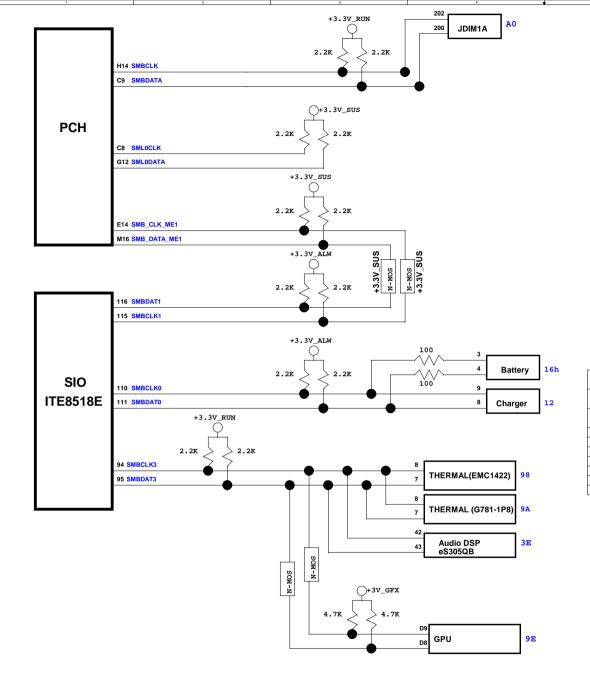
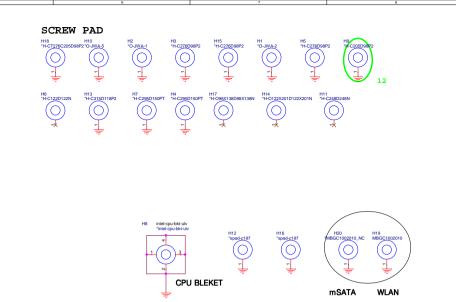
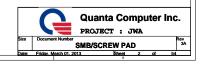
JWA 15.6" Intel Chief River Platform Block Diagram PCB 8L STACK UP Channel A PCI-E Gen2 VRAM DDR3 x 4 LAYER 1: TOP DDR3 On Board x 8 Lane DDR3 1333/1600 MT/s **Intel Ivy Bridge** Nvidia N13P-GV2 (64bit) 1GB/2GB LAYER 2 : SGND Maxima 1GB/2GB PAGE 18 Power: 27.5 Watt LAYER 3: IN1 PAGE 11~12 Processor: Daul Core LAYER 4: IN2 Package: FCBGA595 Channel B Power: 35/17 Watt Size: 23 x 23 mm LAYER 5 : SVCC DDR3 SO-DIMM2 Package: BGA1023 DDR3 1333/1600 MT/s LAYER 6: IN3 Maxima 4GB Size: 31 x 24 mm LVDS Conn LAYER 7: GND RVS PAGE 13 PAGE 6~10 PAGF 14~17 PAGE 26 LAYER 8: BOT Power Source BCLK 100MHz 27MHz VGA Conn BQ24707 System Charger Power (+BATCHG) PAGE 17 32.768KHz Ē PAGE 27 SATA - 1st HDD Package: SATA0 6GB/s LVDS Interface Power: PAGE 3 **HDMI Conn** System Power (+3VS5/+5VS5) mSATA - 2nd HDD SATA1 6GB/s CRT PAGE 28 PAGE 46 Package: **Intel Panther Point** PAGE 35 Platform LayController Hub USB3.0 Port x 1 Power: System Memory Power (+1.5VSUS/ HDMI Interface DP PortB Support USB Charger Power: 4.1 Watt +0.75V DDR VTT/DDR VTTREF) ODD SATA2 3GB/s IC : TPS2540ARTER Package: FCBGA989 HM77 USB3.0 Interface USB 3.0 Port 2(USB 2.0 Port 1) Package: PAGE 31 Size: 25 x 25 mm Power: PAGE 34 RT8241DZQW / RT8068AZQW Processor Power (+VCCSA/+1.8V) 25MHz **USB2.0** Interface PAGE 19~25 PAGE 50 PCH Power (+1.05V) Camera Touch Screen PAGE 49 SPI Interface PAGE 28 PAGE 43 LPC Interface PCIE Gen 1 x 1 Lane DGPU Power (+VGACORE/+3V GFX/ +1.5V_GFX/+1.05V_GFX) Port3 Port5 IT8518E/HX Combo Jack Realtek RTS5229-GR Atheros Halt Mini Card AR8161-BL3A-R iPHONE type Processor Power (+VCC_CORE/ ALC290O-GR Card Reader WLAN / BT Combo PAGE 36 **LAN Controller** +VCC_GFX) System BIOS 8M Embedded Controller Power: Power: Power: PAGE 51/52 SPI ROM Package: QFN48 Package: LQPF48 Power: PAGE 39 Package: OFN48 Package: LQFP128 Size: 7 x 7 mm Size: 7 x 7 mm Size: 6 x 6 mm DC JACK & Battery CONN Kevboard Size: 16 x 16 mm PAGE 40 PAGE 45 PAGE 36 PAGE 33 PAGE 30 PAGE 35 **Touch Pad** PAGE 40 **I2S Interface** Audience Subwoofer 25MHz Thermal IC **SMBUS** DMIC1 eS305BQ TPA2011D1 Fan1 PAGE 36 **PWM** Power: DB PAGE 37 PAGE 42 PAGE 38 Package: LQPF48 USB3.0 Port x 2 DMIC2 Size: 7 x 7 mm USB 3.0 Port 1/3 LED PAGE 36 (USB 2.0 Port 0/2) PAGE 36 PAGE 29 PAGE 32 HALL Sensor **Power Button** 12.288MHz PAGE 40 PAGE 41 MB Label P/N: HCR0A011010 **Quanta Computer Inc.** PROJECT : JWA **Block Diagram**





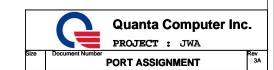
IC	SMBus Address
JDIM1A	A0h
EMC1422	1001100xb (98h)
G781-1P8	1001101xb (9Ah)
BQ24707ARGRR	0b0001001x (0x12h)
Battery	16h
eS305QB	3Eh
N13P-GV2	9Eh
	JDIM1A EMC1422 G781-1P8 BQ24707ARGRR Battery eS305QB

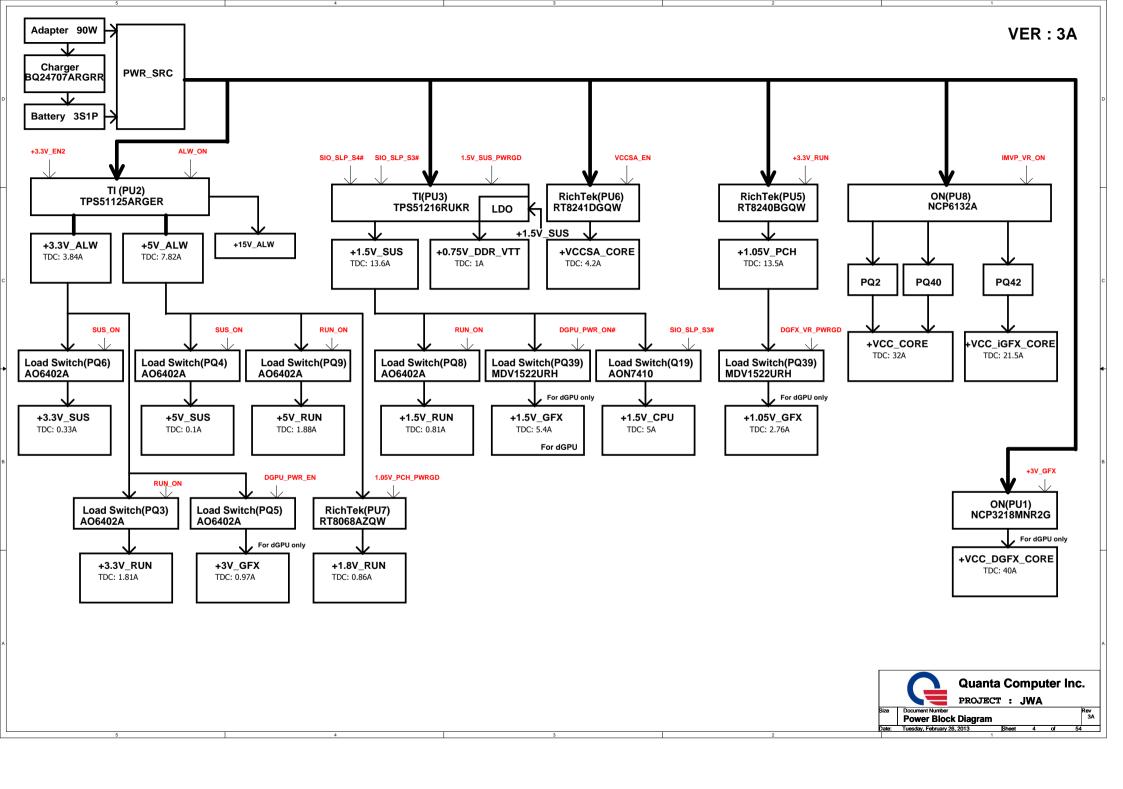


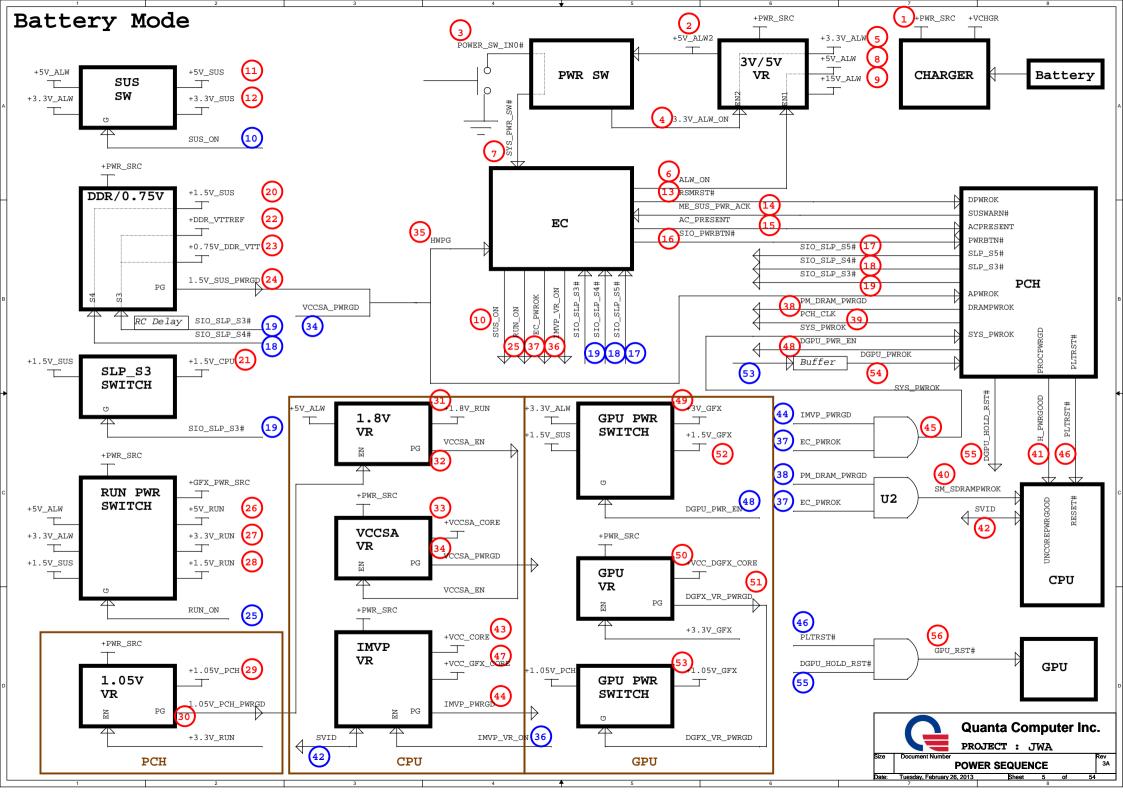
USB Master	Port Assignment
USB0	External port#1 (USB3.0)
USB1	External port#2 (USB3.0 /Power share/debug port)
USB2	External port#3 (USB3.0)
USB3	NC
USB4	MiniCard 1 (WLAN/BT)
USB5	NC
USB6	NC
USB7	NC
USB8	NC
USB9	Touch panel
USB10	NC
USB11	NC
USB12	Camera
USB13	NC

SATA Master	Port Assignment
SATA0	HDD
SATA1	mSATA
SATA2	NC
SATA3	ODD
SATA4	NC
SATA5	NC

PCIE Master	Port Assignment
PCIE 1	WLAN
PCIE 2	NC
PCIE 3	Card reader
PCIE 4	NC
PCIE 5	LAN
PCIE 6	NC
PCIE 7	NC
PCIE 8	NC







