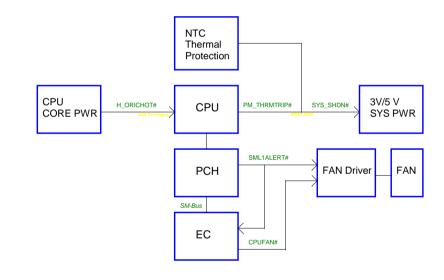
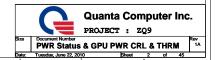
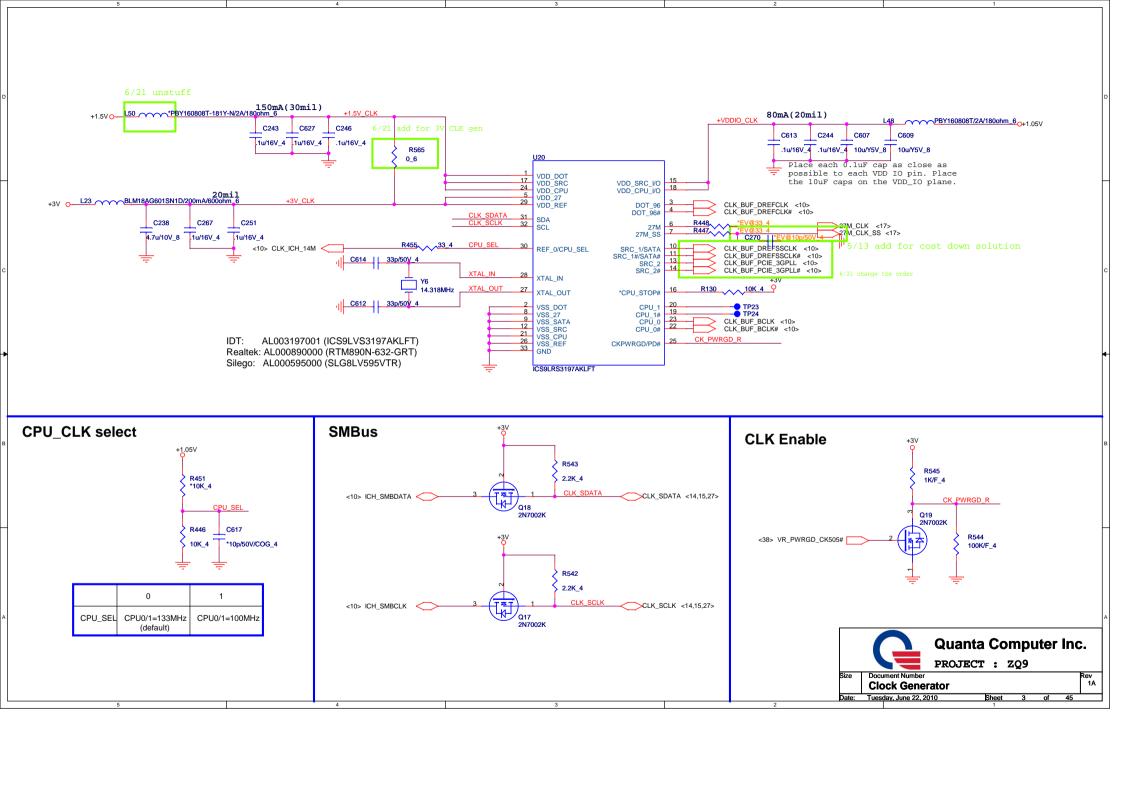


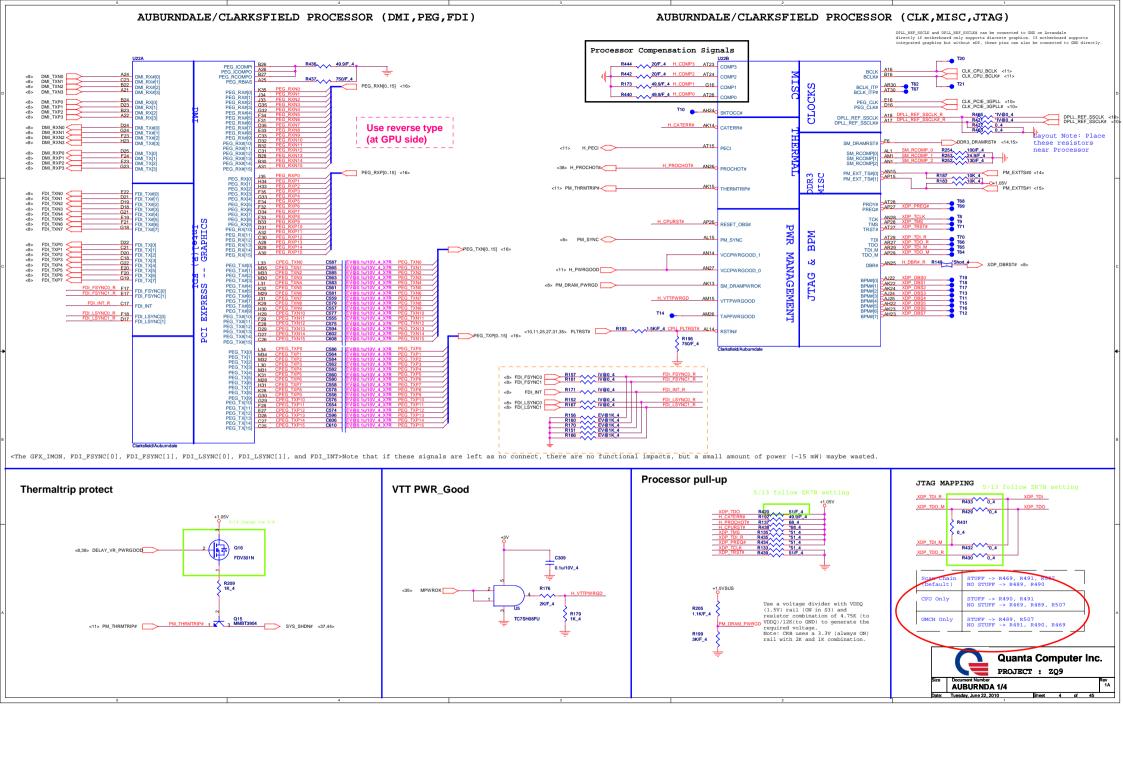
POWER PLANE	VOLTAGE	DESCRIPTION	CONTROL SIGNAL	ACTIVE IN
VIN	+10V~+19V	MAIN POWER	ALWAYS	ALWAYS
+VCCRTC	+3V~+3.3V	RTC POWER	ALWAYS	ALWAYS
+3VPCU	+3.3V	EC POWER	ALWAYS	ALWAYS
+5VPCU	+5V	CHARGE POWER	ALWAYS	ALWAYS
+15V	+15V	CHARGE PUMP POWER	ALWAYS	ALWAYS
+3V_S5	+3.3V	LAN/BT/CIR POWER	S5_ON	S0-S5
+5V_S5	+5V	USB POWER	S5_ON	S0-S5
+5V	+5V	HDD/ODD/Codec/TP/CRT/HDMI POWER	MAINON	S0
+3V	+3.3V	PCH/GPU/Peripheral component POWER	MAINON	S0
+1.5VSUS	+1.5V	CPU/SODIMM CORE POWER	SUSON	S0-S3
+0.75V_DDR_VTT	+0.75V	SODIMM Termination POWER	MAINON	S0
+VGFX_AXG	variation	Internal GPU POWER	GFX_ON	S0
+1.8V	+1.8V	CPU/PCH/Braidwood POWER	MAINON	S0
+1.5V	+1.5V	MINI CARD/NEW CARD POWER	MAINON	S0
+1.1V_VTT	+1.05V or +1.1V	CPU VTT POWER	MAINON	S0
+1.05V	+1.05V	PCH CORE POWER	MAINON	S0
+VCC_CORE	variation	CPU CORE POWER	VRON	S0
LCDVCC	+3.3V	LCD POWER	LVDS_VDDEN	S0
+5V_GPU	+5V	SWITCHABLE PWM IC POWER	dGPU_PWR_EN#	Discrete enable
+GPU_CORE	+0.9V~+1.1V	GPU CORE POWER	+3V_D	Discrete enabl
+GPU_IO	+0.9V~+1.1V	GPU I/O POWER	PG_GPUIO_EN	Discrete enable
+1.5V_GPU	+1.5V	VRAM CORE POWER	PG_1.5V_EN	Discrete enable
+1.8V_GPU	+1.8V	GPU_CRE/LVDS/PLL POWER	+1.5V_GPU	Discrete enabl
+1V	+1V	DP/PEG POWER	PG 1V EN	Discrete enabl

