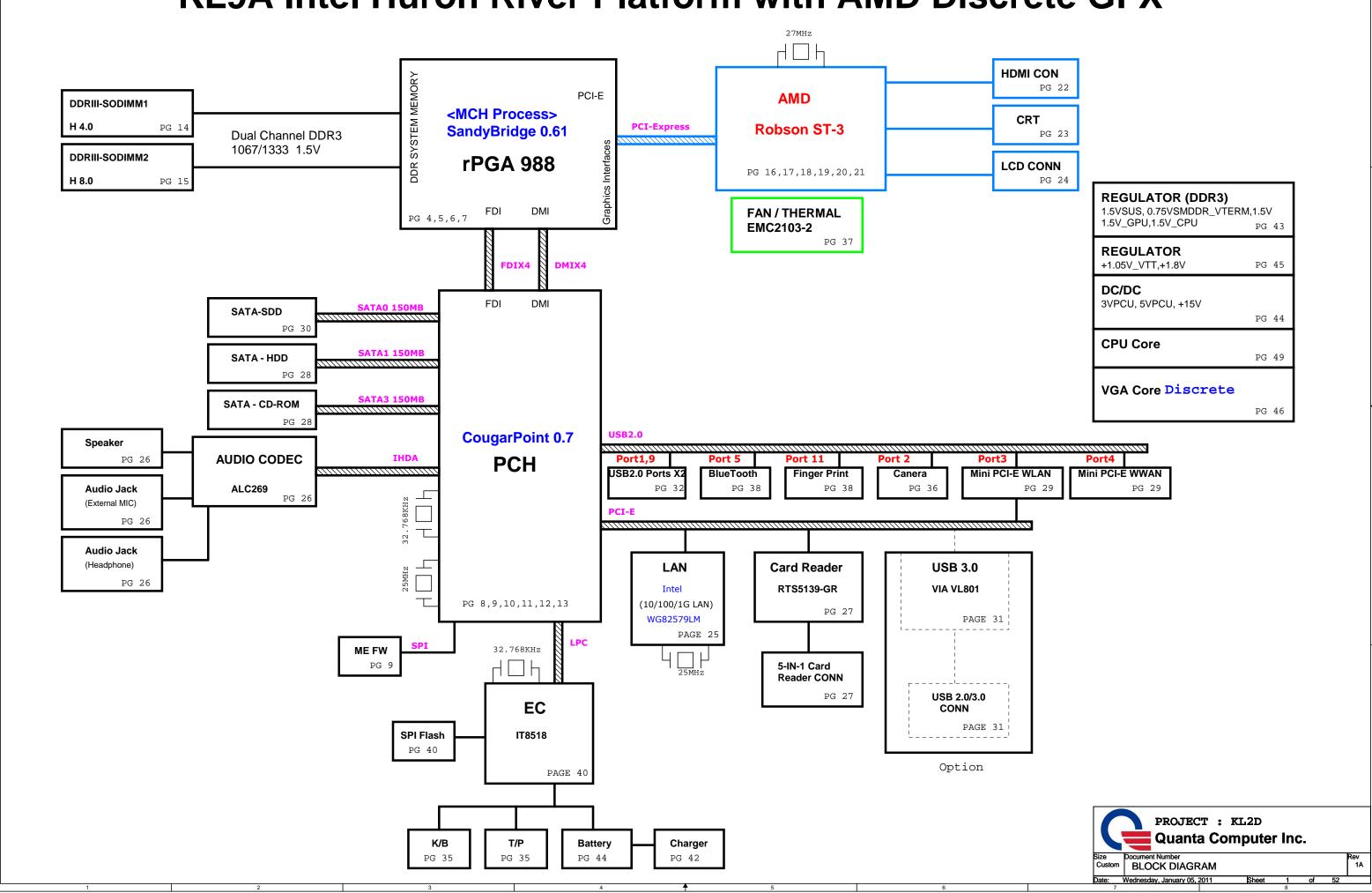