Ivy Bridge Processor (RESERVED, CFG) PEG ICOMPO 12mil PEG ICOMPI, PEG RCOMPO 4mil, U18A PEG_ICOMPI PEG ICOMPO M2 P6 P1 DMI_TXN0 DMI_RX#[0] PEG_RCOMPO DMI RX#[1 DMI_RX#[2 PEG_RX#[0] PEG_RX#[1] DMI_RX#[3] PEG_RXN1 [19] [19] [19] [19] DMI BALUI PEG_RX#[1] PEG_RX#[2] PEG RXN2 P7 P3 P11 D21 DMI_RX[1] PEG RXN3 DMH DMI_RX[2] DMI_RX[3] PEG_RX#[4] PEG_RXN4 PEG_RXN5 PEG RX#[5] B14 PEG_RXN6 K1 M8 N4 PEG_RX#[6] PEG_RX#[7] PEG_RX#[8] PEG_RX#[10] PEG_RX#[10] PEG_RX#[10] PEG_RX#[11] PEG_RX#[12] PEG_RX#[13] PEG_RX#[15] PEG_RX#[15] DMI TY#f0 DMI_TX#[0] DMI_TX#[1] DMI_TX#[2] R2 DMI_TX#[3] M7 DMI_TX[0] P4 DMI_TX[1] T3 DMI_TX[2] DMI_RXP1 < DMI_TX[2] K22 K19 C21 D19 PEG_RX[0] PEG_RX[1] PEG_RX[2] PEG_RXP0 PEG_RXP1 PEG_RXP2 PEG_RXP3 FDIO TX#[0] PEG RXI3 FDI_TXN1 · PEG_RX[4] PEG_RXP4 PEG_RXP5 FDI0_TX#[1] PEG_RX[5] PEG_RX[6] FDIO TX#[2 PEG_RX[6] C13 PEG_RX[6] D12 PEG_RX[7] C11 PEG_RX[8] C9 PEG_RX[9] F8 PEG_RX[10] C8 PEG_RX[11] C5 PEG_RX[12] H6 W6 FDI0_TX#[3] V4 FDI1_TX#[0] Y2 FDI1_TX#[1] AC9 FDI1_TX#[3] FDI0_TX#[2] PEG_RXP6 FDI_TXN4 < FDI_TXN6 < Intel(R) U6 W10 W3 H6 F6 K6 FDI_TXP0 FDI_TXP1 FDI_TXP2 FDI_TXP3 PEG_RX[13] PEG_RX[14] [19] [19] [19] [19] [19] [19] [19] FDI0_TX[0] FDIO TXI1 FDI0_TX[2] FDI0 TXI3 TXN0 C C128 2 TXN1 C C125 2 TXN2 C C465 2 TXN3 C C130 2 TXN4 C C132 2 TXN4 C C132 2 TXN5 C C116 2 TXN6 C C123 2 TXN6 C C123 2 TXN7 C C121 2 FDI_TXP4 FDI1 TX[0] PEG TX#[0] AA3 FDI1_TX[0] AC8 FDI1_TX[1] AC8 FDI1_TX[2] FDI_TXP5 FDI_TXP6 PEG_TX#[1] PEG_TX#[2] PEG TXN1 FDI1_TX[3] 띕 PEG_TX#[3] PEG_TX#[4] TYN3 FDI_FSYNC0_AA11 1 0.1U/16V 4 [19] [19] FDI_FSYNC0 AA11 FDI_FSYNC1 AC12 FDI0_FSYNC PEG_TX#[5] PEG_TX#[6] EXPRE PEG_TX#[6] PEG_TX#[7] PEG_TX#[8] PEG_TX#[9] PEG_TX#[10] PEG_TX#[11] PEG_TX#[12] PEG_TX#[12] PEG_TX#[13] PEG_TX#[14] PEG_TX#[15] [19] FDI_INT FDI INT FDIO LSYNC eDP_ICOMPO 12mil PEG_TX#[12] PEG_TX#[13] eDP COMPIO 4mil PEG_TX#[14] PEG_TX#[15] eDP_COMPIO eDP_ICOMPO AD2 AG11 PEG TXI01 eDP_HPD# PEG TXP1 eDP ALIX# TXP4 eDP_AUX AC3 AC4 AE11 eDP_TX#[0] eDP_TX#[1] eDP_TX#[2] eDP_TX#[3] X AE7 AC1 AA4 AE10 AE6 eDP_TX[0] eDP_TX[0] eDP_TX[1] eDP_TX[2] eDP_TX[3] IC,IVB_2CBGA,0P7 CPU QPN i7-3540M AJ0QD5J8T00 Quanta B 35W

i5-3230M

i3-3120M

AJSROWXQT01 WIN BS

AJSR0TYRT01 WIN BS

35W

35W

DP & PEG Compensation +1.05V_PCH eDP COMPIO and ICOMPO signals should be shorted near balls and routed within 500 mils +1.05V_PCH PEG_COMP R259 2 24.9/F_ PEG ICOMPI and RCOMPO signals should be routed within 500 mils

