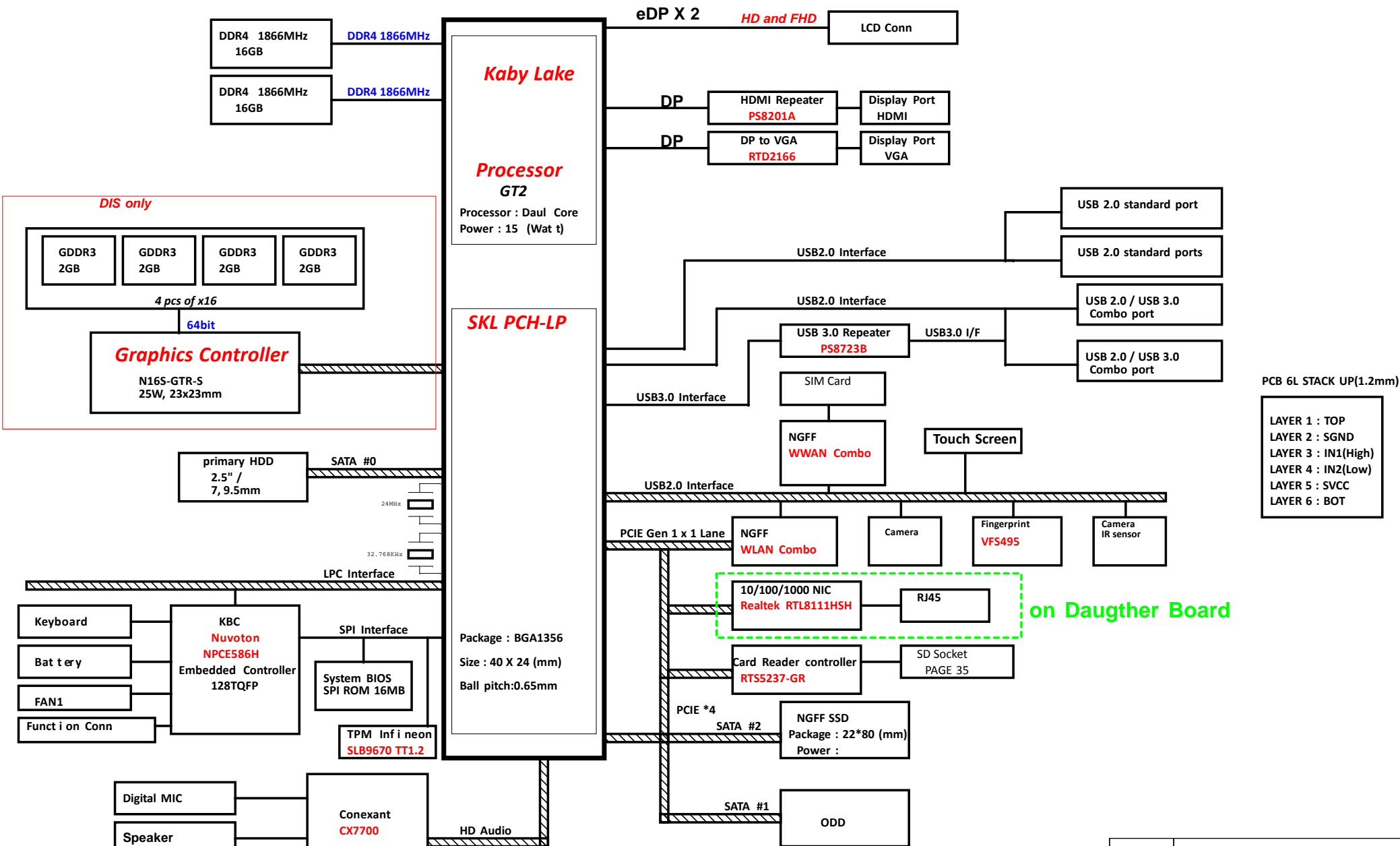
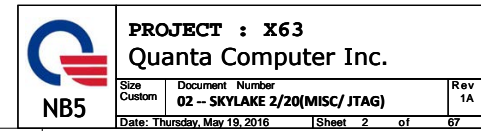
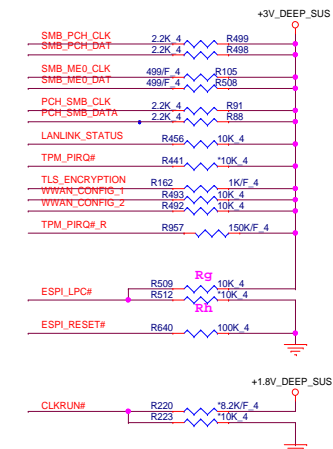


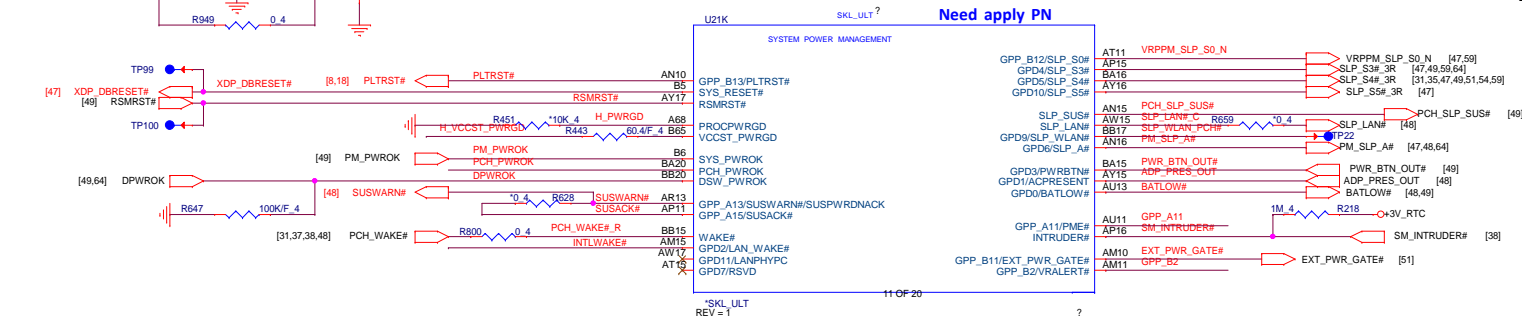
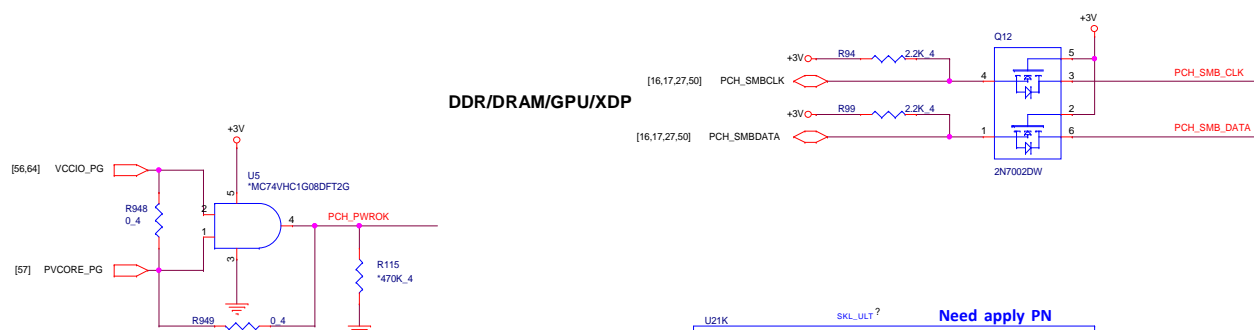
2015 400 series Kaby Lake 15"/ 17" (UMA/DIS) Block Diagram 01



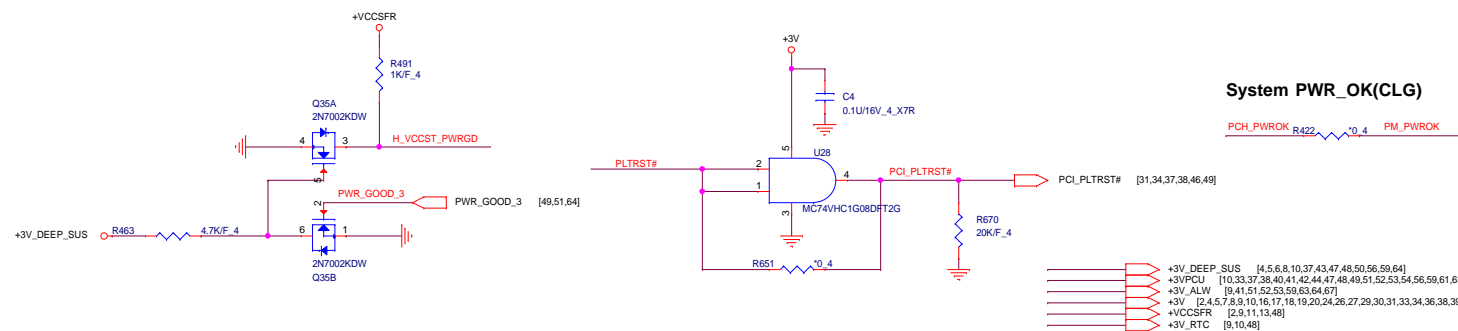
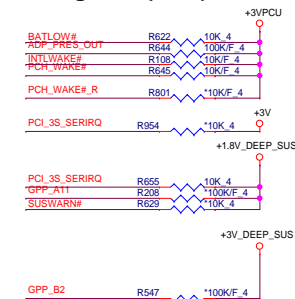




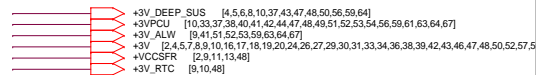
LPC & ESPI TABLE		
	LPC MODE	ESPI MODE
R660	Ra 0Ω	15Ω
R662	Rb 0Ω	15Ω
R661	Rc 0Ω	15Ω
R646	Rd 0Ω	15Ω
R653	Rf UNINSTAL	INSTAL
R509	Rg UNINSTAL	INSTAL
R512	Rh INSTAL	UNINSTAL



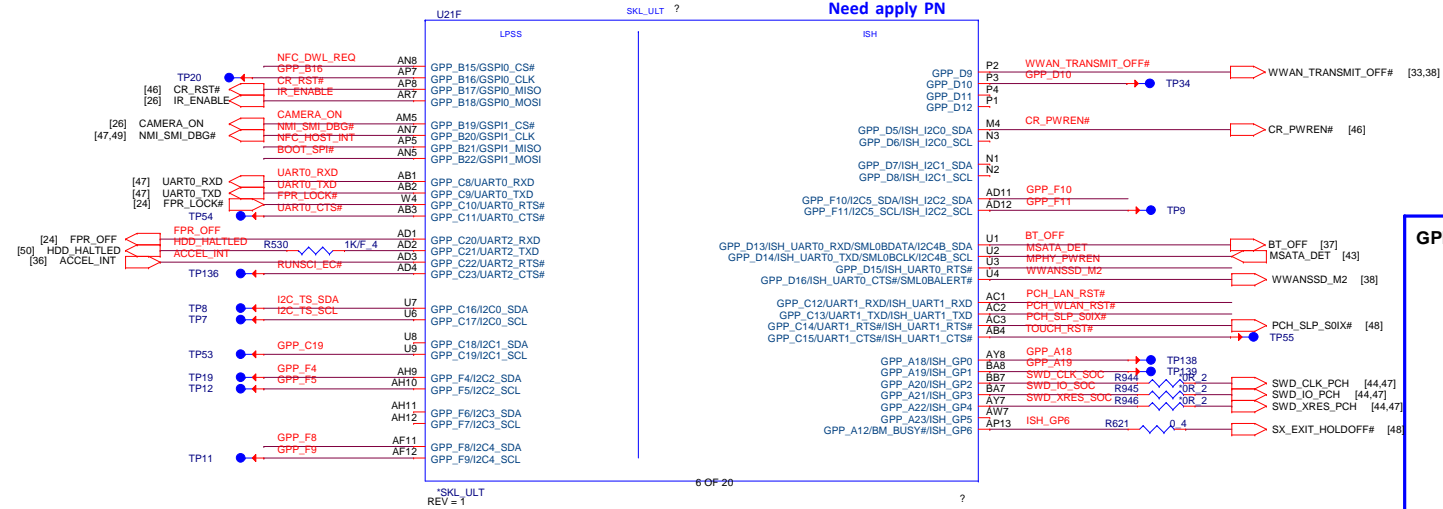
PCH Pull-high/low(CLG)



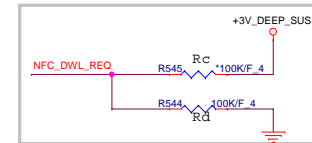
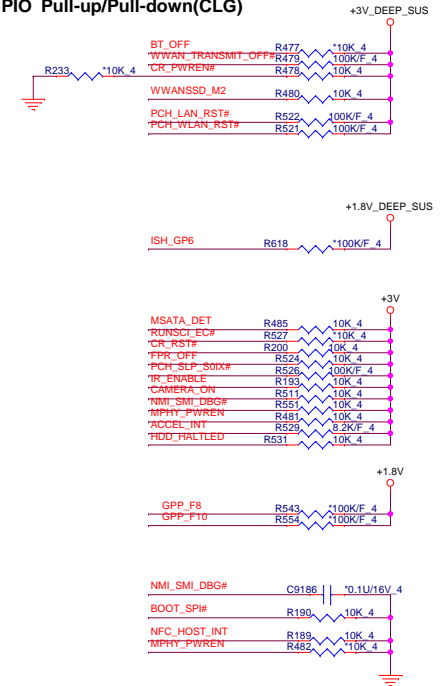
System PWR_OK(CLG)



Skylake (GPIO)



GPIO Pull-up/Pull-down(CLG)



Conexant CX7501 & CX7700 TABLE (SI stage)

	CX7501	CX7700
Rc	UNINSTALL	INSTALL
Rd	INSTALL	UNINSTALL

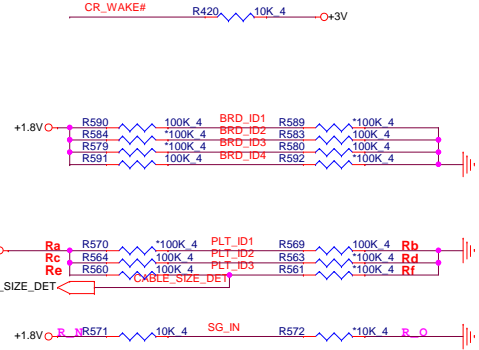
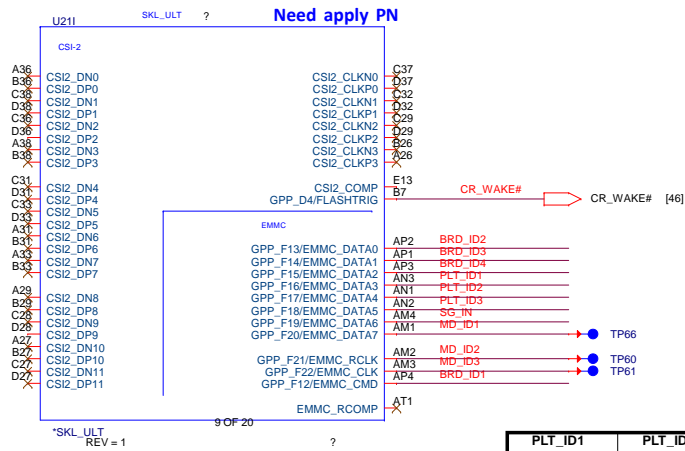
+1.8V [5,8,30,55,64]
+3VPCU [3,10,33,37,38,40,41,42,44,47,48,49,51,52,53,54,56,59,61,63,64,67]
+3V_DEEP_SUS [3,5,6,8,10,37,43,47,48,50,56,59,64]
+3V [2,3,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,42,43,46,47,48,50,52,57,59,60,64,67]



PROJECT : X63
Quanta Computer Inc.

Size Custom	Document Number 04 - SKYLAKE (GPIO)	Rev 1A
Date: Thursday, May 19, 2016	Sheet 4 of 67	

	BRD_ID1	BRD_ID2	BRD_ID3	BRD_ID4	
	GPIO201	GPIO202	GPIO203	GPIO204	AMD_FCH
	GPIO14	GPIO34	GPIO35	GPIO40	PPMT
	GPIO15	GPIO34	GPIO35	GPIO40	LPI-H
BOARD REVISION	GPIO76	GPIO77	GPIO78	GPIO79	LPT-LP
DB0	0	0	0	0	
DB1	0	0	0	1	
DB2	0	0	1	0	
	0	1	1	1	
SI	0	1	0	0	
SIB	0	1	0	1	
SI2	0	1	1	0	
	0	1	1	1	
Pre-PV	1	0	0	0	
PV	1	0	0	1	
	1	0	1	0	
	1	0	1	1	
MV1	1	1	0	0	
	1	1	0	1	
	1	1	1	0	
	1	1	1	1	



PLT_ID1	PLT_ID2	PLT_ID3	
Ra	Rc	Re	H
Rb	Rd	Rf	L
0	0	0	13.3"
0	0	1	14"
0	1	1	15.6"
0	1	1	17.3"

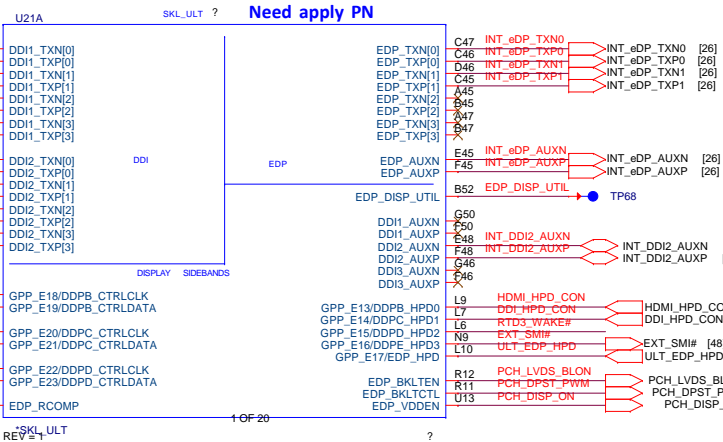
SG_IN	Install	Un-Install
UMA	R572 R_O	R571 R_N
DIS	R571 R_N	R572 R_O

Cable detect

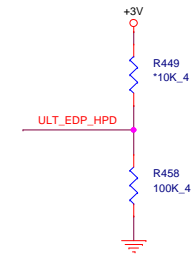
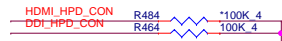
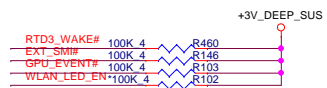
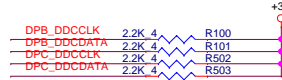
HDMI

VGA

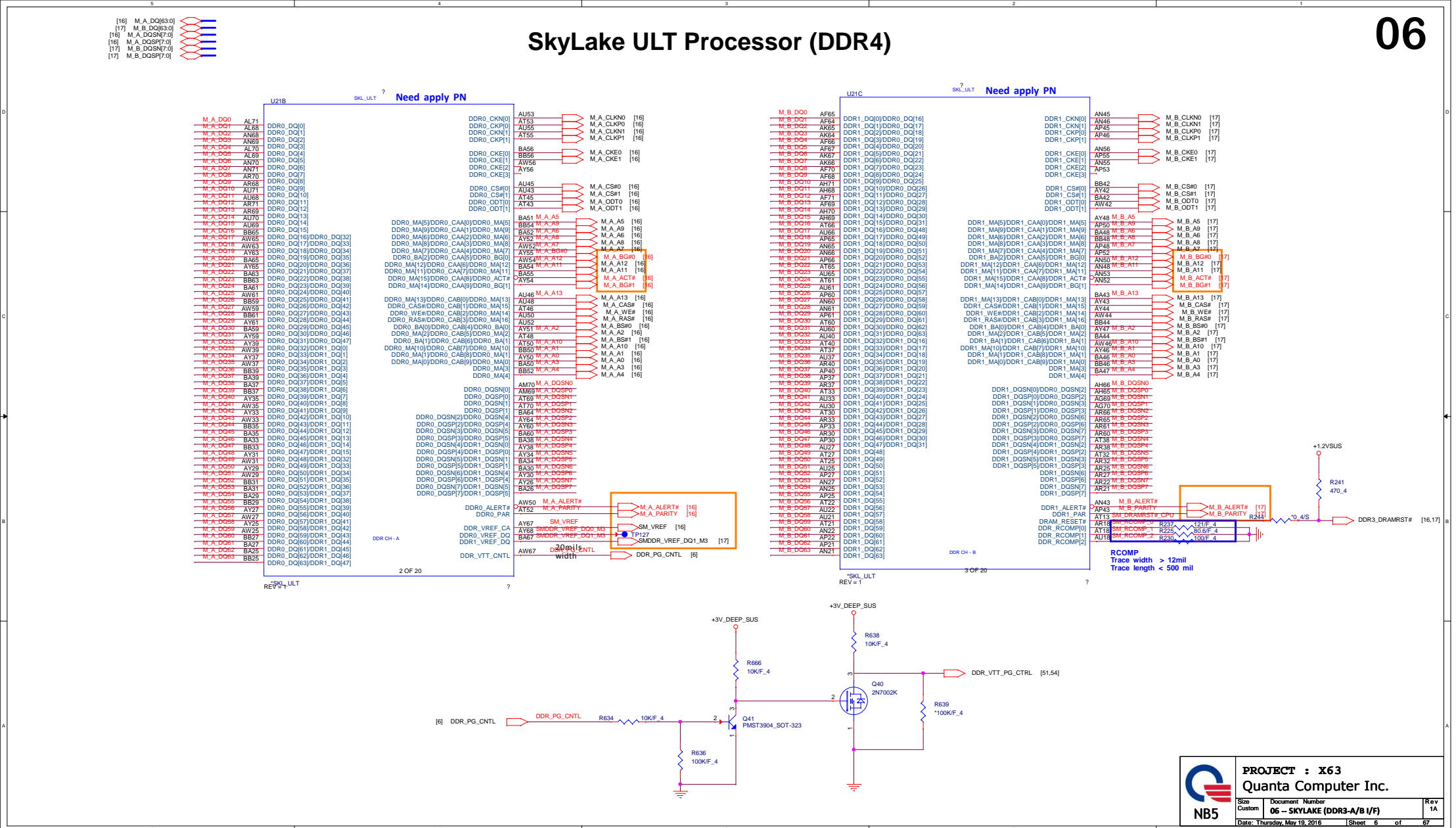
eDP_COMPIO and ICOMPO signals should be shorted near balls and routed with typical impedance <25 mohms

