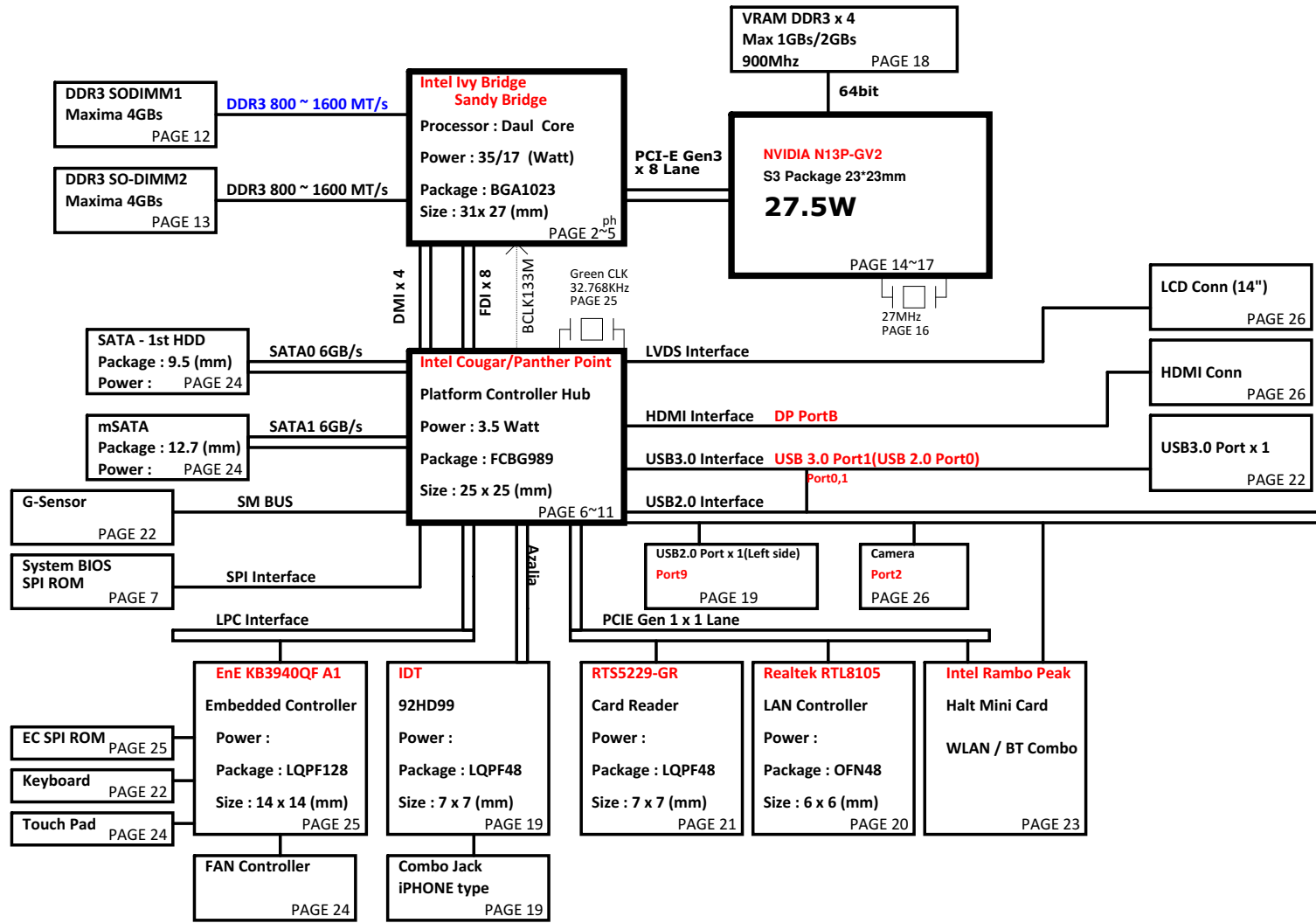


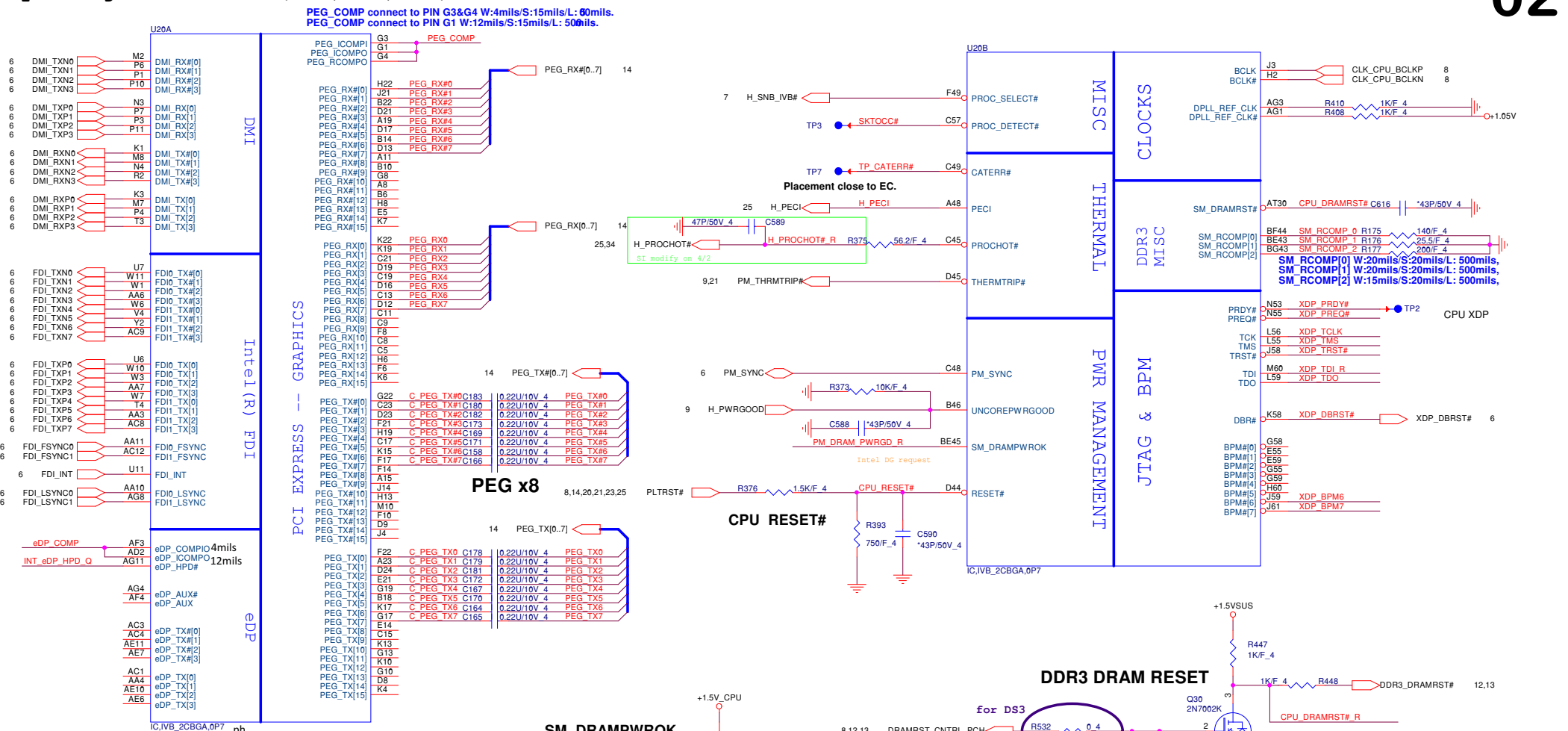
Volks DIS/UMA (14"/15.6") Ultra/Slim Intel Chief River Platform Block Diagram



PCB 6L STACK UP

LAYER 1 : TOP
 LAYER 2 : SGND
 LAYER 3 : IN1(High)
 LAYER 4 : IN2(Low)
 LAYER 5 : SVCC
 LAYER 6 : BOT

- Power Source**
- BQ24738**
System Charge Power (+BATCHG)
 - Richtek RT8223P**
System Power (+3VPCU/+5VPCU/+3VS5/+5VS5)
 - NCP6132/NCP5911/RT8240P/TP551462RGER**
Processor Power (+VCC_CORE/+1.05_VTT/+VCCSA)
 - SLG55448V**
System Discharge Power (+1.5V/+3V/+5V)
 - Richtek RT8207**
System Memory Power (+1.5VSUS/+0.75V_DDR_VTT)
 - NCP3218G**
GPU core power(+VGACORE)



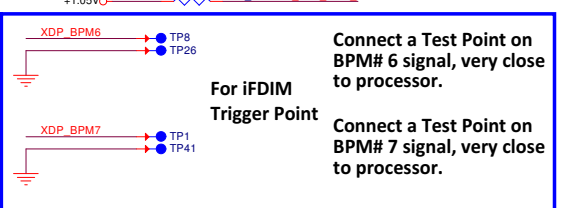
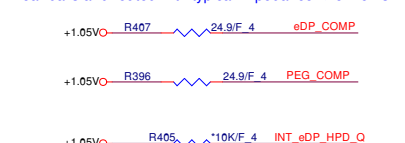
PEG_COMP connect to PIN G3&G4 W:4mils/S:15mils/L: 60mils.
 PEG_COMP connect to PIN G1 W:12mils/S:15mils/L: 50mils.

PCI EXPRESS -- GRAPHICS

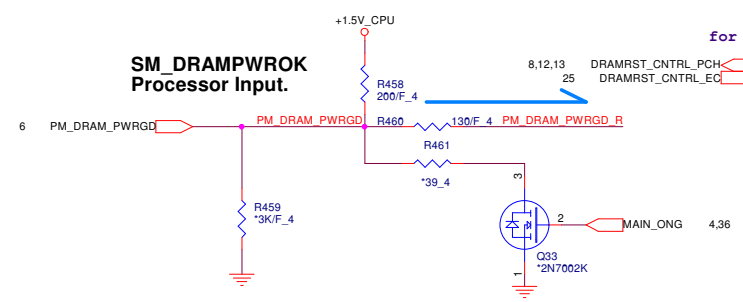
Intel(R) FDI

eDP

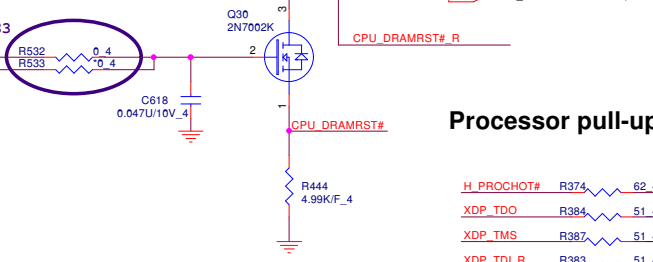
eDP_COMPIO and ICOMPO signals should be shorted near balls and routed with typical impedance <25 mΩ



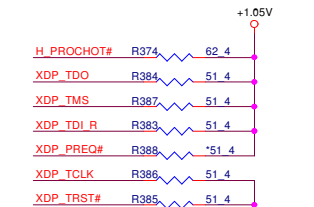
SM_DRAMPWROK Processor Input.



DDR3 DRAM RESET



Processor pull-up (CPU)

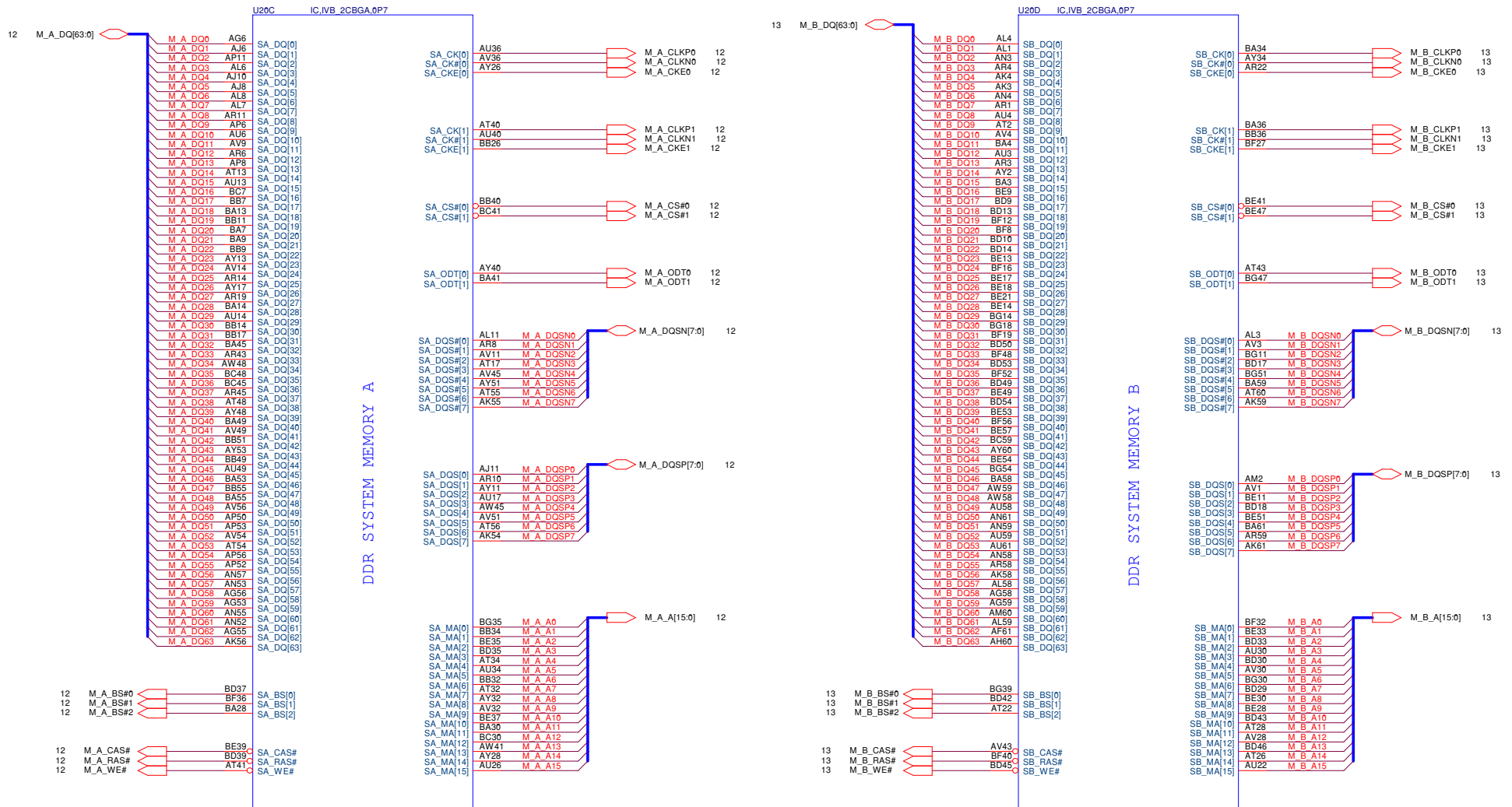


PROJECT : VOLKS
Quanta Computer Inc.

Size Custom Document Number Processor 1/4 (Host/GPU) Rev 1A
 Date: Wednesday, May 23, 2012 Sheet 2 of 37

NB5

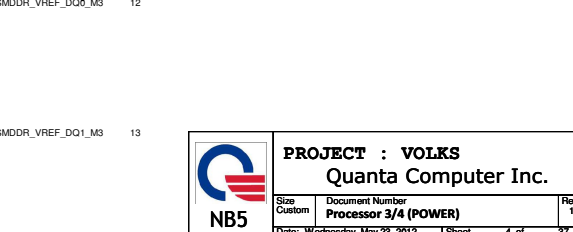
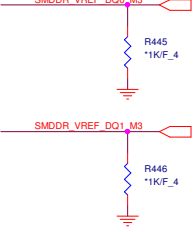
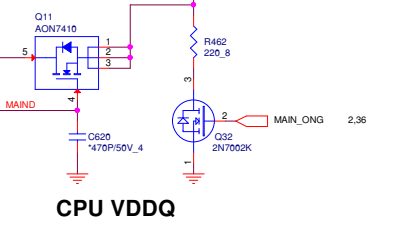
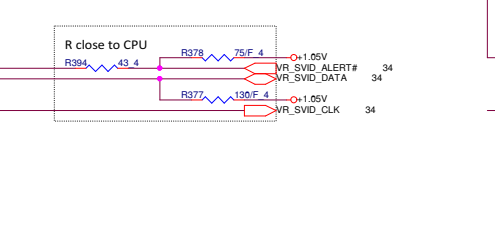
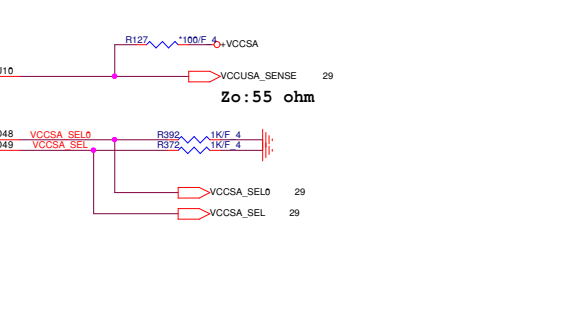
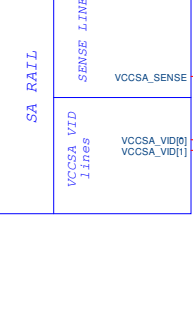
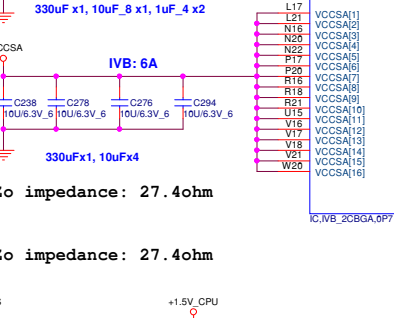
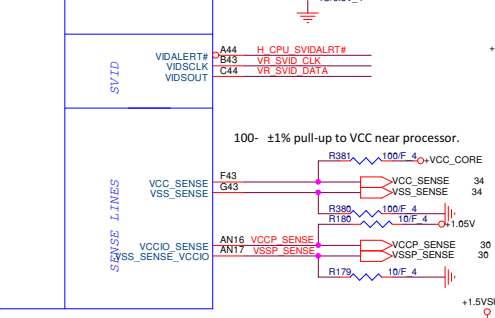
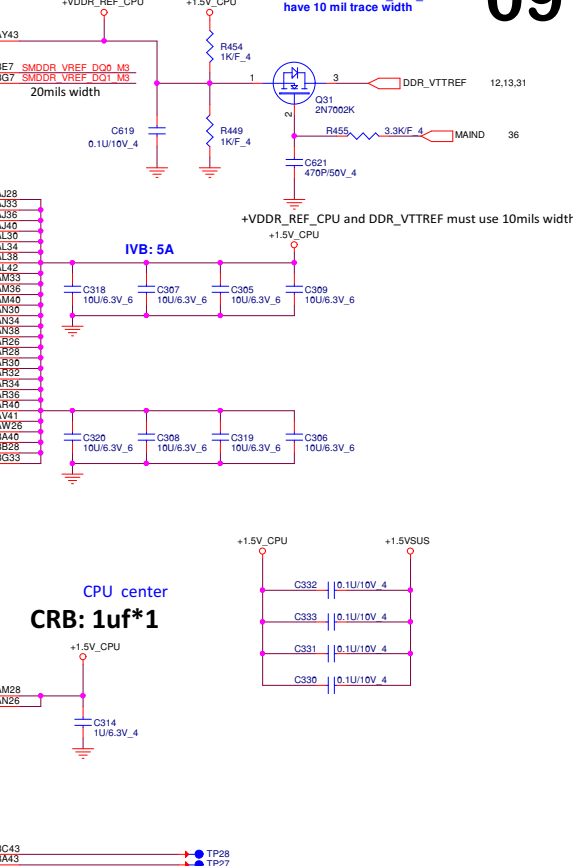
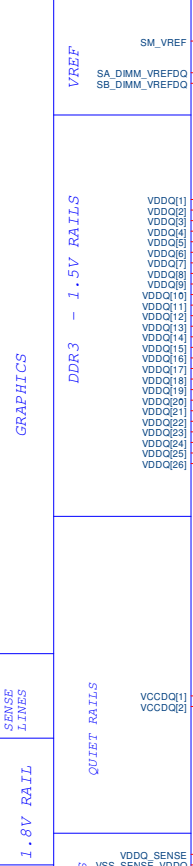
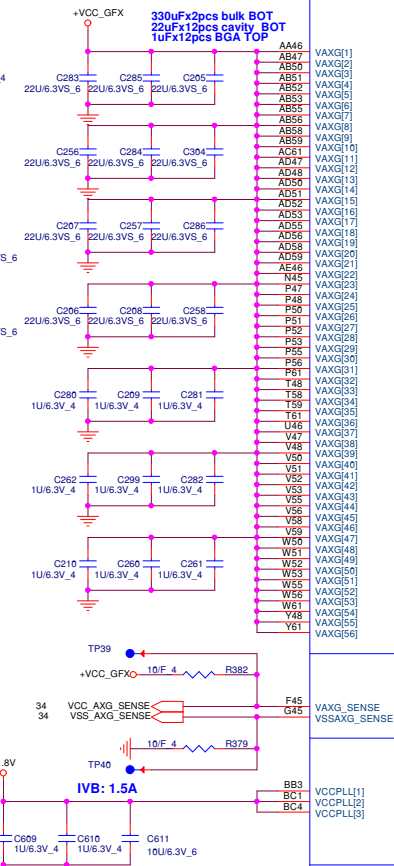
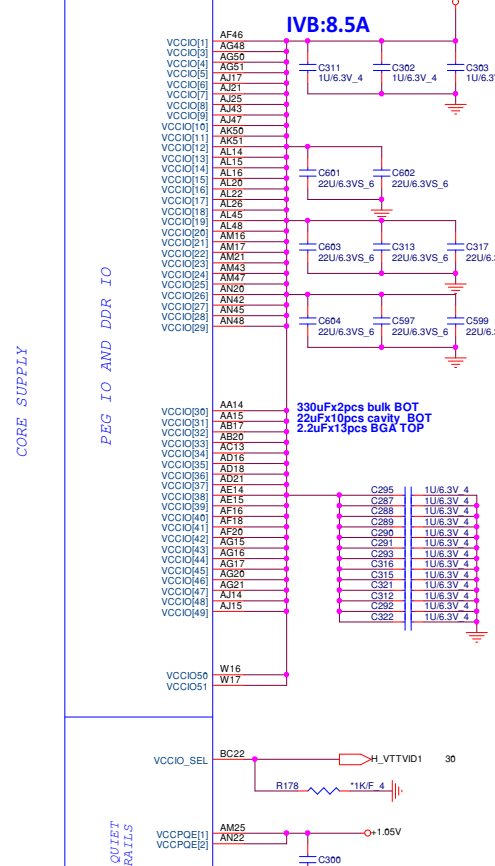
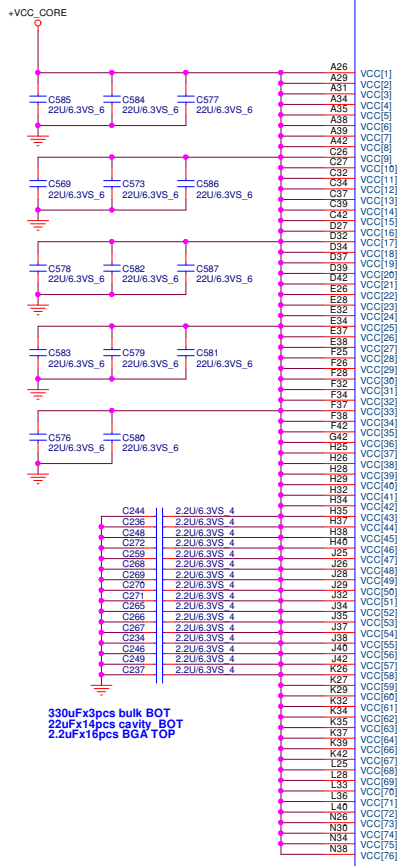
Ivy Bridge Processor (DDR3)