PEG_ICOMPO signals should

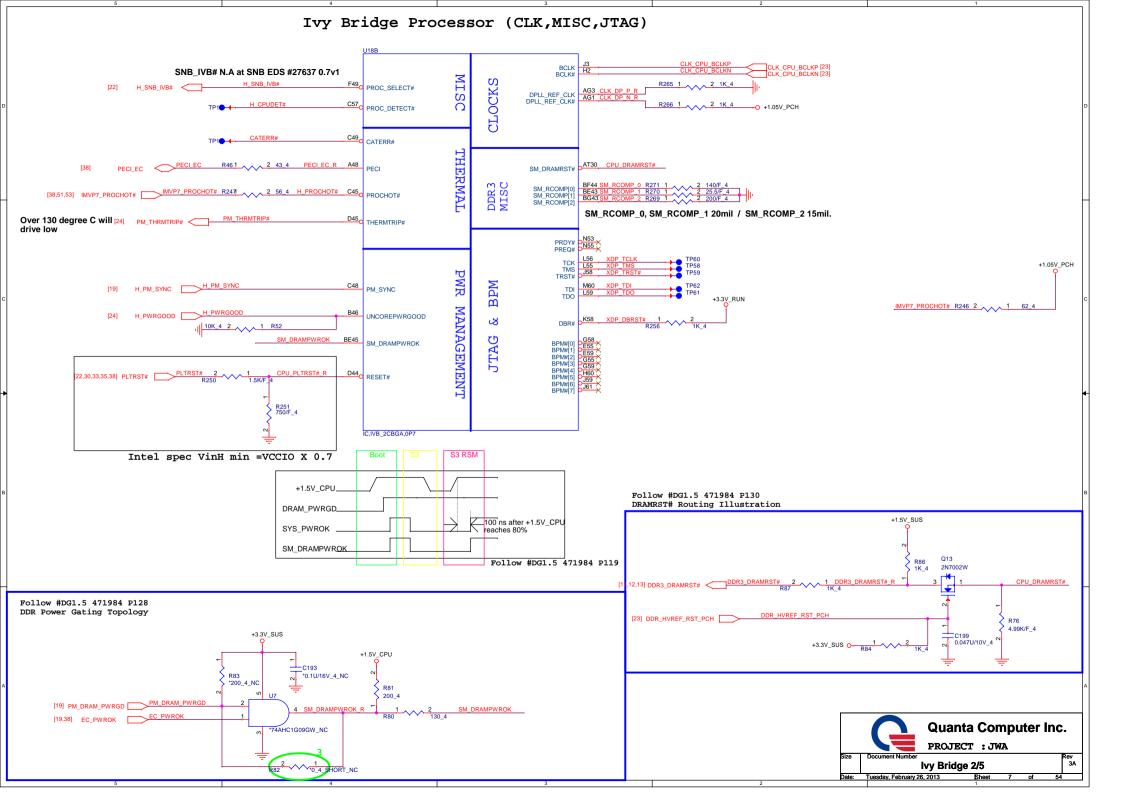
be routed within 500 mils

Quanta Computer Inc. PROJECT : JWA

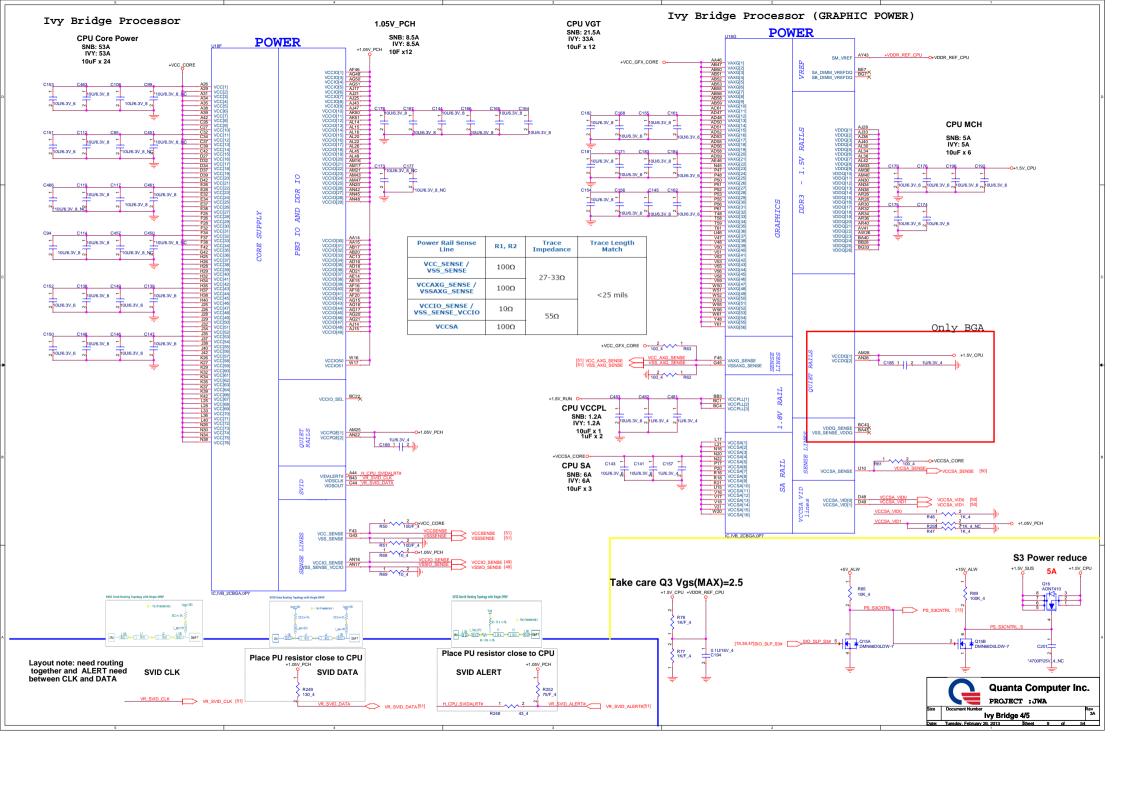
Rev 3A

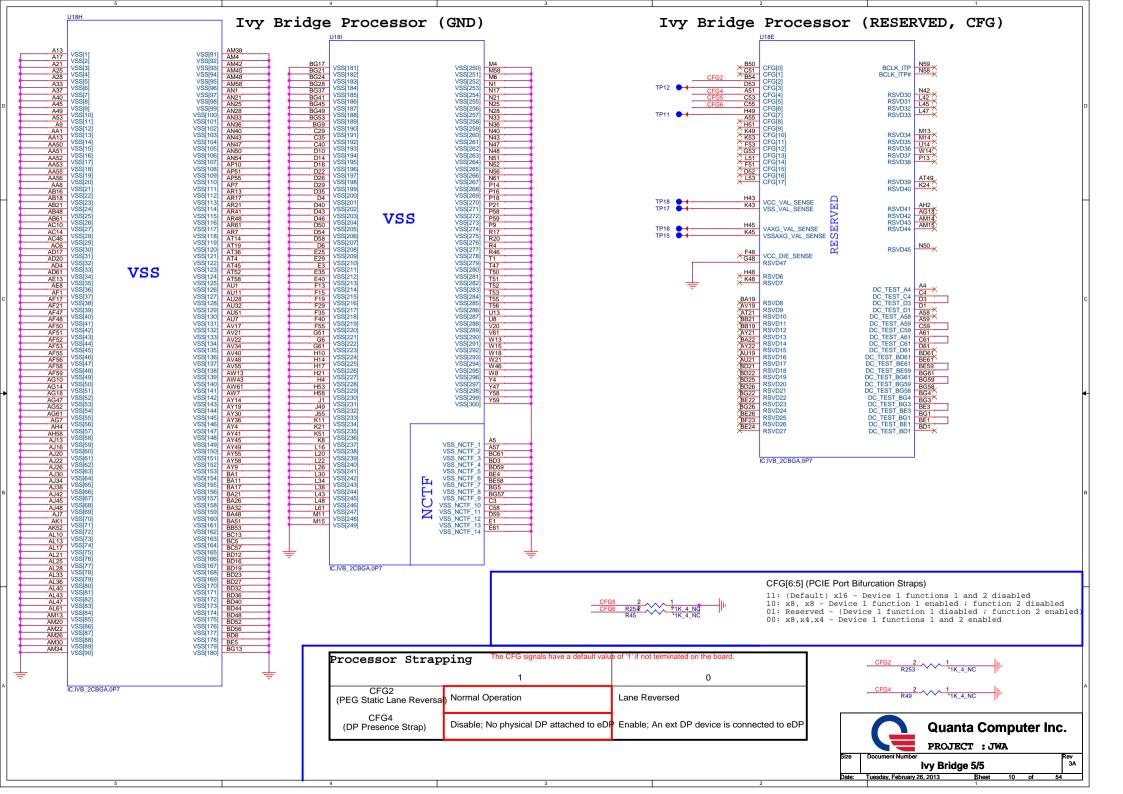
Ivy Bridge 1/5

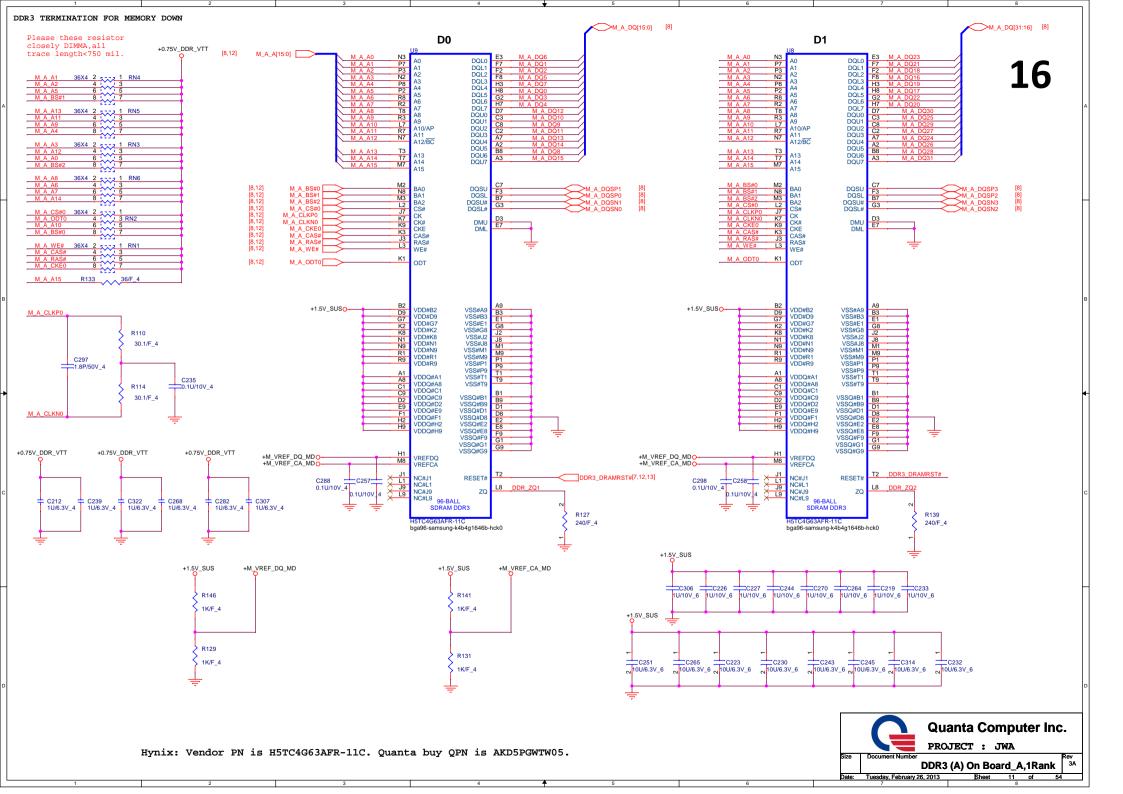
Tuesday, February 26, 2013

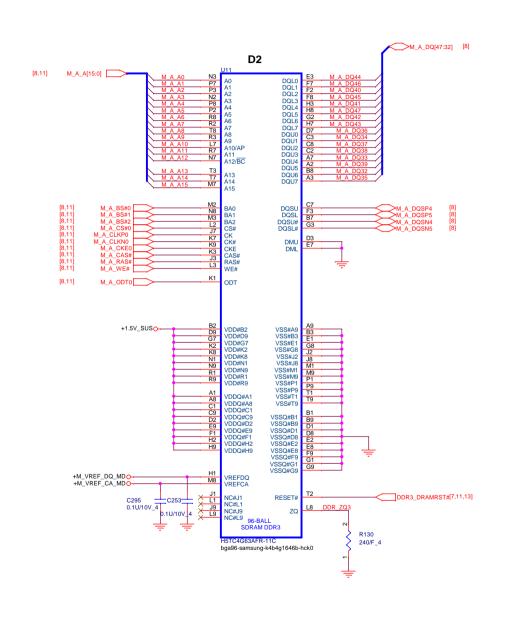


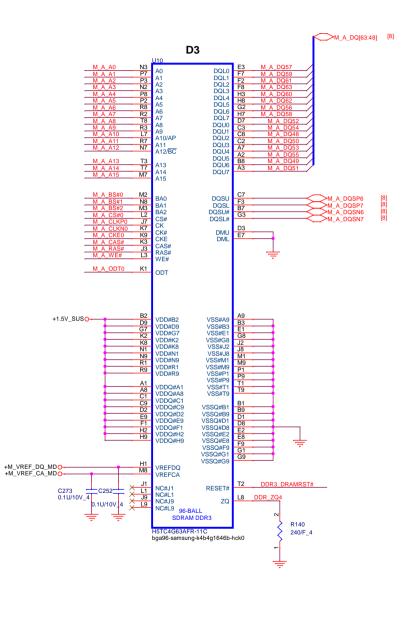
Ivy Bridge Processor (DDR3) U18D U18C M_B_DQ[63:0] M_A_DQ[63:0] SB DOIO SB_DQ[0] SB_DQ[1] SB_DQ[2] SB_DQ[3] >M_B_CLKP0 >M_B_CLKN0 >M_B_CKE0 SB_CK[0] [13] [13] [13] SA_DQ[1] SA_DQ[2] SB_CK#[0] SB_CKE[0] SA_CK[0] SA_CK#[0] SA_CKE[0] AK4 SB_DQ[4 SB_DQ[5 SA_DQ[3] SA_DQ[4] SB_DQ[6 AL8 AL7 AR11 AP6 AR1 SB_DQ[6] AU4 SB_DQ[7] AT2 SB_DQ[8] AV4 SB_DQ[9] BA4 SB_DQ[10] AU3 SB_DQ[11] AR3 SB_DQ[12] SA_DQ[6] SA_DQ[7] SA_DQ[8] SA_DQ[10 SB_CK[1] SB_CK#[1] [13] [13] [13] AT40 AU40 BB26 SA_CK[1] SA_CK#[1] SA_CKE[1] M_B_CLKN1 AU6 AV9 AR6 BF27 SB CKET AP8 SA_DQ[12] SA_DQ[13] AY2 BA3 BE9 BD9 SB DQI13 APO AT13 SA_DQ[14] AU13 SA_DQ[15] BC7 SA_DQ[16] SA_DQ[16] SB_DQ[14] SB_DQ[15] SB_DQ[16] SB_DQ[17] [13] [13] SB CS#IOI SA_DQ[16] SA_DQ[17] SA_DQ[18] SA_DQ[19] SA_DQ[20] SA_DQ[21] BB40 BC41 BD13 SB_DQ[17 SB_DQ[18 BF47 SA_CS#[0] SA_CS#[1] BF12 SB_DQ[16] BF8 SB_DQ[19] BD10 SB_DQ[21] BD14 SB_DQ[22] BA9 BE13 SB_DQ[22] BF16 SB_DQ[23] BE17 SB_DQ[24] BE18 SB_DQ[25] BE21 SB_DQ[26] SA_DQ[22] SA_DQ[23] SA_DQ[24] SA_DQ[25] SB_ODT[0] SB_ODT[1] AV14 AV14 AR14 AY17 AR19 BA14 SA_DQ[25] SA_DQ[26] SA_DQ[26] SA_DQ[27] BG47 SA_ODT[0] SA_ODT[1] M_A_ODT0 [11,12] BA41 BE21 SB_DQ[26] BE14 SB_DQ[27] BG14 SB_DQ[28] BA14 SA_DQ[27] AU14 SA_DQ[28] BB14 SA_DQ[29] BB17 SA_DQ[30] BA45 SA_DQ[31] AR43 SA_DQ[32] SB DQ[29 BG14 BG18 BF19 BD50 BD50 BF48 BD53 BD53 BD53 BB-DQ[32] BD53 BB-DQ[33] M_B_DQSN[7:0] [13] SB DQS#[0] AV3 BG11 BD17 BG51 AL11 AR8 AV11 AT17 SA_DQS#[0] SA_DQS#[1] SB_DQS#[1] SB_DQS#[2] M_A_DQSN0 M_A_DQSN1 M_A_DQSN2 M_A_DQSN3 SA_DQ[33 SA_DQ[34 SA_DQS#[2] SA_DQS#[3] SB_DQ[34] SB_DQ[35] SB_DQS#[3] SB_DQS#[4] BA59 AT60 AK59 BC48 BC45 AR45 BD49 M_A_DQSN3 M_A_DQSN4 M_A_DQSN6 SA_DQ[35] SA_DQ[36] SA_DQS#[4] SA_DQS#[5] SB_DQ[36] SB_DQ[37] SB_DQS#[5] SB_DQS#[6] BE49 BD54 Ø SA_DQS#[6] SA_DQS#[7] SB_DQ[38] SB_DQS#[7] AT48 AY48 MEMORY SA DOI38 SB DOI39 MEMORY SA_DQ[36] SA_DQ[39] SA_DQ[40] SA_DQ[41] BF50 BE57 BC59 SB_DQ[41] SB_DQ[42] BA49 AV49 AY60 BE54 SB_DQ[42] SB_DQ[43] SB_DQ[44] SA_DQ[42 SA_DQ[43 SA_DQ[44] SA_DQ[45] SB_DQ[45] SB_DQ[46] M_B_DQSP[7:0] [13] SA DQS[0] SB DQS[0] SYSTEM SYSTEM SA_DQ[46 SA_DQ[47 SA_DQS[1] SA_DQS[2] M_A_DQSP1 M_A_DQSP1 M_A_DQSP2 SB_DQ[47] SB_DQ[48] SB_DQS[1] SB_DQS[2] BB55 BA55 AW58 AU58 BE11 BD18 M_A_DQSP3 M_A_DQSP4 SB_DQS[3] AN61 AN59 BE51 BA61 SA DOI49 SA DOS[4 SB DOS[4] SB DOISO M B DC SA_DQ[50 SA_DQS[5] SA_DQS[6] SB_DQ[51 SB_DQS[5] SB_DQS[6] AR59 AK61 M A DOSPE SB DOI52 SA_DQ[52 SB_DQ[53 AT54 AP56 AP52 AN57 DDR SA_DQ[53 SA_DQ[54 SB_DQ[54] SB_DQ[55] DDR SA_DQ[55] SA_DQ[56] SB_DQ[56] SB_DQ[57] AN53 SA_DQ[57 SA_DQ[58 SB_DQ[58] SB_DQ[58] AG56 AG53 AG59 AM60 SB_DQ[60] SB_DQ[61] SB_DQ[62] >M_B_A[15:0] AN55 AN52 BF32 BE33 M_A_A[15:0] SB_MA[0] SB_MA[1] SB_MA[2] SA_DQ[60 SA_DQ[61 SA MA(0) B635 SA MA(1) B834 SA MA(2) B638 SA MA(2) B038 SA MA(3) A734 SA MA(4) AU34 SA MA(5) B832 SA MA(6) A732 SA MA(7) A732 SA MA(1) B630 AH60 SB_DQ[63] SA DQI62 SB_MA[4] SB_MA[5] AV30 BG30 SB_MA[6] SB_MA[7] BG39 BD42 SB_BS[0] MAA SB_MA[8] SB_MA[9] BE28 BD43 AT22 SB_MA[10] SB_MA[11] AV28 BD46 AT26 AU22 SB_MA[12] SR CAS# SB MAI13 SA_CAS# SA_RAS# SA_WE# AT41 IC,IVB_2CBGA,0PT IC,IVB_2CBGA,0P7 **Quanta Computer Inc.** PROJECT : JWA Rev 3A Ivy Bridge 3/5 Tuesday, February 26, 2013



