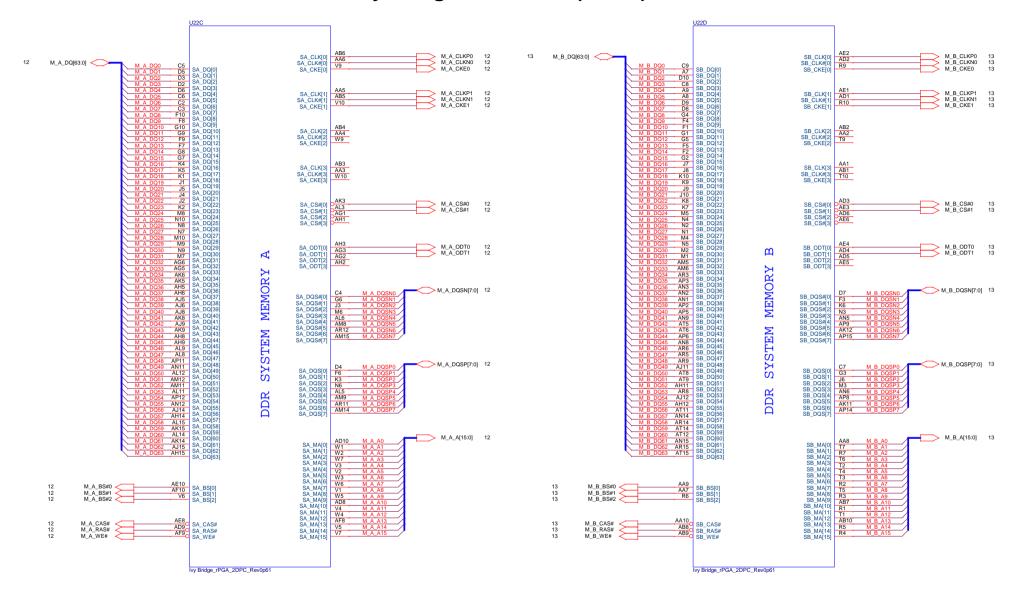
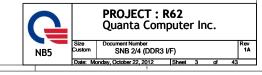
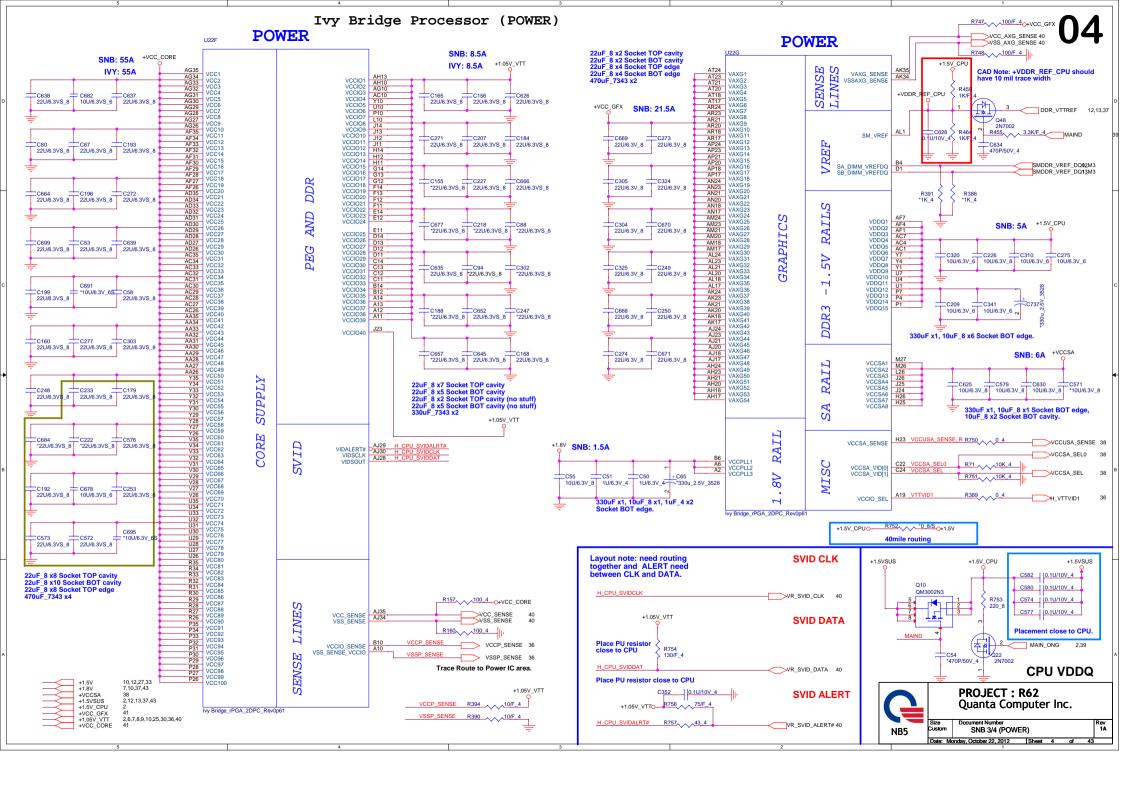
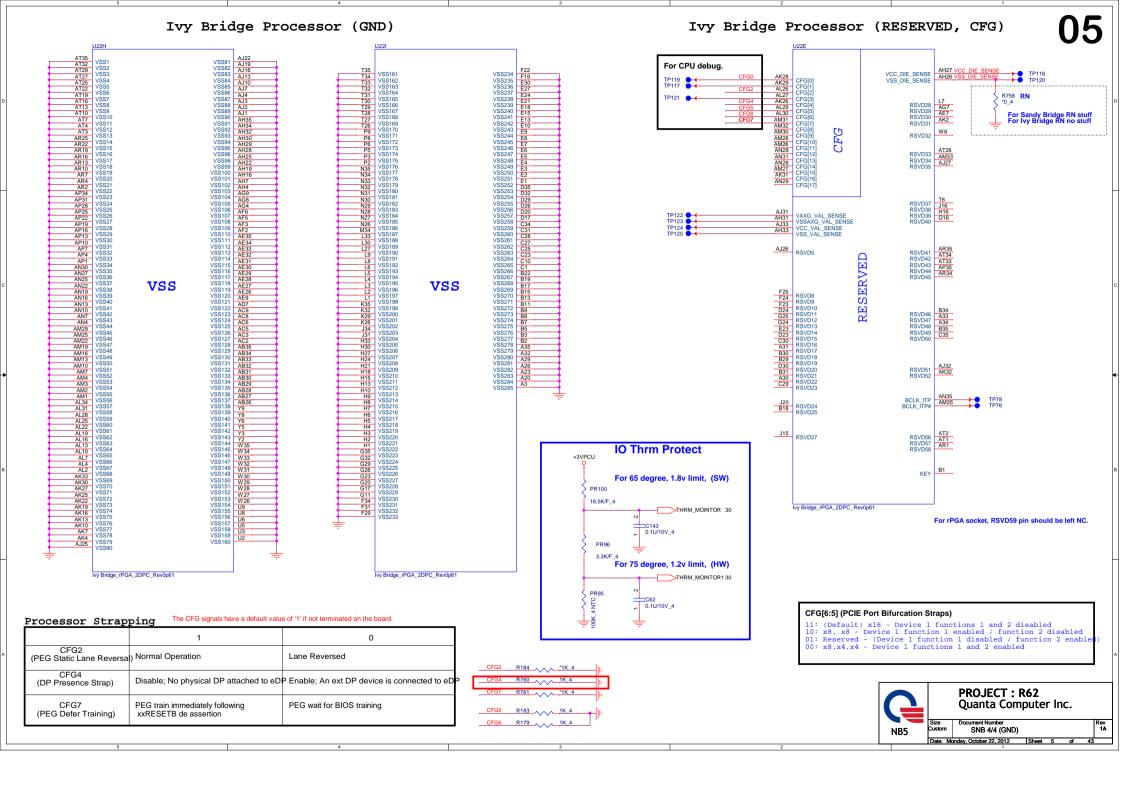