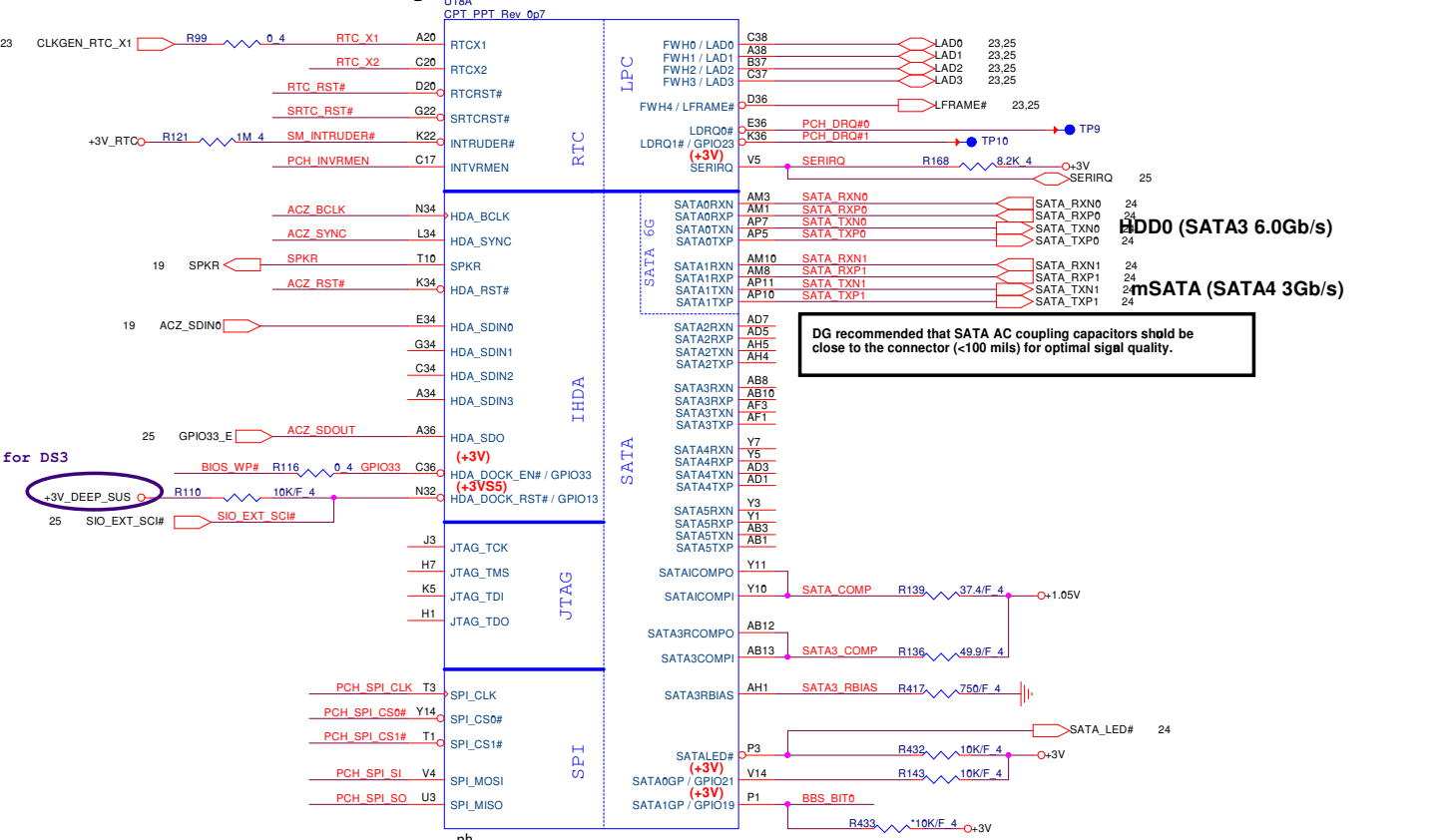
	PROJECT : VOLKS		Rev 1A
	Quanta Computer Inc.		
	Size Custom	Document Number Processor 2/5 (DDR3 I/F)	
Date: Wednesday, May 23, 2012		Sheet 3 of 37	

POWER

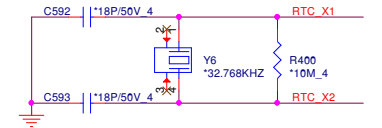
POWER



Cougar Point/Panther Point (HDA, JTAG, SATA)

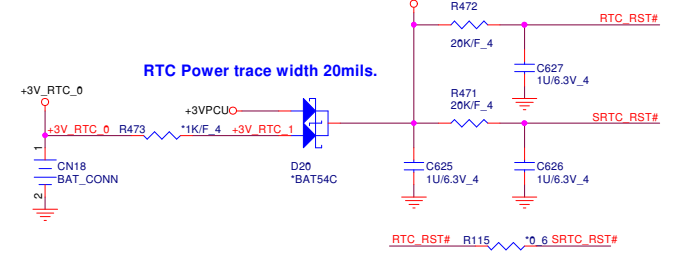


RTC Clock 32.768KHz

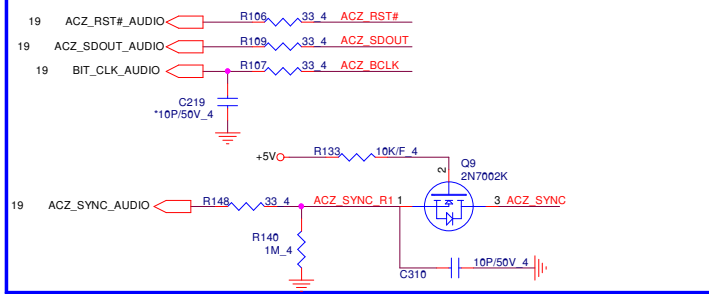


no stuff if use green Clock

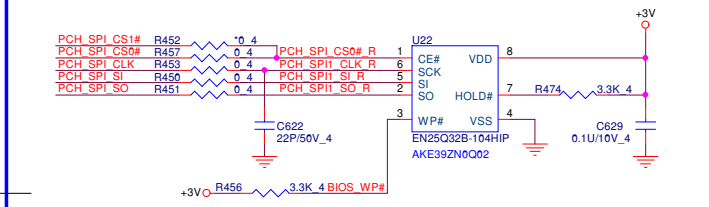
RTC Circuitry(RTC)



HDA Bus(CLG)



Vender	Size	P/N	PCH SPI ROM(CLG)
EON	4MB	AKE392N0Q02 (EN25Q32B-104HIP)	
MX	4MB	AKE39FP0Z02 (MX25L3206EM2I-12G)	
AMIC	4MB	AKE39F-0800 (A25LQ32AM-F/Q)	
Socket		DFHS08FS023	



PCH Strap Table

Pin Name	Strap description	Sampled	Configuration	Circuit
SPKR	No reboot mode setting	PWROK	0 = Default (weak pull-down 20K) 1 = Setting to No-Reboot mode	+3V ₀ R152 1K/F 4 SPKR
GNT3# / GPIO55	Top-Block Swap Override	PWROK	0 = "top-block swap" mode 1 = Default (weak pull-up 20K)	R363 1K/F 4 PCH_GNT3# 8 R364 10K/F 4
INTVRMEN	Integrated 1.05V VRM enable	ALWAYS	Should be always pull-up	+3V_RTC ₀ R122 330K 4 PCH_INVRMEN
HDA_DOCK_EN#/GPIO33	Flash Descriptor Security Only for Interposer	PWROK	0 = Override 1 = Default (weak pull-up 20K)	GPIO33 R104 1K/F 4 ACZ_SDOUT ACZ_SDOUT 25
GNT1# / GPIO51	Boot BIOS Selection 1 [bit-1]	PWROK	[Need external pull-down for LPC BIOS] Default weak pull-up on GNT0/1#	R419 1K/F 4 BBS_BIT0
GPIO19 <small>Different from Calpella</small>	Boot BIOS Selection 0 [bit-0]	PWROK		R354 1K/F 4 BBS_BIT1 8
GNT2# / GPIO53	ESI strap (Server only)	PWROK	Should not be pull-down (weak pull-up 20K)	USE GPIO PIN
NV_ALE	Intel Anti-Theft HDD protection Only for Interposer	PWROK	0 = Disable (Internal pull-down 20kohm)	+1.8V ₀ R416 1K/F 4 INV_ALE 8
NV_CLE	DMI Termination voltage	PWROK	weak pull-down 20kohm	+1.8V ₀ R415 2.2K 4 R414 1K/F 4 INV_CLE 9 H_SNB_IVB# 2
HDA_SYNC	On-Die PLL VR Voltage Select	RSMRST	0 = Support by 1.8V (weak pull-down) 1 = Support by 1.5V	for DS3 +3V_DEEP_SUS ₀ R135 1K/F 4 ACZ_SYNC
HDA_SDO	Flash Descriptor Security	PWROK	0 = Override 1 = Default (weak pull-up 20K)	+3V_DEEP_SUS ₀ R105 1K/F 4 ACZ_SDOUT
GPIO8	Integrated Clock Chip Enable	RSMRST#	Should be pull-down (weak pull-up 20K)	
GPIO28 <small>Different from Calpella</small>	On-die PLL Voltage Regulator	RSMRST#	0 = Disable 1 = Enable (Default)	
SPI_MOSI	ITPM function Disable	APWROK	0 = Default (weak pull-down 20K) 1 = Enable	

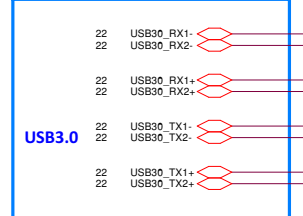
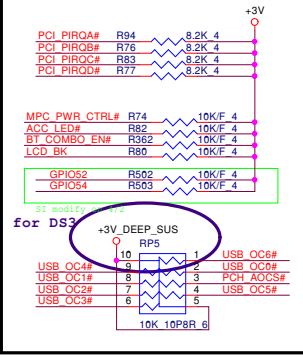
-3V 6,8,9,10,12,13,14,16,19,20,21,22,23,24,25,26,30,32,34,36
 +5V 10,19,21,22,23,24,26,36
 +1.8V 4,10,31
 +1.05V 2,4,6,8,10,21,23,30,33,34
 +3VS5 6,10,23,28,30,33,36
 +3VPCU 21,22,23,24,25,26,27,28
 +3V_RTC 6,10,23

PROJECT : VOLKS
Quanta Computer Inc.
 Size Custom Document Number PCH 2/6 (HDA/RTC/SATA/SPI) Rev 1A
 Date: Wednesday, May 23, 2012 Sheet 7 of 37

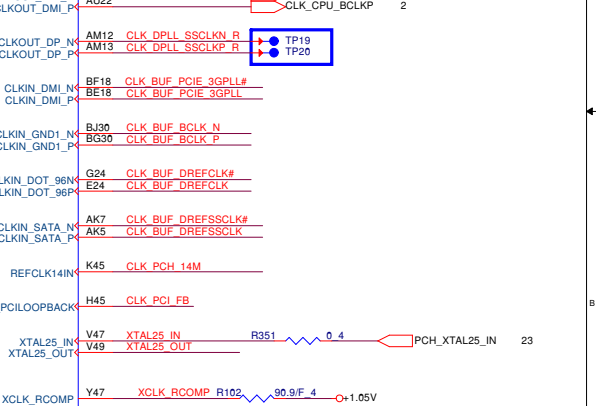
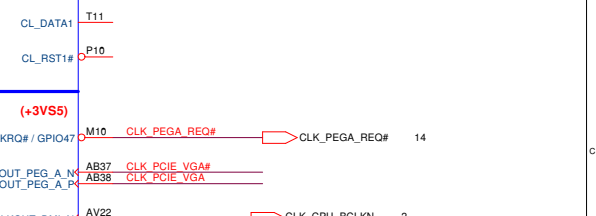
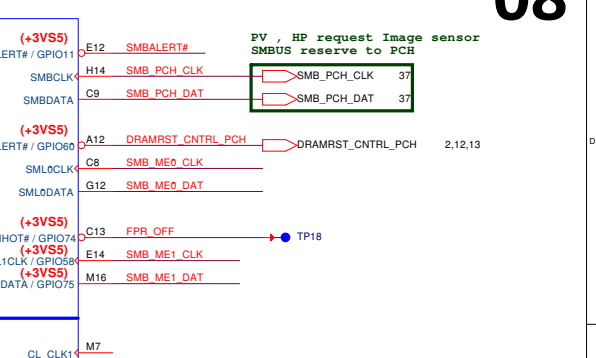
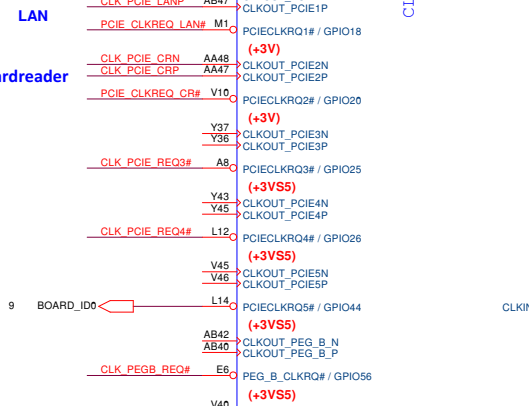
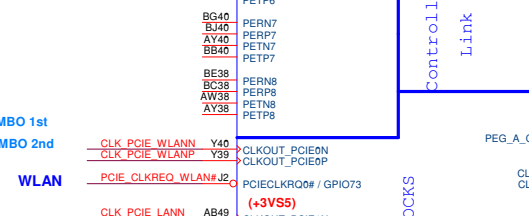
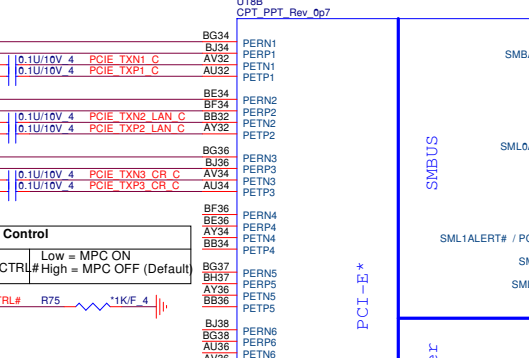
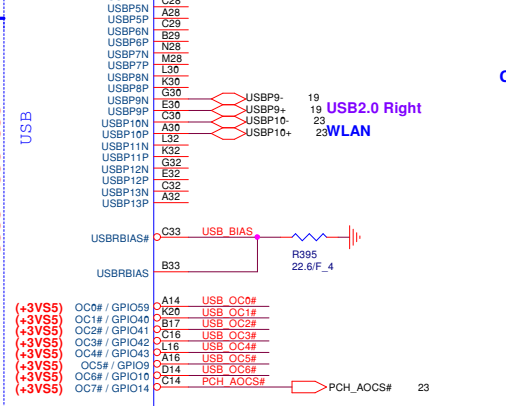
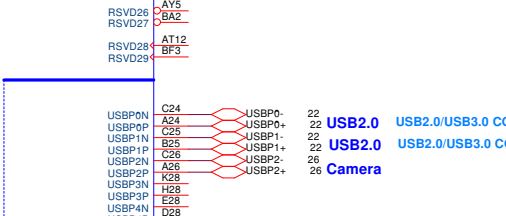
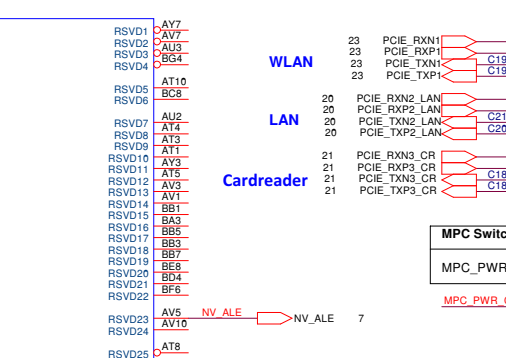
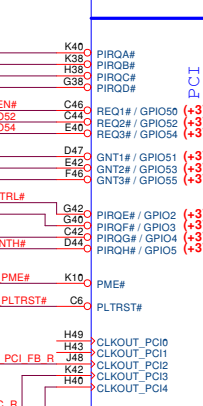
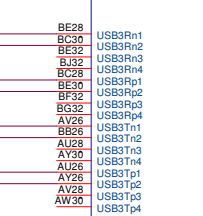
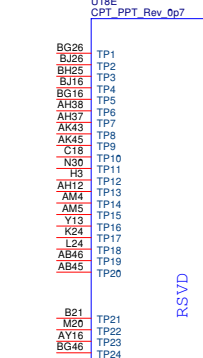
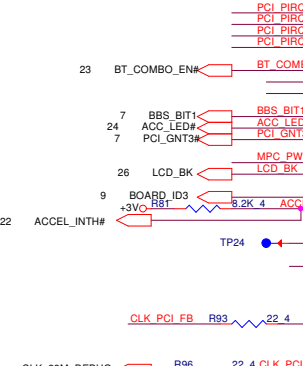
Cougar Point-M/Panther Point (PCI, USB, NVRAM)

Cougar Point-M/Panther Point (PCI-E, SMBUS, CLK)

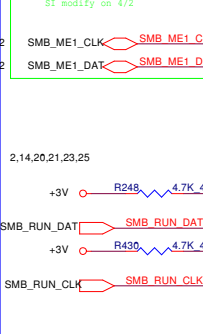
PCI/USBOC# Pull-up(CLG)



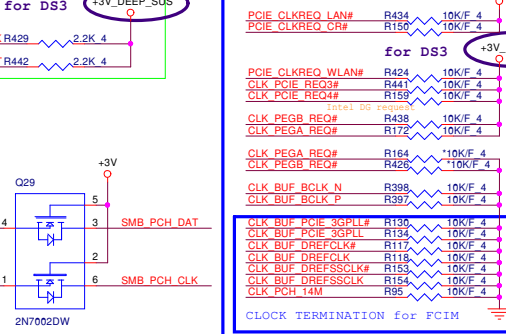
20111130 Modify USB3.0 for HM70



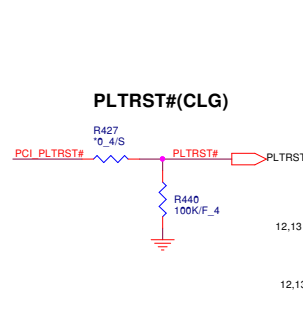
SMBus/Pull-up(CLG)



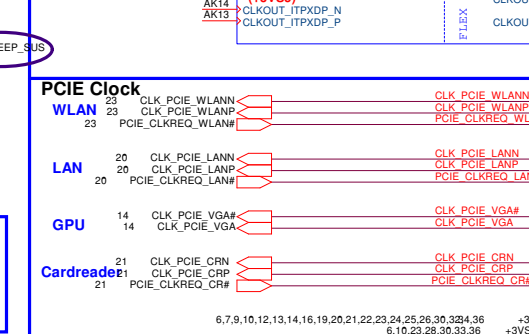
CLK_REQ/Strap Pin(CLG)



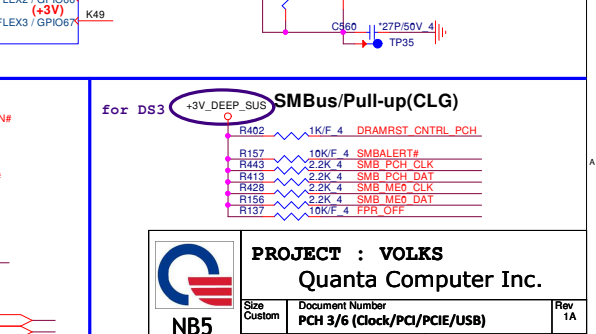
PLTRST#(CLG)