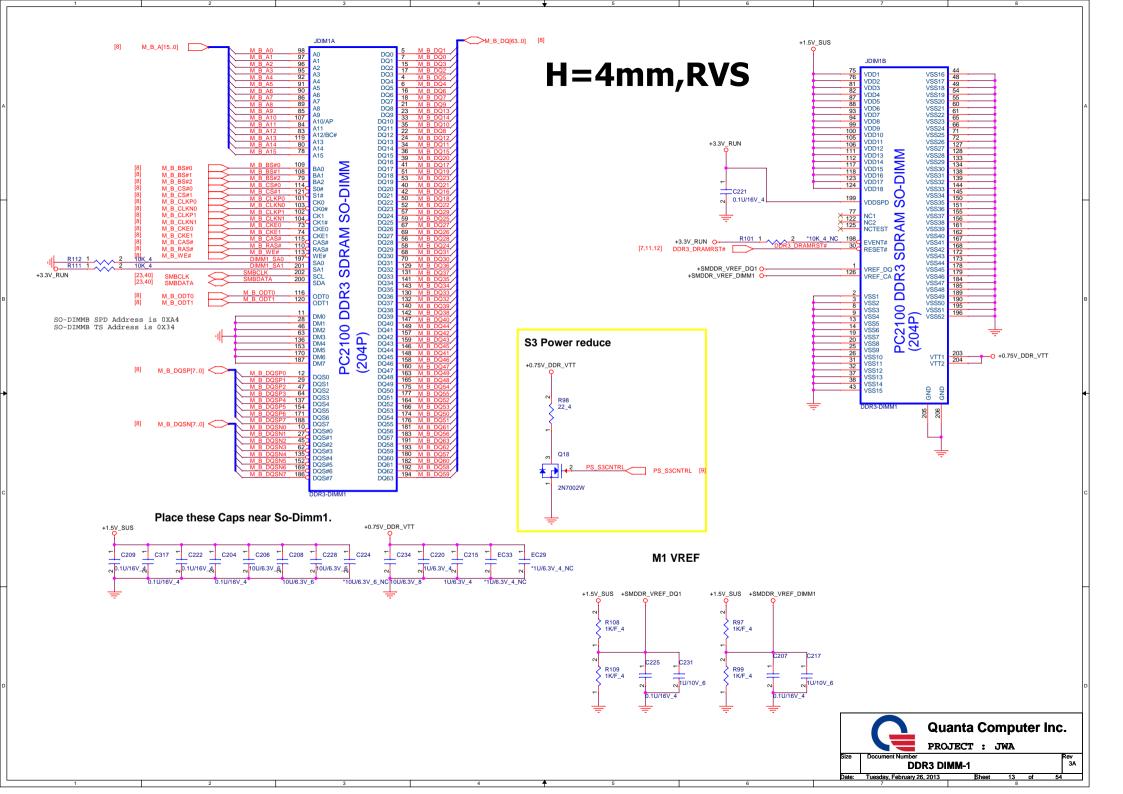


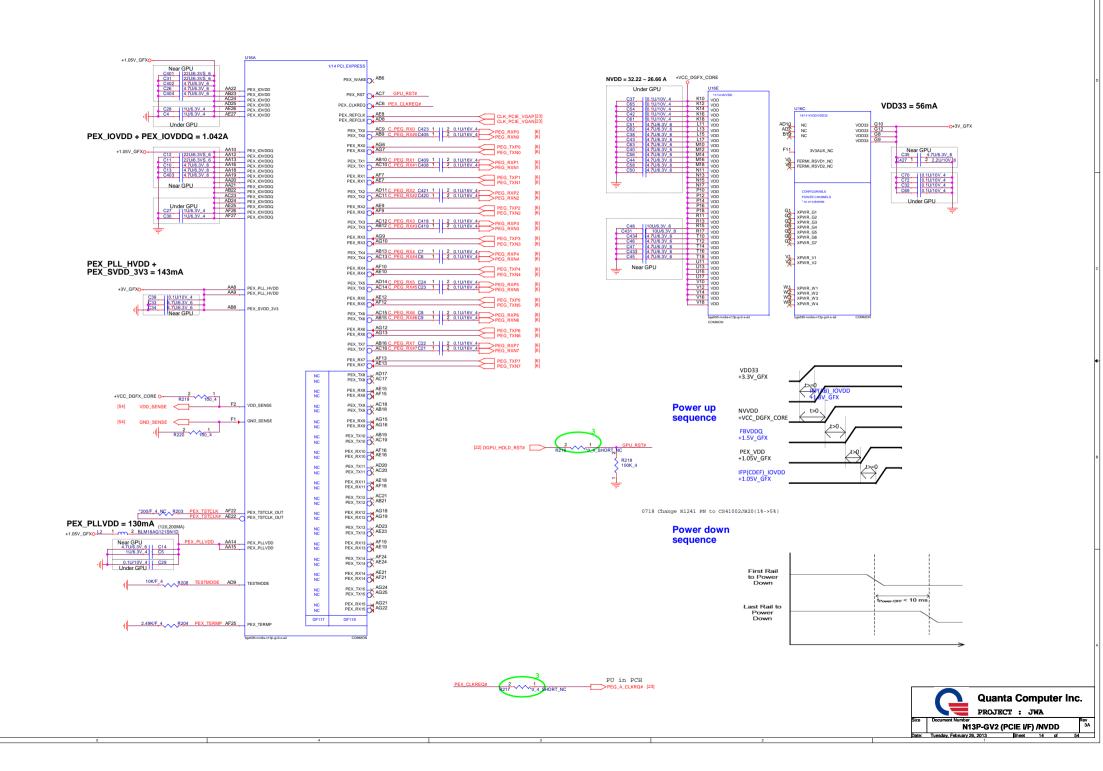


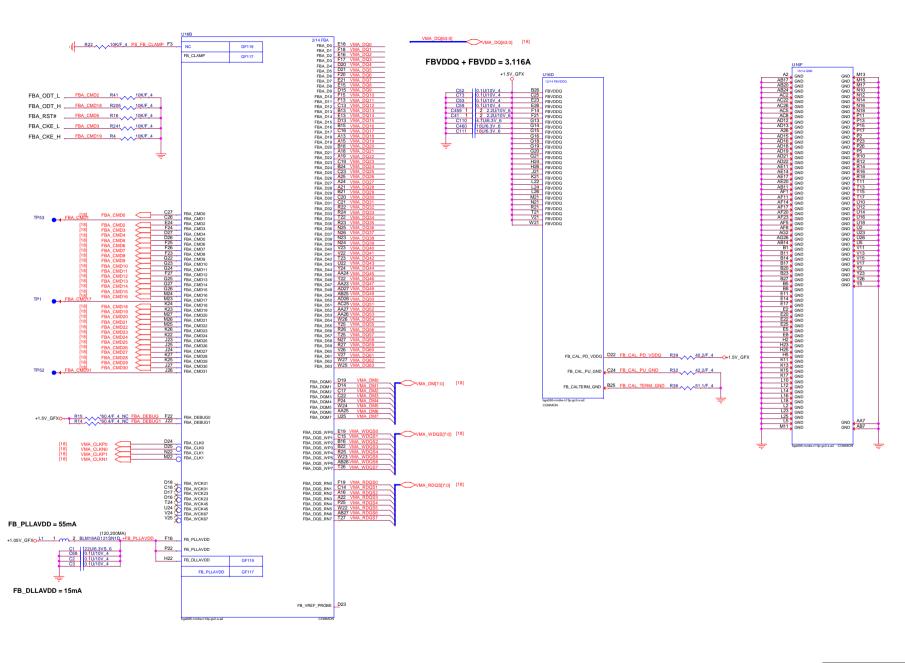




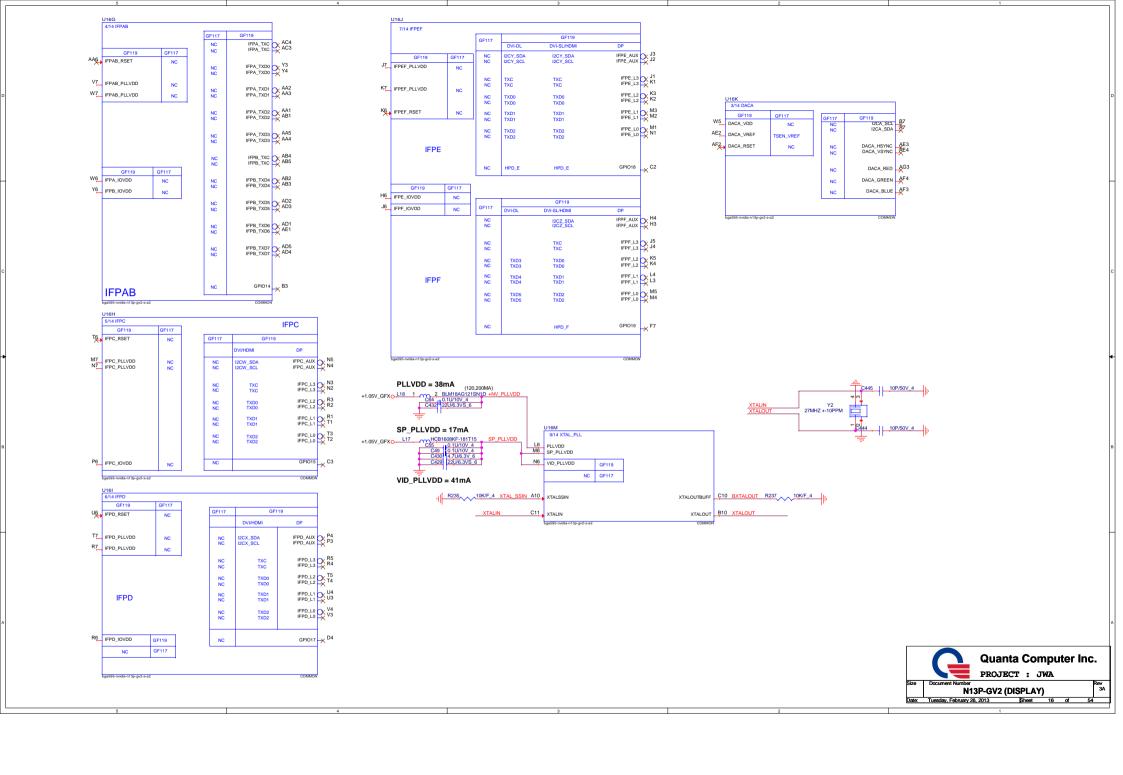


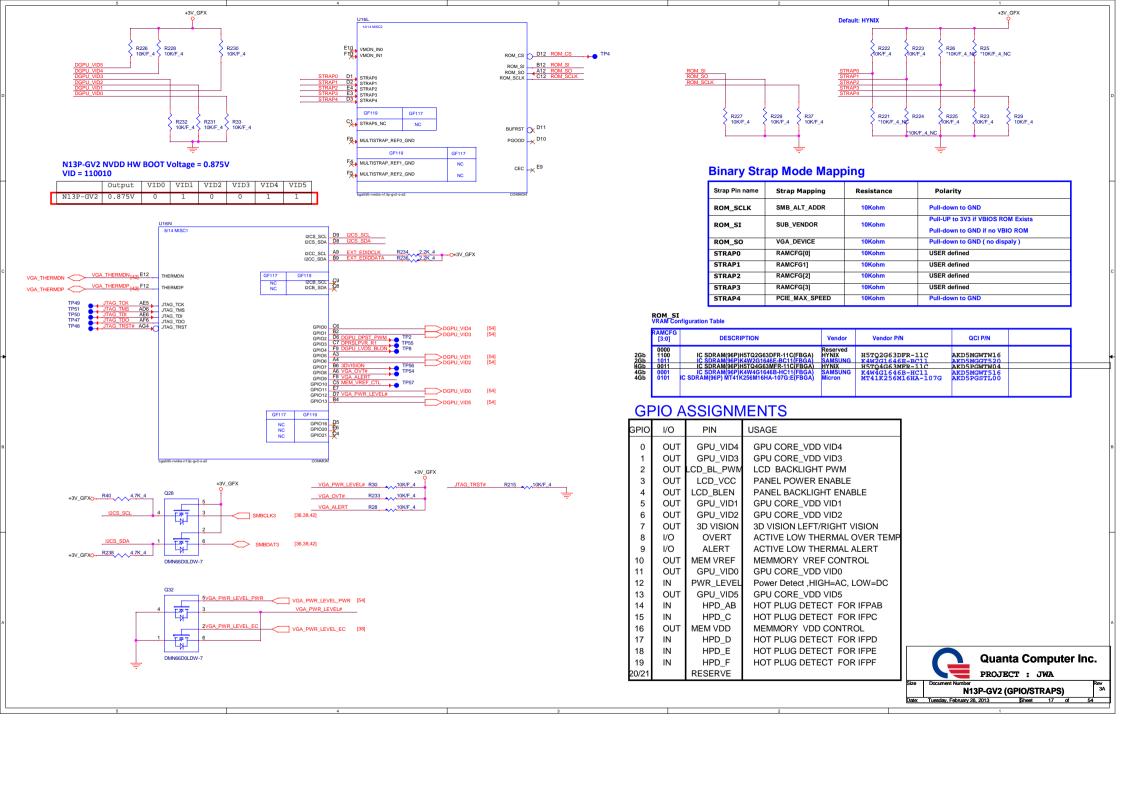






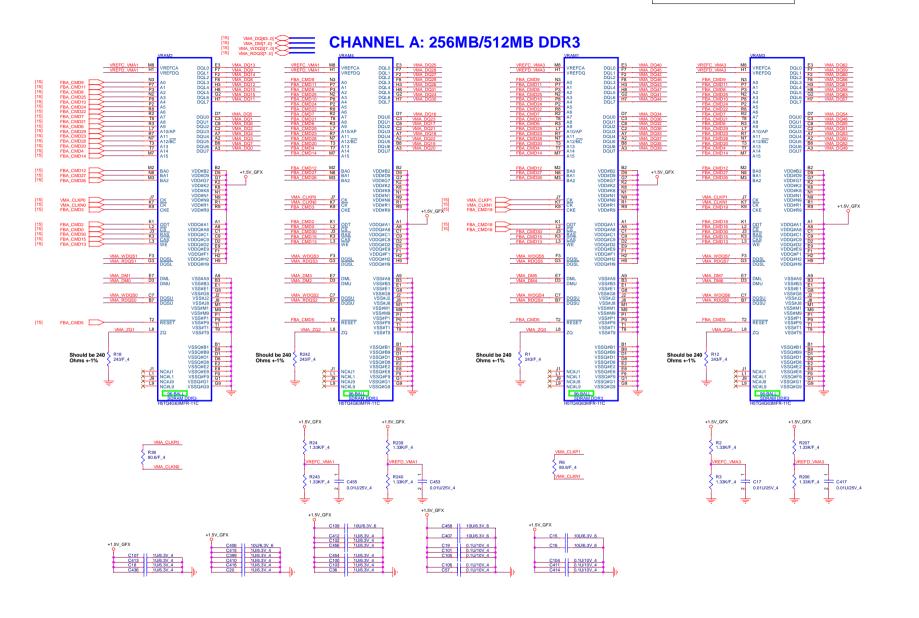




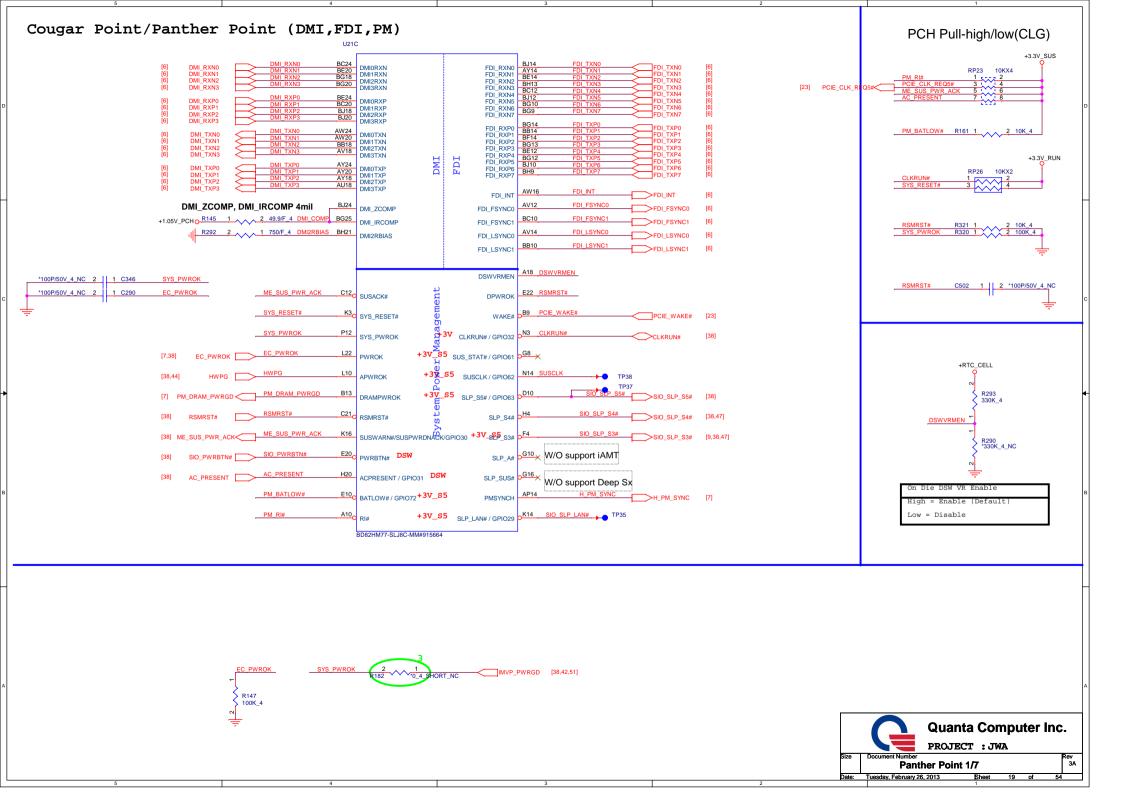


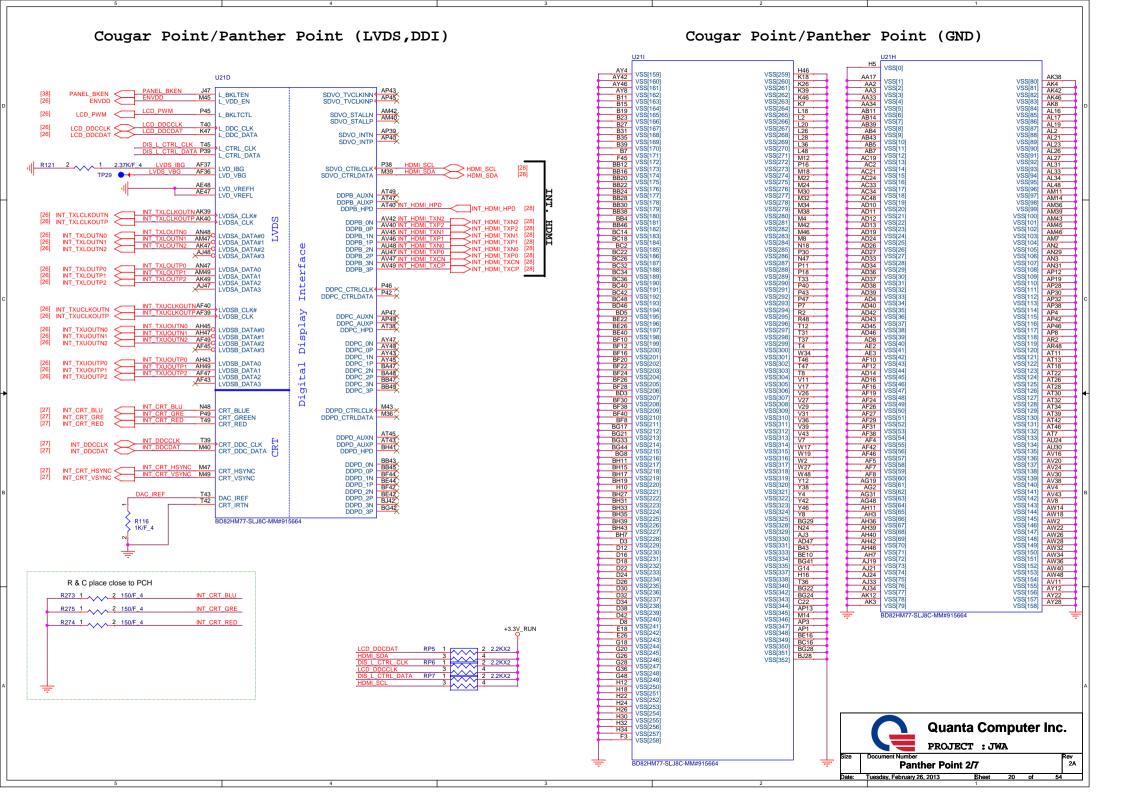
900MHz VRAM size:

