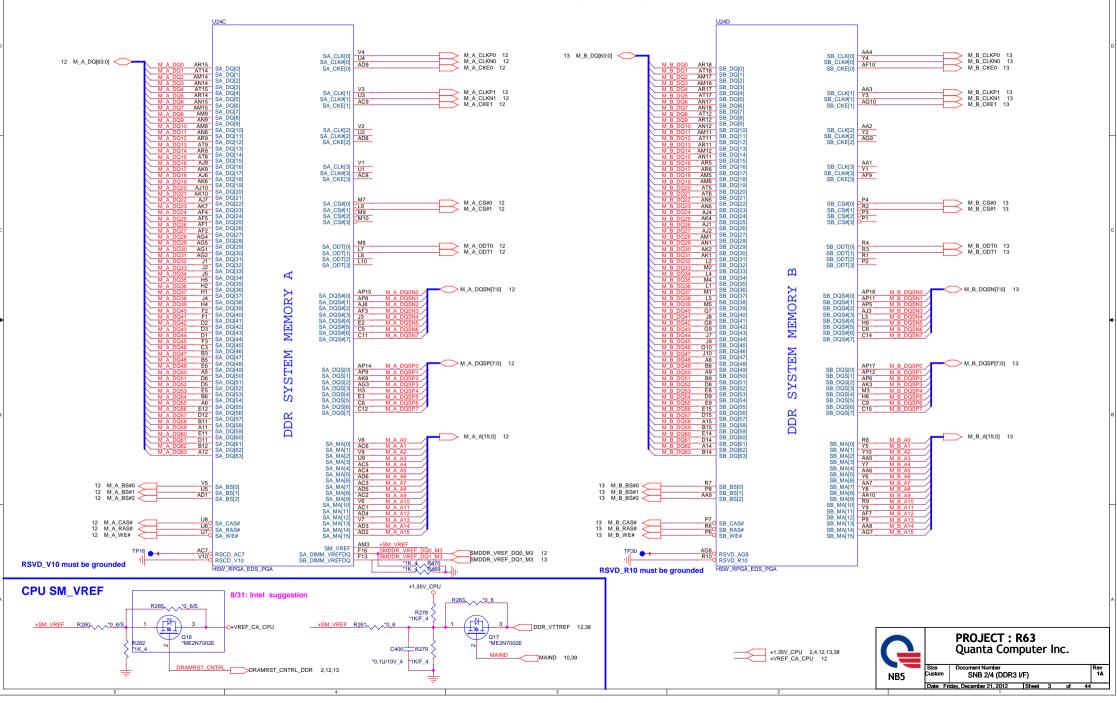
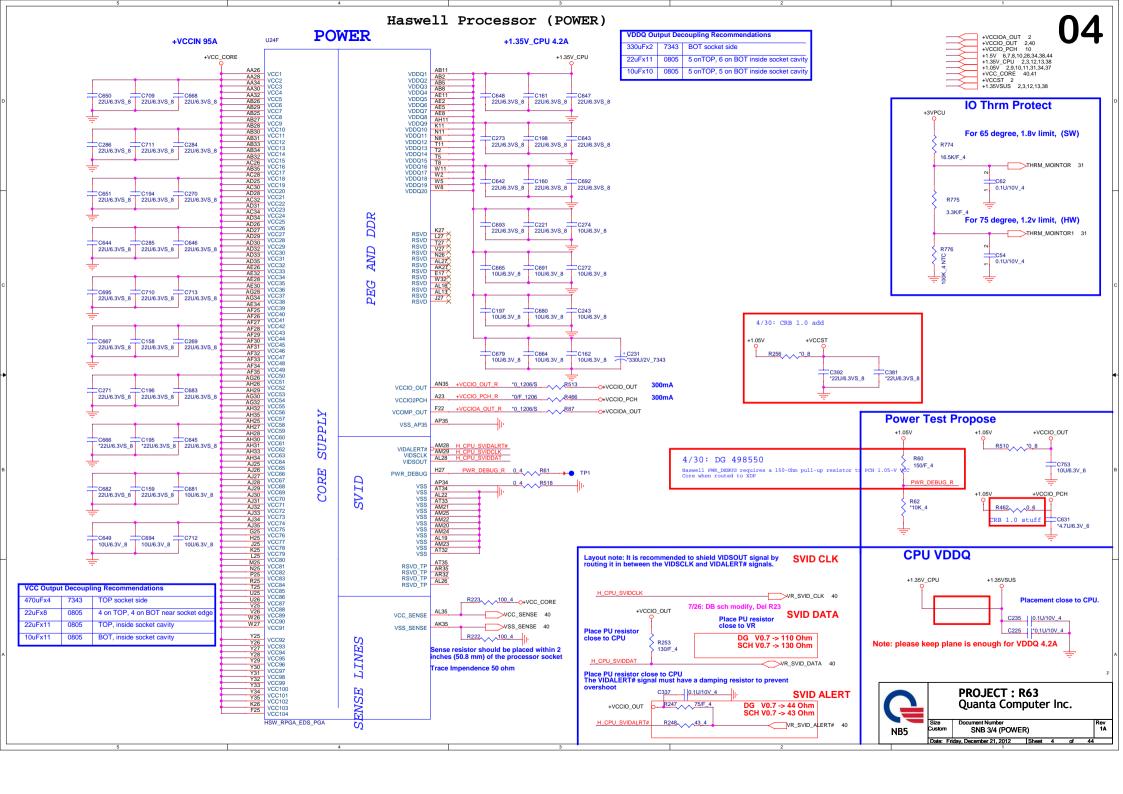
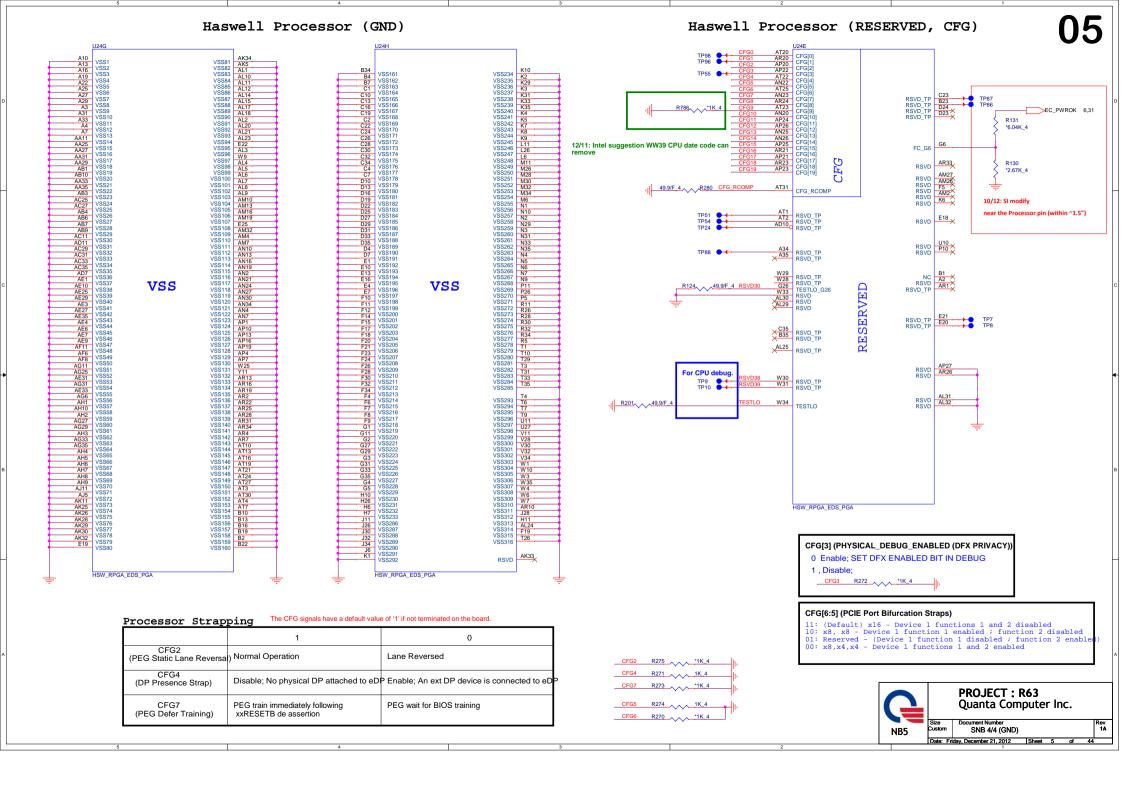
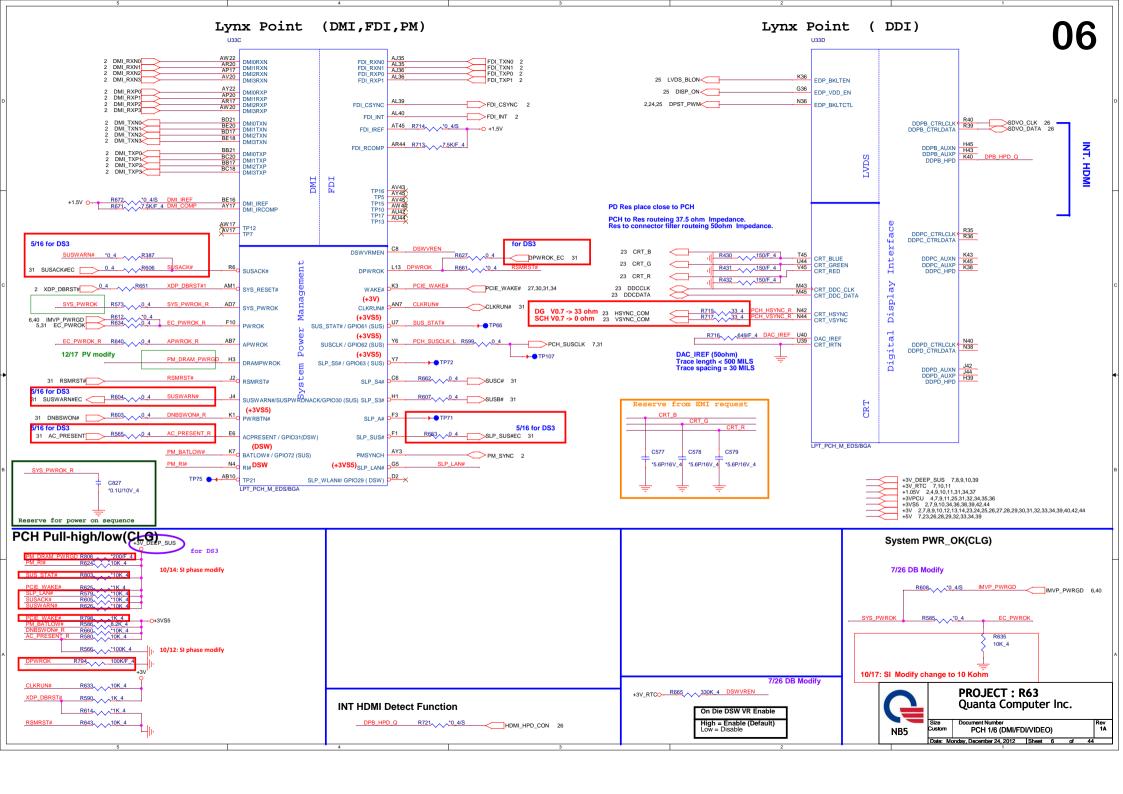


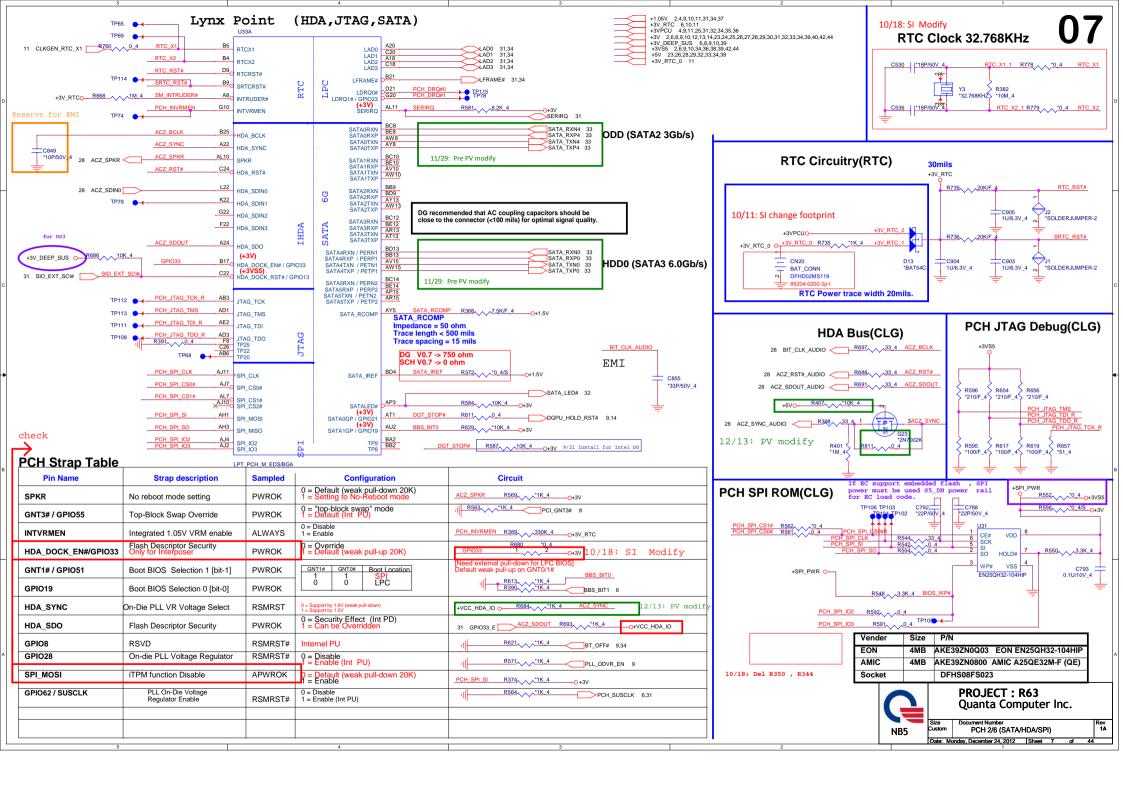
Haswell Processor (DDR3)