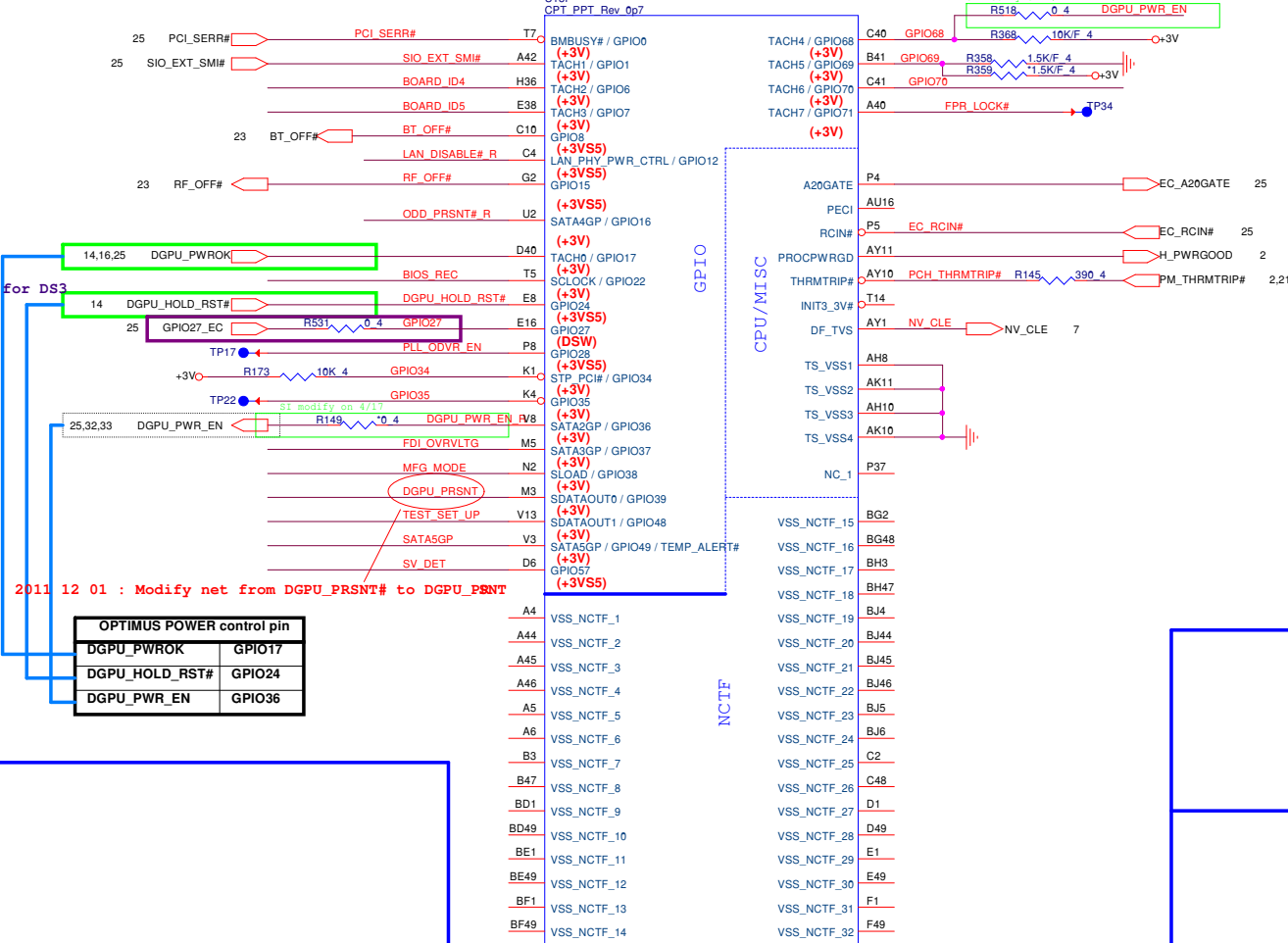
PCI-E Clock



SMBus/Pull-up(CLG)



Cougar Point/Panther Point (GPIO,VSS_NCTF,RSVD)

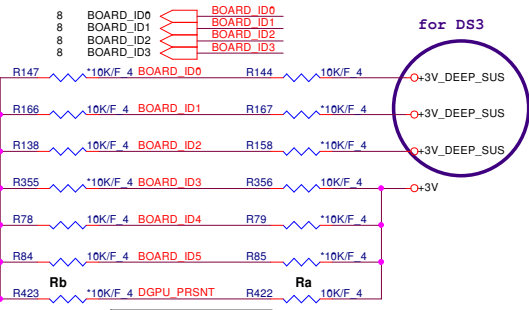


2011 12 01 : Modify net from DGPU_PRSNTR# to DGPU_PRSNTR

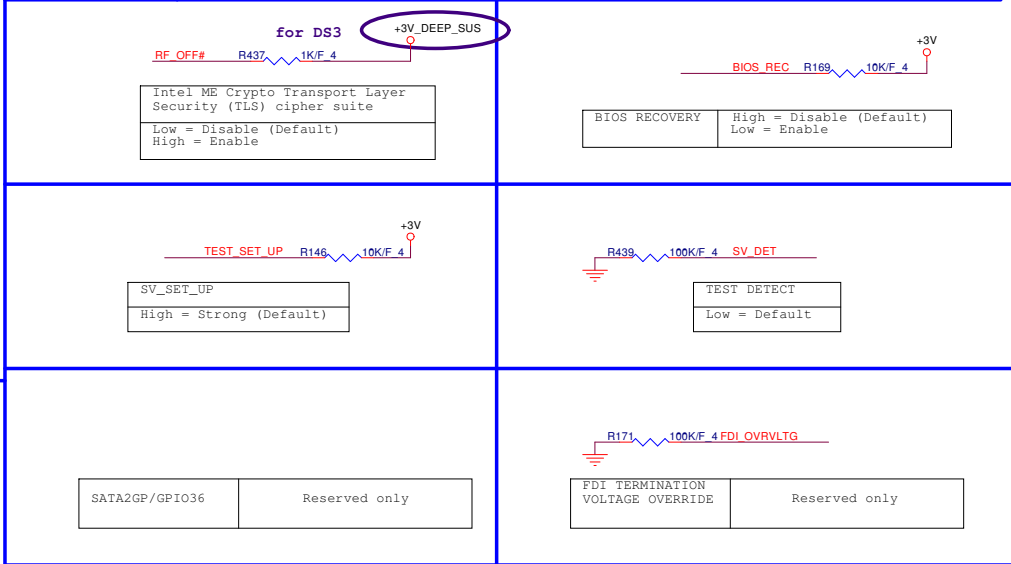
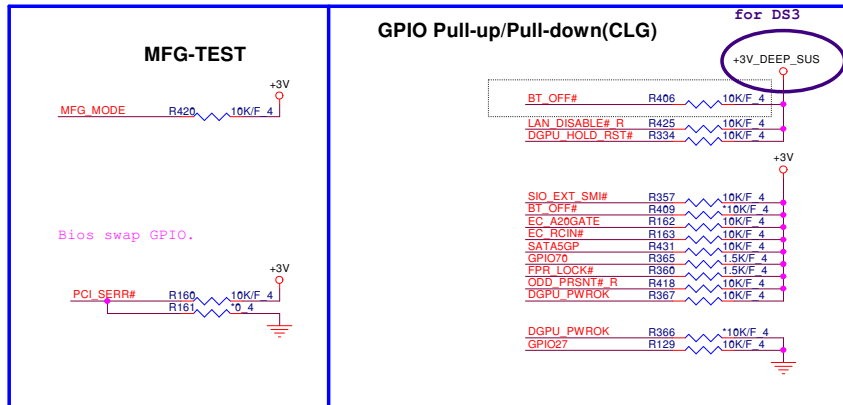
OPTIMUS POWER control pin	
DGPU_PWROK	GPIO17
DGPU_HOLD_RST#	GPIO24
DGPU_PWR_EN	GPIO36

Chief River BOARD ID SETTING

Model	BOARD_ID0	BOARD_ID1	BOARD_ID2	BOARD_ID3	BOARD_ID4	BOARD_ID5
U33 UMA	0	0	0	0	0	0
U33 DIS 128*16 VRAM	0	0	0	0	0	1
U33 DIS 256X16 VRAM	0	0	0	0	1	1
	0	0	0	1	1	1
U33 HM77	0	0	1	X	X	X
U33 HM70	0	0	0	X	X	X



Stuff	SG	UMA
Ra	Ra	Rb
Rb	Rb	Ra

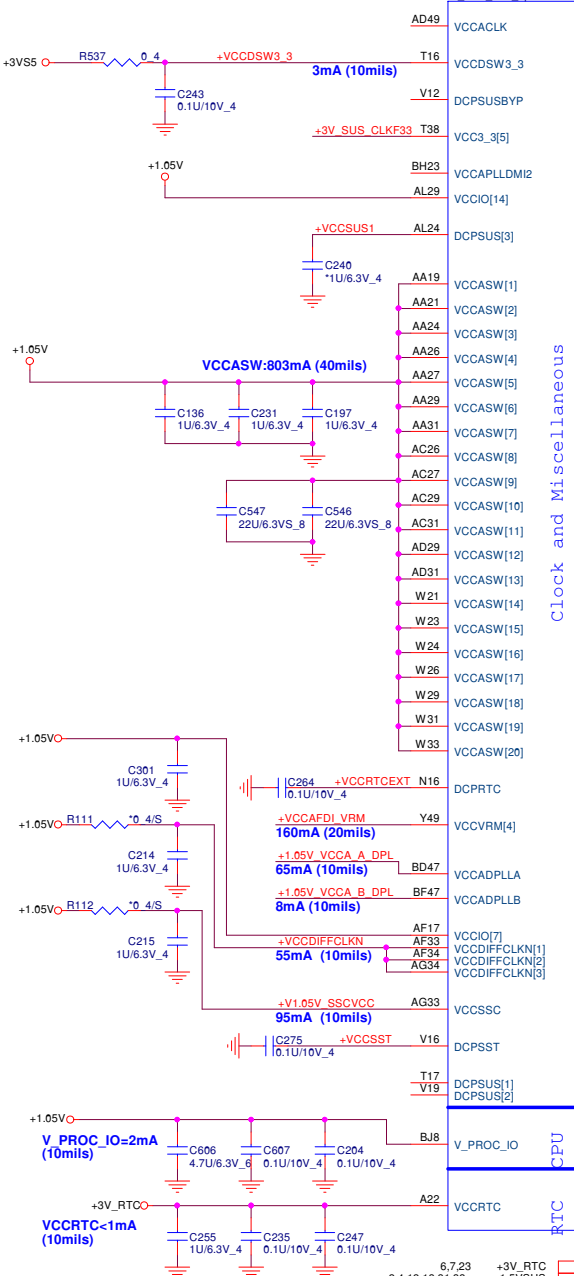


PROJECT : VOLKS
Quanta Computer Inc.

Size Custom Document Number PCH 4/6 (GPIO) Rev 1A
Date: Wednesday, May 23, 2012 Sheet 9 of 37

Cougar Point/Panther Point (POWER)

U18J CPT_PPT_Rev_0p7 POWER



USB

PCI/GPIO/LPC

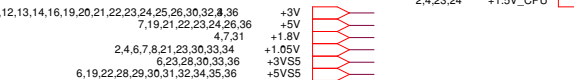
SATA

MISC

RIC CPU

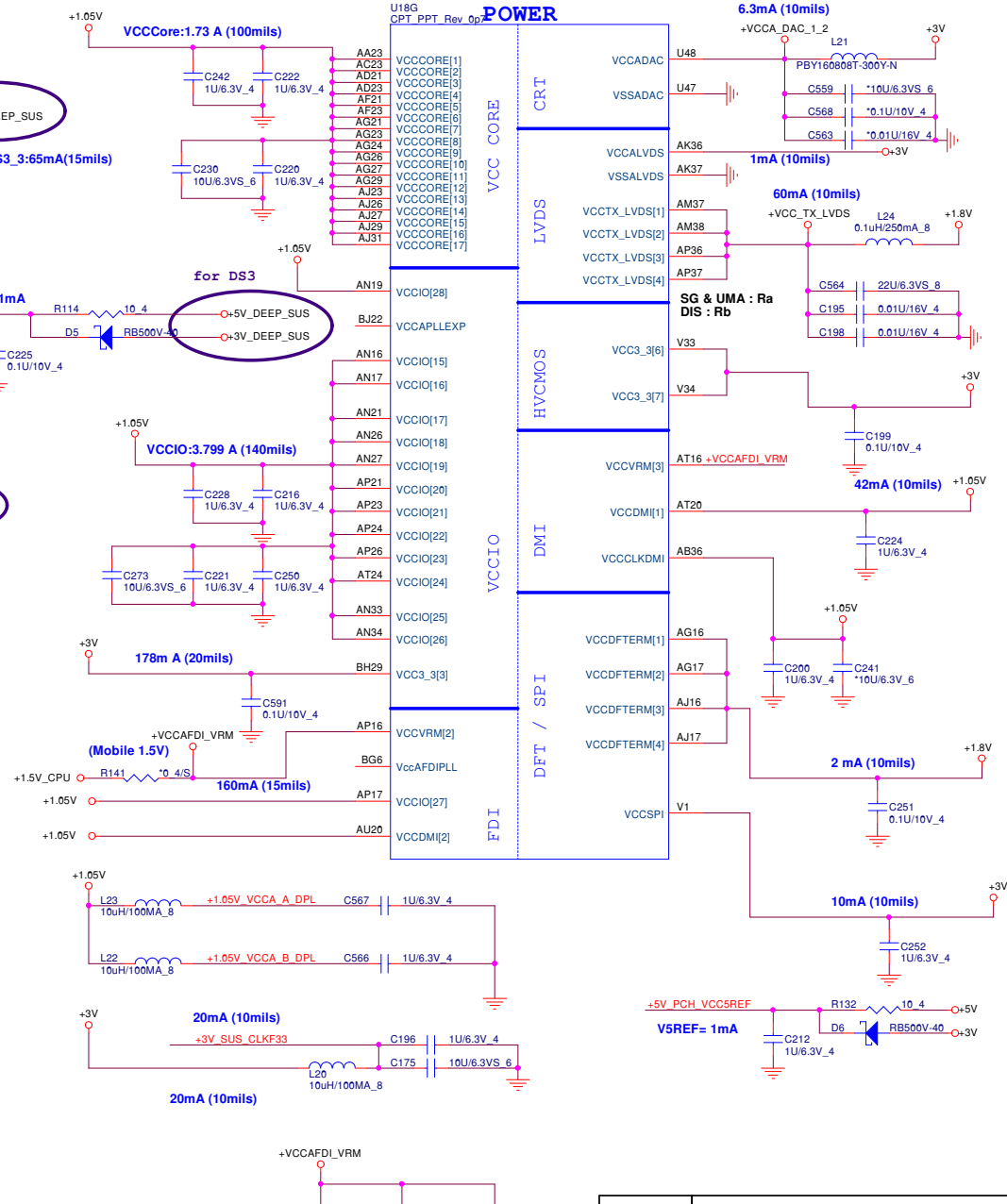
HDA

Clock and Miscellaneous



Cougar Point/Panther Point (POWER)

U18G CPT_PPT_Rev_0p7 POWER



VCC CORE

LVDS

HVCMOS

DMI

SPI

FDI

CRT

LVDS

FDI



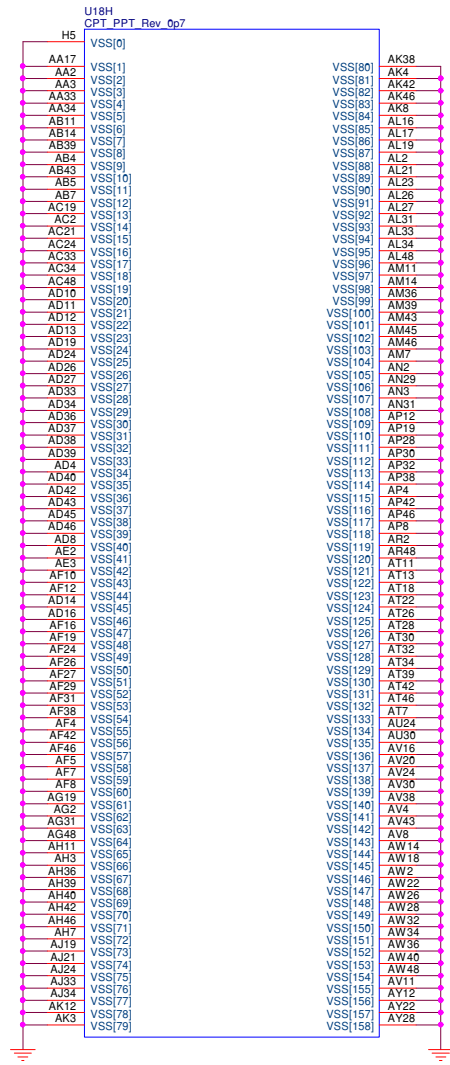
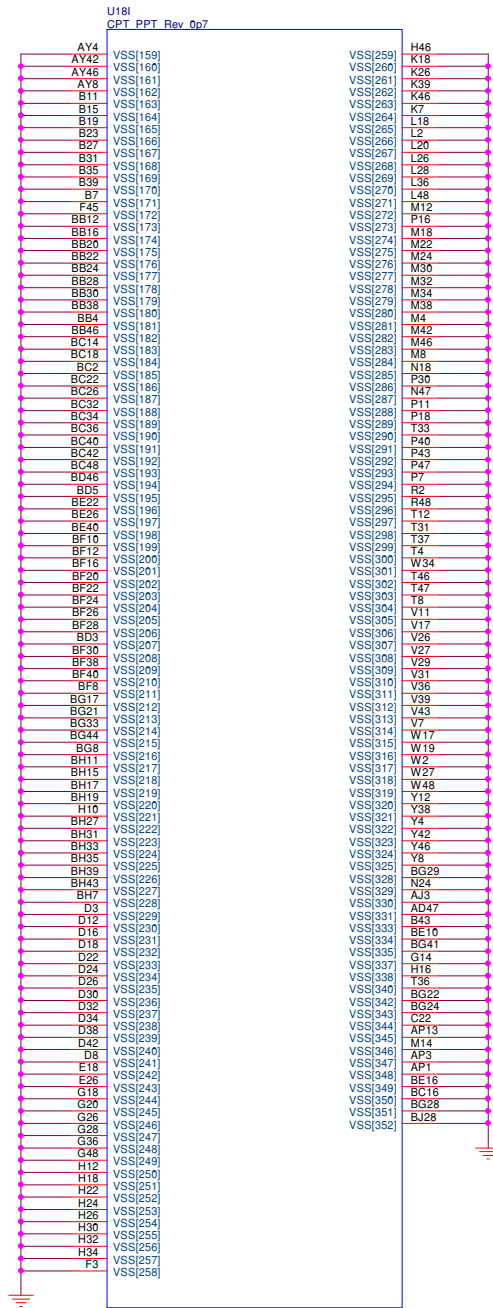
PROJECT : VOLKS
Quanta Computer Inc.

Size	Document Number	Rev
Custom	PCH 5/6 (Power)	1A
Date: Wednesday, May 23, 2012		Sheet 10 of 37