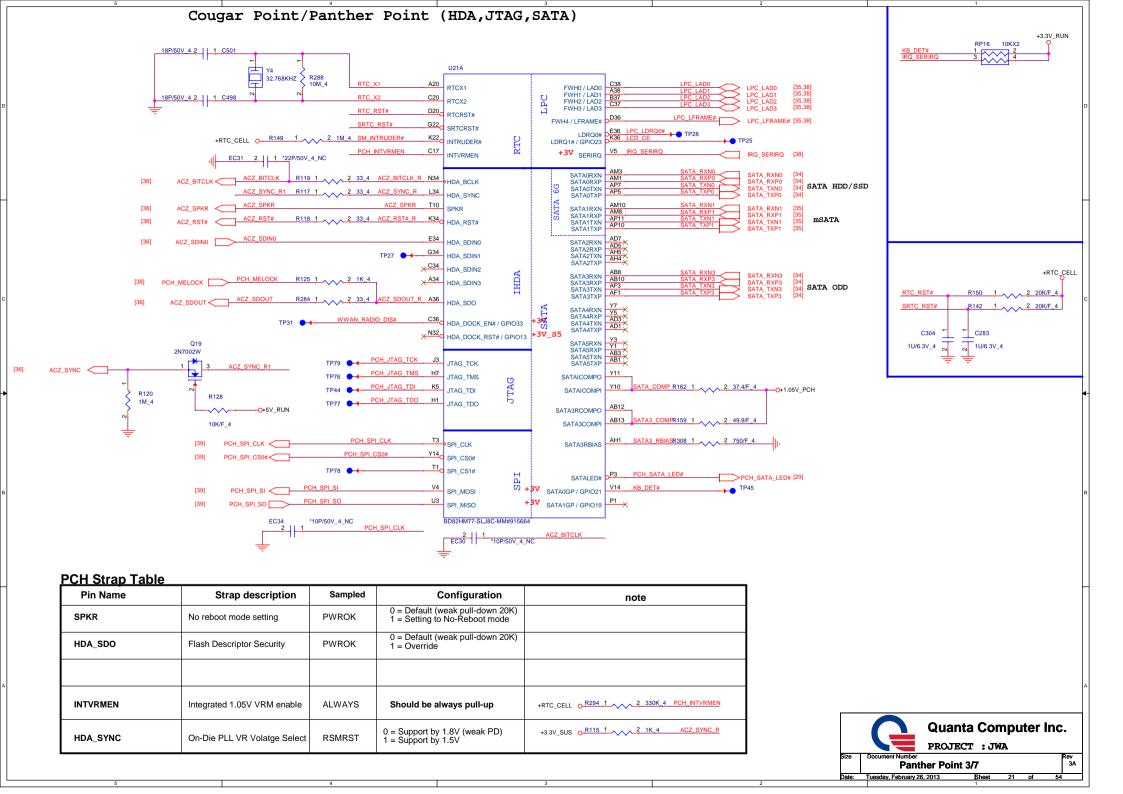
Samsung 64Mx16, P/N = AKD5EGGT500
Samsung 128Mx16, P/N = AKD5MGWT516
Hynix 64Mx16, P/N = AKD5LGWT602
Hynix 128Mx16, P/N = AKD5PGWTW04