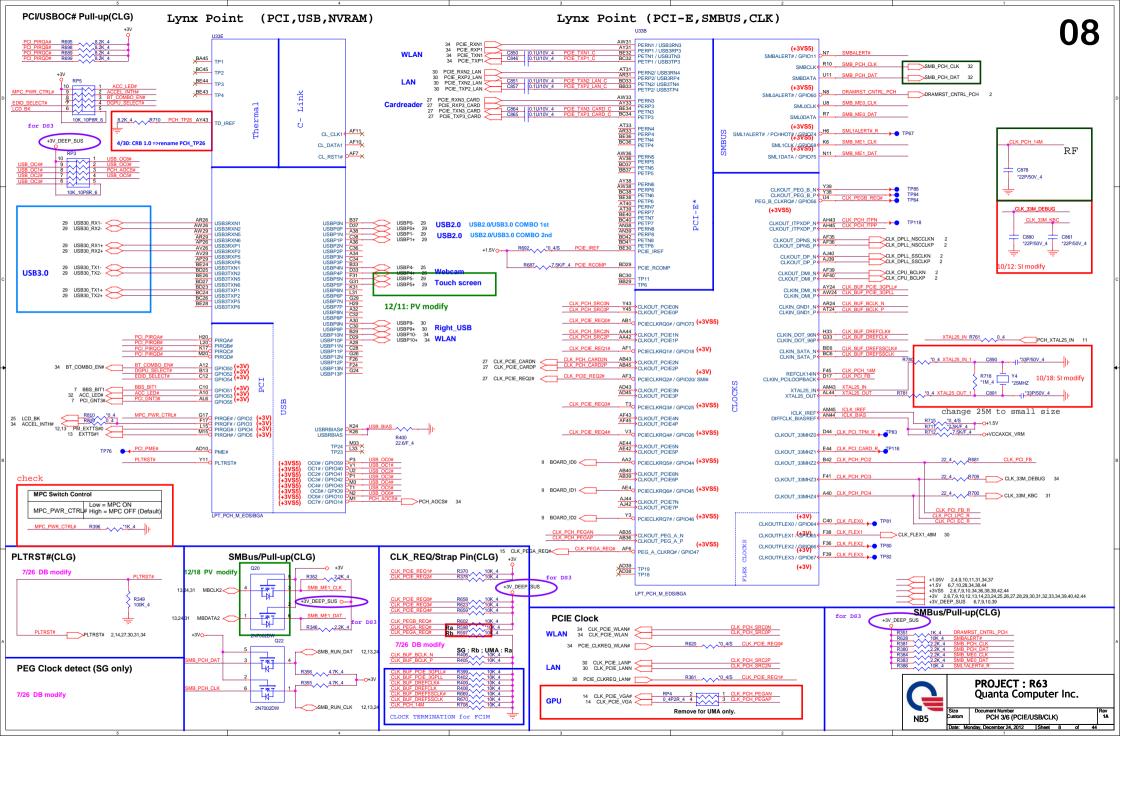


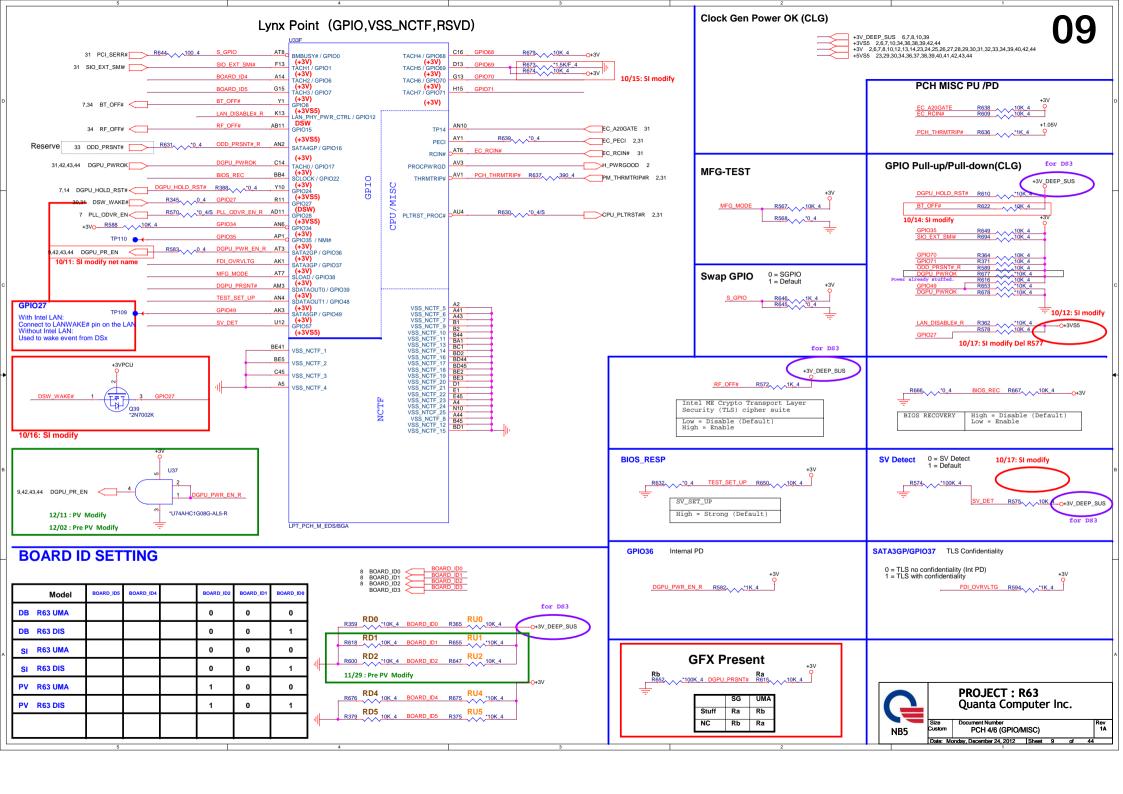


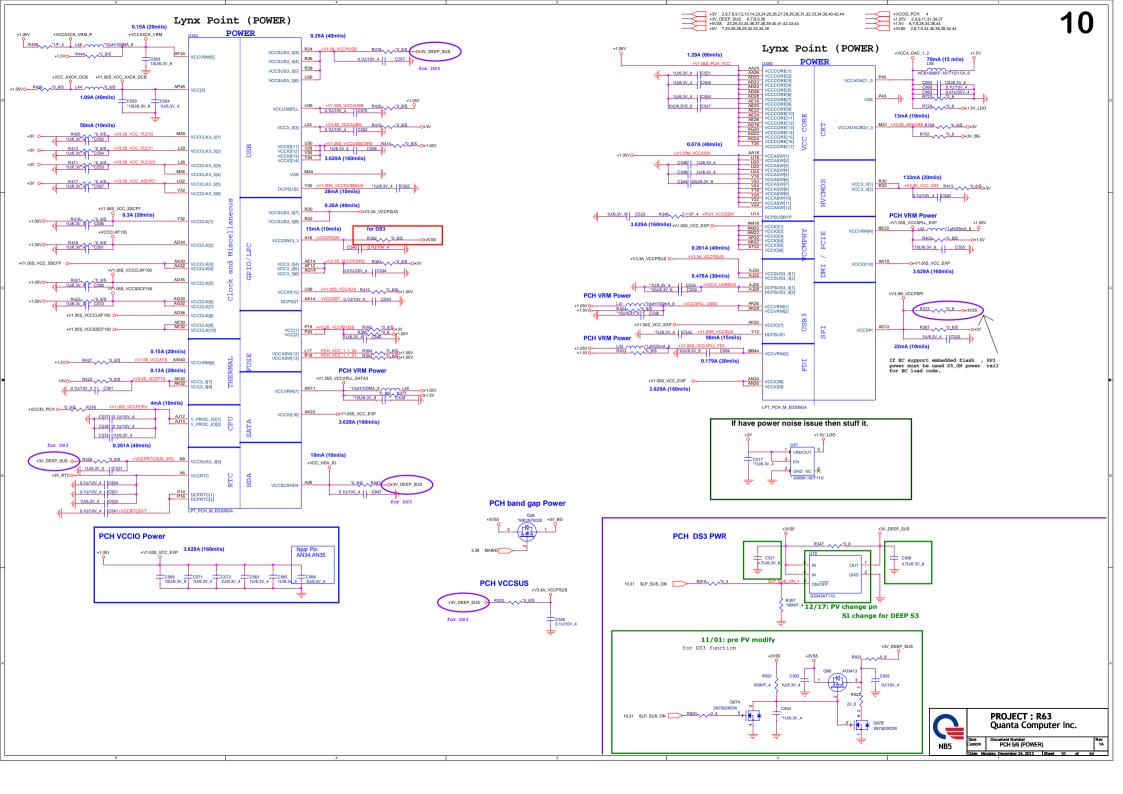




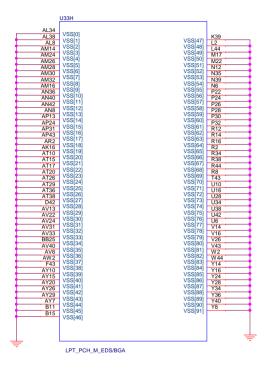






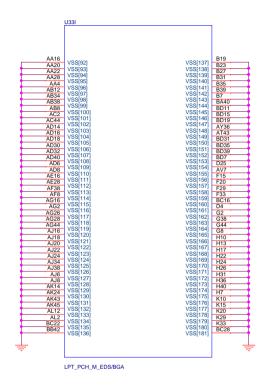


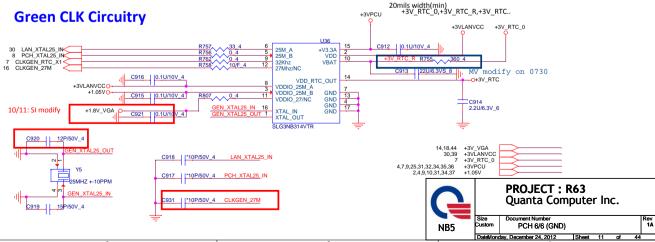
Lynx Point (GND)

