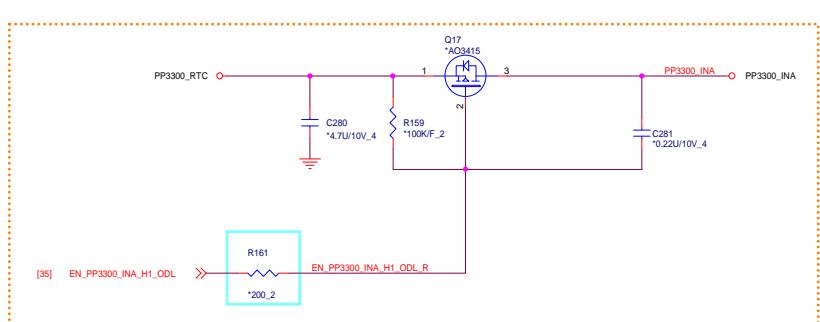
POWER - LOAD SWITCHES



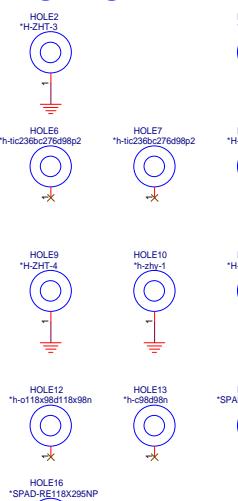
INAs



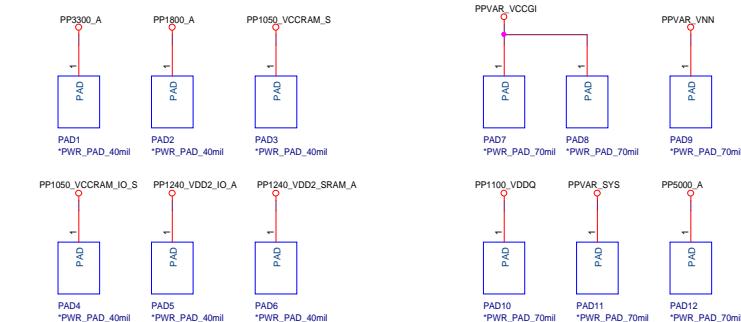
INAs power

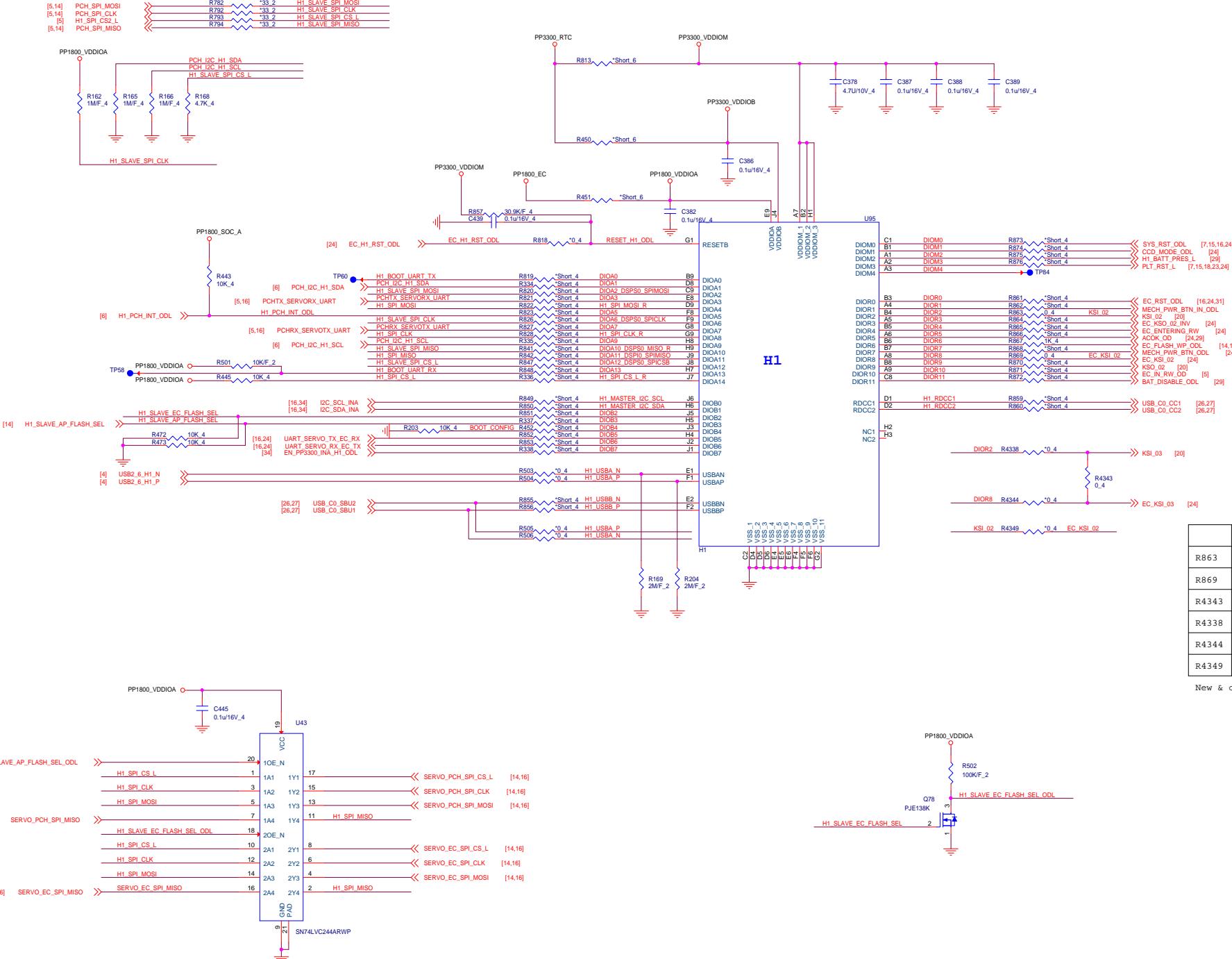


HOLES



POWER TEST PAD

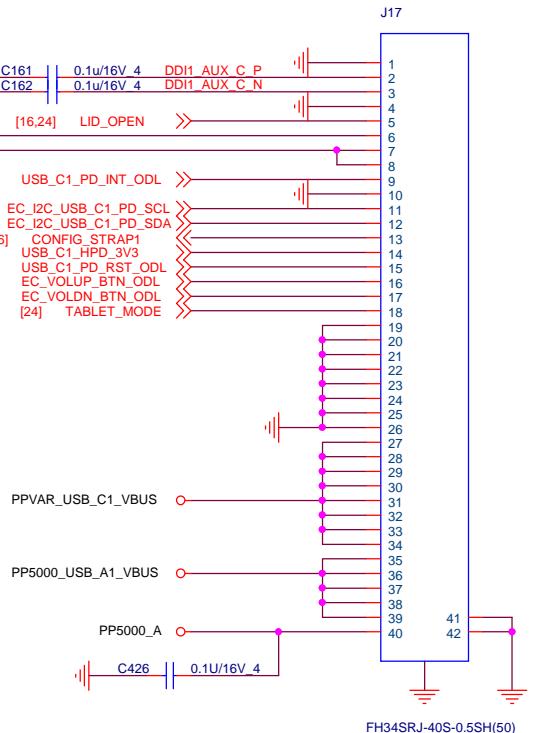




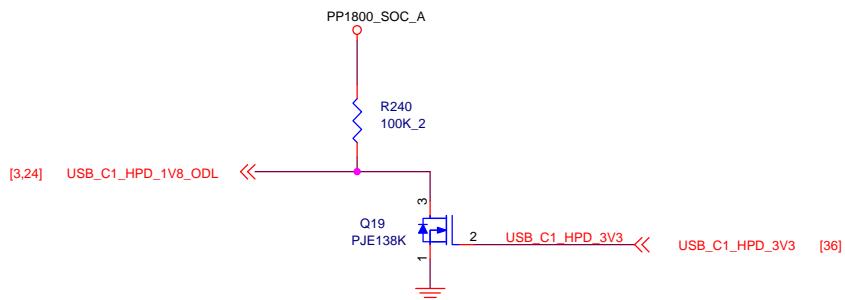
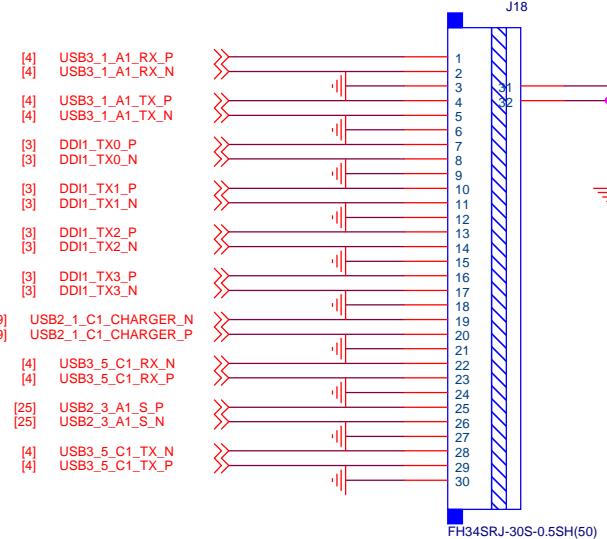
PP3300_A
R236
100KF_4
DDI1_AUX_C_N
DDI1_AUX_C_P
R235
100KF_4
PP3300_RTC
PP3300_PD_A
C424
0.1u/16V_4
C425
0.1u/16V_4

Low-speed connector

CONFIG_STRAP1		
Float	DB USBC	
H	DB USBC+LTE	
L	DB USBC+USBA	



High-speed connector



Model	Version	CHANGE LIST
ZHY	3A	<p>2017/12/19 page 6 Change Q91 to PMDXB600UNE, add R4368 for LTE EN_PP3300_DX_LTE signal glitch issue page 21 Change R497 to short pad page 35 Change R875,R450,R813 to short pad page 29 Change value to 10u/25V_8 for C296,C297,C410 page 30 Change R393,R402,R403 to short pad page 31 Change R460,R412,R416,R417,R425,R530,R4365 to short pad page 32 Change R422,R4350,R415,R421 to short pad page 33 Change R4334,R4333,R4332,R4336,R4335,R383,R381,R367,R499 to short pad Change R498,R384 to short pad page 34 DNS all INAs and INAs power</p> <p>2017/12/20 page 29 Add C3675,C3676 (56uF/20V/7343) on PPVAR_SYS for acoustic noise. page 31 Remove PU15,R4364,PR191,PR189,PR188,R4363,PC197,PC195.</p> <p>2017/12/29 page 29 Stuff C3676 for all project,stuff C3675 for Astronaut project only</p> <p>2018/1/3 page 24 Change R37 to 12.4Kohm for PVT</p>