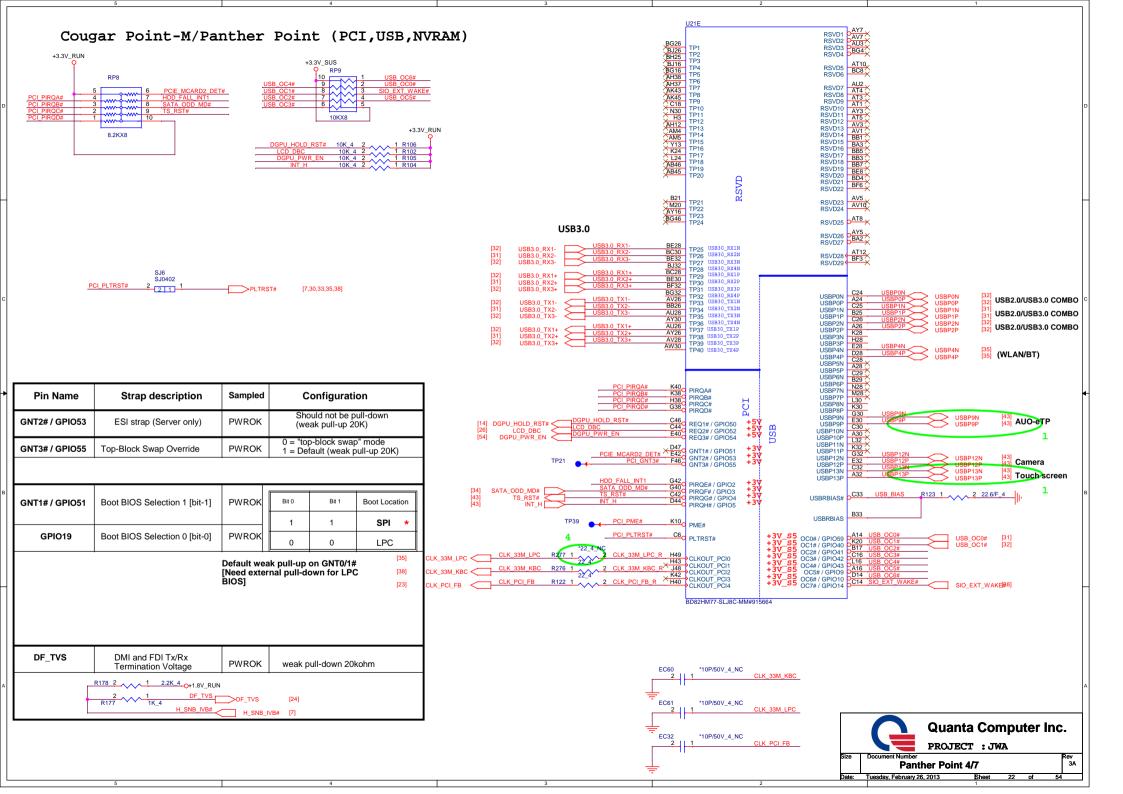


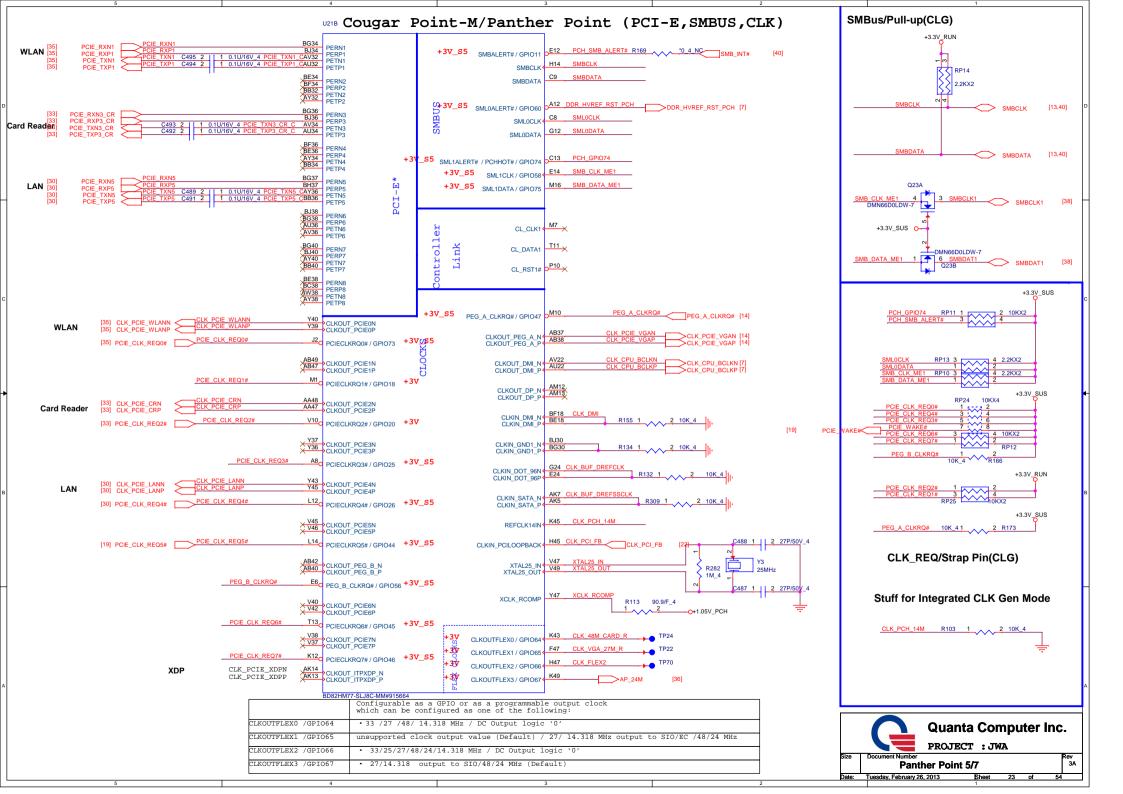


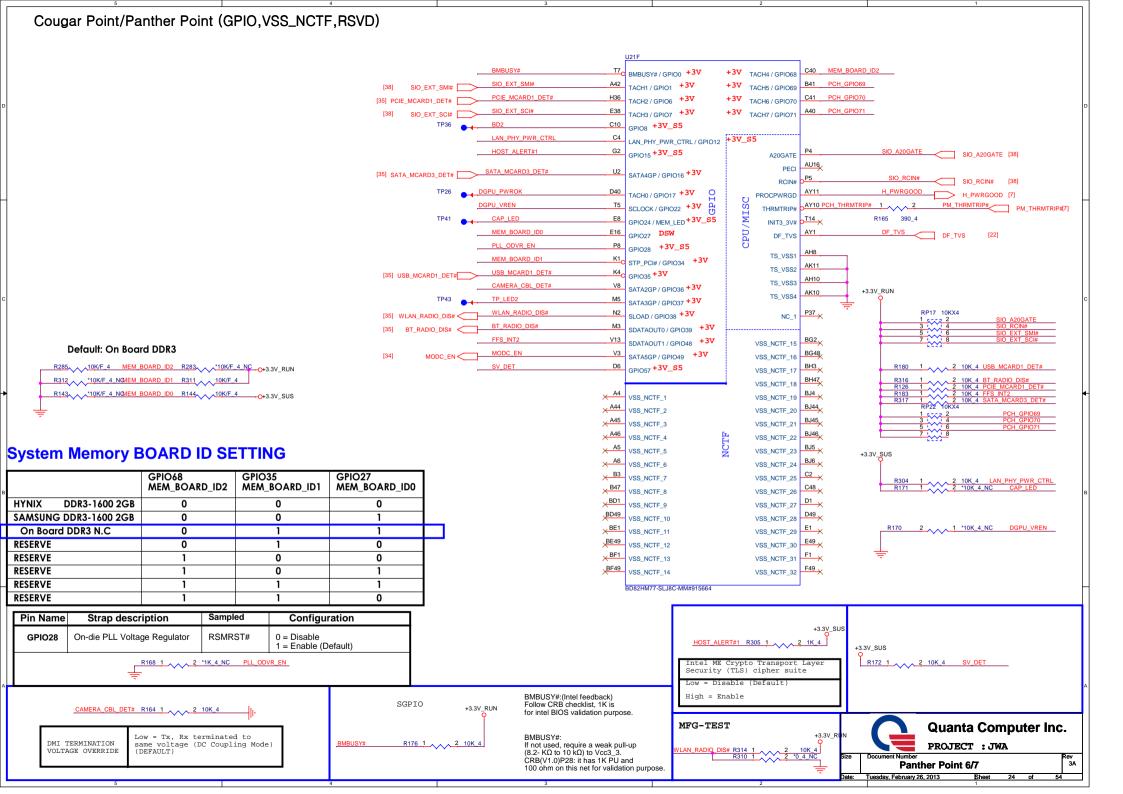




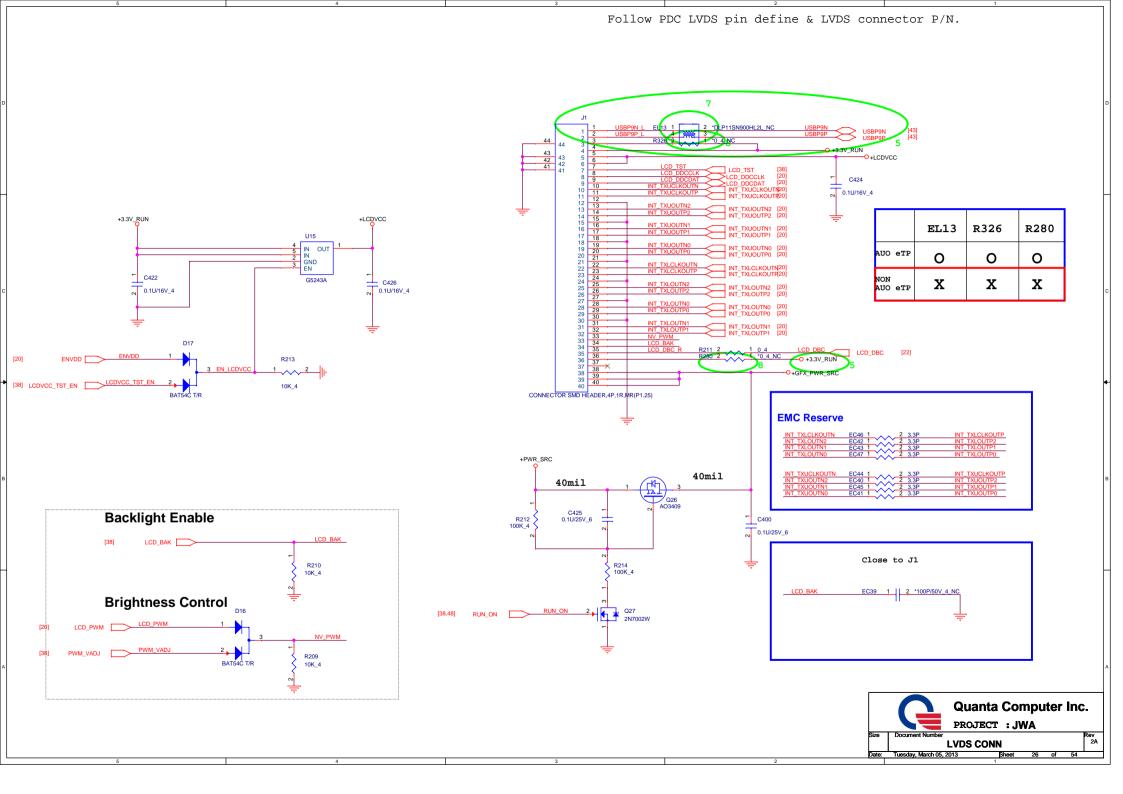


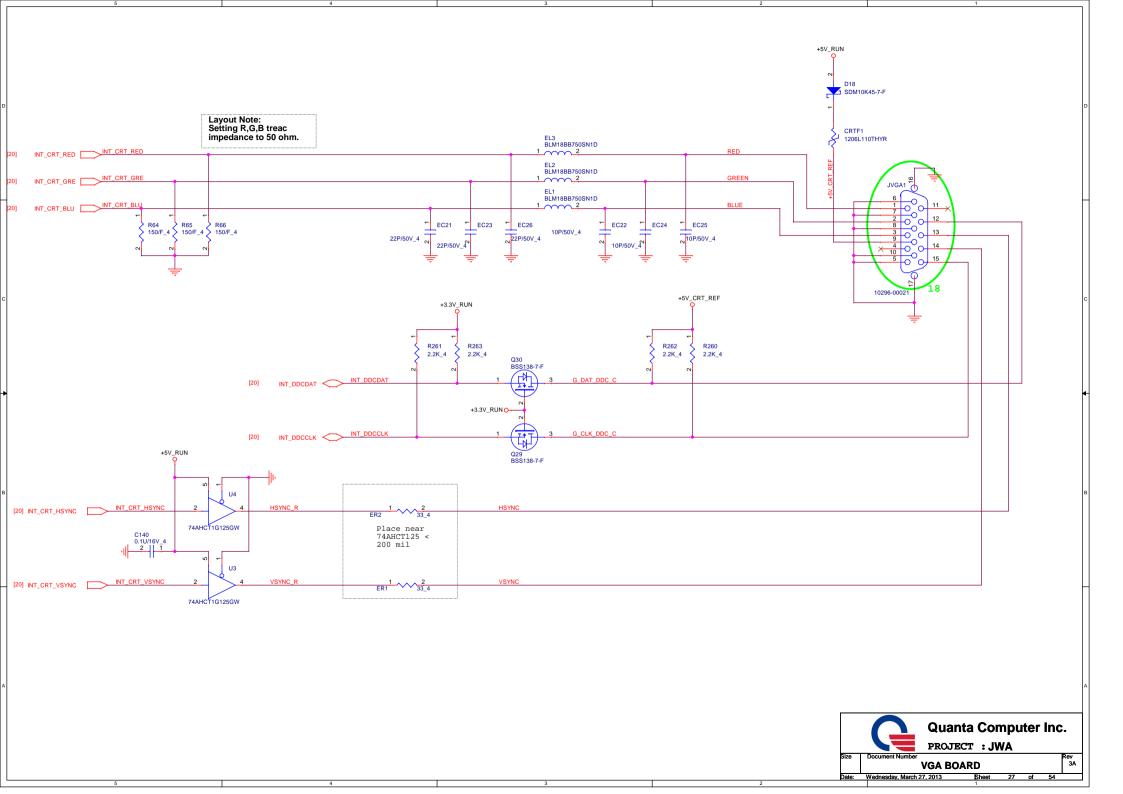


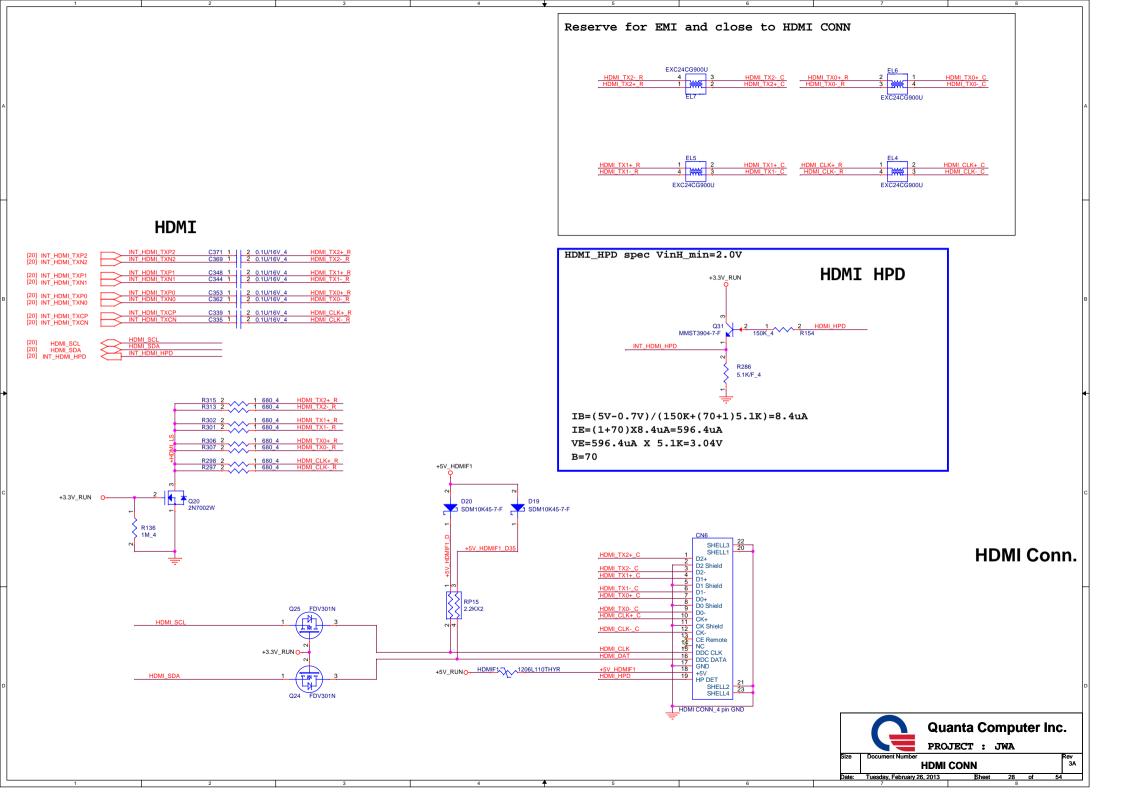


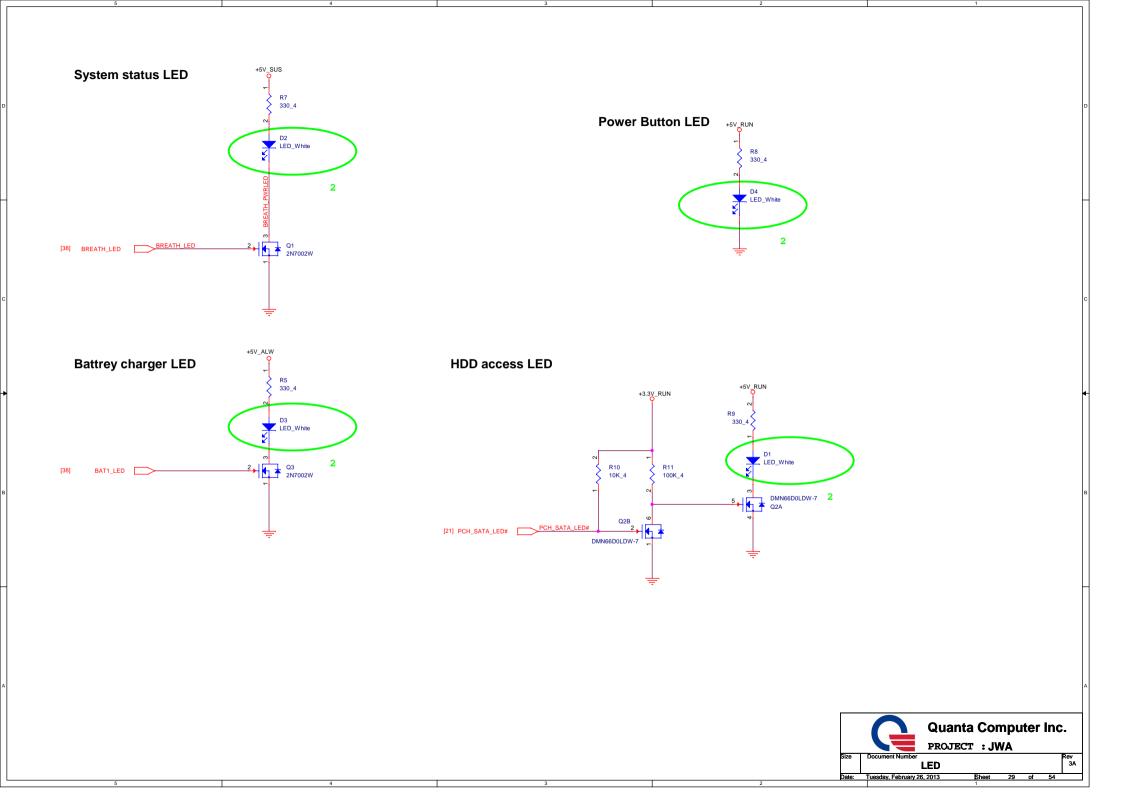


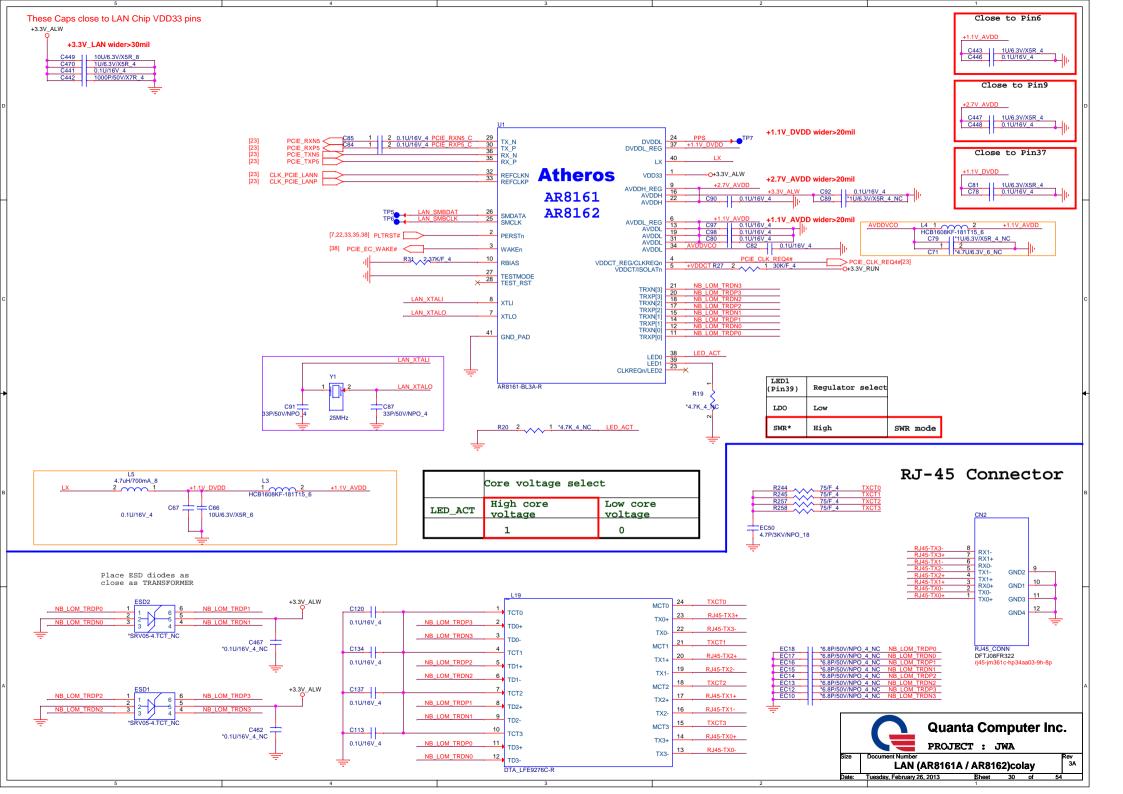
Cougar Point/Panther Point (POWER) Cougar Point/Panther Point (POWER) POWER Tie to 3.3V SUS, when +3.3V SUS= 10mA(10mil) +1.05V_VCCUSBCORE +1.05V PCH don't support Deep SX CP v1.0 p88 VCCACLK C269 1 2 1U/6.3V_4 VCCIO[30] VccADAC =63mA(10mils) C262 2 1 0.1U/16V VCCDSW3_3 +3.3V_RUN P28 R100+3.3V_RUN VCCIOI31 PCH VCCDSW V12 VCCIO(32) DOPSLISBYE T29 POWER VCCIOI331 C213 1 2 10U/6.3V 6 C211 1 2 0.1U/16V 4 C214 1 2 0.01U/25V 4 1.7 A (70mils) +1.05V PCH 10U/6.3V_6 N VCC3_3[5] +3V SUS CLKF33 =30mA(10mils VCCSUS3_3[7] VCCADAG /CCAPLLDMI2 T24 C281 1 2 0.1U/16V_4 VCCSUS3_3[8] AD21 AD23 AF21 AF23 AG21 AG23 AG24 AG26 AG27 AG29 +1.05V_PCH 0 +1.05V_VCCIO =40mA(10mils VCCSUS3_3[9] CCCORE[5 AL24 V24 VCCSUS3_3[10] DCPSUS[3] +3.3V_RUN C300 1 2 0.1U/16V_4 +VCCALVDS VccALVDS=1mA (10mils) CCCORE VCCSUS3 3[6] /CCCORFIE VCCCORE VCCAL VDS AA19 VCCCORE[10 AK37 VCCASW[4] VSSALVDS VCCIOI34 AA21 VCCCORE[12] VCCCORE[13] VCCASWIST AJ23 AJ26 AJ27 AJ29 +5V_PCH_VCC5REFSUS=1mA(10mil) AA24 VCCTX_LVDS[1 VCCASWI3I VSREE SUS AM38 AA26 VCCTX_LVDS[2] AP36 AA27 ALL DEV. DCH AN24 +3.3V_SUS +1.05V PCH AA29 +1.05V_PCH_VCCDPLL_EXP VCCTX_LVDS[4] CCASW[6] AN19 VCCIO[28] VccASW =0.903A (40mils) AA31 V5REF= 1mA(10mil) VCCASWI71 AC26 B.122 C163 2 1 10U/6.3V_8 C261 2 1 10U/6.3V_8 P34 +5V PCH VCC5REE +3V_VCC_GIO Vcc3 3 = 0.228A (15mils) VCCAPLLEXP VCCASWIRI VSREE 1 2 O+3.3V_RUN