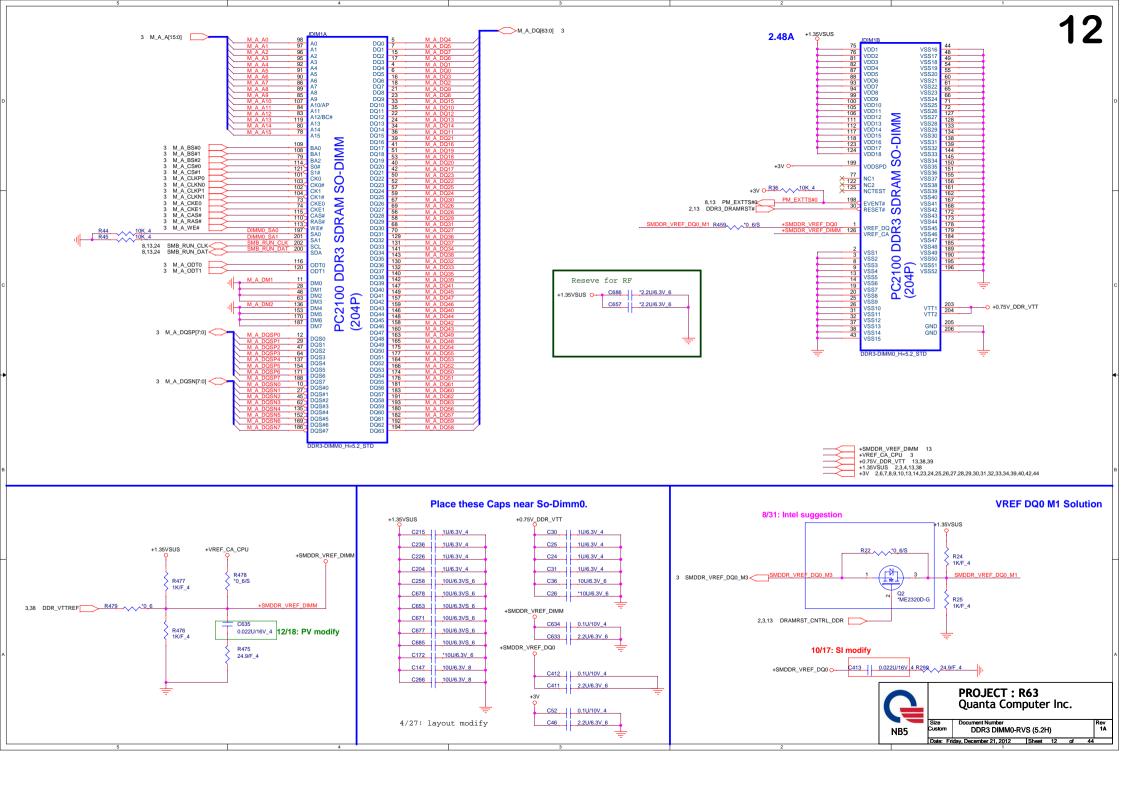


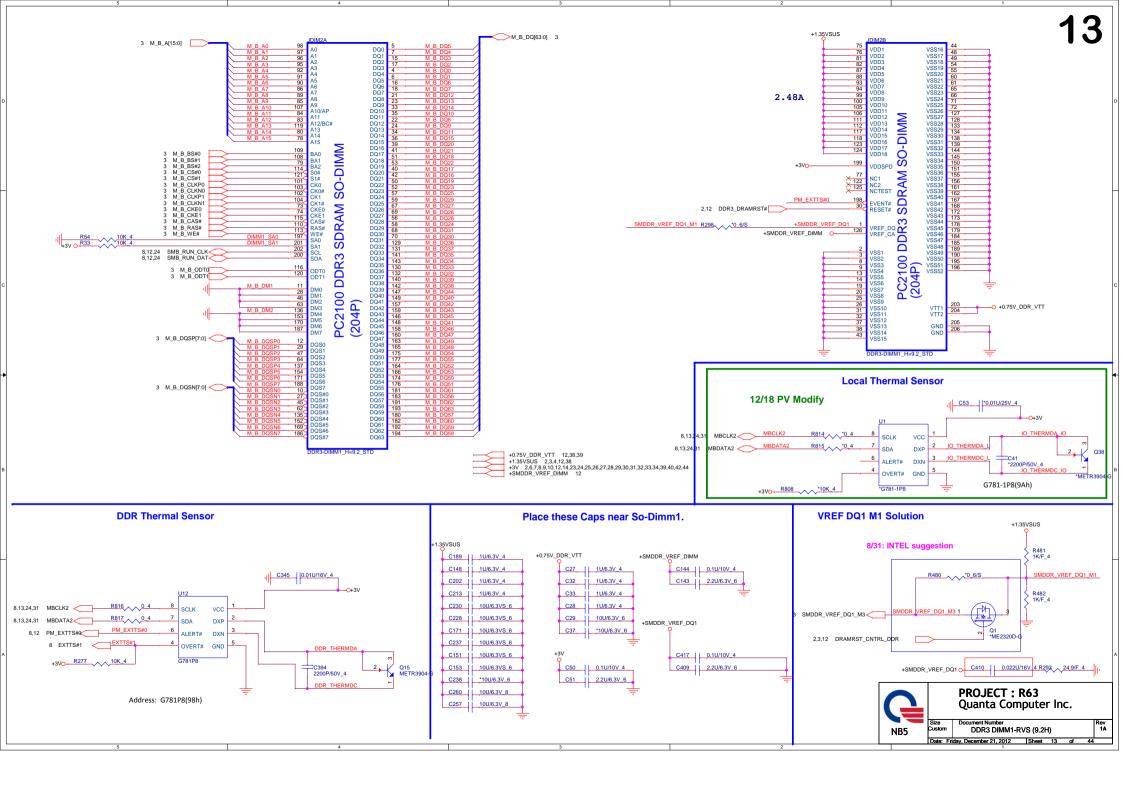
	U36 P/N				
UMA	AL3NB244000				
DIS	AL000314000				

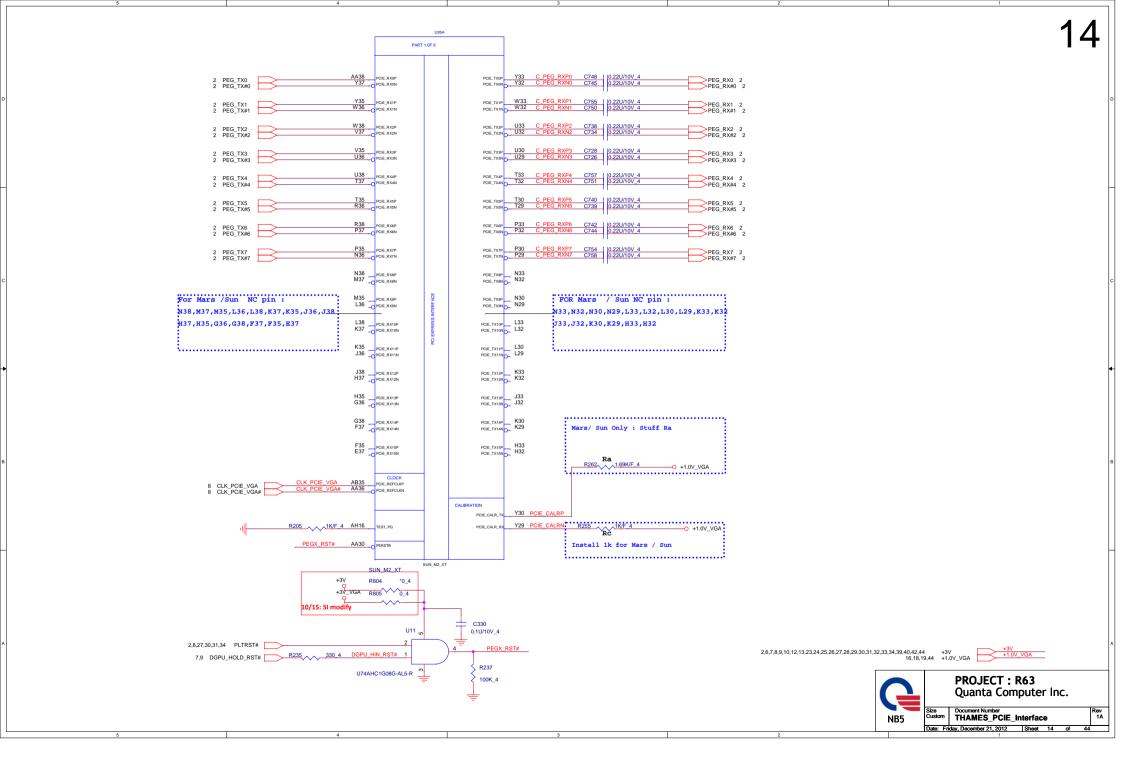
Lynx Point (GND)