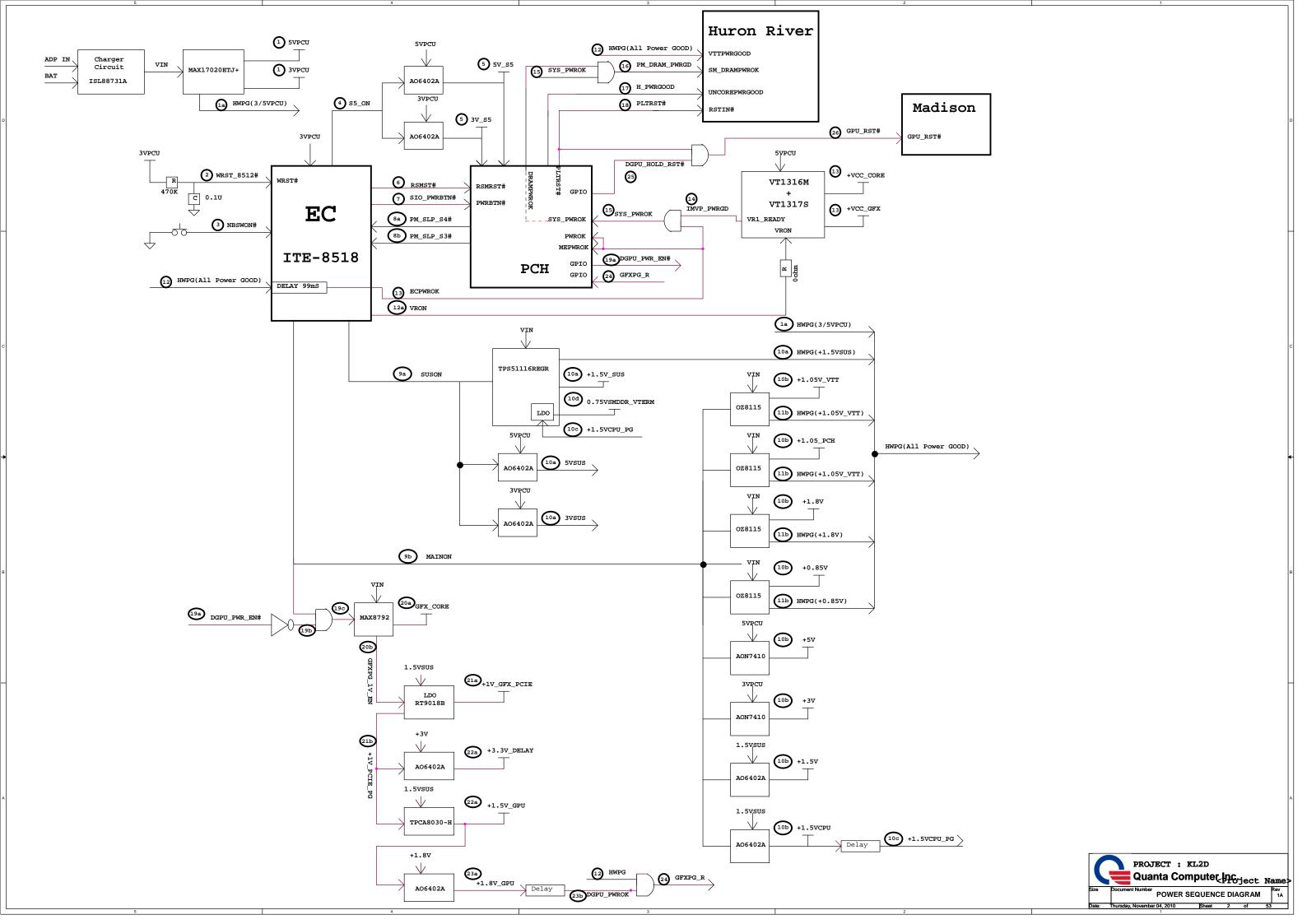