C247 1 2 1U/6.3V_4 AC27 VCC3 3[6] VCCASW[9] AN16 VCCIOI151 VCCSUS3_3[2] AC29 VCCASWI101 AN17 C255 1 2 0.1U/16V_4 N22 VCCIO[16] VCCSUS3_3[3] AC31 VCCSUS3_3[4] P20 AN21 AD29 P22 C311 1 2 1U/6.3V_4 VCCSUS3_3[5] +1.05V_PCH VccIO =3.711 A(160mils) AN26 AD31 VCCIO[18] VCCASW[13] +1.05V PCH AN27 AT16 W21 AA16 +3.3V SUS =50mA(10mils) VCCIO[19] VCCVRM[3] VCCASW[14] VCC3 3[1 AP21 W23 W16 C368 1 2 0.1U/16V_4 VCCASWI15I VCC3 3[8] ACCIOI301 AP23 AT20 C312 1 2 1U/6.3V_4 W24 VCCASWI161 VCC3_3[4] VCCIOI241 VCCDMI[1] W26 C256 1 2 0.1U/16V_4 VCCASWI17I VCCCLKDMI AB36 +1.05V PCH AP26 W29 /CCIO[23] VCCASW[18] AT24 W31 /CCIO[24] C250 1 2 1U/6.3V_4 W33 C508 1 2 0.1U/16V_4 AN33 VCCIOI251 VCCIOI5 +VCC DMI CCI= 70mA (10mils) AN34 AG16 +3V VCC EXP C315 1 2 0.1U/16V_4 +VCCRTCEXT N16 VCCIO[26] VCCDFTERM[1] DCPRTC +1.05V_VCCIO_ 400mA(20mils)__O+1.05V_PCH VCCIOI12 C274 2 1 0.1U/16V AG17 AH14 C321 1 2 1U/6.3V_4 VCC3 3[3] VCCIO[13] VCCDFTERM[2] VCCVRM[4] +VCCP_NAND VCCPNAND = 2 mA(10mils) VCCDETERMI: VCCIO 80mA(10mils) <u>+1.05V_PCH</u> VCCADPLLA C309 1 2 0.1U/16V_4 +1.5V RUN O-VCCVRM[2] VCCAPLLSATA AJ17 C313 2 1 1U/6.3V_4 0+1.5V_RUN /ccAFDIPLL VCCVRMI1 +3V_VCCME_SPI AF17
AF33
VCCIO[7]
VCCDIFFCLKN[1]
AG34
VCCDIFFCLKN[2]
VCCDIFFCLKN[3] +3.3V RUN +1.05V PCH VCCSPI = 10mA(10mils) VCCIOI271 VCCIOI2 C249 2 1 1U/6.3V_4 VCCSP VCCIOI31 C366 1 21U/6.3V_4 AD17 VCCIOI41 VCCSSC VCCSSC= 95mA(10mils) C294 VccDMI =0.047 A(10mils) BD82HM77-SLJ8C-MM#915664 C260 2 1 1U/6.3V_4 2 1 C331 0.1U/16V 4 1 05V PCH +VTT_VCCPCPU 1mA(10mils) V21 VCCASW[23] VCCASWI21 VCCSHSHDA= 10ma(10mile) +RTC_CELLC VCCSUSHDA VCCRTC<1mA(10mils) C293 1 2 0.1U/16V_4 +1.05V_PCH C C240 C237 1U/6.3V 4 10U/6.3V 8 Closed VCCADPLLA C236 10U/6.3V_8 Closed VCCADPLLB **Quanta Computer Inc.** PROJECT : JWA Panther Point 7/7