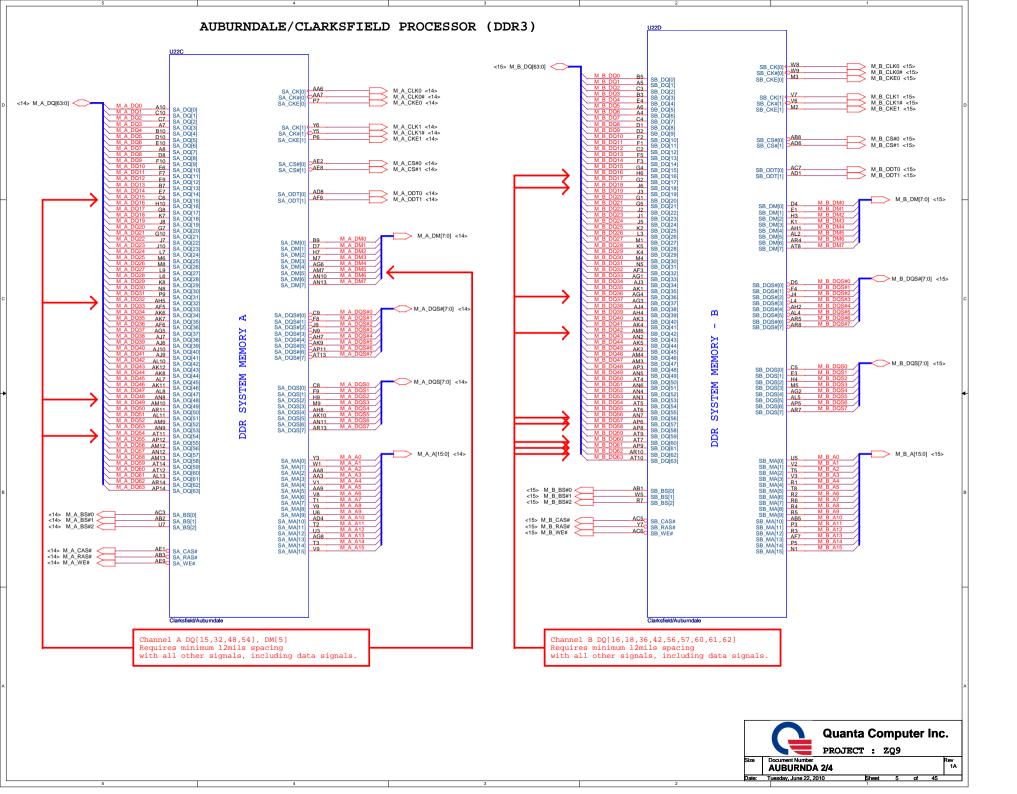
Thermal Follow Chart

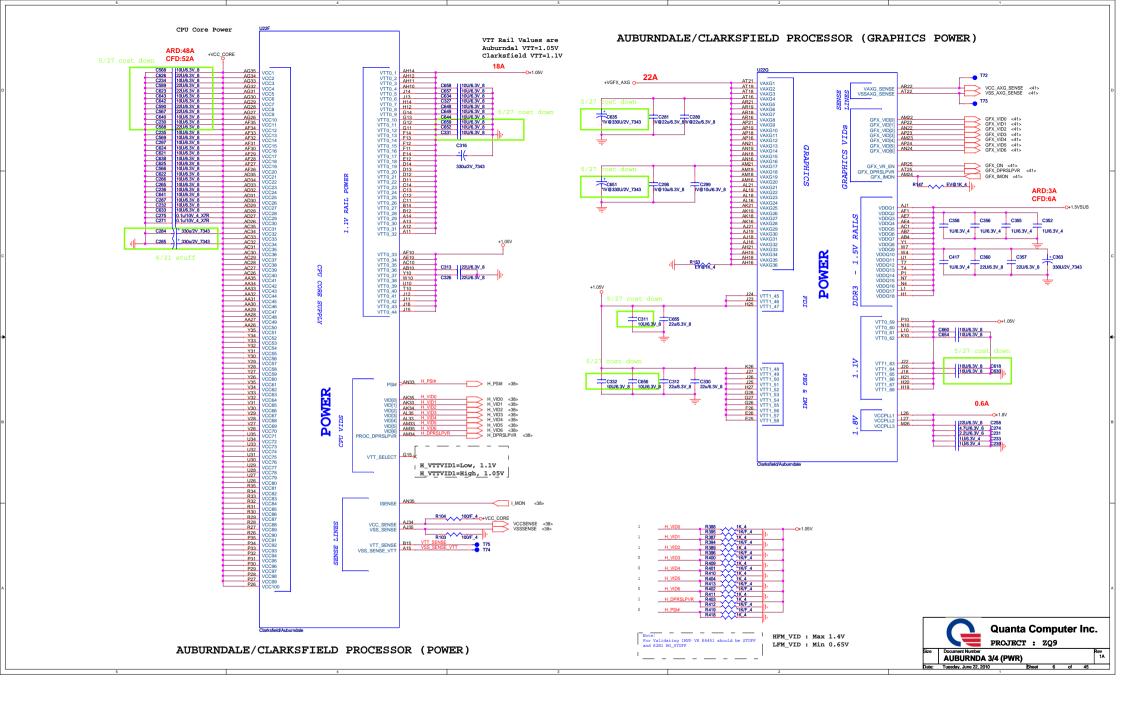


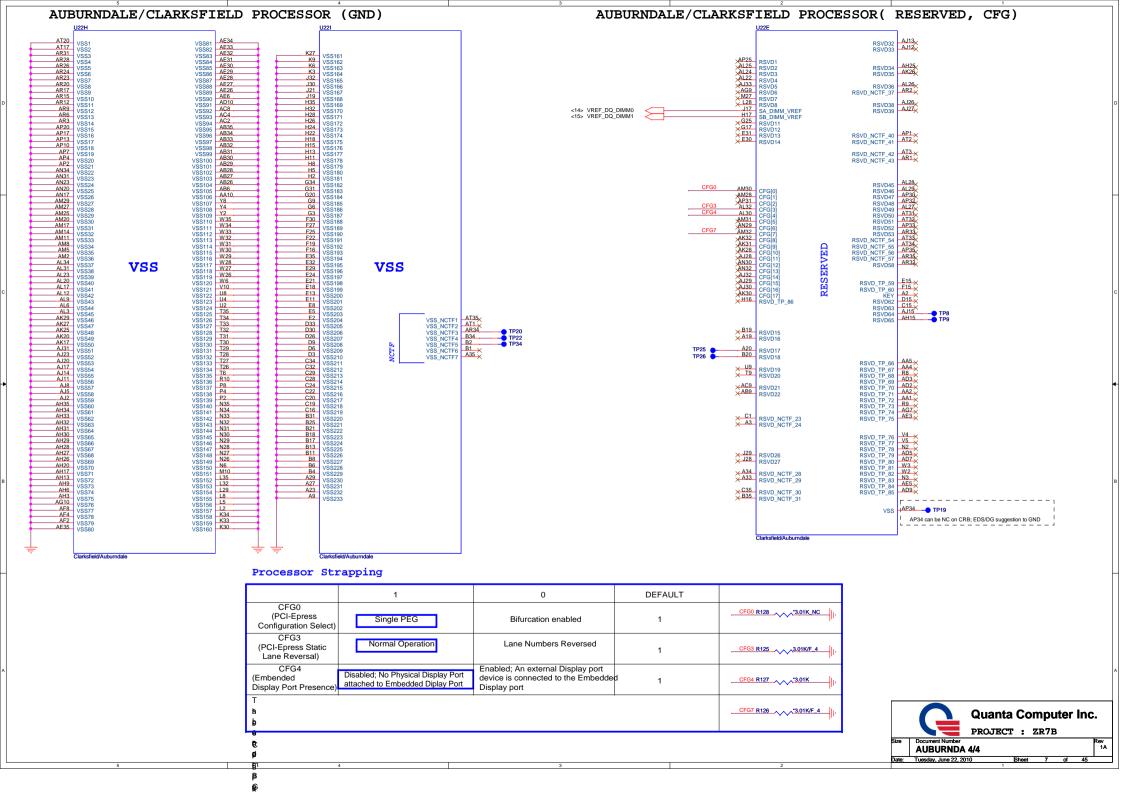


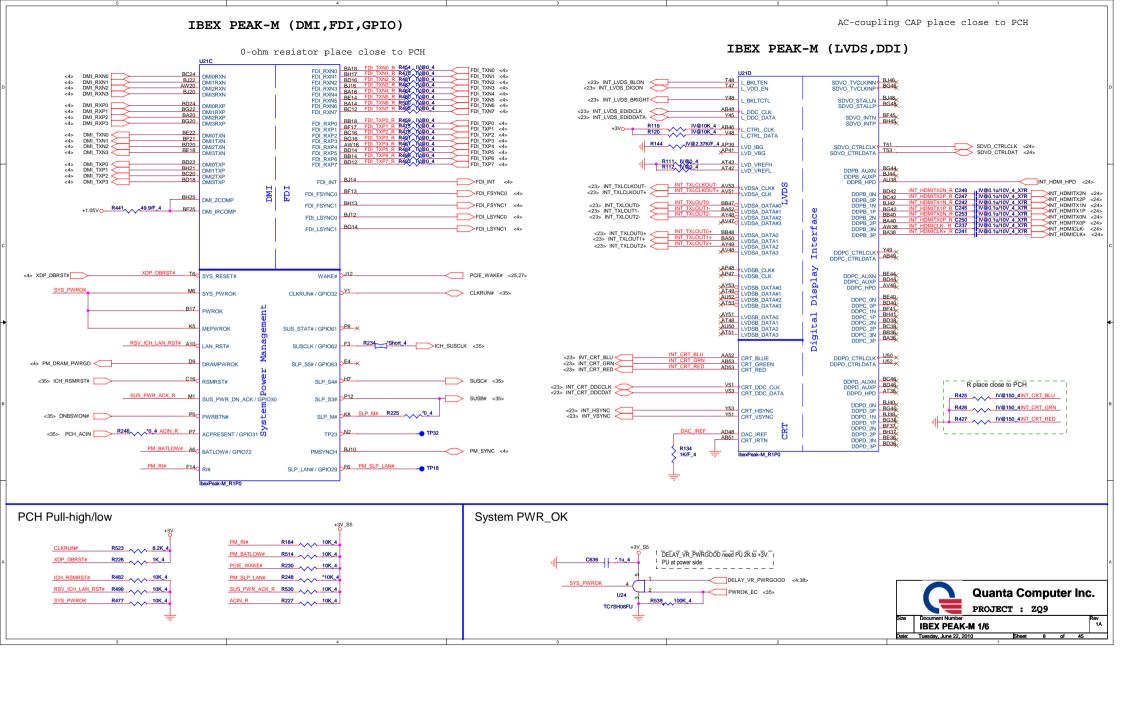


