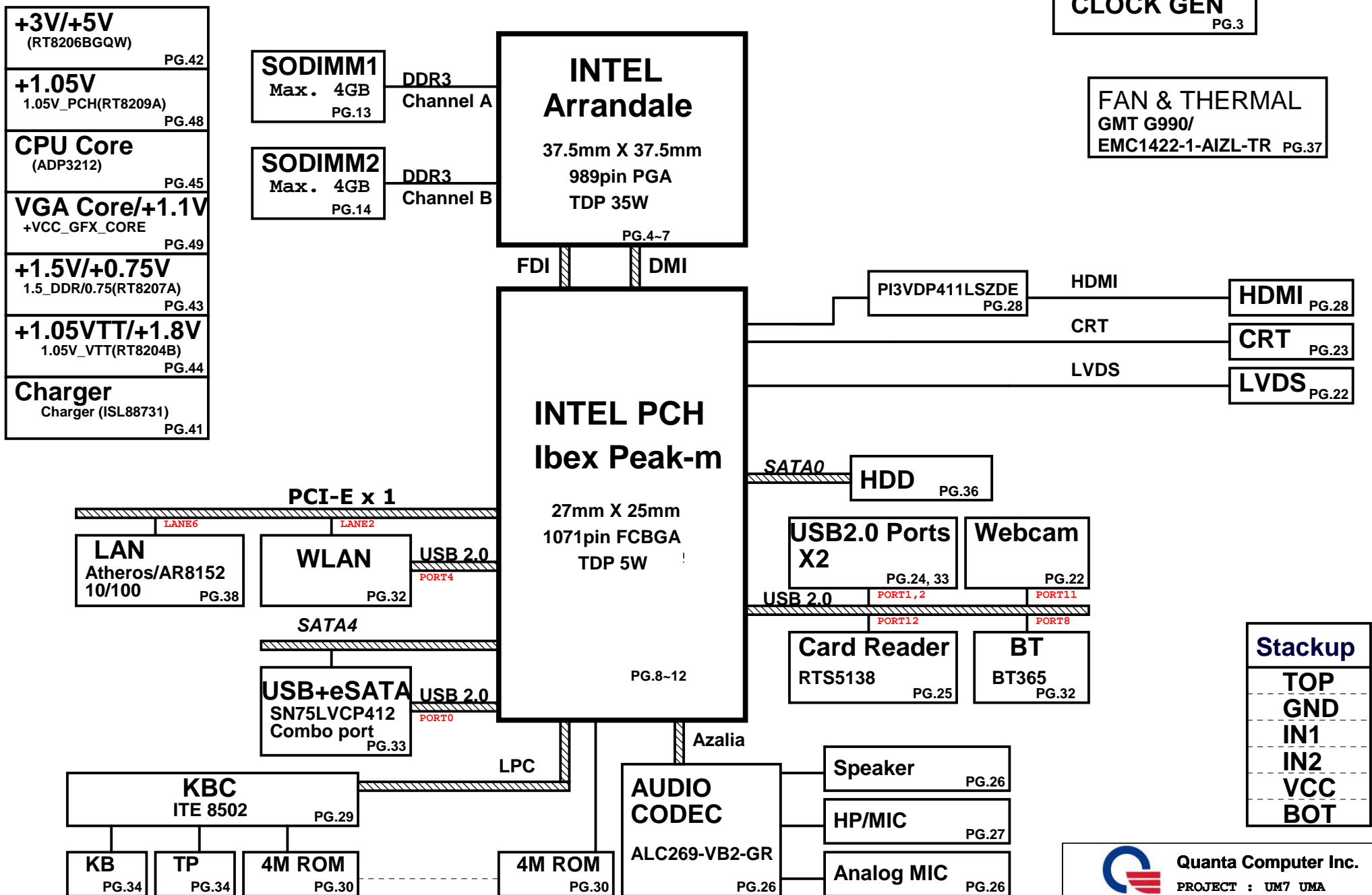



UM7 UMA SYSTEM DIAGRAM

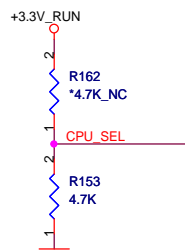
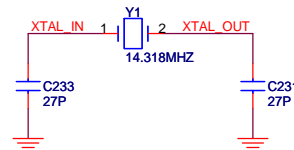
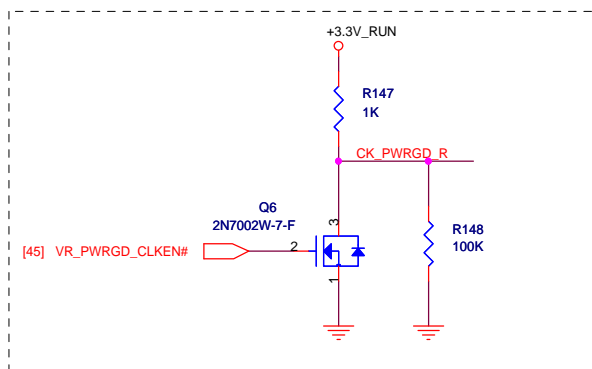
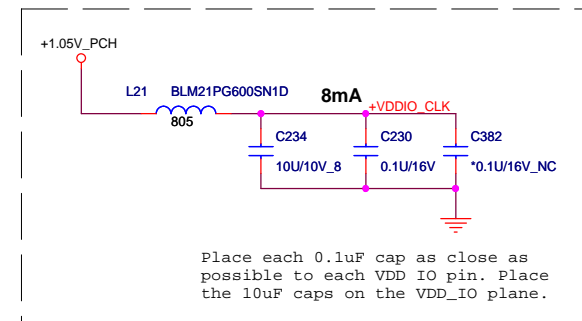
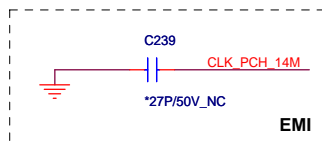
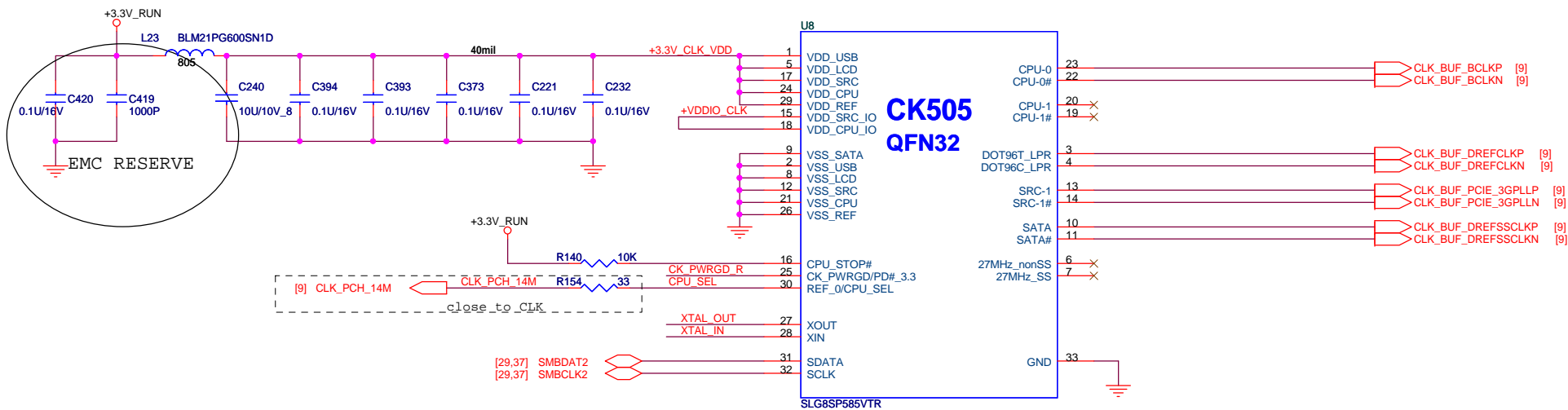


PAGE	DESCRIPTION
1	Schematic Block Diagram
2	Front Page
3	Clock Generator
4-7	PROCESSER Arrandale
8-12	PCH
13-14	DDRIII SO-DIMM(204P)
15-21	Blank Page
22	LCD CONN W/CCD
23	CRT CONN
24	Right side USB
25	Cardreader (RTS5138)
26	Azalia (ALC269)
27	Audio Connector
28	HDMI CONN
29	SIO(ITE8502)
30	FLASH / RTC
31	Blank Page
32	MINI-Card (WLAN)+BT
33	ESATA & Left USB
34	TP / KEYBOARD
35	SATA HDD
36	SWITCH LED
37	FAN / THERMAL
38	LAN(AR8152/RJ-45)
39	Blank Page
40	System Reset Circuit
41	Charger (MAX8731)
42	3V/5V (RT8206BGQW)
43	1.5_DDR/0.75(RT8207A)
44	1.05V_VTT(RT8204B)
45	CPU CORE(ADP3212)
46	Run Power Switch
47	DCin & Batt
48	1.05V_PCH(RT8209A)
49	GFX_VCORE (ADP3211)
50	Power Block Diagram
51	Power sequence Block

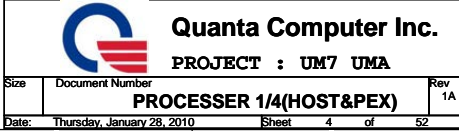
Power States

POWER PLANE	VOLTAGE	PAGE	DESCRIPTION	CONTROL SIGNAL	ACTIVE IN
+PWR_SRC	10V~+19V	23,42,43,44,45,46,49,50	MAIN POWER		S0~S5
+RTC_CELL	+3.0V~+3.3V	09,12,30,31	RTC		S0~S5
+5V_ALW	+5V	37,43,44,47,48	LARGE POWER	ALW_ON	S0~S5
+3.3V_ALW	+3.3V	30,31,37,42,43,45,47,48	8051 POWER	3.3V_ALW_ON	S0~S5
+5V_SUS	+5V	12,25,34,37,43,44,45,46,47,49,50	SLP_S5# CTRLD POWER	SUS_ON	
+3.3V_SUS	+3.3V	03,08,09,10,11,12,23,35,37,39,41,46,47,50	SLP_S5# CTRLD POWER	SUS_ON	
+1.5V_SUS	+1.5V	04,06,14,15,44,47	SODIMM POWER	SUS_ON	
+0.75V_DDR_VTT	+0.75V	14,15,44	SODIMM POWER	RUN_ON	
+5V_RUN	+5V	08,12,23,24,27,28,29,35,36,37,38,47	SLP_S3# CTRLD POWER	RUN_ON	
+3.3V_RUN	+3.3V	3,4,8,9,10,11,12,14,15,23,24,26,27,28,29,30,31,33,34,36,37,38,39,41,47	SLP_S3# CTRLD POWER	RUN_ON	
+1.8V_RUN	+1.8V	6,12,45	SDVO POWER	RUN_ON	
+1.05V_VTT	+1.1V	4,6,11,12,45,46	CPU POWER	RUN_ON	
+1.5V_RUN	+1.5V	12,33,47	PCH/Min Card	RUN_ON	
+1.05V_PCH	+1.05V	3,8,9,10,12,49	PCH POWER	RUN_ON	
+VCC_CORE	+0.7V~+1.77V	6,46	CPU CORE POWER	IMVP_VR_ON	
+LCDVCC	+3.3V	23	LCD Power	LCDVCC_TST_EN & ENVDD	

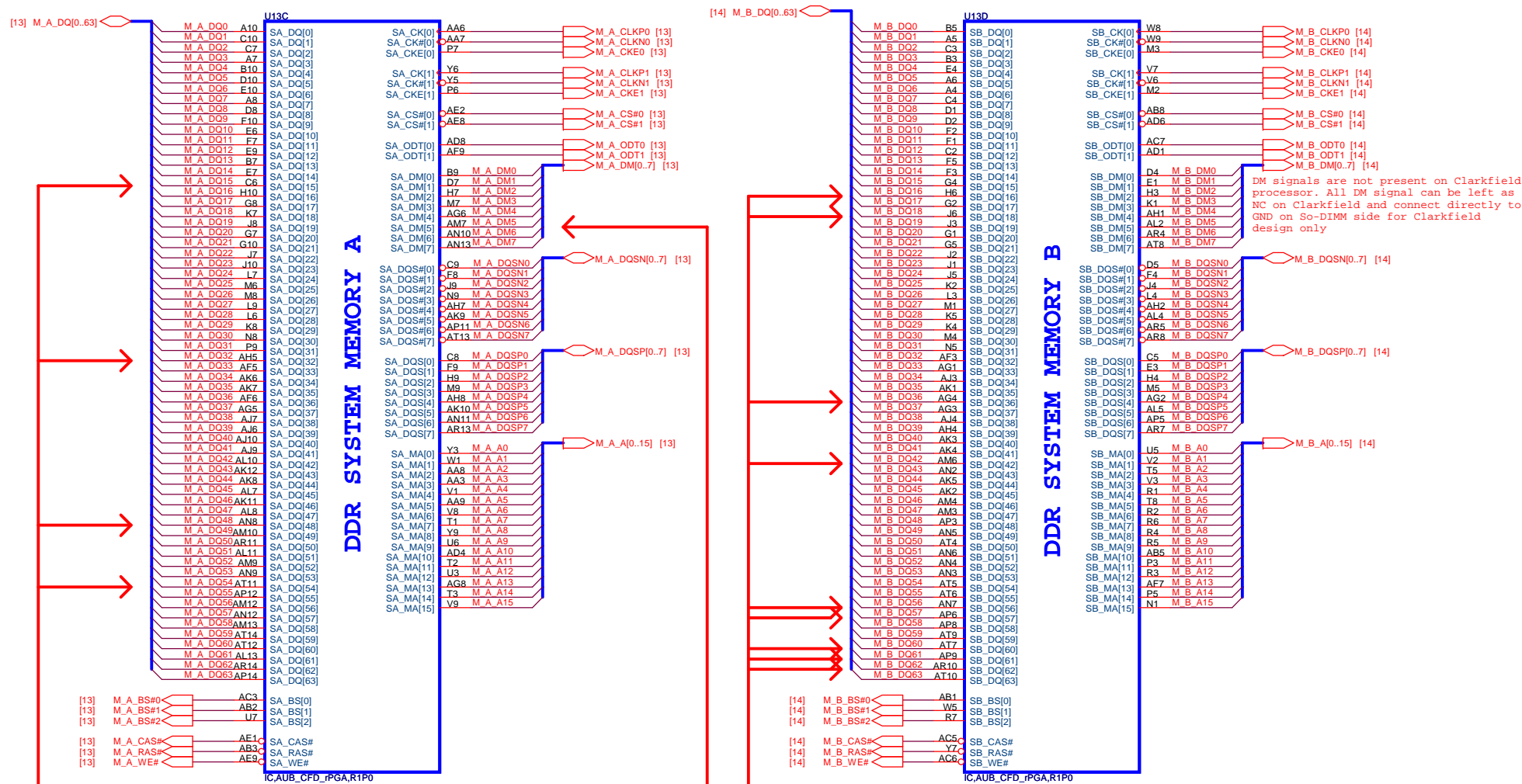
GND PLANE	PAGE	DESCRIPTION
 GND	ALL	



PIN	30	CPU_0	CPU_1
0 (default)		133MHz	133MHz
1 (0.7V-1.5V)		100MHz	100MHz



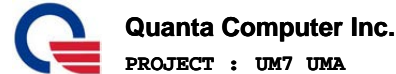
AUBURNDALE/CLARKSFIELD PROCESSOR (DDR3)



Quanta Computer Inc.