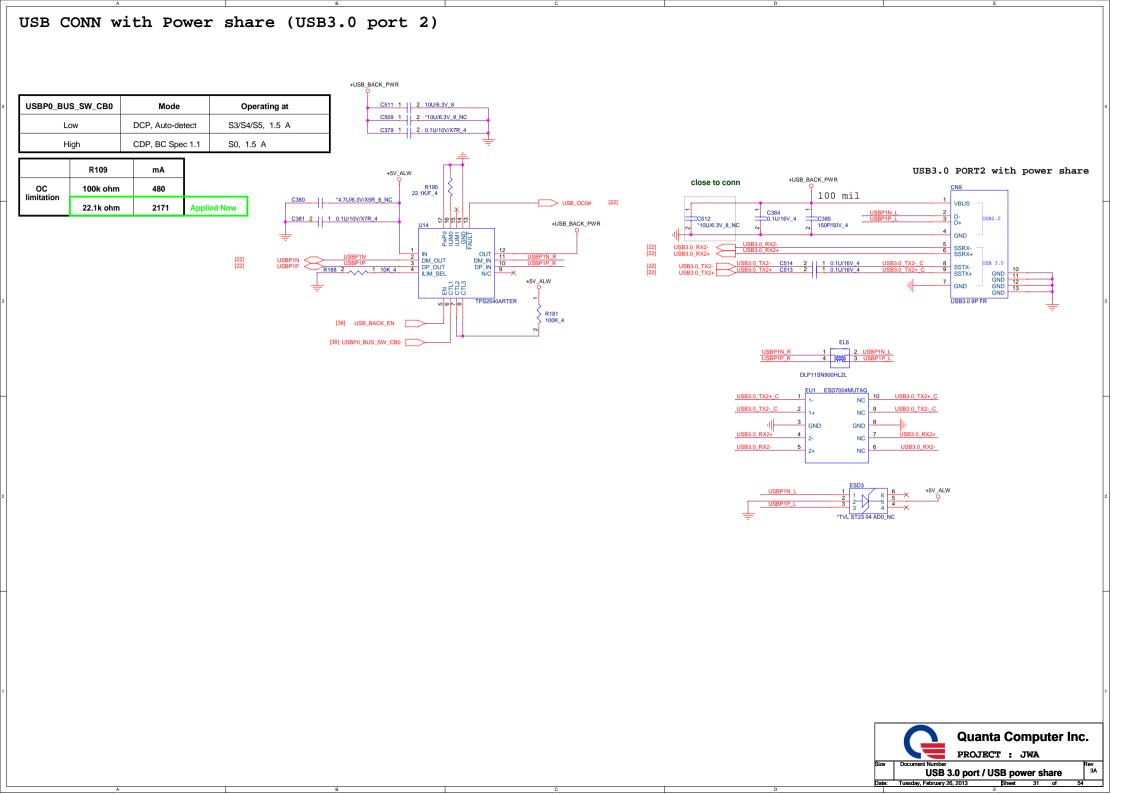


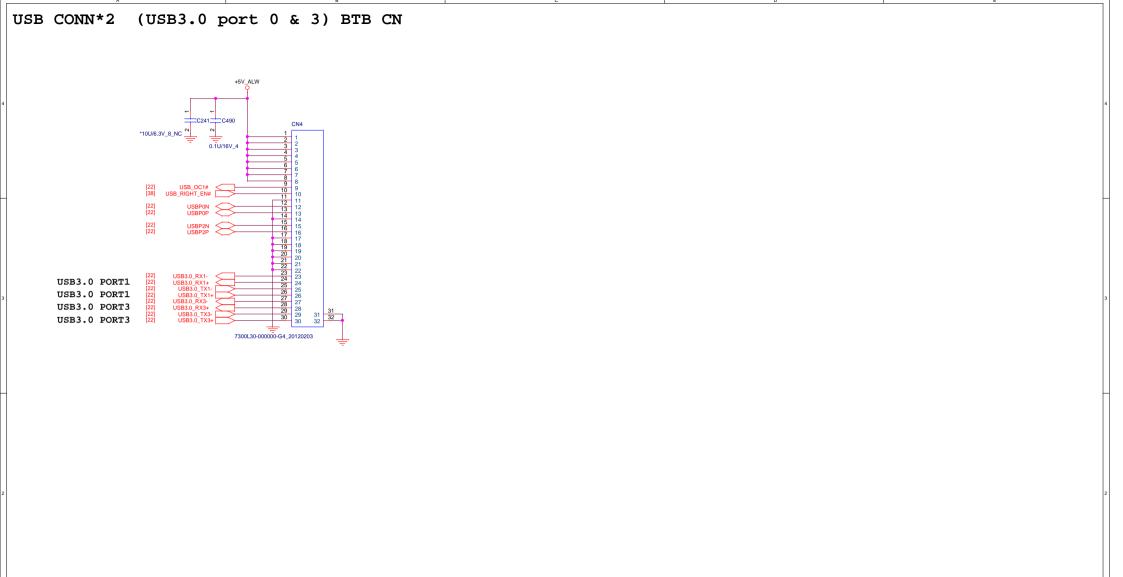


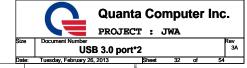


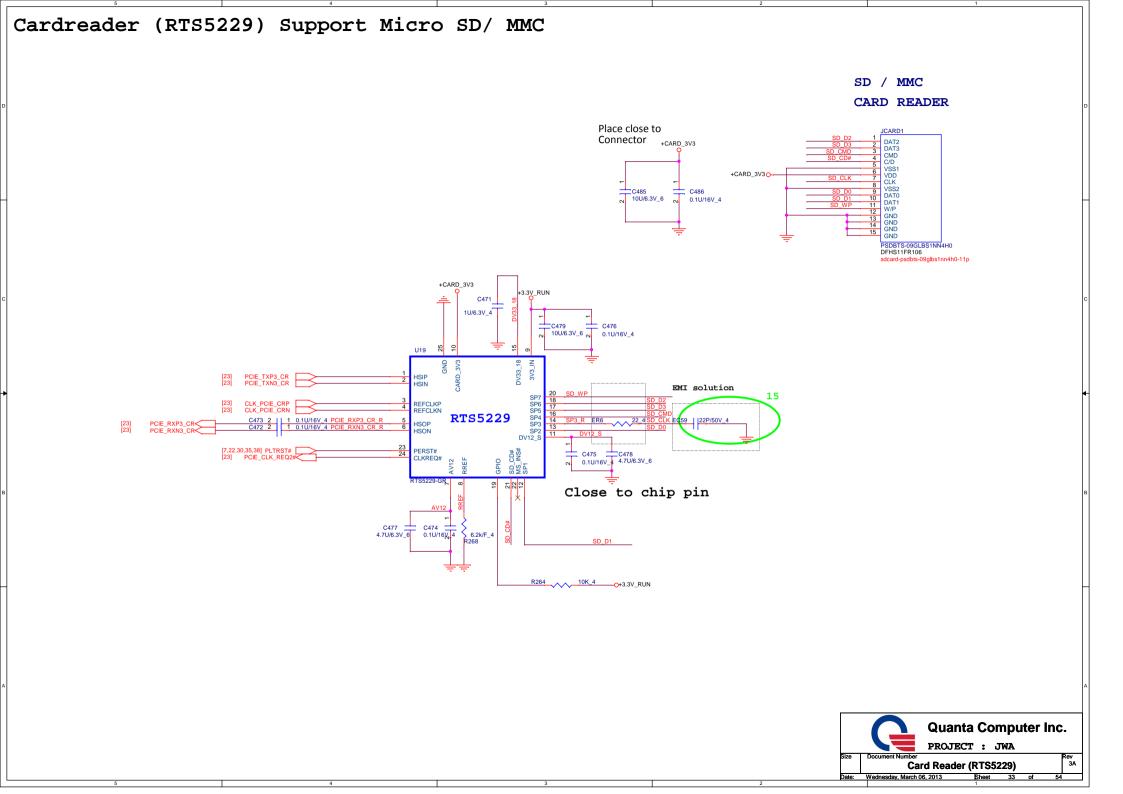


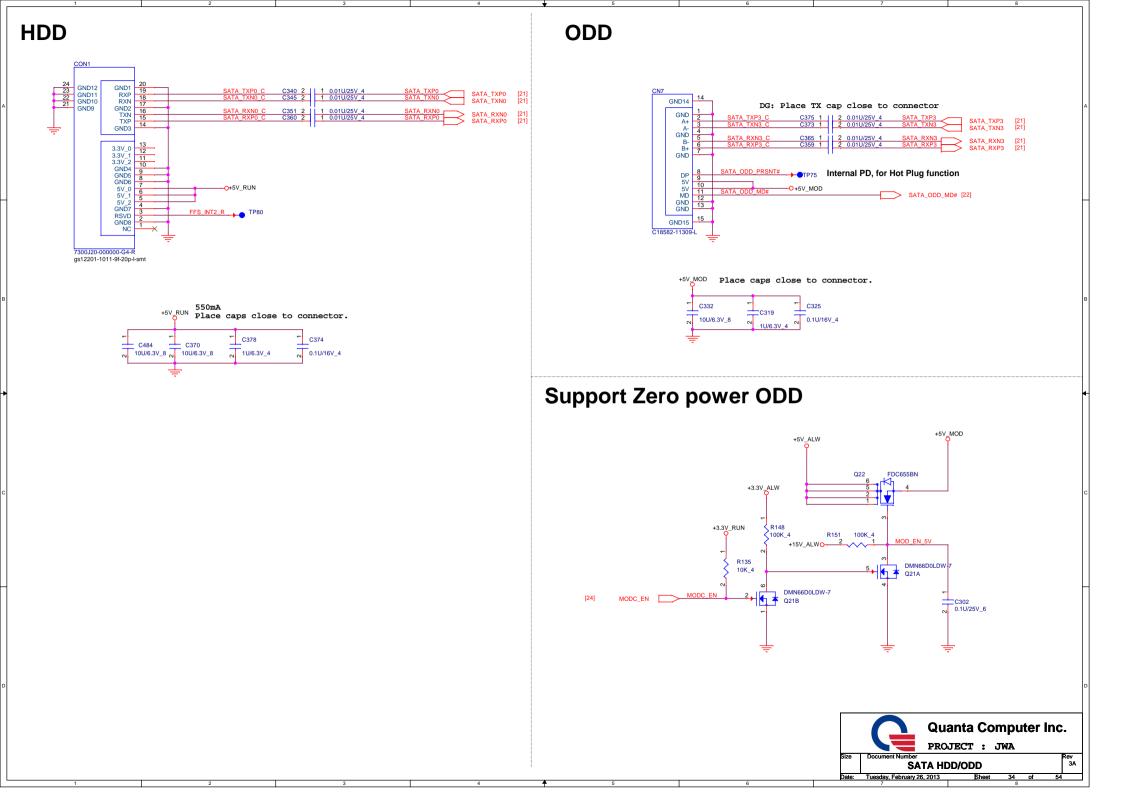


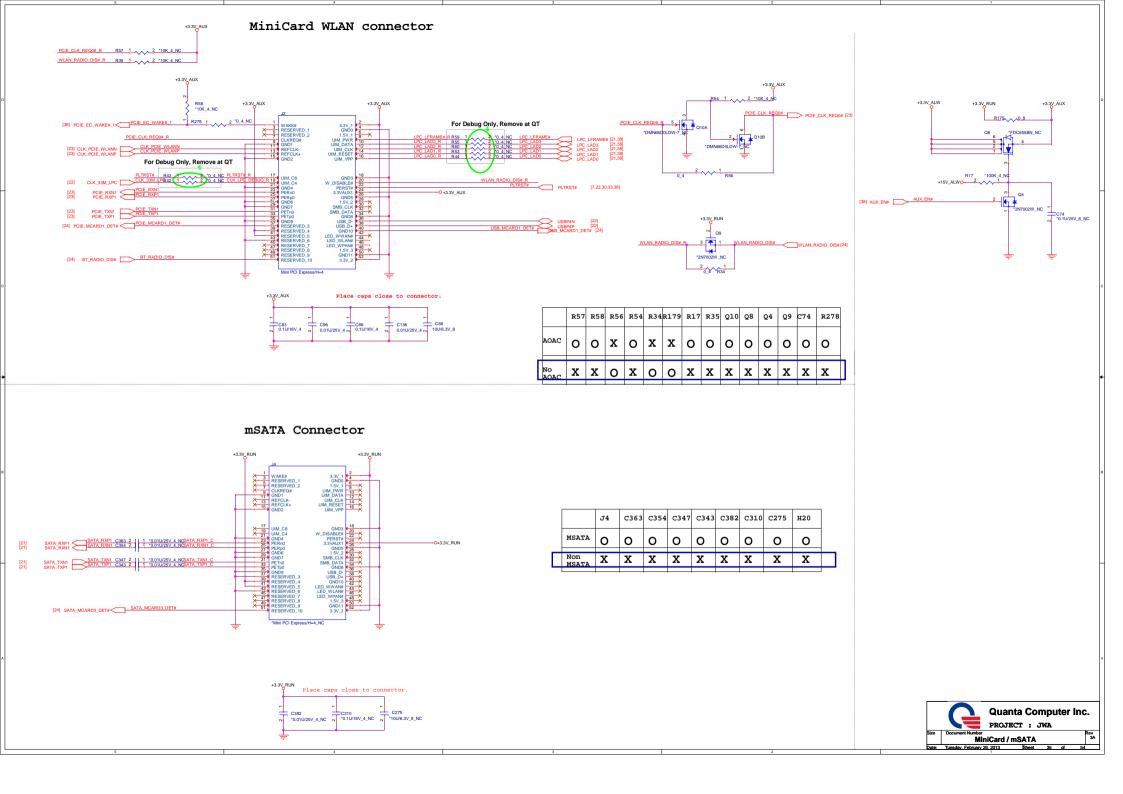


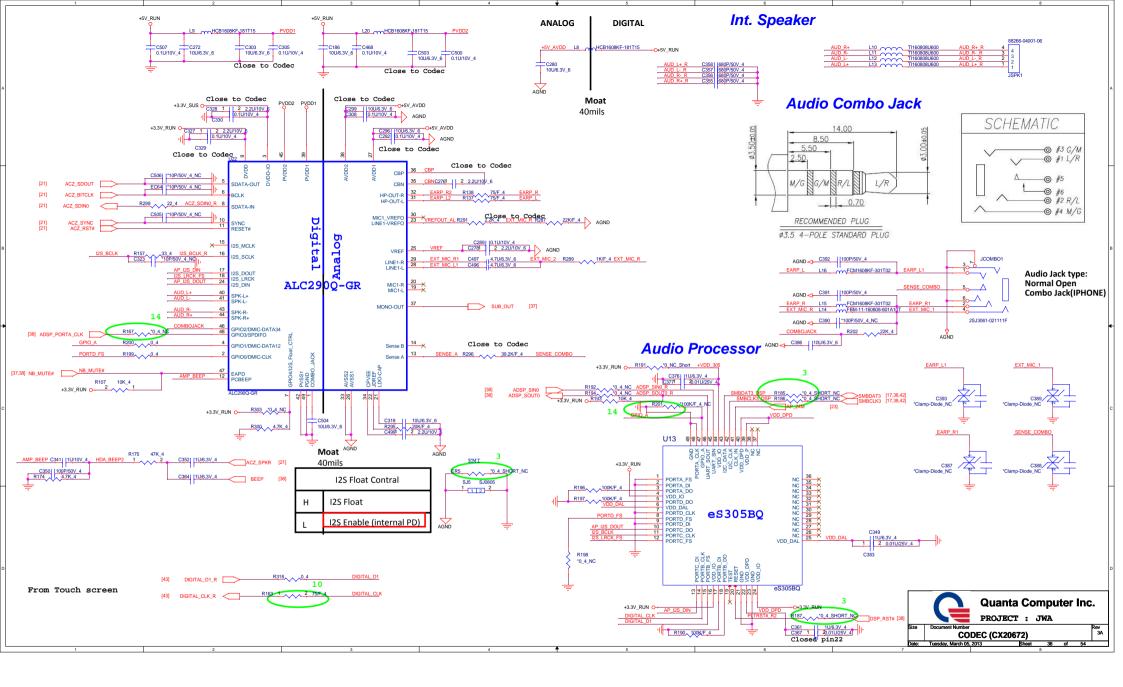


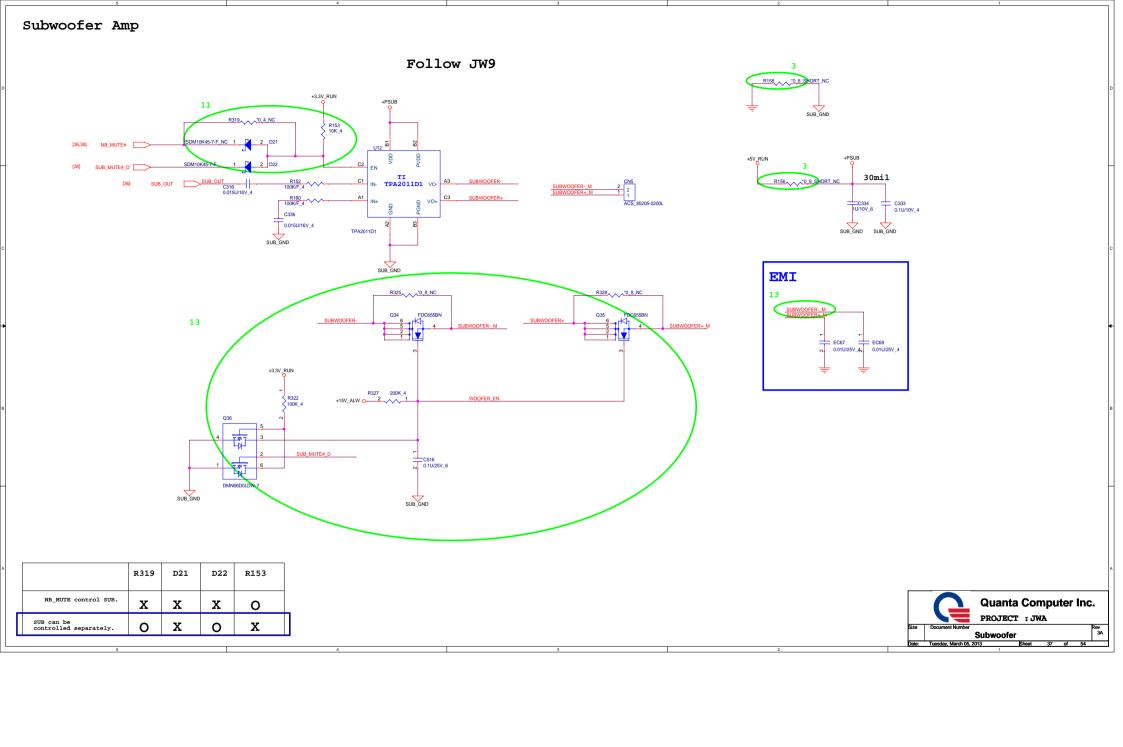


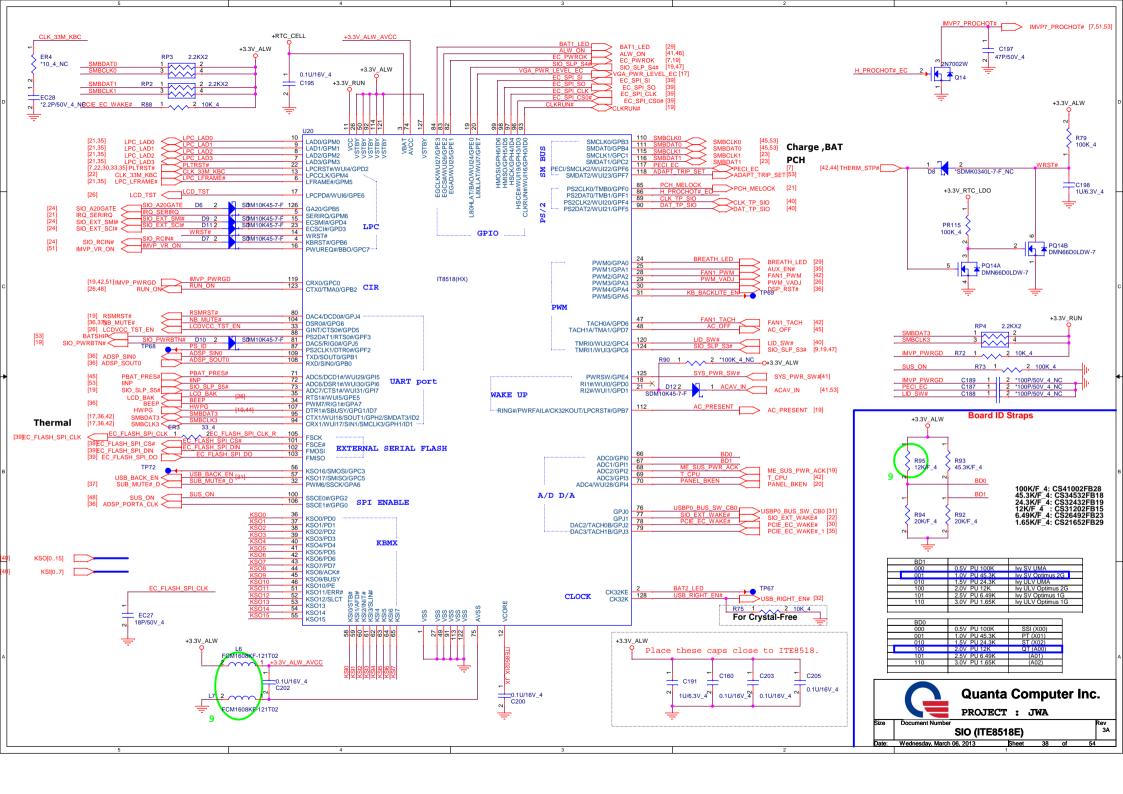




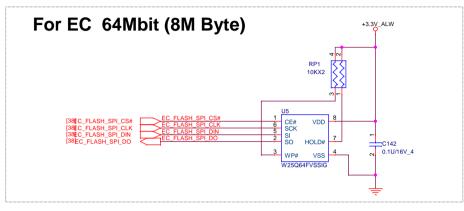


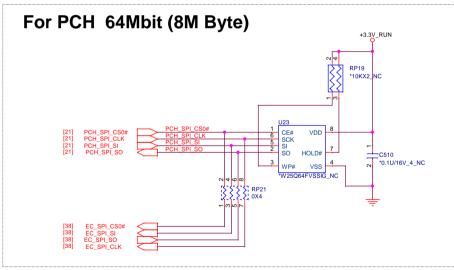




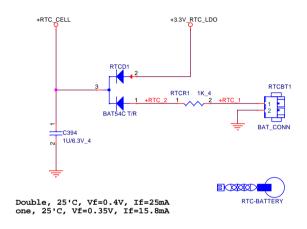


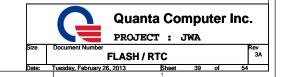
FLASH / RTC



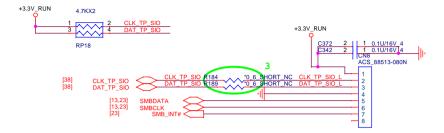


RTC



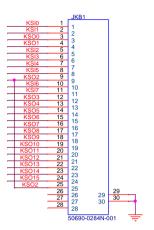


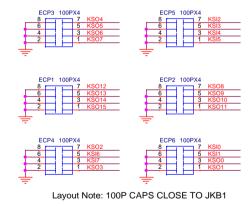
TP CONNECTOR



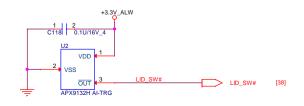
KB CONN

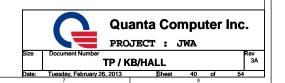
KSO[0..15] <



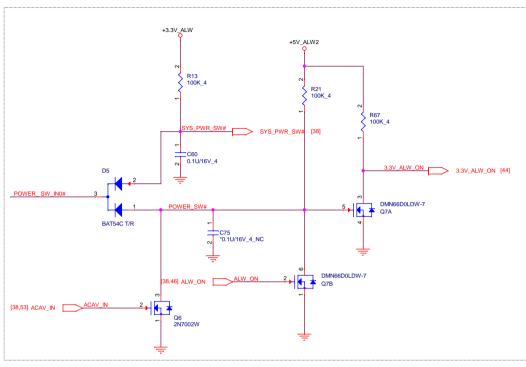


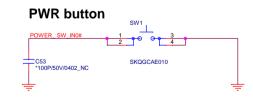
HALL Sensor

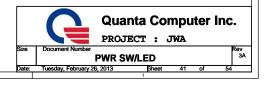


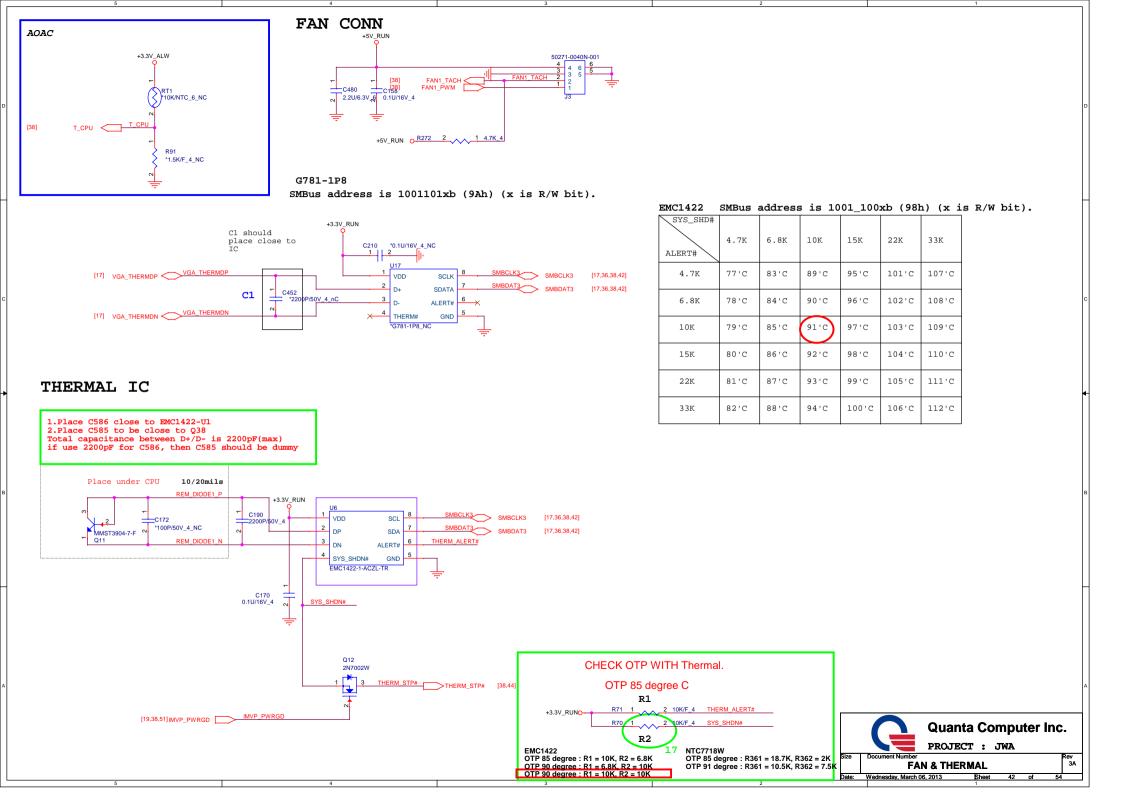


3V ALW ON POWER LOGIC









Touch Screen