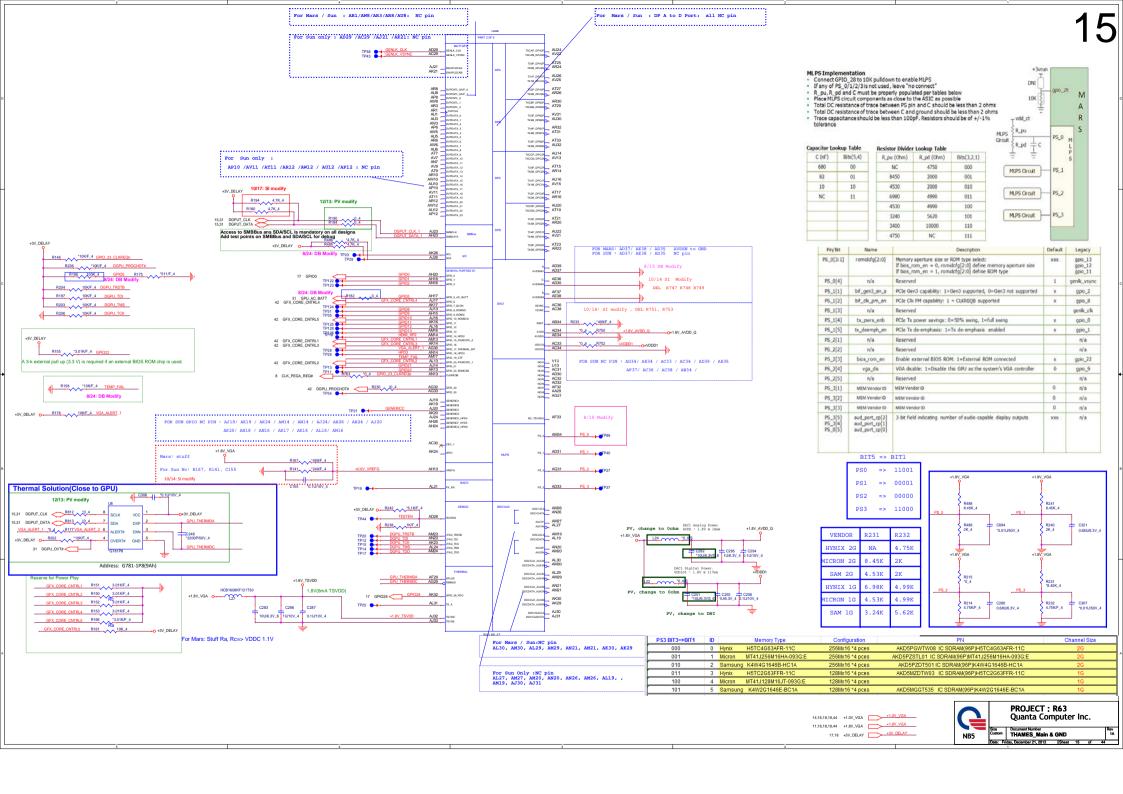


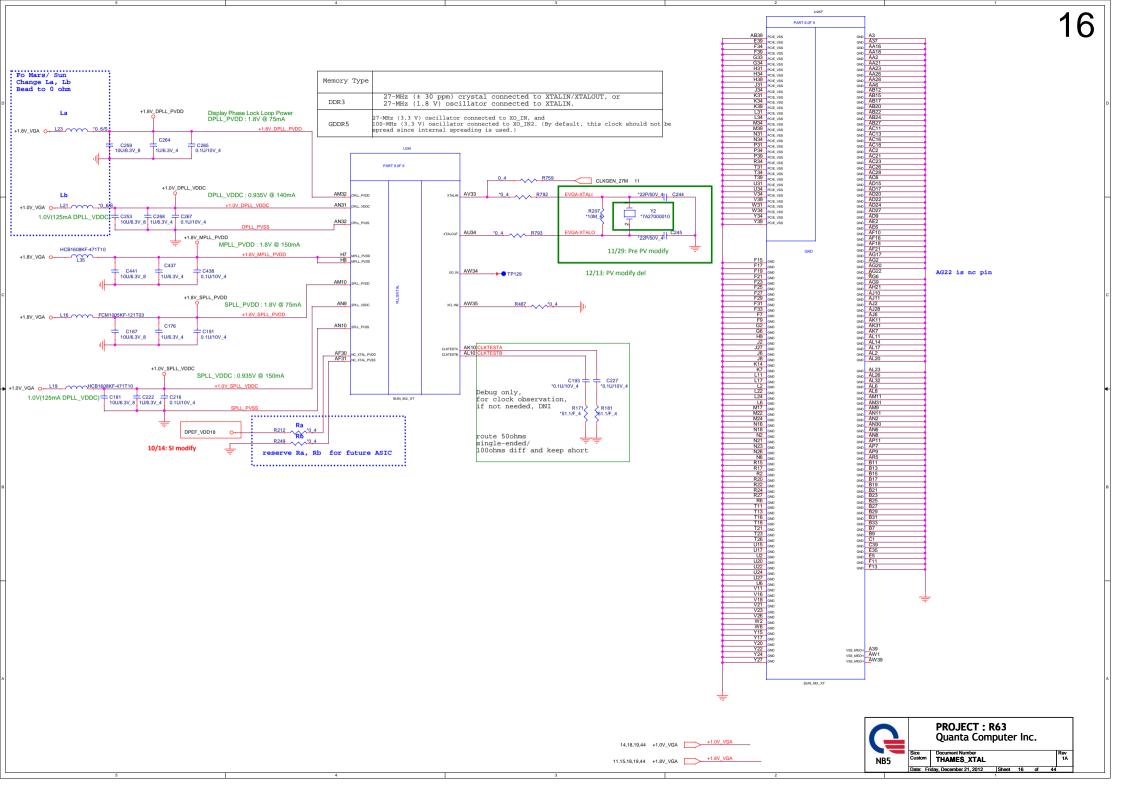


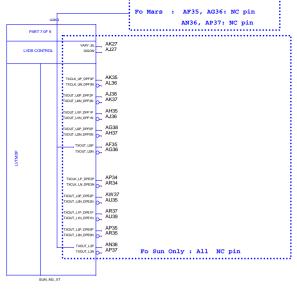


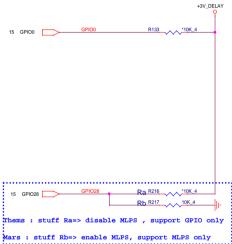










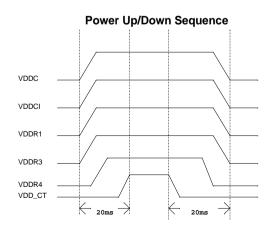


Memory Aperture size

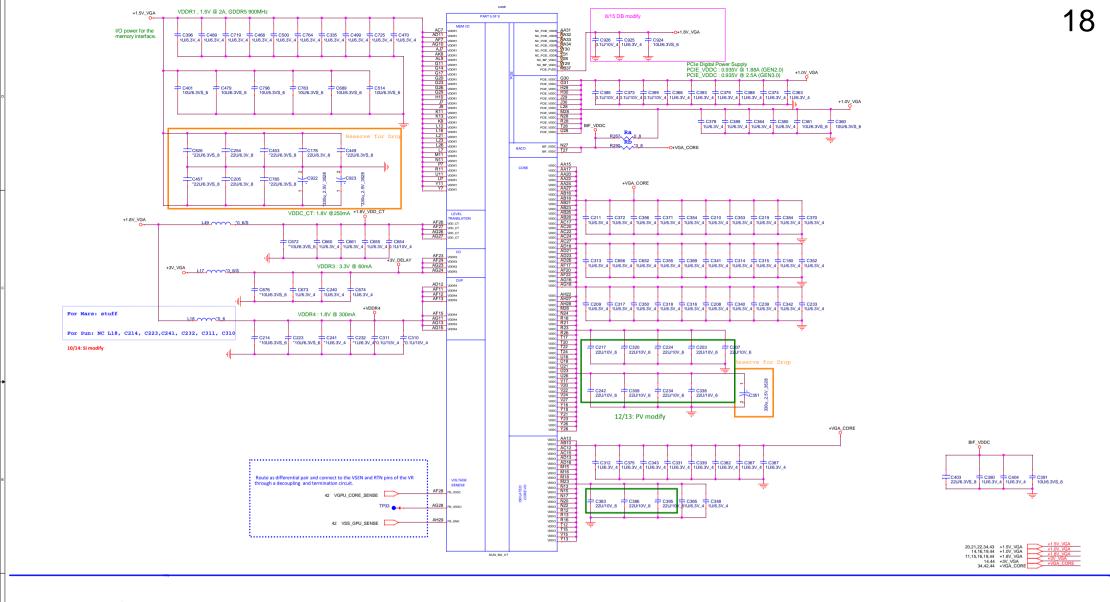
o.	• ••			
GPIO9		GPIO13	GPIO12	GPIO11
BIOSROM		ROMIDCFG2	ROMIDCFG1	ROMIDCFG0
0	128M	0	0	0
0	256M	0	0	1
0	64M	0	1	0
0	32M	0	1	1
0	512M	1	0	0
0	1G	1	0	1
0	2G	1	1	0
0	4G	1	1	1

It is a shared pin strap with CONFIG[2:0] if BIOS_ROM_EN is set to 0.

ALLOW FOR	PULLUP PAD		UBOOK FOR STRAP DETAILS APS AND IF THESE GPIOS ARE USED, NG RESET			
STRAPS	MLPS GPIO PIN DESCRIPTION OF DEFAULT SETTINGS					
MLPS_DISABLE	NA	GPIO_28_FDO	Enable MLPS, NA for Thames/Whistler/Seymour 0: Enable MLPS, disable GPIO PINSTRAP 1: Disable MLPS, enable GPIO PINSTRAP	х		
TX_PWRS_ENB	PS_1[4]	GPIO0	Transmitter Power Savings Enable 0: 50% Tx output swing 1: Full Tx output swing			
TX_DEEMPH_EN	PS_1[5]	GPIO1	PCIE Transmitter De-emphasis Enable 0: Ix de-emphasis disabled 1: Ix de-emphasis enabled			
BIF_GEN3_EN_A	PS_1[1]	GPIO2	PCIE Gen3 Enable (NOTE: RESERVED for Thames/Whistler/Seymour) Q: GR\(\)3 not supported at power-on T: SEN3 supported at power-on			
BIF_VGA DIS	PS_2[4]	GPIO9	VGA Control 0: VGA controller capacity enabled (iv VGA controller capacity enabled) (iv VGA controller capacity disabled (for multi-GPU)	0		
ROMIDCFG[2:0]	PS_0[31]	GPIO[13:11]	Serial ROM type or Memory Aperture Size Select SB 822 = 1, defines memory aperture size 100 - 5 (RAM) 100 - 5 (RAM)	xxx		
BIOS_ROM_EN	PS_2[3]	GPIO22	Enable external BIOS ROM device g: Disabled f: Enabled	Х		
AUD[1] AUD[0]	NA NA	HSYNC VSYNC	No audic function Audic for DP and HDMI if dongle is detected Audic for both DP and HDMI Audic for both DP and HDMI HDMI must only be enabled on systems that are legally entitled. It is the recommend			
CEC_DIS	PS_0[4]	GENLK_VSYNC	Enable CEC function. Reserved for Thames/Whistler/Seymour 0: Disabled 1: Enabled	Х		
RESERVED	PS_1[3] PS_1[2] NA	GENLK_CLK GPIO8	NOTE: ALLOW FOR PULLUP PADS FOR THE RESERVED STRAPS BUT DO NOT INSTALL RESIST. IF THESE GPIOS ARE USEED, THEY MUST KEEP LOW AND NOT CONFLICT DURING RESET Reserved Reserved	OR 0		
RESERVED RESERVED RESERVED	NA NA NA	GPIO21 GENERICC	Reserved Reserved (for Thames/Whistler/Seymour only)	0		
AUD_PORT_CONN_PINSTRAP[2] AUD_PORT_CONN_PINSTRAP[1] AUD_PORT_CONN_PINSTRAP[0]	PS_3[5] PS_3[4] PS_0[5]	NA NA NA	STRAPS TO INDICATE THE NUMBER OF AUDIO CAPABLE DISPLAY OUTPUTS 111 = 0 usable endpoints 110 = 1 usable endpoints 101 = 2 usable endpoints 101 = 2 usable endpoints 011 = 3 usable endpoints 011 = 4 usable endpoints 011 = 5 usable endpoints 010 = 5 usable endpoints 001 = 6 usable endpoints 001 = 6 usable endpoints 000 = all endpoints are usable	xxx		



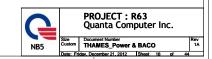


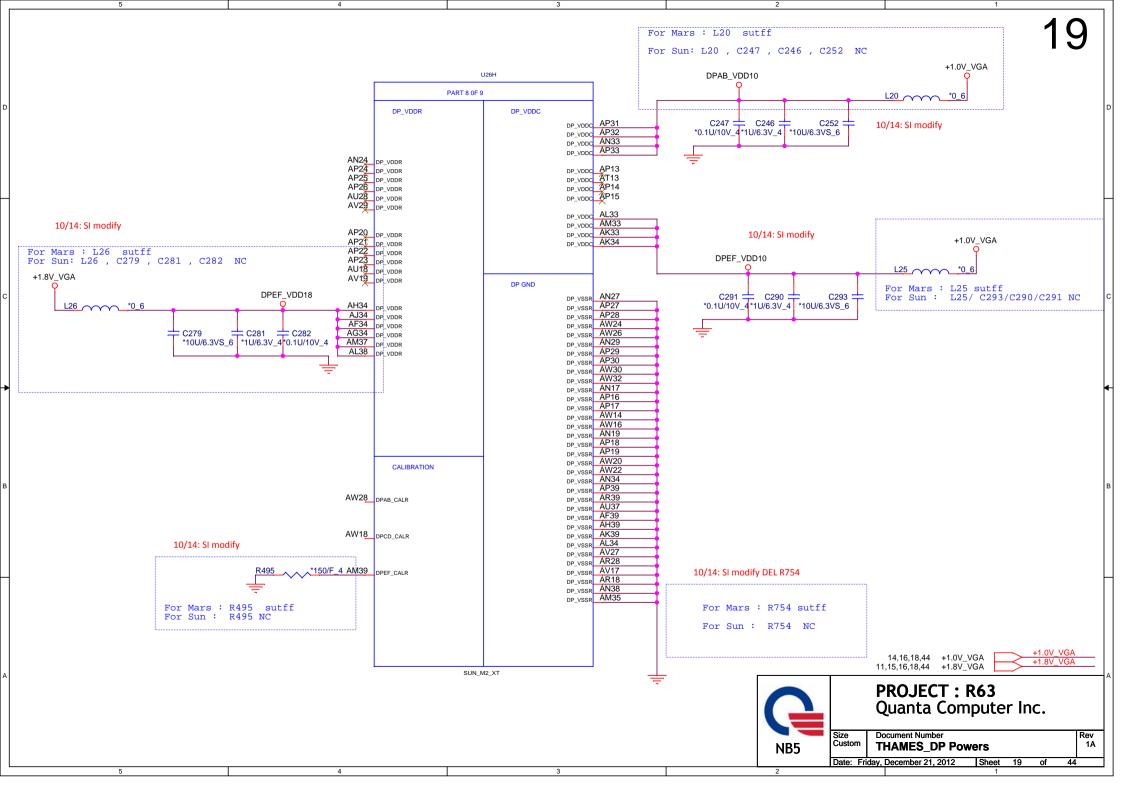


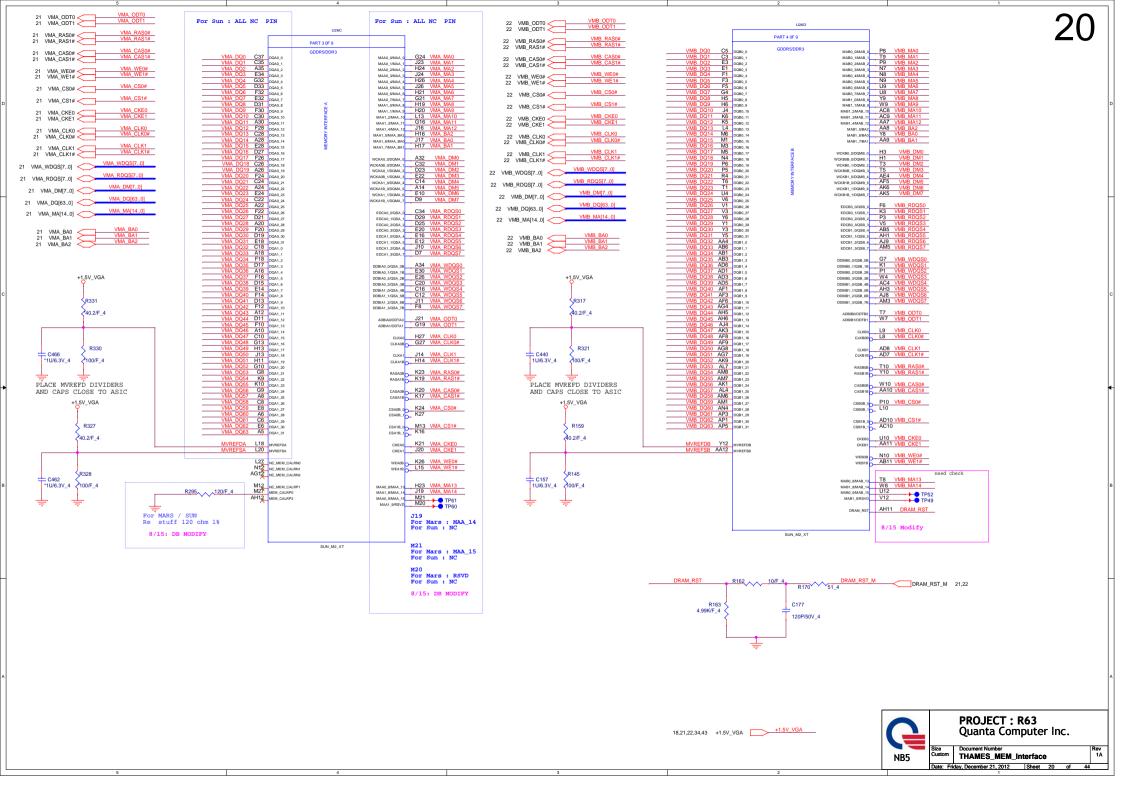
Support BACO Mode

Note1. 1. No BACO Support :BIF_VDDC shorts with VDDC (Install Ra)