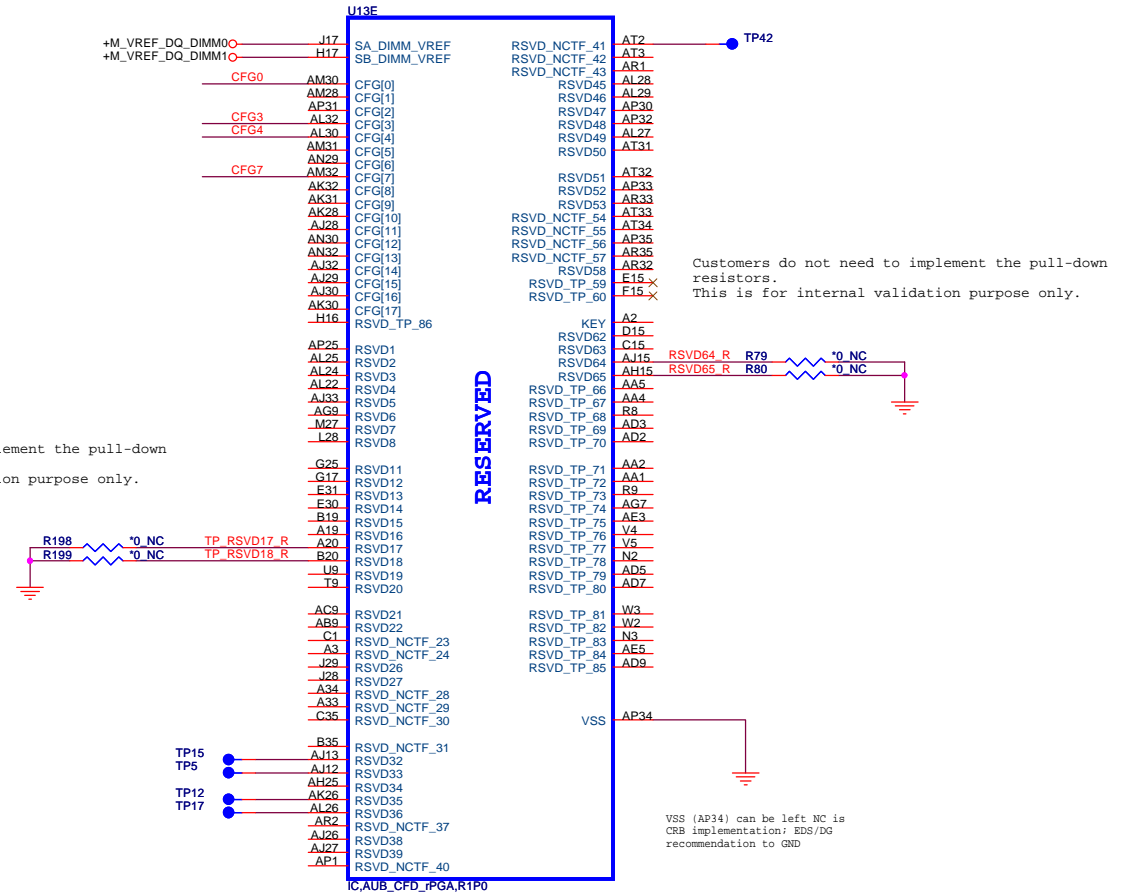
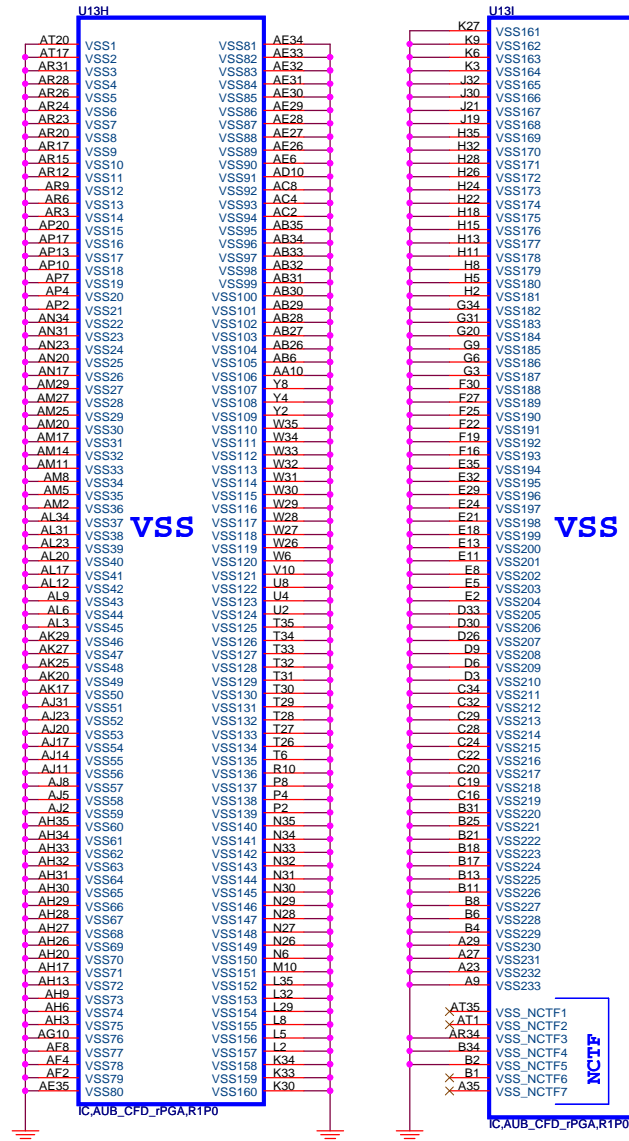
PROJECT : UM7 UMA

Size	Document Number	Rev
	PROCESSOR 2/4(DDR)	1A
Date: Thursday, January 28, 2010	Sheet 5 of 52	



Arrandale PROCESSOR (GND)

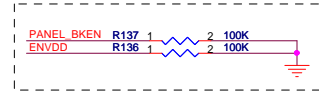
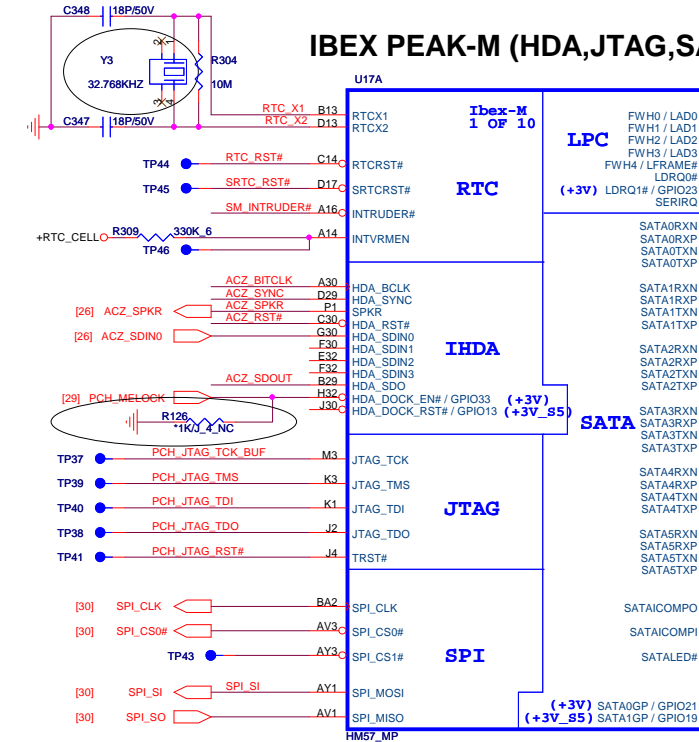
Arrandale PROCESSOR(RESERVED, CFG)



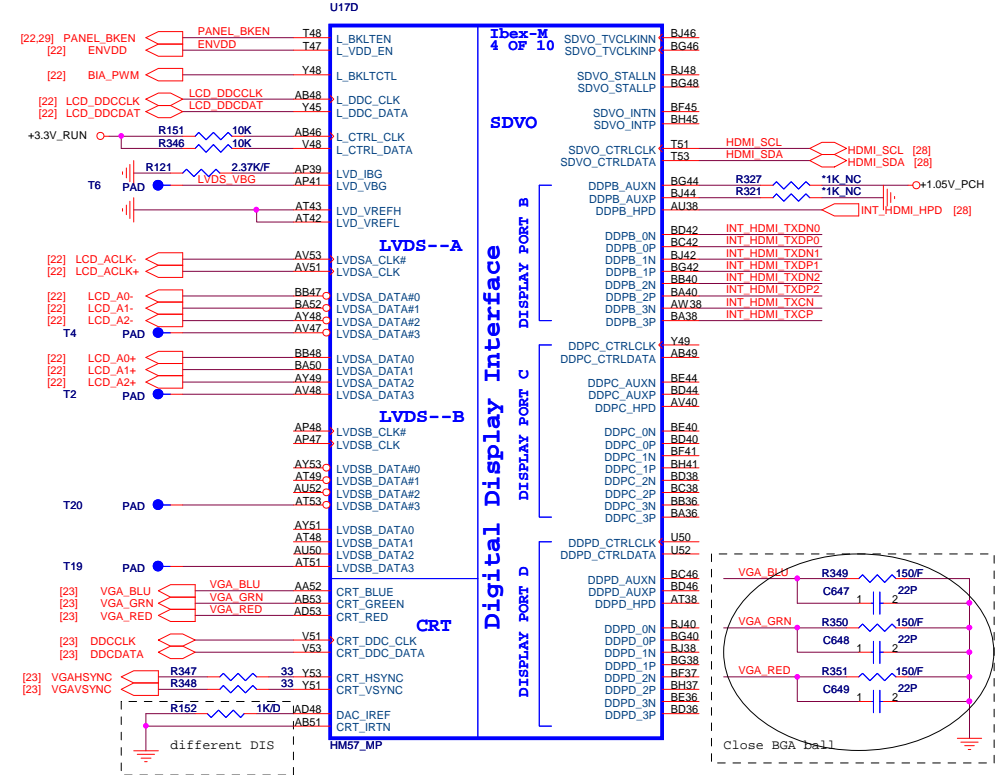
	1	0
CFG4 (Display Port Presence)	Disabled; No Physical Display Port attached to Embedded Display Port	Enabled; An external Display port device is connected to the Embedded Display port
CFG0 (PCI-Epress Configuration Select)	Single PEG	Bifurcation enabled
CFG3 (PCI-Epress Static Lane Reversal)	Normal Operation	Lane Numbers Reversed

INTVRMEN - Integrated SUS 1.1V VRM Enable
High - Enable Internal VRs

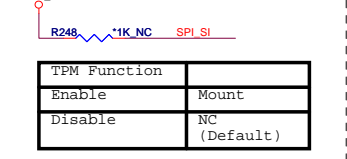
IBEX PEAK-M (HDA,JTAG,SATA)



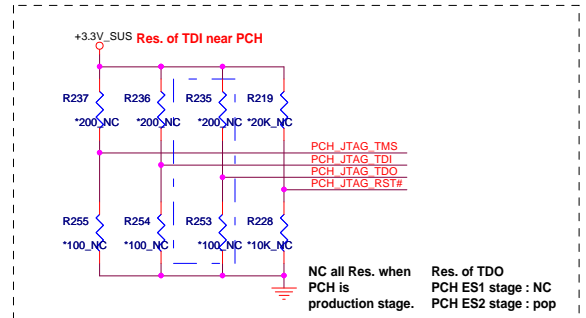
IBEX PEAK-M (LVDS,DDI)



ITPM ENABLE/DISABLE



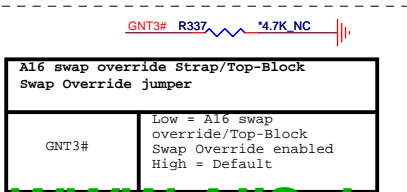
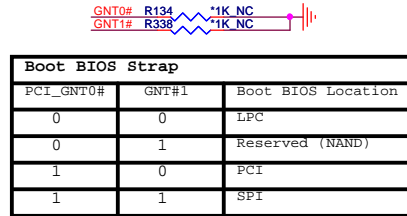
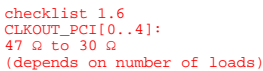
Note : Only pop when PCH is production stage & need "JTAG boundary Scan". Remember to depop XDP side Res.