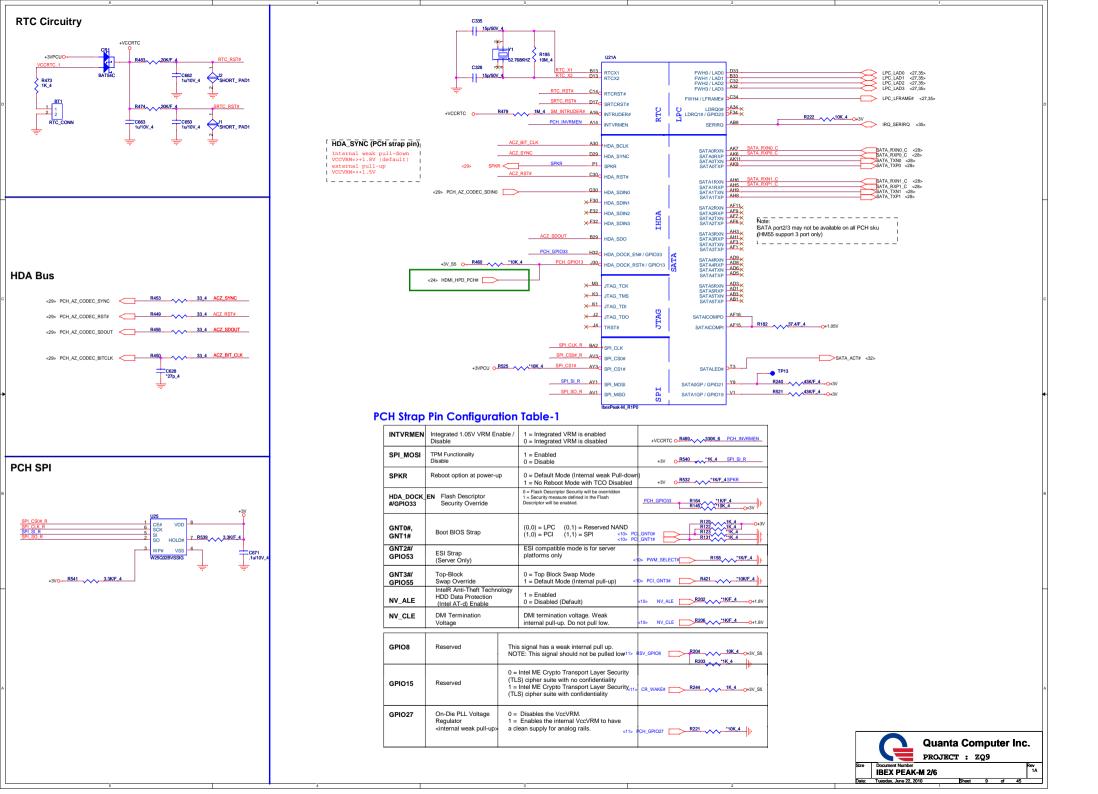


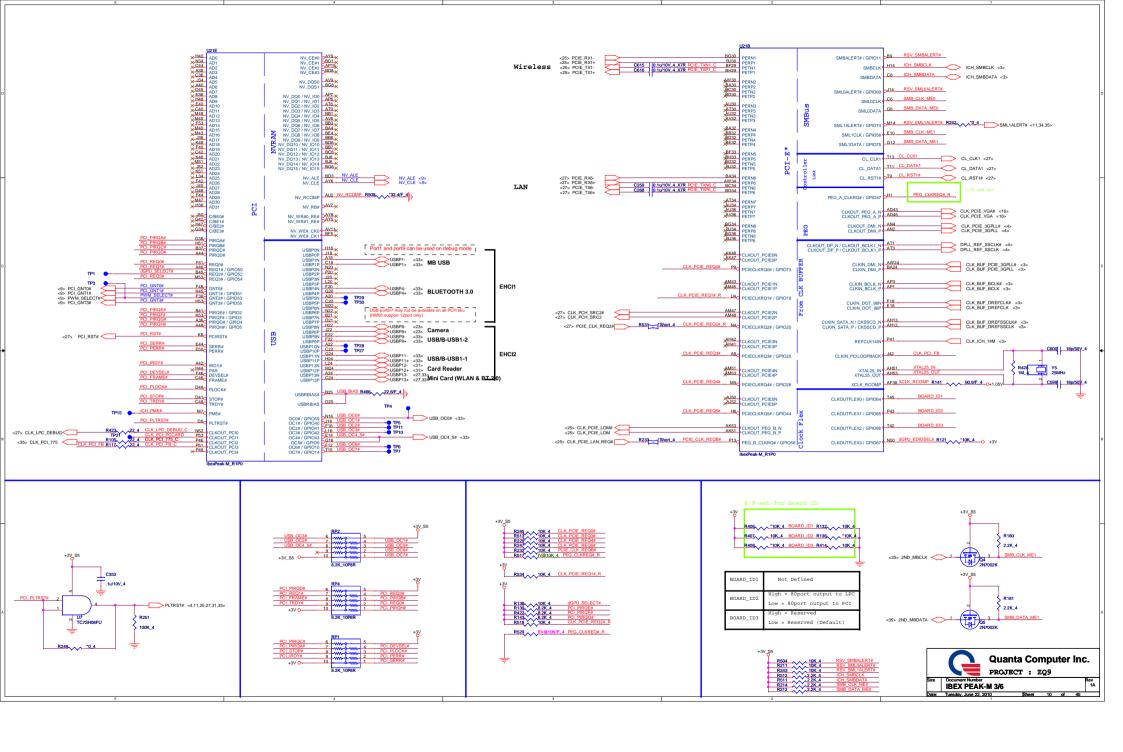


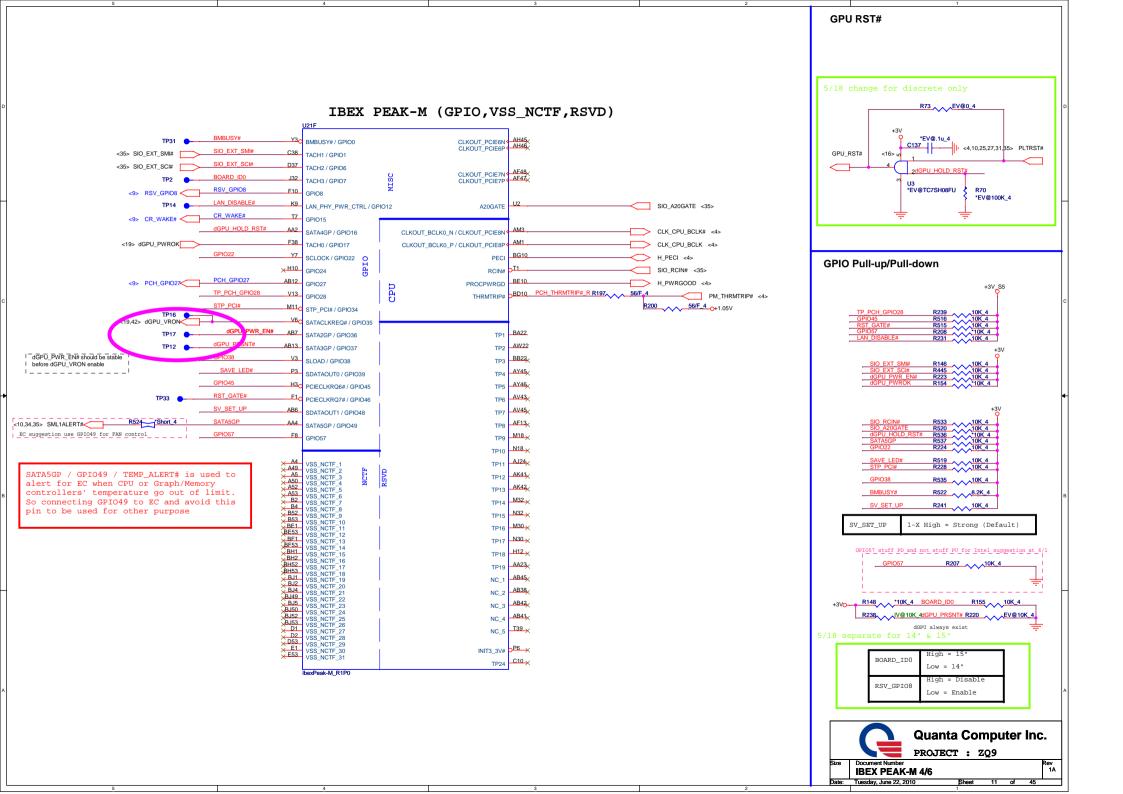


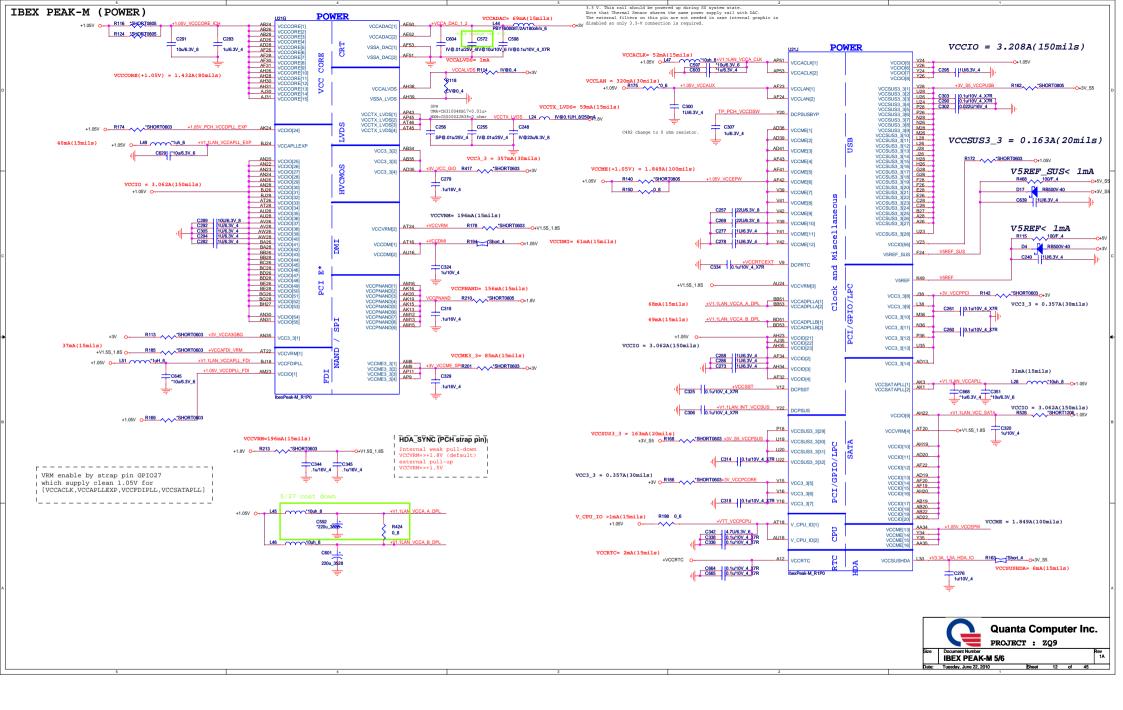