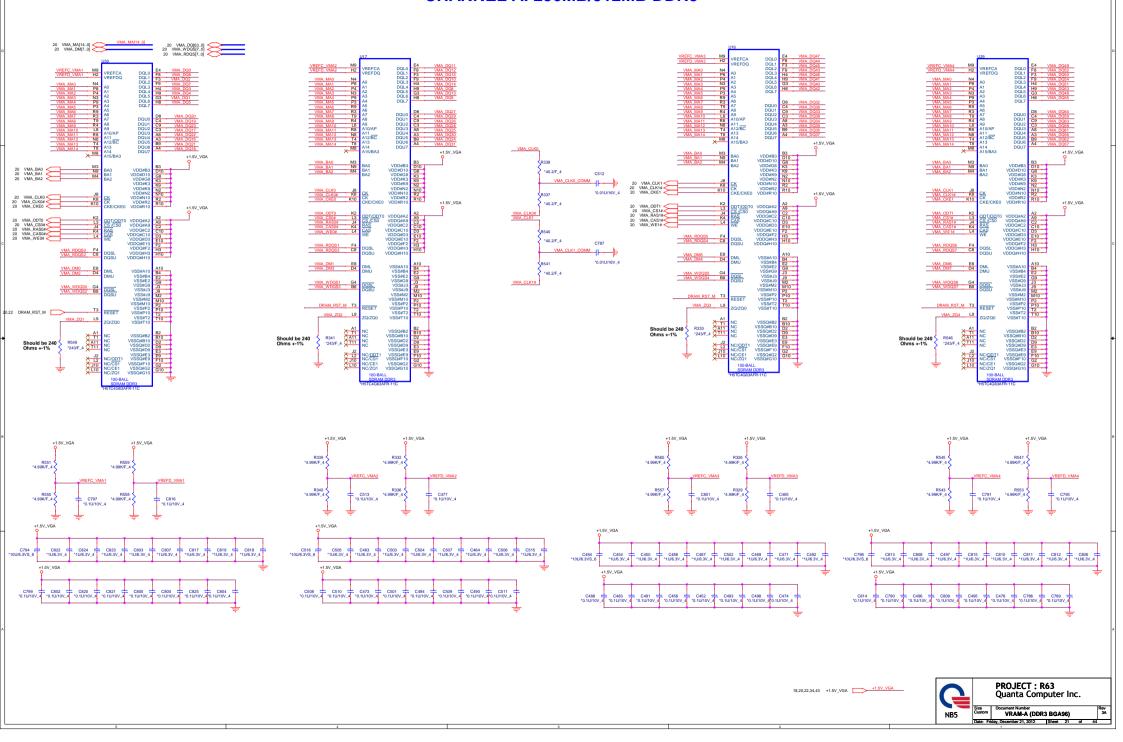
PX_EN = 0, for Normal Operation PX_EN = 1, for BACO MODE BACO Support: Refer to the BACO reference schematics/Application note for detail about BIF_VDDC Rail if BACO is Supported (Uninstall Ra)







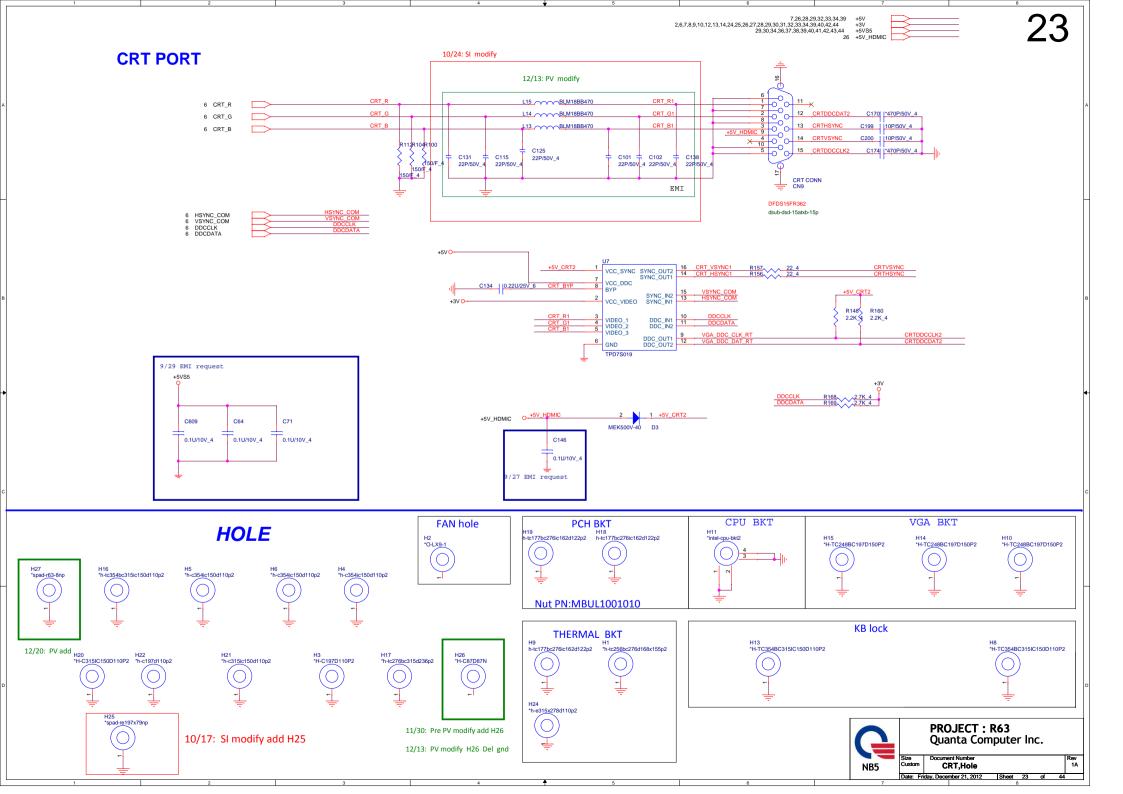
CHANNEL A: 256MB/512MB DDR3

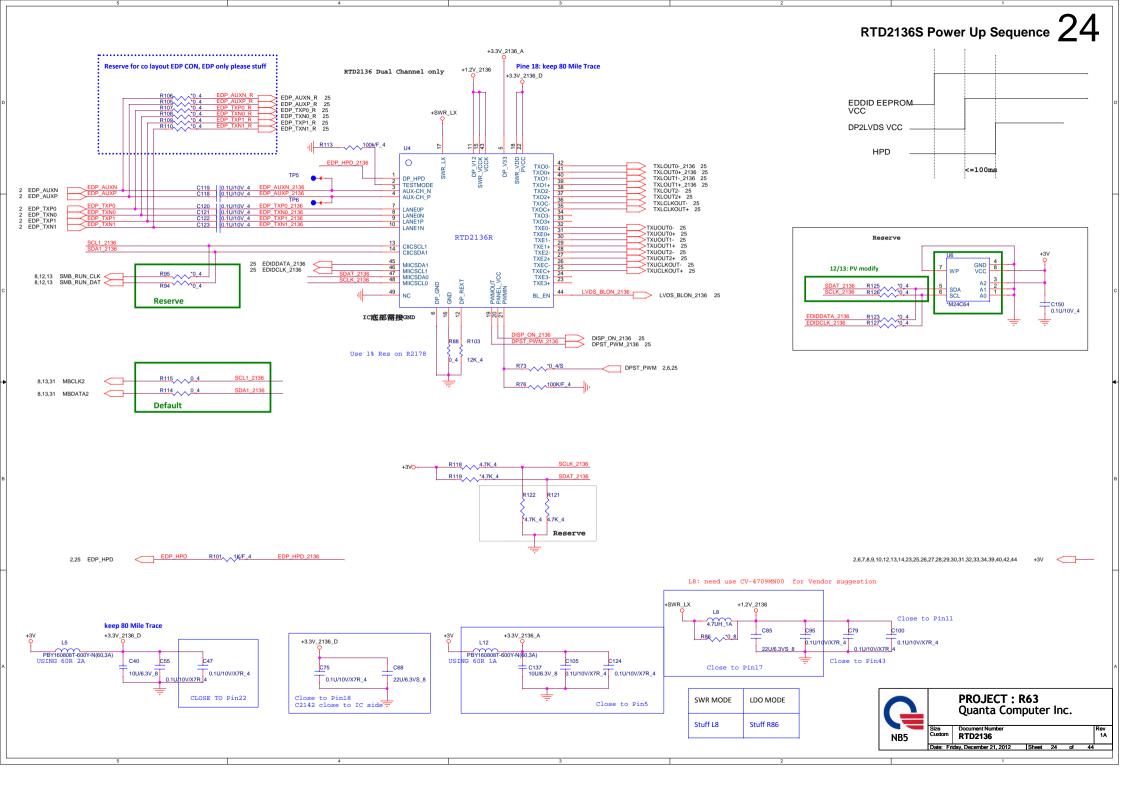


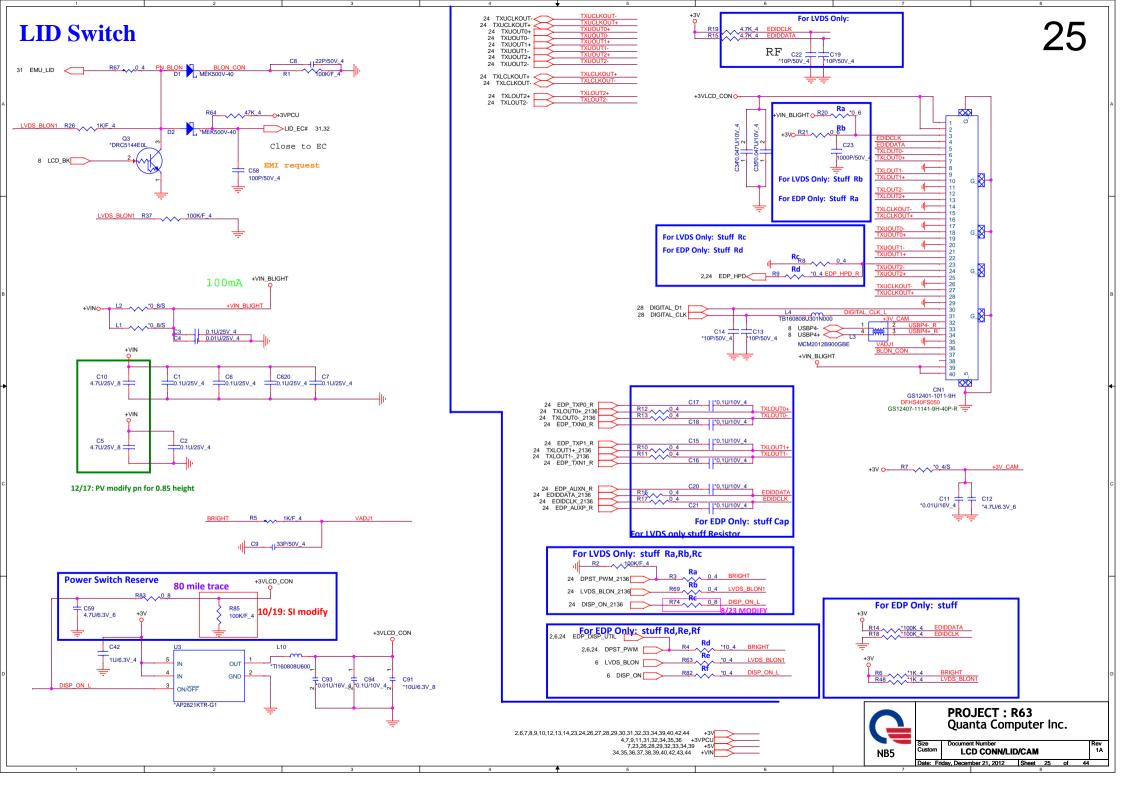
VRAM-B (DDR3 BGA96)

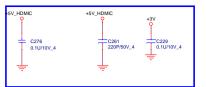
NB5

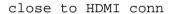
CHANNEL B: 256MB/512MB DDR3 20.22 VMB_MA0 20.22 VMB_MA1 20.22 VMB_MA2 20.22 VMB_MA3 20.22 VMB_MA4 20.22 VMB_MA5 DQU0 DQU1 DQU2 DQU3 DQU4 DQU6 DQU6 DQU6 VDDQ#A VDDQ#C VDDQ#C1 VDDQ#D VDDQ#E1 VDDQ#F VDDQ#H VDDQ#A VDDQ#C VDDQ#I VDDQ#E VDDQ# VDDQ# 0.01U/16V 4 C168 VMB_CLK1_COMM 20,21,22 DRAM_RST_M 0.01U/16V 4 20,21,22 DRAM_RST_M Should be 240 Ohms +-1% Should be 240 Ohms +-1% VSSQ#B2 VSSQ#B10 VSSQ#B2 VSSQ#B3 VSSQ#B2 VSSQ#B2 VSSQ#B2 VSSQ#B2 R229 243/F_4 R140 243/F_4 VMB_CLK1# VSSQ#B2 VSSQ#B10 VSSQ#D2 VSSQ#D9 VSSQ#E3 VSSQ#E9 VSSQ#F10 VSSQ#G10 R506 243/F_4 +1.5V VGA R310 4.99K/F_4 +1.5V_VGA +1.5V_VGA +1.5V_VGA +1.5V_VGA C329 1U/6.3V_4 C780 = C778 = 1U/6.3V_4 | 1U/6.3V_4 PROJECT: R63 Quanta Computer Inc. 18,20,21,22,34,43 +1.5V_VGA +1.5V_VGA