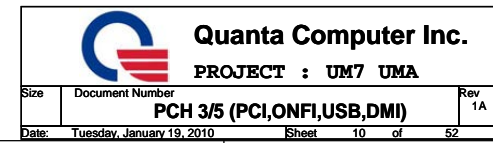
IBEX PEAK-M (GND)

U171

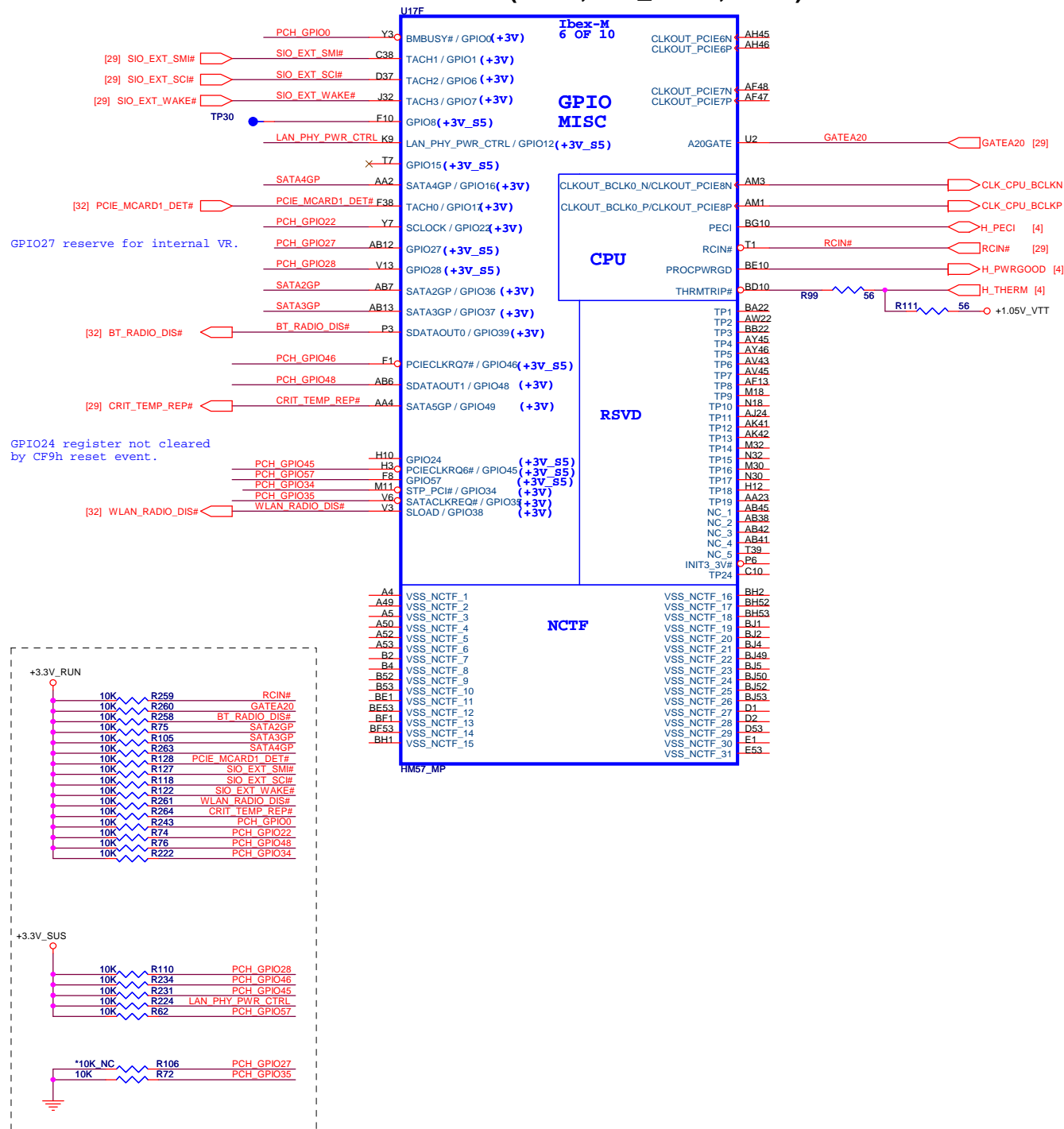
AY7	VSS(159)	VSS(259)	H49
B11	VSS(160)	VSS(260)	J24
B15	VSS(161)	VSS(261)	K11
B19	VSS(162)	VSS(262)	K43
B23	VSS(163)	VSS(263)	K47
B31	VSS(164)	VSS(264)	K7
B35	VSS(165)	VSS(265)	L14
B39	VSS(166)	VSS(266)	L18
B43	VSS(167)	VSS(267)	L2
B47	VSS(168)	VSS(268)	L22
B7	VSS(169)	VSS(269)	L32
BG12	VSS(170)	VSS(270)	L36
BB12	VSS(171)	VSS(271)	L40
BB16	VSS(172)	VSS(272)	L52
BB20	VSS(173)	VSS(273)	M12
BB24	VSS(174)	VSS(274)	M16
BB30	VSS(175)	VSS(275)	M20
BB34	VSS(176)	VSS(276)	M38
BB38	VSS(177)	VSS(277)	M42
BB42	VSS(178)	VSS(278)	M46
BB49	VSS(179)	VSS(279)	M49
BC5	VSS(180)	VSS(280)	M5
BC10	VSS(181)	VSS(281)	M8
BC14	VSS(182)	VSS(282)	M9
BC18	VSS(183)	VSS(283)	M11
BC22	VSS(184)	VSS(284)	M12
BC32	VSS(185)	VSS(285)	M16
BC36	VSS(186)	VSS(286)	M18
BC40	VSS(187)	VSS(287)	M20
BC44	VSS(188)	VSS(288)	M24
BC52	VSS(189)	VSS(289)	M28
BD4	VSS(190)	VSS(290)	M32
BD8	VSS(191)	VSS(291)	M34
BD12	VSS(192)	VSS(292)	M36
BD16	VSS(193)	VSS(293)	M38
BD20	VSS(194)	VSS(294)	M40
BD24	VSS(195)	VSS(295)	M42
BD28	VSS(196)	VSS(296)	M44
BD32	VSS(197)	VSS(297)	M46
BD36	VSS(198)	VSS(298)	M48
BD40	VSS(199)	VSS(299)	M50
BD44	VSS(200)	VSS(300)	M52
BD48	VSS(201)	VSS(301)	M54
BD52	VSS(202)	VSS(302)	M56
BD56	VSS(203)	VSS(303)	M58
BD60	VSS(204)	VSS(304)	M60
BD64	VSS(205)	VSS(305)	M62
BD68	VSS(206)	VSS(306)	M64
BD72	VSS(207)	VSS(307)	M66
BD76	VSS(208)	VSS(308)	M68
BD80	VSS(209)	VSS(309)	M70
BD84	VSS(210)	VSS(310)	M72
BD88	VSS(211)	VSS(311)	M74
BD92	VSS(212)	VSS(312)	M76
BD96	VSS(213)	VSS(313)	M78
BD100	VSS(214)	VSS(314)	M80
BD104	VSS(215)	VSS(315)	M82
BD108	VSS(216)	VSS(316)	M84
BD112	VSS(217)	VSS(317)	M86
BD116	VSS(218)	VSS(318)	M88
BD120	VSS(219)	VSS(319)	M90
BD124	VSS(220)	VSS(320)	M92
BD128	VSS(221)	VSS(321)	M94
BD132	VSS(222)	VSS(322)	M96
BD136	VSS(223)	VSS(323)	M98
BD140	VSS(224)	VSS(324)	M100
BD144	VSS(225)	VSS(325)	M102
BD148	VSS(226)	VSS(326)	M104
BD152	VSS(227)	VSS(327)	M106
BD156	VSS(228)	VSS(328)	M108
BD160	VSS(229)	VSS(329)	M110
BD164	VSS(230)	VSS(330)	M112
BD168	VSS(231)	VSS(331)	M114
BD172	VSS(232)	VSS(332)	M116
BD176	VSS(233)	VSS(333)	M118
BD180	VSS(234)	VSS(334)	M120
BD184	VSS(235)	VSS(335)	M122
BD188	VSS(236)	VSS(336)	M124
BD192	VSS(237)	VSS(337)	M126
BD196	VSS(238)	VSS(338)	M128
BD200	VSS(239)	VSS(339)	M130
BD204	VSS(240)	VSS(340)	M132
BD208	VSS(241)	VSS(341)	M134
BD212	VSS(242)	VSS(342)	M136
BD216	VSS(243)	VSS(343)	M138
BD220	VSS(244)	VSS(344)	M140
BD224	VSS(245)	VSS(345)	M142
BD228	VSS(246)	VSS(346)	M144
BD232	VSS(247)	VSS(347)	M146
BD236	VSS(248)	VSS(348)	M148
BD240	VSS(249)	VSS(349)	M150
BD244	VSS(250)	VSS(350)	M152
BD248	VSS(251)	VSS(351)	M154
BD252	VSS(252)	VSS(352)	M156
BD256	VSS(253)	VSS(353)	M158
BD260	VSS(254)	VSS(354)	M160
BD264	VSS(255)	VSS(355)	M162
BD268	VSS(256)	VSS(356)	M164
BD272	VSS(257)	VSS(357)	M166
BD276	VSS(258)	VSS(358)	M168
BD280	VSS(259)	VSS(359)	M170
BD284	VSS(260)	VSS(360)	M172
BD288	VSS(261)	VSS(361)	M174
BD292	VSS(262)	VSS(362)	M176
BD296	VSS(263)	VSS(363)	M178
BD300	VSS(264)	VSS(364)	M180
BD304	VSS(265)	VSS(365)	M182
BD308	VSS(266)	VSS(366)	M184
BD312	VSS(267)	VSS(367)	M186
BD316	VSS(268)	VSS(368)	M188
BD320	VSS(269)	VSS(369)	M190
BD324	VSS(270)	VSS(370)	M192
BD328	VSS(271)	VSS(371)	M194
BD332	VSS(272)	VSS(372)	M196
BD336	VSS(273)	VSS(373)	M198
BD340	VSS(274)	VSS(374)	M200
BD344	VSS(275)	VSS(375)	M202
BD348	VSS(276)	VSS(376)	M204
BD352	VSS(277)	VSS(377)	M206
BD356	VSS(278)	VSS(378)	M208
BD360	VSS(279)	VSS(379)	M210
BD364	VSS(280)	VSS(380)	M212
BD368	VSS(281)	VSS(381)	M214
BD372	VSS(282)	VSS(382)	M216
BD376	VSS(283)	VSS(383)	M218
BD380	VSS(284)	VSS(384)	M220
BD384	VSS(285)	VSS(385)	M222
BD388	VSS(286)	VSS(386)	M224
BD392	VSS(287)	VSS(387)	M226
BD396	VSS(288)	VSS(388)	M228
BD400	VSS(289)	VSS(389)	M230
BD404	VSS(290)	VSS(390)	M232
BD408	VSS(291)	VSS(391)	M234
BD412	VSS(292)	VSS(392)	M236
BD416	VSS(293)	VSS(393)	M238
BD420	VSS(294)	VSS(394)	M240
BD424	VSS(295)	VSS(395)	M242
BD428	VSS(296)	VSS(396)	M244
BD432	VSS(297)	VSS(397)	M246
BD436	VSS(298)	VSS(398)	M248
BD440	VSS(299)	VSS(399)	M250
BD444	VSS(300)	VSS(400)	M252
BD448	VSS(301)	VSS(401)	M254
BD452	VSS(302)	VSS(402)	M256
BD456	VSS(303)	VSS(403)	M258
BD460	VSS(304)	VSS(404)	M260
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BD468	VSS(306)	VSS(406)	M264
BD472	VSS(307)	VSS(407)	M266
BD476	VSS(308)	VSS(408)	M268
BD480	VSS(309)	VSS(409)	M270
BD484	VSS(310)	VSS(410)	M272
BD488	VSS(311)	VSS(411)	M274
BD492	VSS(312)	VSS(412)	M276
BD496	VSS(313)	VSS(413)	M278
BD500	VSS(314)	VSS(414)	M280
BD504	VSS(315)	VSS(415)	M282
BD508	VSS(316)	VSS(416)	M284
BD512	VSS(317)	VSS(417)	M286
BD516	VSS(318)	VSS(418)	M288
BD520	VSS(319)	VSS(419)	M290
BD524	VSS(320)	VSS(420)	M292
BD528	VSS(321)	VSS(421)	M294
BD532	VSS(322)	VSS(422)	M296
BD536	VSS(323)	VSS(423)	M298
BD540	VSS(324)	VSS(424)	M300
BD544	VSS(325)	VSS(425)	M302
BD548	VSS(326)	VSS(426)	M304
BD552	VSS(327)	VSS(427)	M306
BD556	VSS(328)	VSS(428)	M308
BD560	VSS(329)	VSS(429)	M310
BD564	VSS(330)	VSS(430)	M312
BD568	VSS(331)	VSS(431)	M314
BD572	VSS(332)	VSS(432)	M316
BD576	VSS(333)	VSS(433)	M318
BD580	VSS(334)	VSS(434)	M320
BD584	VSS(335)	VSS(435)	M322
BD588	VSS(336)	VSS(436)	M324
BD592	VSS(337)	VSS(437)	M326
BD596	VSS(338)	VSS(438)	M328
BD600	VSS(339)	VSS(439)	M330
BD604	VSS(340)	VSS(440)	M332
BD608	VSS(341)	VSS(441)	M334
BD612	VSS(342)	VSS(442)	M336
BD616	VSS(343)	VSS(443)	M338
BD620	VSS(344)	VSS(444)	M340
BD624	VSS(345)	VSS(445)	M342
BD628	VSS(346)	VSS(446)	M344
BD632	VSS(347)	VSS(447)	M346
BD636	VSS(348)	VSS(448)	M348
BD640	VSS(349)	VSS(449)	M350
BD644	VSS(350)	VSS(450)	M352
BD648	VSS(351)	VSS(451)	M354
BD652	VSS(352)	VSS(452)	M356
BD656	VSS(353)	VSS(453)	M358
BD660	VSS(354)	VSS(454)	M360
BD664	VSS(355)	VSS(455)	M362
BD668	VSS(356)	VSS(456)	M364
BD672	VSS(357)	VSS(457)	M366
BD676	VSS(358)	VSS(458)	M368
BD680	VSS(359)	VSS(459)	M370
BD684	VSS(360)	VSS(460)	M372
BD688	VSS(361)	VSS(461)	M374
BD692	VSS(362)	VSS(462)	M376
BD696	VSS(363)	VSS(463)	M378
BD700	VSS(364)	VSS(464)	M380
BD704	VSS(365)	VSS(465)	M382
BD708	VSS(366)	VSS(466)	M384
BD712	VSS(367)	VSS(467)	M386
BD716	VSS(368)	VSS(468)	M388
BD720	VSS(369)	VSS(469)	M390
BD724	VSS(370)	VSS(470)	M392
BD728	VSS(371)	VSS(471)	M394
BD732	VSS(372)	VSS(472)	M396
BD736	VSS(373)	VSS(473)	M398
BD740	VSS(374)	VSS(474)	M400
BD744	VSS(375)	VSS(475)	M402
BD748	VSS(376)	VSS(476)	M404
BD752	VSS(377)	VSS(477)	M406
BD756	VSS(378)	VSS(478)	M408
BD760	VSS(379)	VSS(479)	M410
BD764	VSS(380)	VSS(480)	M412
BD768	VSS(381)	VSS(481)	M414
BD772	VSS(382)	VSS(482)	M416
BD776	VSS(383)	VSS(483)	M418
BD780	VSS(384)	VSS(484)	M420
BD784	VSS(385)	VSS(485)	M422
BD788	VSS(386)	VSS(486)	M424
BD792	VSS(387)	VSS(487)	M426
BD796	VSS(388)	VSS(488)	M428
BD800	VSS(389)	VSS(489)	M430
BD804	VSS(390)	VSS(490)	M432
BD808	VSS(391)	VSS(491)	M434
BD812	VSS(392)	VSS(492)	M436
BD816	VSS(393)	VSS(493)	M438
BD820	VSS(394)	VSS(494)	M440
BD824	VSS(395)	VSS(495)	M442
BD828	VSS(396)	VSS(496)	M444
BD832	VSS(397)	VSS(497)	M446
BD836	VSS(398)	VSS(498)	M448
BD840	VSS(399)	VSS(499)	M450
BD844	VSS(400)	VSS(500)	M452
BD848	VSS(401)	VSS(501)	M454
BD852	VSS(402)	VSS(502)	M456
BD856	VSS(403)	VSS(503)	M458
BD860	VSS(404)	VSS(504)	M460
BD864	VSS(405)	VSS(505)	M462
BD868	VSS(406)	VSS(506)	M464
BD872	VSS(407)	VSS(507)	M466
BD876	VSS(408)	VSS(508)	M468
BD880	VSS(409)	VSS(509)	M470
BD884	VSS(410)	VSS(510)	M472
BD888	VSS(411)	VSS(511)	M474
BD892	VSS(412)	VSS(512)	M476
BD896	VSS(413)	VSS(513)	M478
BD900	VSS(414)	VSS(514)	M480
BD904	VSS(415)	VSS(515)	M482
BD908	VSS(416)	VSS(516)	M484
BD912	VSS(417)	VSS(517)	M486
BD916	VSS(418)	VSS(518)	M488
BD920	VSS(419)	VSS(519)	M490
BD924	VSS(420)	VSS(520)	M492
BD928	VSS(421)	VSS(521)	M494
BD932	VSS(422)	VSS(522)	M496
BD936	VSS(423)	VSS(523)	M498
BD940	VSS(424)	VSS(524)	M500
BD944	VSS(425)	VSS(525)	M502
BD948	VSS(426)	VSS(526)	M504
BD952	VSS(427)	VSS(527)	M506
BD956	VSS(428)	VSS(528)	M508
BD960	VSS(429)	VSS(529)	M510
BD964	VSS(430)	VSS(530)	M512
BD968	VSS(431)	VSS(531)	M514
BD972	VSS(432)	VSS(532)	M516
BD976	VSS(433)	VSS(533)	M518
BD980	VSS(434)	VSS(534)	M520
BD984	VSS(435)	VSS(535)	M522
BD988	VSS(436)	VSS(536)	M524
BD992	VSS(437)	VSS(537)	M526
BD996	VSS(438)	VSS(538)	M528
BD1000	VSS(439)	VSS(539)	M530
BD1004	VSS(440)	VSS(540)	M532
BD1008	VSS(441)	VSS(541)	M534
BD1012	VSS(442)	VSS(542)	M536
BD1016	VSS(443)	VSS(543)	M538
BD1020	VSS(444)	VSS(544)	M540
BD1024	VSS(445)	VSS(545)	M542
BD1028	VSS(446)	VSS(546)	M544
BD1032	VSS(447)	VSS(547)	M546
BD1036	VSS(448)	VSS(548)	M548
BD1040	VSS(449)	VSS(549)	M550
BD1044	VSS(450)	VSS(550)	M552
BD1048	VSS(451)	VSS(551)	M554
BD1052	VSS(452)	VSS(552)	M556
BD1056	VSS(453)	VSS(553)	