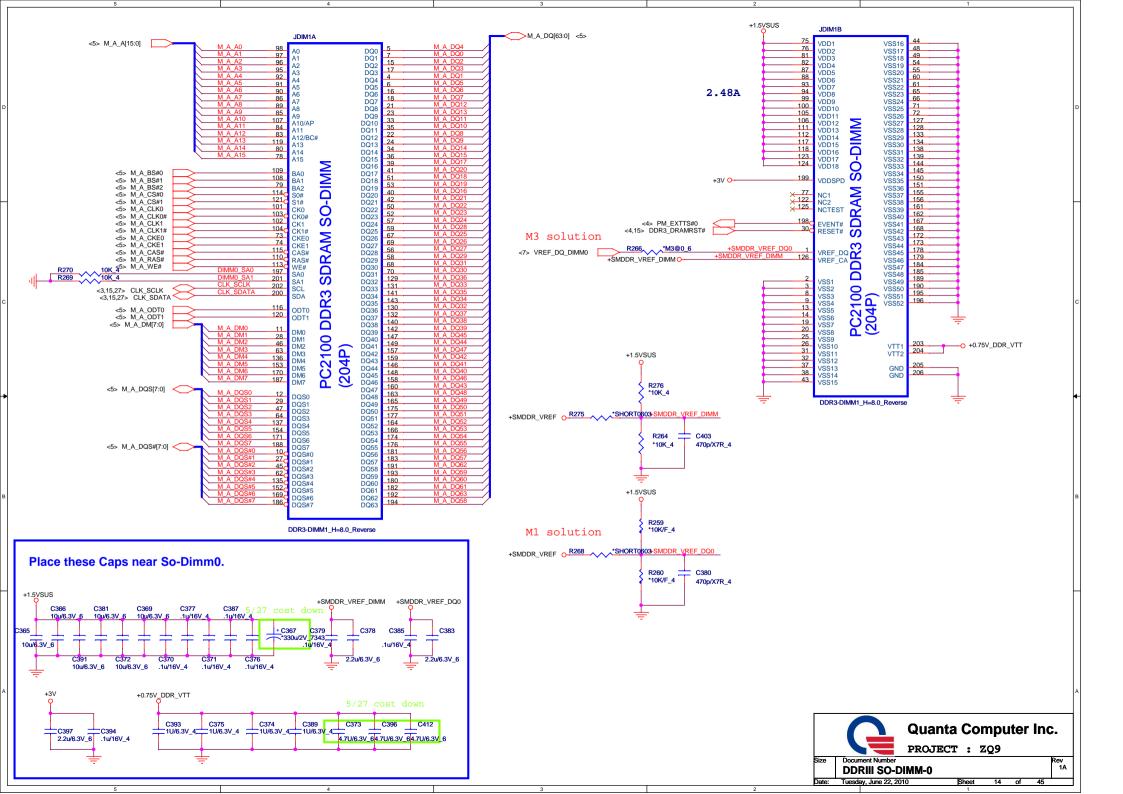


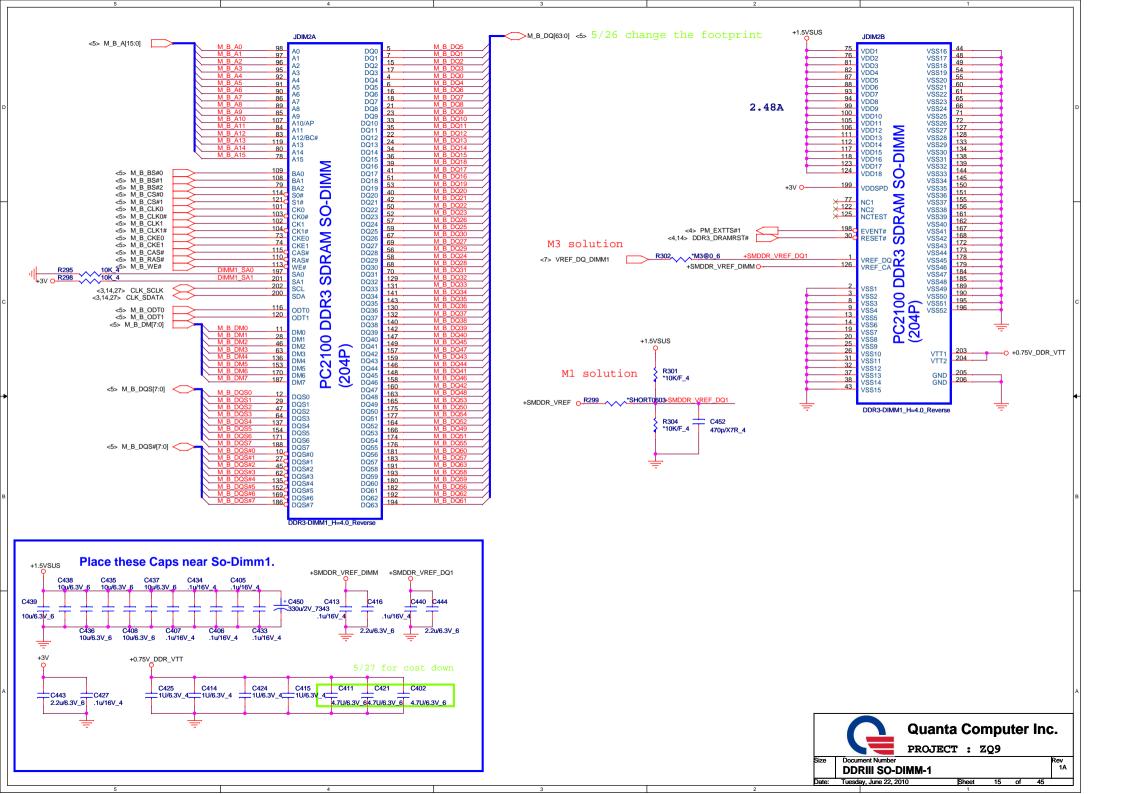
AY7 VSS[159]

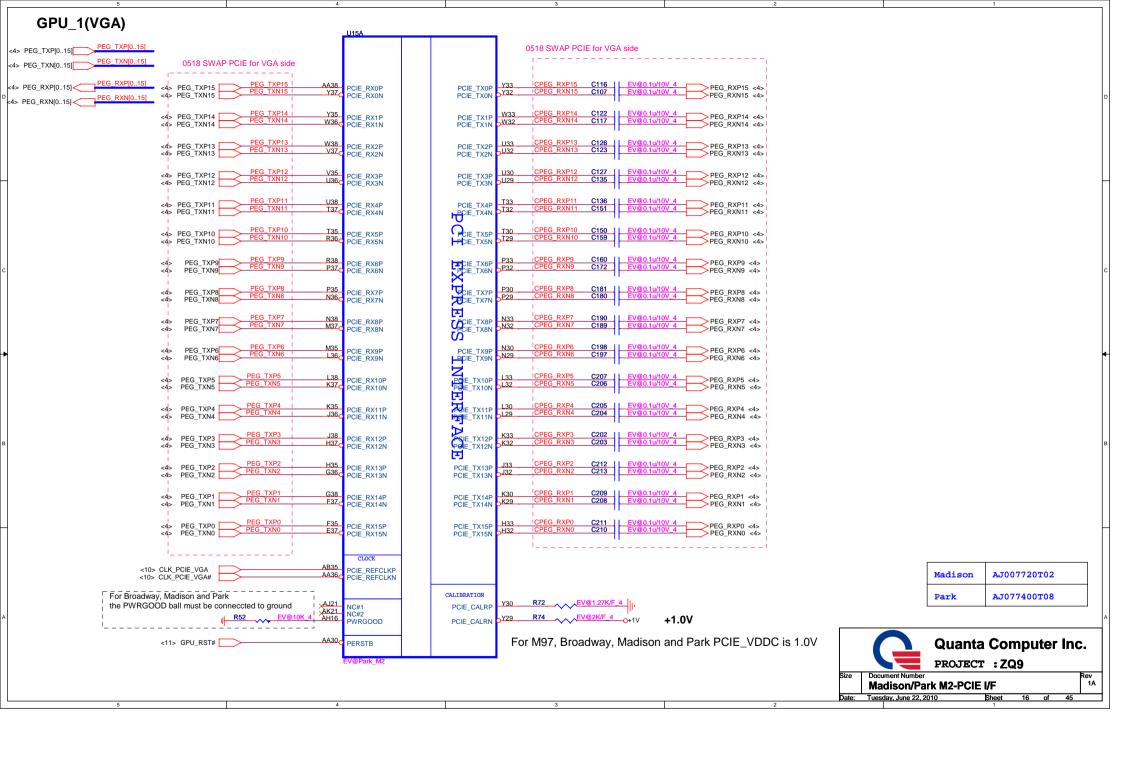
B11 VSS[160]