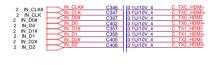








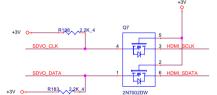


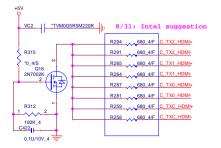


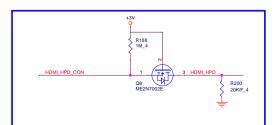
6 SDVO_CLK
6 SDVO_DATA
SDVO_DATA

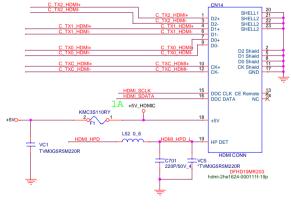
6 HDMI_HPD_CON HDMI_HPD_CON

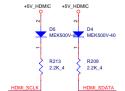
Close to HDMI Connector









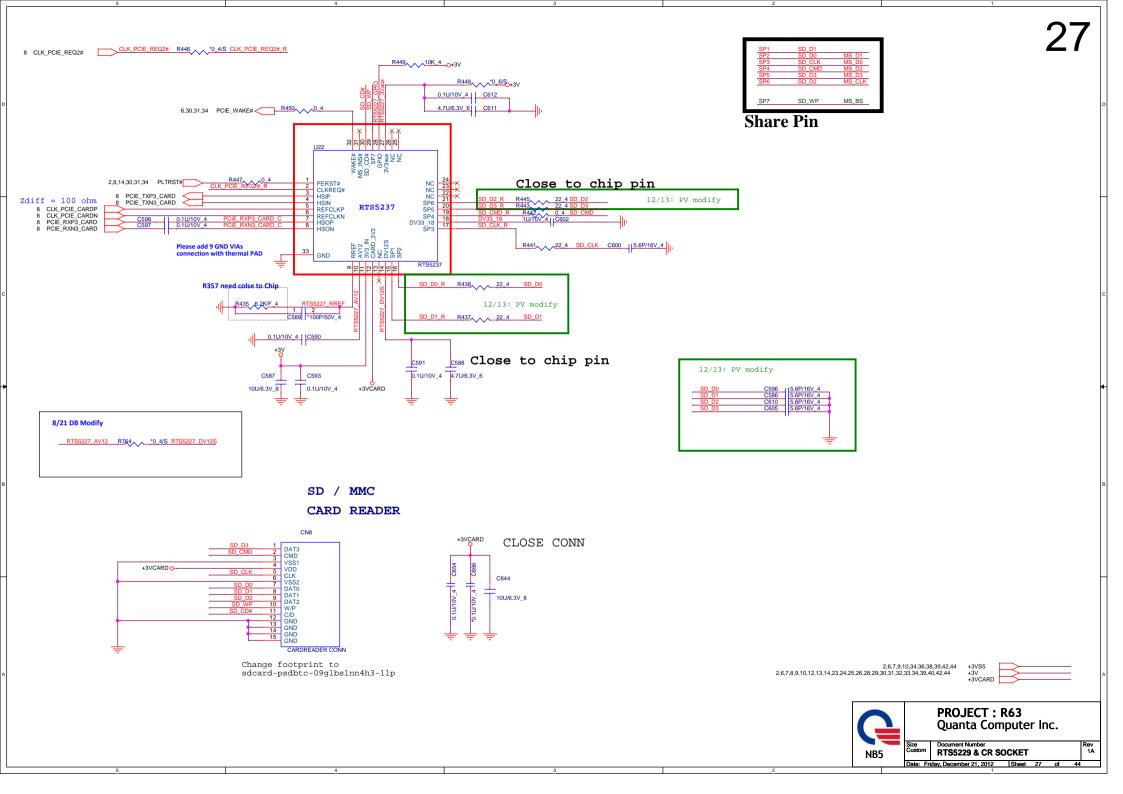


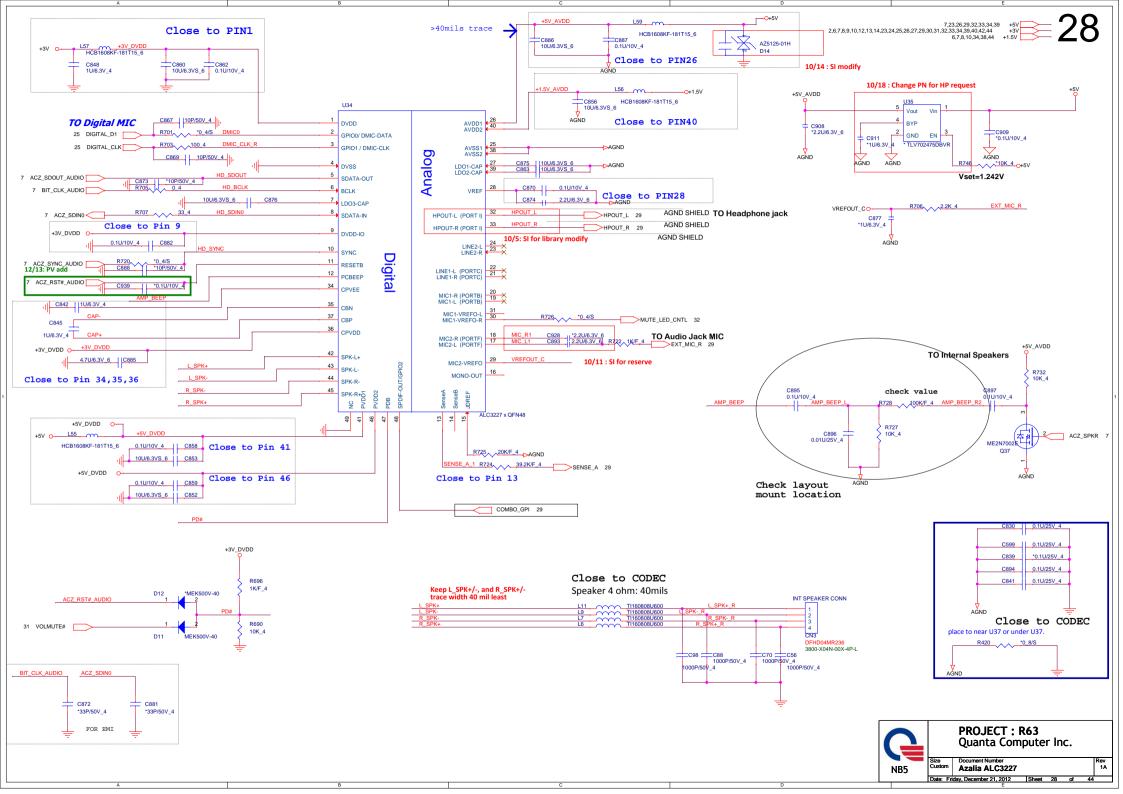


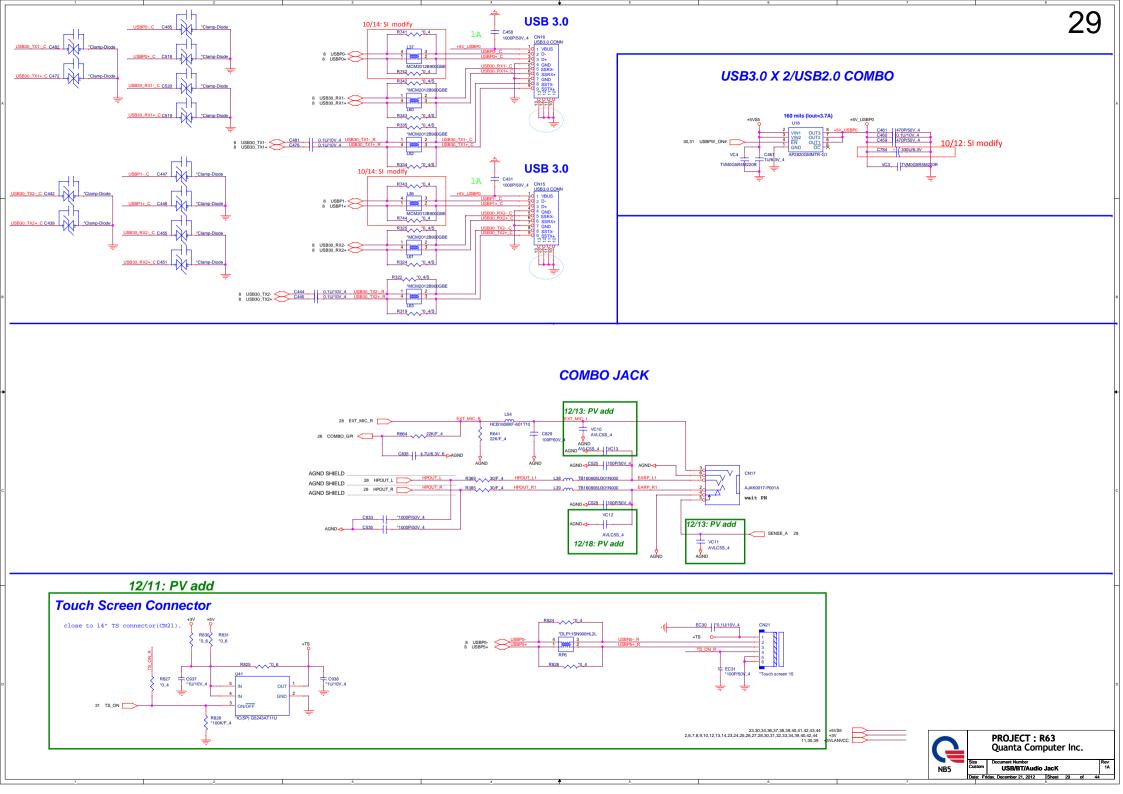
PROJECT: R63
Quanta Computer Inc.