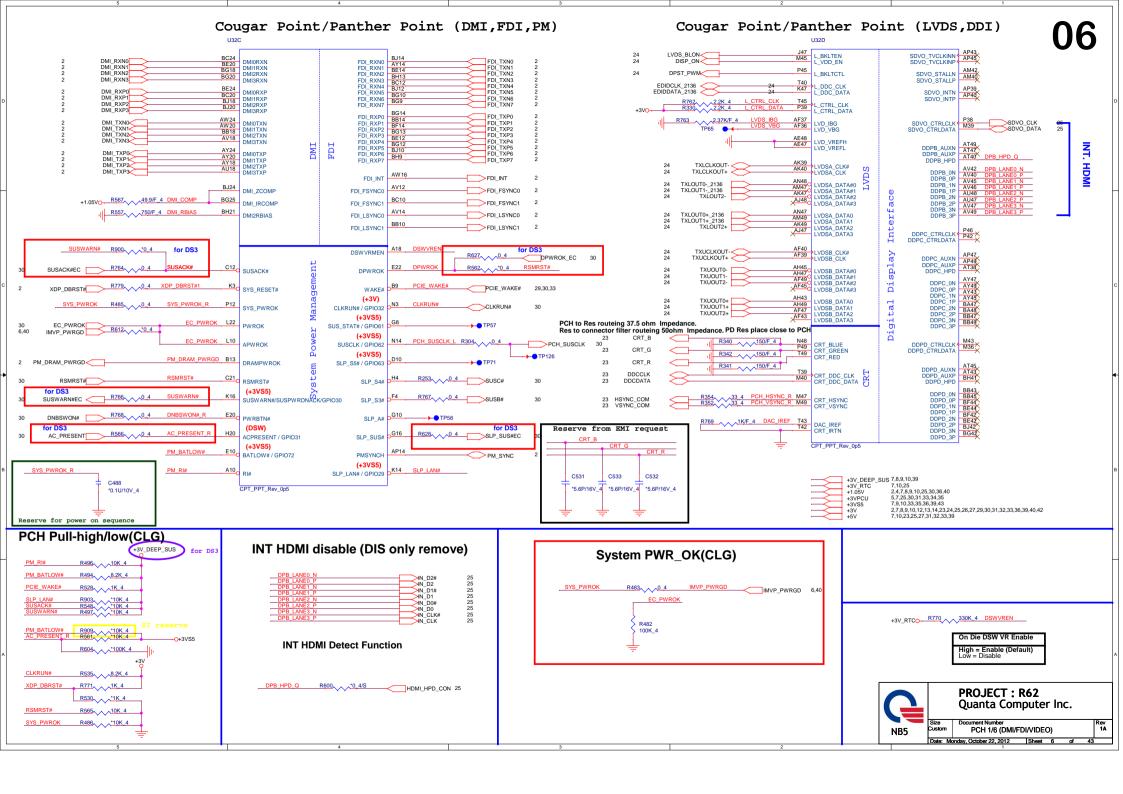
## **Ivy Bridge Processor (DDR3)**

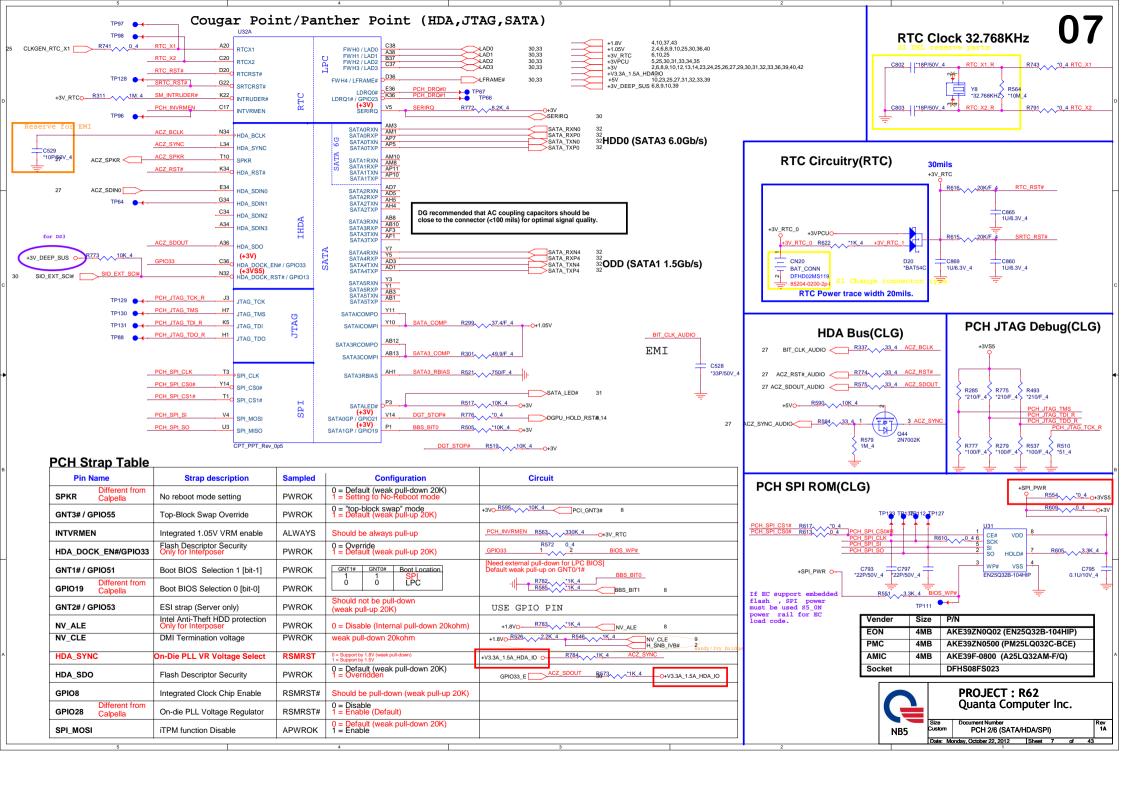


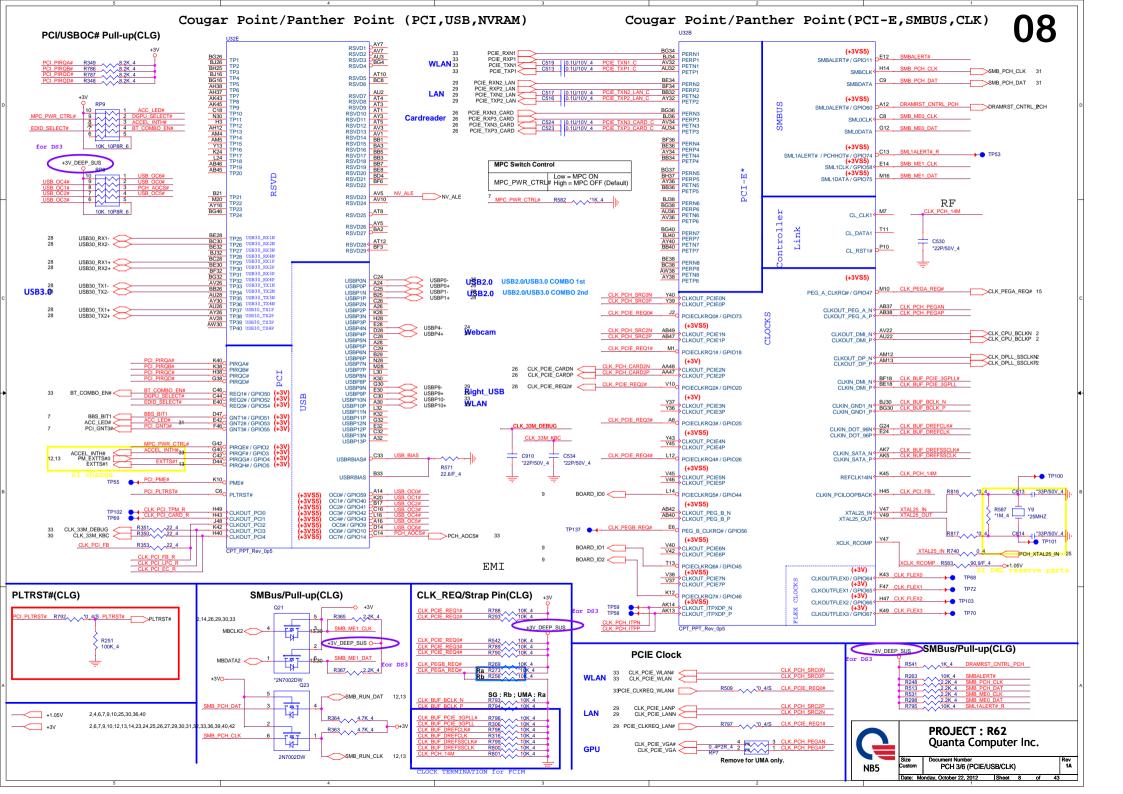


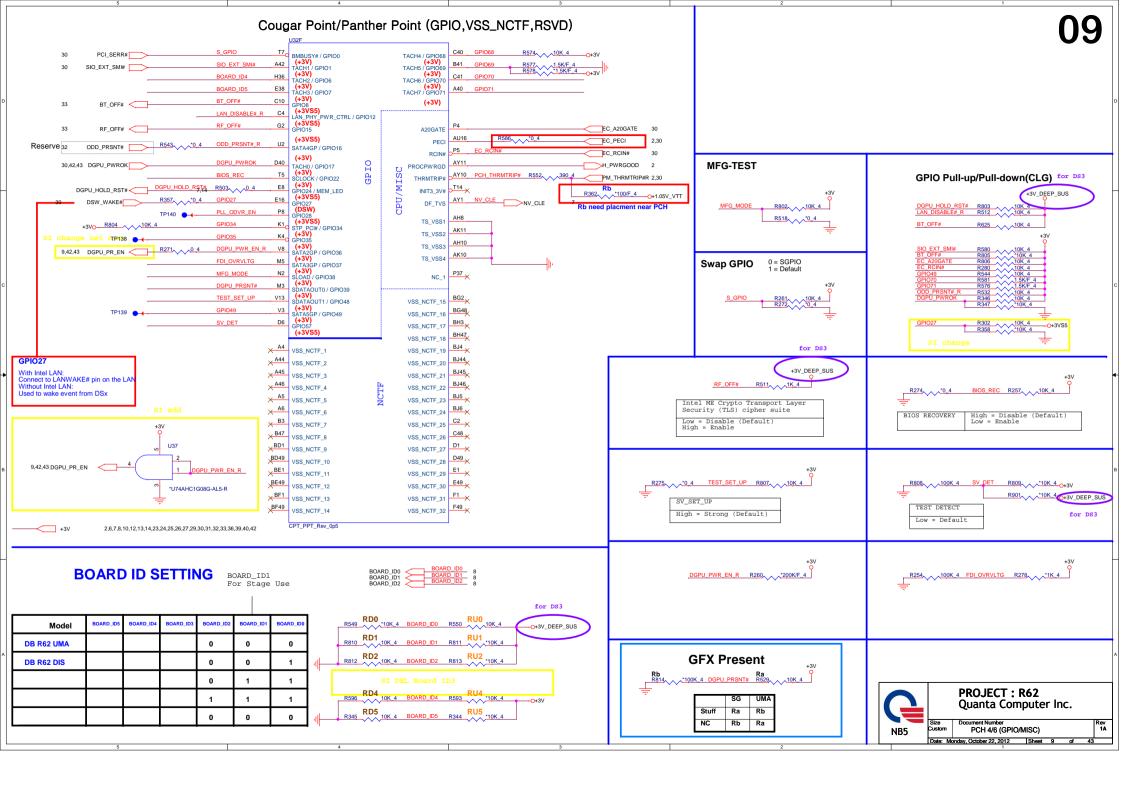


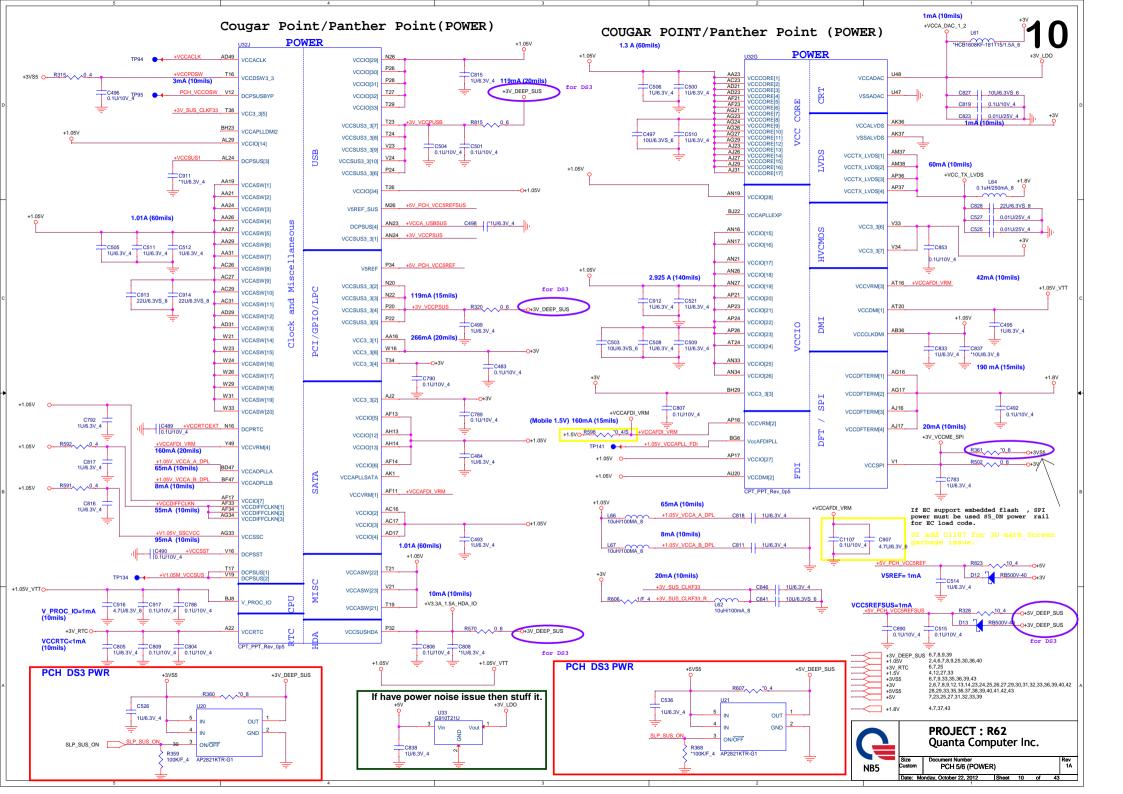


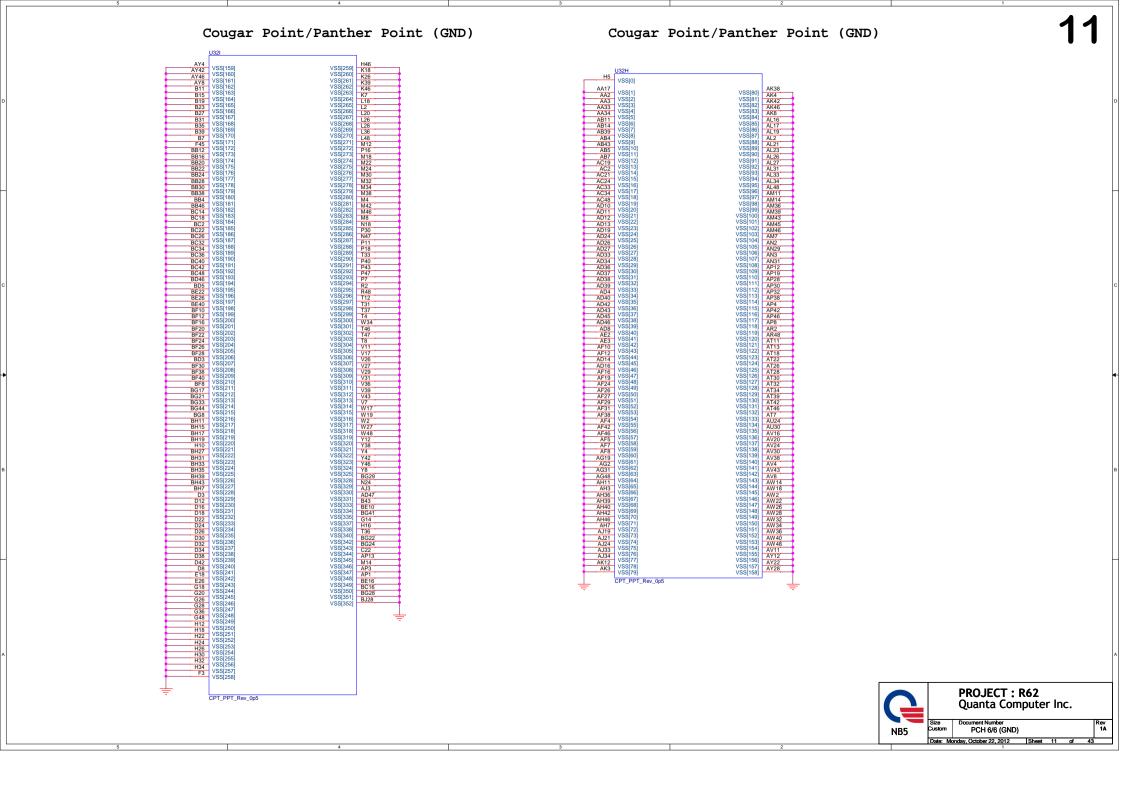


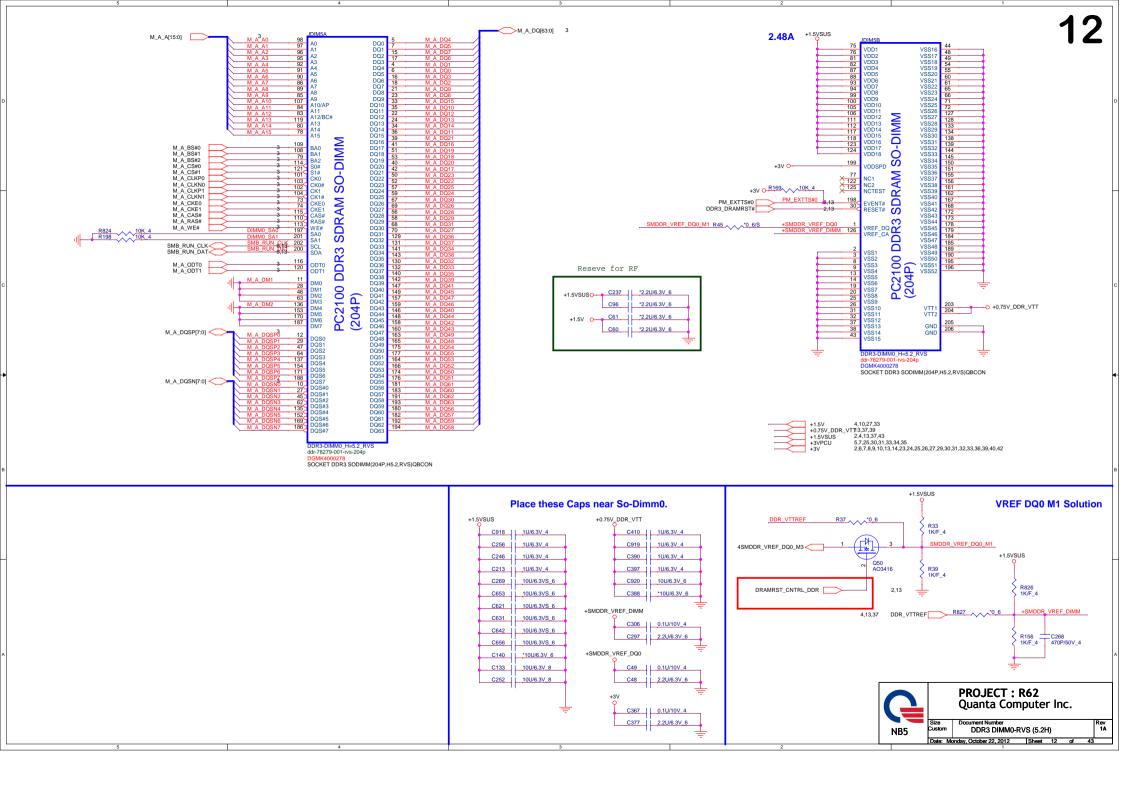


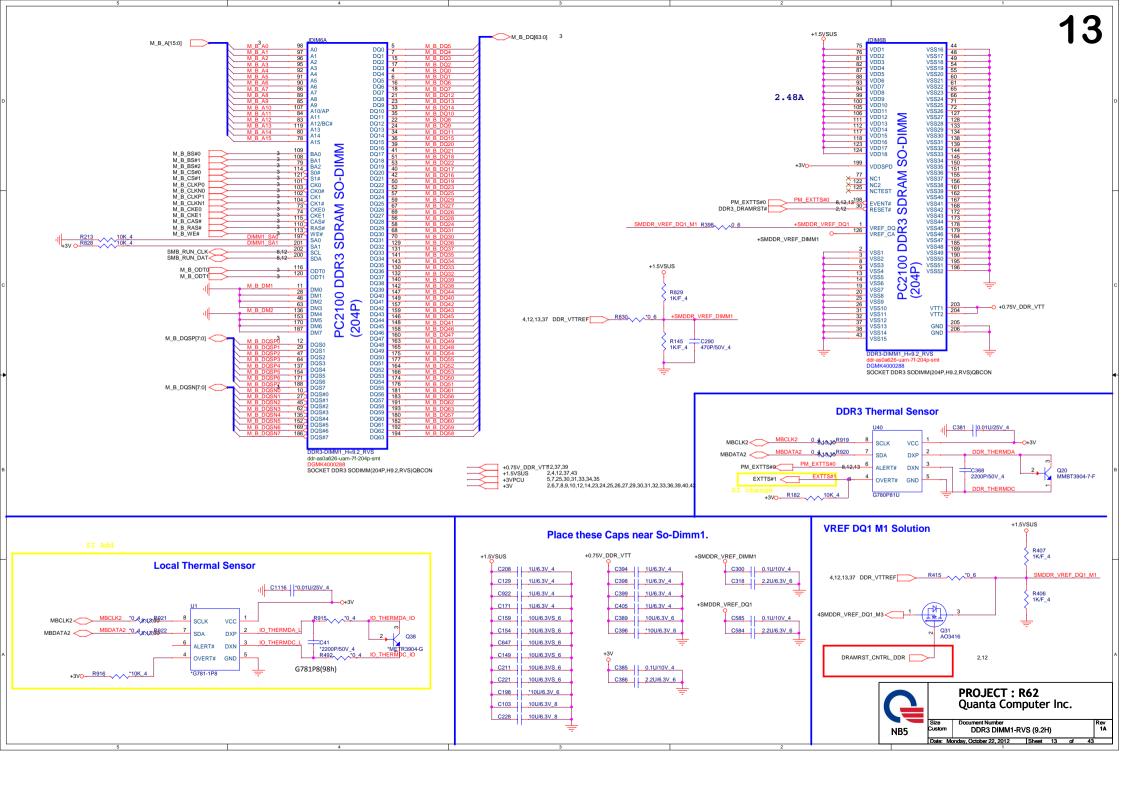


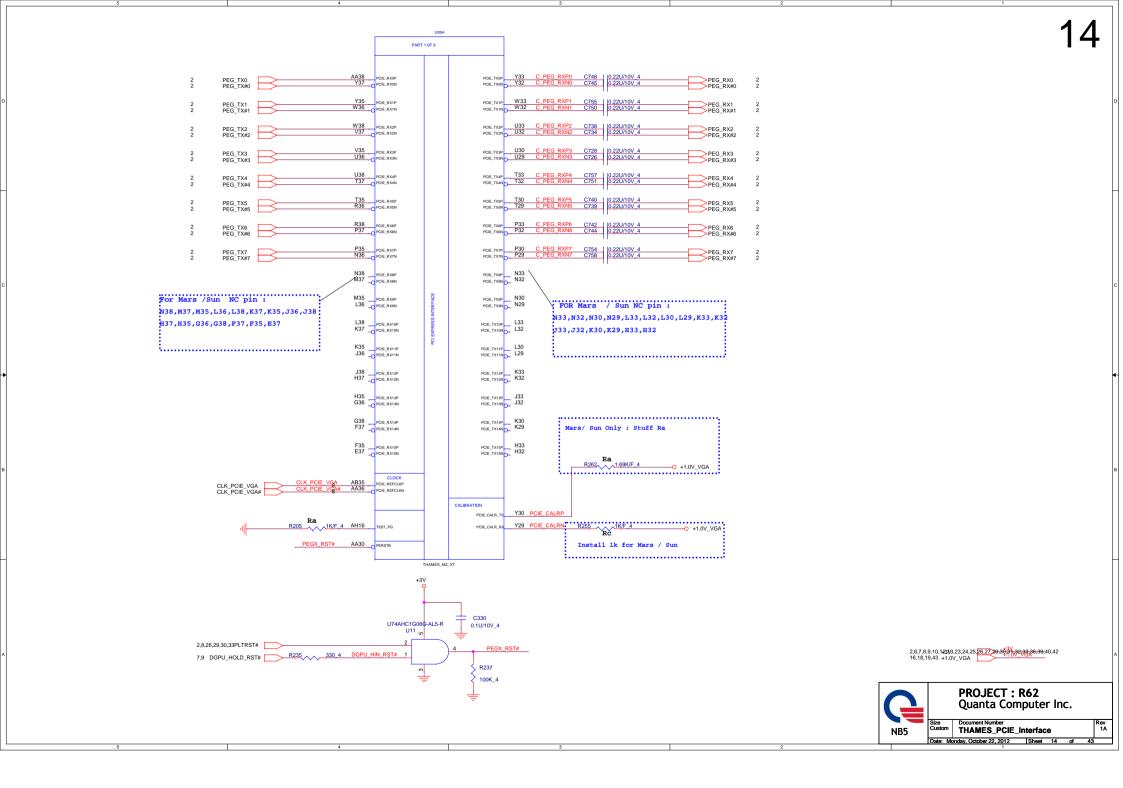


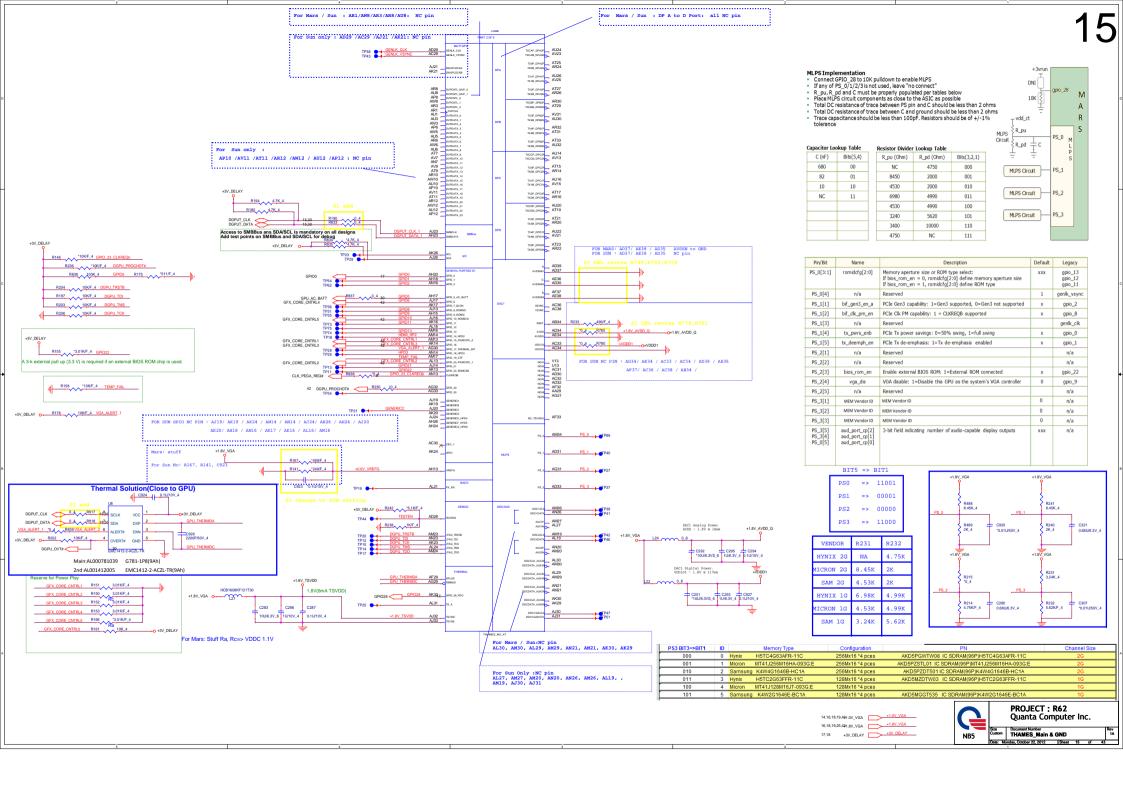


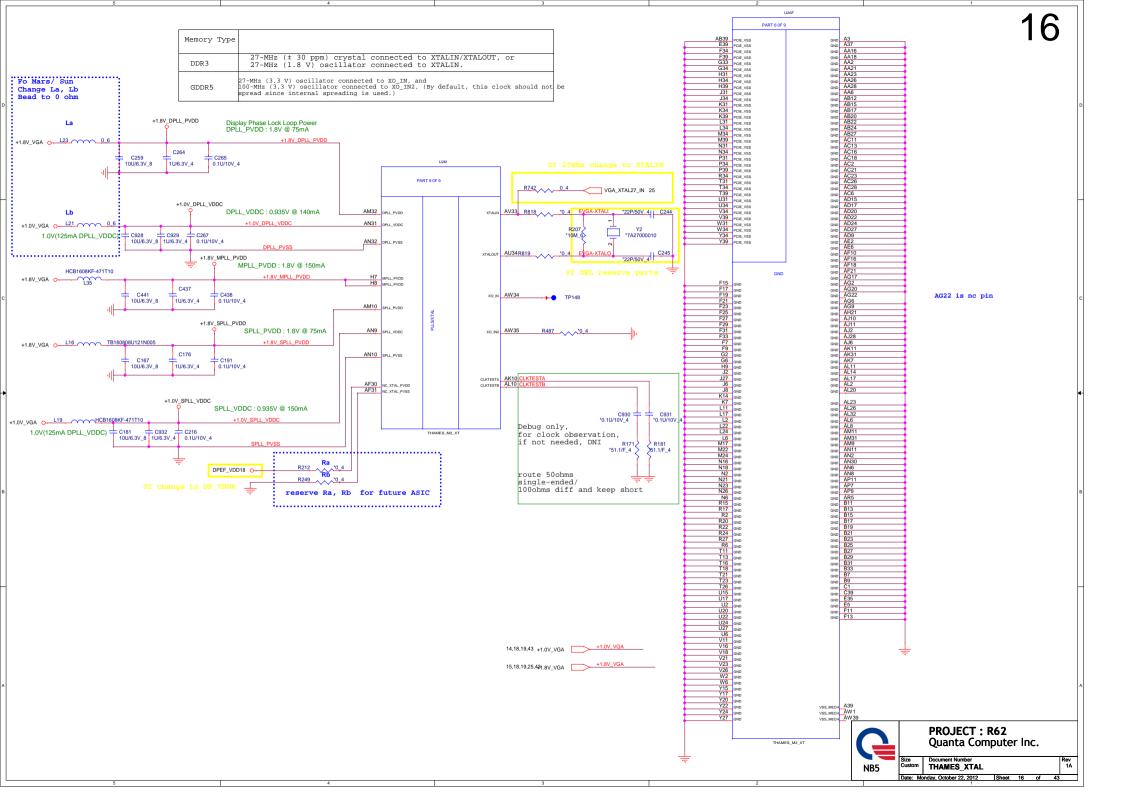




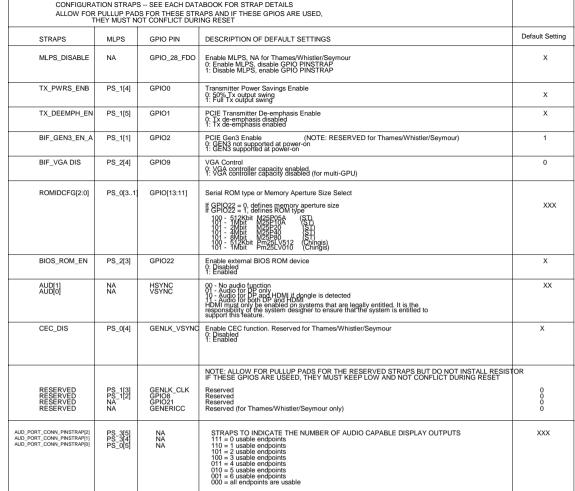