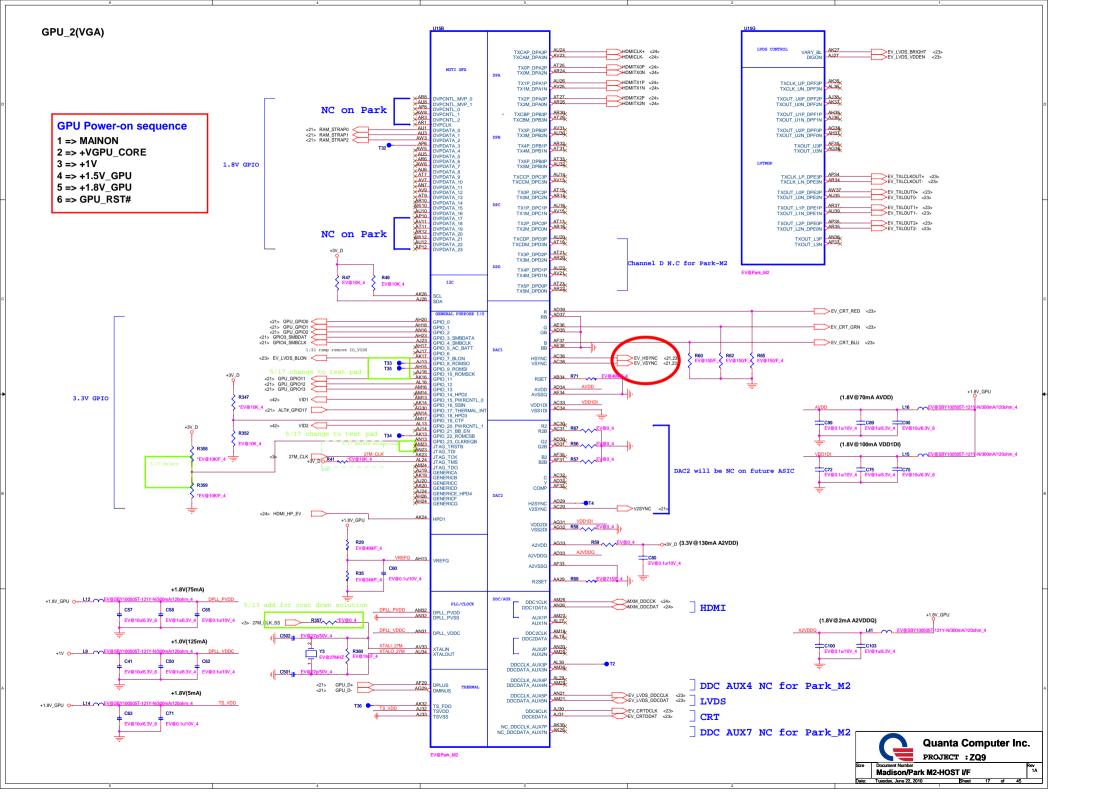
VSS[161]

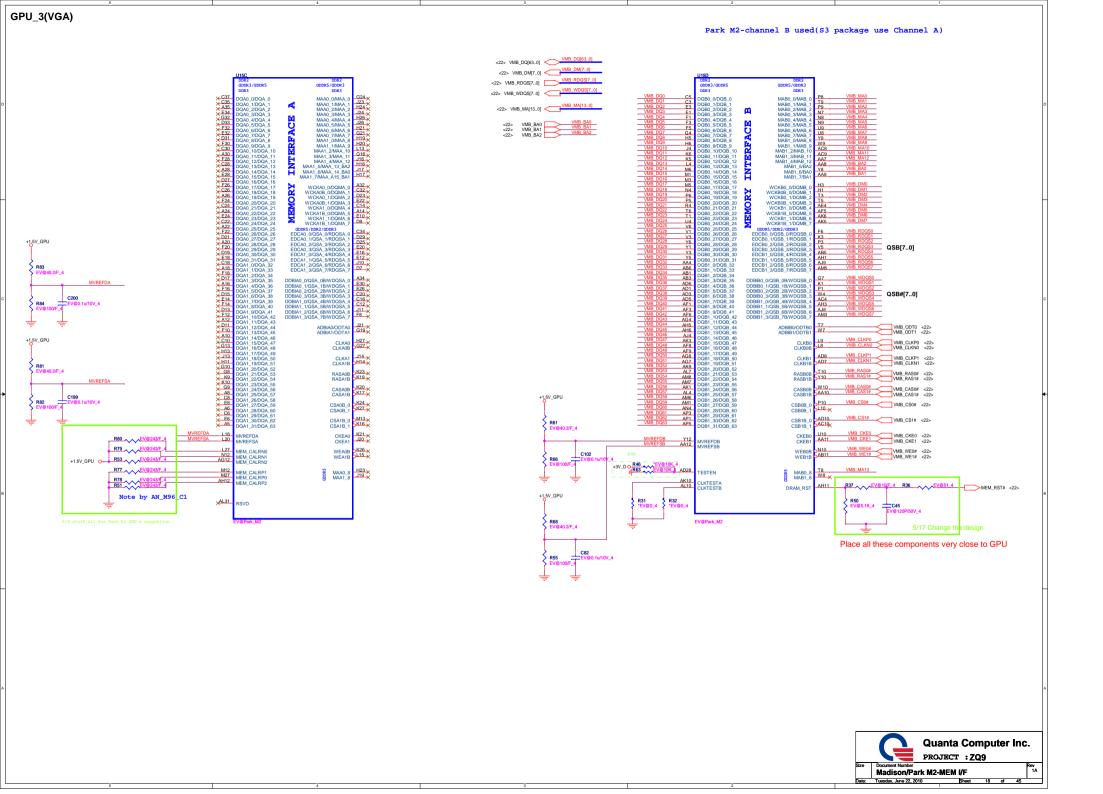
VSS[162] IBEX PEAK-M (GND) VSS[259] VSS[260] VSS[261] VSS[262] H5 J24 K11 K43 K47 B23 B31 B35 VSS[262] K43 VSS[263] K47 VSS[264] K7 VSS[266] L14 VSS[267] L2 VSS[268] L2 VSS[269] VSS[270] L32 VSS[270] L36 VSS[271] L36 VSS[165 VSS[166 VSS[167 VSS[168 B39 B43 B47 B7 BG12 VSS[169 VSS[170 VSS[171 VSS[171 VSS[172 VSS[174 VSS[175 VSS[176 VSS[177 VSS[181 VSS[182 VSS[182 VSS[183 VSS[184 VSS[186 BB12 BB16 BB20 VSS[271] L36 VSS[271] L40 VSS[272] L40 VSS[273] M12 VSS[274] M16 VSS[276] M20 VSS[277] M38 VSS[277] M38 VSS[279] M38 VSS[279] M42 VSS[280] M42 VSS[281] M49 VSS[282] M49 VSS[271] VSS[272] VSS[273] VSS[274] U21H AB16 VSSI01 BB24 BB30 VSS[1] VSS[2] VSS[80] VSS[81] AK31 AK32 AK34 AK35 AA20 BB34 AA22 AM19 BB38 BB42 BB49 AA24 VSS[84] AA26 AA28 BB5 BC10 AA30 AA31 BC14 BC18 VSS[8] VSS[9] VSS[1] VSS[1] VSS[87] VSS[88] VSS[89] VSS[90] AA32 BC2 AB11 BC22 AB15 AB23 AB30 BC32 BC36 BC40 VSS[91] VSS[92] VSS[188 VSS[190 VSS[191 VSS[192 VSS[193 VSS[194 VSS[196 VSS[197 VSS[198 VSS[198 VSS[198 VSS[200 VSS[200 AB31 AB32 BC44 BC52 VSS[95] VSS[96] VSS[97] VSS[98] AB39 AB43 BH9 BD48 VSS[17 VSS[18 VSS[19 VSS[291] VSS[292] VSS[293] VSS[292] P45 VSS[293] P47 VSS[294] R2 VSS[296] R52 VSS[296] T12 VSS[297] T12 VSS[298] T41 AB47 AB5 AB8 AC2 BD49 BD49 BD5 BE12 VSS[98] VSS[99] VSS[100] VSS[101] VSS[102] VSS[103] VSS[104] VSS[105] VSS[106] VSS[20 VSS[21 BF16 VSS[296] VSS[297] VSS[298] VSS[299] VSS[300] VSS[301] VSS[22 VSS[23 VSS[24 AC52 AD11 BE20 BE24 AD12 AD16 BE30 BE34 T46 T49 T5 T8 U30 U31 AD23 BE38 AD30 AD31 AD32 BE42 BE46 BE48 VSS[107] VSS[108] VSS[302] VSS[303] VSS[202 VSS[203 VSS[204 VSS[206 VSS[206 VSS[206 VSS[2107 VSS[211 VSS[211 VSS[212 VSS[213 VSS[215 VSS[217 VSS[217 VSS[217 VSS[217 VSS[217 VSS[217 VSS[100] VSS[110] VSS[111] VSS[112] VSS[304] BE50 BE6 BE8 BF3 BF49 U32 U34 P38 V11 AD34 AU22 VSS1(109) ALIZO
VSS1(101) ALIZO
VSS1(11) AV22
VSS1(11) AV22
VSS1(12) AM49
VSS1(13) AM49
VSS1(14) AM7
VSS1(16) BB10
VSS1(16) BB10
VSS1(16) BB10
VSS1(17) AM50
VSS1(17) AM50
VSS1(18) AM50 VSS[305] VSS[306] AD42 AD46 AD49 VSS[307] VSS[34 VSS[35 VSS[36 VSS[308] VSS[309] VSS[310] P16 AD7 AE2 AE4 BF51 BG18 BG24 VSS[37 VSS[38 AF12 Y13 AH49 BG4 BG50 BH11 VSSI41 VSS[315] VSS[316] VSS[317] VSS[318] VSS[319] VSS[315] AU4 AF35 BH15 BH19 VSS[42 VSS[43 VSS[44 AP13 BH23 AN34 AF45 AF46 BH31 BH35 VSS[218 VSS[219 VSS[220 VSS[221 VSS[222 VSS[223 VSS[224 VSS[225 VSS[226 VSS[45 VSS[46 VSS[47 VSS[48 VSS[49 VSS[319] VSS[320] V45 V46 BH39 VSS[321] VSS[322] VSS[323] AF49 AF5 BH43 BH47 V47 V49 AF8 AG2 AG52 AH11 AH15 BH7 C12 C50 D51 E12 E16 VSS[324] VSS[325] VSS[326] VSS[325] VSS[326] VSS[327] VSS[328] VSS[329] VSS[226 VSS[227 VSS[228 VSS[230 VSS[231 VSS[232 VSS[233 VSS[234 AH16 E16 E20 E24 E30 E34 E38 E42 E46 E48 VSS[329] AH24 AH32 Y12 Y15 VSS[330] VSS[331] VSS[332] AV18 AH43 AH47 Y19 VSS[333] VSS[334] Y28 Y30 Y31 AH7 AJ19 VSS[140] VSS[141] VSS[142] VSS[143] VSS[144] VSS[335] VSS[336] VSS[235 VSS[236 VSS[237 VSS[238 VSS[240 VSS[241 VSS[244 VSS[245 VSS[245 VSS[247 VSS[247 VSS[248 VSS[258 VSS[258] VSS[258 A.I2 Y32 VSS[337] VSS[338] VSS[339] E48 E6 E8 F49 F5 G10 G14 G18 G2 G22 AJ20 AJ22 AJ23 AV42 AV46 AV49 Y38 Y43 VSS[144] VSS[145] VSS[146] VSS[147] VSS[148] VSS[148] AW14 VSS[149] AW2 VSS[150] BW2 VSS[151] AW2 Y46 VSS[340] AJ26 AJ28 AJ32 AJ34 AT5 VSS[67] VSS[68] VSS[69] VSS[341] VSS[342] VSS[343] Y8 P24 T43 AD51 AT8 VSS[344] VSS[345] A.14 VSS[151] VSS[152] VSS[153] VSS[346] VSS[347] G32 G36 G40 G44 G52 AK12 AM41 AW32 AW36 VSS[153] AW40 VSS[154] AW40 VSS[155] AW52 VSS[156] AY11 VSSI74 VSS[348] VSS[348] VSS[349] VSS[350] VSS[351] VSS[351] VSS[353] VSS[3534] AN19 AK26 AK22 VSS[75 VSS[76 VSS[77 VSS[156] AY43 VSS[157] AY47 AK23 AF39 H16 H20 VSS[251 VSS[252 VSS[253 VSS[254 VSS[255 VSS[256 VSS[257 AK28 VSS[354] IbexPeak-M R1P0 H30 H34 AK45 AK39 VSS[355] VSS[356] H38 AV14 IbexPeak-M_R1P0 **Quanta Computer Inc.** PROJECT : ZQ9 Rev 1A **IBEX PEAK-M 6/6** Tuesday, June 22, 2010