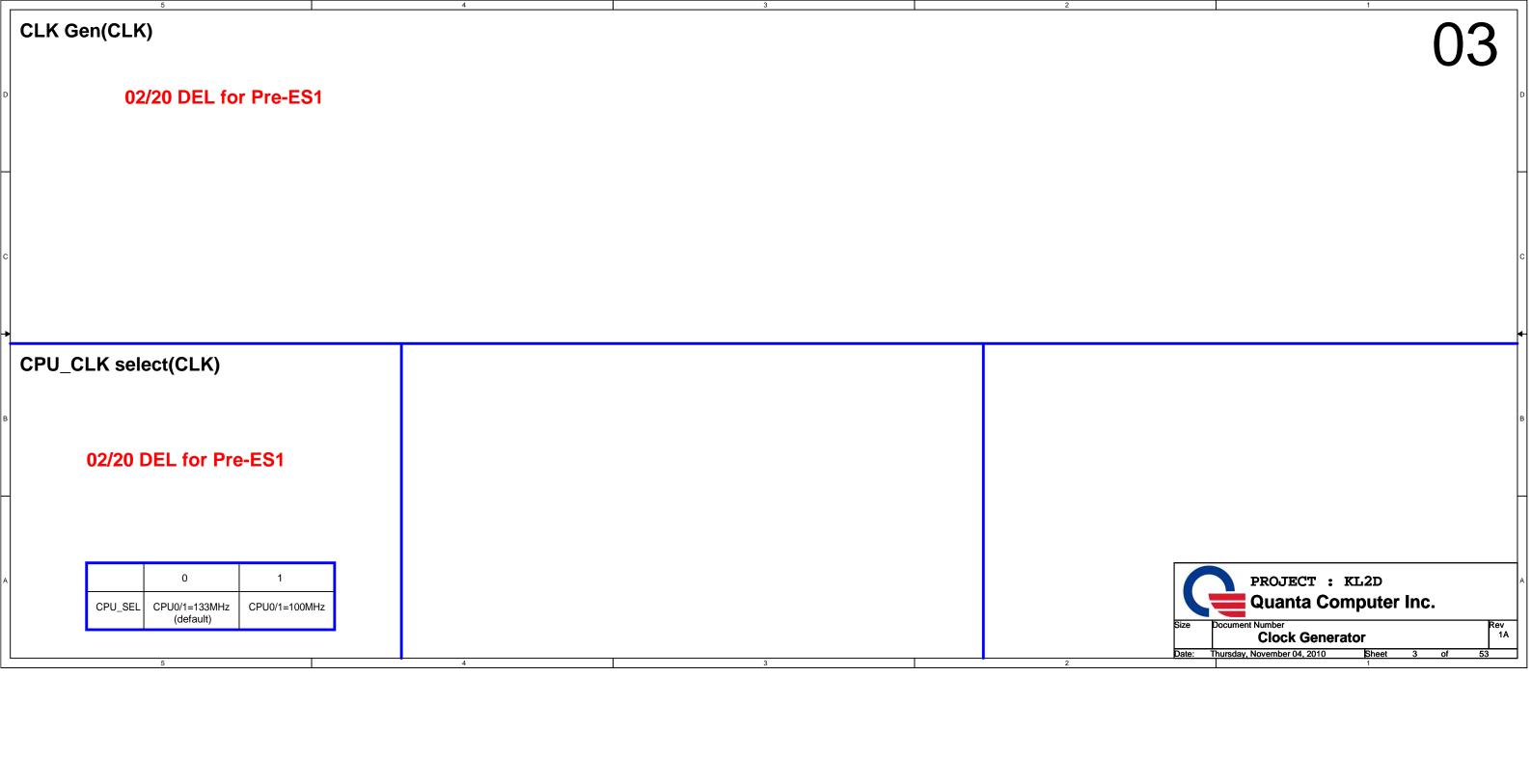
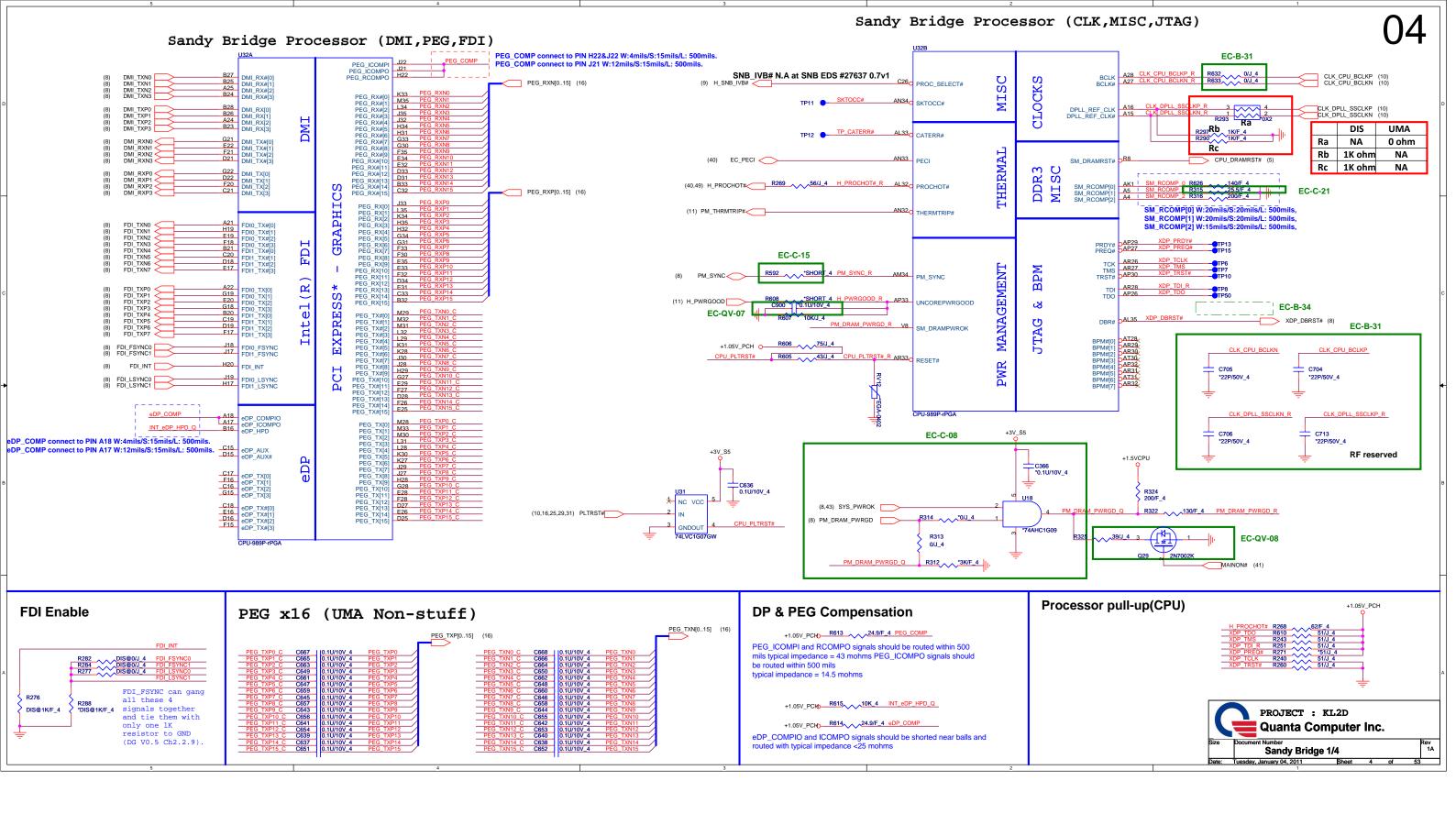