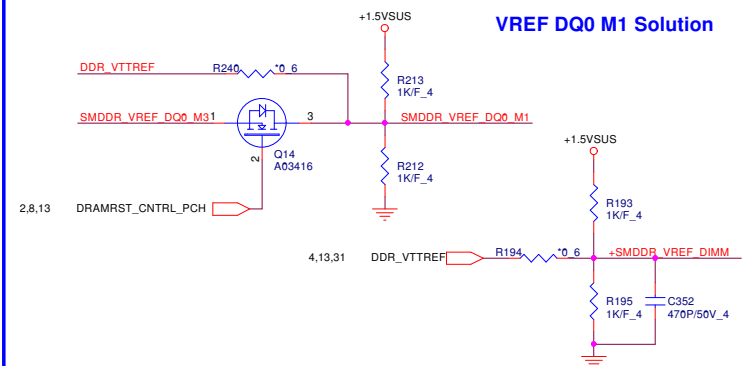
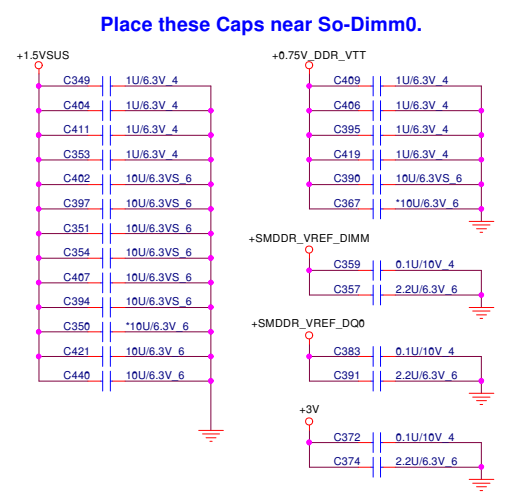
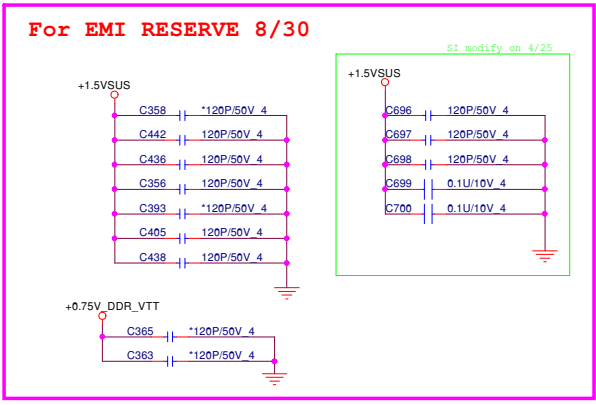
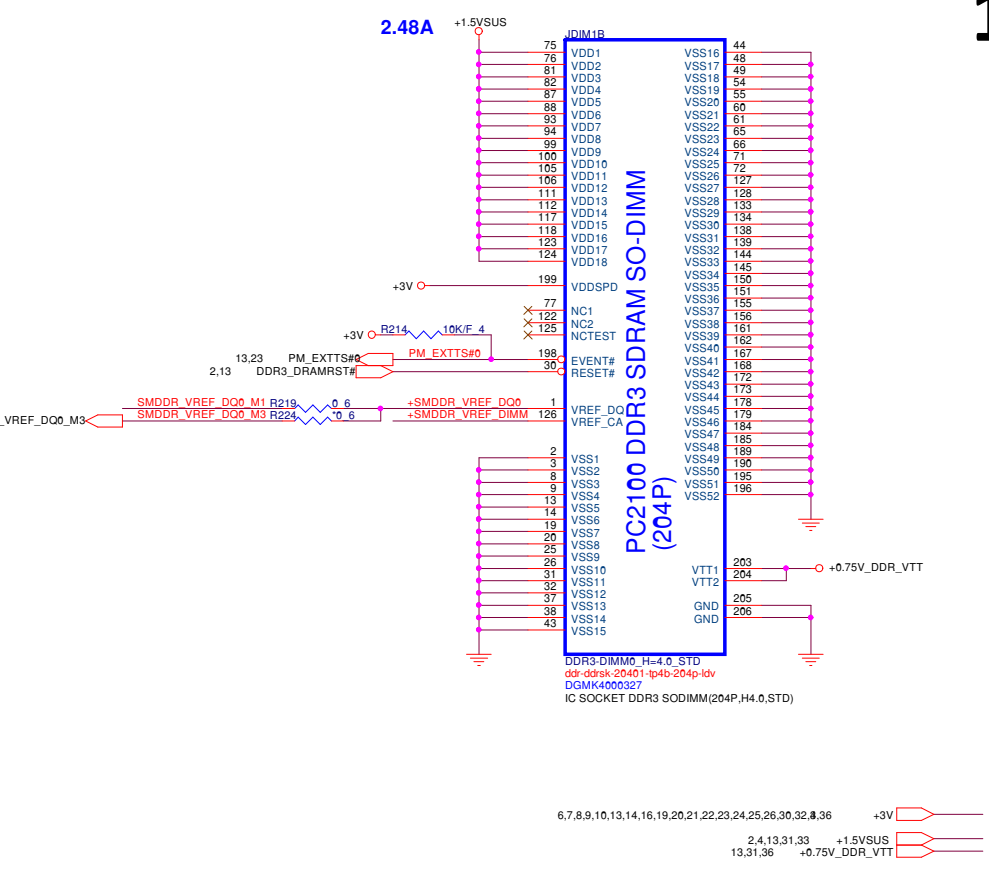
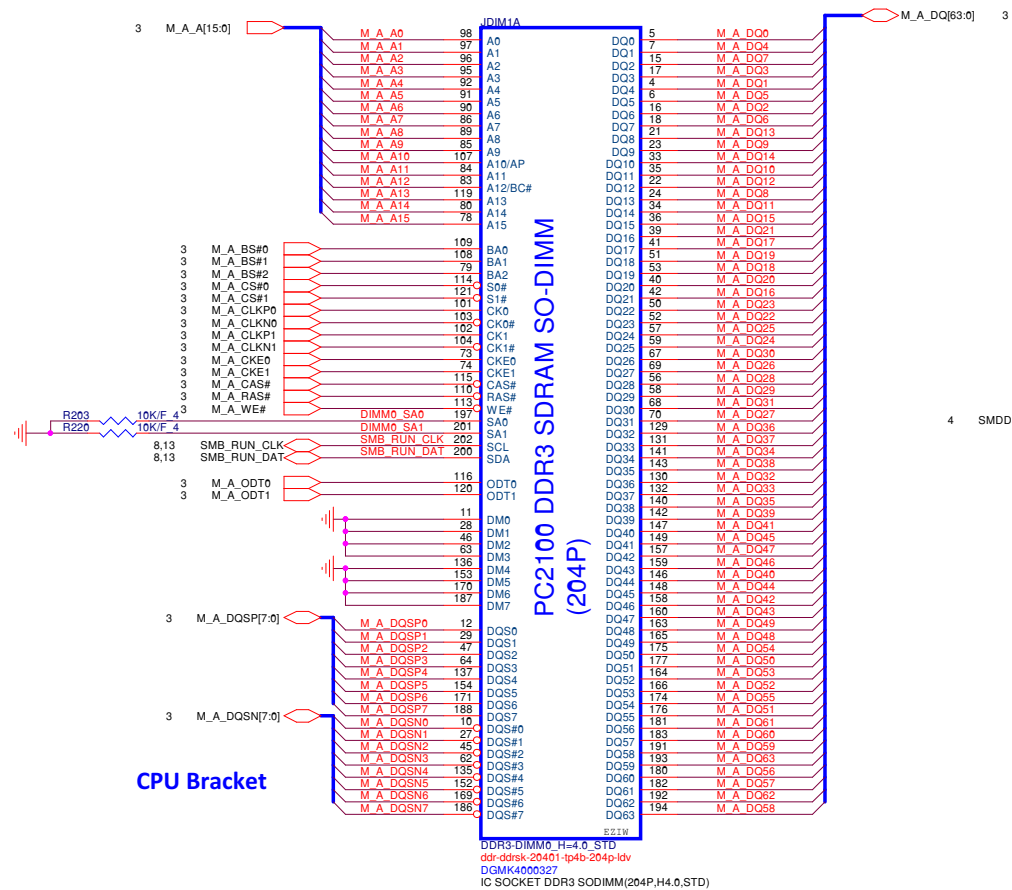
NB5

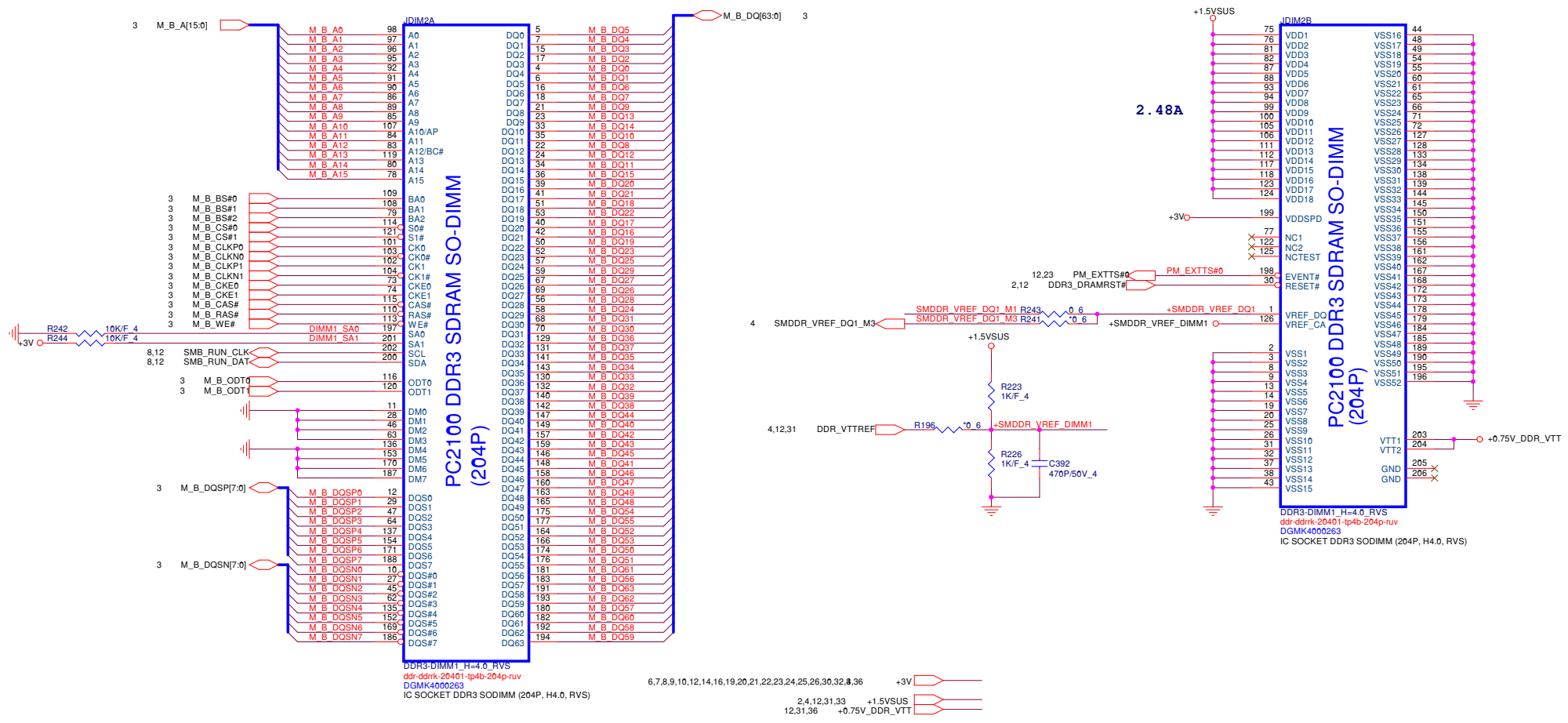
Cougar Point/Panther Point (GND)

Cougar Point/Panther Point (GND)

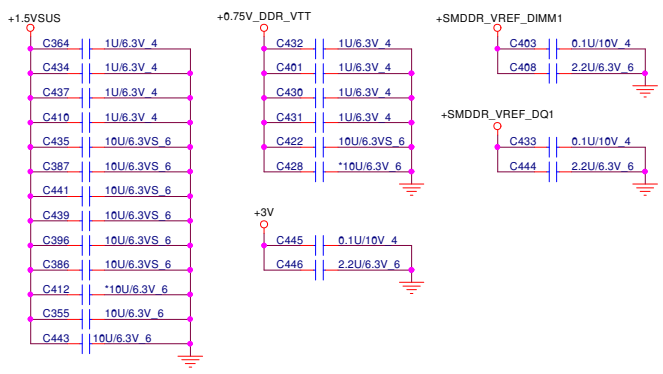


	PROJECT : VOLKS	
	Quanta Computer Inc.	
Size Custom	Document Number PCH 6/6 (Ground)	Rev 1A
Date: Wednesday, May 23, 2012		Sheet 11 of 37

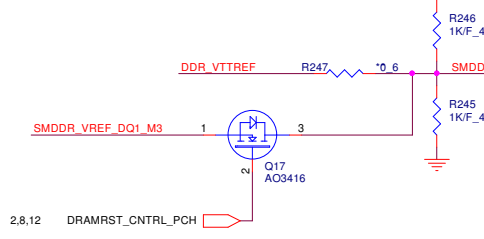




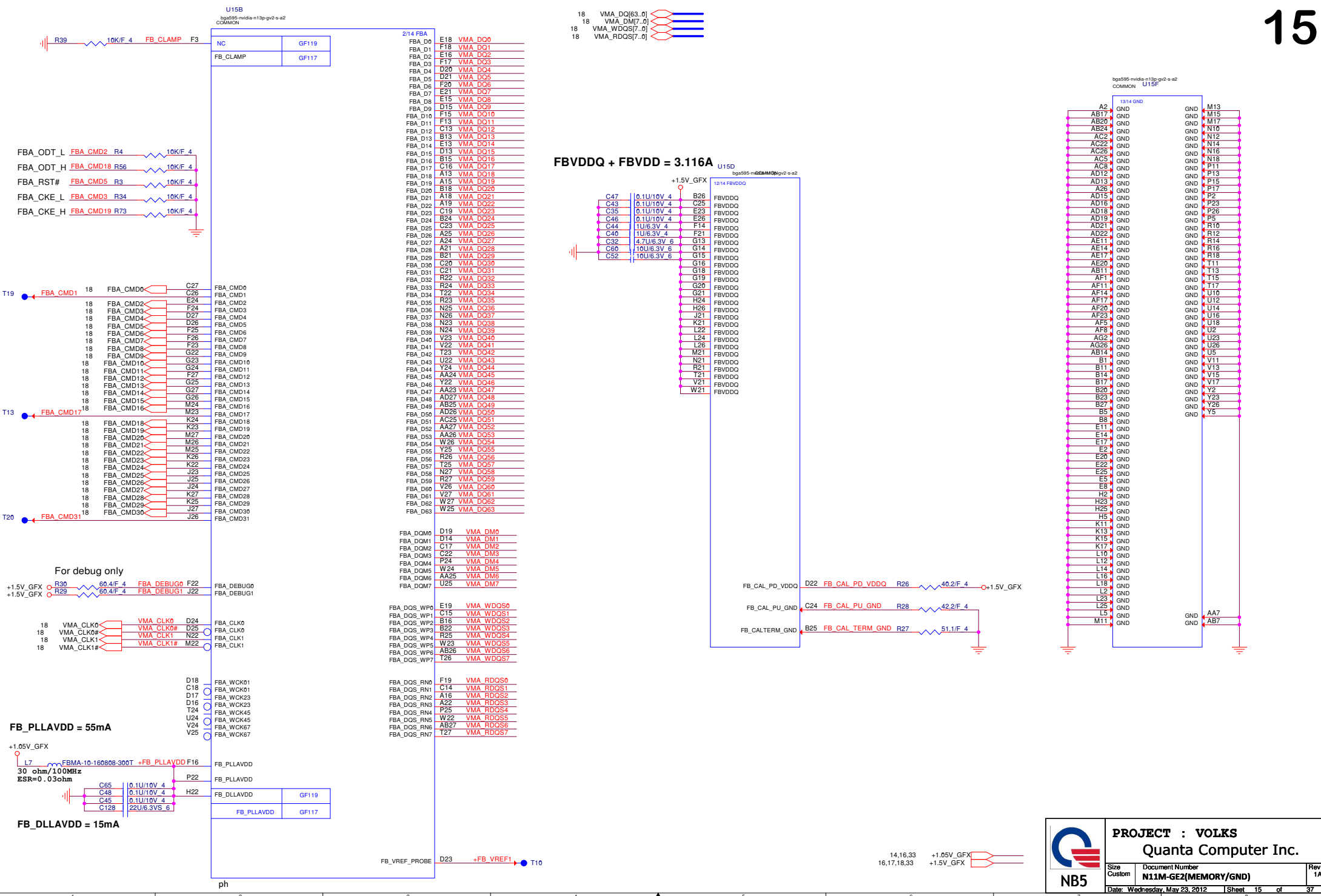
Place these Caps near So-Dimm1.



VREF DQ1 M1 Solution

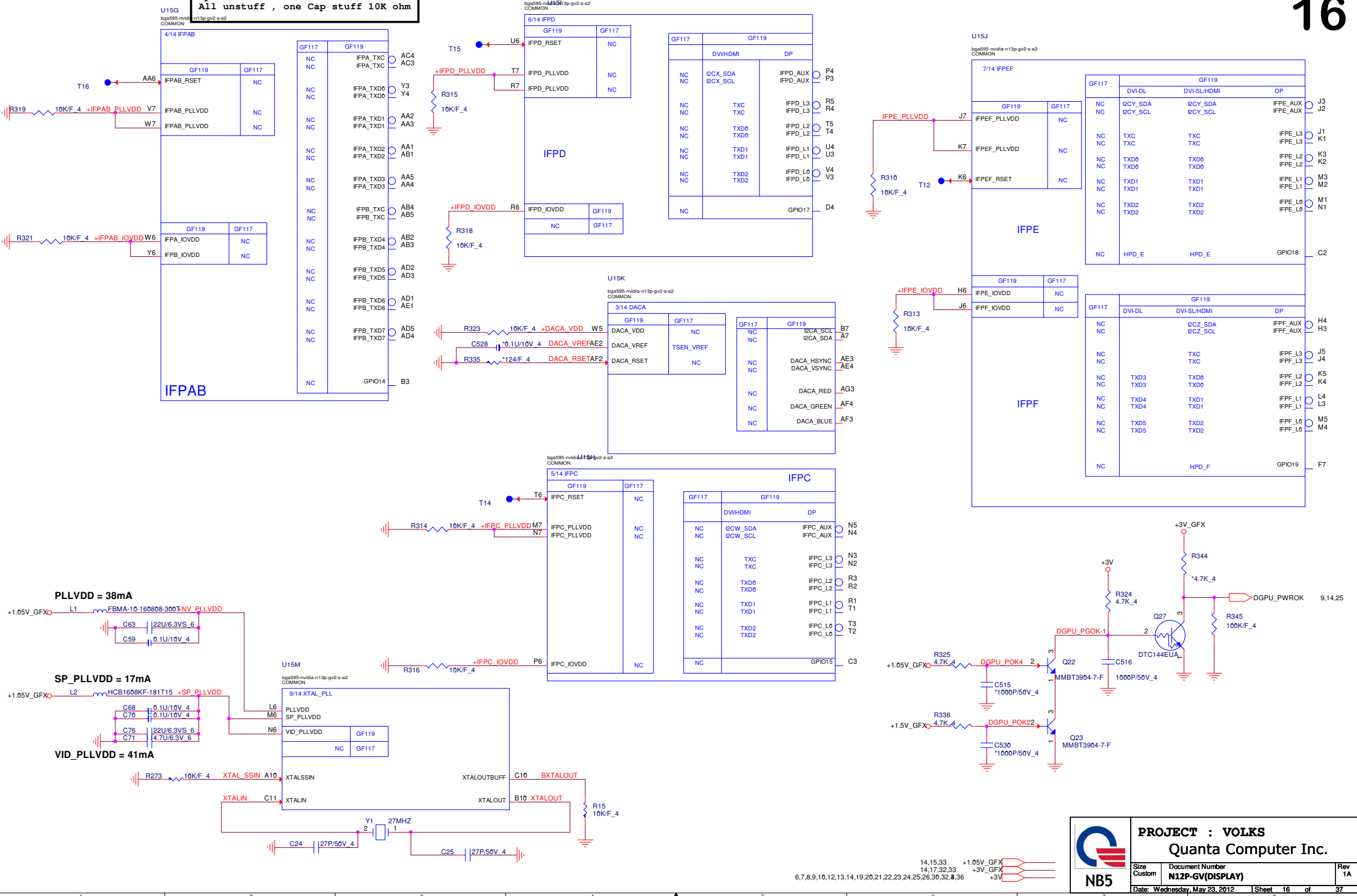


	PROJECT : VOLKS		Rev 1A
	Document Number System Memory 2/2 (9.2H)		
	Date: Wednesday, May 23, 2012		
Size Custom	Sheet 13of	Date: Wednesday, May 23, 2012	Sheet 37



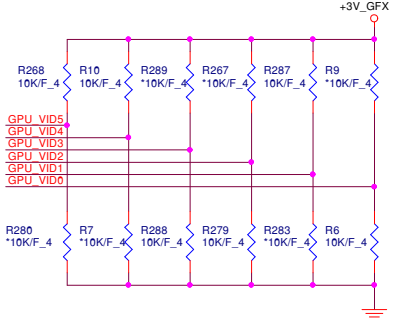
		PROJECT : VOLKS	
		Quanta Computer Inc.	
Size	Document Number	Rev	
Custom	N11M-GEZ(MEMORY/GND)	1A	
Date:	Wednesday, May 23, 2012	Sheet	15 of 37

Optimus:
All unstuff , one Cap stuff 10K ohm

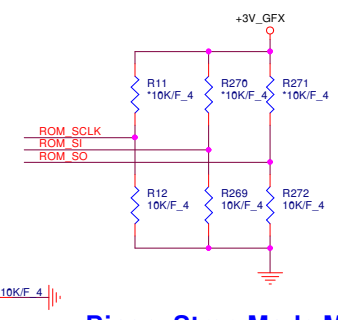
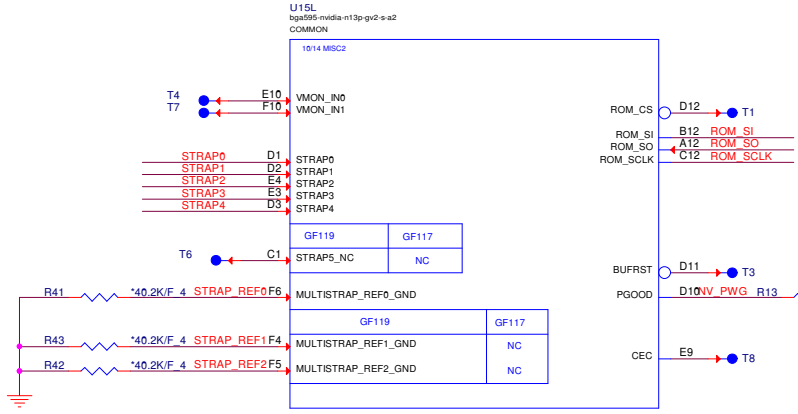


		PROJECT : VOLKS		Rev 1A
		Quanta Computer Inc.		
Size Custom	Document Number	N12P-GV(DISPLAY)		Date: Wednesday, May 23, 2012
Sheet 16 of 37				

14,15,33 +1.05V_GFX
 14,17,32,33 +3V_GFX
 6,7,8,9,10,12,13,14,19,20,21,22,23,24,25,26,30,32,33,36 +3V



**N13P-GV2 NVDD HW BOOT Voltage = 0.875V
VID = 0110010**

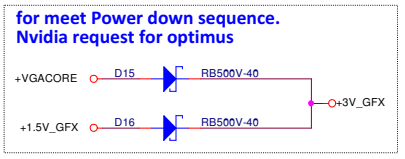


Binary Strap Mode Mapping

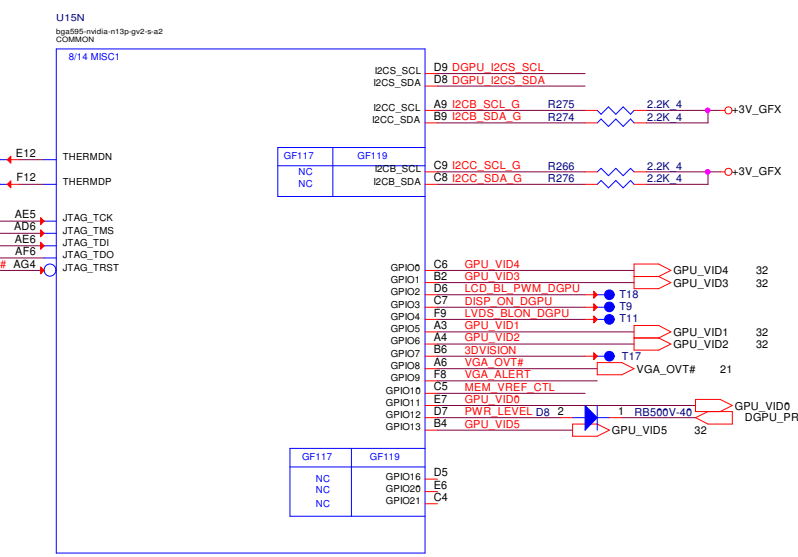
Strap Pin name	Strap Mapping	Resistance	Polarity
ROM_SCLK	SMB_ALT_ADDR	10Kohm	Pull-down to GND
ROM_SI	SUB_VENDOR	10Kohm	Pull-UP to 3V3 if BIOS ROM Exists Pull-down to GND if no VBIO ROM
ROM_SO	VGA_DEVICE	10Kohm	Pull-down to GND (no dispaly)
STRAP0	RAMCFG[0]	10Kohm	USER defined
STRAP1	RAMCFG[1]	10Kohm	USER defined
STRAP2	RAMCFG[2]	10Kohm	USER defined
STRAP3	RAMCFG[3]	10Kohm	USER defined
STRAP4	PCIE_MAX_SPEED	10Kohm	Pull-down to GND