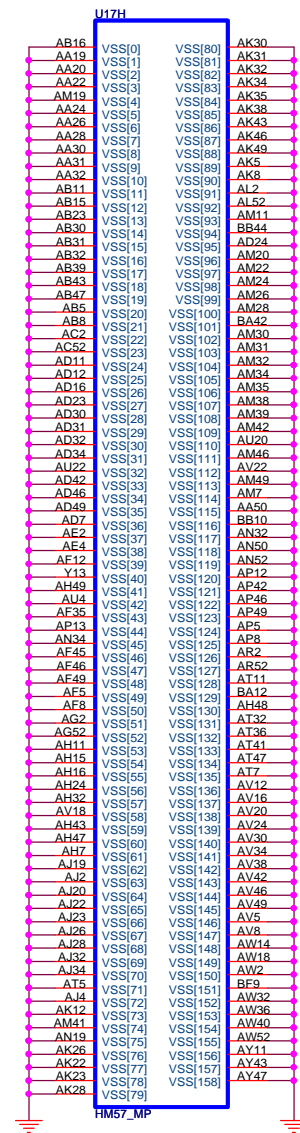
IBEX PEAK-M (DMI,FDI,GPIO)



IBEX PEAK-M (GPIO,VSS_NCTF,RSVD)



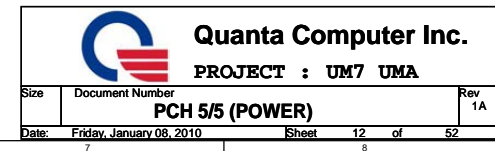
IBEX PEAK-M (GND)



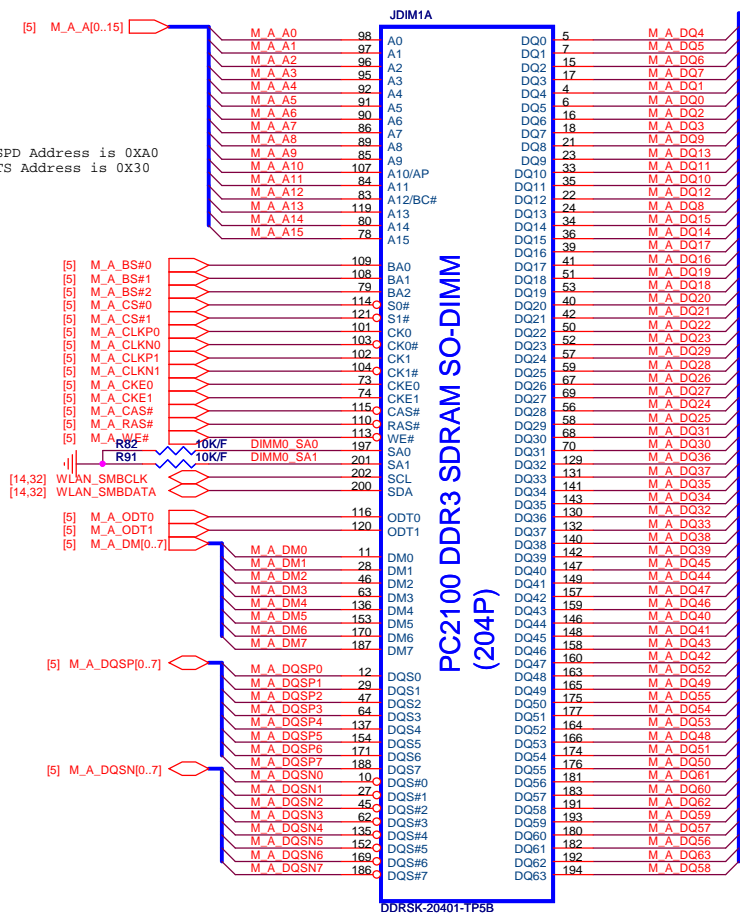
Quanta Computer Inc.

PROJECT : UM7 UMA


Size	Document Number	Rev
	PCH 4/5 (GPIO & Strap)	1A
Date:	Tuesday, January 19, 2010	Sheet 11 of 52




SO-DIMMA SPD Address is 0XA0
SO-DIMMA TS Address is 0X30



**BLANK PAGE FOR PAGE
NUMBER SAME AS DISCRETE**

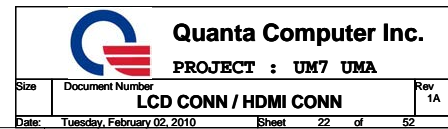
		Quanta Computer Inc.	
		PROJECT : UM7 UMA	
Size	Document Number		Rev
	Blank		1A
Date:	Thursday, November 19, 2009		Sheet 15 of 52

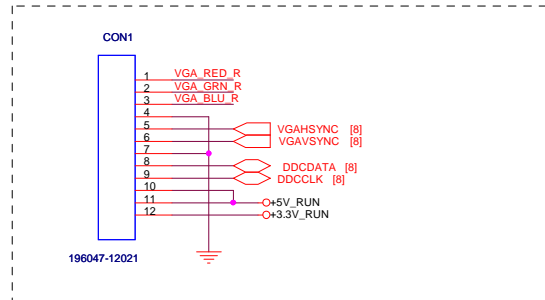
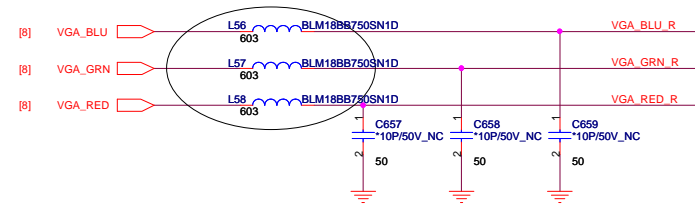


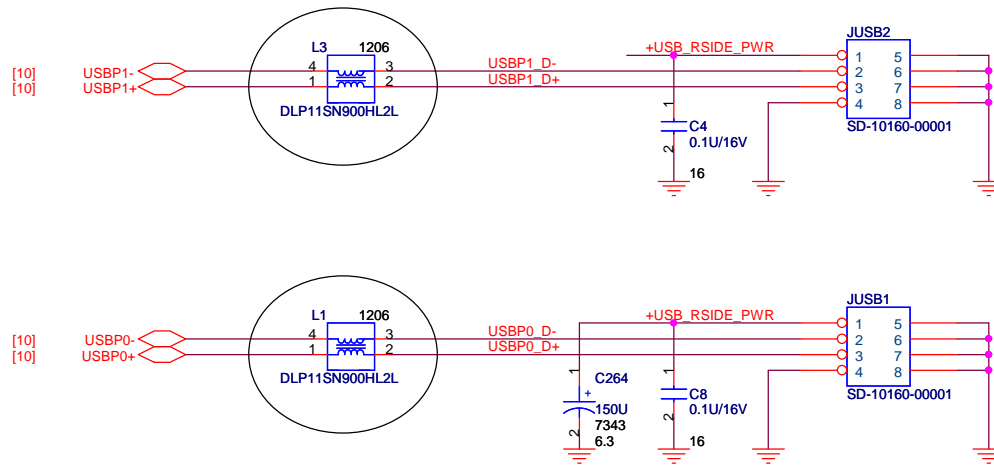
Quanta Computer Inc.

PROJECT : UM7 UMA

Size	Document Number	Rev
	Blank	1A
Date:	Thursday, November 19, 2009	Sheet 18 of 52

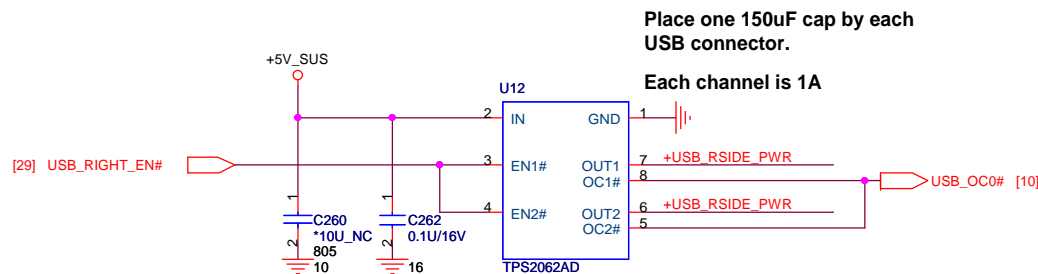
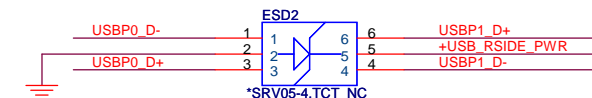






Platforms should put in PADS for the USB chokes if they have the room. Chokes should be NOPOP.

Place ESD diodes as close as USB connector.



Place one 150uF cap by each USB connector.

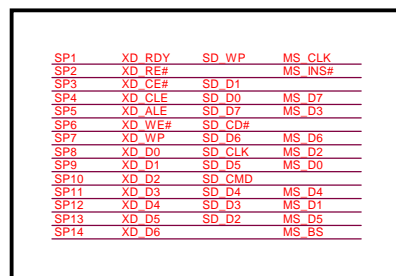
Each channel is 1A



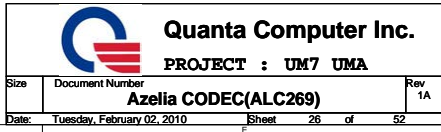
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Size	Document Number	Rev
	Right USB	1A
Date:	Tuesday, February 02, 2010	Sheet 24 of 52

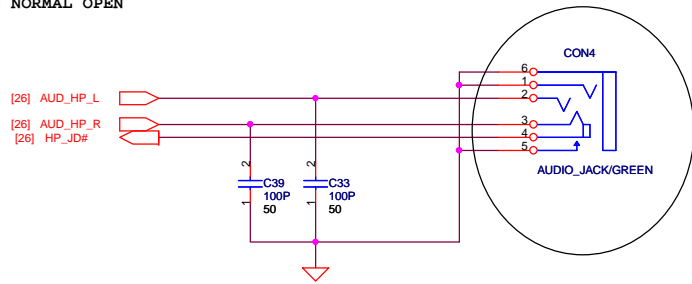


Pin connection diagram for DLP11SN900HL2L. The device is shown with pins 1, 2, 3, and 4. Pin 1 is connected to USBP12- and L19. Pin 2 is connected to USBP12 D-. Pin 3 is connected to USBP12 D+. Pin 4 is connected to USBP12+.