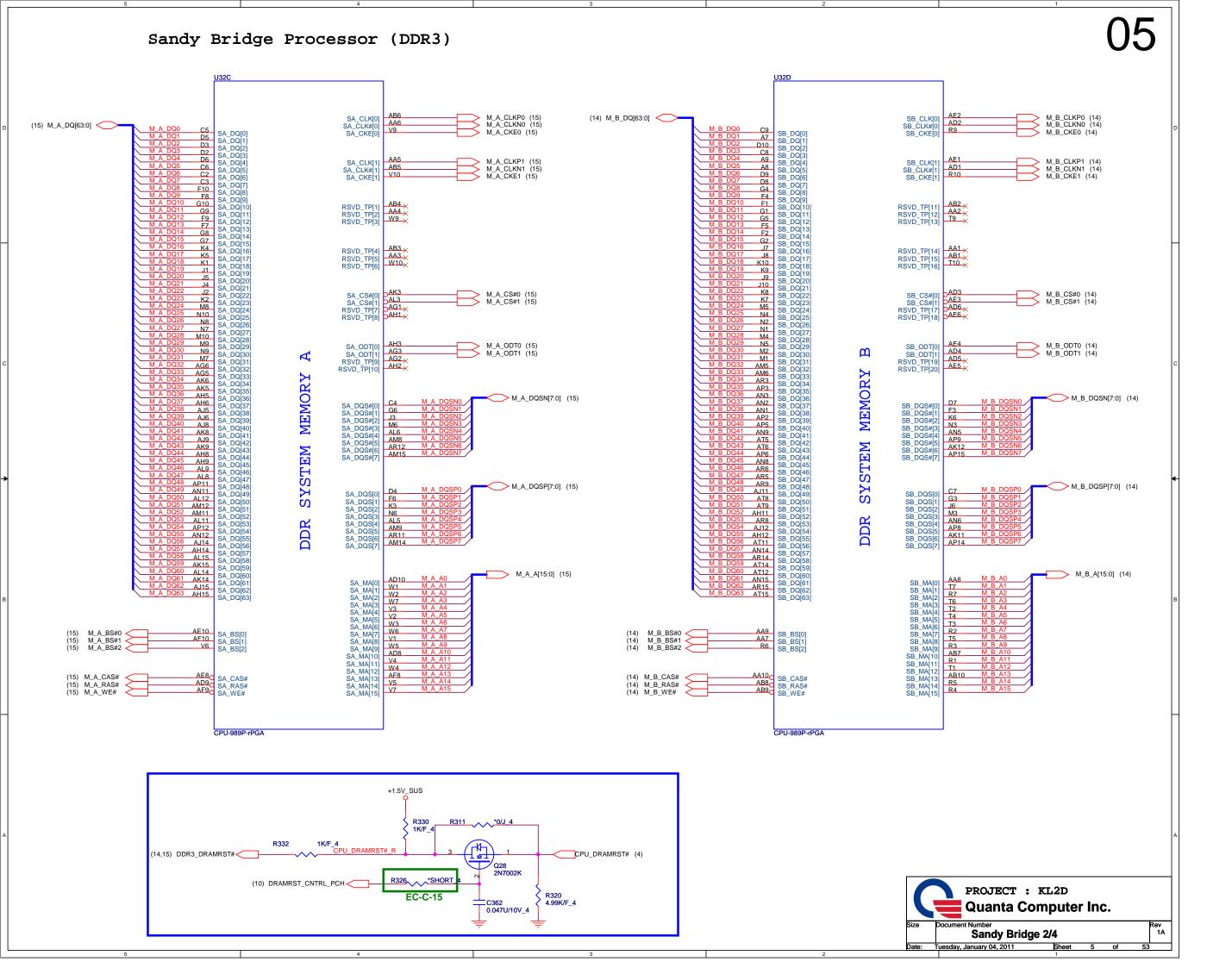