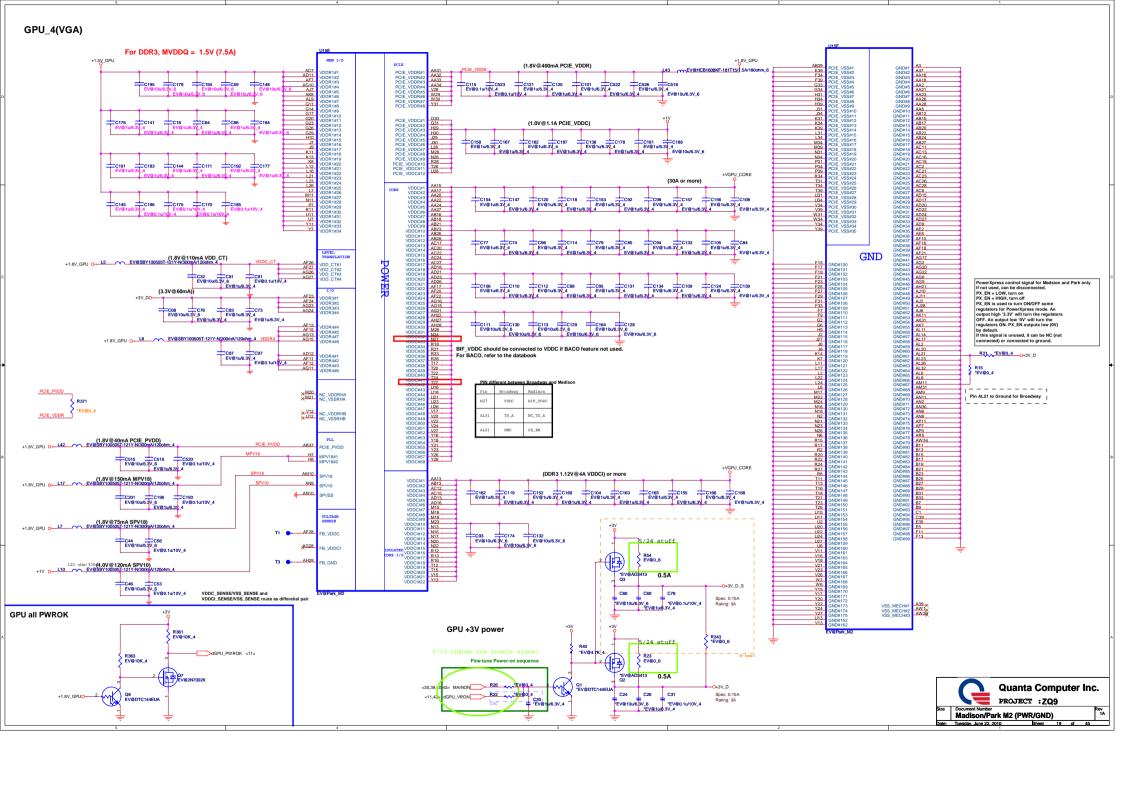


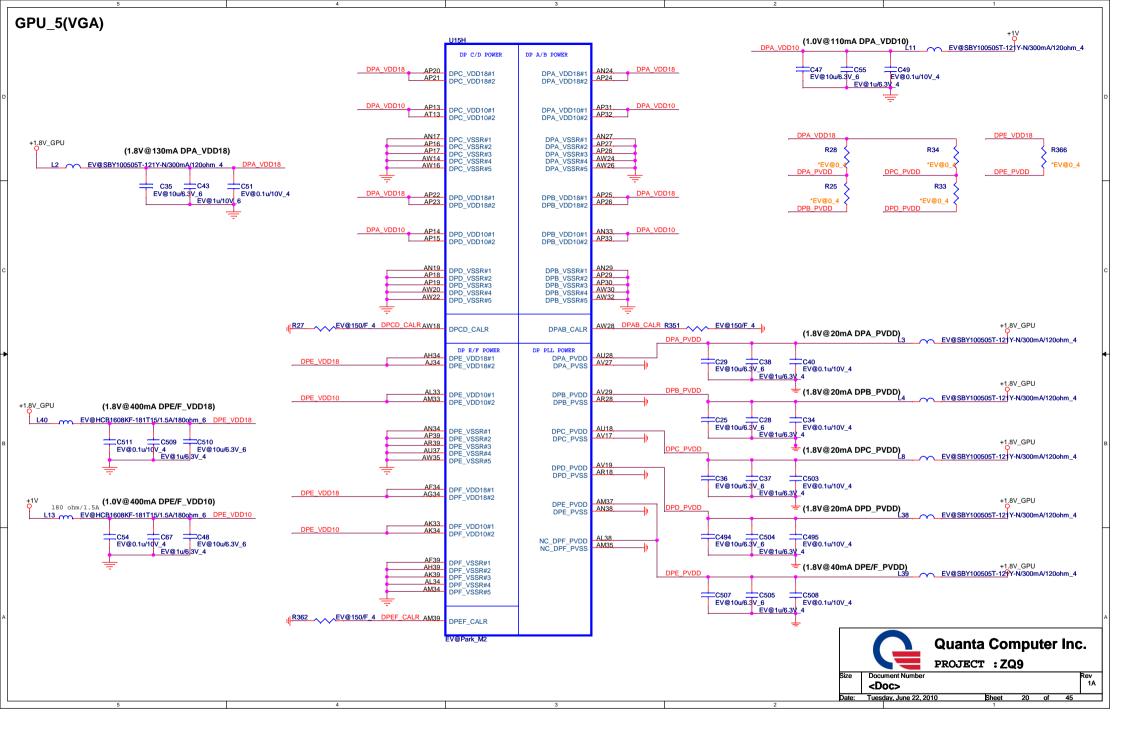


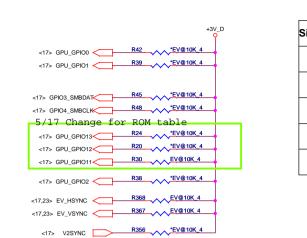












EEPROM(VGA) 5/17 delete EEPROM

PIN STRAPS(VGA)

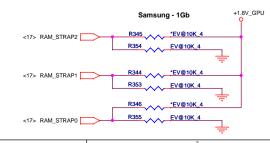
ize of the primary memory apertures	GPIO[13:11]
128 MB	000
256MB	001
64 MB	010
32 MB	011
More than 512 MB	Not Supporte