Thems : stuff Ra=> disable MLPS , support GPIO only
Mars : stuff Rb=> enable MLPS, support MLPS only

......

GPI00 15

#### **Memory Aperture size**

GPIO0

GPIO9		GPIO13	GPIO12	GPIO11	
BIOSROM		ROMIDCFG2	ROMIDCFG1	ROMIDCFG	+VGA CORE
0	128M	0	0	0	+VOA_OOKE
0	256M	0	0	1	+VGA_CORE
0	64M	0	1	0	
0	32M	0	1	1	+1.5V_VGA
0	512M	1	0	0	+3.3V Delay
0	1G	1	0	1	+3.3V_Delay
0	2G	1	1	0	+1.8V_VGA +1.8V_VGA
0	4G	1	1	1	+1.8V_VGA

Fo Mars : AF35, AG36: NC pin

Fo Sun Only : All NC pin

+3V\_DELAY

VARY\_BL AK27

TXCLK\_UP\_DPF3P AK35
TXCLK\_UN\_DPF3N AL36

TXOUT\_U0P\_DPF2P AJ38
TXOUT\_U0N\_DPF2N AK37

TXOUT\_U1P\_DPF1P AH35
TXOUT\_U1N\_DPF1N AJ36
TXOUT\_U2P\_DPF0P AG38
TXOUT\_U2N\_DPF0N AH37

TXOUT\_U3P AF35
TXOUT\_U3N AG36

TXCLK\_LP\_DPE3P AP34
TXCLK\_LN\_DPE3N AR34

TXOUT\_LOP\_DPE2P AW37
TXOUT\_LON\_DPE2N AU35

TXOUT\_L1P\_DPE1P AR37
TXOUT\_L1N\_DPE1N AU39

TXOUT\_L2P\_DPE0P AP35
TXOUT\_L2N\_DPE0N AR35

TXOUT\_L3P AN36

R133 \*10K\_4

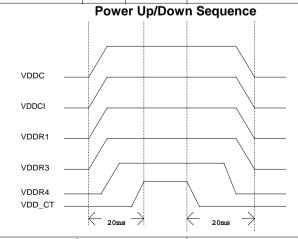
Ra R216 \_\_\_\_\_\_\*10K\_4

Rb R840 10K\_4

тхонт намо АРЗ7

LUDE CONTRO

It is a shared pin strap with CONFIG[2:0] if BIOS\_ROM\_EN is set to 0.