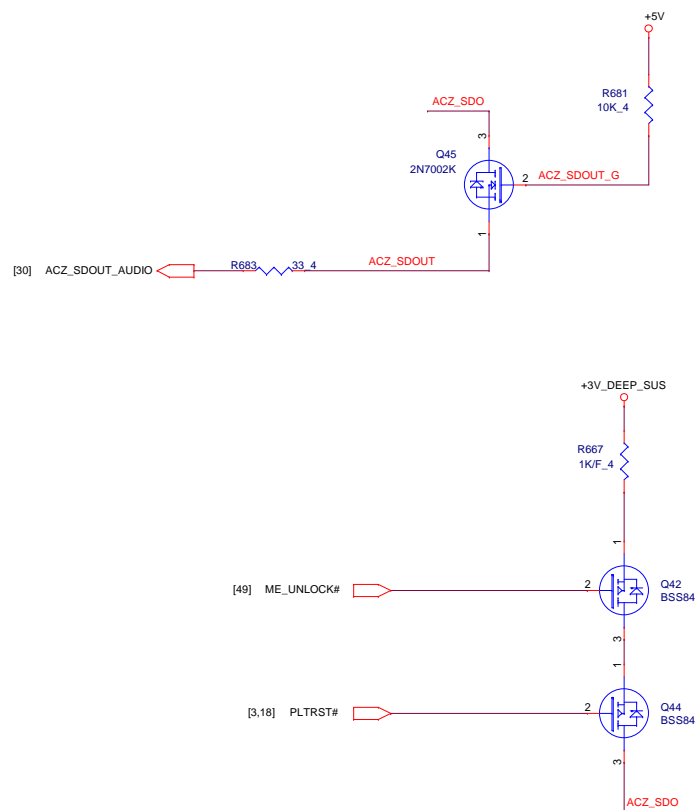


eDP



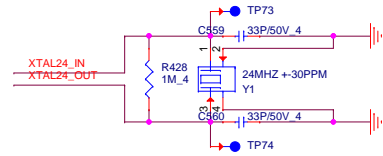
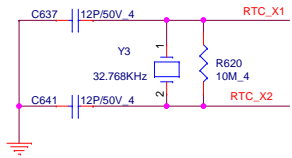
SkyLake ULT Processor (DDR4)



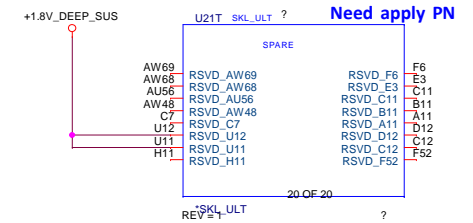
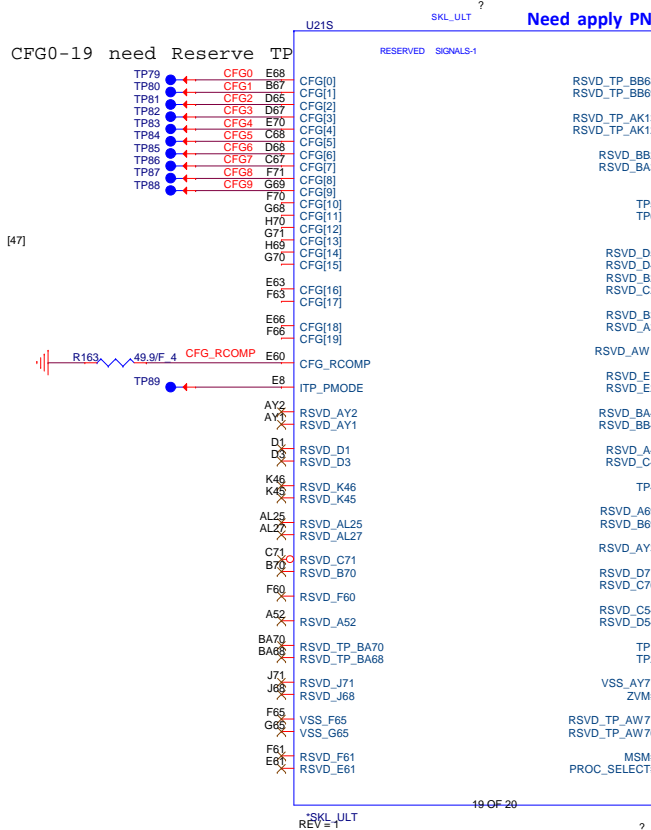
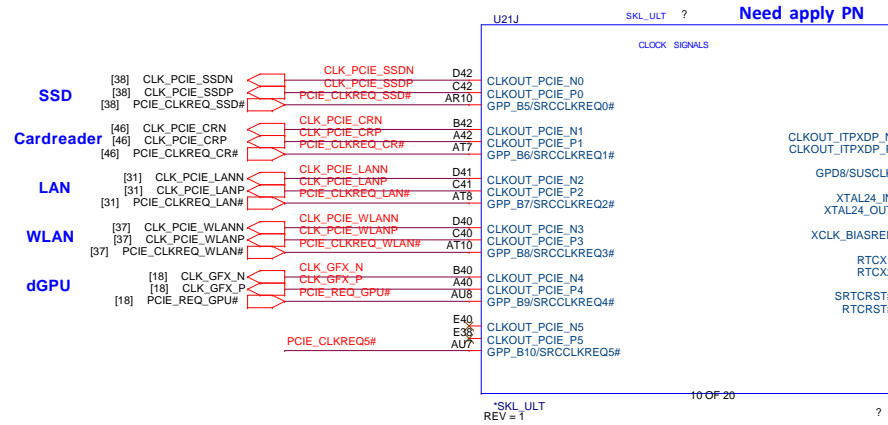
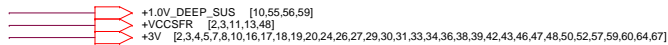
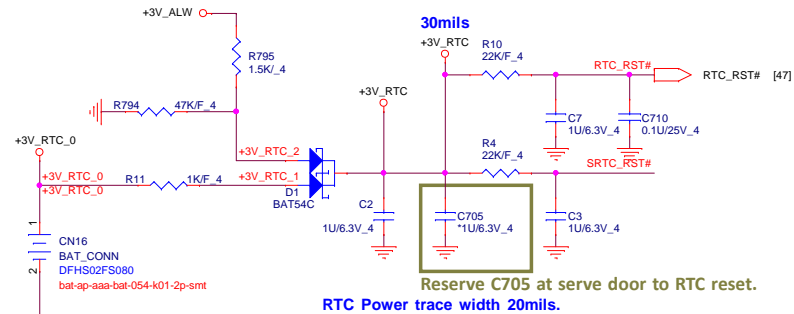


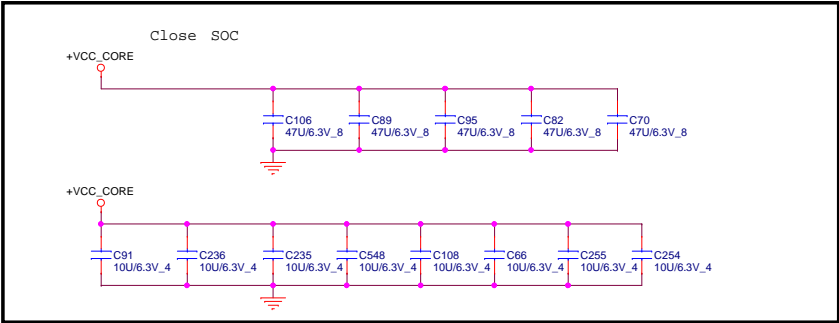
AMD_VBIOS_SEL#	DOCK_ID1
00= VBIOS 1	
01 = VBIOS 2 (Reserve for new die)	
10 = VBIOS 3 (Reserve for new die)	
11=UMA	

RTC Clock 32.768KHz



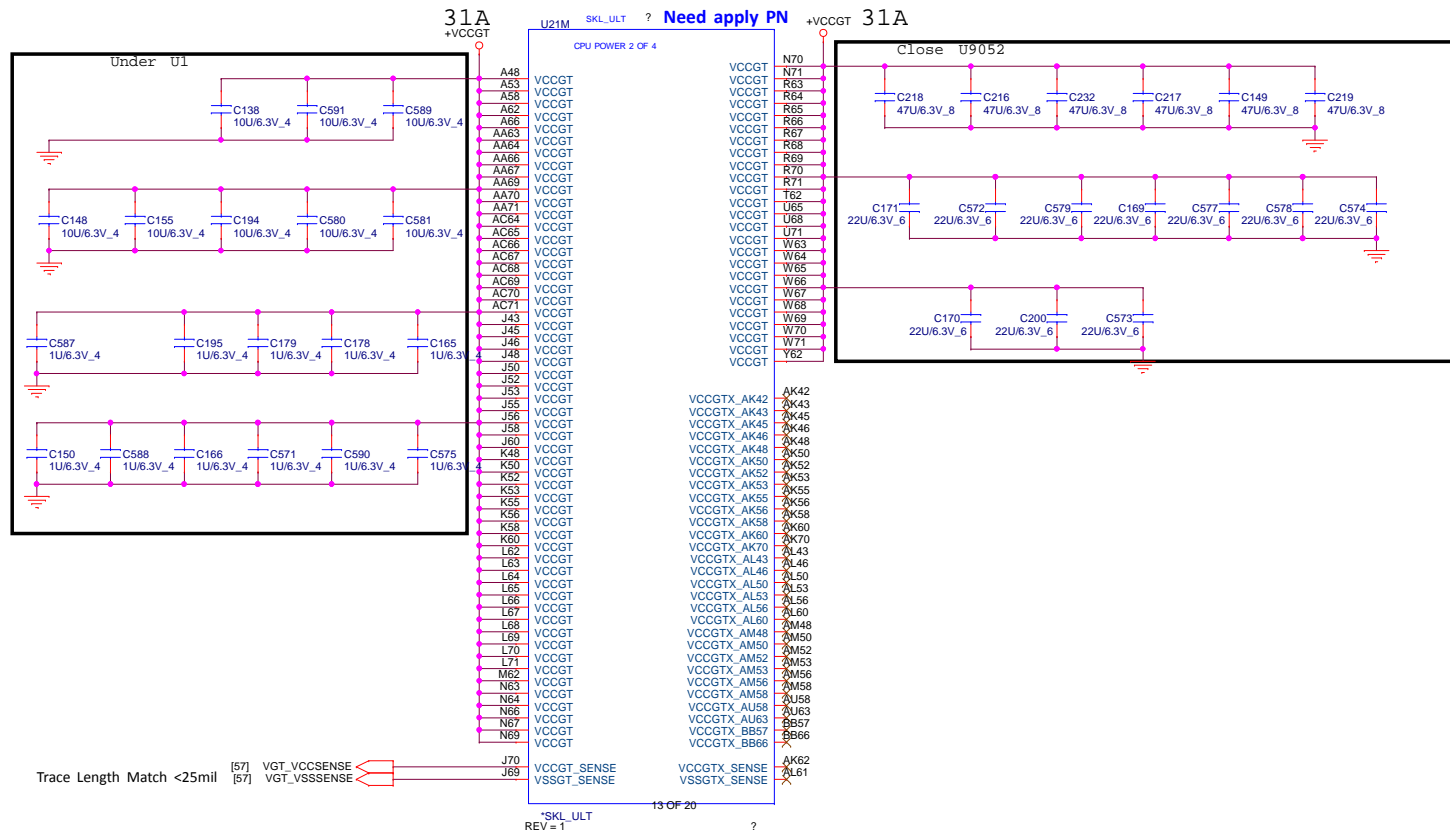
RTC Circuitry(RTC)



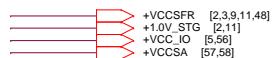
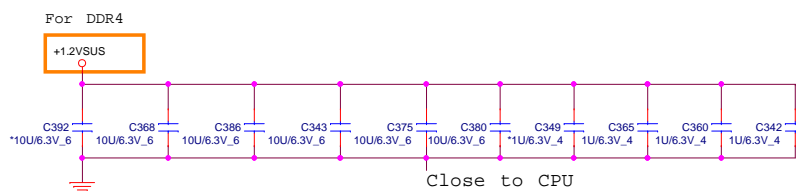
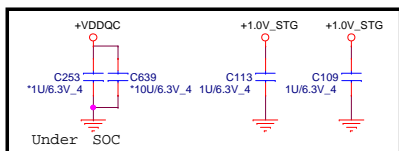
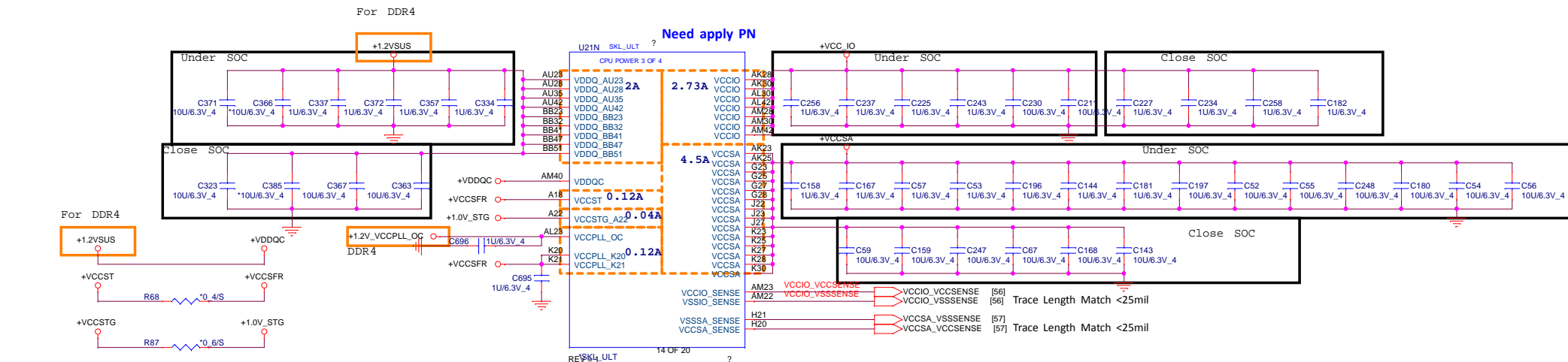


Power Rail	Description	Control
V _{CC}	Processor IA Cores Power Rail	SVID
V _{CCGT}	Processor Graphics Power Rails	SVID
V _{CCGTX}	Processor Graphics Extended Power Rail Available only for GT3/GT4 processor SKUs	SVID
V _{CCSA}	System Agent Power Rail	SVID/Fixed (SKU dependent)
V _{CCIO}	IO Power Rail	Fixed
V _{CCST}	Sustain Power Rail	Fixed
V _{CCPLL}	Processor PLLs power rail	Fixed
V _{DDQ}	Integrated Memory Controller Power Rail	Fixed (Memory technology dependent)
V _{CCOPC}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
V _{CCOPC_1P8}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
V _{CCEOPIO}	Processor EOPIO power rail (available only in SKU's with OPC)	Fixed





Power Rail	Description	Control
V _{CC}	Processor IA Cores Power Rail	SVID
V _{CCGT}	Processor Graphics Power Rails	SVID
V _{CCGTx}	Processor Graphics Extended Power Rail Available only for GT3/GT4 processor SKUs	SVID
V _{CCSA}	System Agent Power Rail	SVID/Fixed (SKU dependent)
V _{CCIO}	IO Power Rail	Fixed
V _{CCST}	Sustain Power Rail	Fixed
V _{CCPLL}	Processor PLLs power rail	Fixed
V _{DDQ}	Integrated Memory Controller Power Rail	Fixed (Memory technology dependent)
V _{CCOPC}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
V _{CCOPC_1P8}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
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Power Rail	Description	Control
V _{CC}	Processor IA Cores Power Rail	SVID
V _{CCGT}	Processor Graphics Power Rails	SVID
V _{CCGTx}	Processor Graphics Extended Power Rail Available only for GT3/GT4 processor SKUs	SVID
V _{CCSA}	System Agent Power Rail	SVID/Fixed (SKU dependent)
V _{CCIO}	IO Power Rail	Fixed
V _{CCST}	Sustain Power Rail	Fixed
V _{CCPLL}	Processor PLLs power rail	Fixed
V _{DDQ}	Integrated Memory Controller Power Rail	Fixed (Memory technology dependent)
V _{CCOPC}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
V _{CCOPC_1P8}	Processor OPC power rail (available only in SKU's with OPC)	Fixed
V _{CCeOPIO}	Processor EOPIO power rail (available only in SKU's with OPC)	Fixed



PROJECT : X63
Quanta Computer Inc.

Size	Document Number	Rev
Custom	13 -- SKYLAKE (POWER-3)	1A
Date: Thursday, May 19, 2016	Sheet 13 of 67	

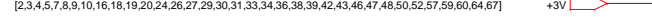
10/28 Del XDP

11/03 Del XDP

PV, 0421 Delete APS Connector

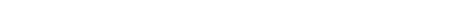
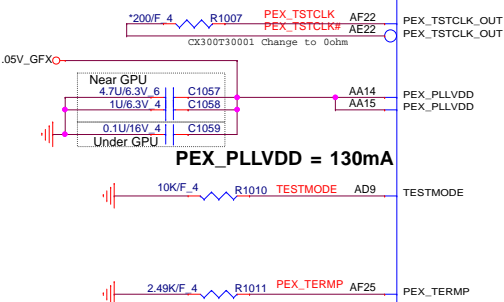
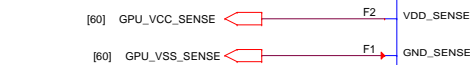
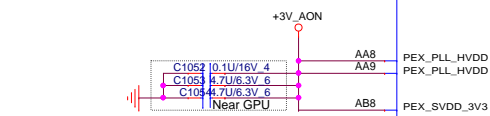
11/03 Del XDP