VRAM Configuration Table

RAMCFG [3:0]	DESCRIPTION	Vendor	Vendor P/N	QBCON P/N	HP P/N
0011 0101 1100 0101	(MP) DDR3 256Mx16x4, 64bit, 2Gb,900MHz DDR3 256Mx16x4, 64bit, 2Gb,900MHz DDR3 128Mx16x4, 64bit, 1Gb,900MHz DDR3 128Mx16x4, 64bit, 1Gb,900MHz	Reserved Hynix Micron Hynix Samsung	 H5T04G63MFR-11C MT41K256M16HA-107G:E H5TQ2G63DFR-11C K4W2G1646C-HC11	 AKD5PCWTW00 AKD5PGSTL01 AKD5MGWTW12 AKD5MGWT513	 AKD5PCWTW01 AKD5PGSTL02 AKD5MGWT513 AKD5MGWT508
0001 0100 1011	(OCC) DDR3 256Mx16x4, 64bit, 2Gb,900MHz DDR3 256Mx16x4, 64bit, 2Gb,900MHz DDR3 128Mx16x4, 64bit, 1Gb,900MHz	Samsung Hynix Samsung	 K4W4G1646B-HC11 H5T04G63AFR-11C K4W2G1646E-BC11	 AKD5MGWT518 applying AKD5MGWT521	 AKD5MGWT517 applying AKD5MGWT522

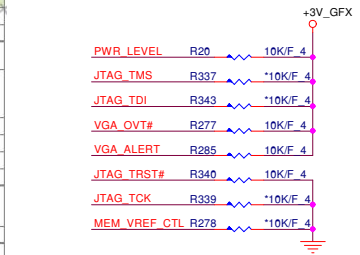


**for meet Power down sequence.
Nvidia request for optimus**



GB2-64 and GB4-128 GPIO Description

GPIO pin Name	Normal Function	I/O	Functional Description	Recommended Default Pull-up or Pull-down
GPIO0	GPU_VID4	O	GPU Core VDD VID4	Strap to boot NVVDD
GPIO1	GPU_VID3	O	GPU Core VDD VID3	Strap to boot NVVDD
GPIO2	LCD_BL_PWM	O	Panel Backlight PWM Brightness Control	100 K pull-down
GPIO3	LCD_VCC or PSI	O	Panel Power Enable or Phase Shedding	LCD_VCC: 100k pull-down PSI: 10k pull-up or pull-down; stuff as needed to disable phase shedding by default
GPIO4	LCD_BLEN	O	Panel Backlight Enable	100 K pull-down
GPIO5	GPU_VID1	O	GPU Core VDD VID1	Strap to boot NVVDD
GPIO6	GPU_VID2	O	GPU Core VDD VID2	Strap to boot NVVDD
GPIO7	3Dvision	O	3D Vision Left/Right signal	100 K pull-down
GPIO8	OVERT	I/O	Active Low Thermal Catastrophic Over Temperature	100 K pull-up
GPIO9	ALERT	I/O	Active Low Thermal Alert	100 K pull-up
GPIO10	MEM_VREF_CTL	O	Memory VREF Control	100 K pull-down
GPIO11	GPU_VID0	O	GPU Core VDD VID0	Strap to boot NVVDD
GPIO12	PWR_LEVEL	I	AC power detect or power supply overdraw input	100 K pull-up
GPIO13	GPU_VID5	O	GPU Core VDD VID5	Strap to boot NVVDD
GPIO14	HPD_AB	I	Hot Plug Detect for IFPAB	See Figure 76
GPIO15	HPD_C	I	Hot Plug Detect for IFPC	See Figure 76
GPIO16	PSI or MEM_VDD_CTL	O	Phase Shedding or Memory VDD VID	PSI: 10k pull-up or pull-down; stuff as needed to disable phase shedding by default MEM_VDD_CTL: Strap to boot FBVDD/Q
GPIO17	HPD_D	I	Hot Plug Detect for IFPD	See Figure 76
GPIO18	HPD_E	I	Hot Plug Detect for IFPE	See Figure 76
GPIO19	HPD_F	I	Hot Plug Detect for IFPF	See Figure 76
GPIO20	Reserved			
GPIO21	Reserved			

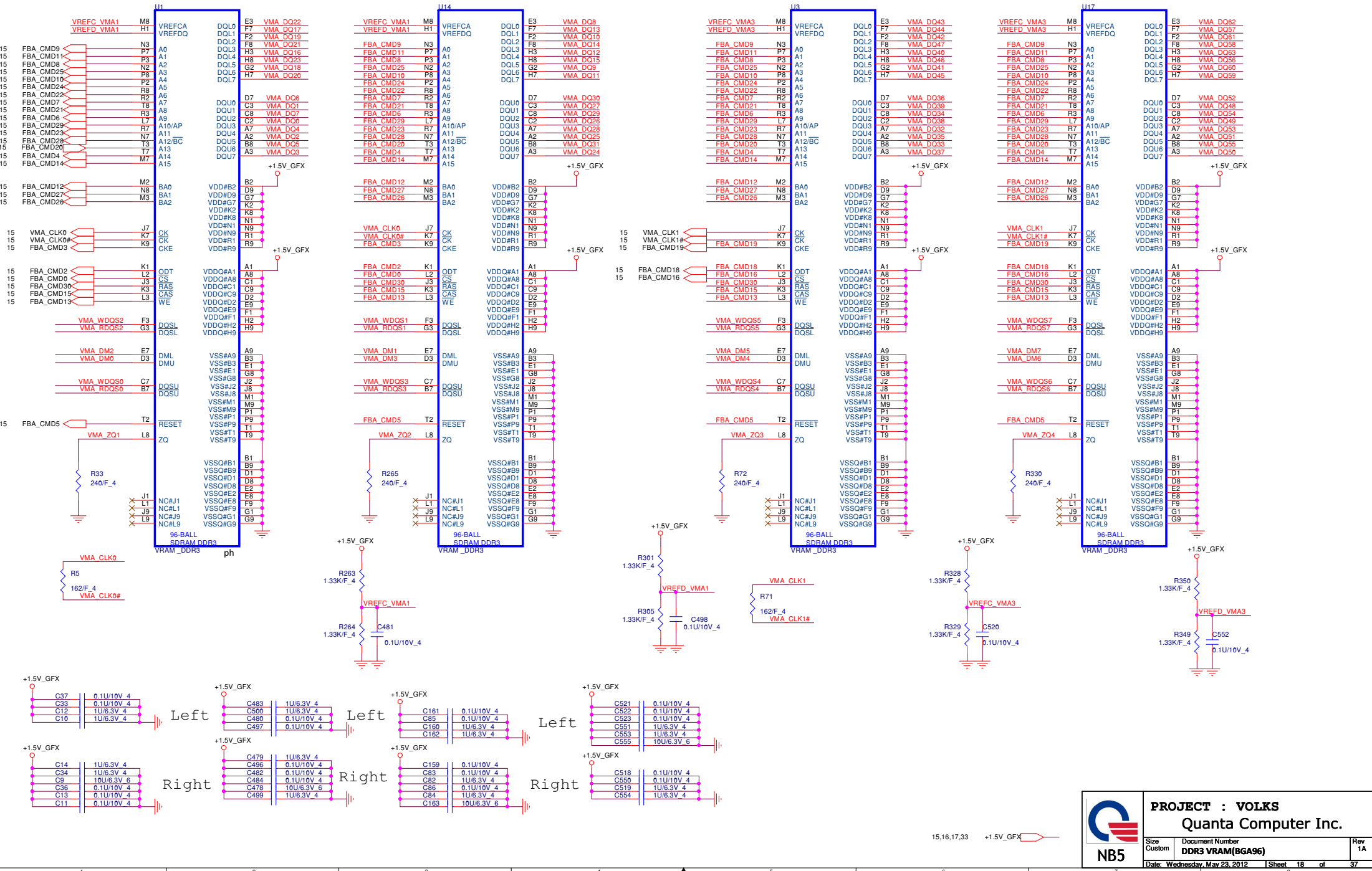
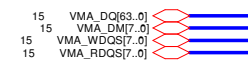


PROJECT : VOLKS
Quanta Computer Inc.

Size Custom Document Number **N12P-GV(GPIO/STRAPS)** Rev 1A

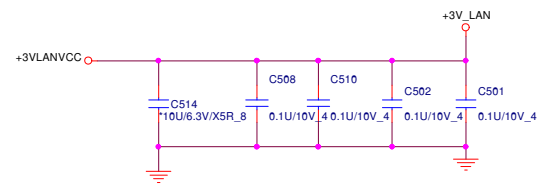
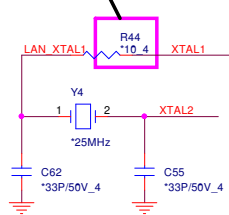
NB5 Date: Wednesday, May 23, 2012 Sheet 17 of 37

CHANNEL A: 256MB/512MB DDR3

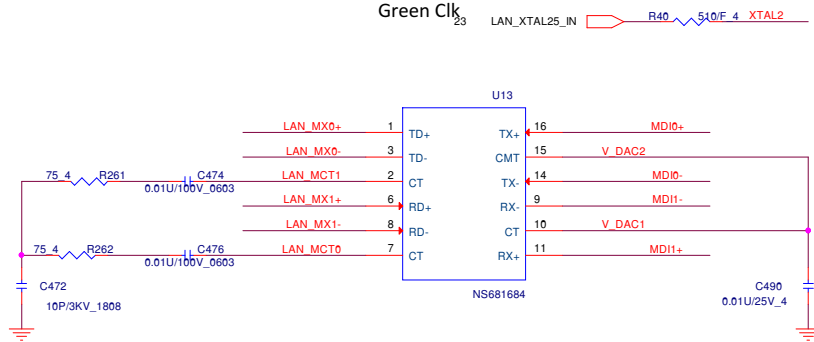


			PROJECT : VOLKS		
			Quanta Computer Inc.		
Size	Document Number				Rev
Custom	DDR3 VRAM(BGA96)				1A
Date:	Wednesday, May 23, 2012		Sheet	18	of 37

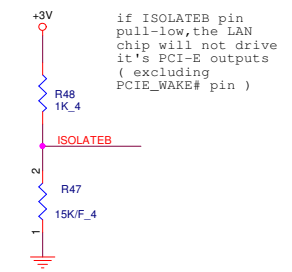
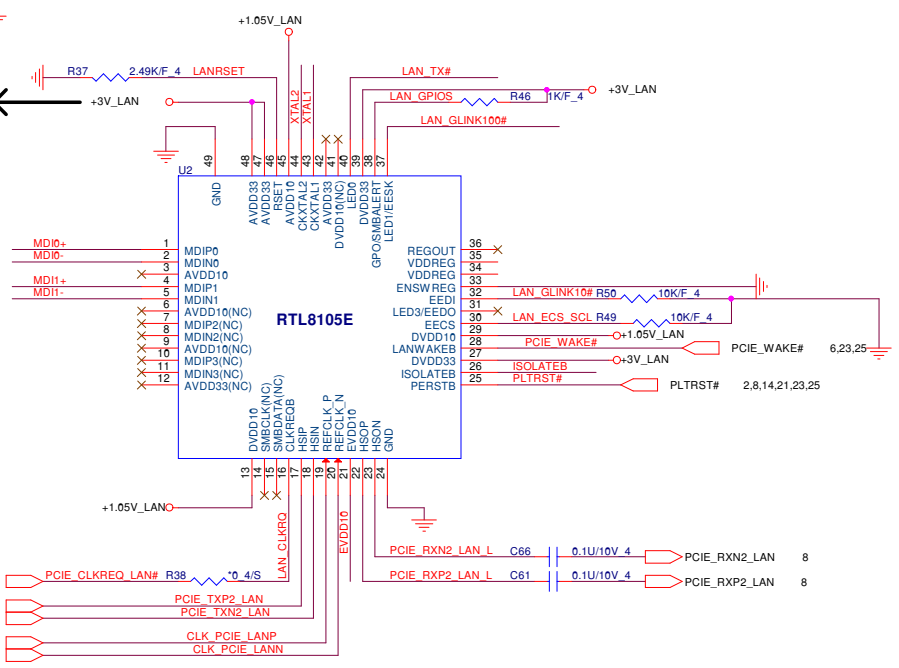
For EMI 0 ~ 22 ohm



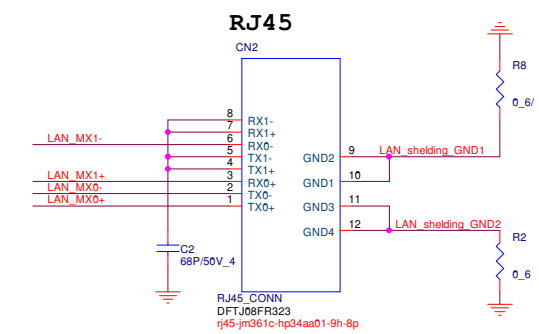
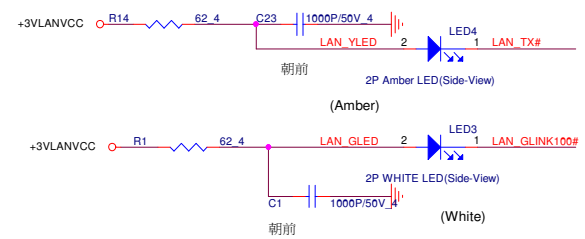
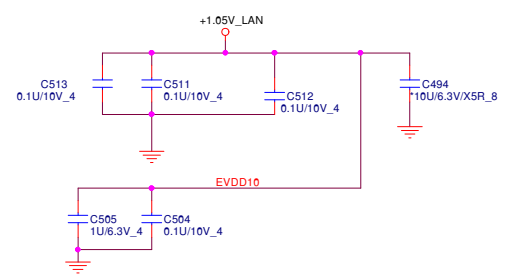
Green Clk



GND VIA x 9 Pcs



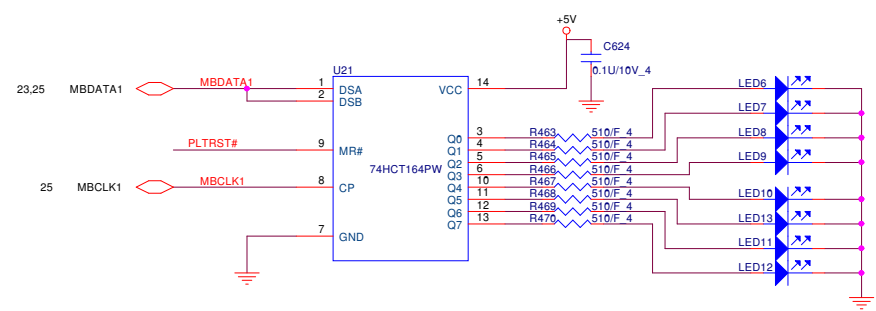
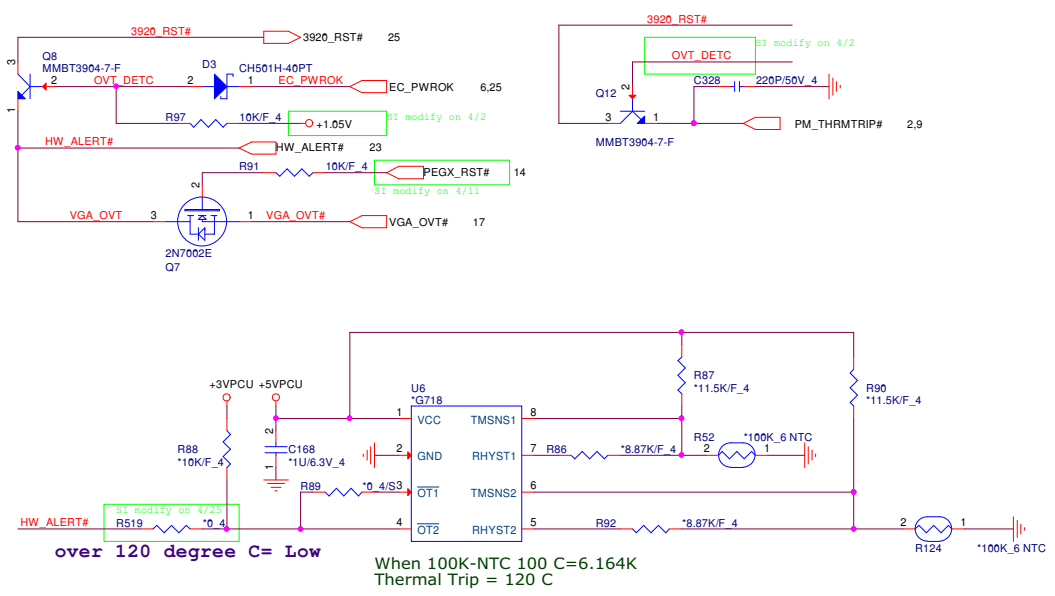
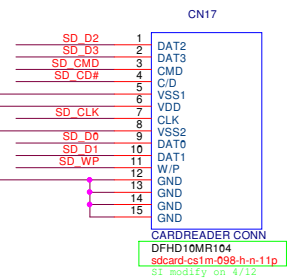
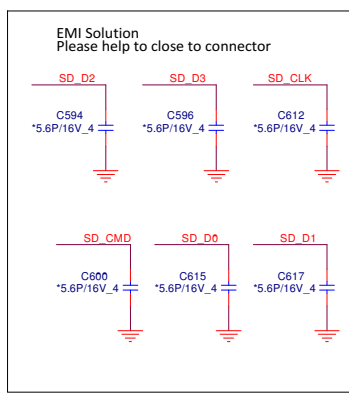
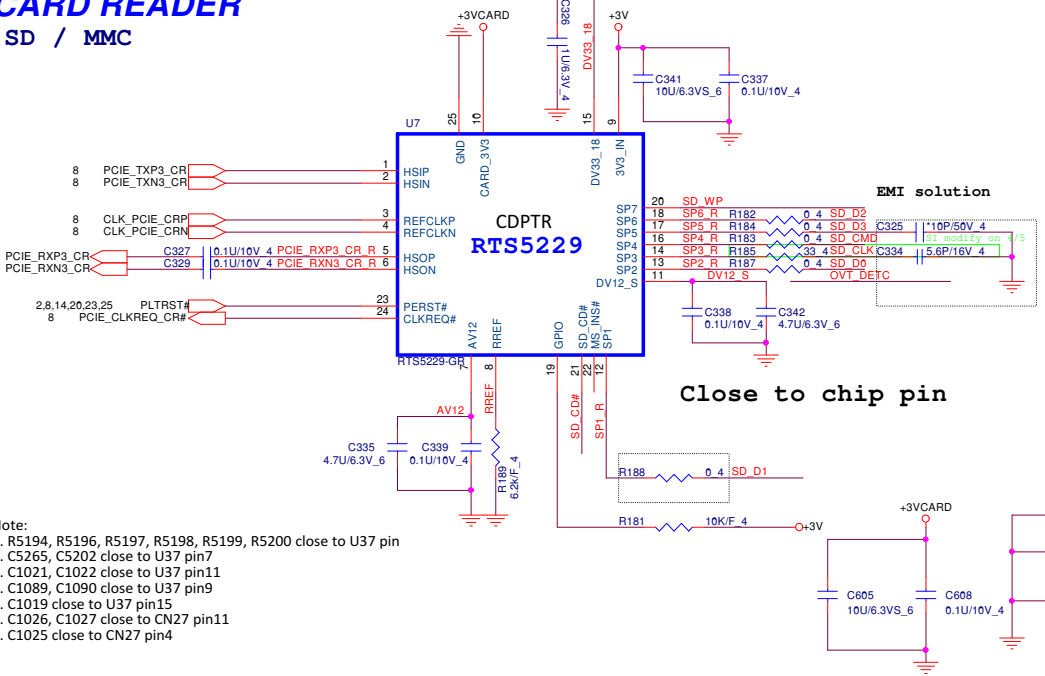
if ISOLATEB pin pull-low, the LAN chip will not drive it's PCI-E outputs (excluding PCIE_WAKE# pin)



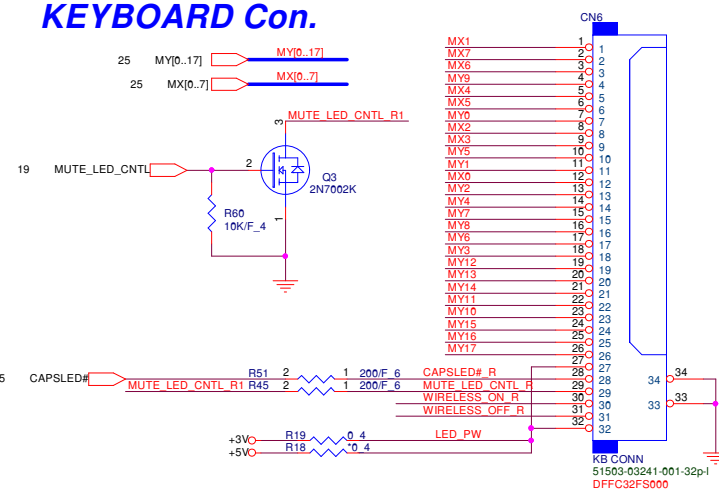
	PROJECT : VOLKS Quanta Computer Inc.	
	Size Custom Document Number LAN RTL8105/RJ45	Rev 1A
Date: Wednesday, May 23, 2012		Sheet 20 of 37