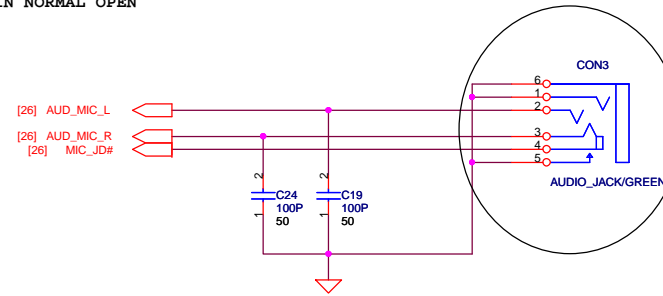
HP JACKN

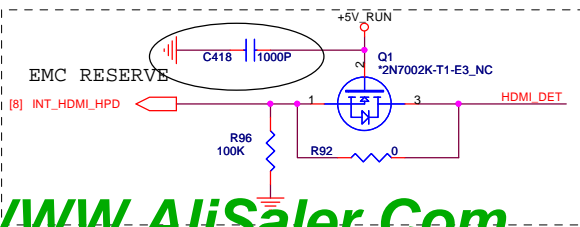
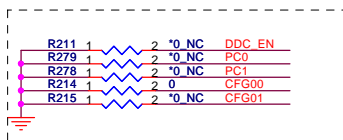
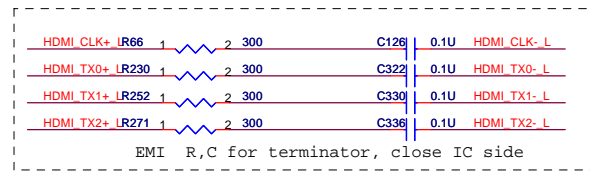
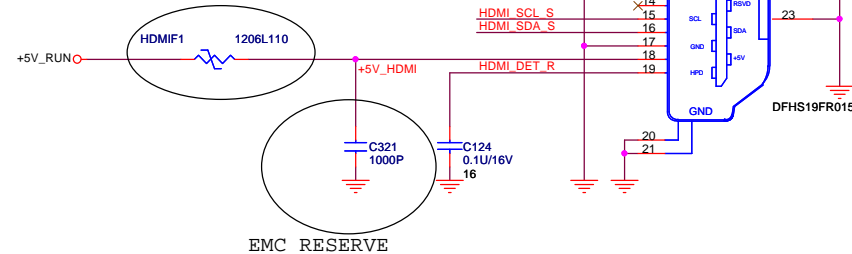
SUYIN NORMAL OPEN

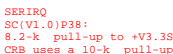


MIC JACK

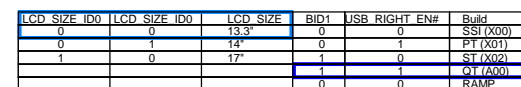
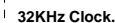
SUYIN NORMAL OPEN



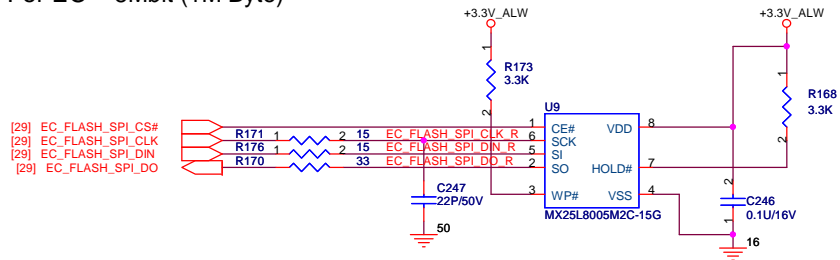




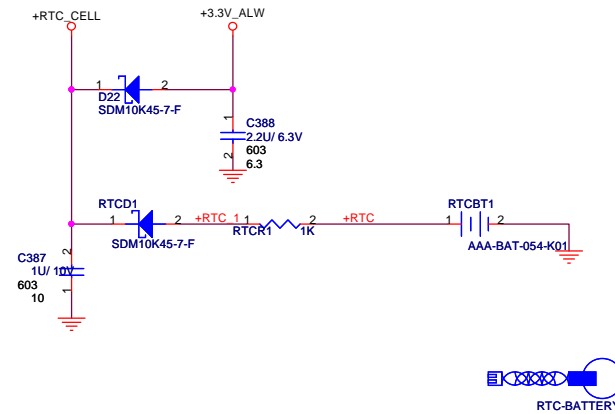
PCH
VGA, LAN, Clock
Thermal IC



For EC 8Mbit (1M Byte)



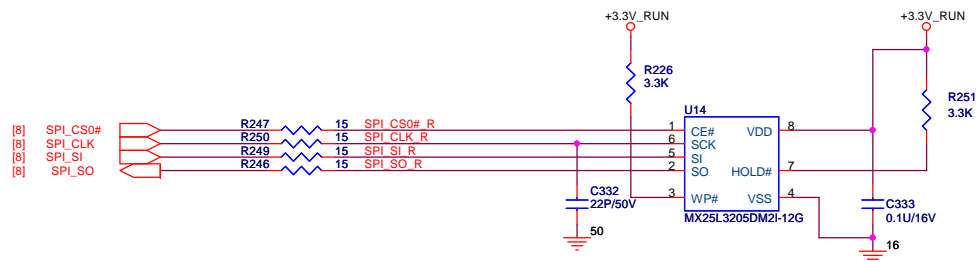
RTC BATTERY



For PCH

32Mbit (4M Byte)

2nd source:AKE39ZP0N00

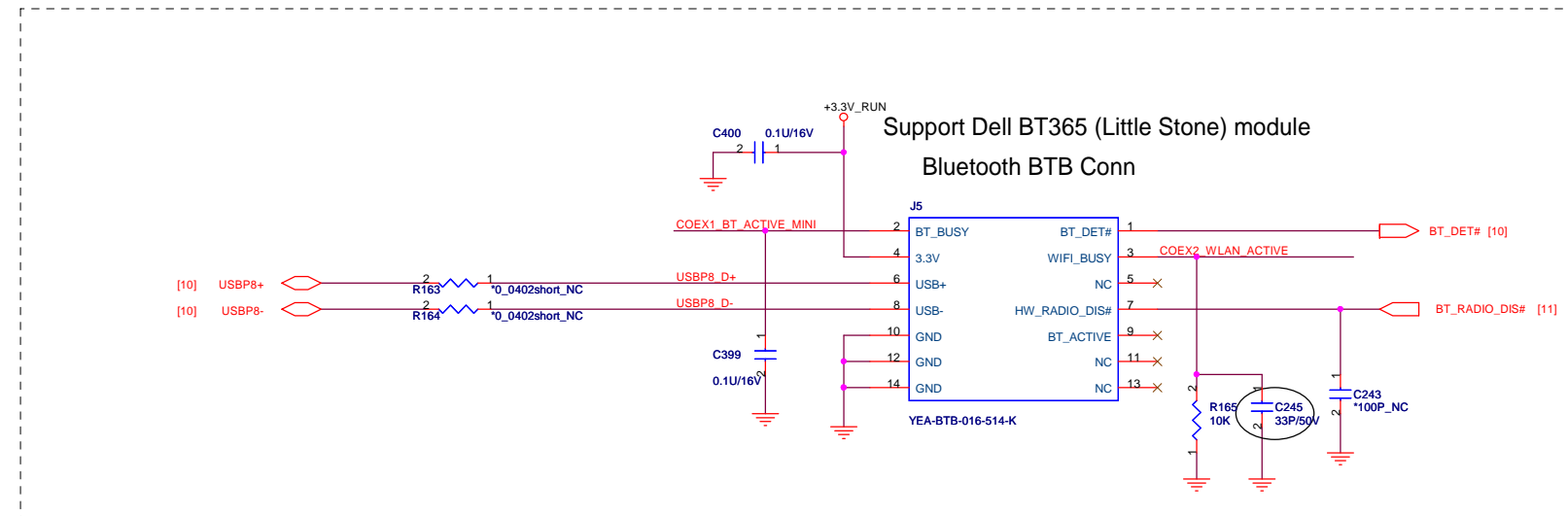
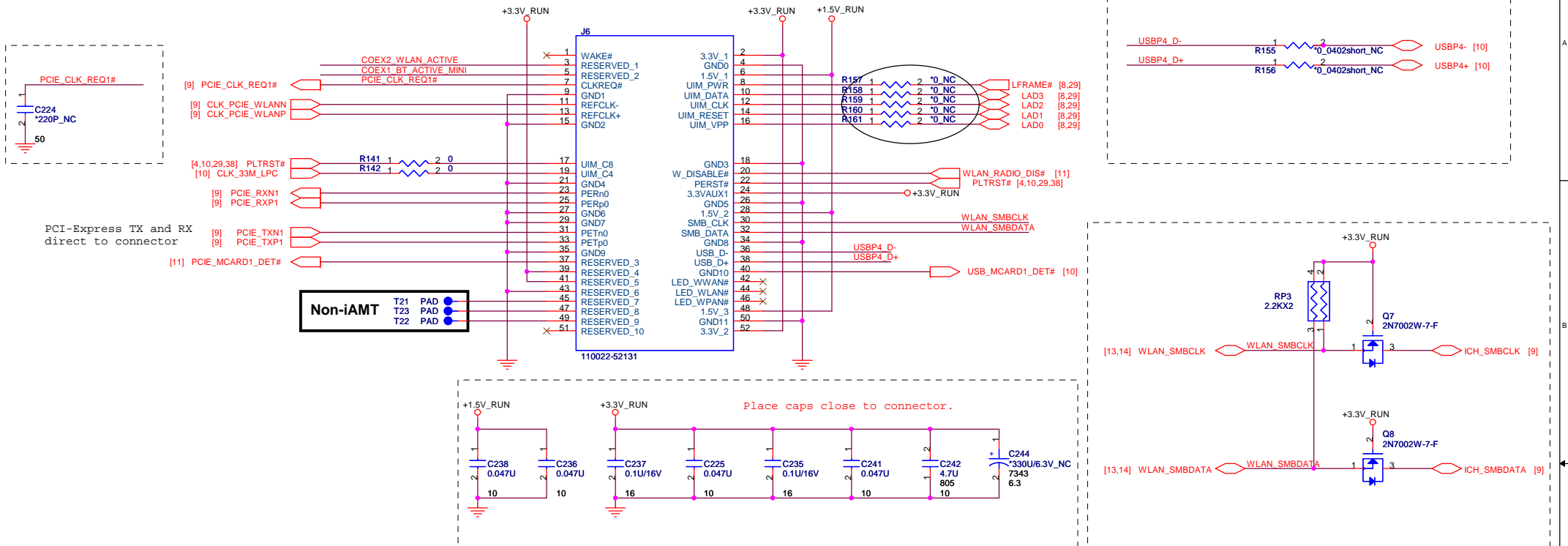


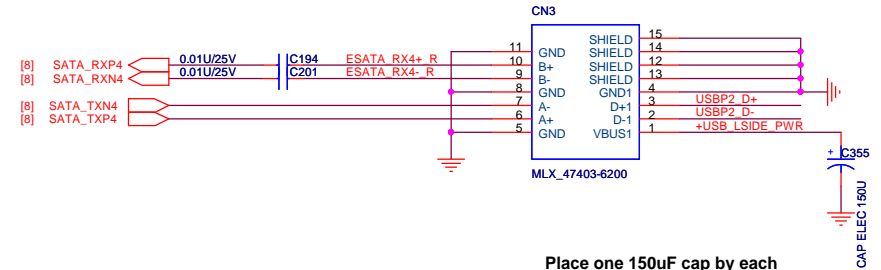
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PROJECT : UM7 UMA

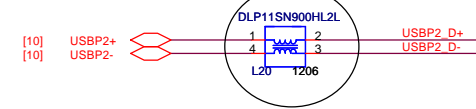
Size	Document Number	Rev
	FLASH/RTC	1A
Date:	Tuesday, February 02, 2010	Sheet 30 of 52

MiniCard WLAN connector

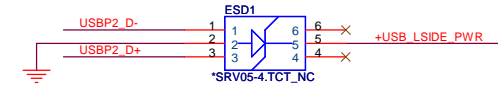




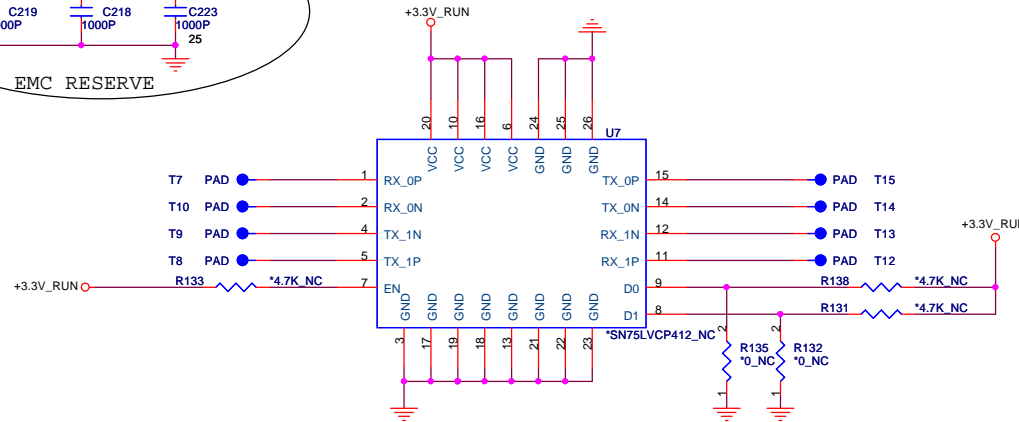
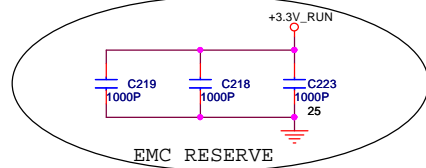
Platforms should put in PADS for the USB chokes if they have the room. Chokes should be NQPOP.



Place ESD diodes as close as USB connector.