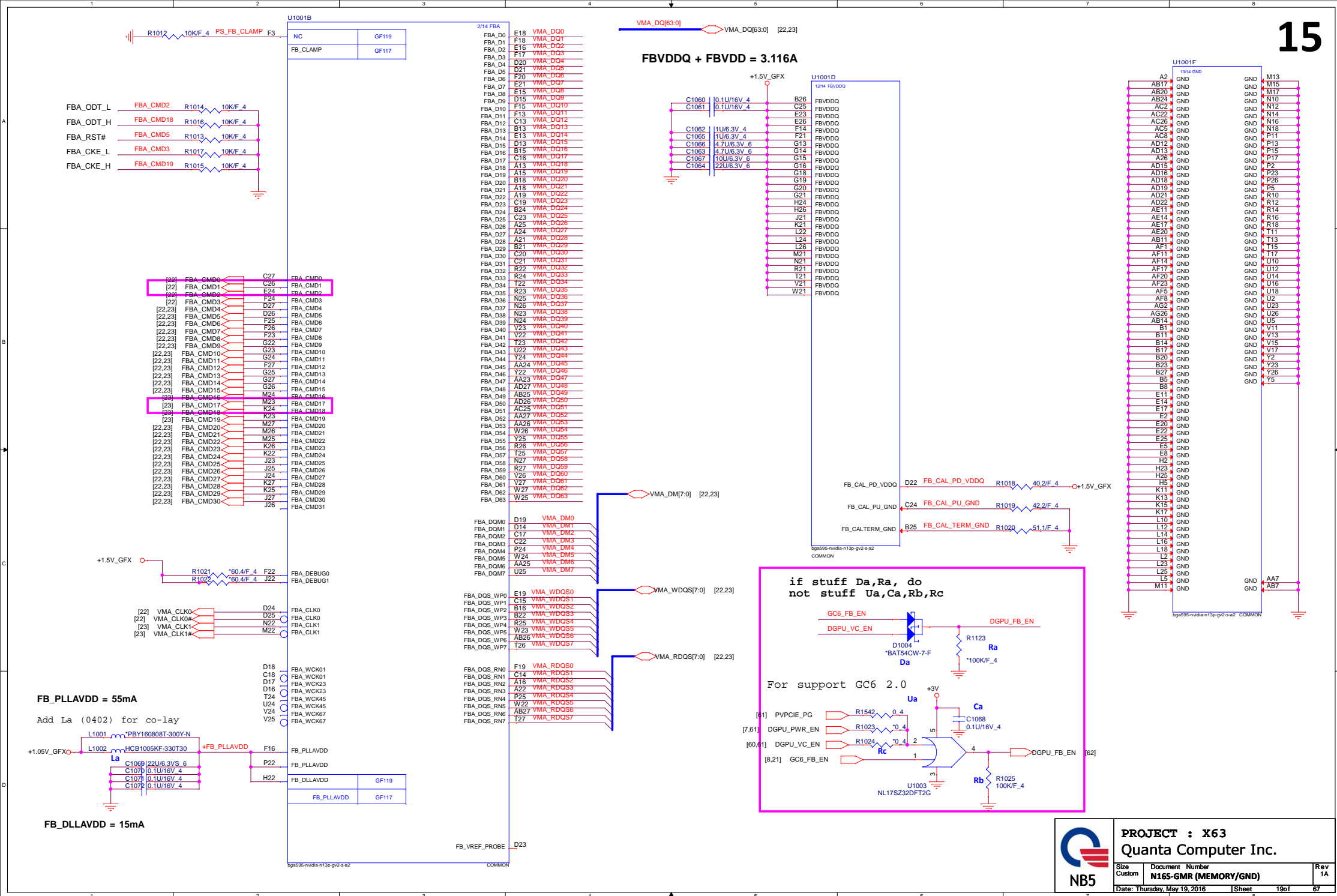


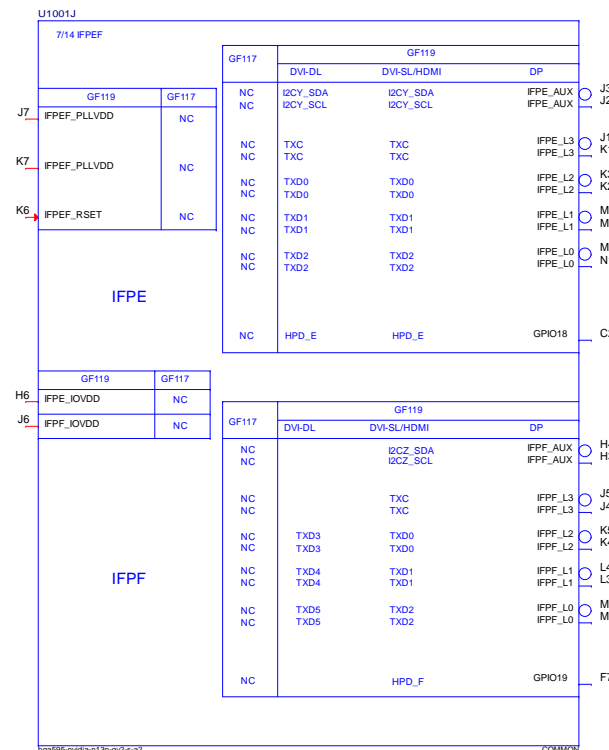
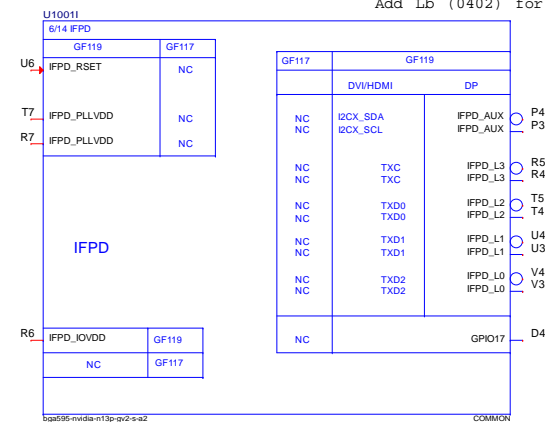
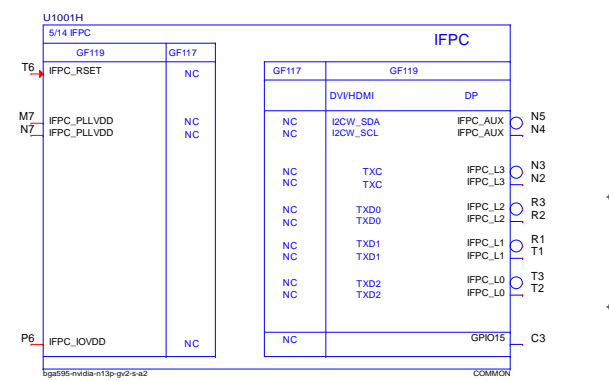
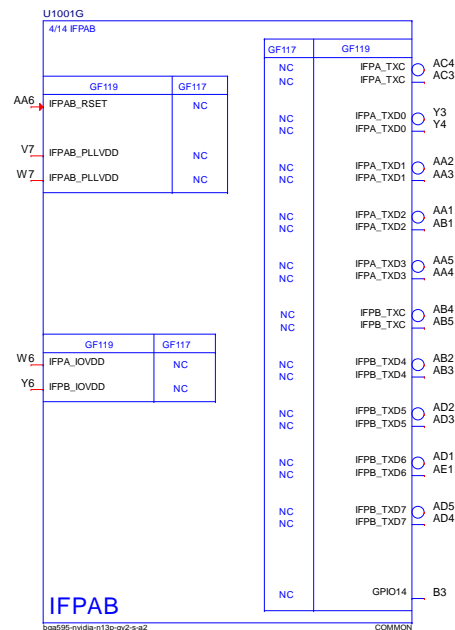


PEX_IOVDD + PEX_IOVDDQ = 1.042A

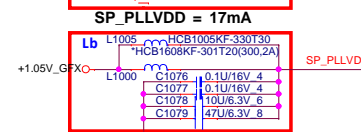
PEX_PLL_HVDD + PEX_SVDD_3V3 = 143mA



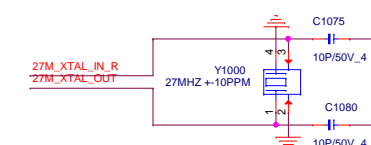
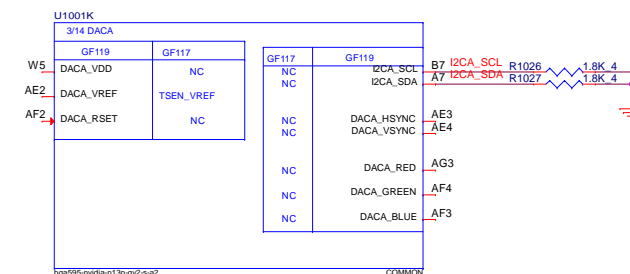
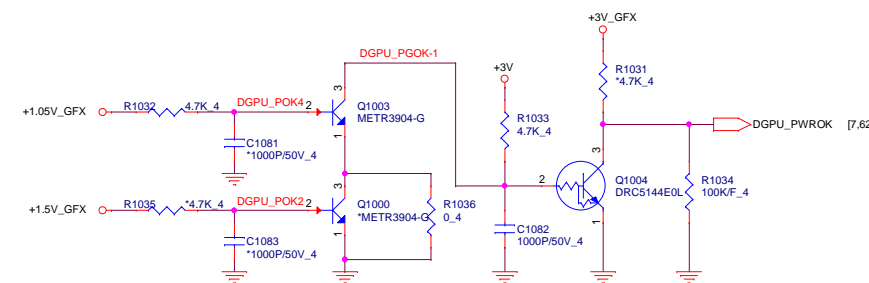


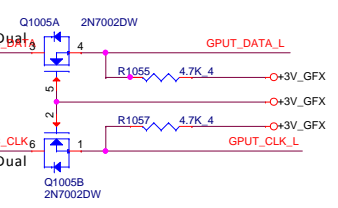
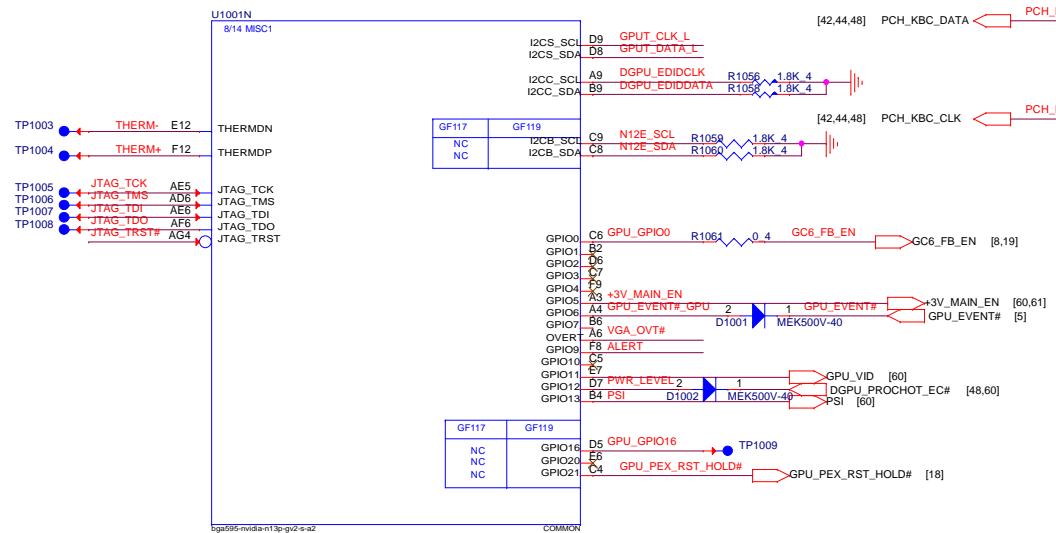


PLLVDD = 38mA Add La (0402) for co-lay



VID_PLLVDD = 41mA





Resistor Values	Pull-Up to 3V3_MAIN	Pull-Down to GND
4.99 kΩ	1000	0000
10.0 kΩ	1001	0001
15.0 kΩ	1010	0010
20.0 kΩ	1011	0011
24.9 kΩ	1100	0100
30.1 kΩ	1101	0101
34.8 kΩ	1110	0110
45.3 kΩ	1111	0111

ROM_SI	DESCRIPTION	Vendor	Vendor P/N	Strapping	TOP B/S	QBC
0000						
0101	DDR3 - 256Mx16, 1.5V, 1.1Ghz/1.35V 1Ghz	HYNIX	H5TC4G63CFR-N0C	0x5	AKD5PZDTW01	AKD5PZDTW02
0101	DDR3 - 256Mx16, 1.5V, 1.1Ghz/1.35V 1Ghz	Micron	D9JED7816MH-TB-091G:N	0x1	AKD5PGDT501	AKD5PGDT501
0100	DDR3 - 256Mx16, 1.5V, 1Ghz/1.35V 900Mhz	SAMSUNG	K4W4G1646E-BC1A	0x4	AKD5PGDT500	AKD5PGDT501

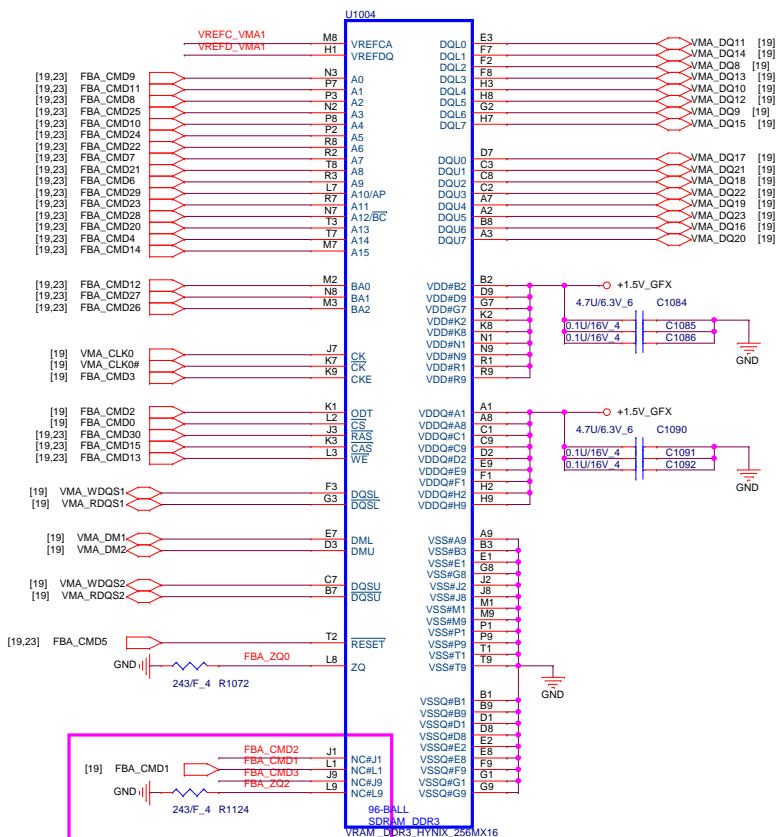
GPIO	I/O	PIN	USAGE
0	IN	FB_CLAMP_MON	FB Clamp monitor
1	OUT	MEM_VDD_CTL	Memory VDD VID
2	OUT	LCD_BL_PWM	Panel Backlight PWM
3	OUT	LCD_VCC	PANEL POWER ENABLE
4	OUT	LCD_BLEN	PANEL BACKLIGHT ENABLE
5	OUT	Reserved	--
6	OUT	FB_CLAMP_TGL_REQ	Active low FB Clamp toggle request
7	OUT	3D_VISION	3D VISION LEFT/RIGHT signal
8	I/O	OVERT	ACTIVE LOW THERMAL OVER TEMP
9	I/O	ALERT	ACTIVE LOW THERMAL ALERT
10	OUT	MEM_VREF_CTL	MEMORY VREF CONTROL
11	OUT	PWR_VID	GPU CORE_VDD PWM Control signal
12	IN	PWR_LEVEL	AC Power detect or power supply overdraw input
13	OUT	PSI	Phase Shedding

Rank0

```

HYU 256Mx16, H5TC4G63AFR-11C          QBC PN AKD5PGWTW08---TOP B/S PN : AKD5PGWTW07
MIC 256Mx16, MT41J256M16HA-093G:E      QBC PN AKD5PZSTL01---TOP B/S PN : AKD5PZSTL00
SAM 256Mx16, K4W4G1646D-BC1A           QBC PN AKD5PGWT501---TOP B/S PN : AKD5PGWT502

```



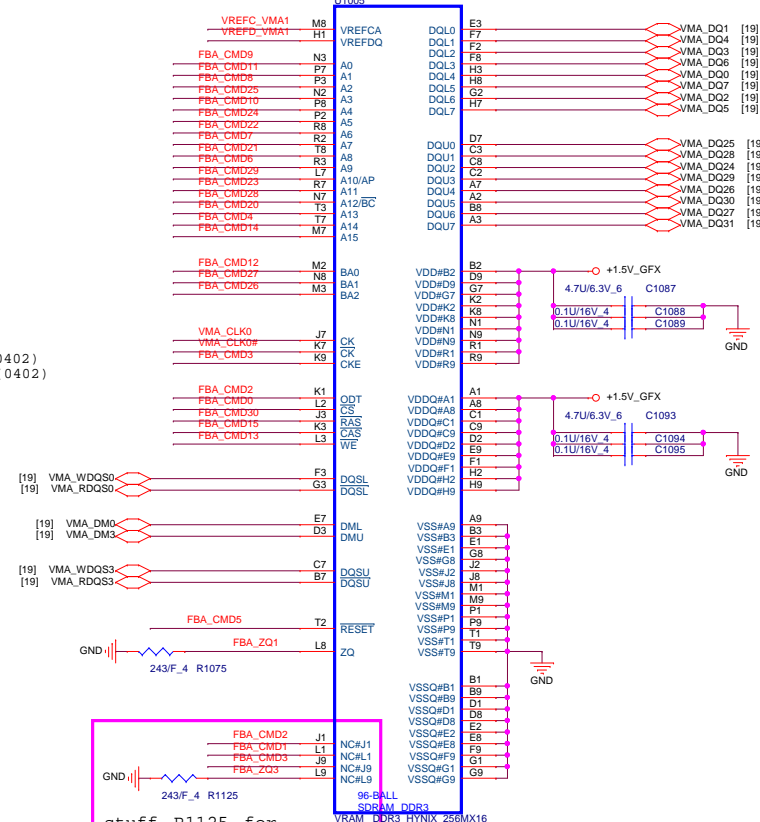
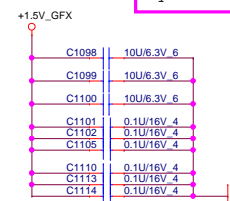
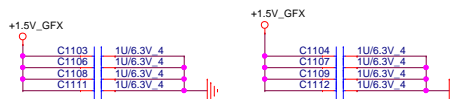
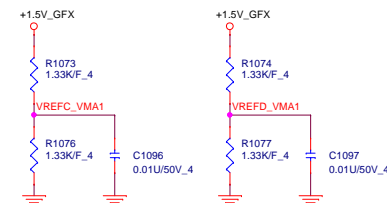
stuff R1124 for
Hynix 8Gb DDP VRAM

```
reserve for Hynix 8Gb DDP VRAM
```

SDDR3_BGA100

	0..31	32..63
CMD0	CS0*	
CMD1	CS1*	
CMD2	ODT	
CMD3	CKE	
CMD16		CS0*
CMD17		CS1*
CMD18		ODT
CMD19		CKE

SNN FBAO ODT1	J1	NC/ODT1
SNN FBAO CKE1	J9	NC/CKE1
SNN FBAO CS1	L1	NC/CS1
SNN FBAO ZQ1	L9	NC/ZQ1

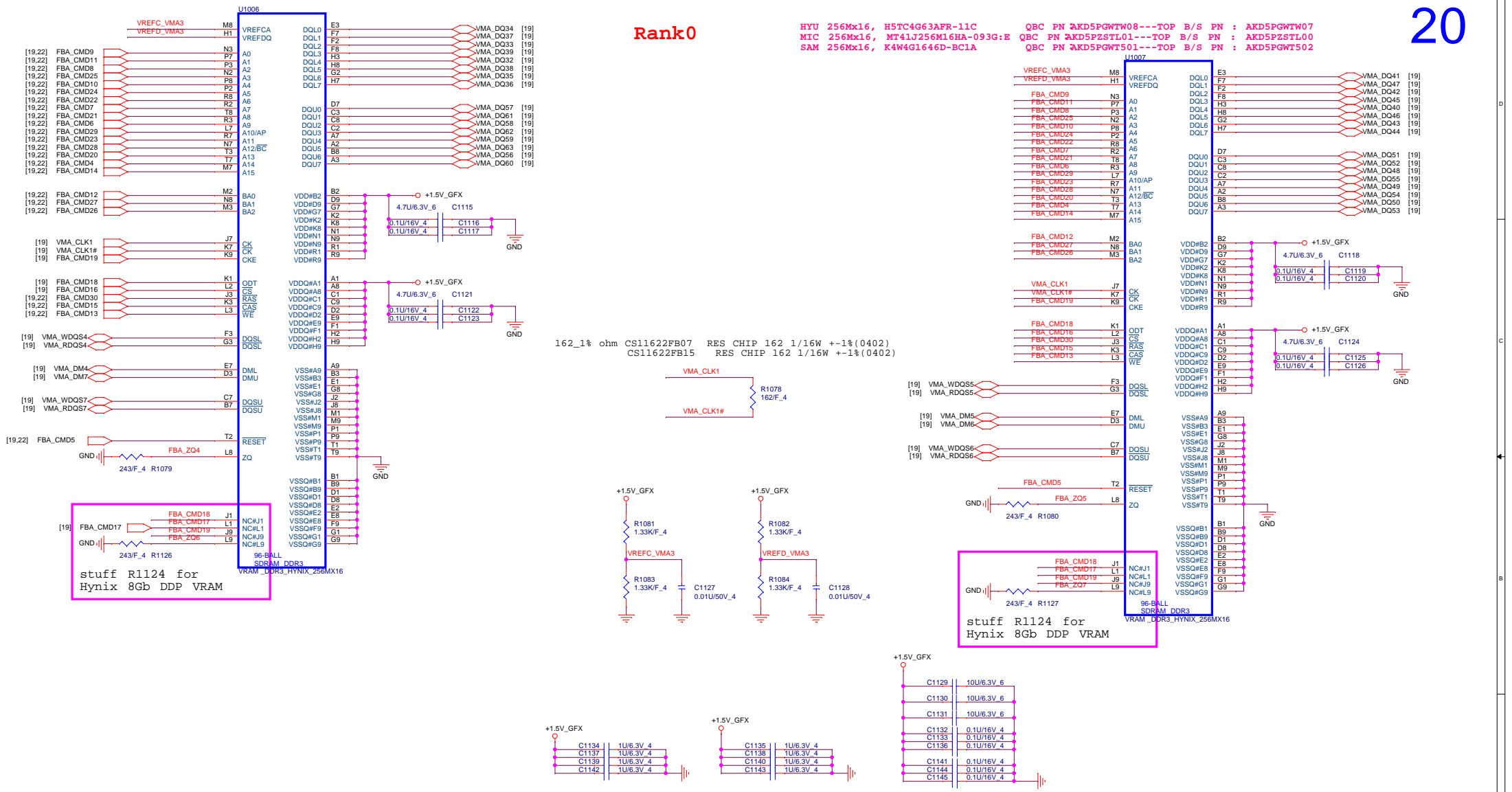


```
stuff R1125 for
Hynix 8Gb DDP VRAM
```

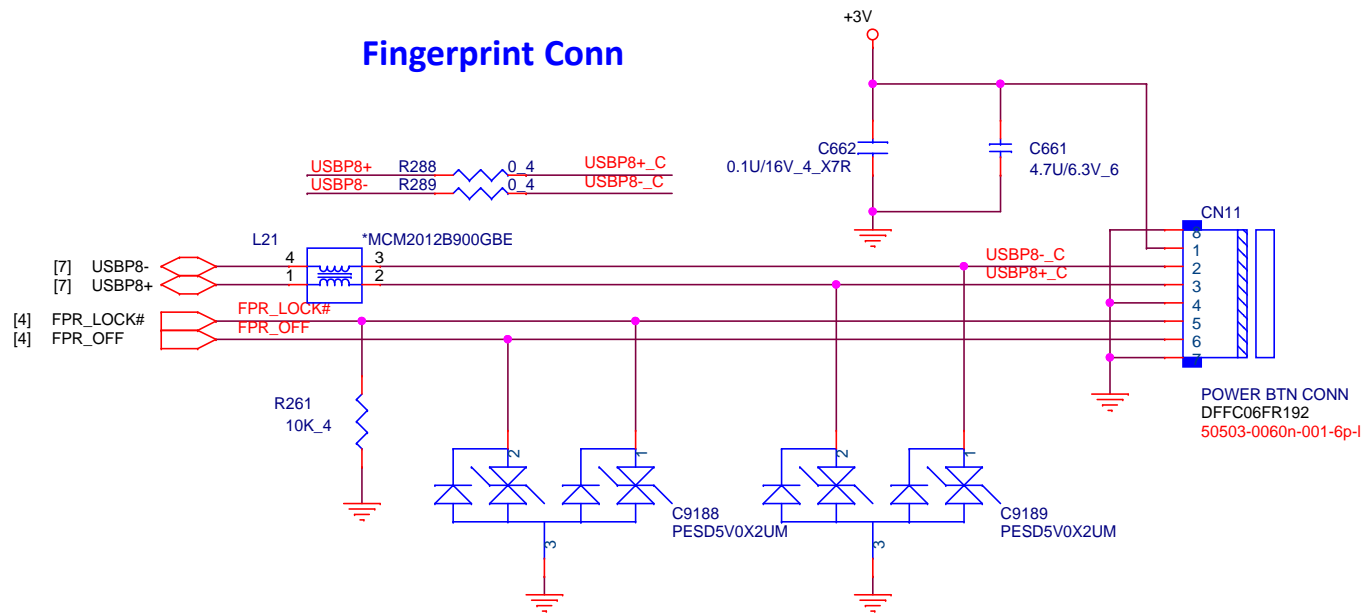

Rank0

HYU 256Mx16, H5TC4G63APR-11C
MIC 256Mx16, MT41J256M16HA-093G:E
SAM 256Mx16, K4W4G1646D-BC1A

QBC PN AKD5PGWTW08---TOP B/S PN : AKD5PGWTW07
QBC PN AKD5PZSTL01---TOP B/S PN : AKD5PZSTL00
QBC PN AKD5PGWT501---TOP B/S PN : AKD5PGWT502