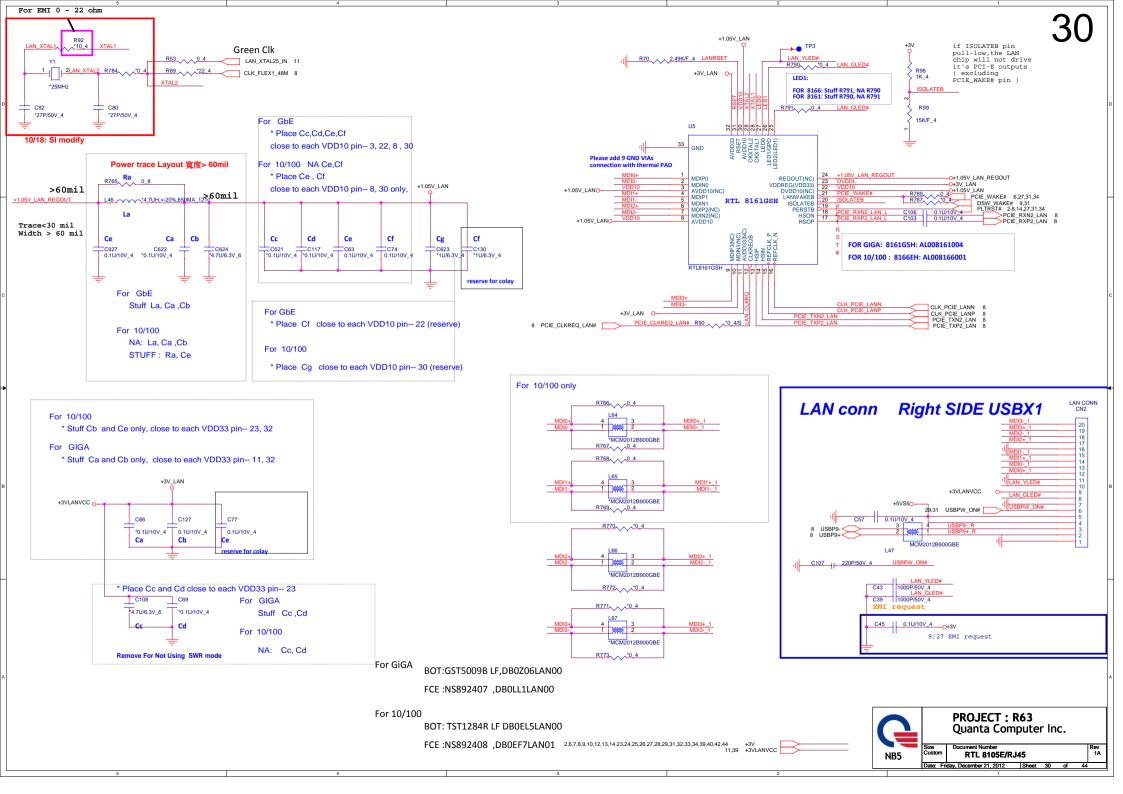
e Document Number
HDMI CONN

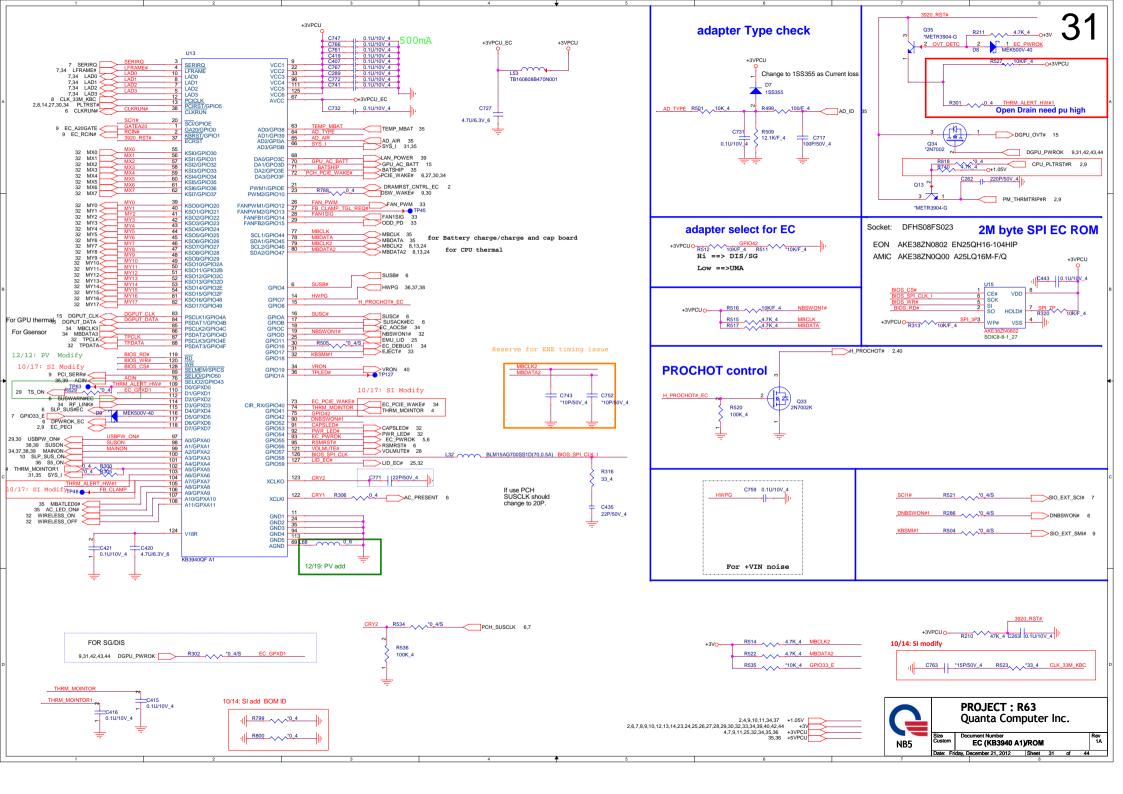
Date: Friday, December 21, 2012 Sheet 26 of 44