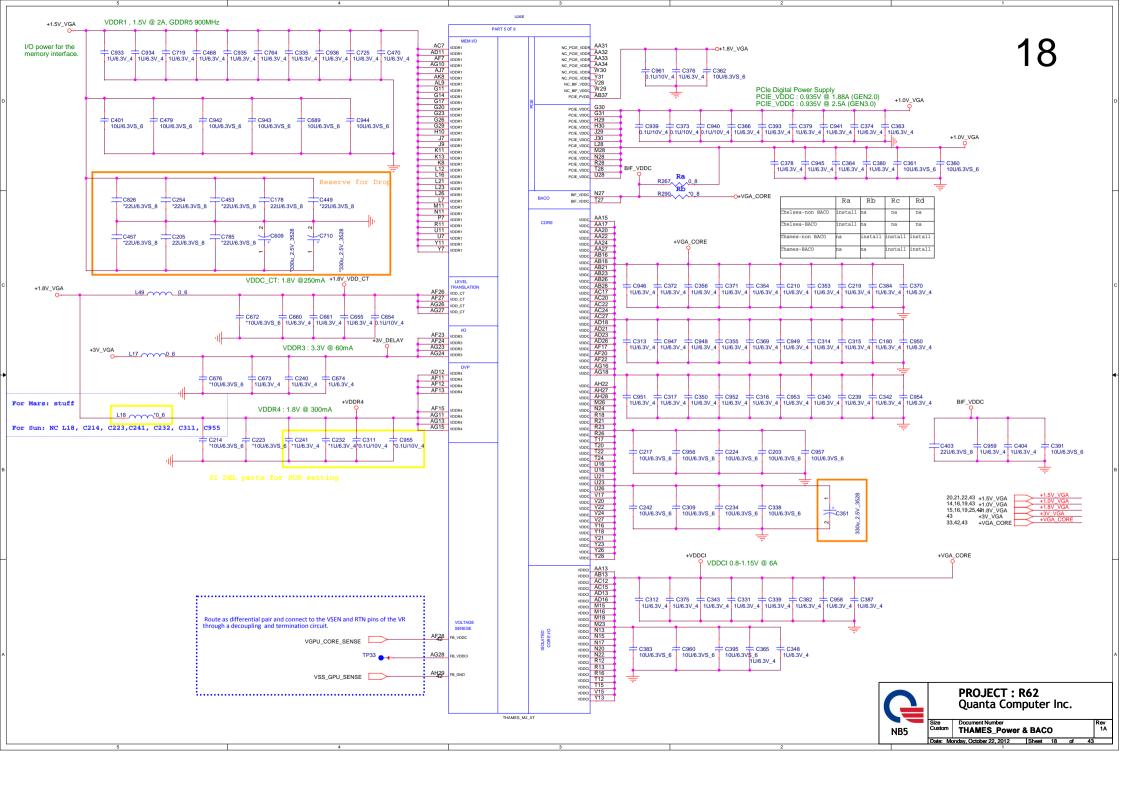


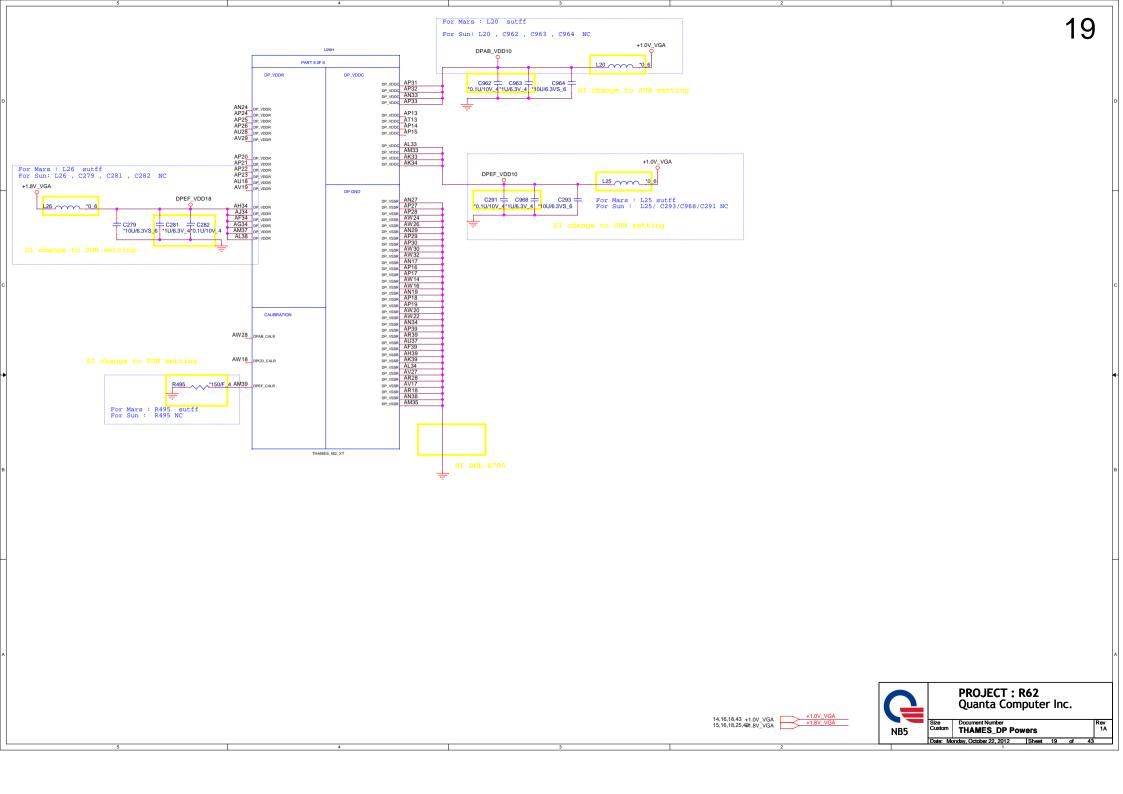


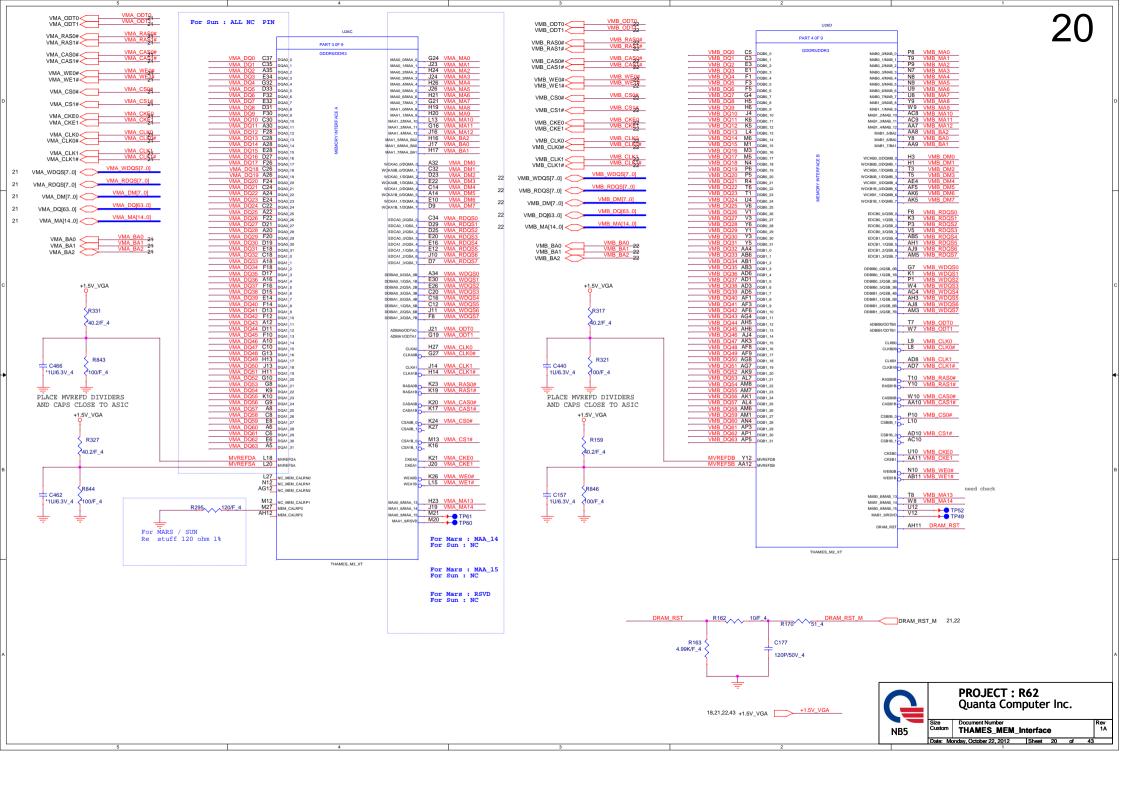
PROJECT: R62 Quanta Computer Inc.

Size Document Number
THAMES\_LVDS / STRAP

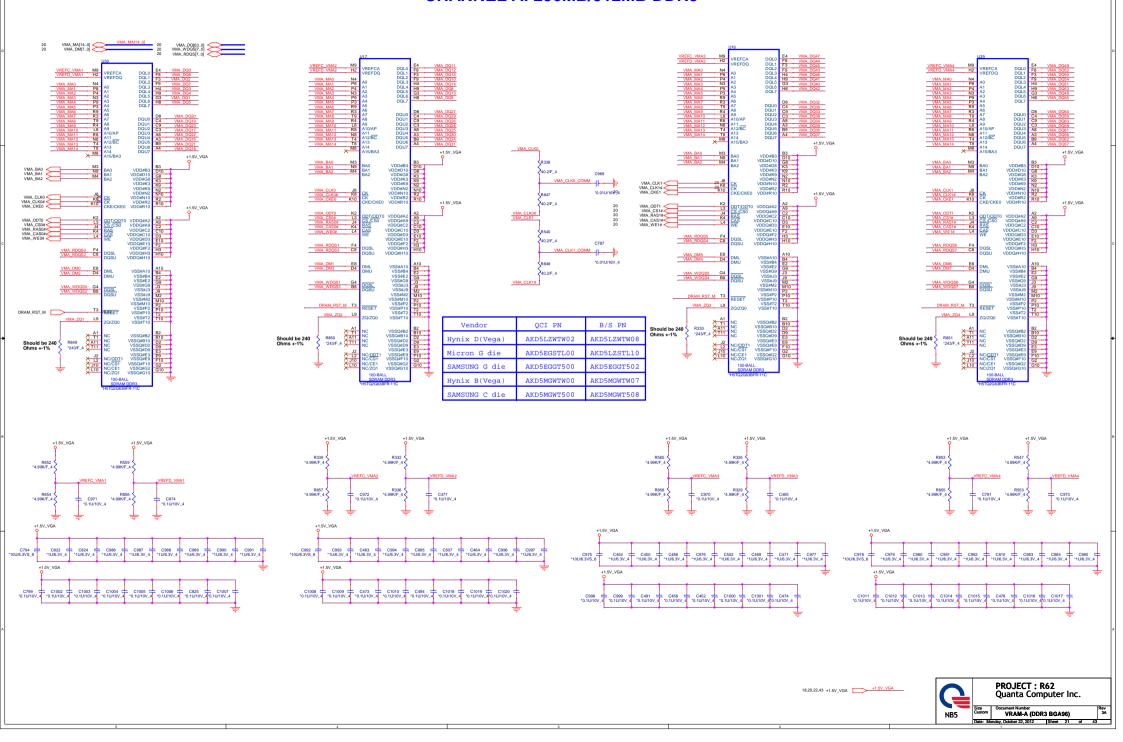
Date: Monday, October 22, 2012 | Sheet 17 of 4