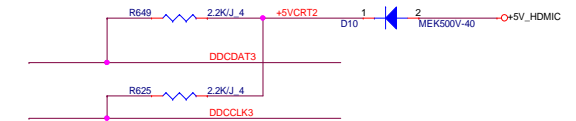
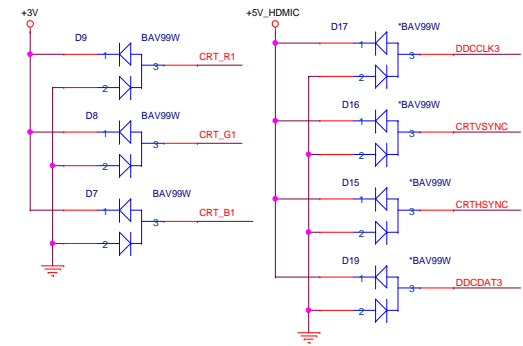
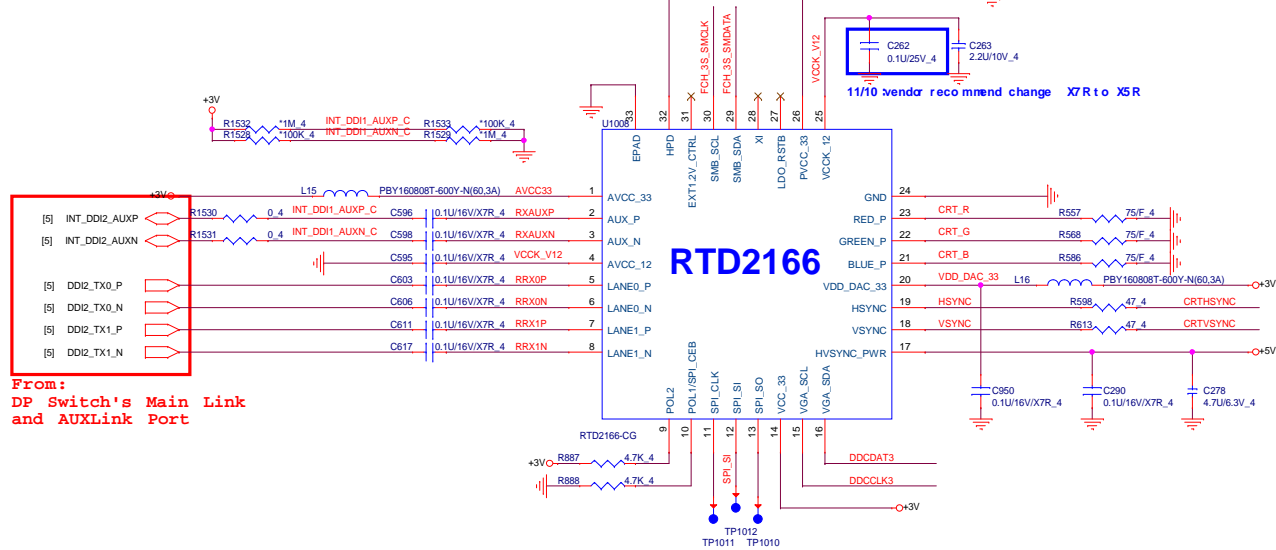
Fingerprint Conn



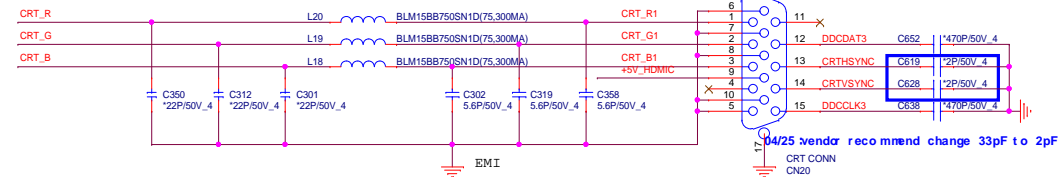
ALF@1119:
HP confir med to re move the eDP to LVDS convert α.

[2,3,4,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,42,43,46,47,48,50,52,57,59,60,64,67] +3V

To:
DP Switch's HPD Input Port
[5] DDI_HPD_CON
Pull down at SOC side



40 MIL
C676 0.1u/16V 4 X7R
SSM14 spec is 40V 1A



Need check footprint and PN

DFDS15FR456
dsb-10556-15002-15p

FCH_3S_SMCLK, FCH_3S_SMDATA Connection

EP mode: Pin2, Pin3 connect to EC SMBUS
ROM or EEPROM mode: connect to PCH SMBUS
IIC Protocol is used

RTD2168 Slave Address:
0x64/0x65 and 0x68/0x69

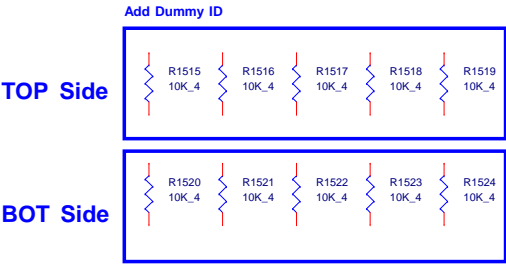
From PCH




PROJECT : X63
Quanta Computer Inc.

Size Custom	Document Number 27 - DP2VGA_converter	Rev 1A
Date: Thursday, May 19, 2016	Sheet 27 of 67	

Inputs		Equalization for 3 Gbit/s
EQ1	EQ0	
short to GND	short to GND	0 dB
short to GND	short to V _{DD}	2 dB
short to V _{DD}	short to GND	4 dB
short to V _{DD}	short to V _{DD}	6 dB



OE_N	DDC_EN	HPD_SINK	Source output	PTN3366 power mode
LOW	HIGH	HIGH	source active	Active mode; DDC active
LOW	LOW	LOW	don't care	Standby mode
HIGH	LOW	don't care	don't care	Ultra low-power mode



PROJECT : X63

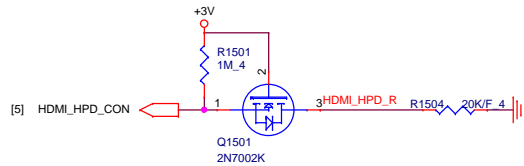
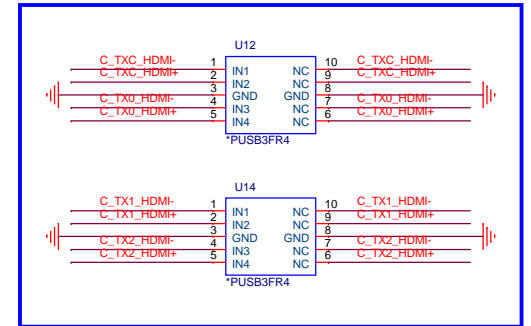
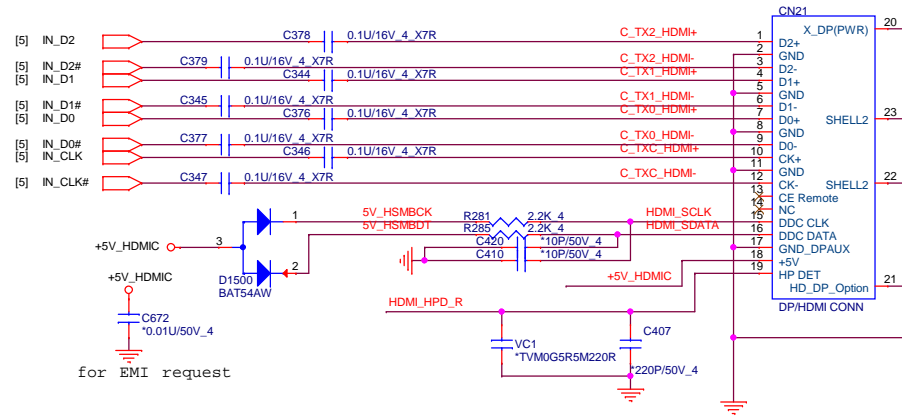
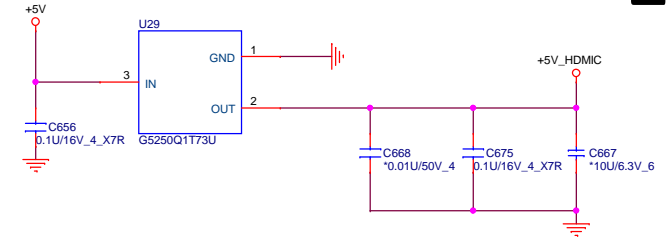
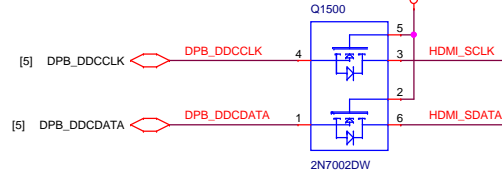
Quanta Computer Inc.

Size Custom	Document Number 28 – REPEATER PTN3366	Rev 1A
Date: Thursday, May 19, 2016		Sheet 28 of 67

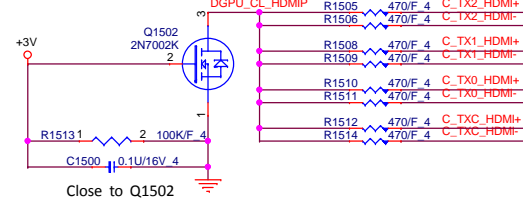
EMI Solut i on

C_TX2_HDMI+	R304	150/F 4	C_TX2_HDMI-
C_TX1_HDMI+	R291	150/F 4	C_TX1_HDMI-
C_TX0_HDMI+	R295	150/F 4	C_TX0_HDMI-
C_TXC_HDMI+	R299	150/F 4	C_TXC_HDMI-

HDMI SMBus Isol at i on



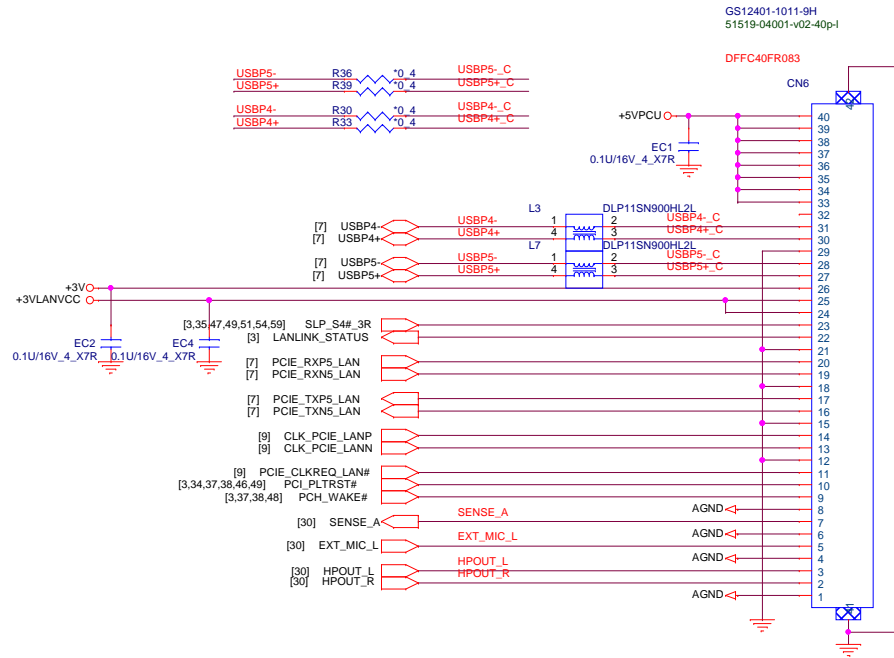
Close to HDMI connector




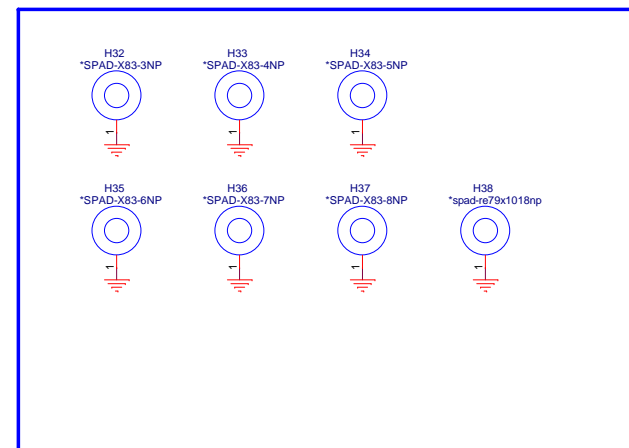
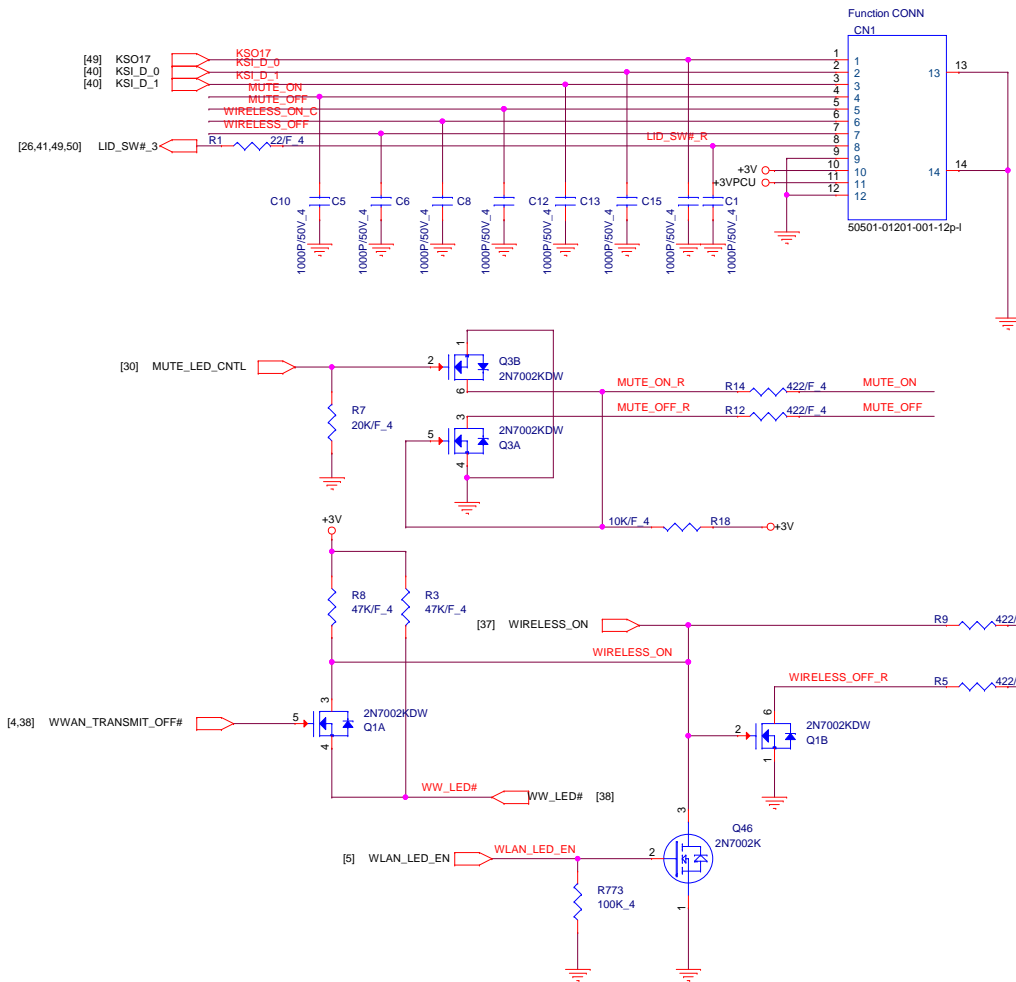
PROJECT : X63
Quanta Computer Inc.

Size Custom	Document Number	Rev 1A
	29 -- HDMI CONNECTOR	
Date: Thursday, May 19, 2016	Sheet 29 of 67	

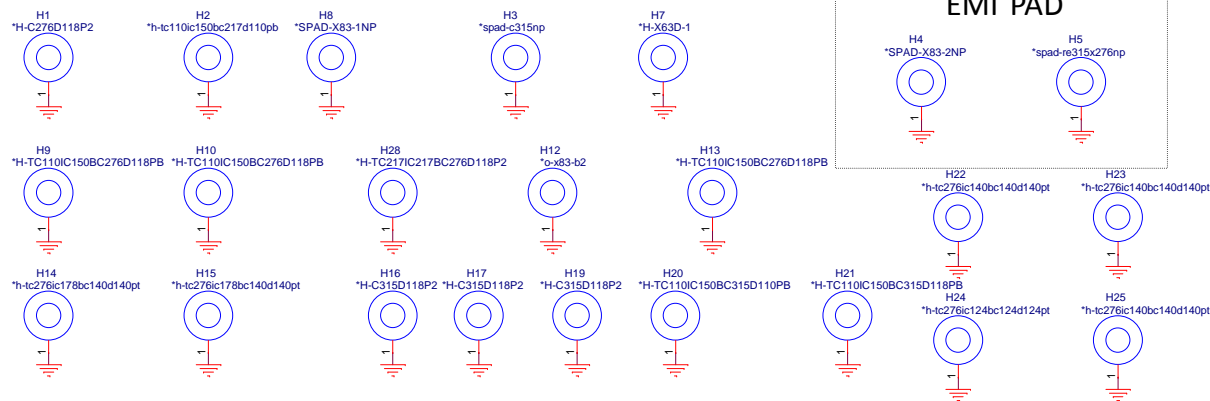
USB2.0 x2/LAN/Headphone_Mic Combo Jack Daugther Board Connector



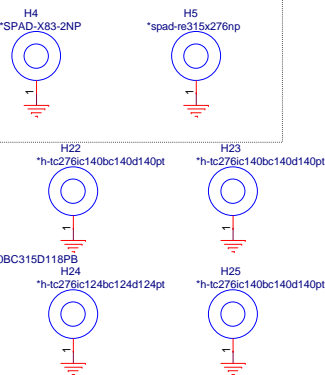
 NB5	PROJECT : X63			
	Quanta Computer Inc.			
	Size Custom	Document Number 31 -- DAUGHTER BOARD CONN.		Rev 1A
	Date: Thursday, May 19, 2016		Sheet 31 of 67	



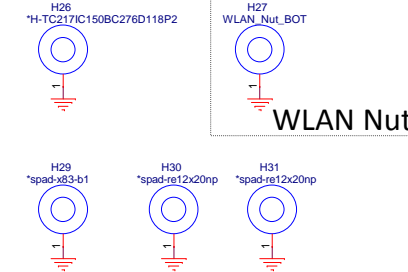
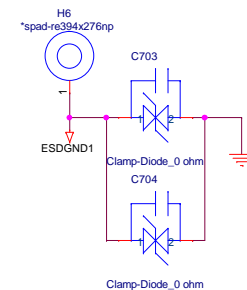
Hole