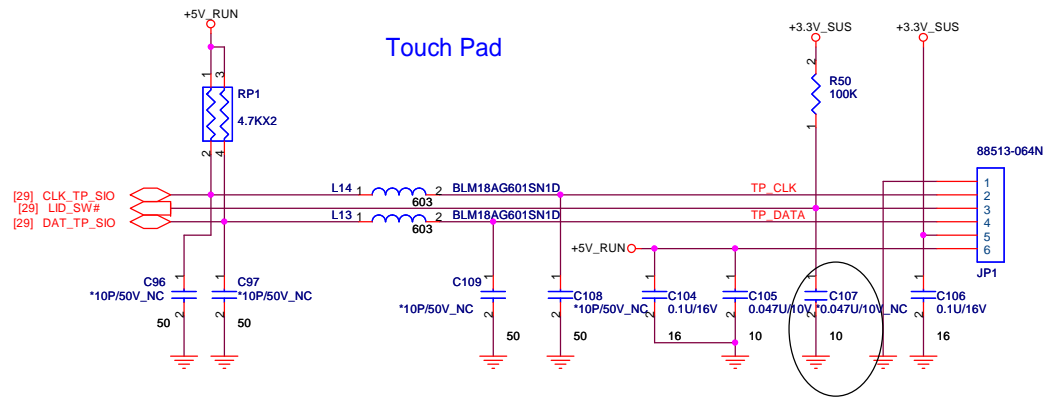


E-SATA Re-driver



Note: Boost:5dB, Standard SATA:0dB

EN	D0	D1	CH : 0	CH : 1
0	X	X	Standby	Standby
1	0	0	Standard SATA	Standard SATA
1	1	0	Boost	Standard SATA
1	0	1	Standard SATA	Boost
1	1	1	Boost	Boost

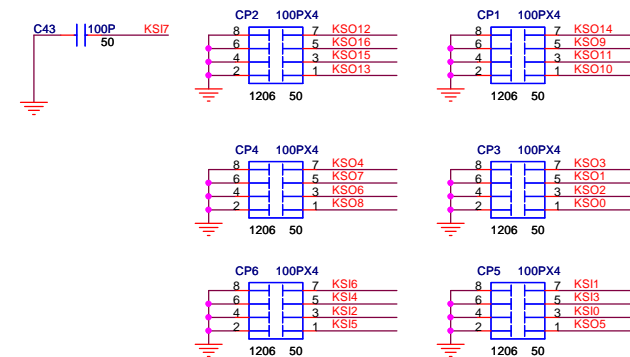


KEYBOARD CONNECTOR

Top side

[29] KSO[0..16]
[29] KSI[0..7]

[29] KB_DET#



100P CAPS CLOSE TO JKB1

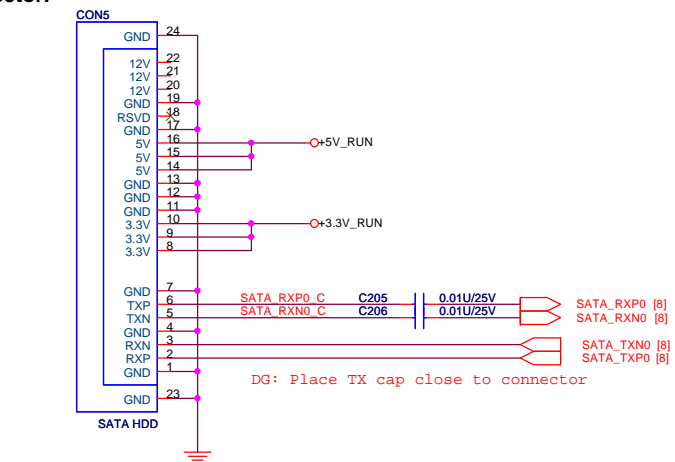


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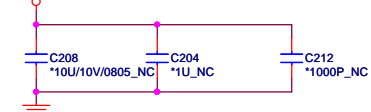
PROJECT : UM7 UMA

Size	Document Number	Rev
	TOUCH PAD, KB	1A
Date: Tuesday, January 19, 2010	Sheet 34 of 52	

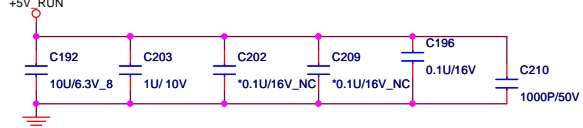
SATA Connector.



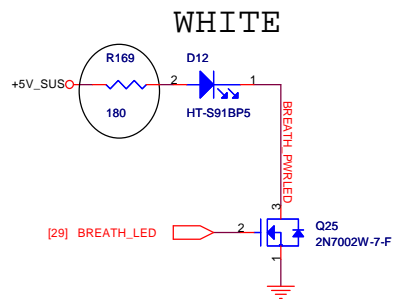
+3.3V_RUN Place caps close to connector.



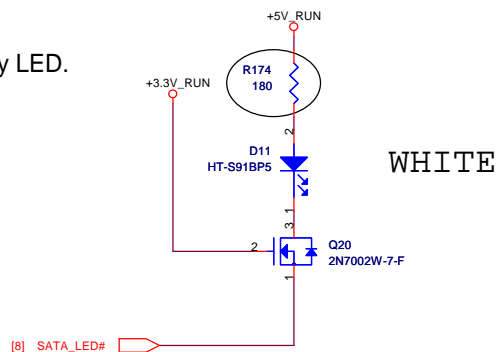
+5V_RUN Place caps close to connector.



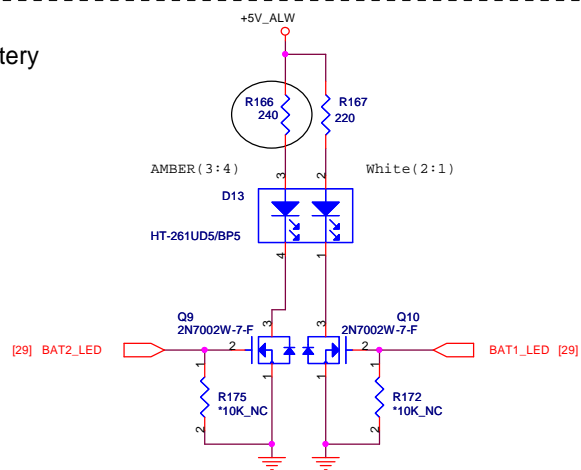
Power



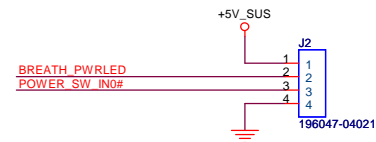
HDD activity LED.



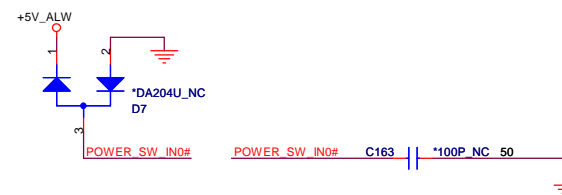
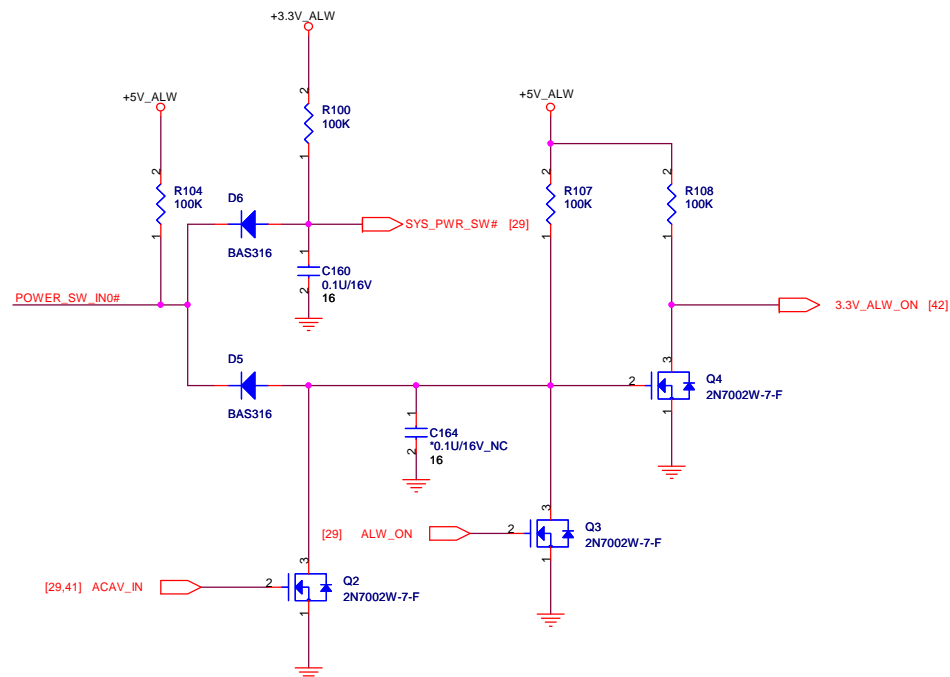
Battery



Power button Cable



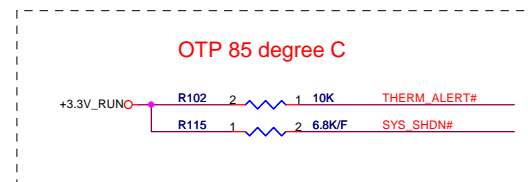
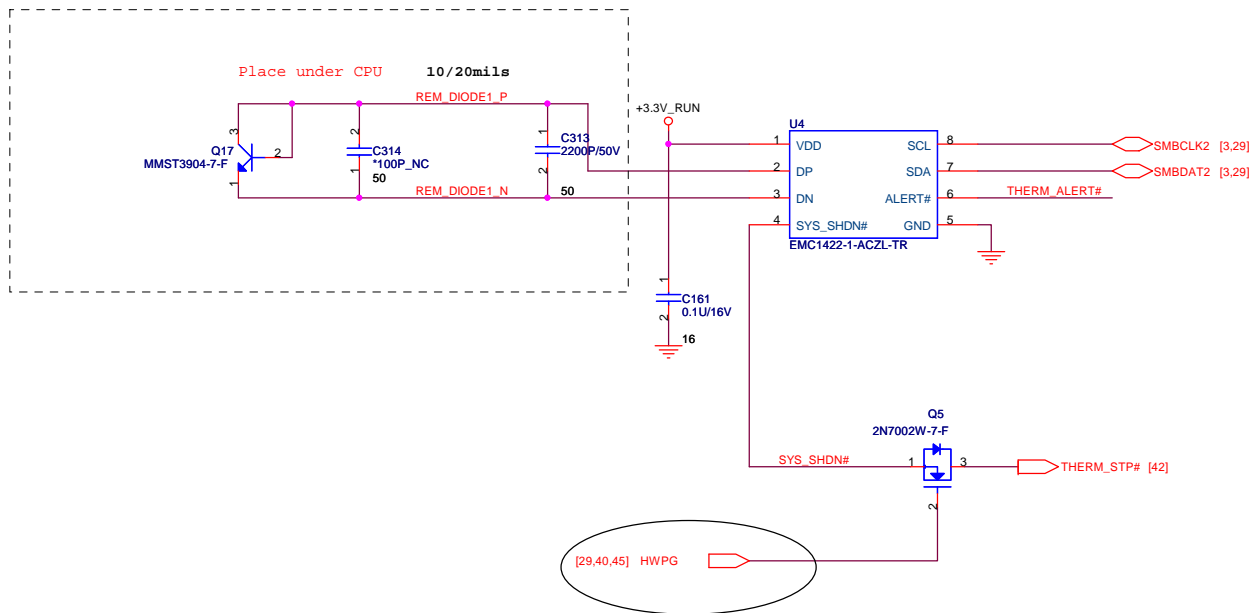
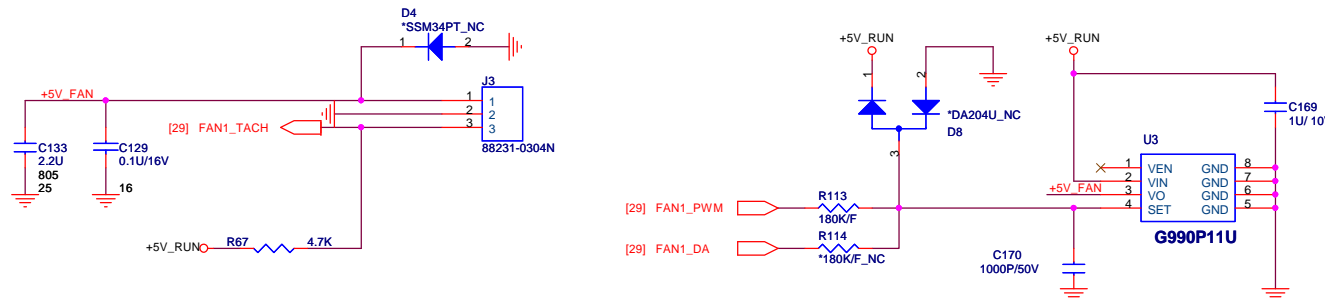
3VALW ON POWER LOGIC



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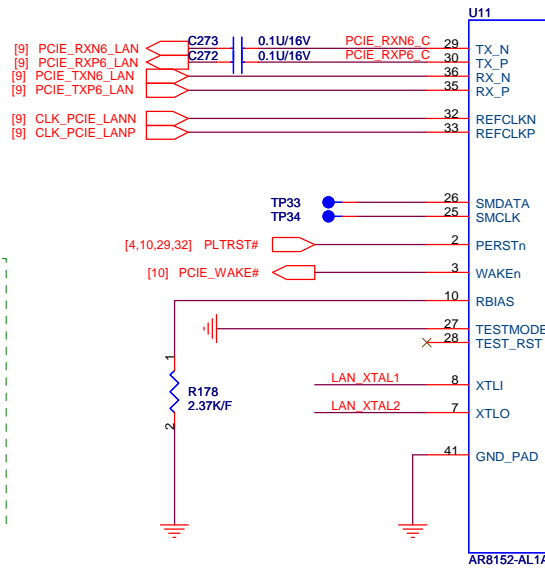
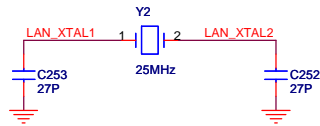
Size	Document Number	Rev
	SWITCH, LED	1A
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FAN CONTROL