	CONFIGURA	ATION STRAPS		
		ESE STRAPS AND IF THESE GPIOS ARE USED, CT DURING RESET		
STRAPS	PIN	DESCRIPTION OF DEFAULT SETTINGS	DEFAULT	REMARK
TX_PWRS_ENB	GPIO0	0 = 50% TX OUTPUT SWING 1 = FULL TX OUTPUT SWING	0	
TX_DEEMPH_EN	GPIO1	PCIE TRANSMITTER DE-EMPHASIS ENABLED 0 = TX DE-EMPHASIS DISABLED 1 = TX DE-EMPHASIS ENABLED	0	
BIOS_ROM_EN	GPIO_22_ROMCSB	Enable external BIOS ROM device 0 - Disable external BIOS ROM device 1 - Enable external BIOS ROM device	0	
ROMIDCFG[2:0]	GPIO[13:11]	SERIAL ROM TYPE OR MEMORY APERTURE SIZE SELECT	001	See ROM table
BIF_GEN2_EN_A	GPIO2	0 = PCIE DEVICE AS 2.5GT/S CAPABLE 1 = PCIE DEVICE AS 5GT/S CAPABLE	0	
GPIO_8_ROMSO H2SYNC GPIO_21_BB_EN	GPIO8 H2SYNC GPIO21	Reserved Only	0	
AUD[1] AUD[0]	HSYNC VSYNC	AUD[1:0] 00: NO AUDIO FUNCTION. 01: AUDIO FOR DISPLAYPORT AND HDMI IF ADAPTER IS DETECTED. 10: AUDIO FOR DISPLAYPORT ONLY. 11: AUDIO FOR BOTH DISPLAYPORT AND HDMI.	11	See Audio table
GPIO_9_ROMSI	GPIO9	0 = VGA controller capacity enable	0	
VIP_DEVICE_STRAP_ENA	V2SYNC	0 = DRIVER would ignore the value sample on VHAD_0 during RESET.	0	

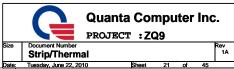
Thermal Sensor(VGA) Vendor P/N WINDBOND AL83L771K01 USD0.16 AL000780000 +3V_D_S +3V_D_S C512 EV@0.1u/10V_4 R365 R364 EV@10K_4 *EV@10K_4 ADDRESS: 98H <35> MXM_SMCLK12 < GPU_D+ <17> SCLK VCC C513 <35> MXM_SMDATA12 SDA EV@2200p/50V_4 <17> ALT#_GPIO17 ALERT# DXN GPU_D- <17> <35> VGA_THERM# OVERT# GND EV@G780P81U ADDRESS: 98H

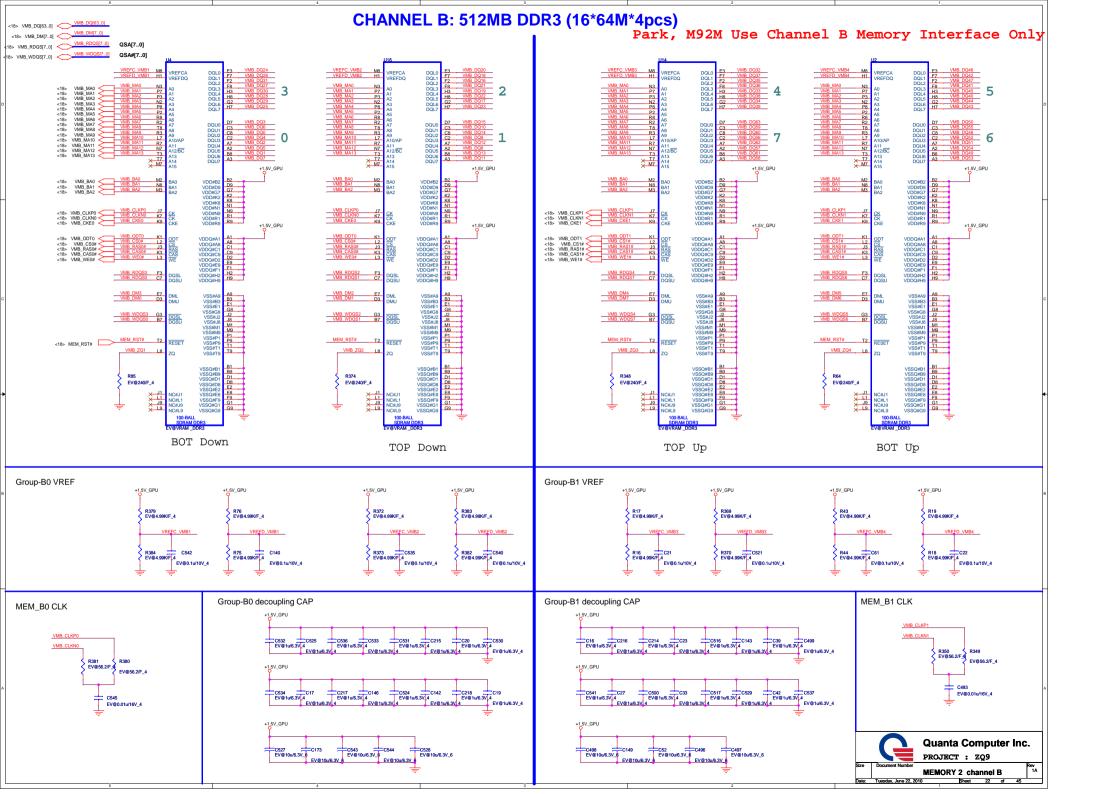
DDR3 Memory Aperture size(GPU)

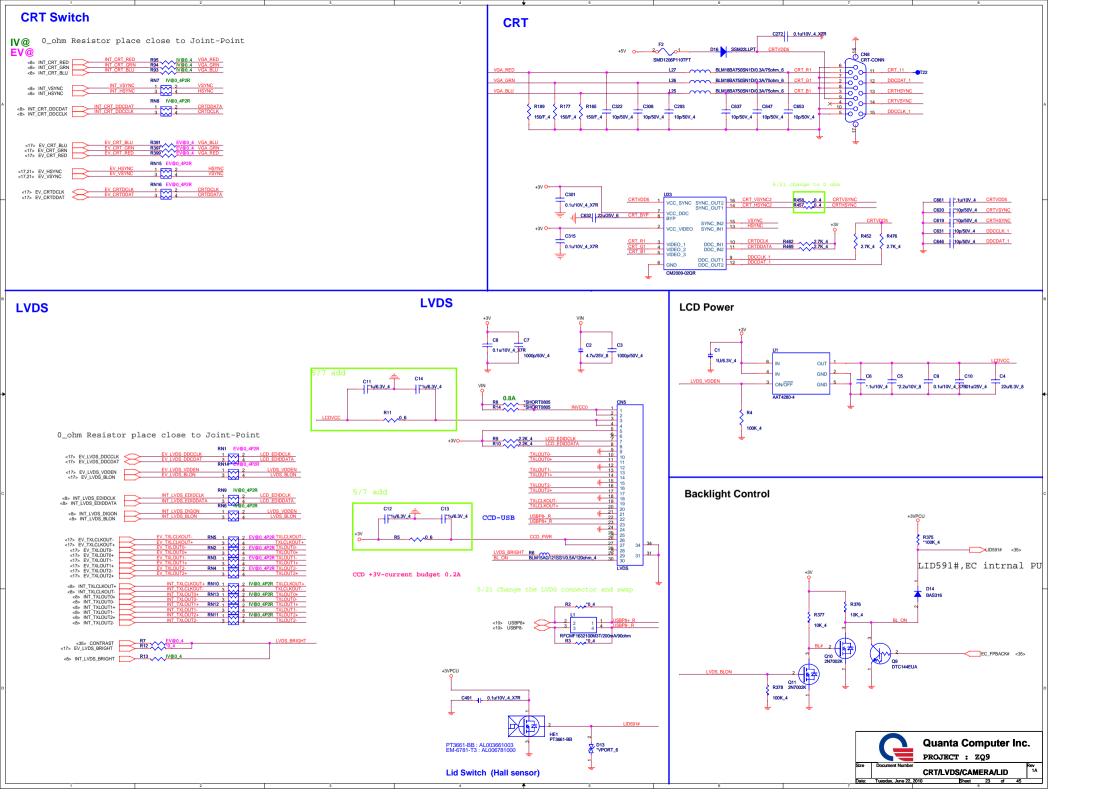
	DDR3 Memory size								
Vendor	Vendor P/N	STN B/S P/N	RAM_STRAP2 DVPDATA_2	RAM_STRAP1 DVPDATA_1	RAM_STRAP0 DVPDATA_0				
			1	1	0				
Hynix	H5TQ1G63BFR-12C	AKD5LZGTW04 (64M*16)	1	0	0				
	H5TQ2G63BFR-12C	AKD5MGGTW03 (128M*16)	1	0	1				
Samsung	K4W1G1646E-HC12	AKD5LGGT506 (64M*16)	0	0	0				
	K4W2G1646B-HC12	AKD5MGGT500 (128m*16)	0	0	1				
AMD	23EY2387MA12-SZ	AKD5LGGT700	0	1	0				
AWD									