EMI PAD

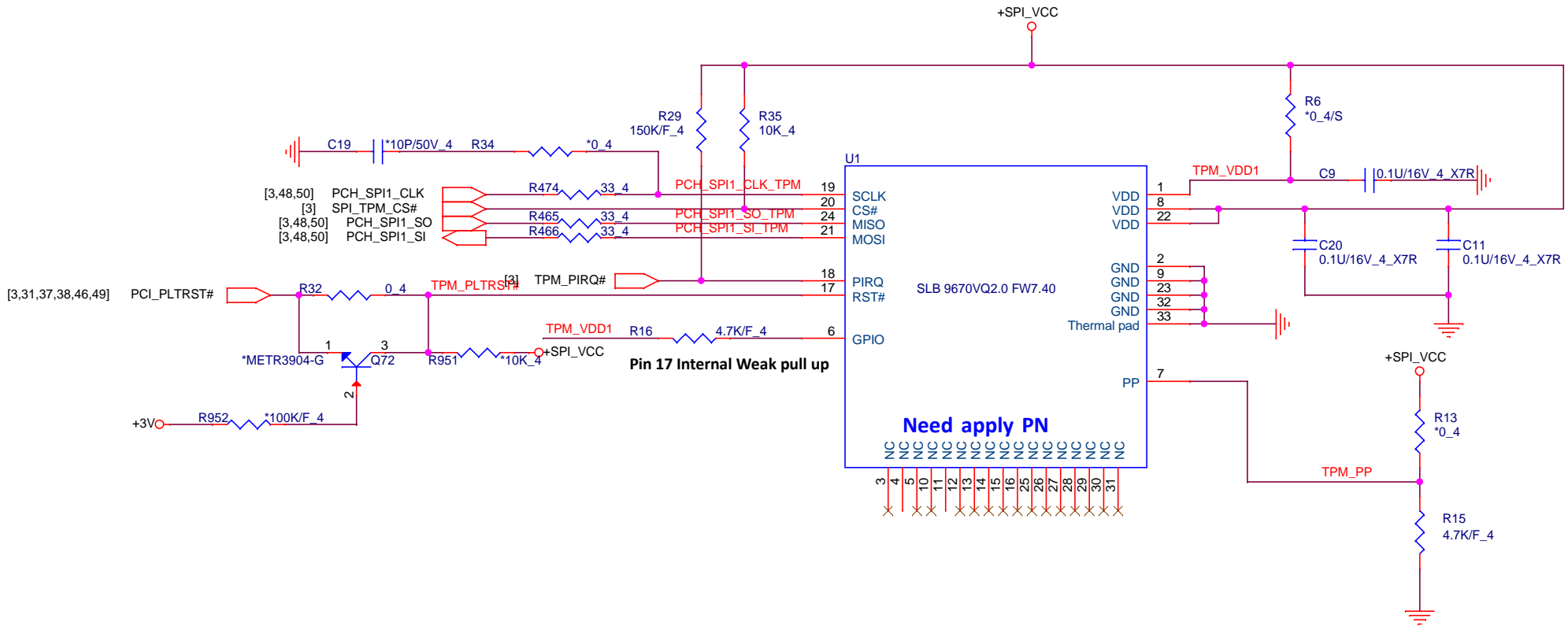


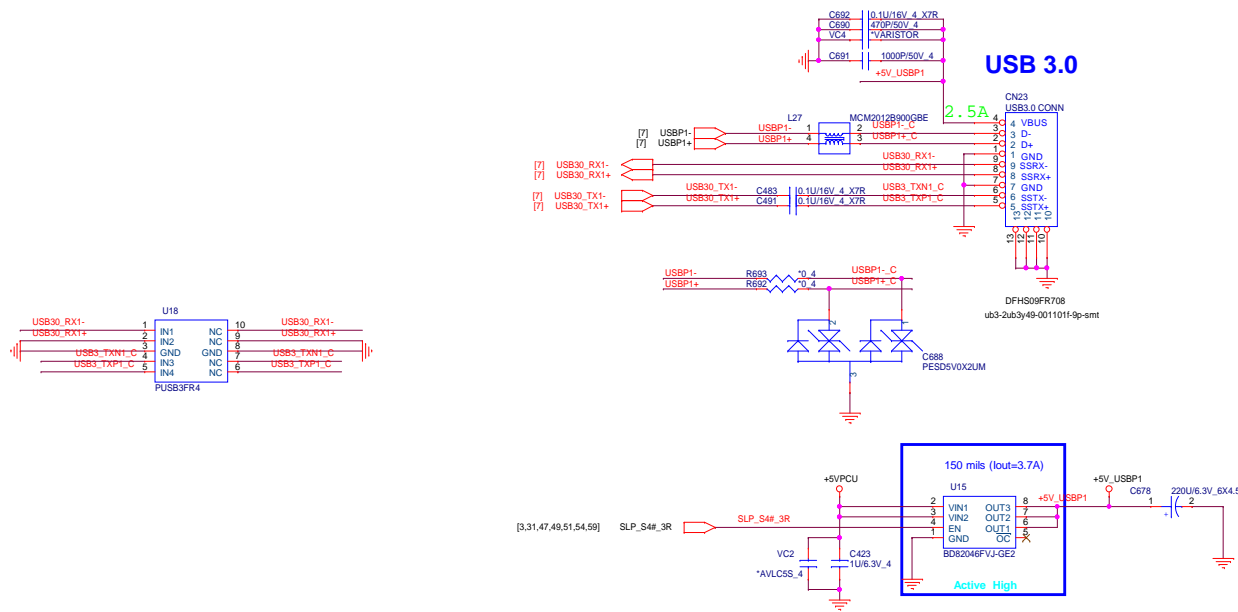
ESD PAD



TPM (1.2 or 2.0)

34





[31,44,45,46,47,52,53,54,55,57,58,59,60,61,62,64,67]
[9,41,51,52,53,59,63,64,67]

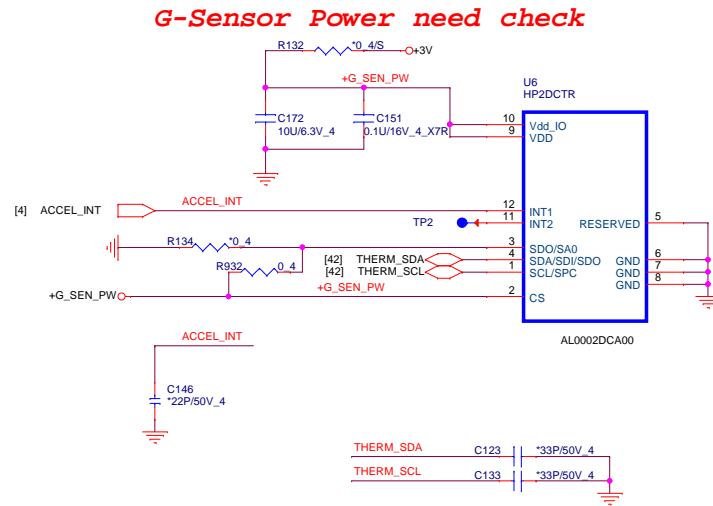
+5VPCU
+3V_ALW



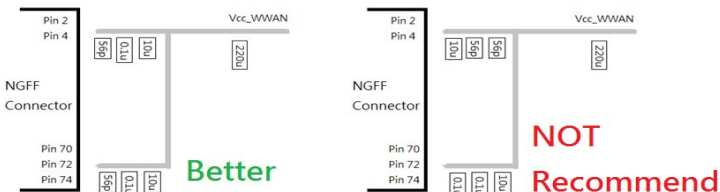
PROJECT : X63
Quanta Computer Inc.

Size Custom	Document Number 35 -- USB3.0 x2	Rev 1A
Date: Thursday, Mar 19, 2016	Sheet 35 of 67	

Accelerometer Sensor

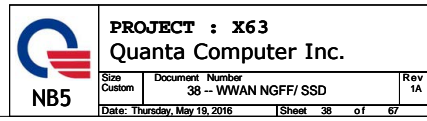


[31,35,44,45,46,47,52,53,54,55,57,58,59,60,61,62,64,67] +5VPCU
[9,41,51,52,53,59,63,64,67] +3V_ALW

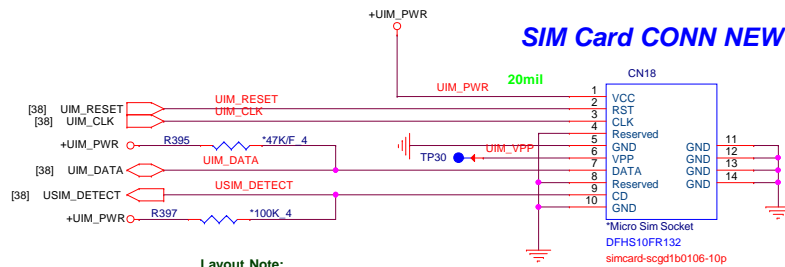


+VCC	Power_On/Off (Pin6)	W_Disable (Pin8)	GPS_Disable (Pin26)
S0 ON	High	High	High
S3 ON	High	Low	Low
S4 ON	Low	Low	Low
S5 ON	Low	Low	Low

↵	M.2 Pinout ↵	S0↵	S3 – S5↵
WWAN 3.3V↵	2, 4, 70, 72, 74↵	On↵	Off↵

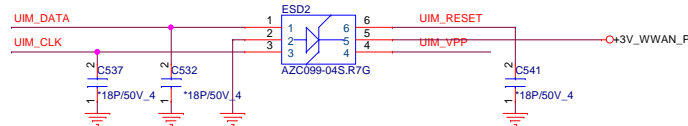
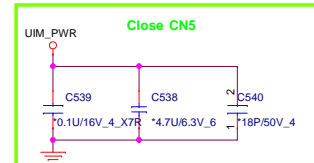


SIM Card CONN NEW



Layout Note:

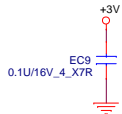
1. UIM_RESET, UIM_CLK, UIM_DATA routing as short as possible. Route into ESD then go out.
2. Avoid routing the SIM_CLK and SIM_DATA lines in parallel over distances ≥ 2 cm.
3. Position the SIM connector from the WWAN module ≤ 100 mm if possible, NOT exceed length is 150mm.

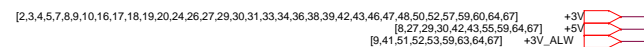
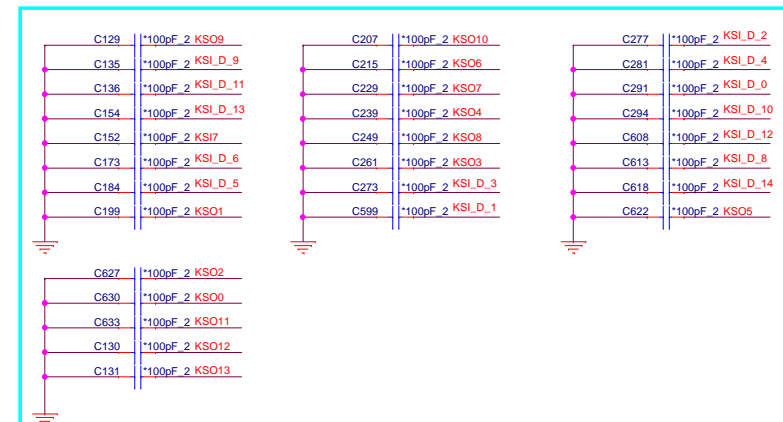
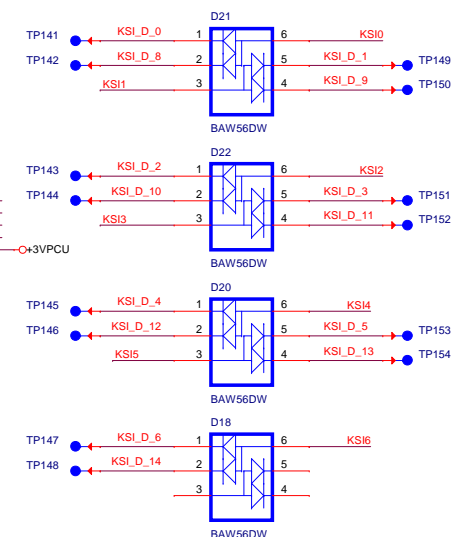
Trace Length and Routing^u

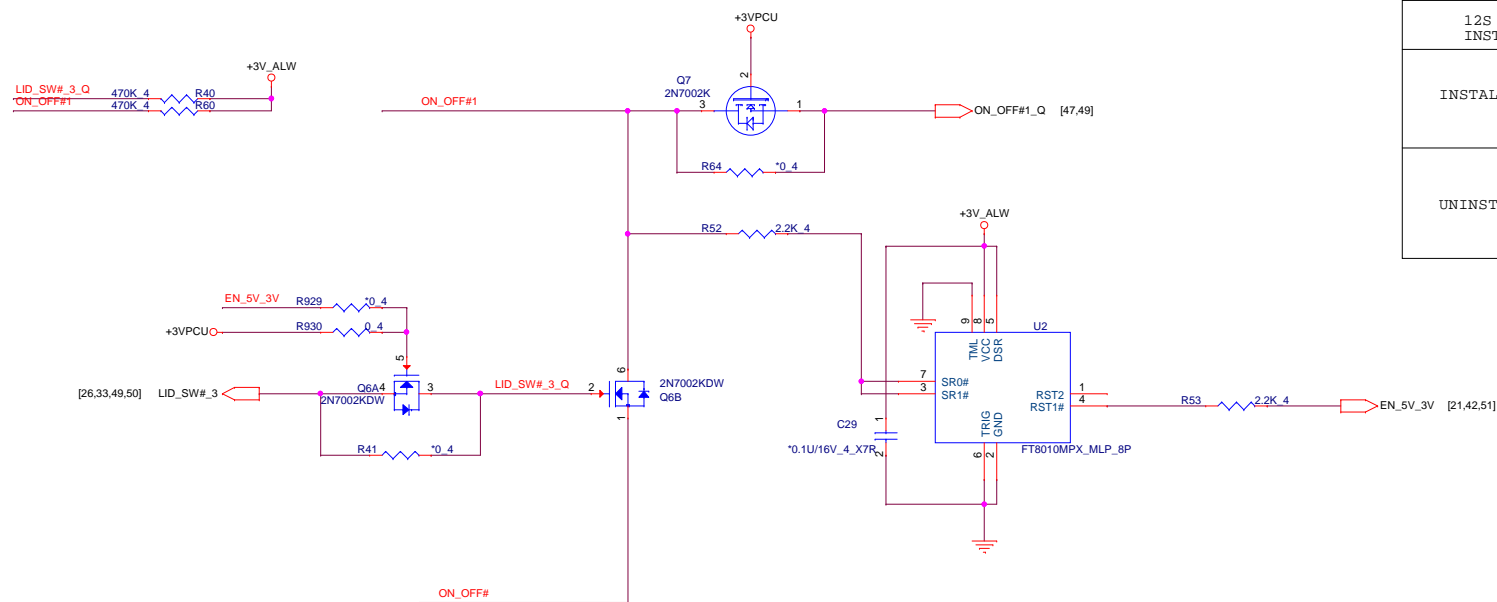
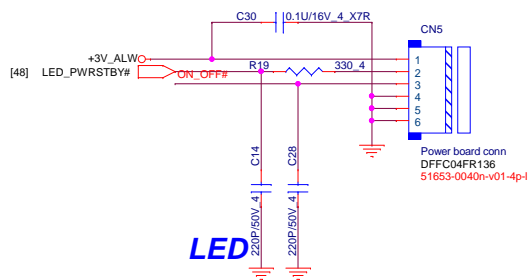
- Special attention should be paid to SIM traces (UIM_CLK, UIM_DATA and UIM_RST) to minimize the trace lengths between the SIM slot and the WAN NGFF slot. **Minimizing the signal lengths and traces will reduce possibility of SIM signal integrity issues.** Recommended maximum length is 100mm. Not to exceed length is 150mm.^u
- Minimum distance between UIM_CLK and UIM_DATA should be 20 mils. Static signals such as UIM_RST can be routed between UIM_CLK and UIM_DATA to conserve space if needed.^u
- It is recommended that SIM traces be isolated from other high-speed switching signals, as noise can couple into the SIM signals. Keep a minimum distance of 20 mils between UIM_CLK, UIM_DATA and any other high-speed switching signals.^u
- Placing the SIM card on a daughter card is also not recommended as the interconnect may impact SIM signal integrity.^u

SIM Power^u

- The UIM_PWR trace width must be at least 20 mils. Sub-planar routing is recommended.^u
- Implement additional power filtering to SIM card power to ensure clean power is supplied to minimize any possible noise ripple effects. At a minimum, place a 0.1uF and a 4.7uF capacitor on the UIM_PWR supply and locate near the SIM connector.^u

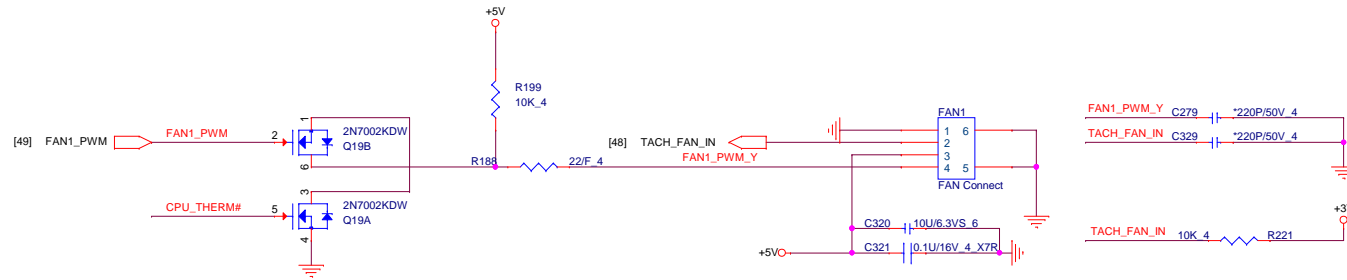






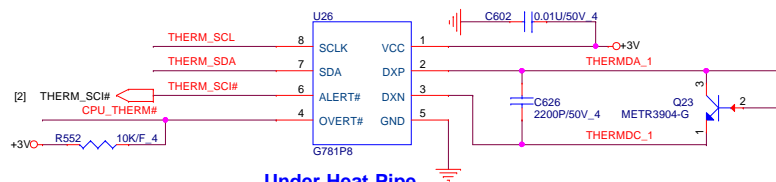
12S RESET MODE INSTAL FOR DB0		
INSTAL	R10702 R10704 R10701 U9068	R1070 R? R?
UNINSTAL	R? Q7080	R? Q7081

[2,3,4,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,42,43,46,47,48,50,52,57,59,60,64,67] +3V
[8,27,29,30,40,42,43,55,59,64,67] +5V
[9,51,52,53,59,63,64,67] +3V_ALW



Thermal sensor

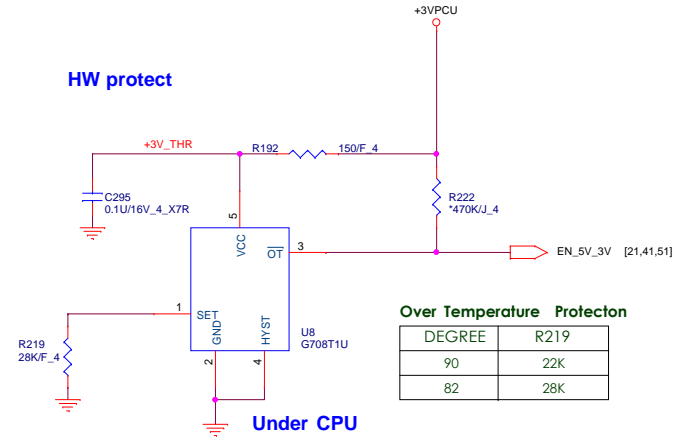
CPU Thermal Sensor



Under Heat Pipe

Main: AL000781012 G781P8(98h)
2nd:AL000431014 TMP431ADGKR

HW protect

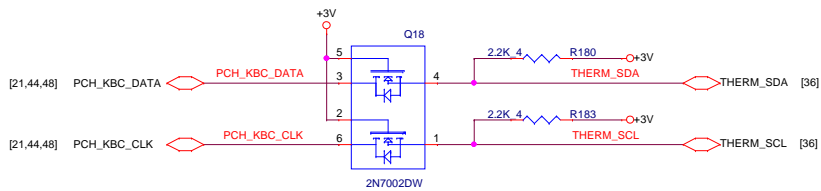


Over Temperature Protection

DEGREE	R219
90	22K
82	28K

Under CPU

$$RSET \text{ (K OHM)} = 0.0012T^2 - 0.9308T + 96.147$$



[2,3,4,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,43,46,47,48,50,52,57,59,60,64,67]
[9,41,51,52,53,59,63,64,67]

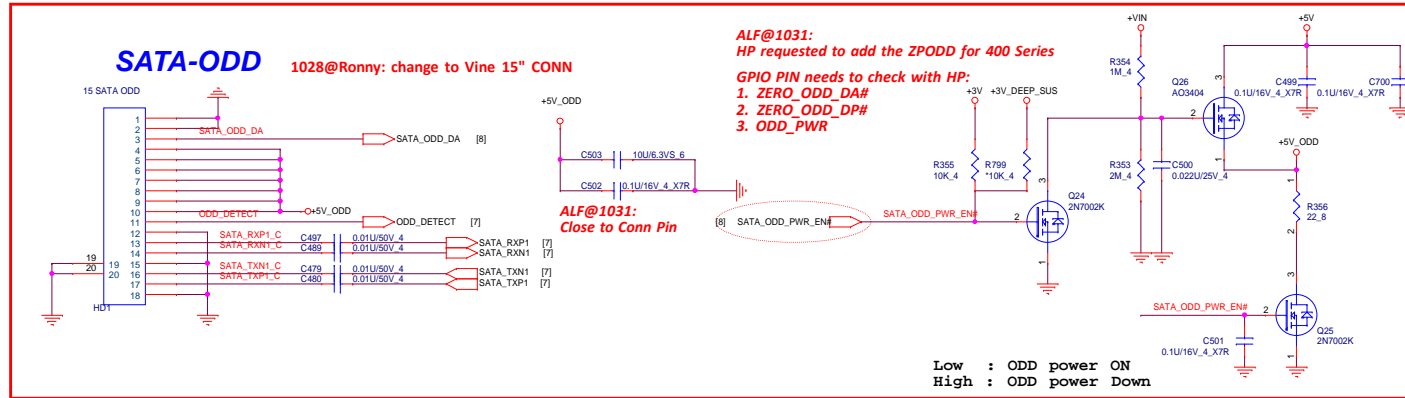
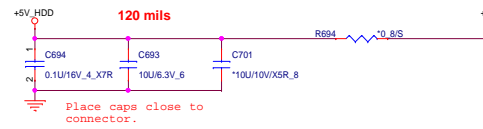
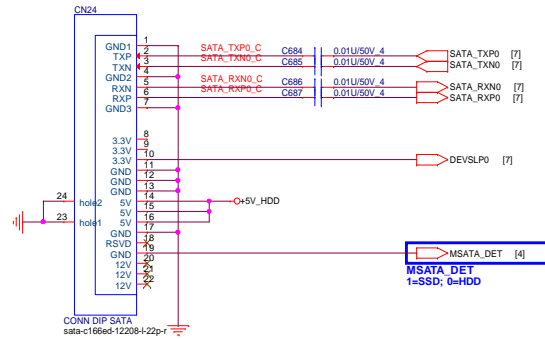
+3V
+3V_ALW

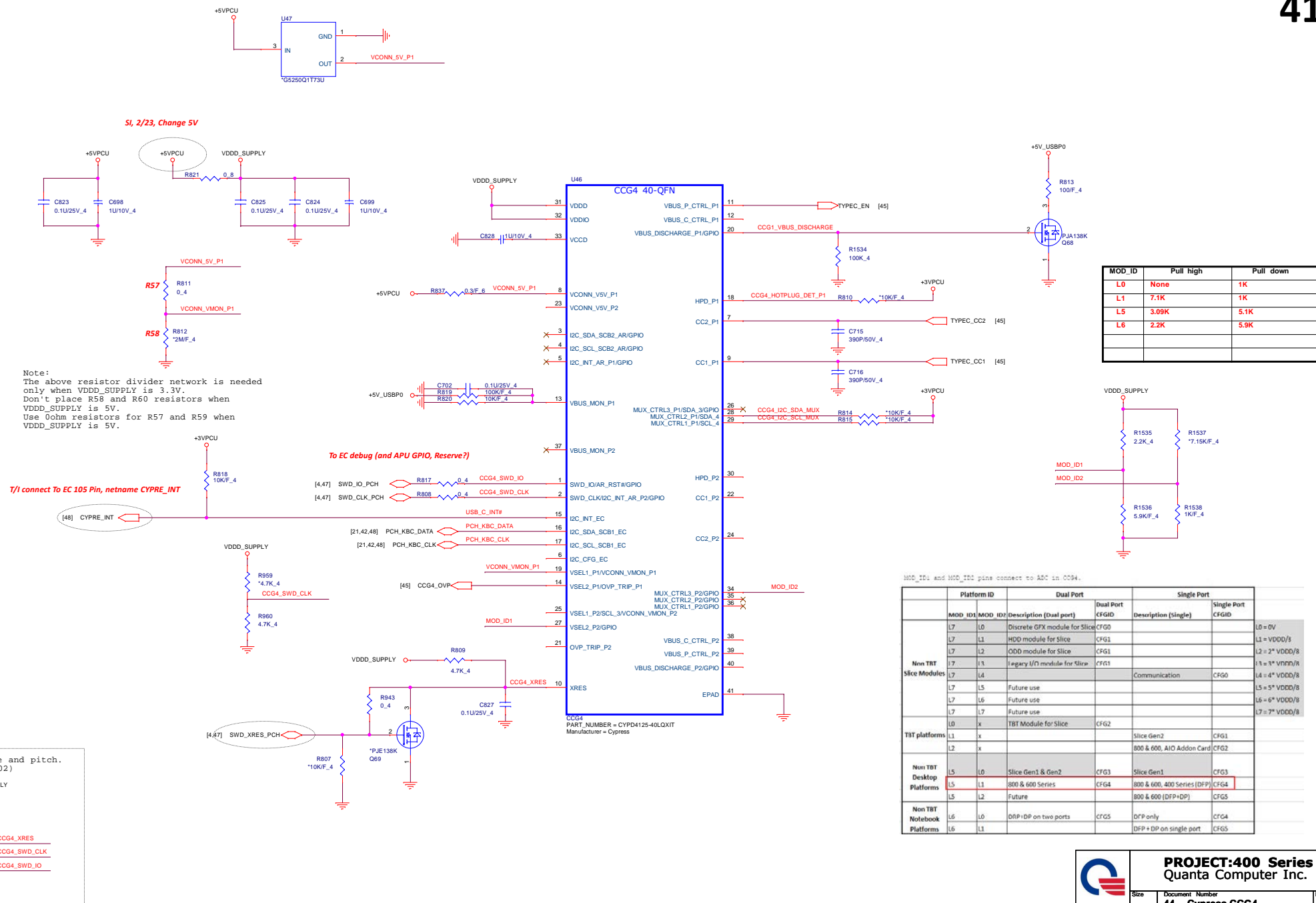


PROJECT : X63
Quanta Computer Inc.