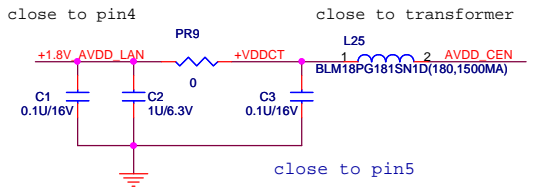
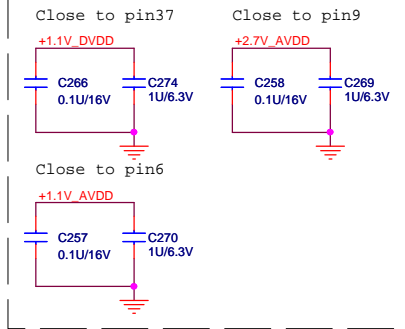


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Size	Document Number	Rev
	FAN & THERMAL	1A
Date:	Tuesday, January 19, 2010	Sheet 37 of 52



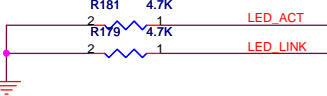
Atheros AR8151 AR8152



LDO MODE

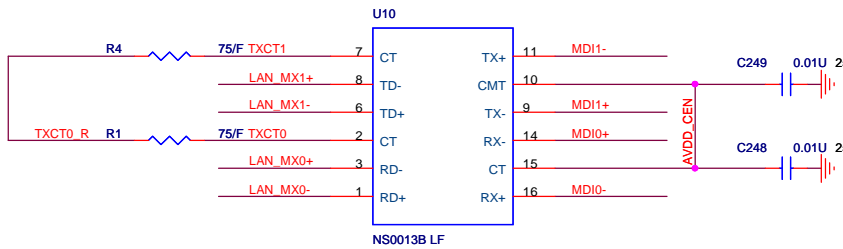
PWR-ON-STRAPPING

	SWR	LDO
LED_LINK	1	0
LED_ACT	0/C	NO/C
LED_LINK	1	0

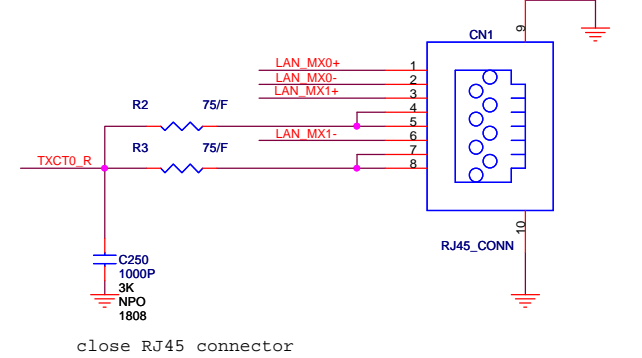


These Caps close LAN Chip VDD33 pins

TRANSFORMER



RJ45



close RJ45 connector

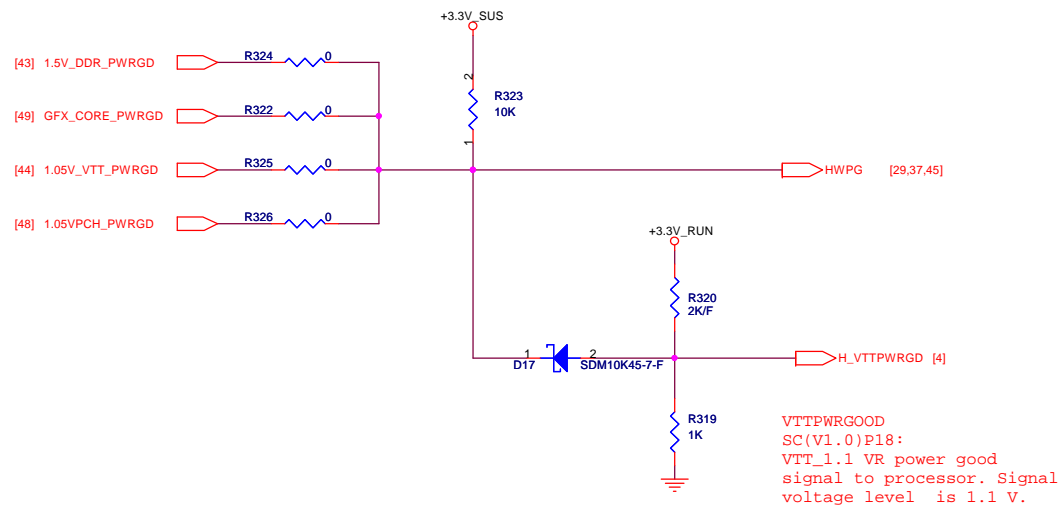


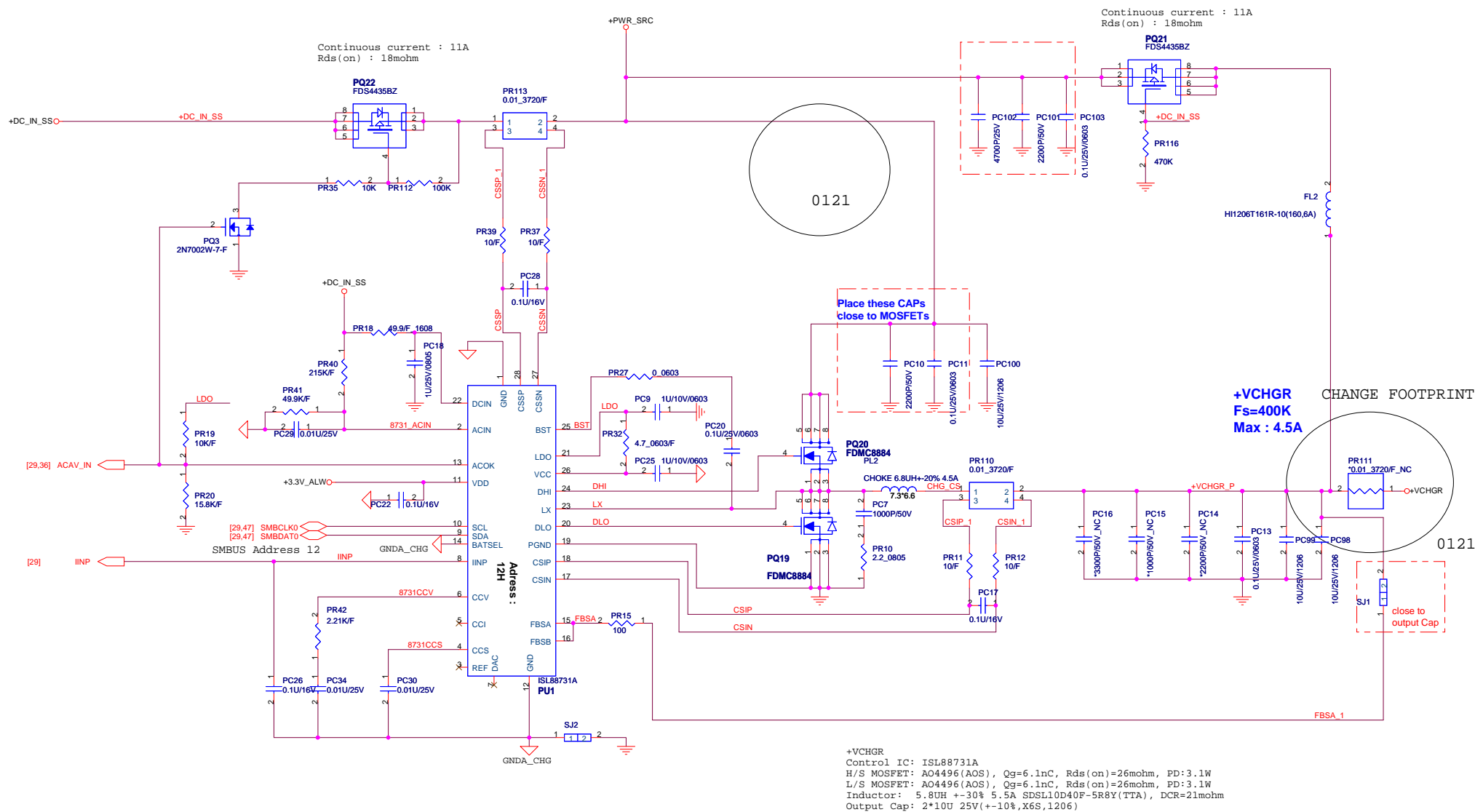
Quanta Computer Inc.

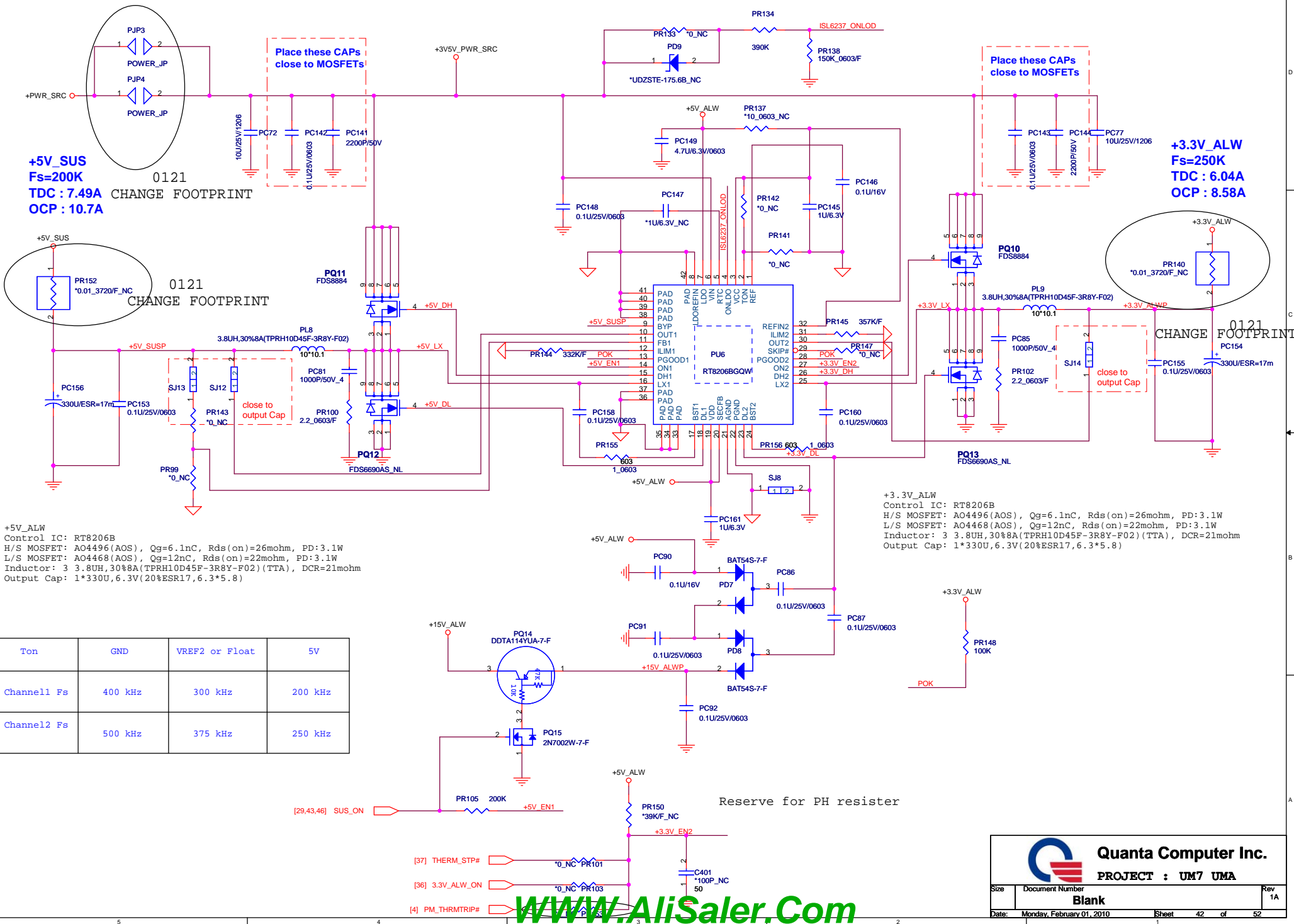
PROJECT : UM7 UMA

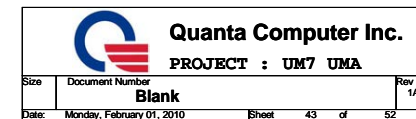
Size Document Number LAN(AR8152/RJ-45) Rev 1A