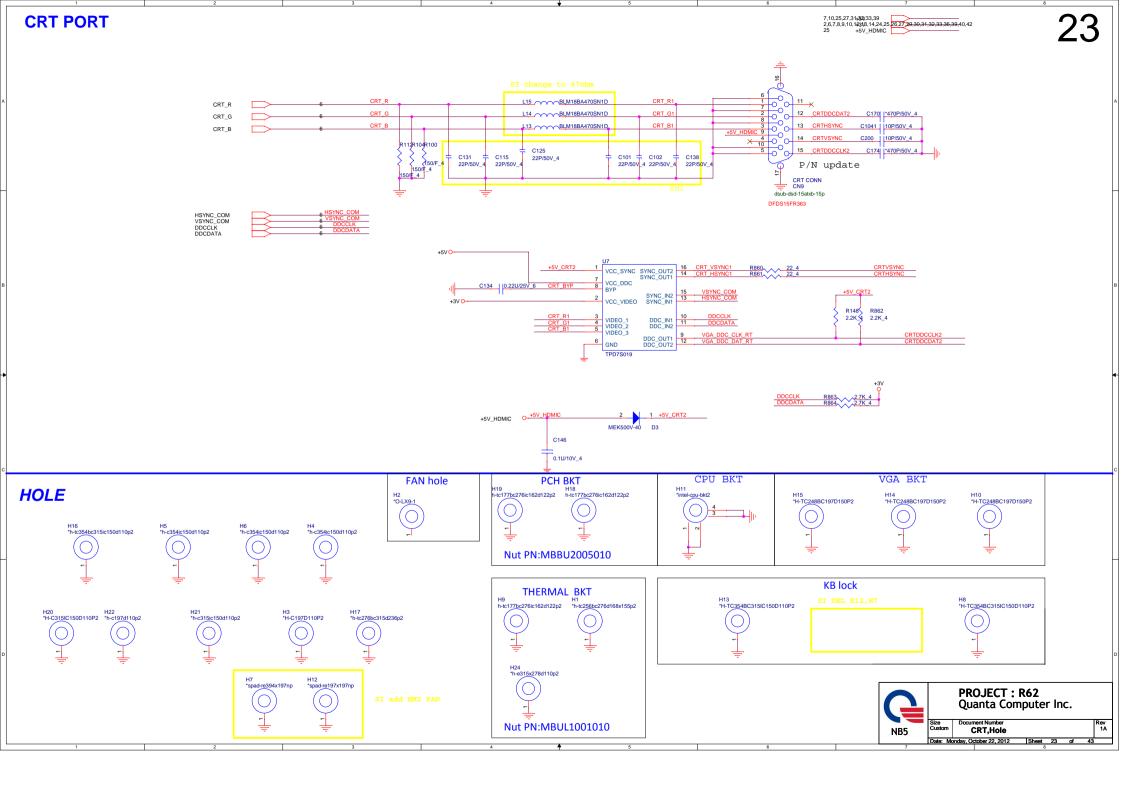


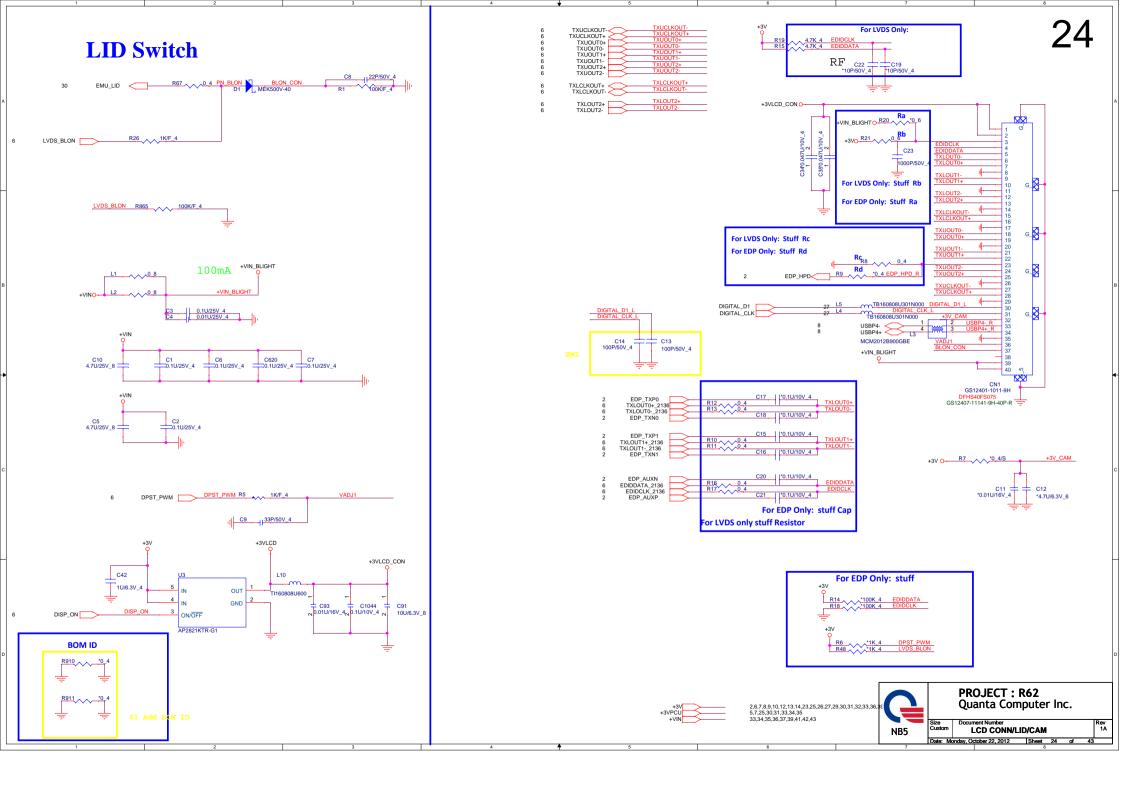


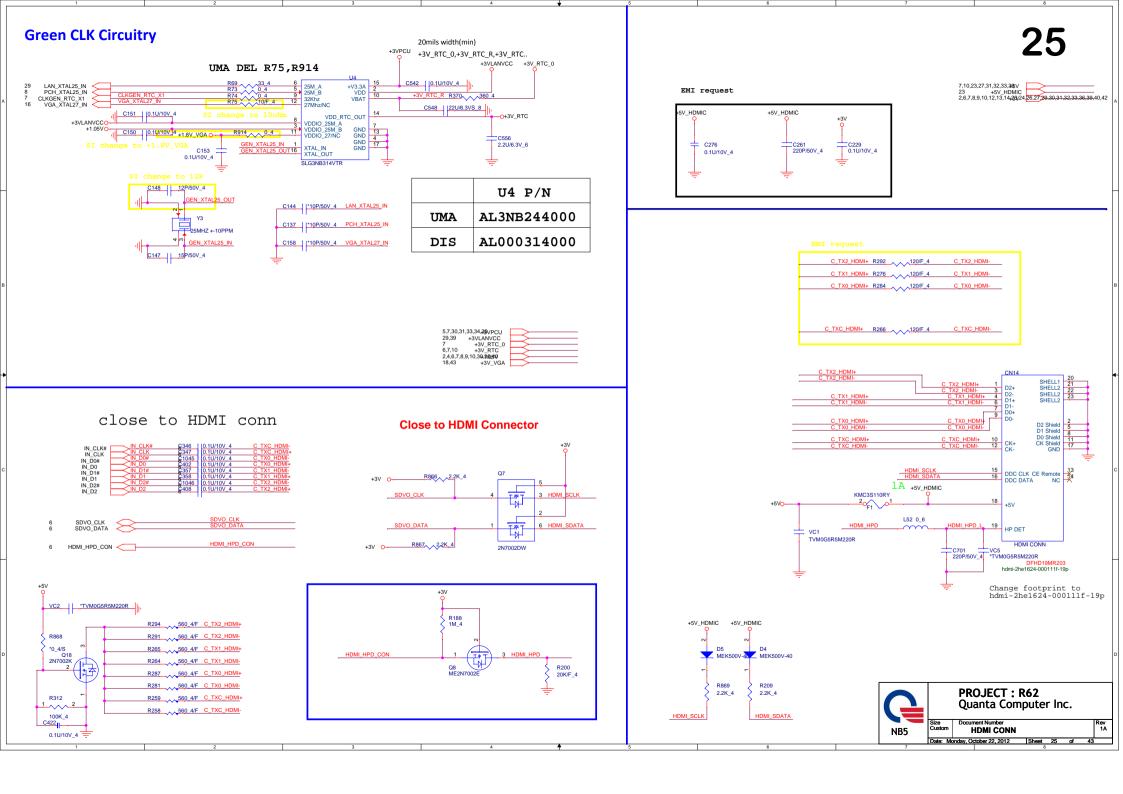
### CHANNEL A: 256MB/512MB DDR3

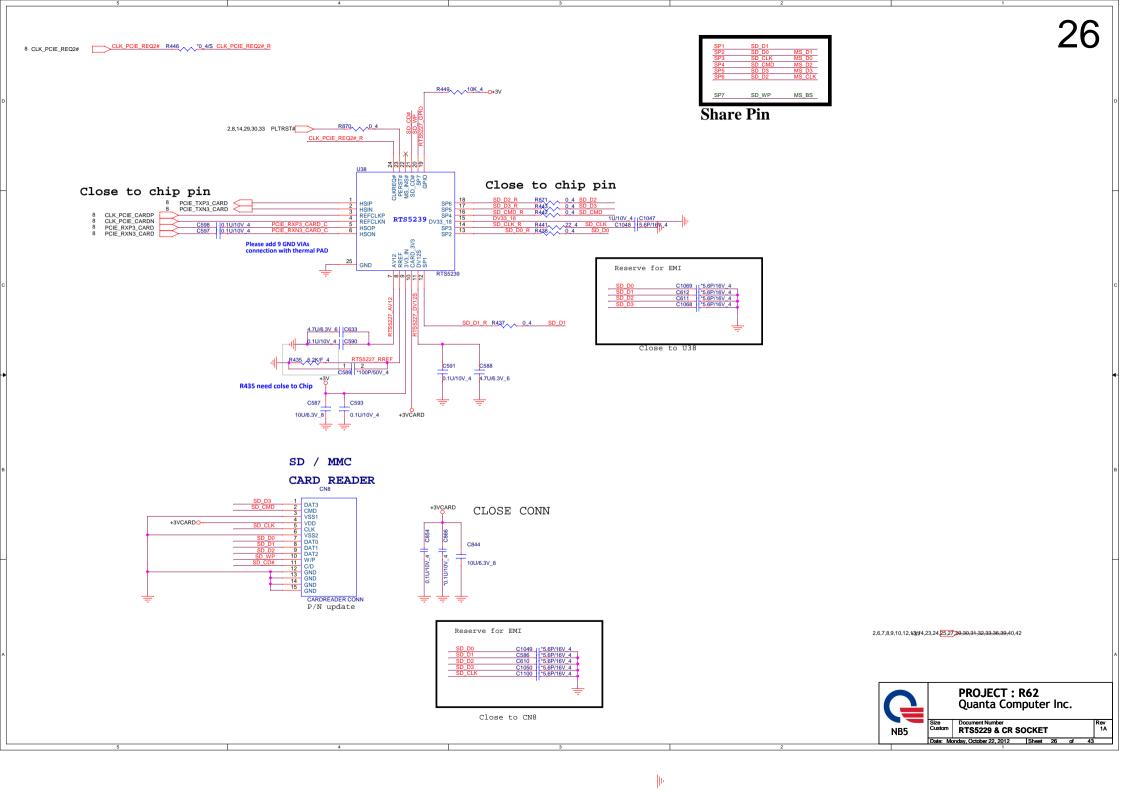


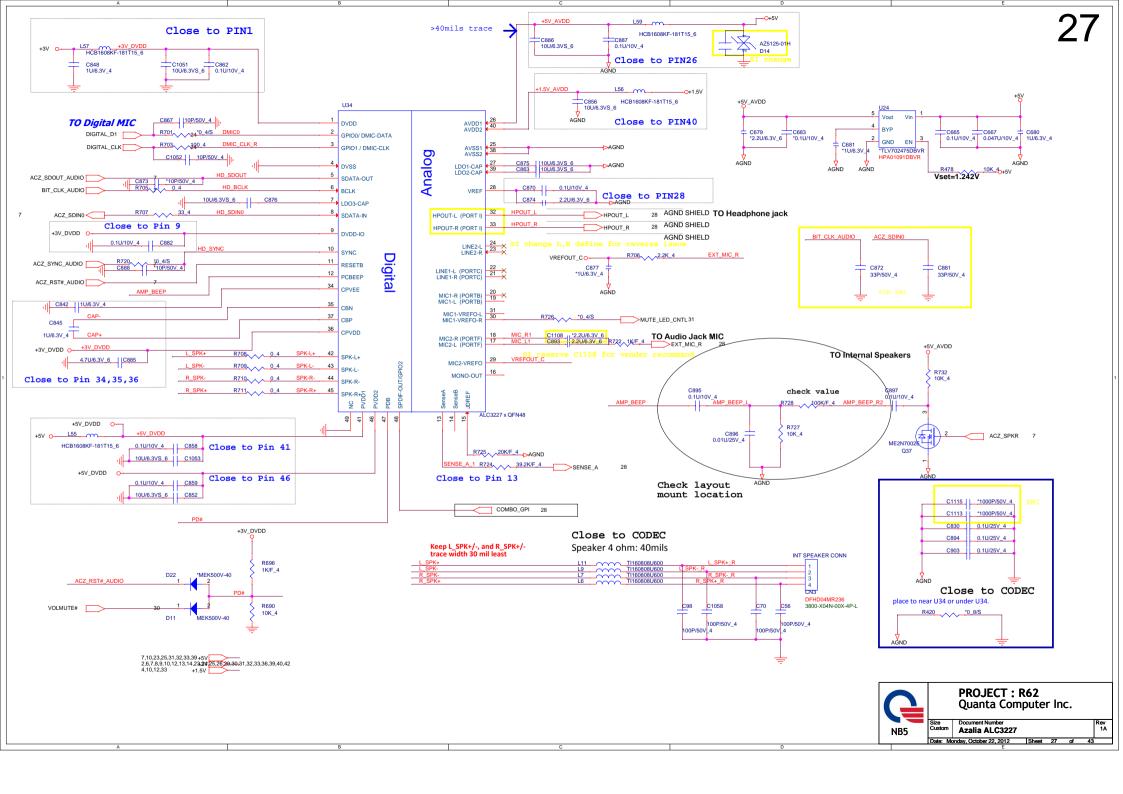
# **CHANNEL B: 256MB/512MB DDR3** 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 20,22 VDDQ#AZ VDDQ#AZ VDDQ#C VDDQ#C VDDQ#E VDDQ#E VDDQ# VDDQ# 0.01U/16V 4 C1021 MB\_CLK1\_COMM DRAM RST M 0.01U/16V 4 DRAM\_RST\_M Should be 240 Ohms +-1% Should be 240 Ohms +-1% R140 243/F\_4 VMB\_CLK1# R506 243/F\_4 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 : R62 Quanta Computer Inc. VRAM-B (DDR3 BGA96) NB5