CARD READER

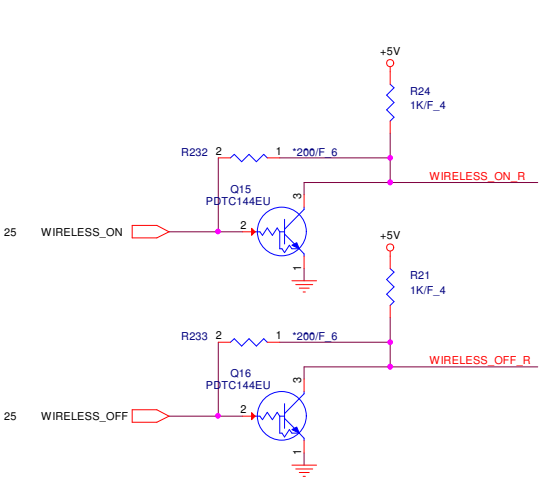
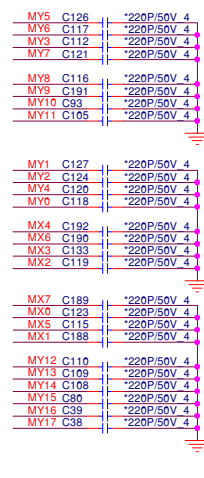
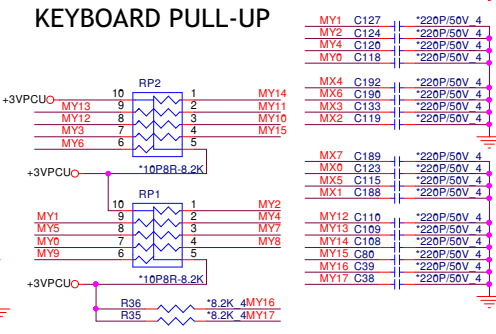
SD / MMC



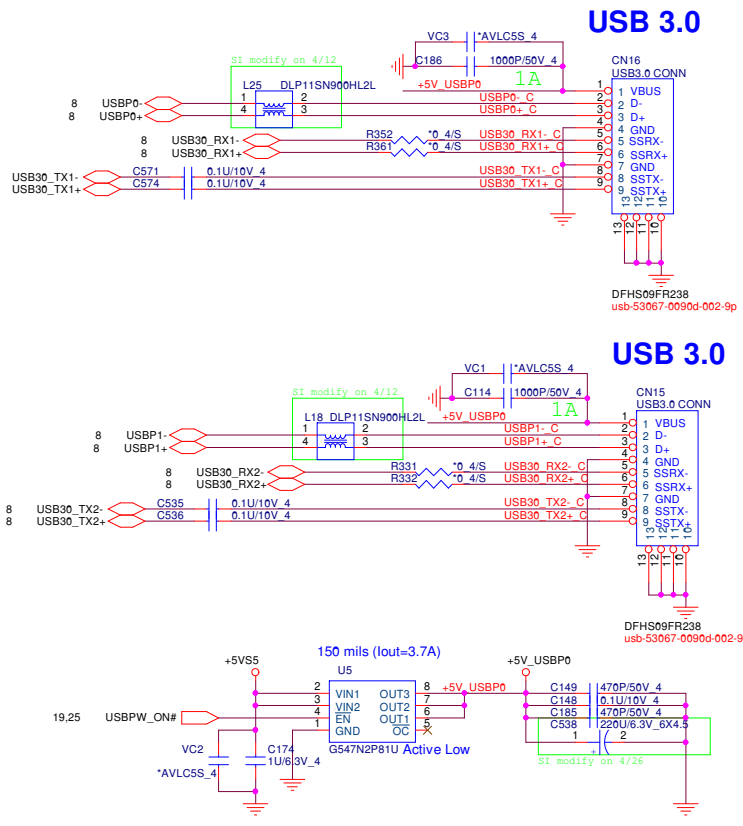
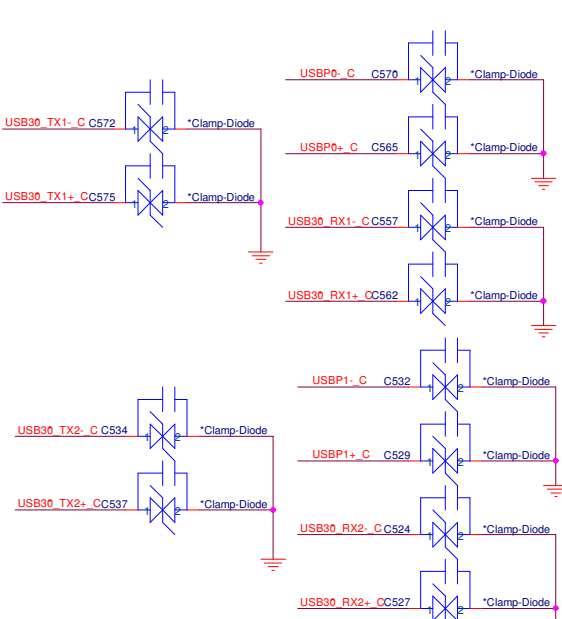
KEYBOARD Con.



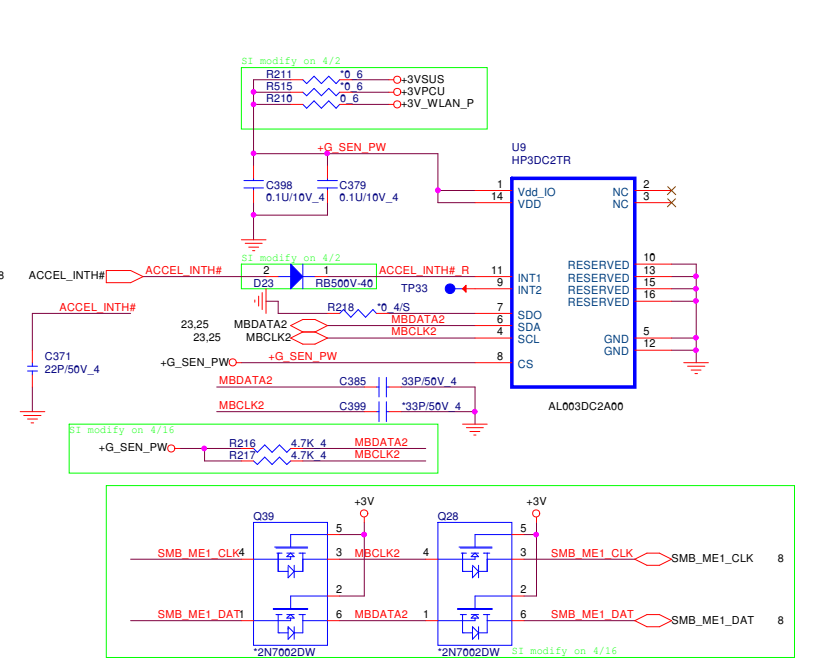
KEYBOARD PULL-UP



USB 2.0/3.0 Combo

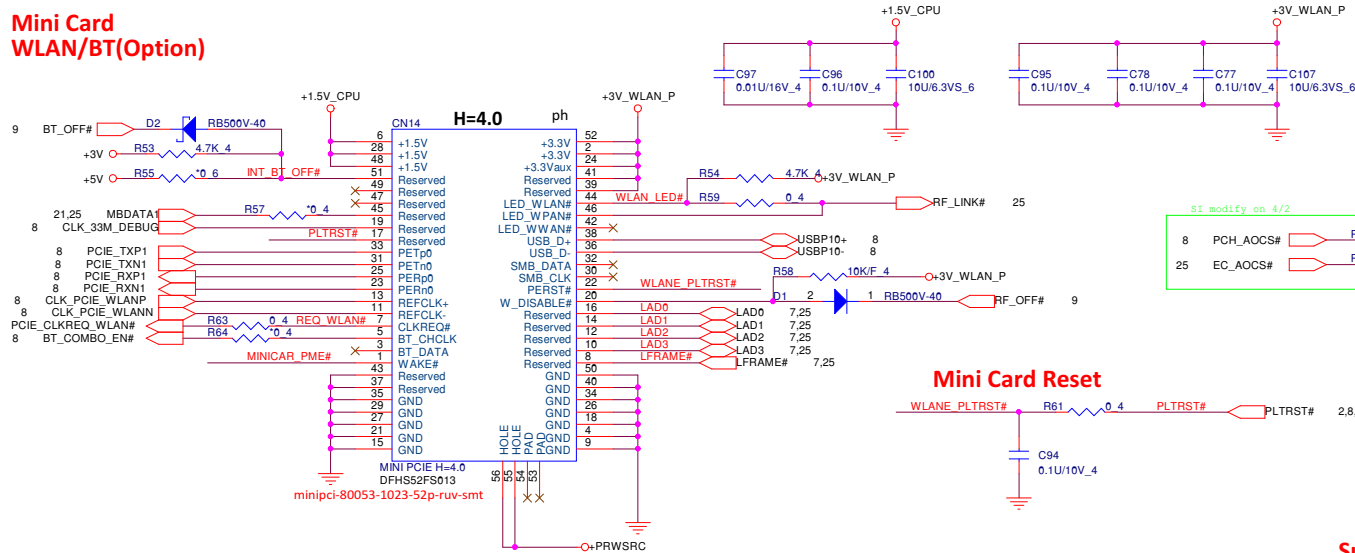


Accelerometer Sensor

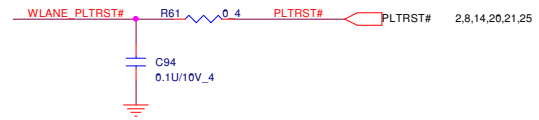


	PROJECT : VOLKS	
	Quanta Computer Inc.	
	Size Custom	Document Number USB 3.0/KB/Green CLK
Date: Wednesday, May 23, 2012	Sheet 22of	Rev 1A

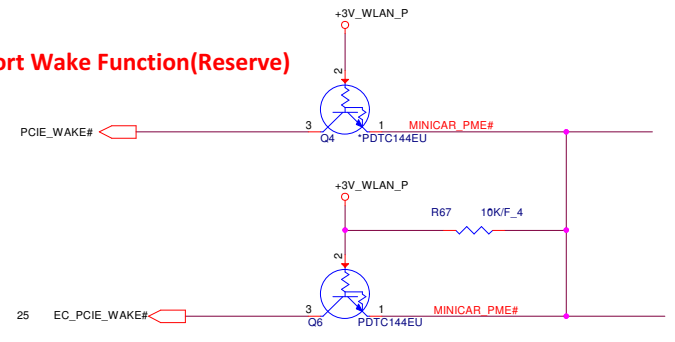
Mini Card WLAN/BT(Optional)



Mini Card Reset

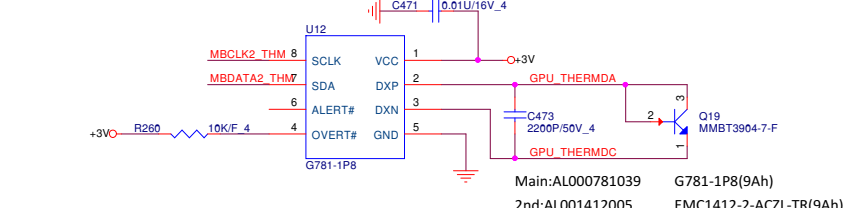


Support Wake Function(Reserve)

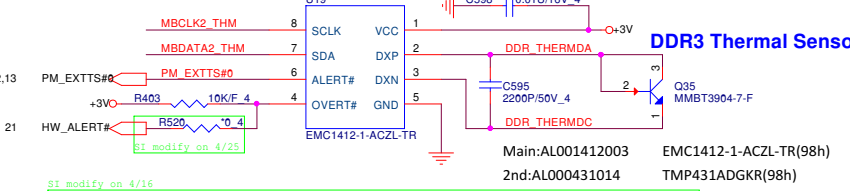


Local Thermal Sensor

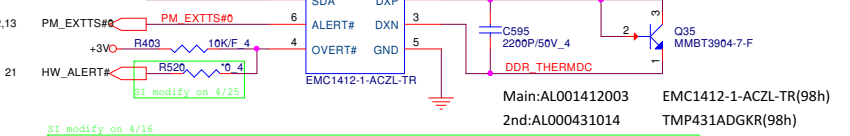
GPU Thermal Sensor



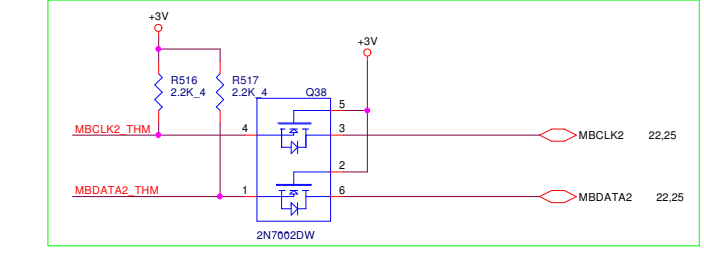
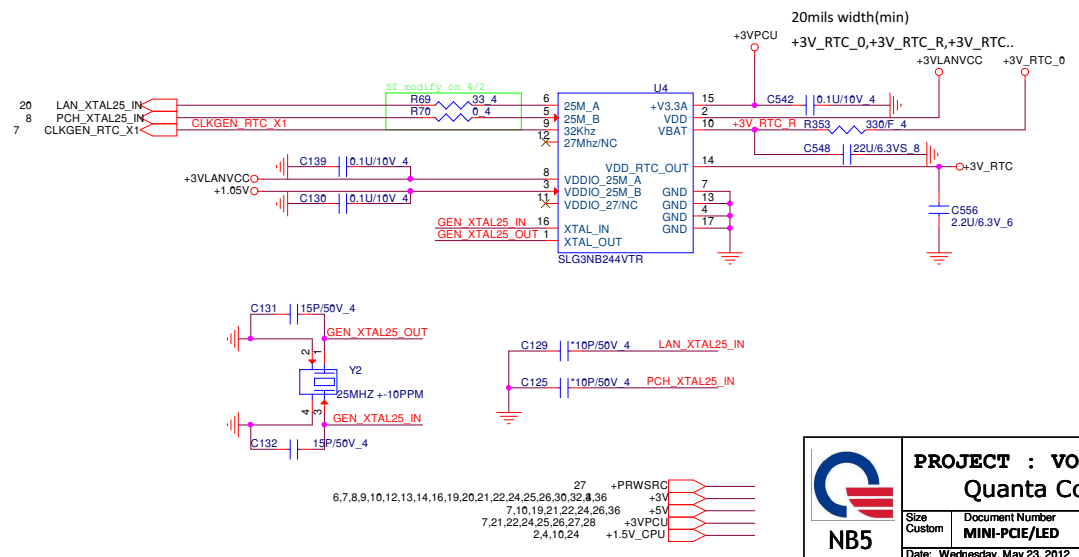
CPU Thermal Sensor



DDR3 Thermal Sensor



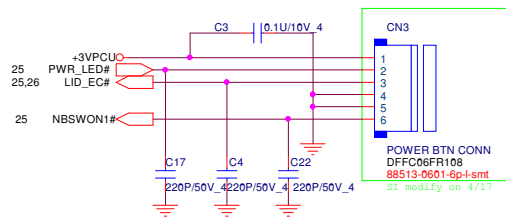
Green CLK Circuitry



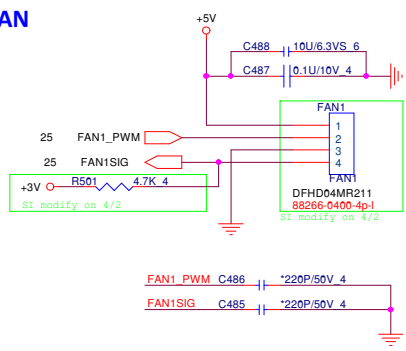
		PROJECT : VOLKS	
		Quanta Computer Inc.	
Size	Document Number	MINI-PCIE/LED Date: Wednesday, May 23, 2012	Sheet 23of 37
Custom	MINI-PCIE/LED		

Power Button Connector

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



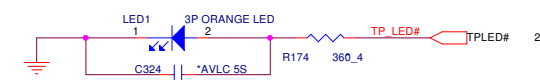
FAN



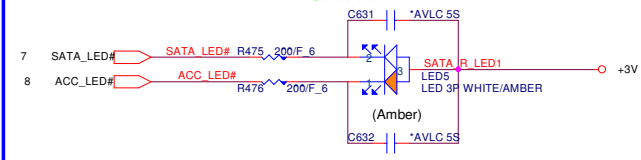
PWR LED



14" TP LED

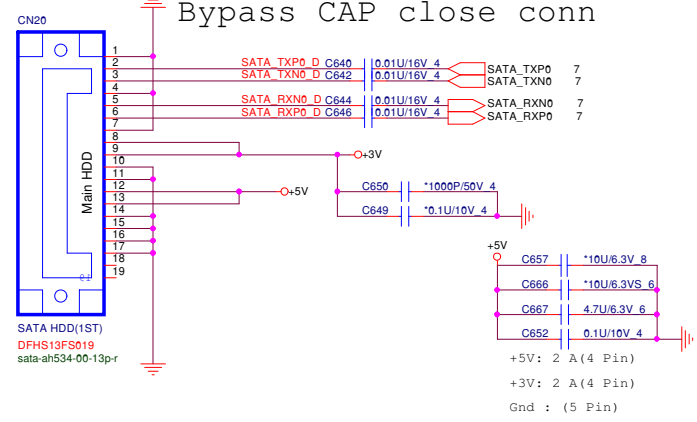


SATA LED

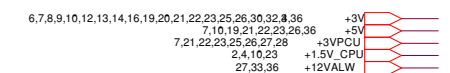
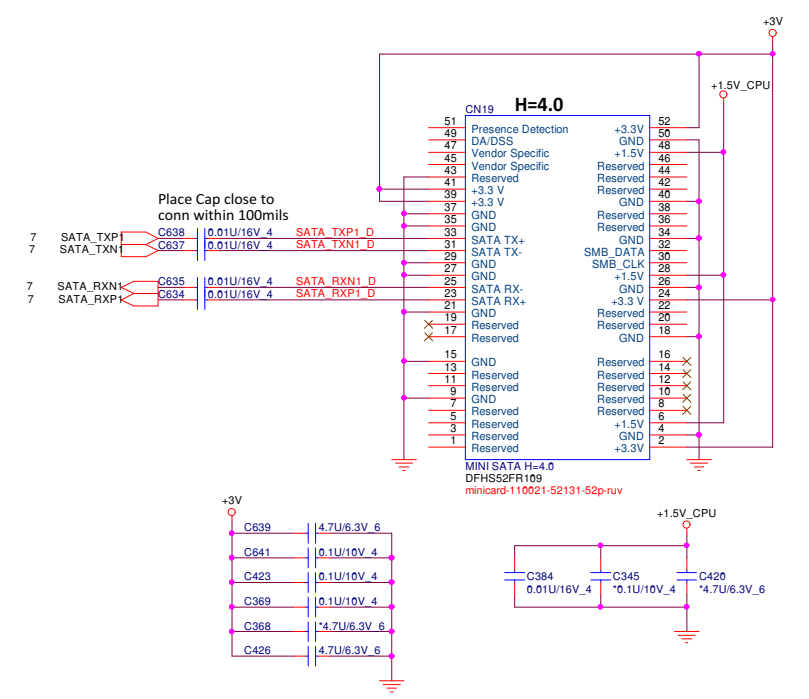


SATA HDD Connector(Cable type)

Bypass CAP close conn

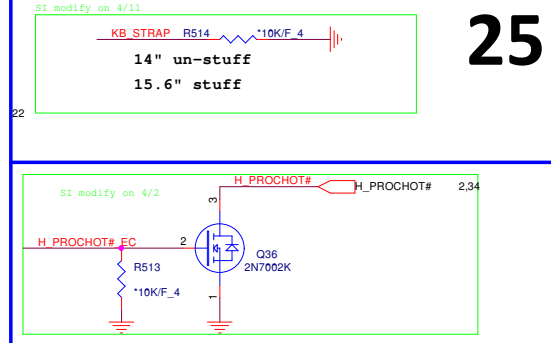
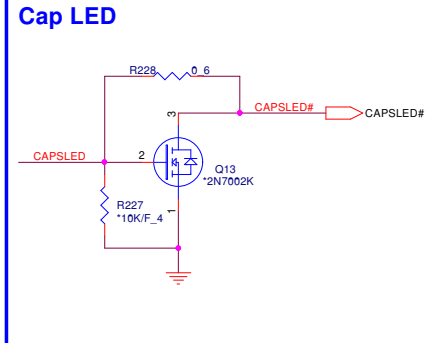
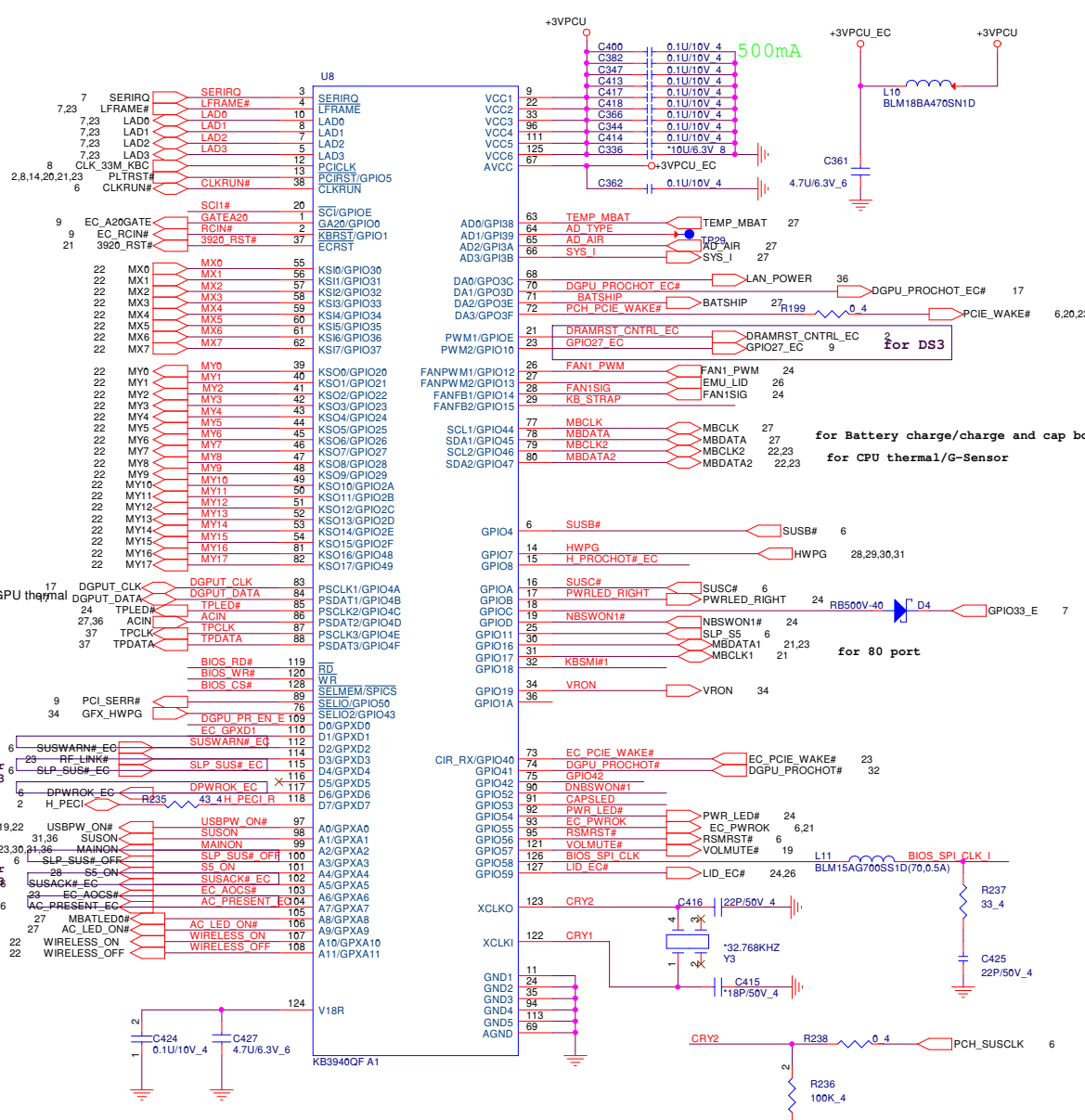