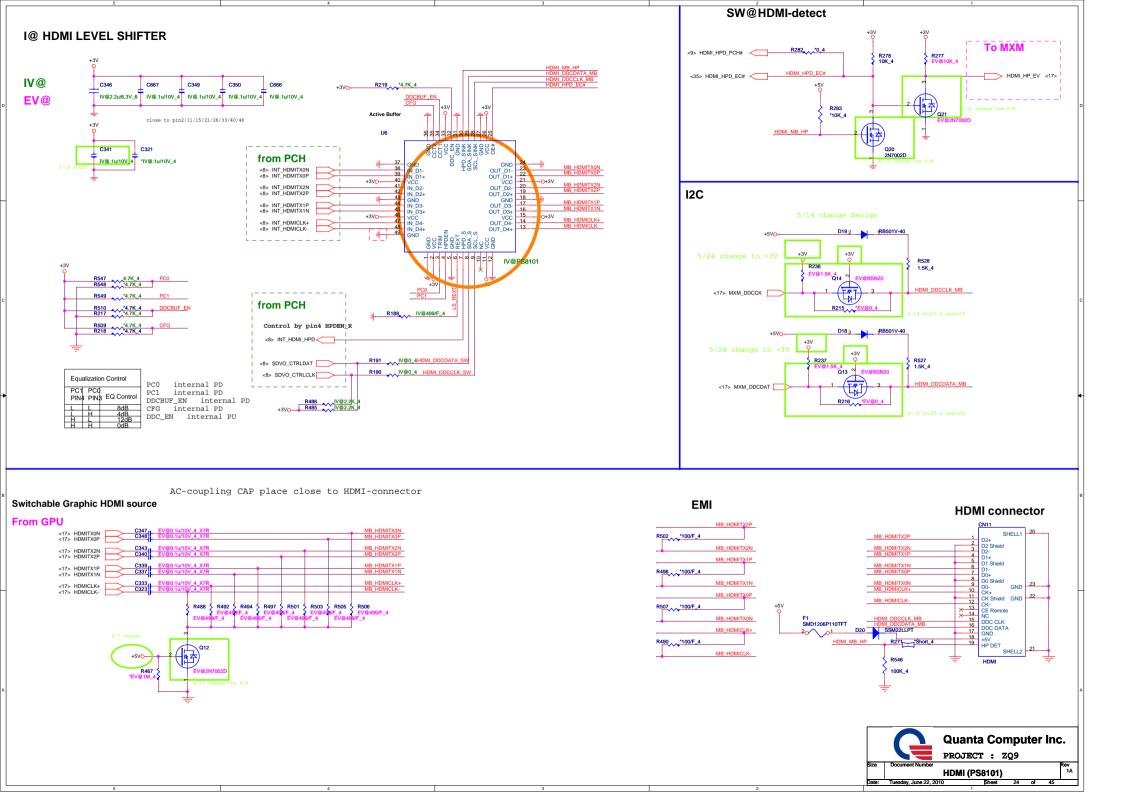


RAM_STRAP2 SET DDR3 Vendor
RAM_STRAP[1:0] SET SIZE.

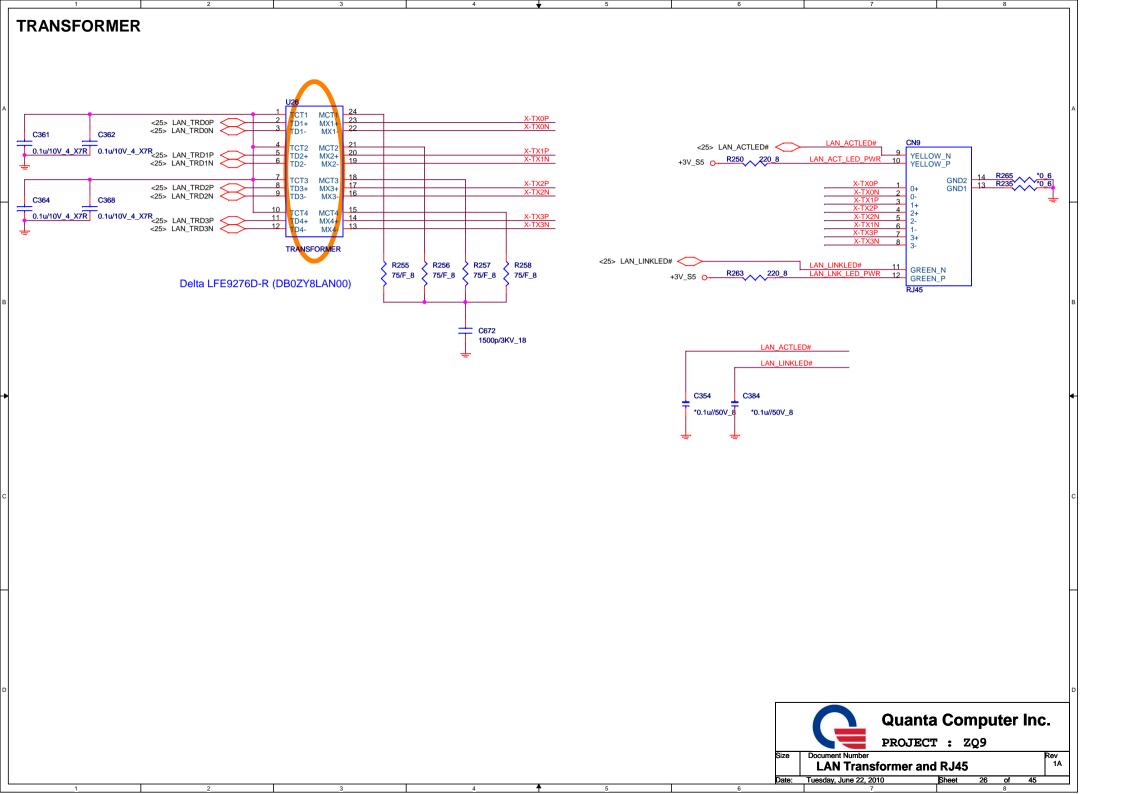


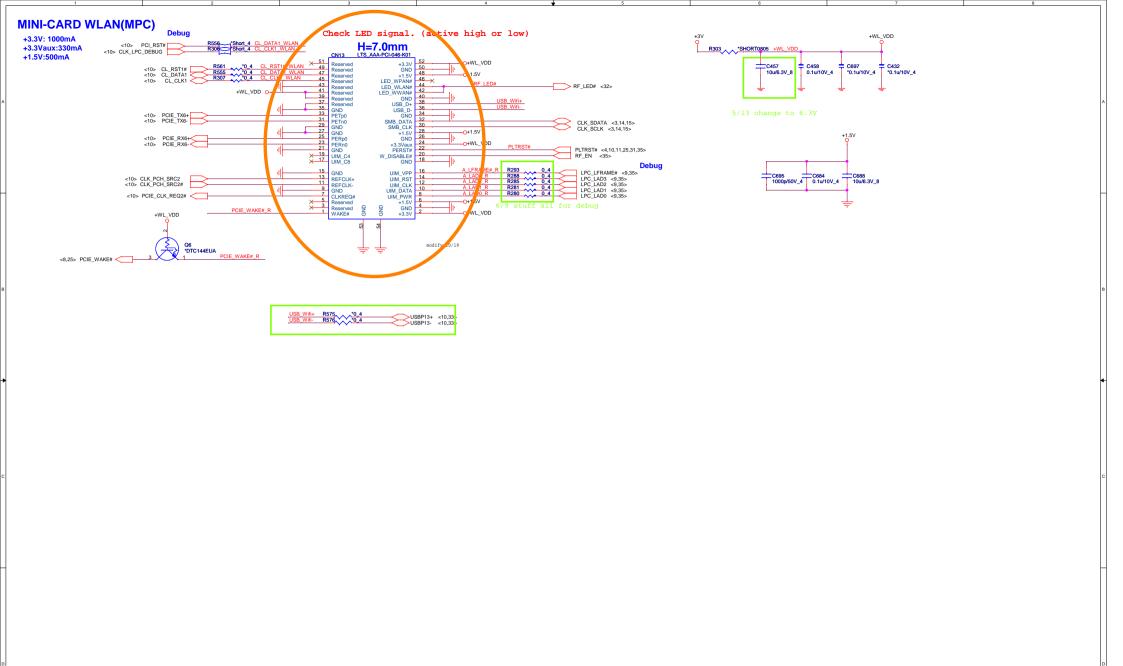






Giga-LAN BCM57780 +3V_S5 U8 15mil BIASVDD L30 C382 0.1u/10V 4 X7B VDDO BIASVDDH VAUX_12 VDDC VDDC VDDC XTAL VIDDH 1.53 15mil AVDDL AVDDL AVDDL VAUX_12 O AVDDH C673 4.7U/6.3V_6 C677 0.1u/10V_4_X7R BCM57780 7mm x 7mm 48-Pin QFN BLM18AG601SN1_6 C674 0.1u/10V_4_X7R AVDDH C675 0.1u/10V_4_X7R 15mil >LAN_TRD3N <26> >LAN_TRD3P <26> GPHY_PLLVDDL C390 4.7U/6.3V_6 C388 0.1u/10V_4_X7R BLM18AG601SN1_6 >LAN_TRD2N <26> L55 15mil PCIE_PLLVDDL >LAN_TRD1N <26> >LAN_TRD1P <26> BLM18AG601SN1_6 C679 4.7U/6.3V 6 C681 0.1u/10V 4_K7 PCIE_PLLVDDL >LAN_TRD0N <26> >LAN_TRD0P <26> LAN_LINKLED# I AN LINKI FD# <26s LINKLED# SPD100LED# SPD1000LED# TRAFFICLED# LAN_ACTLED# <26> <10> PCIE_RX1+ PCIE_TXDP PCIE_TXDN PCIE_RXDP PCIE_RXDN WAKE# PERST# PCIE_REFCLK_P PCIE_REFCLK_N <10> PCIE_RX1+ <10> PCIE_RX1-<10> PCIE_TX1+ MODE <10> PCIE_TX1-<8.27> PCIE_WAKE# <8,27> PCIE_WARE# <4,10,11,27,31,35> PLTRST# <10> CLK_PCIE_LOM <10> CLK_PCIE_LOM# EEDATA VAUX_12 VMAIN_PRSNT LOW_PWR L32 ______ 4.7uh Don't route under Choke. R286 200_4 C420 33p_4 XTALO XTALI SR_VDDP SR_VDD C687 C418 C422 0.1u/10V_4_X7R R267 1.24K/F_4 RDAC 0.1u/10V_4_X7R +3V_S50 R291 *4.7K_4 CLK_REQ# <10> CLK_PCIE_LAN_REQ# R292 Short_4BCM_CLKREQ# BCM57780 **EEPROM** LAN POWER +3V_S5 20mil +3V_S5 R287 R289 C680 4.7U/6.3V_6 C683 4.7U/6.3V_6 C401 0.1u/10V_4_X7R C682 0.1u/10V_4_X7R C678 0.1u/10V_4_X7R C399 0.1w/10V_4_X7 GND VCC C423 *24LC02 *0.1u/10V_4_X7R EEPROM Strapping A version Still mount the EEPROM EEPROM Type EECLK EEDATA 24LC02 **Quanta Computer Inc.** 0 PROJECT : ZQ9 Internal **GLAN BCM57780**





Quanta Computer Inc. PROJECT : ZQ9 Rev 1A MINI PCI-E card/TV