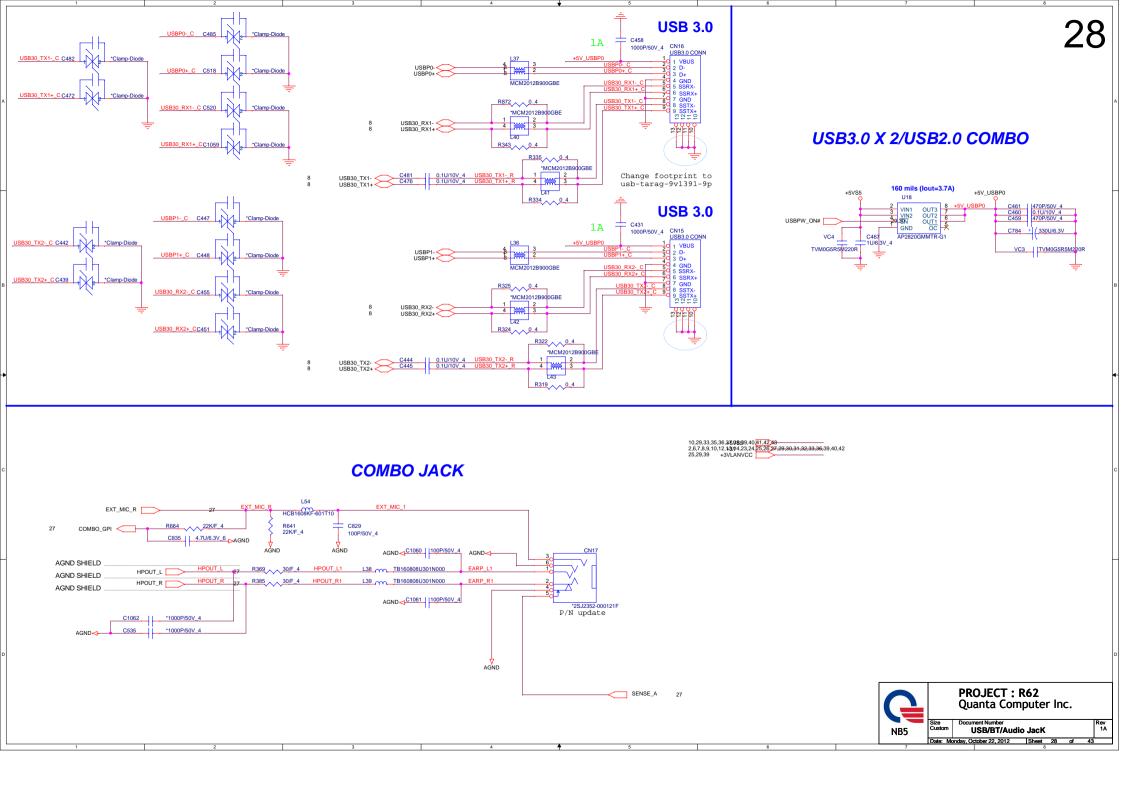


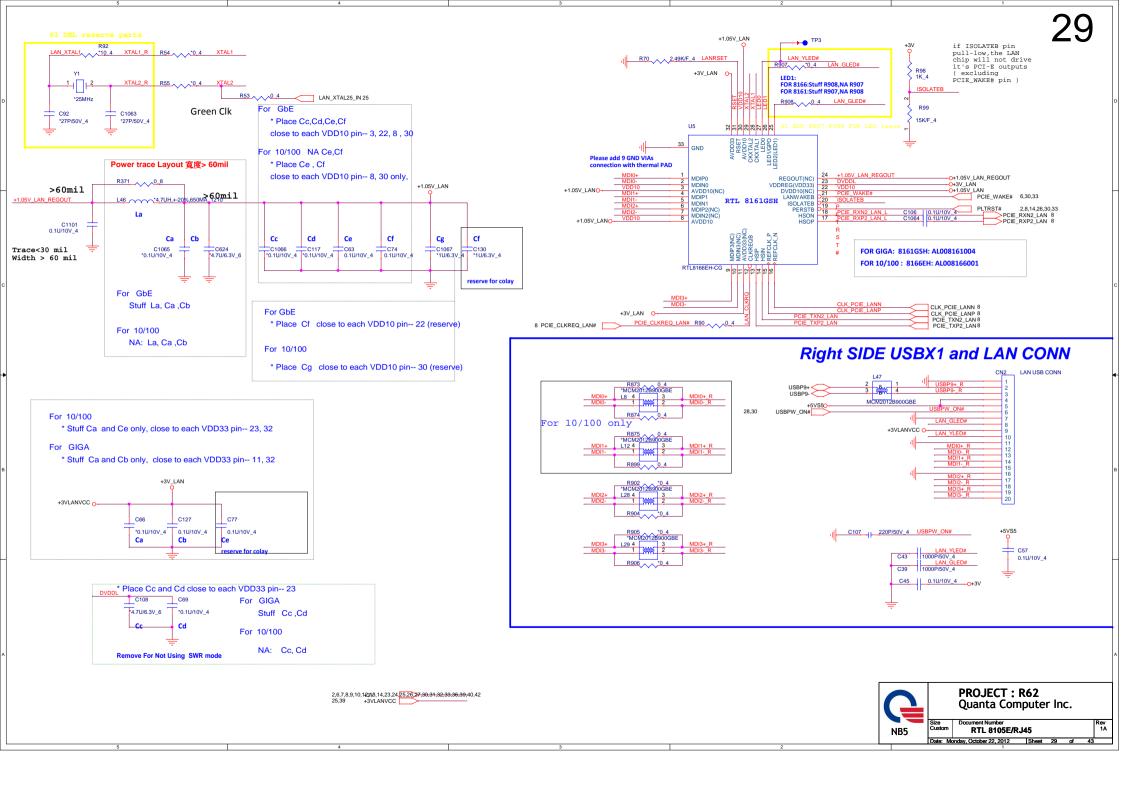


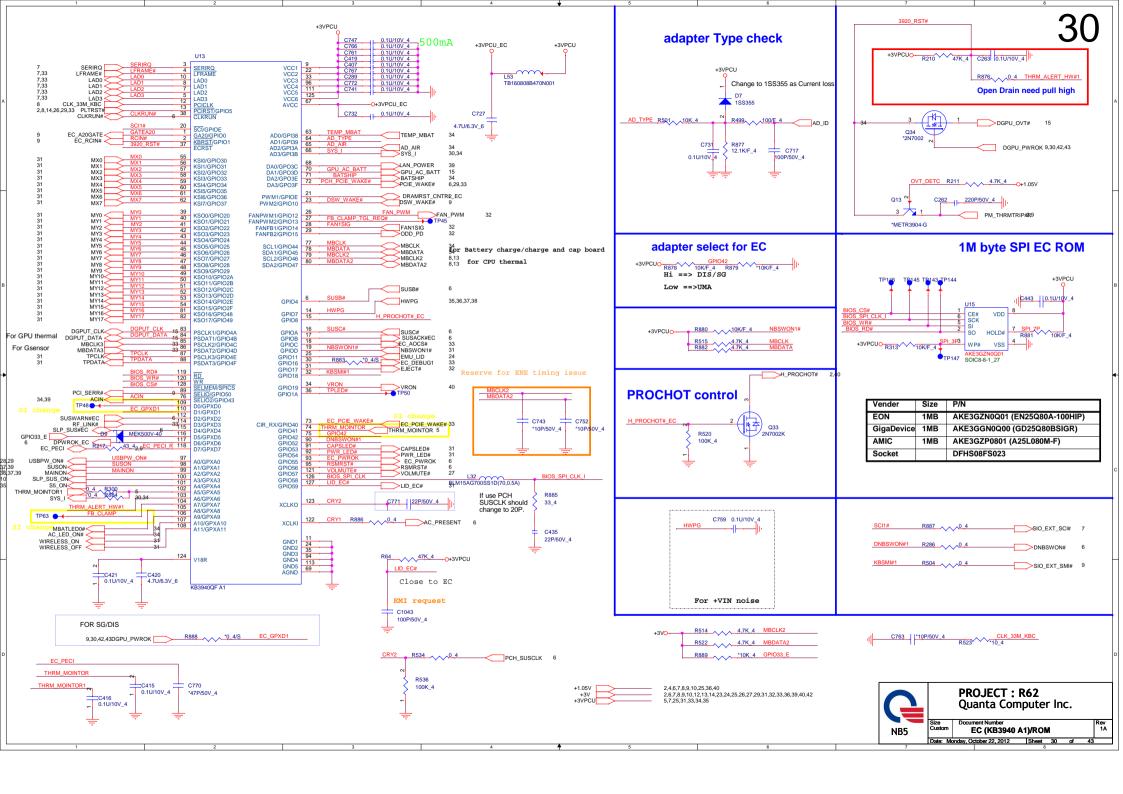


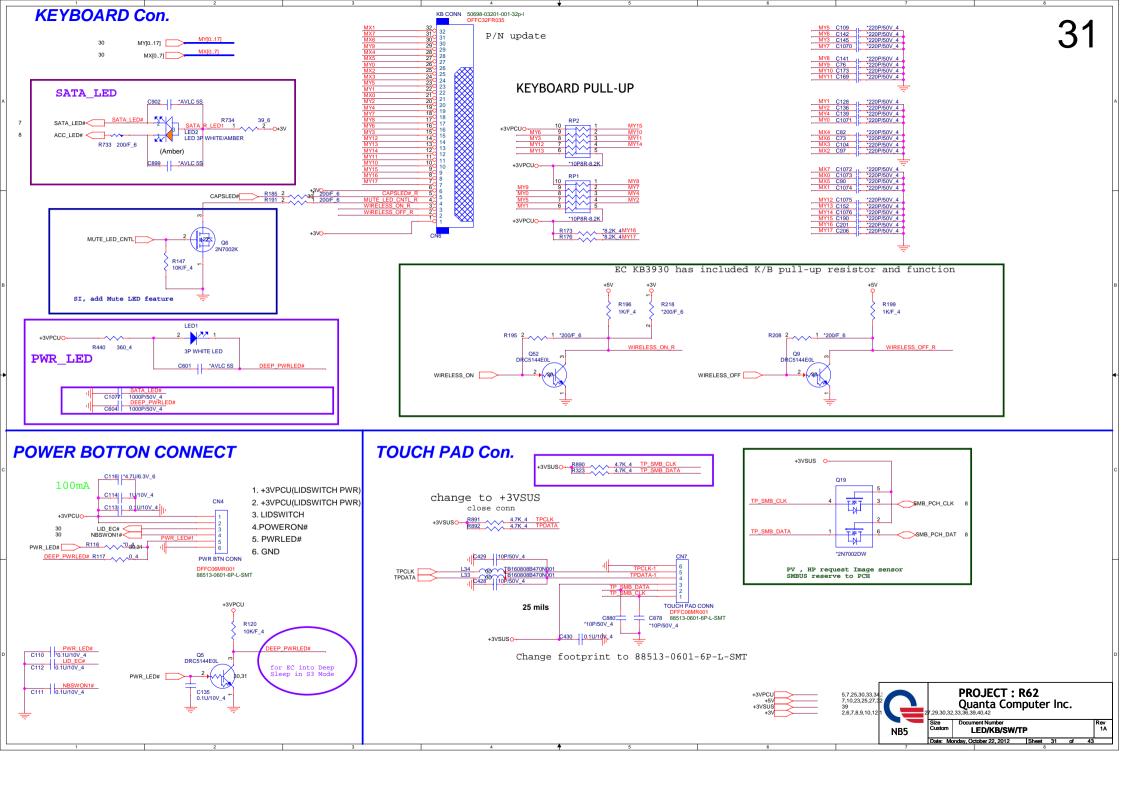


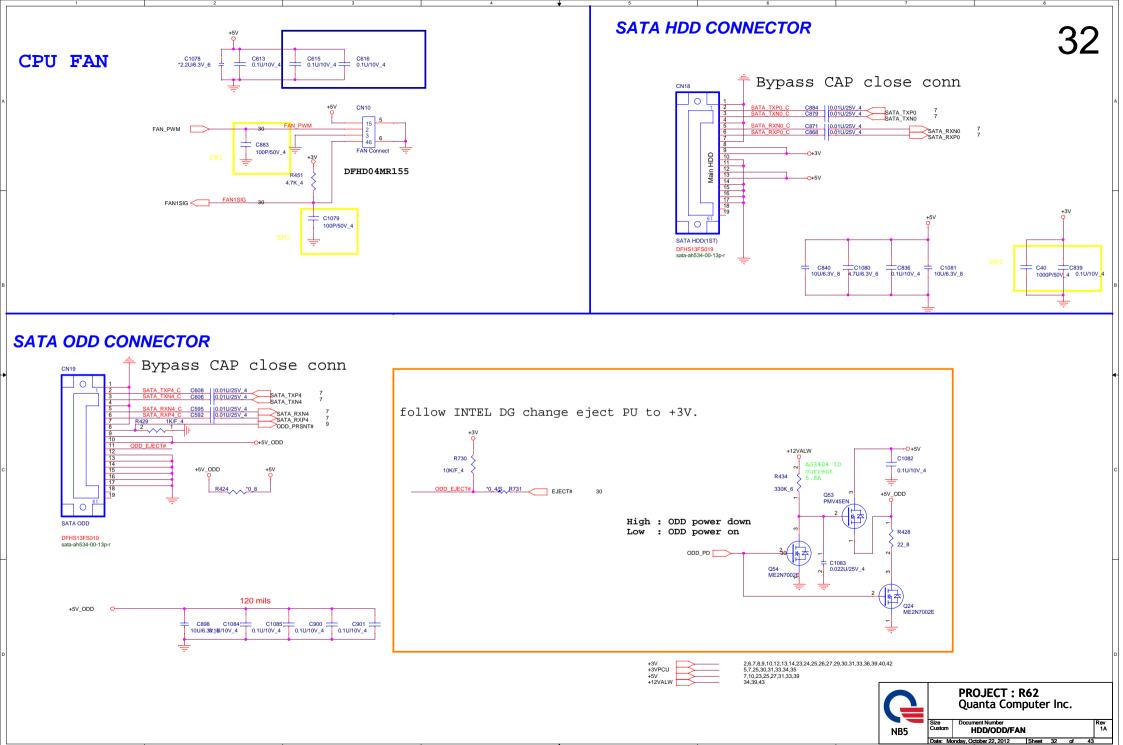


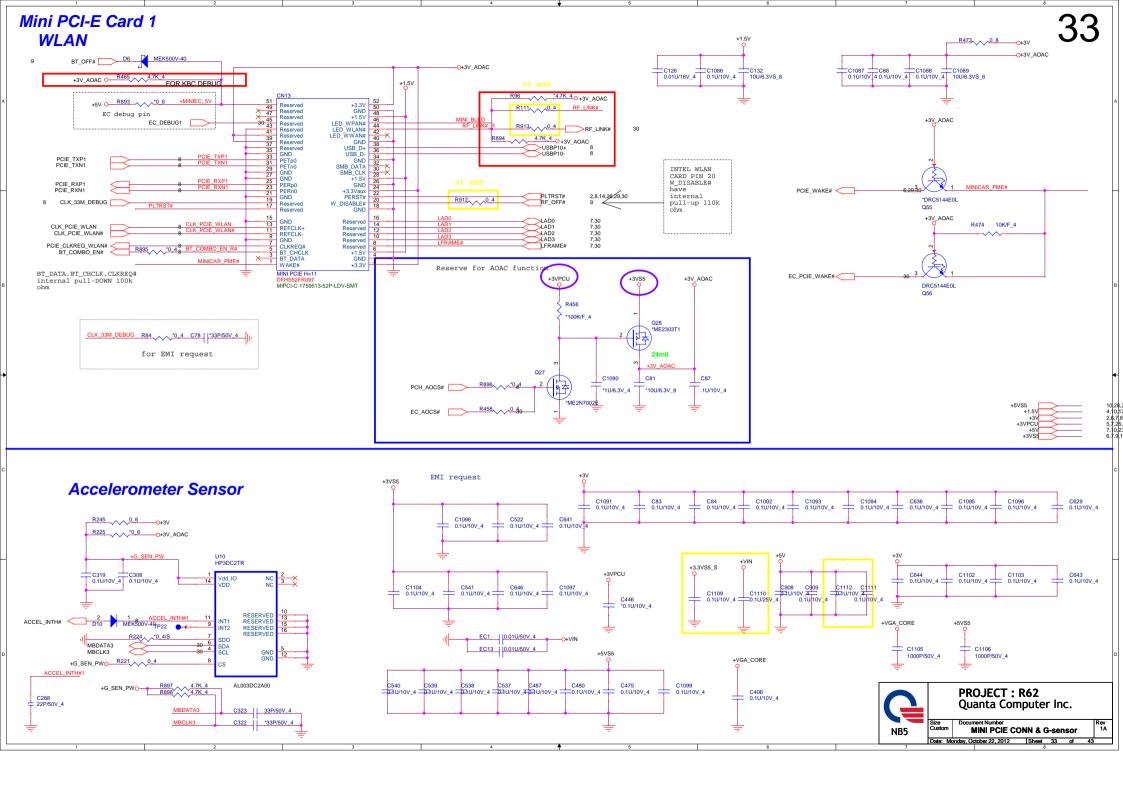


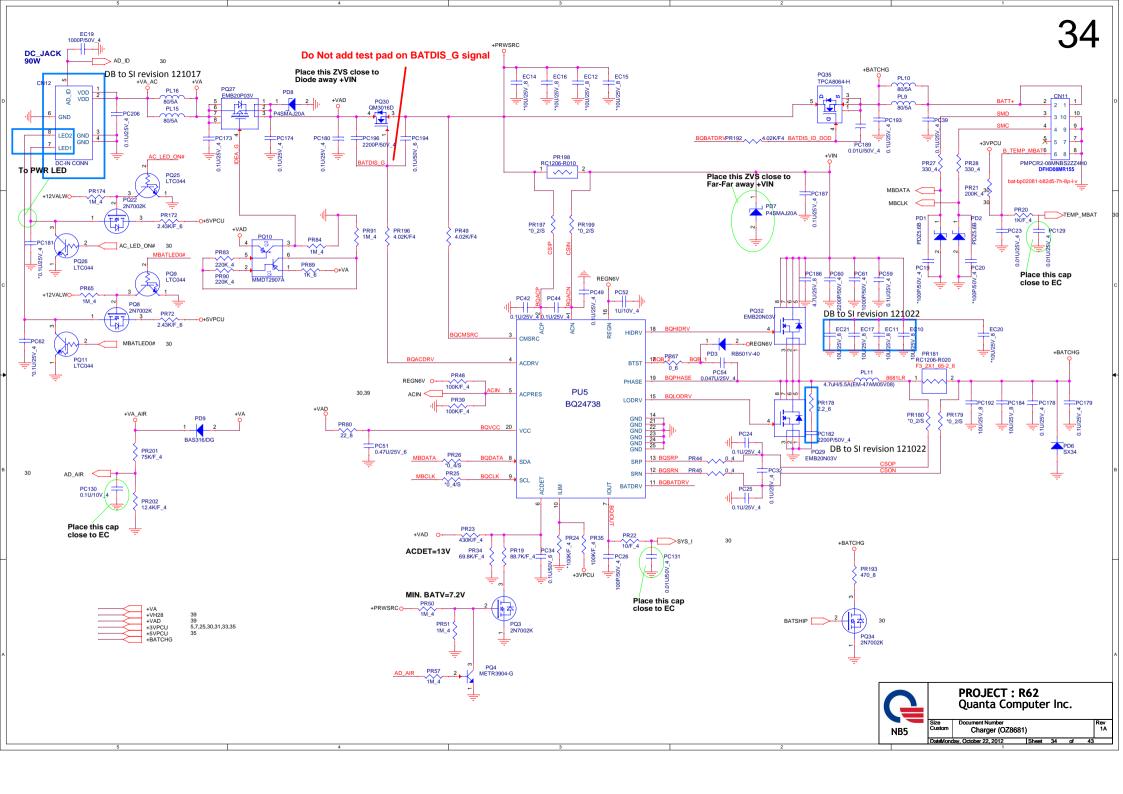


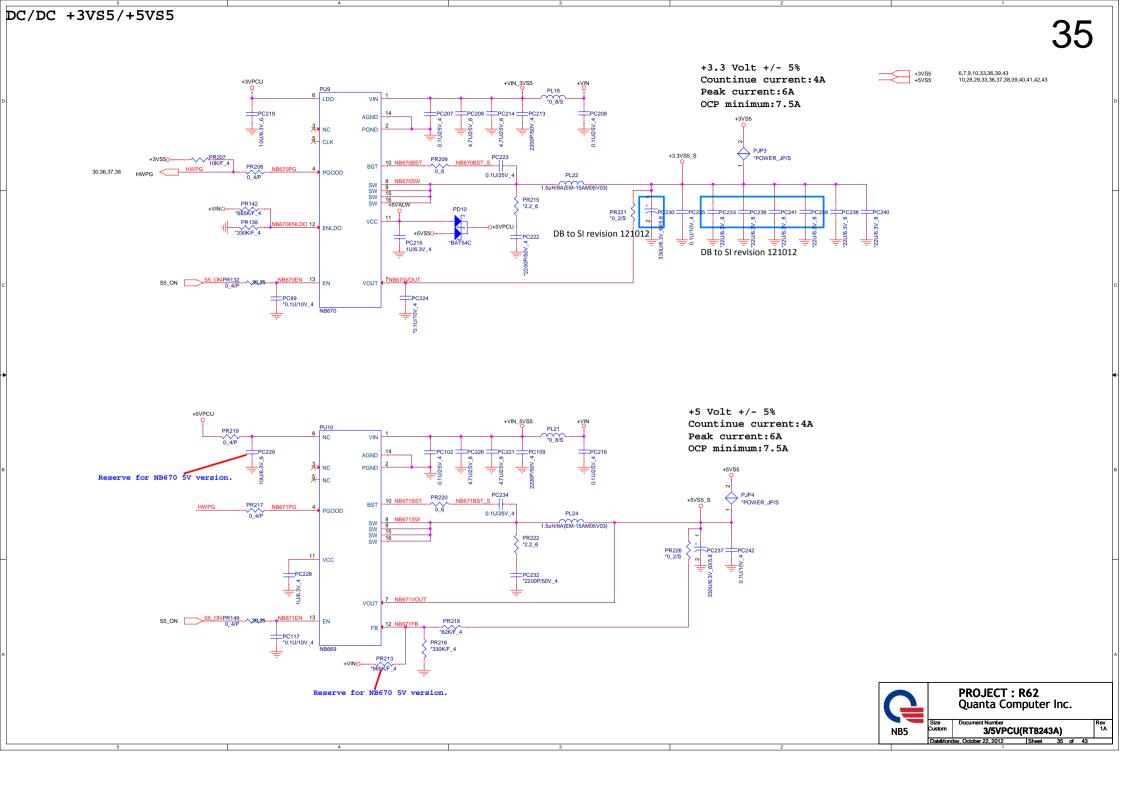