Mini PCI-E Card 2- Full size mSATA

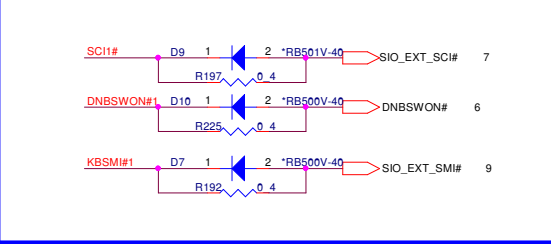
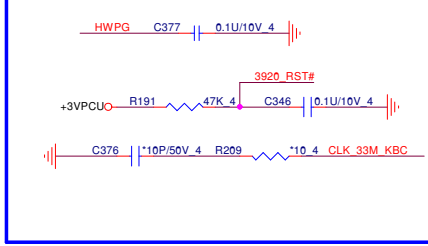
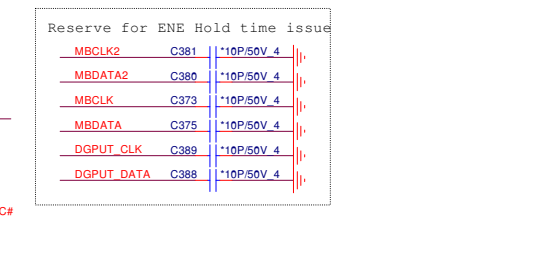
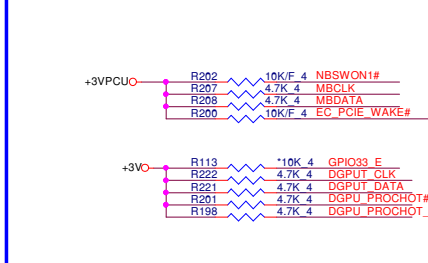
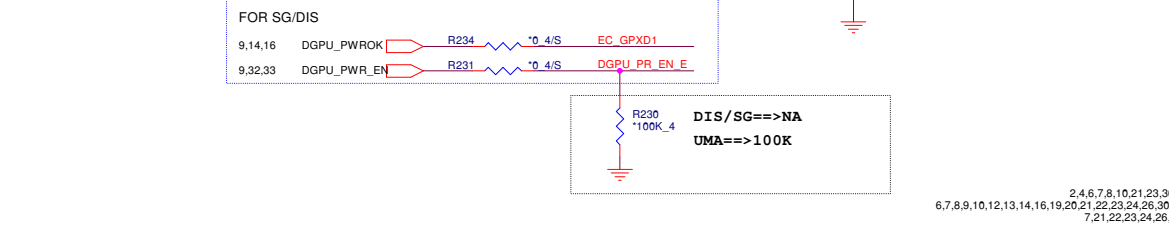
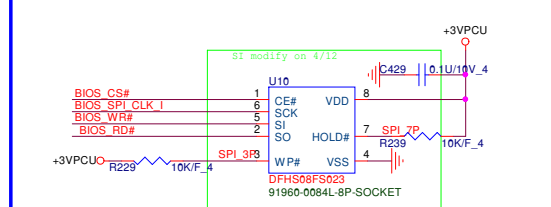
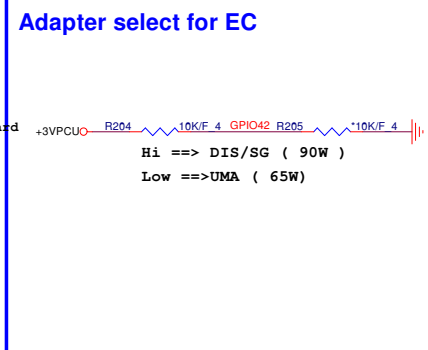


PROJECT : VOLKS
Quanta Computer Inc.

Size Custom Document Number **SATA HDD/ODD/MSATA CONN** Rev 1A
 NB5 Date: Wednesday, May 23, 2012 Sheet 24of 37



Vender	Size	P/N
EON	1MB	AKE3GZN0Q01 (EON EN25Q80A-100HIP)
MX	1MB	AKE3GFP0Z00 (MX25L8006EM2I-12G)
AMIC	1MB	AKE3GZP0801 (A25L080M-F)
Socket		DFHS08FS023



PROJECT : VOLKS
Quanta Computer Inc.

Size	Document Number	Rev
Custom	EC (KB3940 A1)/ROM	1A

Date: Wednesday, May 23, 2012 Sheet 25 of 37

4.6,7,8,10,21,23,30,33,34
6.7,8,9,10,12,13,14,16,19,20,21,22,23,24,26,30,32,36
7,21,22,23,24,26,27,28

+1.05V
+3V
+3VPCU

CN10	P/N
14"	DFAD08MR036
15"	DFAD08MR035

DC JACK 90W

Do Not add test pad on BATDIS_G signal

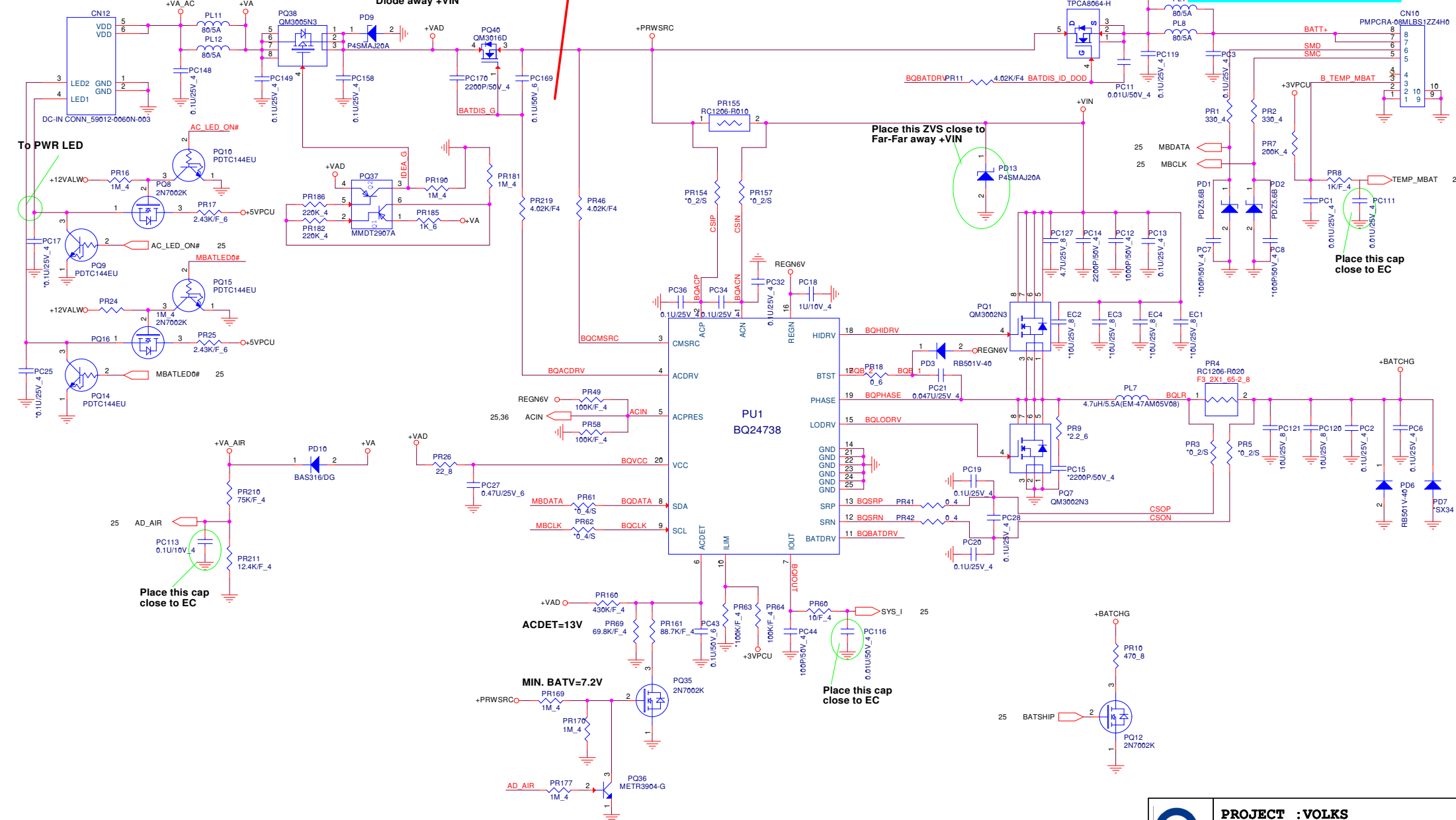
Place this ZVS close to Diode away +VIN

Place this ZVS close to Far-Far away +VIN

Place this cap close to EC

Place this cap close to EC

Place this cap close to EC

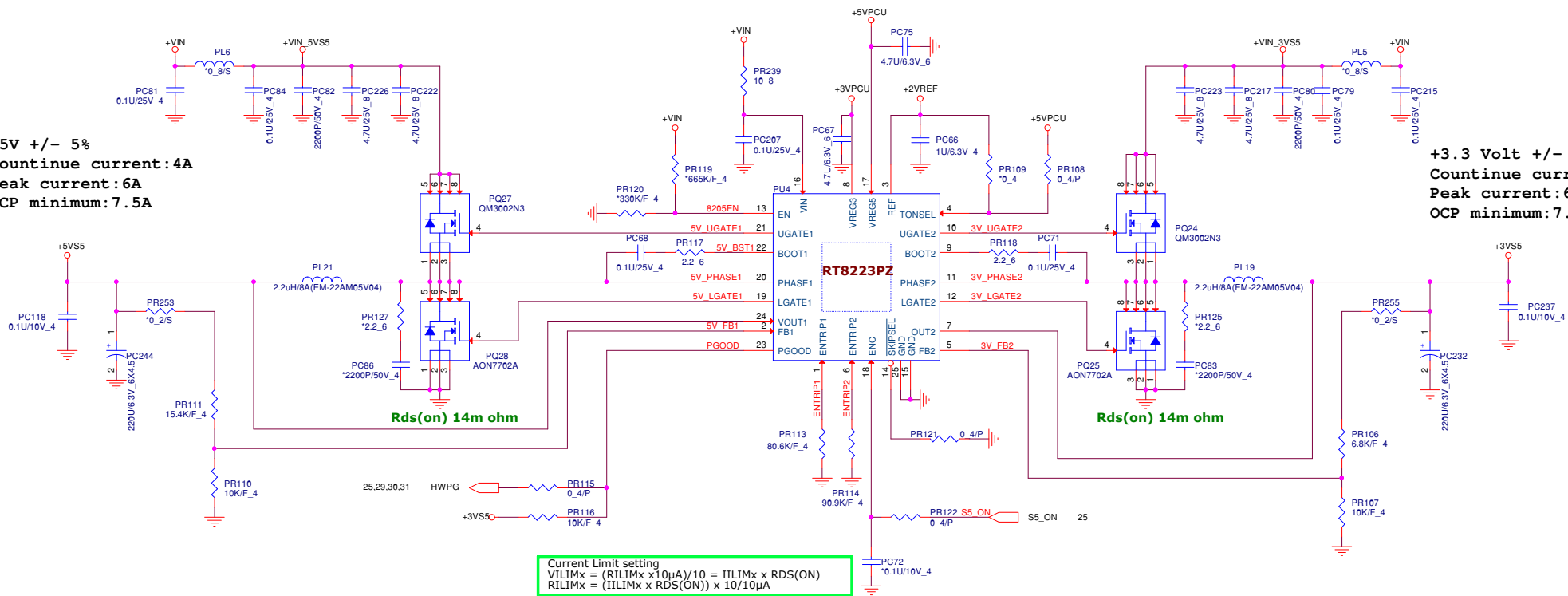


+VH28 36
+3VPCU 7,21,22,23,24,25,26,28

NB5	PROJECT : VOLKS	
	Quanta Computer Inc.	
Size Custom	Document Number	Rev A
	Charger (028681)	
Date: Wednesday, May 23, 2012	Sheet 27 of 37	

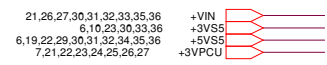
+5V +/- 5%
Countinue current:4A
Peak current:6A
OCP minimum:7.5A

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



Current Limit setting
 $VILIMx = (RILIMx \times 10\mu A) / 10 = IILIMx \times RDS(ON)$
 $RILIMx = (IILIMx \times RDS(ON)) \times 10 / 10\mu A$

TONSEL= VREG5
 Vout1=400kHz/Vout2=500kHz



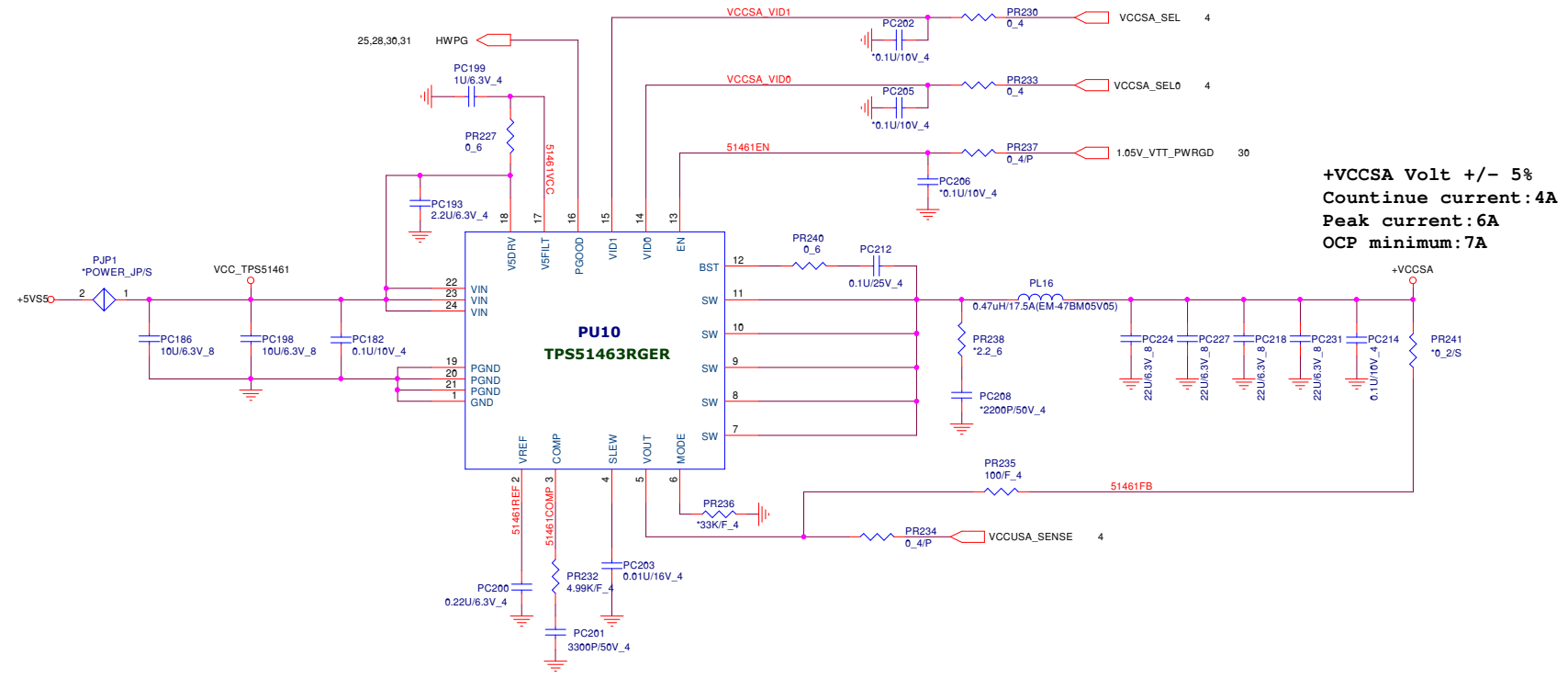
	PROJECT :VOLKS Quanta Computer Inc.	
	Size Custom	Document Number 3/5V55 (RT8223P)
Date: Wednesday, May 23, 2012 Sheet 26 of 37		

TPS51462RGER/AL051462000
 For CPU SV system agent
 voltage slew rate of 0.5 -10 mV/ μ s

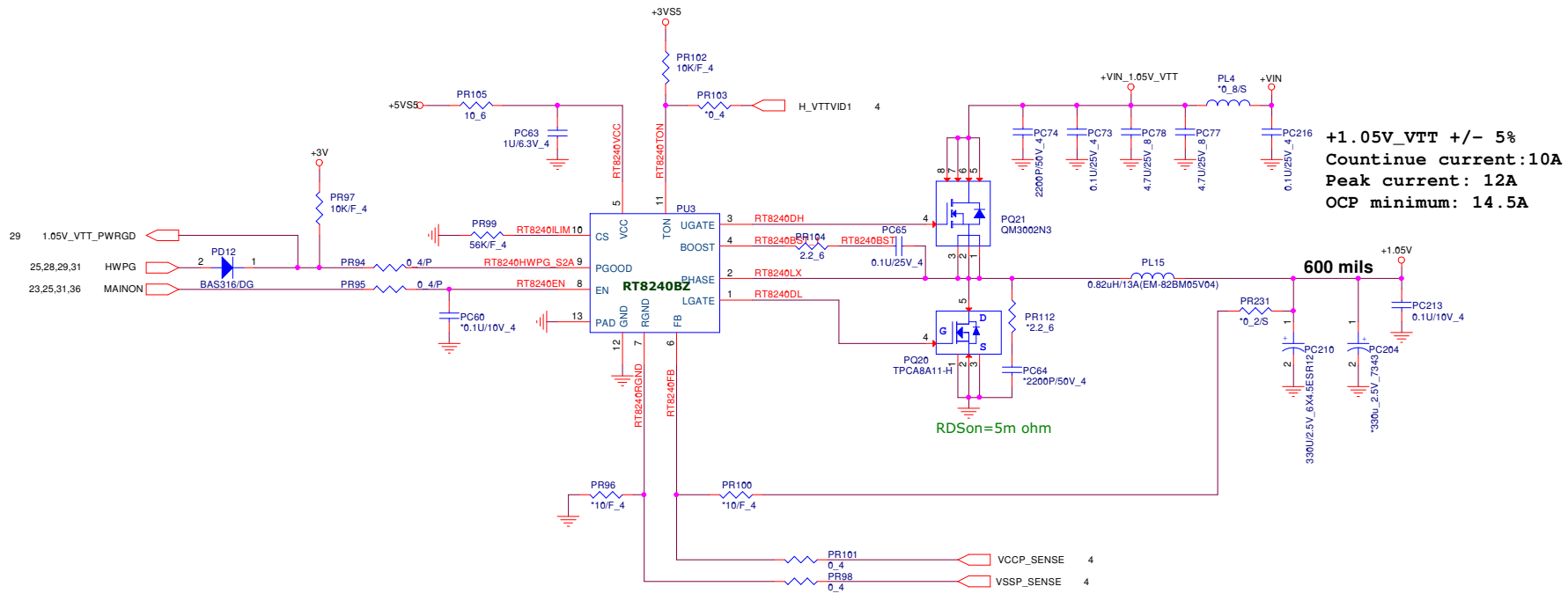
SEL0	SEL1	+VCCSA
0	0	0.9V
0	1	0.8V
1	0	0.725V
1	1	0.675V

TPS51463RGER/AL051463000
 For CPU ULV system agent
 voltage slew rate of 0.5 -10 mV/ μ s