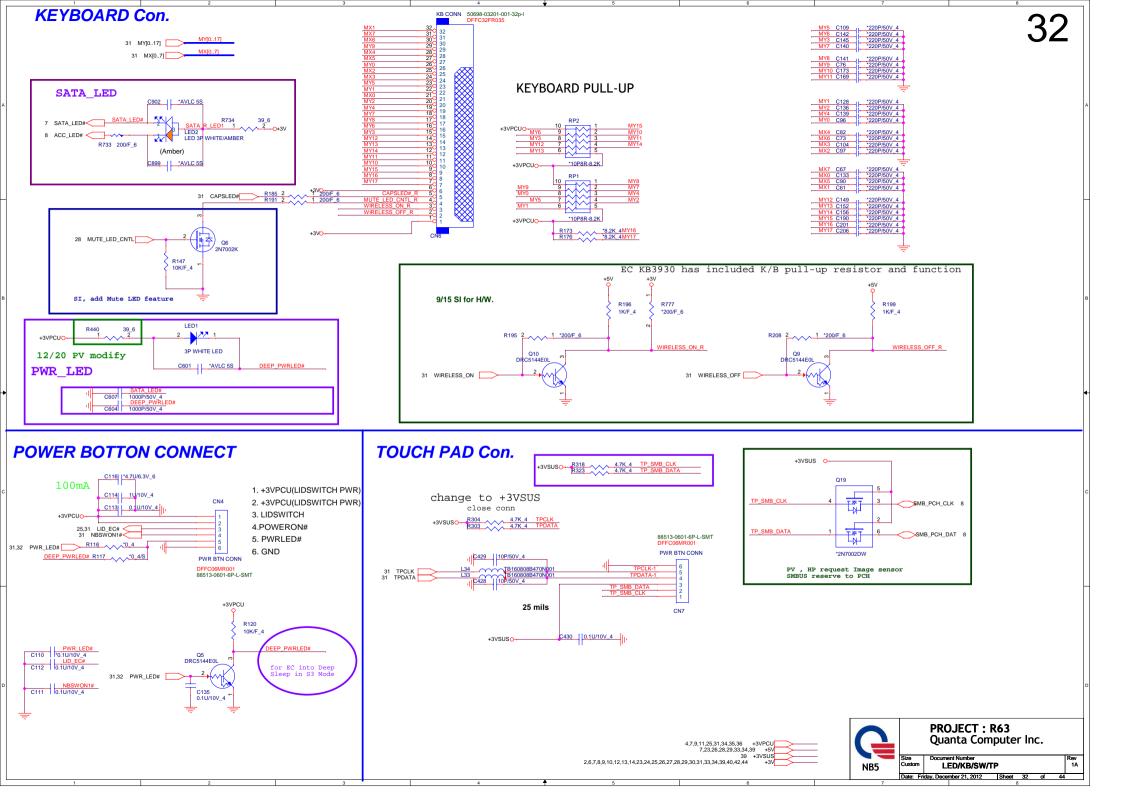


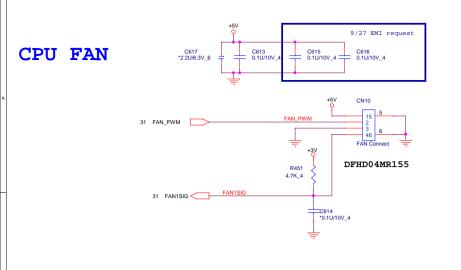






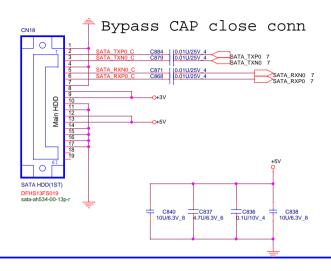




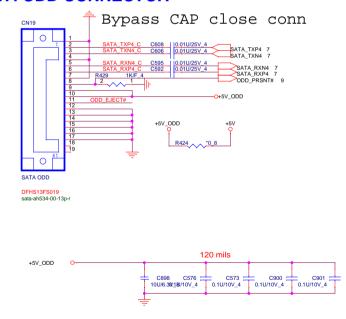


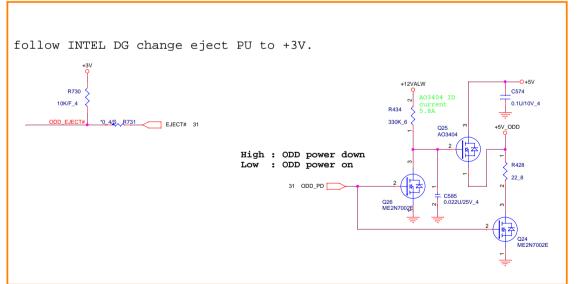
SATA HDD CONNECTOR

33



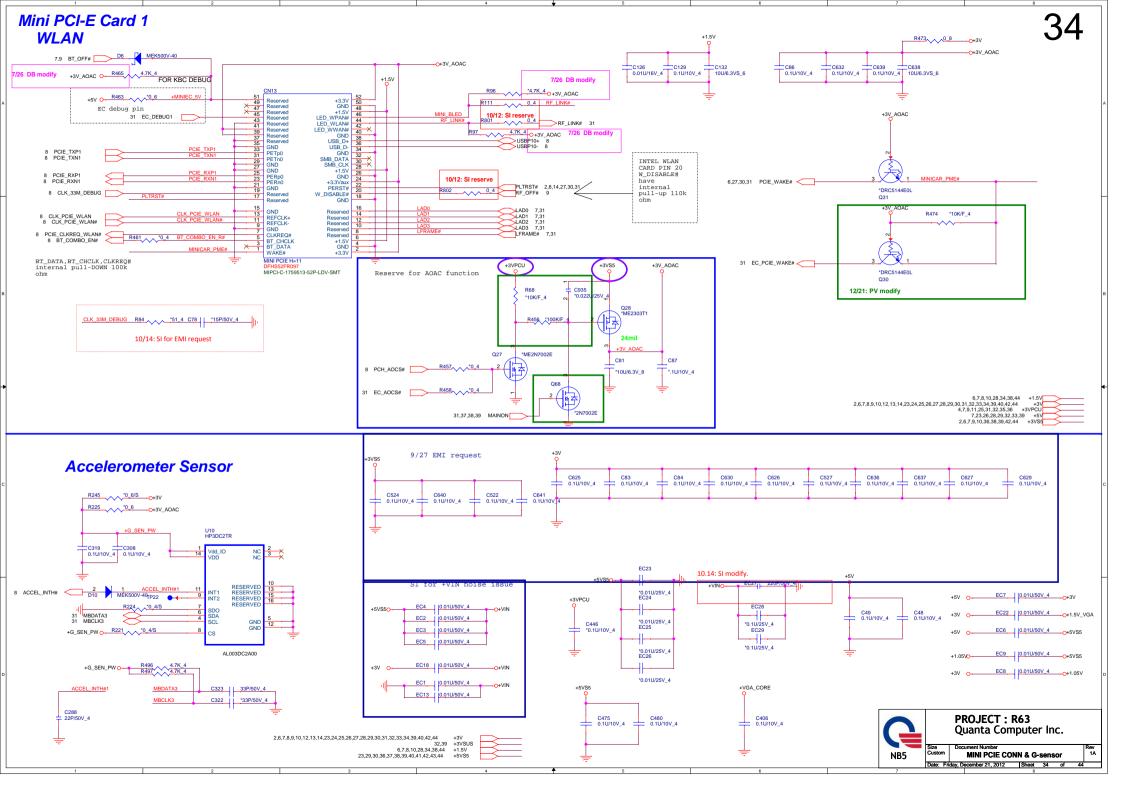
SATA ODD CONNECTOR

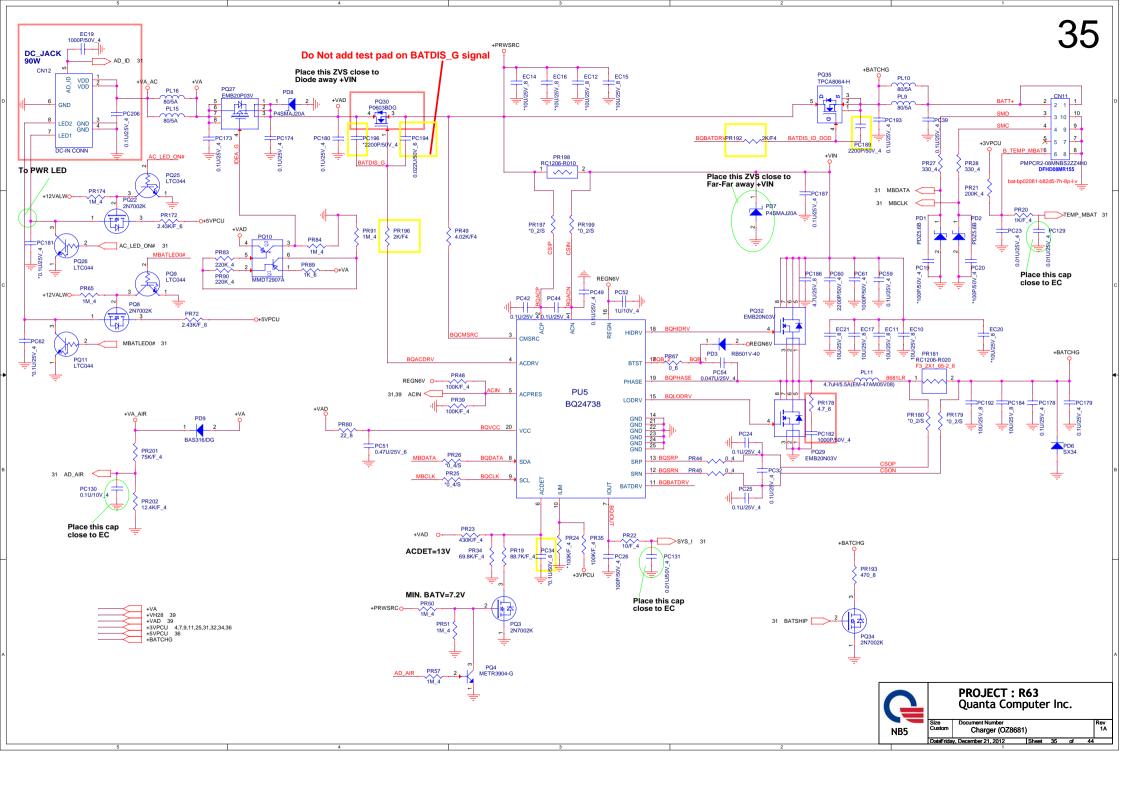


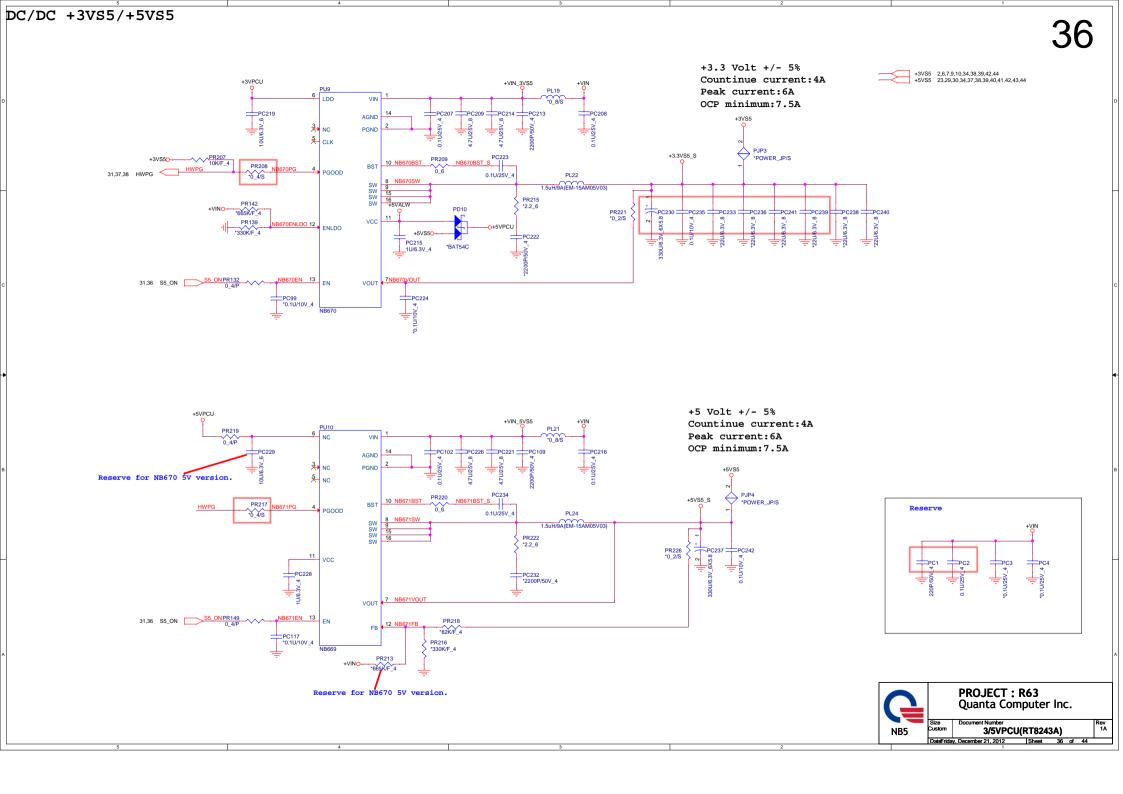


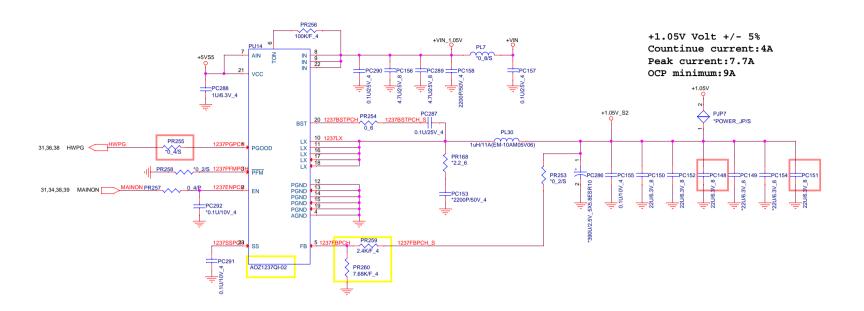




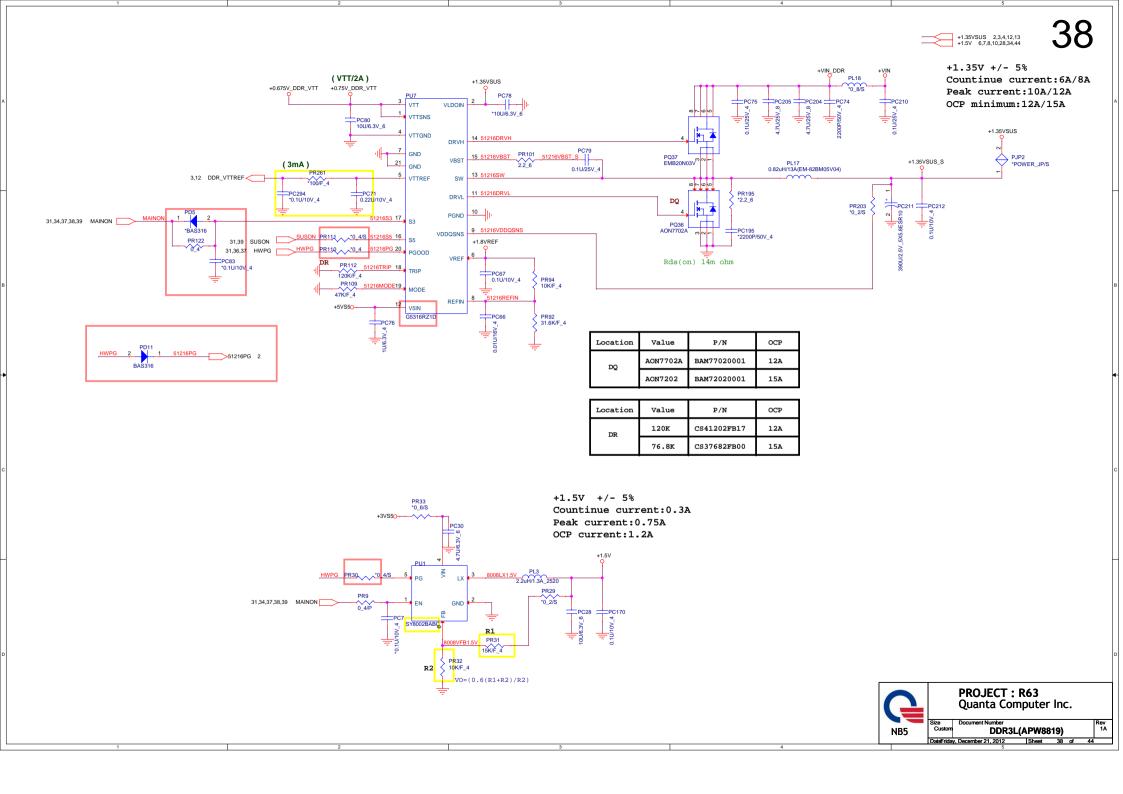


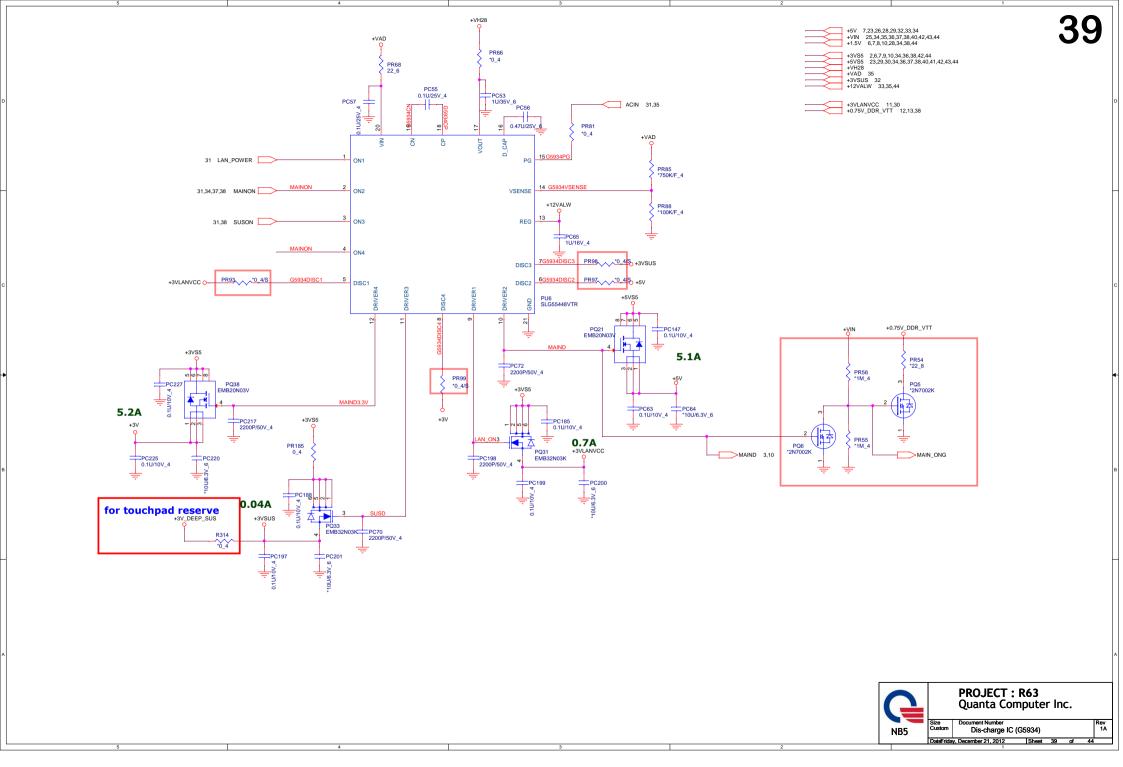


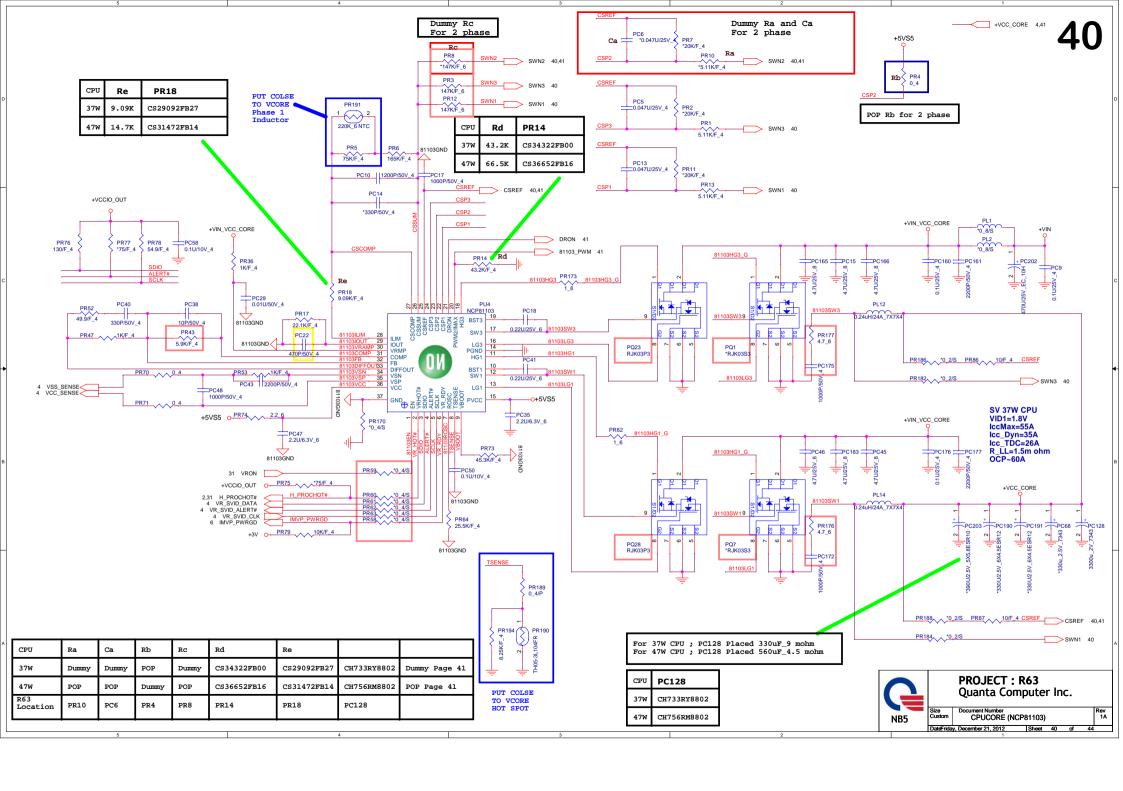


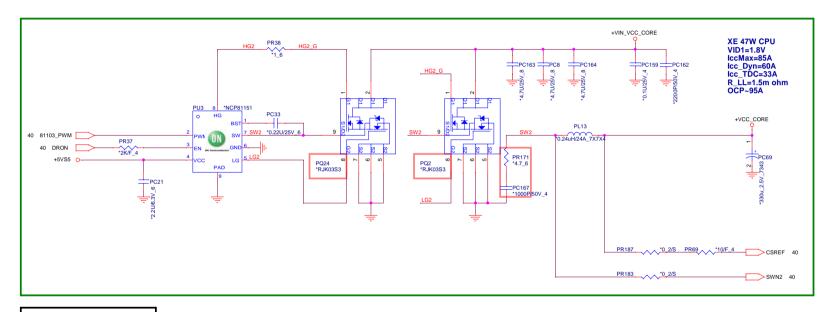




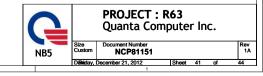








For 37W CPU Dummy these components



+VCC_CORE 4,40