Size	Document Number	Rev
Custom	42-- FAN and Thermal IC	1A
Date: Thursday, May 19, 2016	Sheet 42 of 67	

SATA-HDD

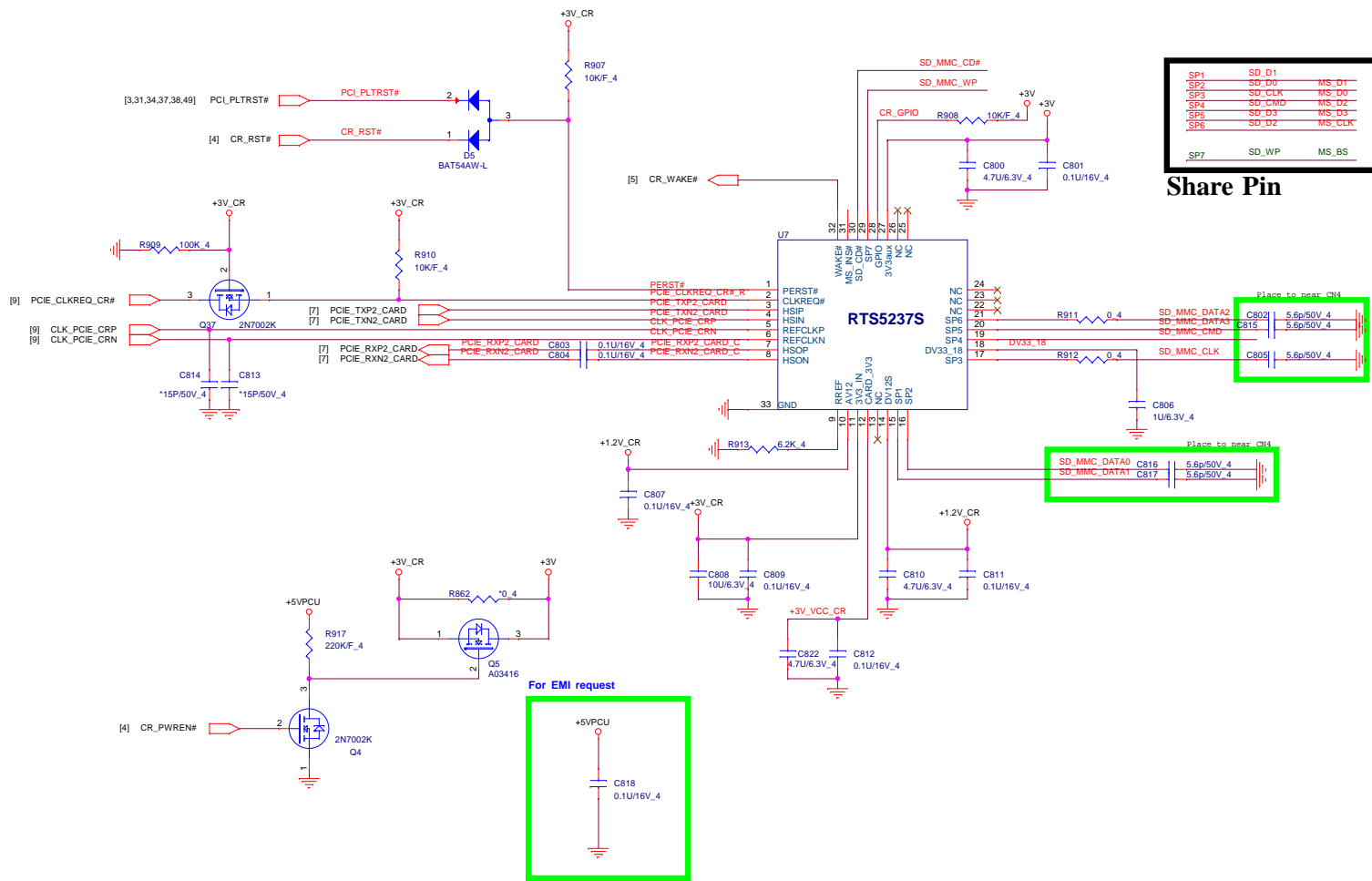




PROJECT:400 Series
Quanta Computer Inc.

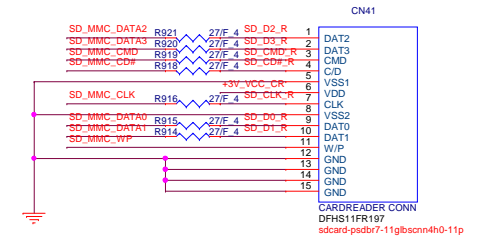
Size Document Number
44 - Cypress CCG4
Date: Thursday, May 19, 2016 Sheet 44 of 67





SP1	SD_D1	MS_D1
SP2	SD_D0	MS_D0
SP3	SD_CLK	MS_D0
SP4	SD_CMD	MS_D2
SP5	SD_D3	MS_D3
SP6	SD_D2	MS_CLK
SP7	SD_WP	MS_BS

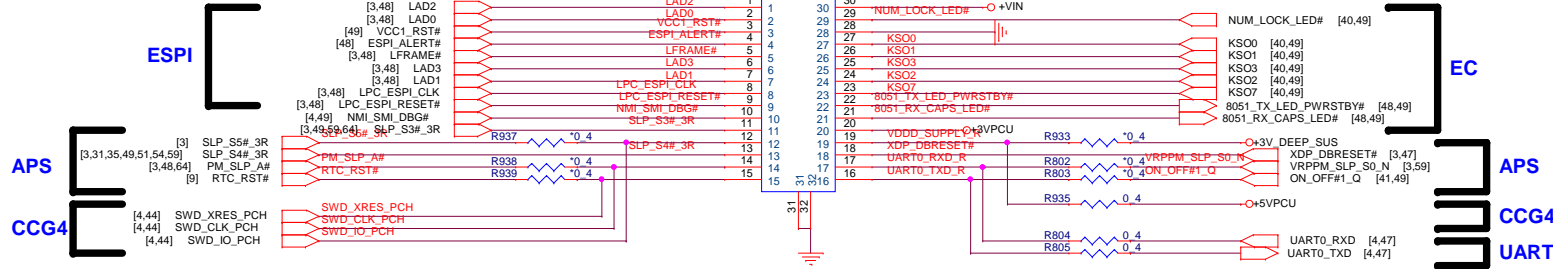
Share Pin



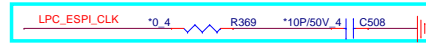
ESPI+EC+APS debug conn on MB

debug_CONN_30P

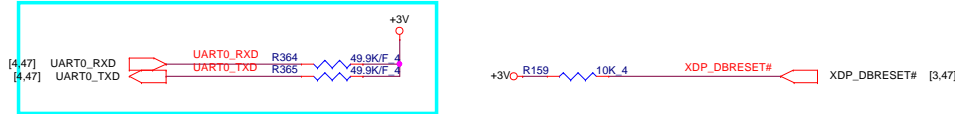
CN14



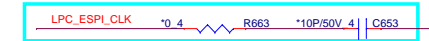
For EMI reserved



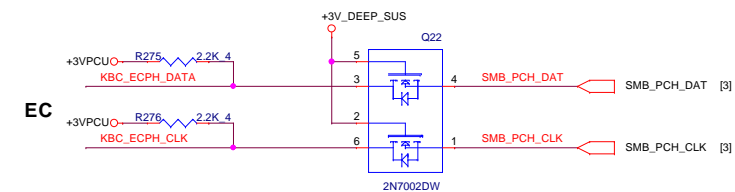
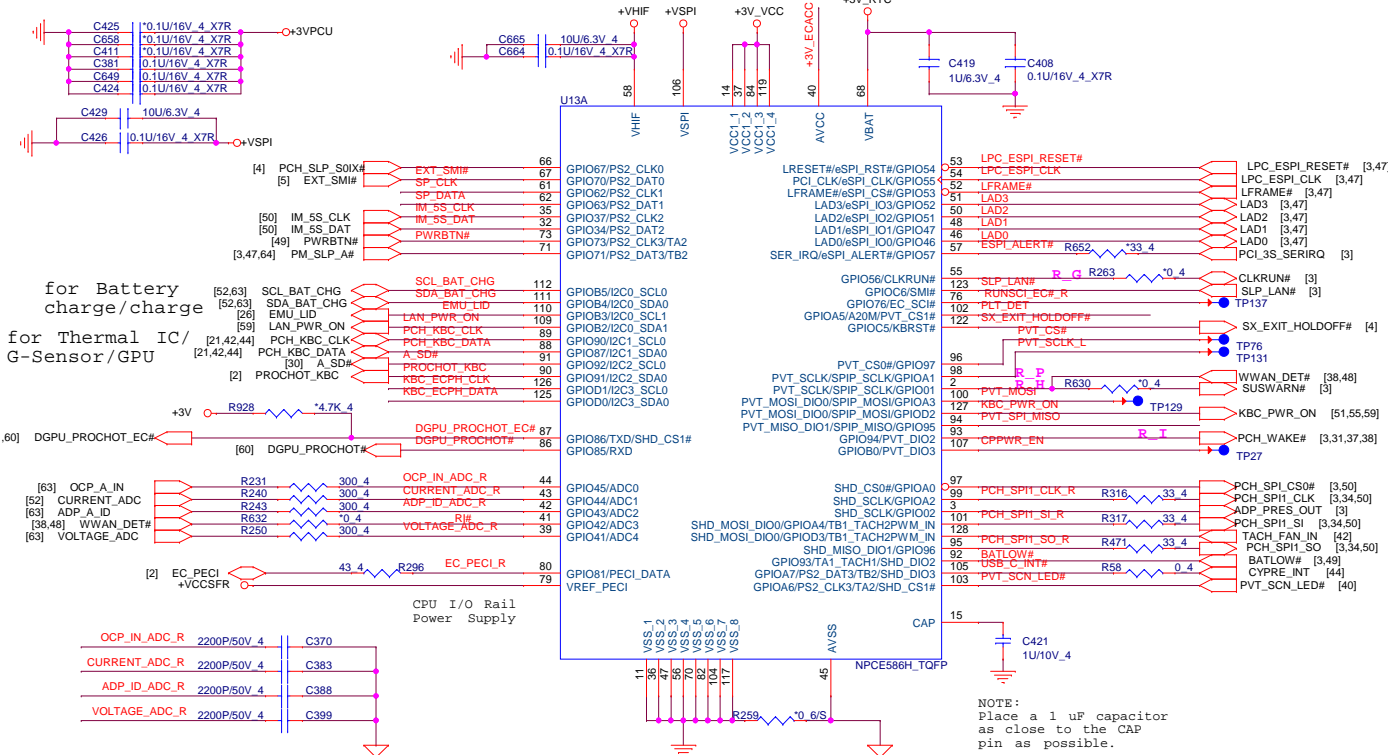
For check list



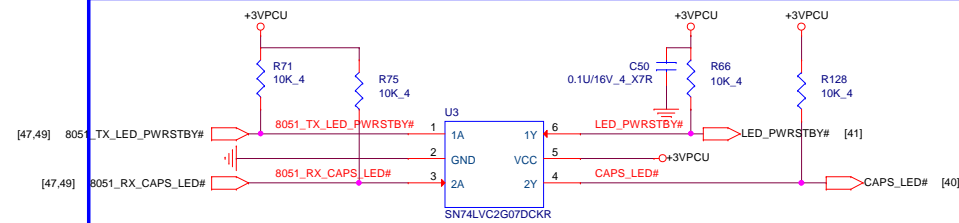
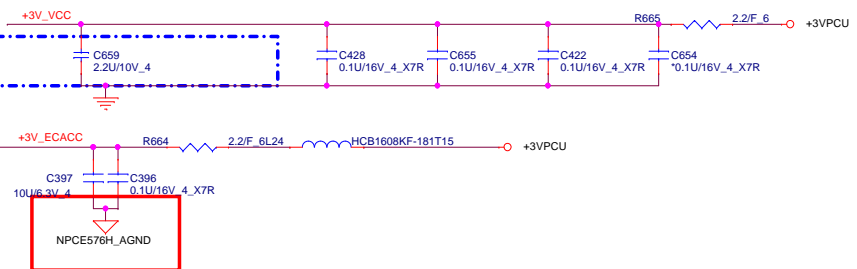
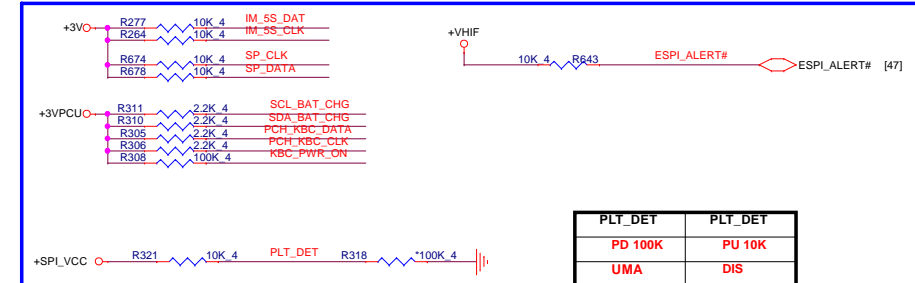
For EMI reserved



	eSPI Mode	LPC Mode
R263 R_G	Un-Install	Install
R630 R_H	Un-Install	Install
R307 R_I	Un-Install	Install
R631 R_P	Install	Un-Install



NOTE:
Place a 1 uF capacitor
as close to the CAP
pin as possible.

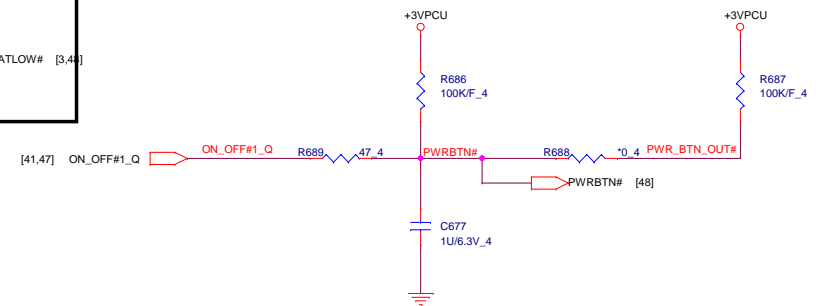
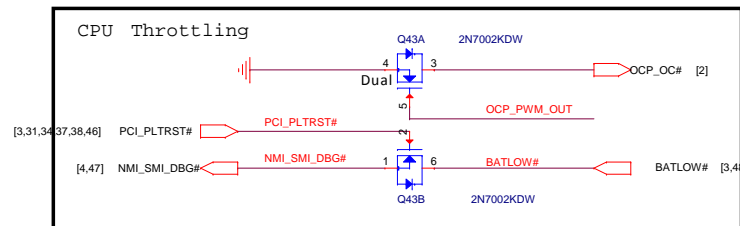
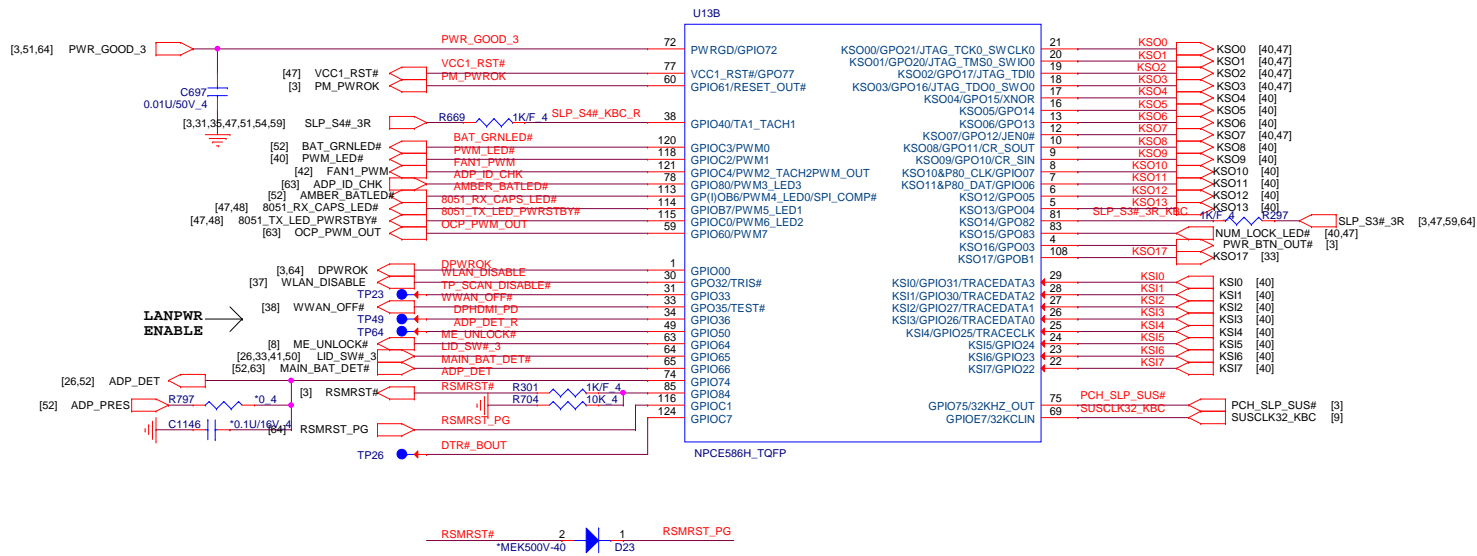


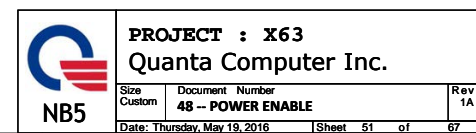
PROJECT : X63
Quanta Computer Inc.