SEL0	SEL1	+VCCSA
0	0	0.9V
0	1	0.85V
1	0	0.775V
1	1	0.75V




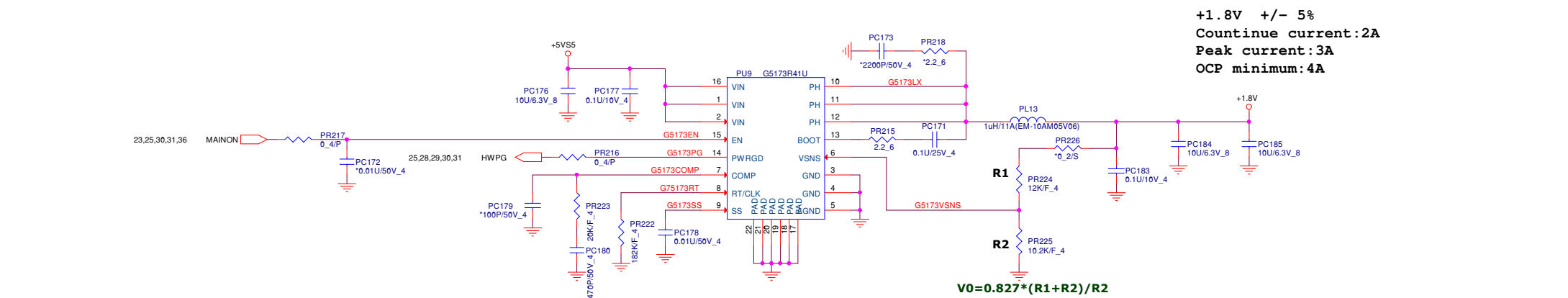
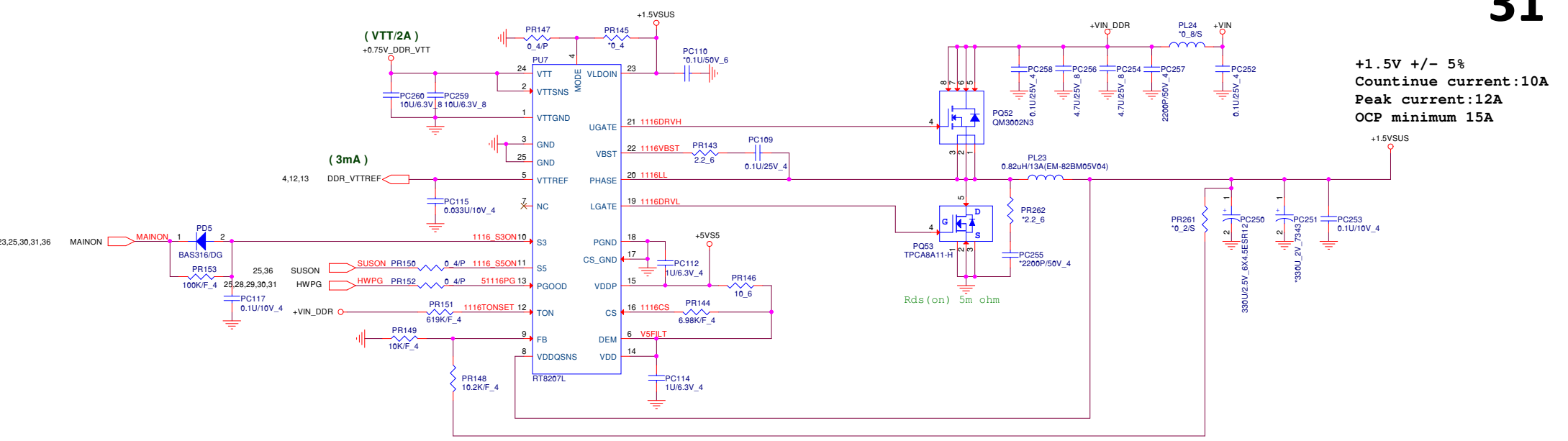
+VCCSA Volt +/- 5%
Countinue current:4A
Peak current:6A
OCP minimum:7A



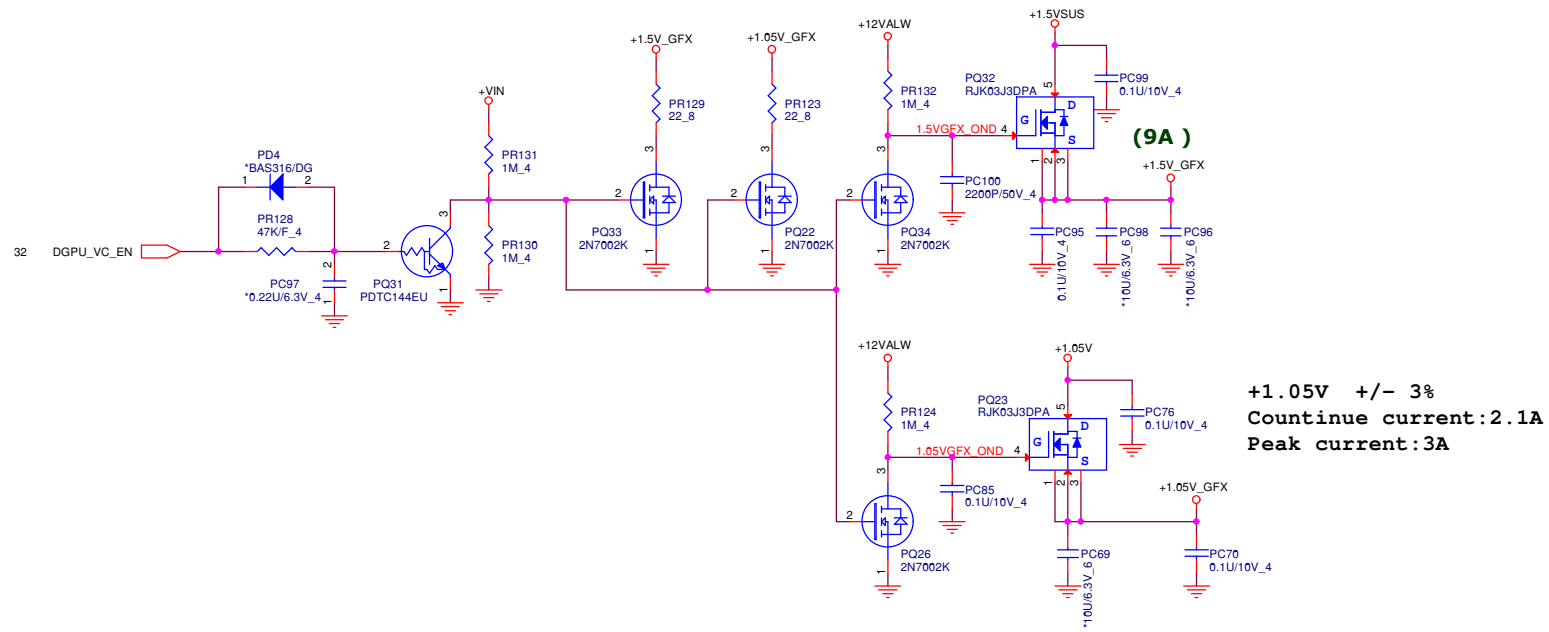
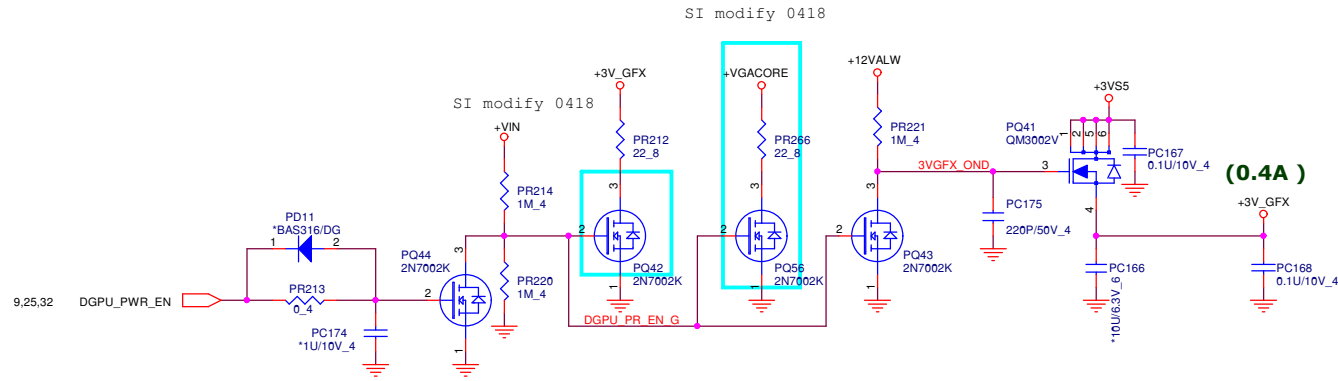
+1.05V_VTT +/- 5%
Countinue current:10A
Peak current:12A
OCP minimum: 14.5A

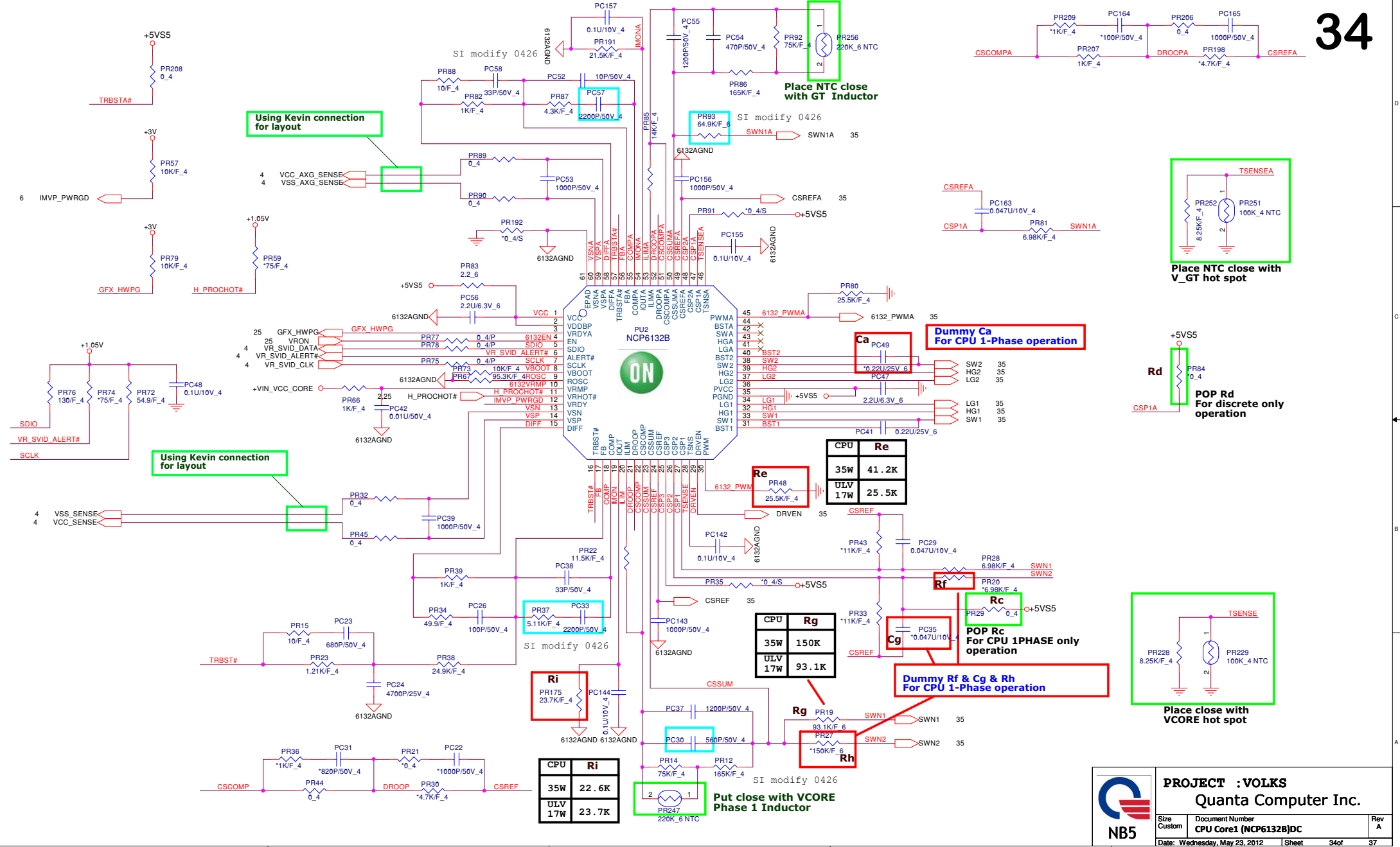
RDSon=5m ohm

	PROJECT :VOLKS Quanta Computer Inc.		
	Size Custom	Document Number +1.05V (RT8240B)	Rev A
	Date: Wednesday, May 23, 2012		Sheet 30 of 37



- 2,4,12,13,31 +1.5VSUS
- 6,10,23,28,30,36 +3VSS
- 14,16,17,32 +3V_GFX
- 15,16,17,18 +1.5V_GFX
- 14,15,16 +1.05V_GFX
- 27,36 +12VALW
- 2,4,6,7,8,10,21,23,30,34 +1.05V

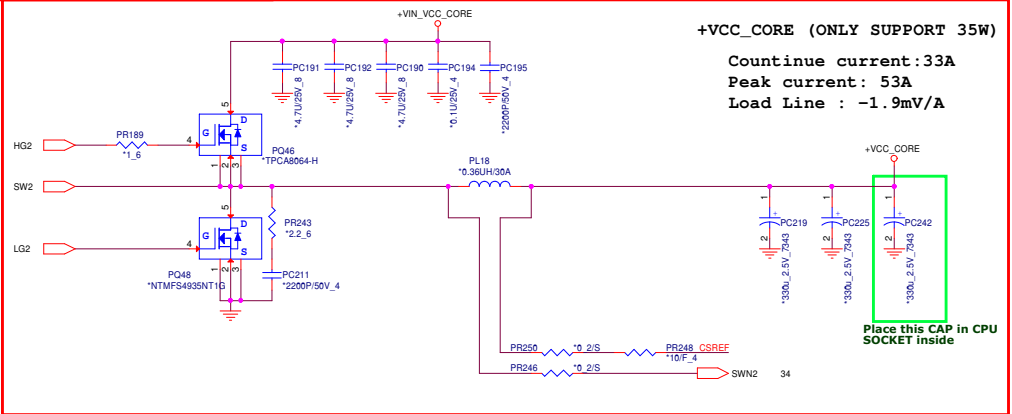
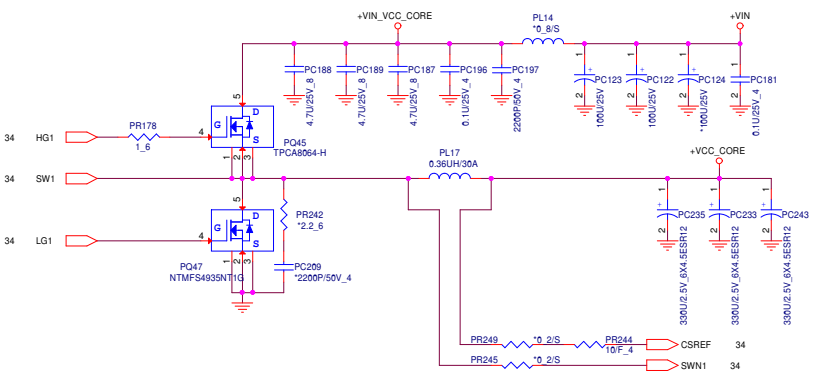




PROJECT :VOLKS
Quanta Computer Inc.

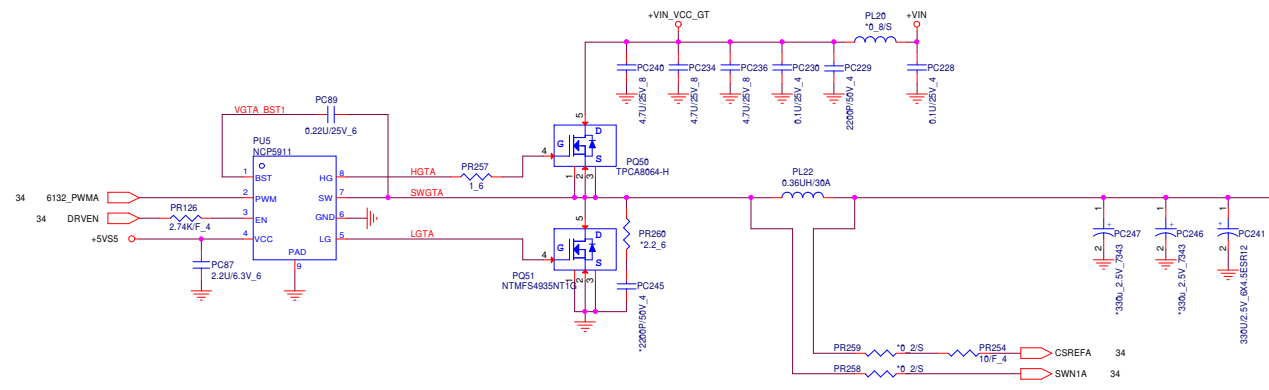
Size Custom	Document Number CPU Core1 (NCP6132B)DC	Rev A
Date: Wednesday, May 23, 2012	Sheet 34of	37

Dummy This Schematic For CPU 1-Phase operation

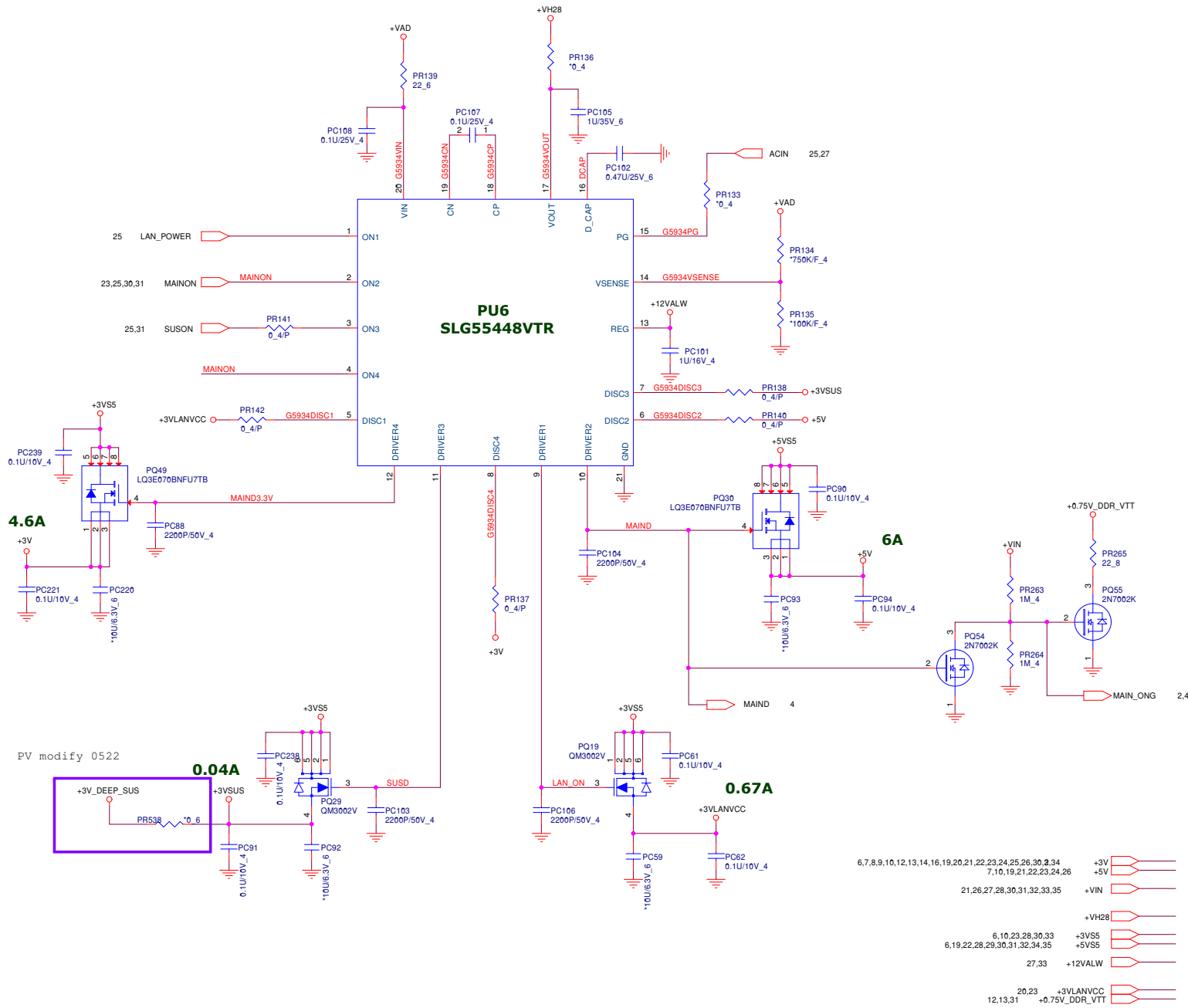


+VCC_CORE (ONLY SUPPORT 35W)
 Countinue current:32A
 Peak current: 53A
 Load Line : -1.9mV/A

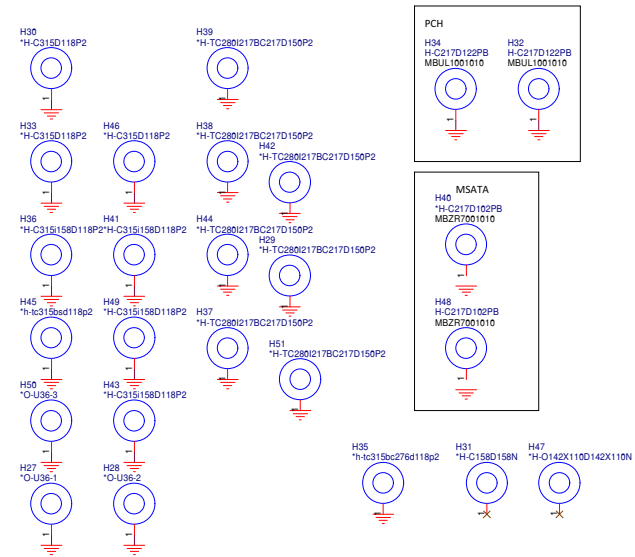
+VCC_CORE (ULV 17W)
 Countinue current:16A
 Peak current: 33A
 Load Line : -2.9mV/A



+VCC_GFX
 Countinue current:21.5A
 Peak current: 33A
 Load Line : -3.9mV/A



15" Hole



Touch Pad Connector