Date: Tuesday, February 02, 2010 Sheet 38 of 52



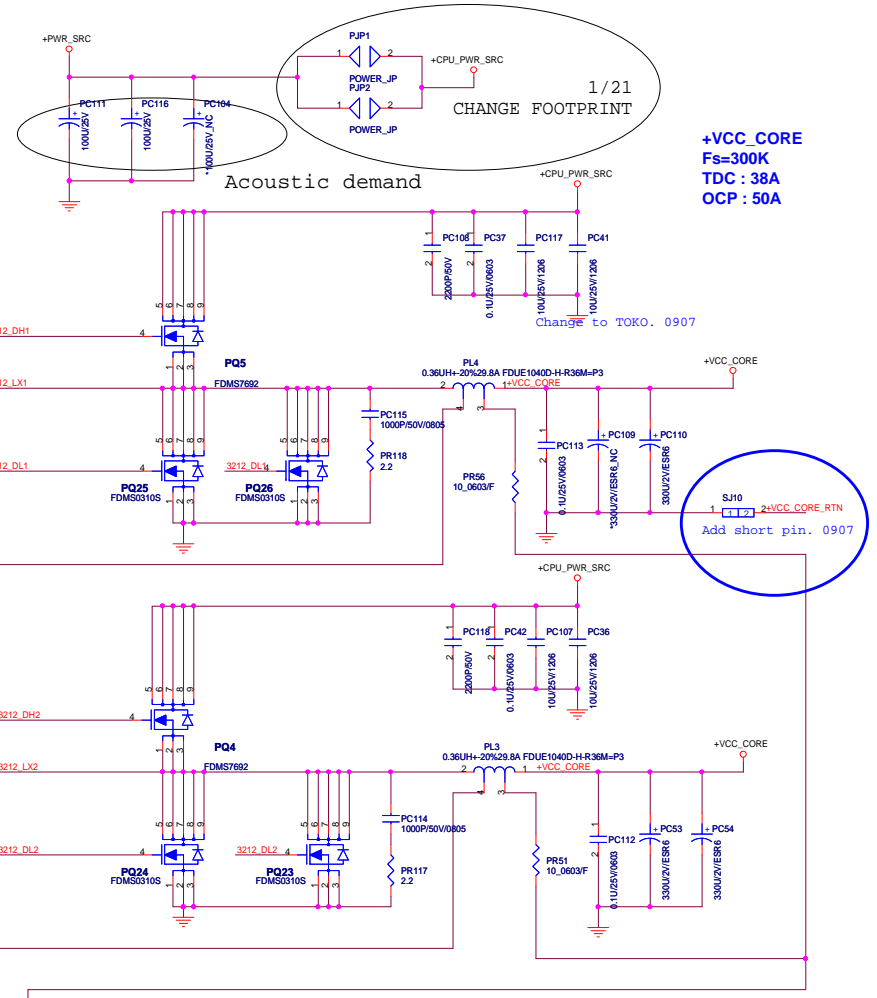
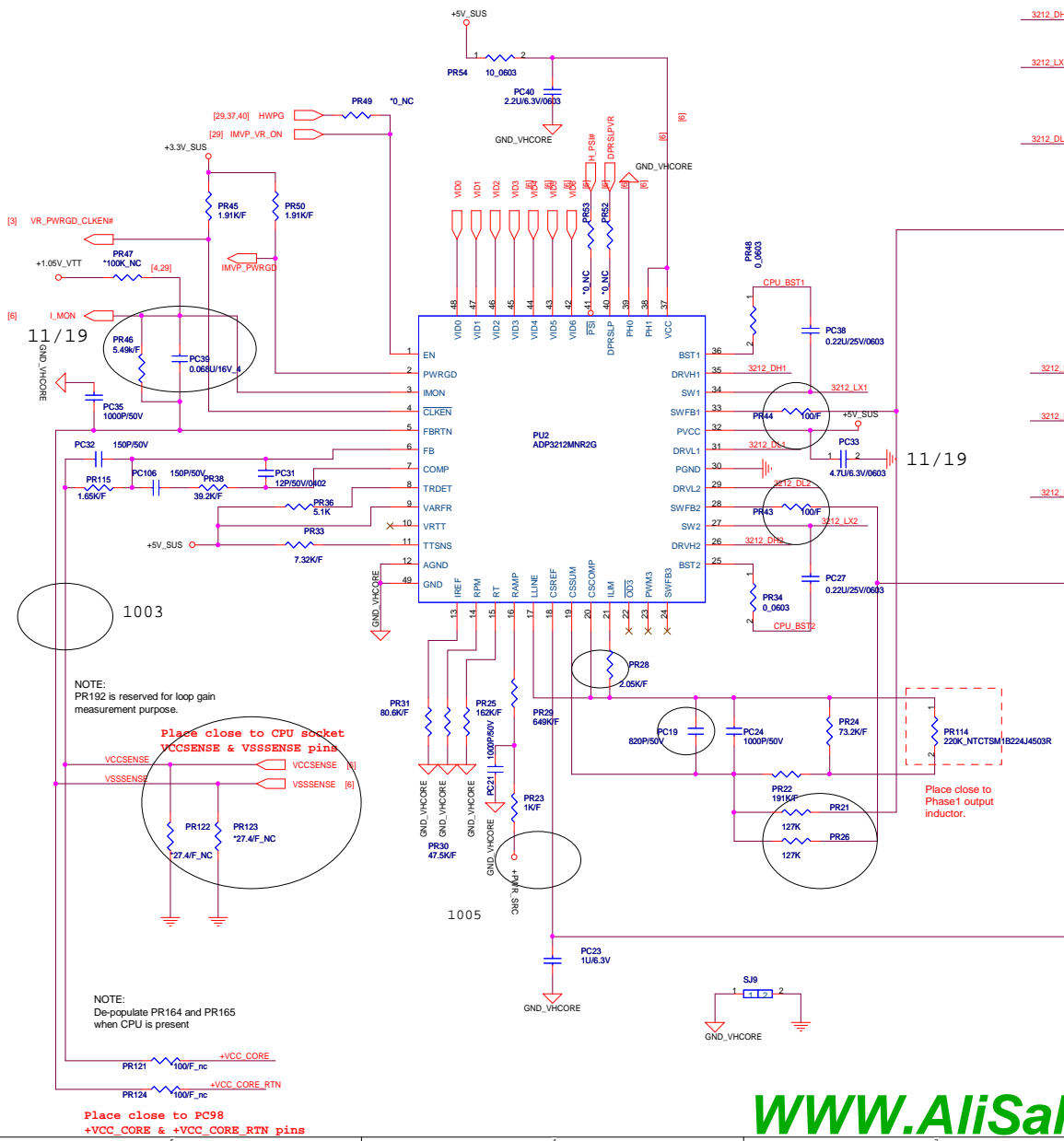




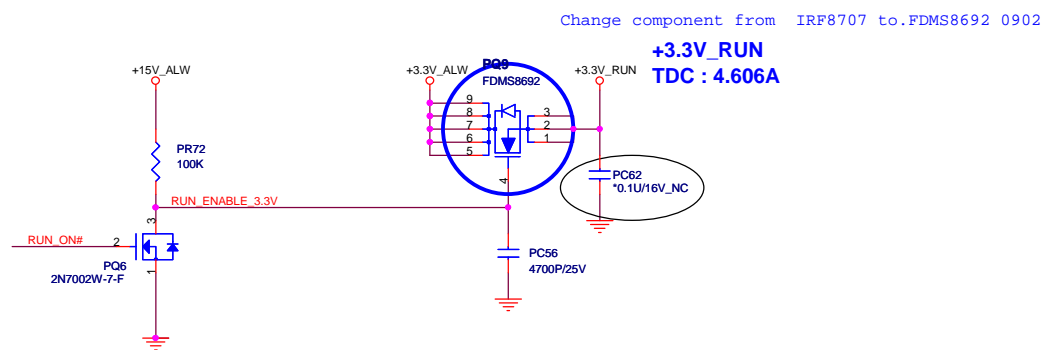
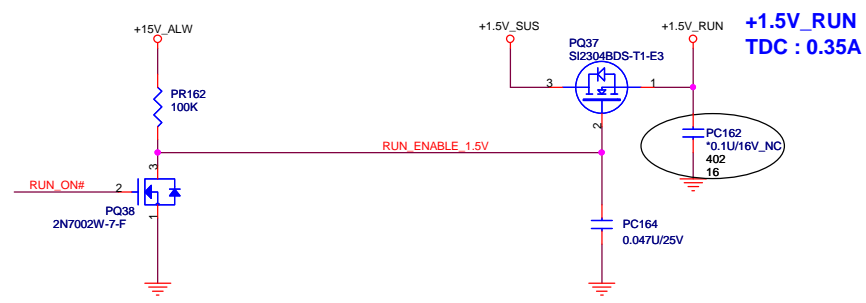
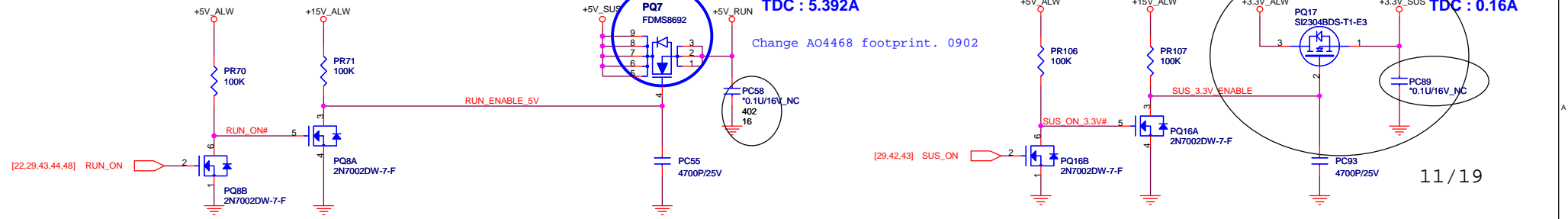


State	S3	S5	VDDQ	VTTREF	VTT
S0	HI	HI	On	On	On
S3	LO	HI	On	On	Off (Hi-Z)
S4/S5	LO	LO	On (discharge)	Off (discharge)	Off (discharge)

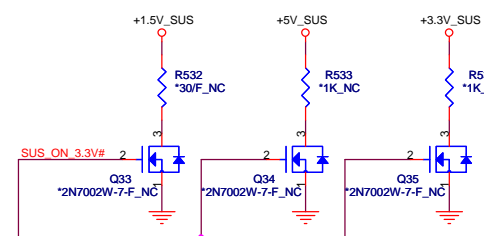
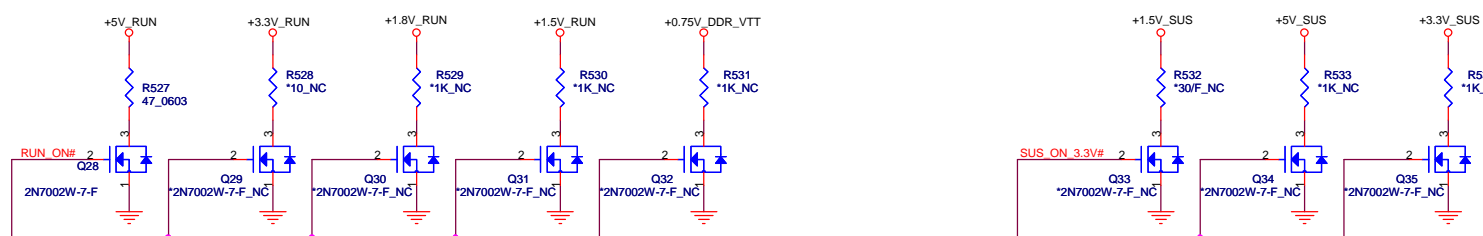


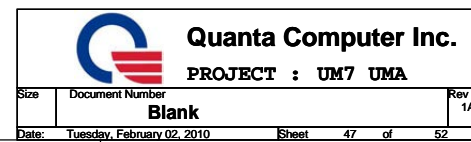


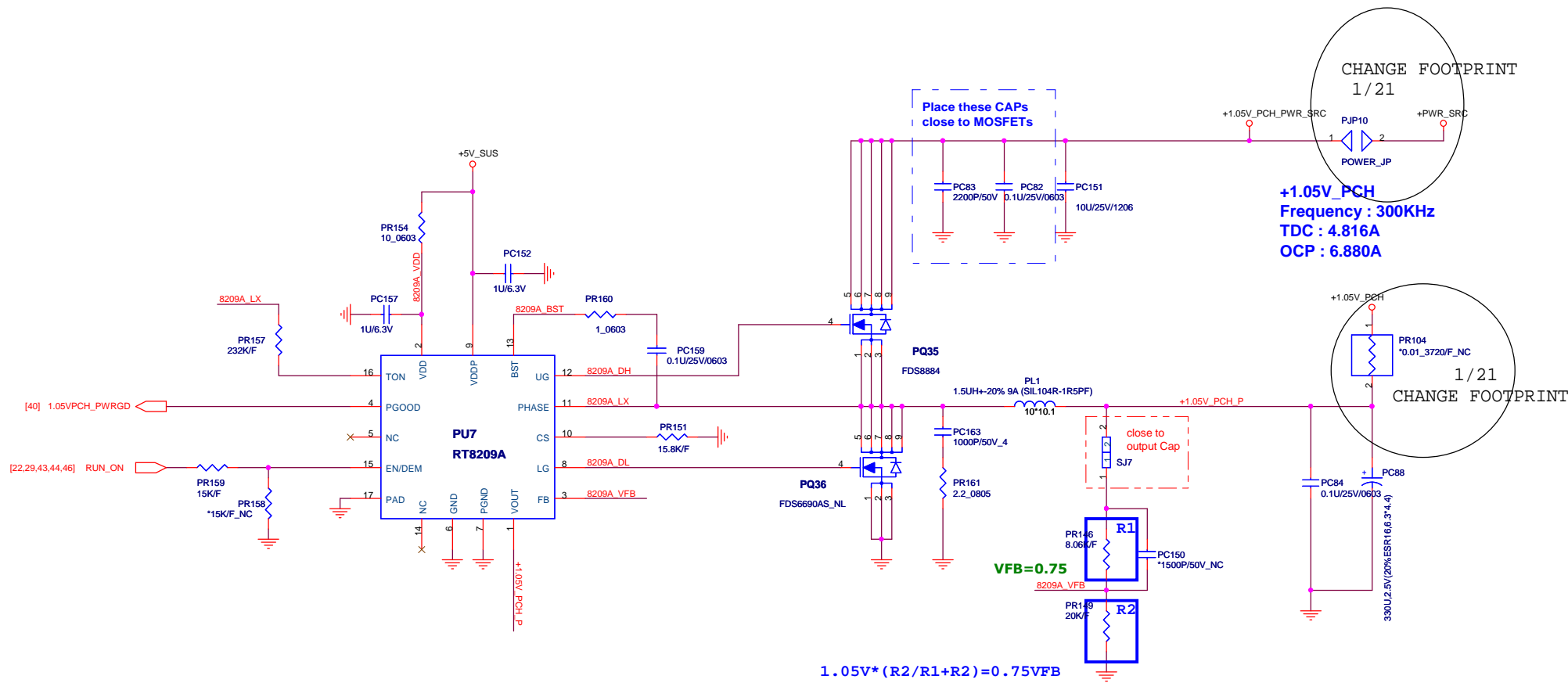
+VCC_CORE
Control IC: ADP3212
H/S MOSFET: FDM58692(Fairchild), Qg=11nC, Rds(on)=14mohm, PD:2.5W
L/S MOSFET: FDM57660(Fairchild), Qg=84nC, Rds(on)=2.7mohm, PD:2.5W
Inductor: 0.36uH +/-20% 45A(MPO104F-R3611)(Delta), DCR=0.89mohm
Output Cap: 4*330U 2V(20%,ESR=6,7343,H1.9)



Reserve discharge path







+1.05V_PCH
Control IC: RT8209A
H/S MOSFET: AO4496(AOS), Qg=6.1nC, Rds(on)=26mohm, PD:3.1W
L/S MOSFET: AO4468(AOS), Qg=12nC, Rds(on)=22mohm, PD:3.1W
Inductor: 1.5UH+-20% 9A (10D40F-1R5M)(TTA), DCR=10.5mohm
Output Cap: 1*390U, 2.5V(20%, 105C, 6.3*5.8), ESR=10mohm