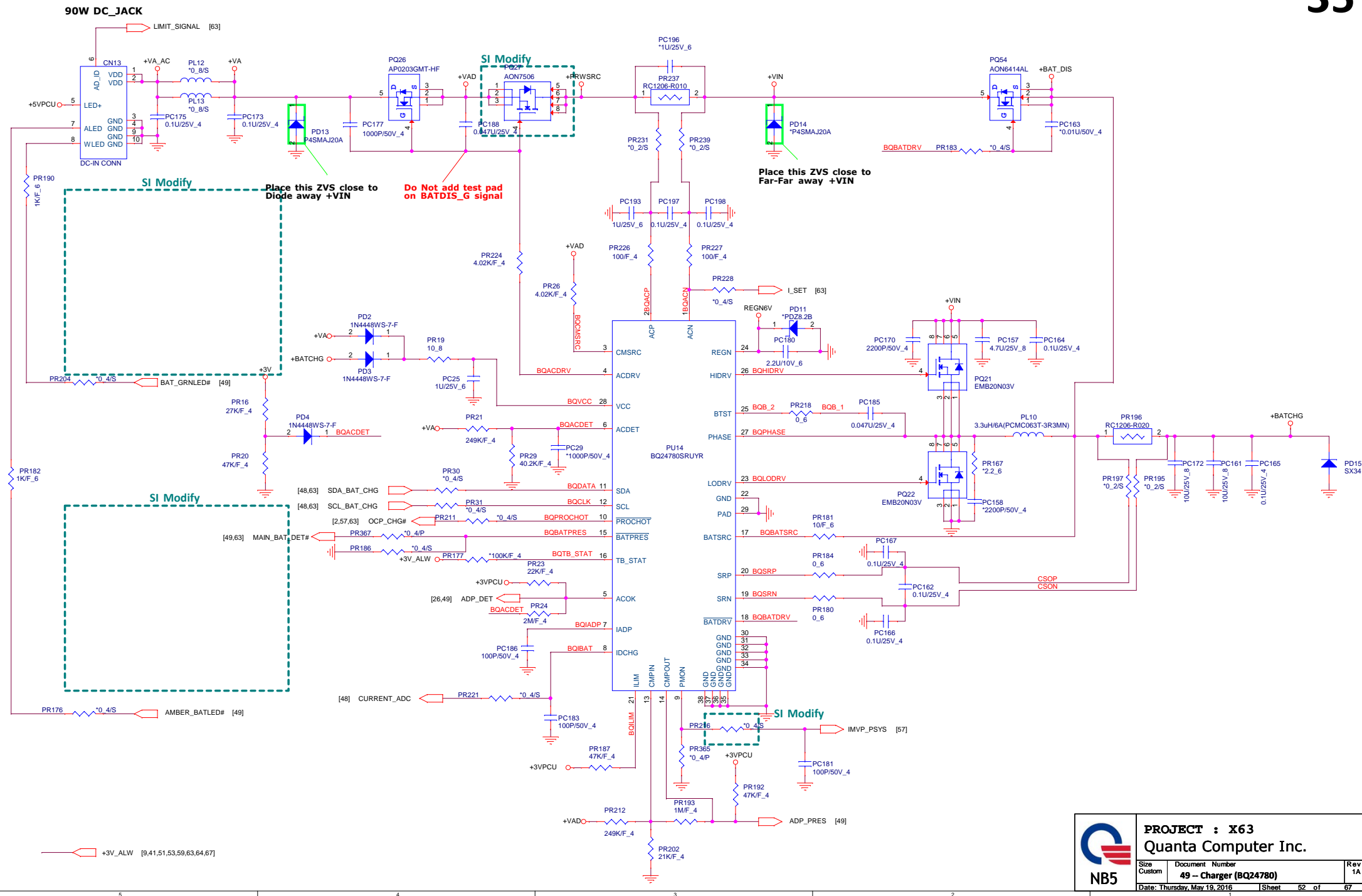
Size	Document Number	Rev
Custom	45 - EC Nuoton NPCE586H_1	1A
Date: Thursday, May 19, 2016	Sheet 48 of 67	

[2,3,4,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,42,43,46,47,50,52,57,59,60,64,67]
[9,41,51,52,53,59,63,64,67]

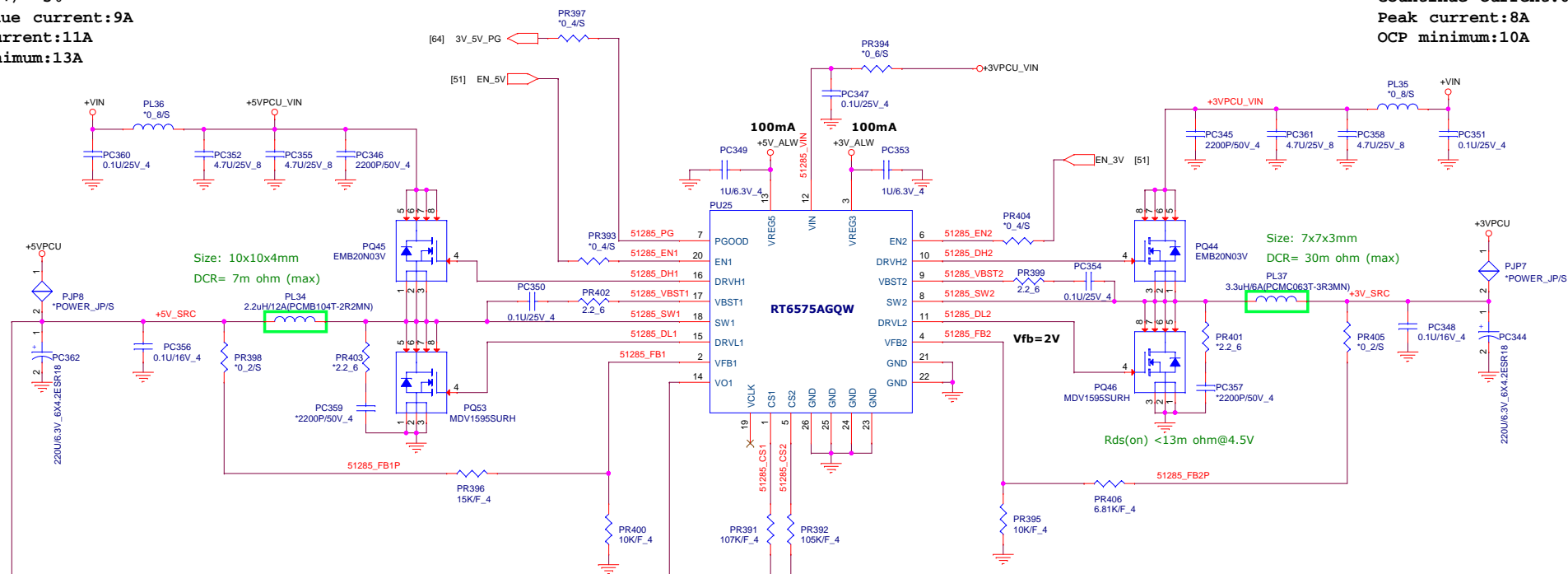
+3V
+3V_ALW

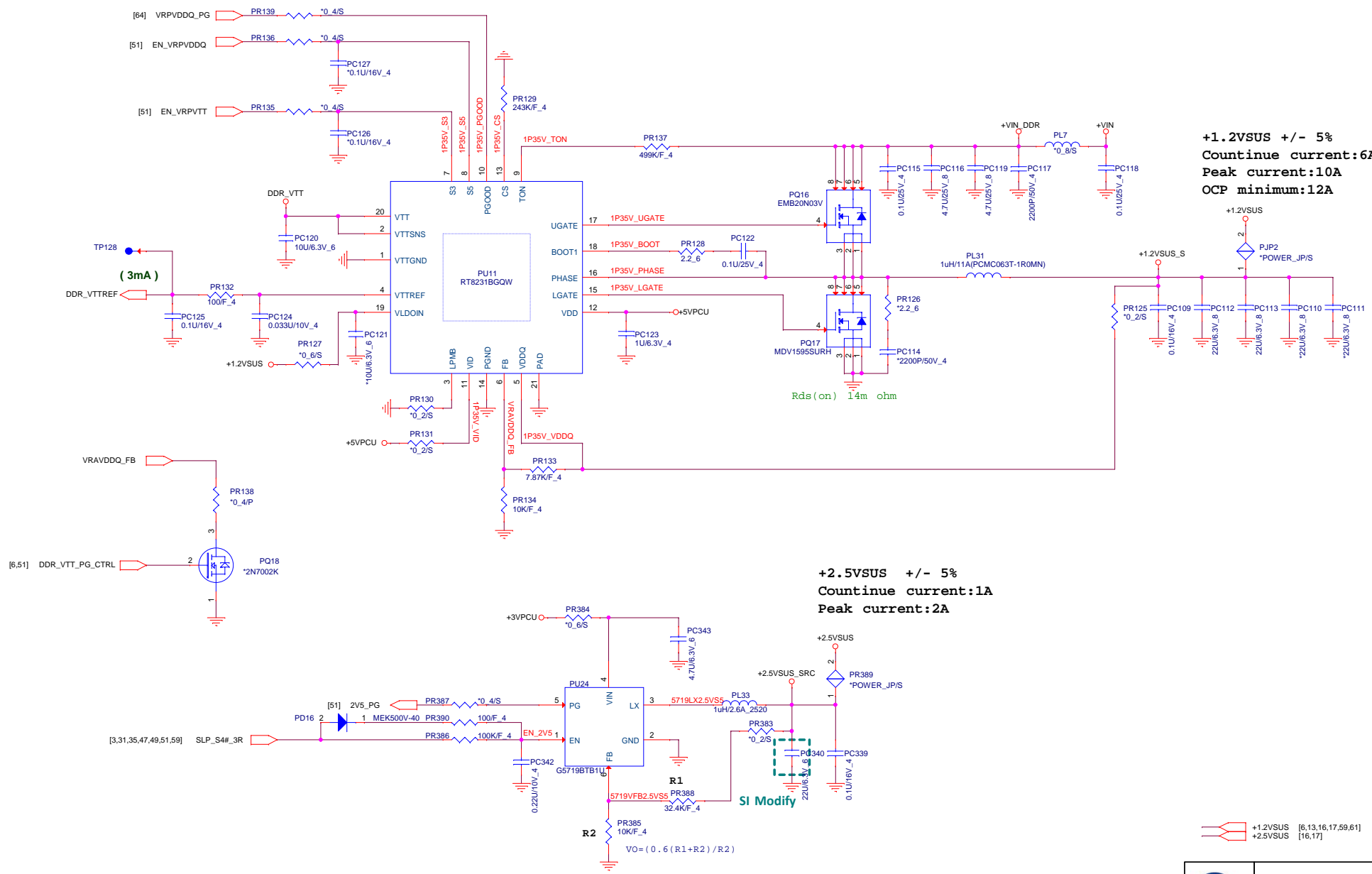






+3VPCU +/- 5%
Countinue current:6A
Peak current:8A
OCP minimum:10A

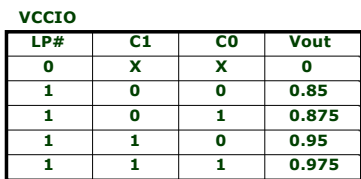
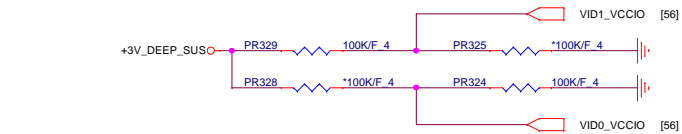




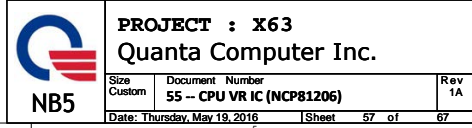
+1.2VSUS [6,13,16,17,59,61]
+2.5VSUS [16,17]

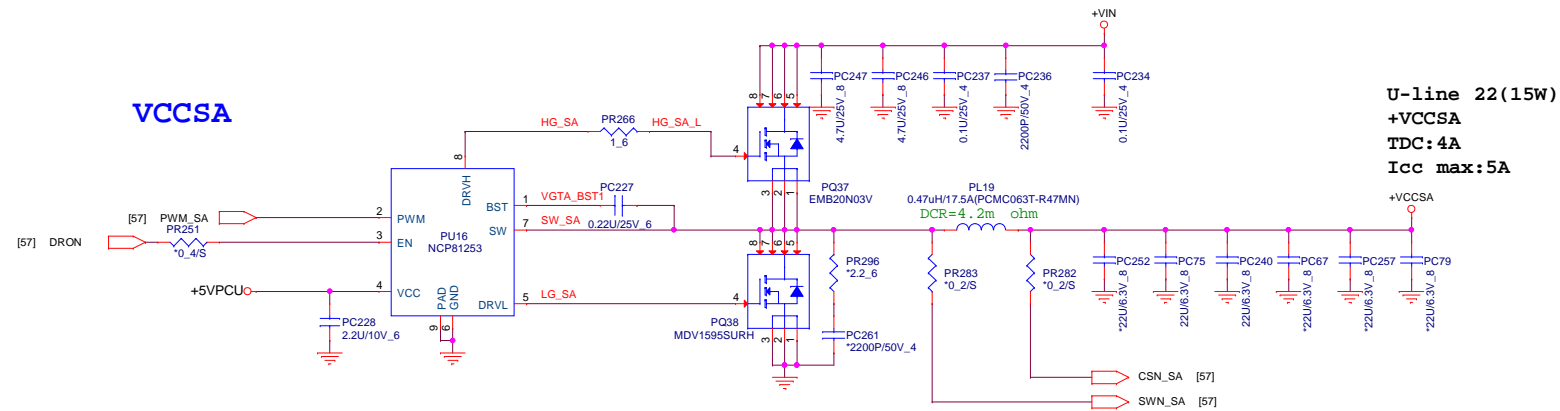


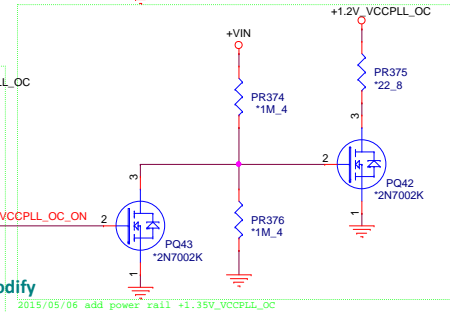
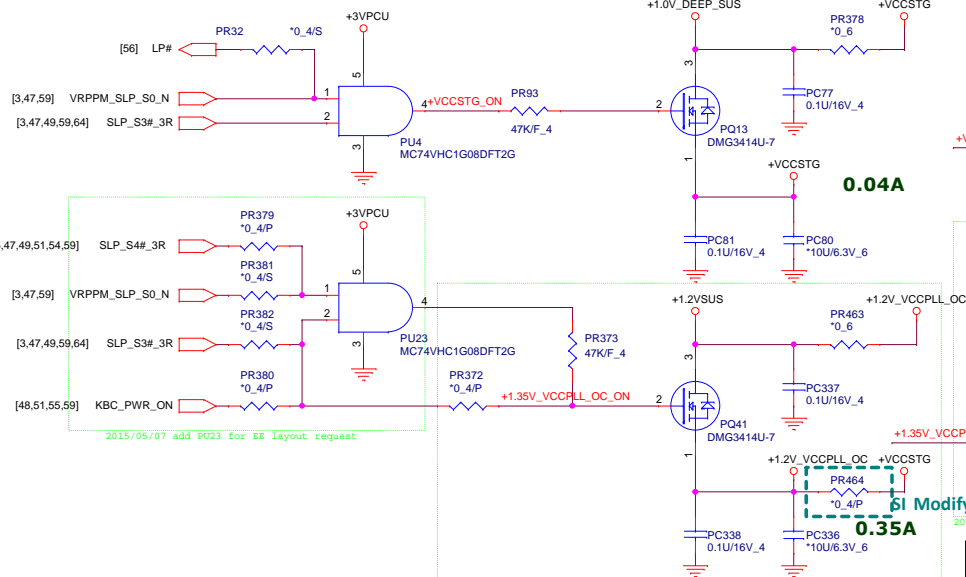
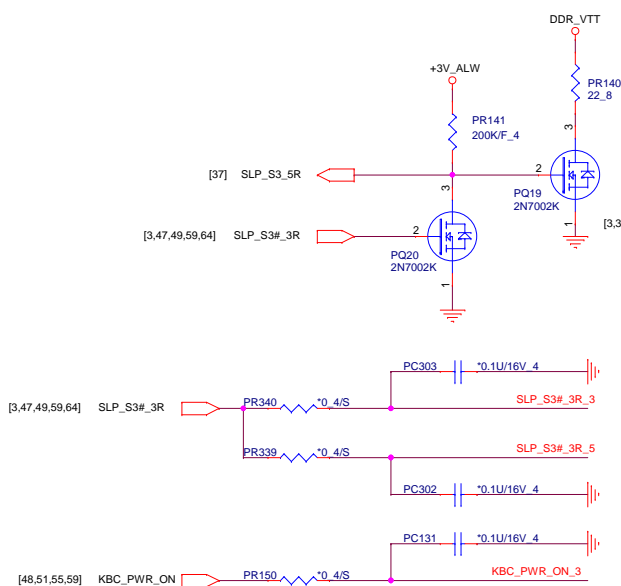
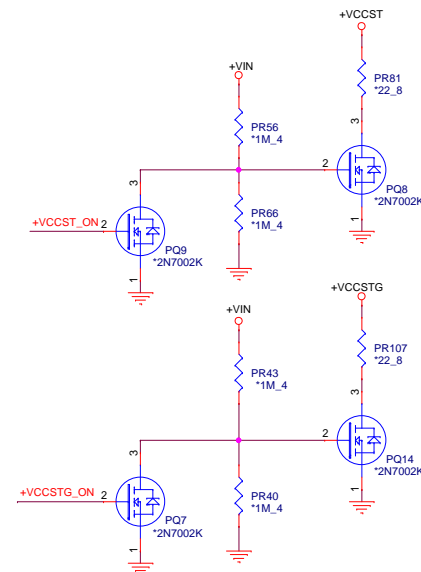
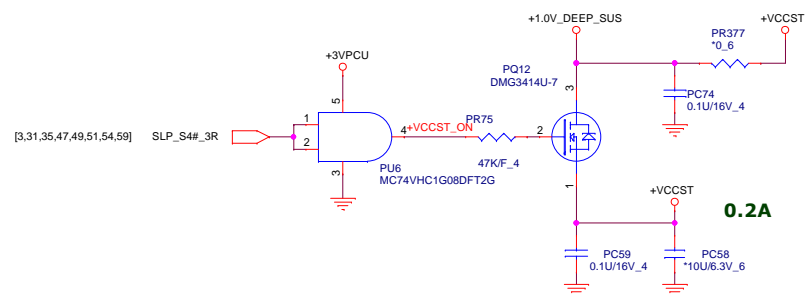
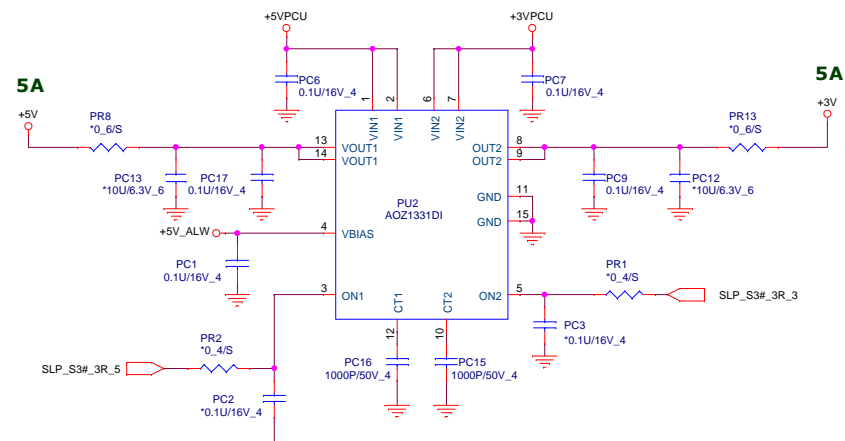
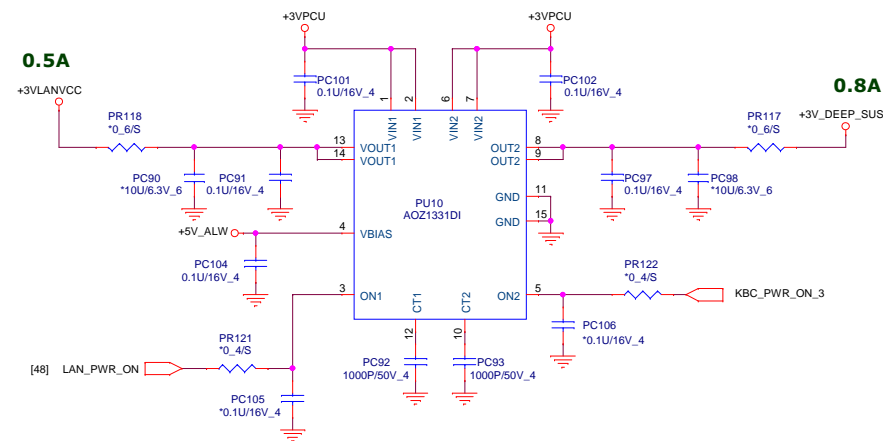
2



MODE		
	VR rail	Resistor
M1	VCCIO	0
M2	PRIMCORE	Float
M3	EDRAM/EOPPIO	100K
M4	other	150K







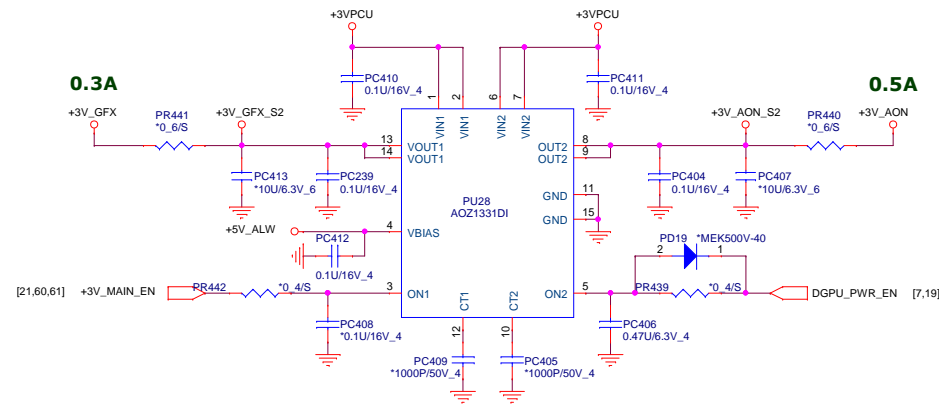
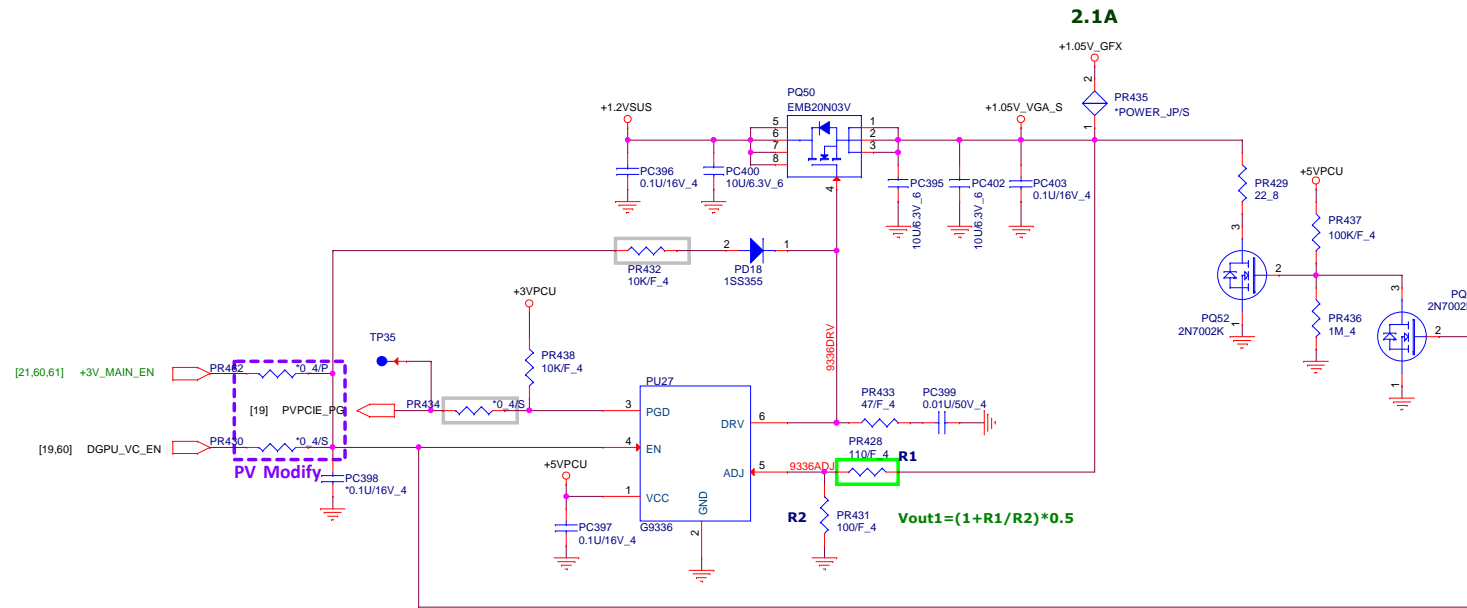
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 [8,27,29,30,40,42,43,55,64,67]
 [26,43,47,52,53,54,55,56,57,58,60,62,67]
 [3,10,33,37,38,40,41,42,44,47,48,49,51,52,53,54,56,61,63,64,67]
 [31,35,44,45,46,47,52,53,54,55,57,58,60,61,62,64,67]
 [31]