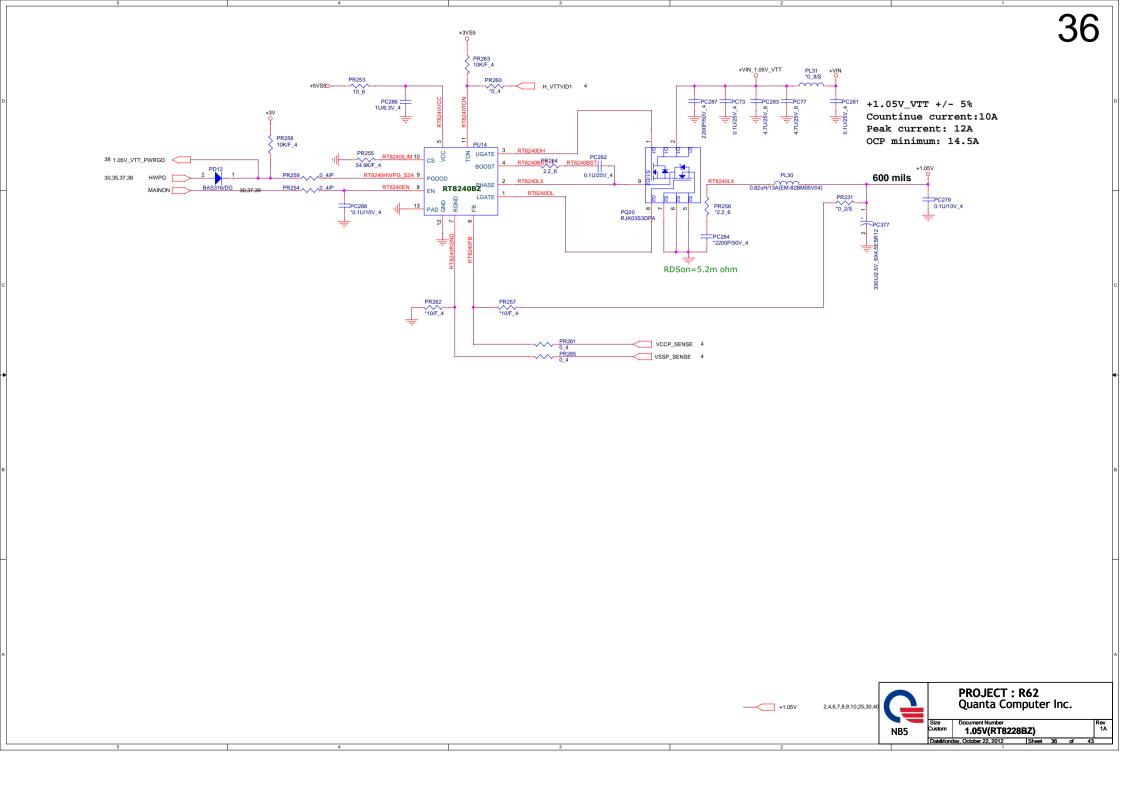




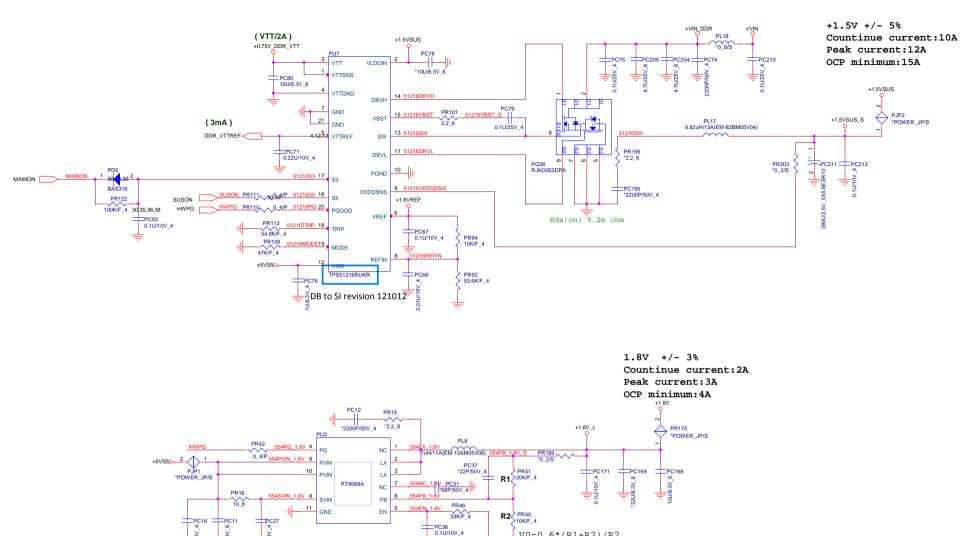






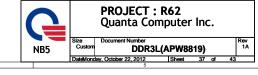






V0=0.6\*(R1+R2)/R2

MAINON



#### TPS51462RGER/AL051462000

For CPU SV system agent voltage slew rate of 0.5 -10 mV/µs

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