PROJECT : X63
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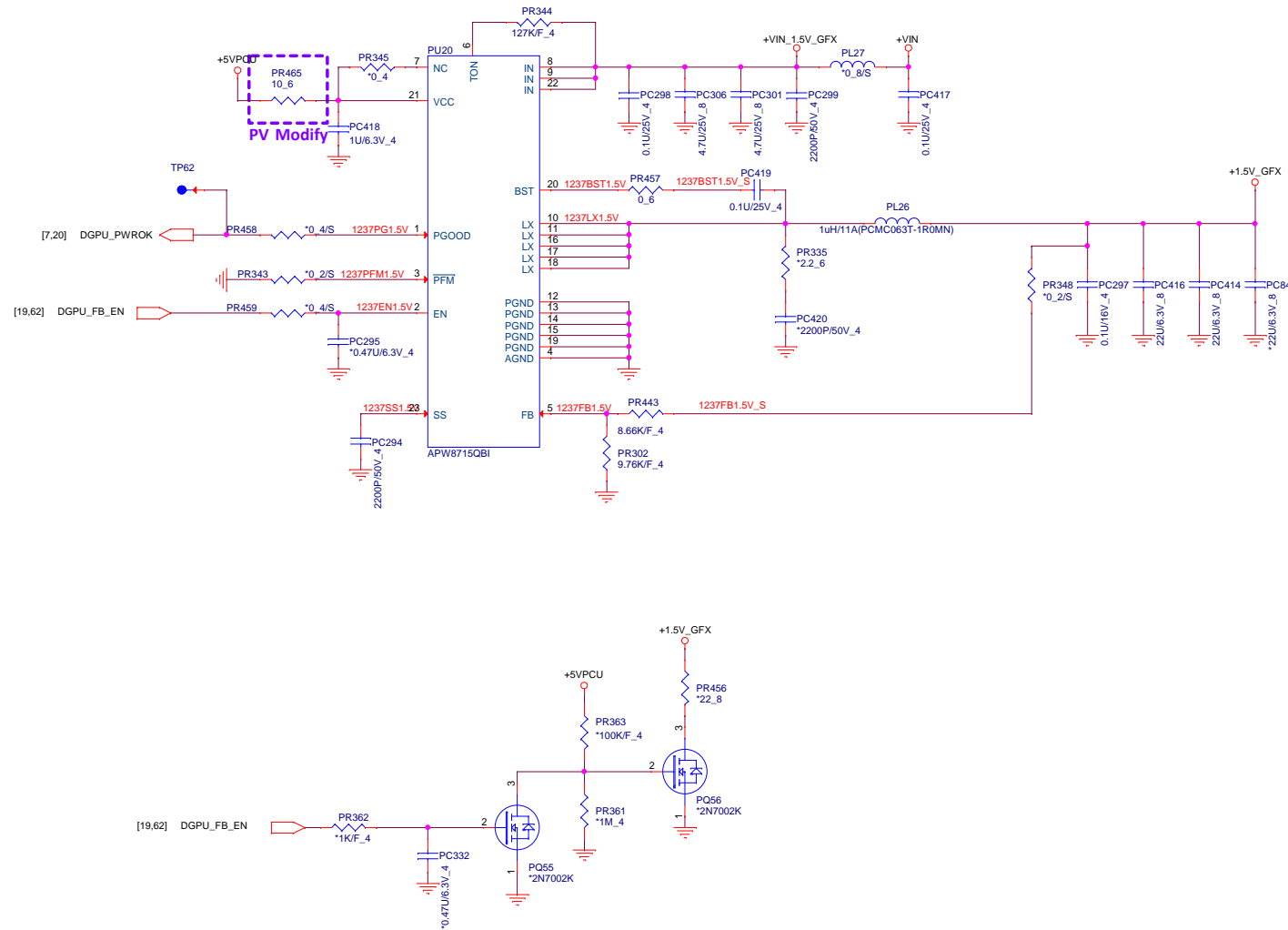
Size Custom Document Number 57 -- Load switch IC (APL3523A) Rev 1A

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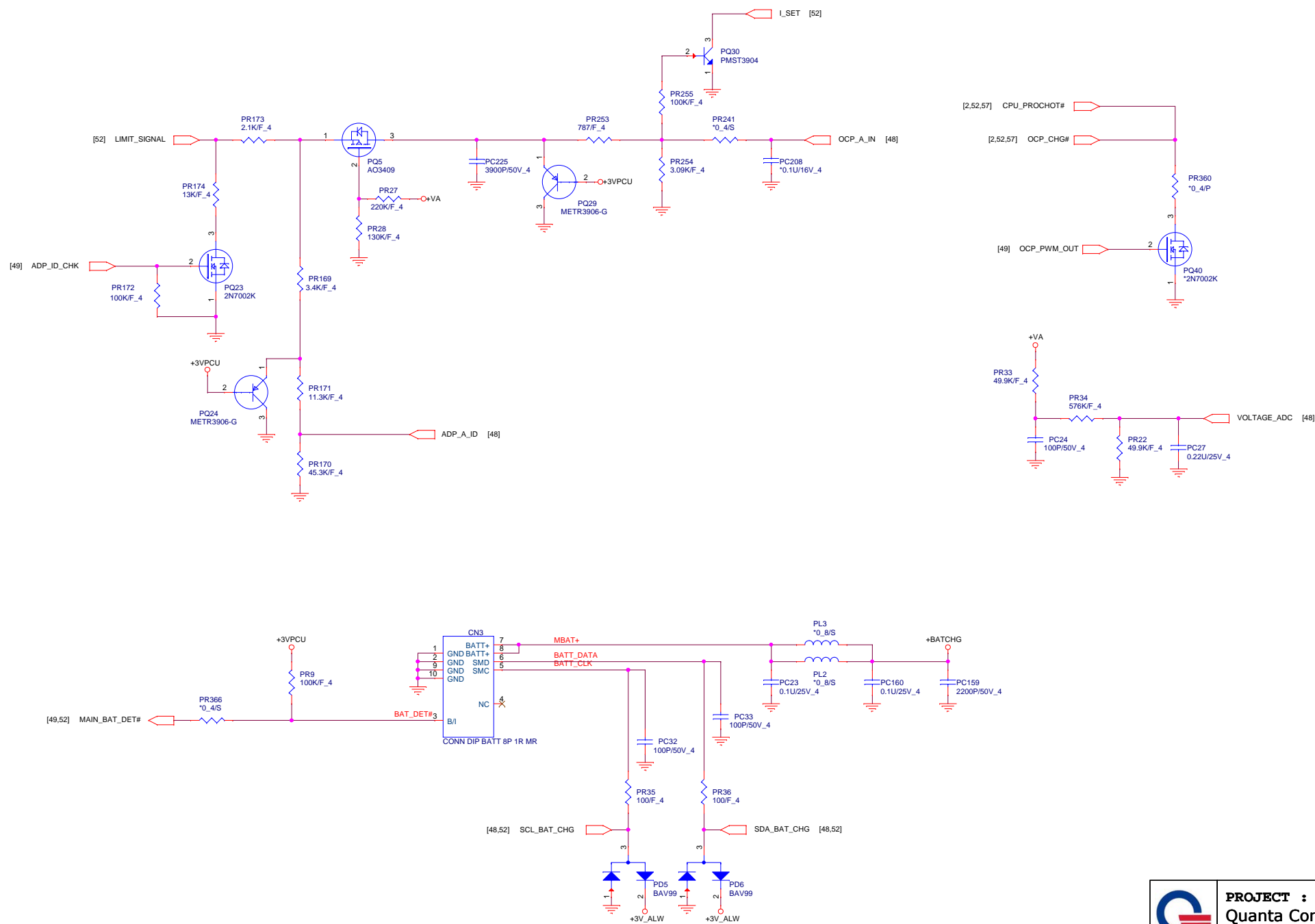


PROJECT : X63
Quanta Computer Inc.

Size	Document Number	Rev
Custom	60 -- +1.0V_VGA/1.8V_VGA/3V_VGA	1A
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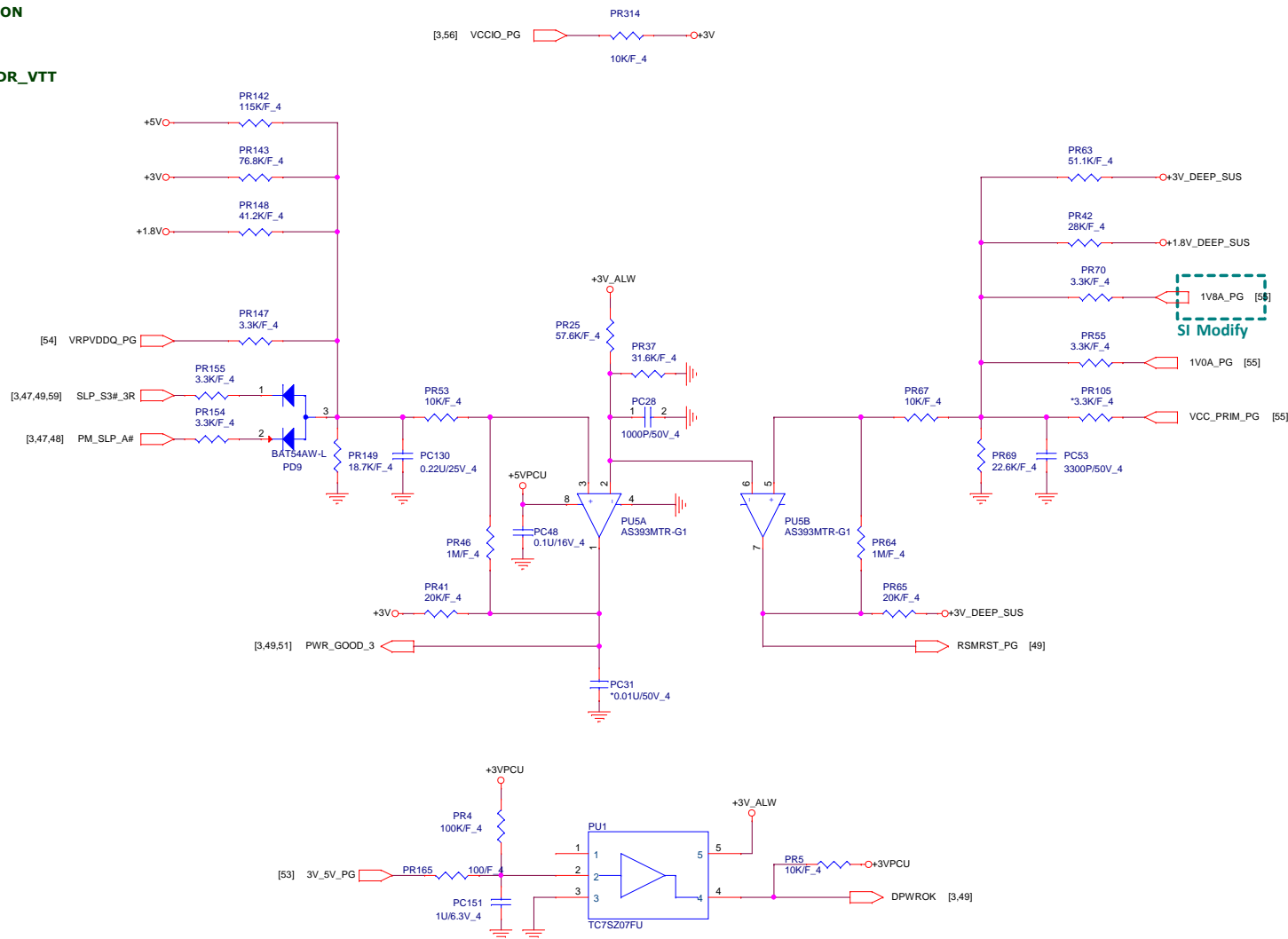


Adapter OCP




POK CKT

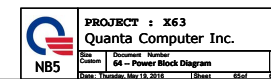
PM_SLP_S4# = SUSON
 PM_SLP_S3# = MAINON
 +V5S = +5V
 +V3S = +3V
 +V0.75S = +0.75V_DDR_VTT



[2,3,4,5,7,8,9,10,16,17,18,19,20,24,26,27,29,30,31,33,34,36,38,39,42,43,46,47,48,50,52,57,59,60,67]
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 [9,41,51,52,53,59,63,67]

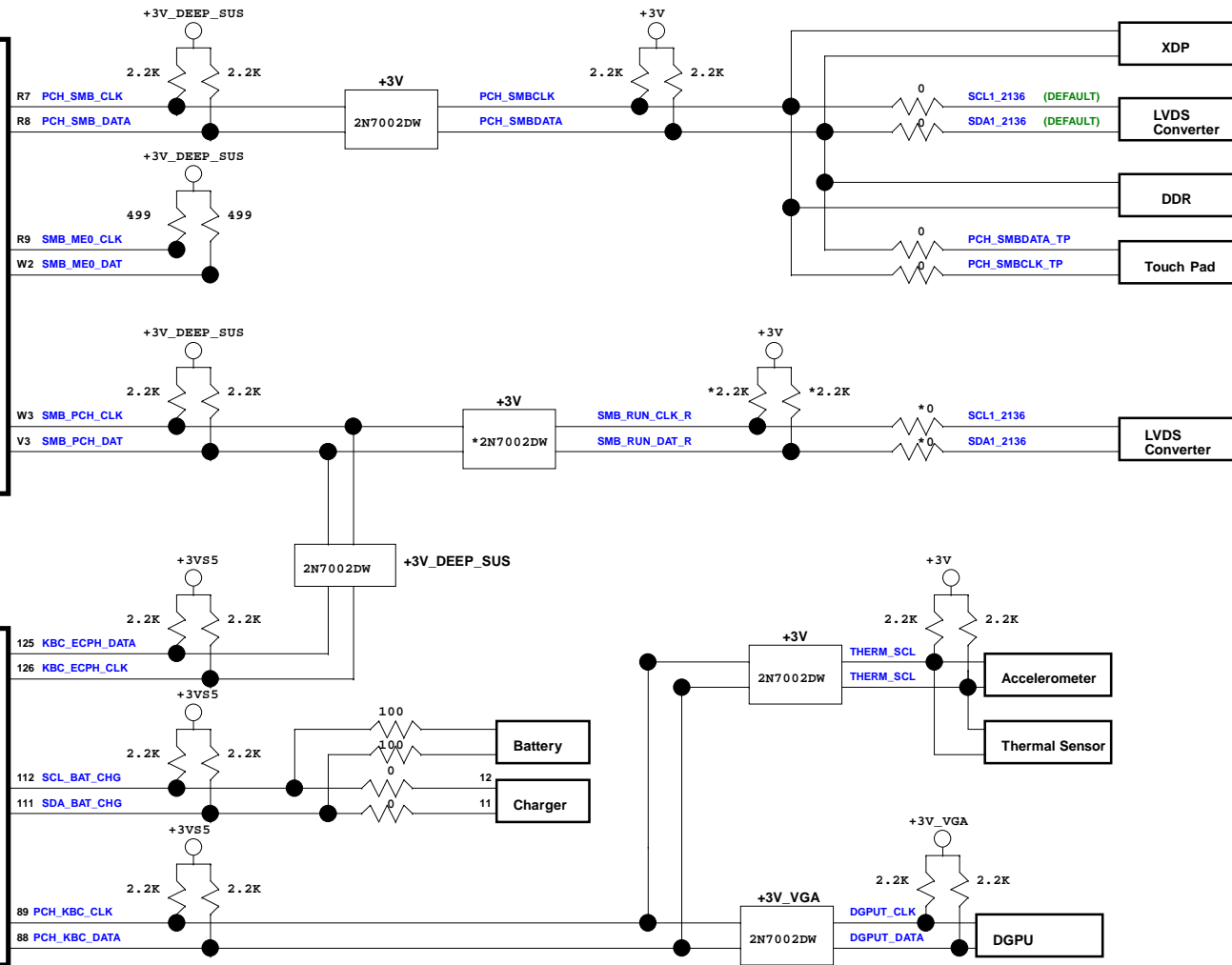
+3V
 +5V
 +3V_ALW

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	Quanta Computer Inc.		
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SKYLAKE U

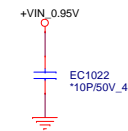
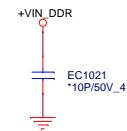
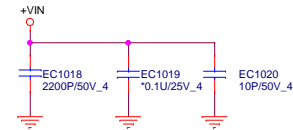
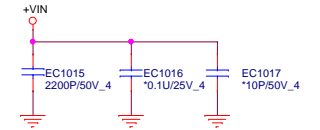
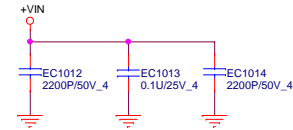
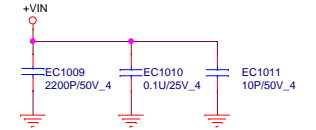
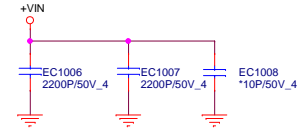
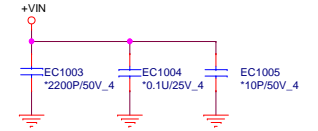
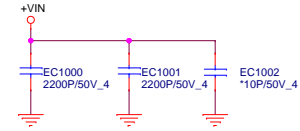
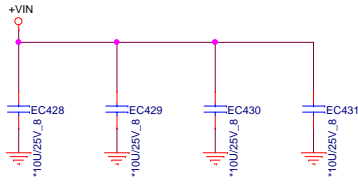
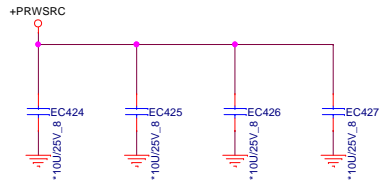
EC
NPCE586H



Example: *499/F_4 and *0_6/S
 * means none-installed
 499 means value
 F means 1%
 _4 means 0402 size
 /S means short pad

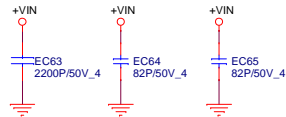
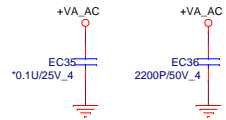
Mult i plexed HSIO Lane	Port Assignment
USB3 #1	USB2.0/USB3.0 Combo Jack(Lef t s i de do wn)
USB3 #2 / SSIC #1	USB2.0/USB3.0 Combo Jack(Lef t s i de up)
USB3 #3 / SSIC #2	NC
USB3 #4	NC
PCIE1 / USB3 #5	dGPU
PCIE2 / USB3 #6	dGPU
PCIE3	dGPU
PCIE4	dGPU
PCIE5	LAN
PCIE6	WLAN
PCIE7 / SATA #0	HDD (SATA)
PCIE8 / SATA #1	ODD (SATA)
PCIE9	Cardreader (PCIE)
PCIE10	NC
PCIE11 / SATA #1*	NC
PCIE12 / SATA #2	SSD (SATA)

USB2.0	Port Assignment
USB2 #1	USB2.0/USB3.0 Combo Jack(Lef t s i de do wn)
USB2 #2	USB2.0/USB3.0 Combo Jack(Lef t s i de up)
USB2 #3	WWAN
USB2 #4	USB2.0(Right side on USB Board)
USB2 #5	USB2.0(Right side on USB Board)
USB2 #6	Touch Screen
USB2 #7	Bluetooth
USB2 #8	Finger Print
USB2 #9	Camera
USB2 #10	NC

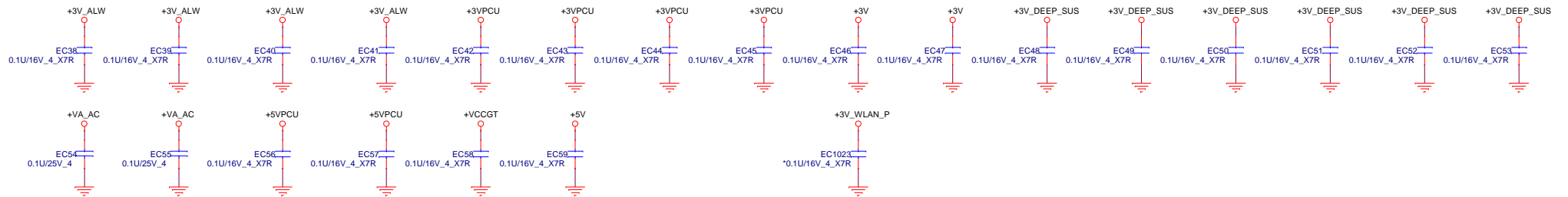


EMI cap

RF cap



EMI cap



Title <Title>				
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