KL9A Intel Huron River Platform with AMD Discrete GFX

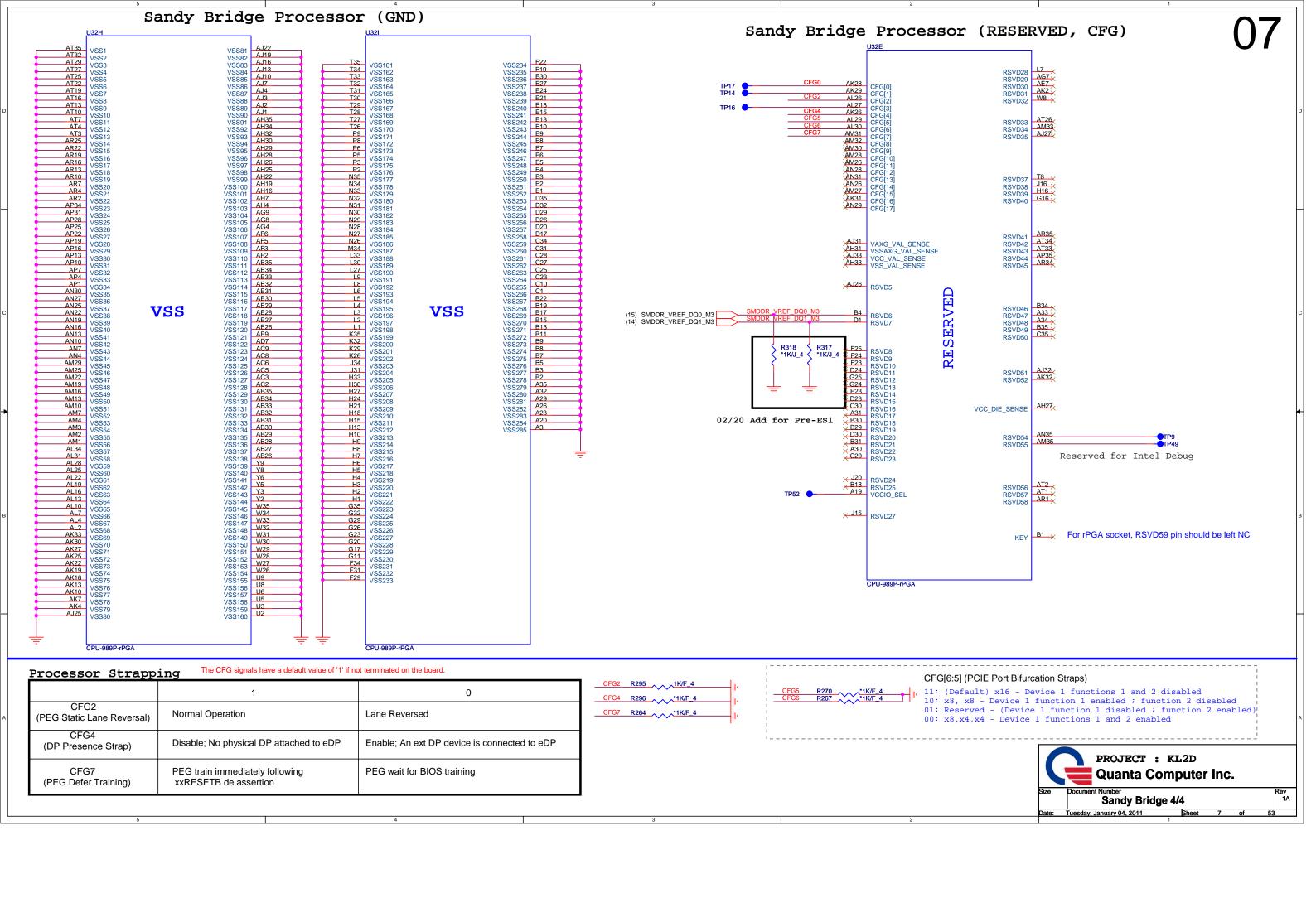


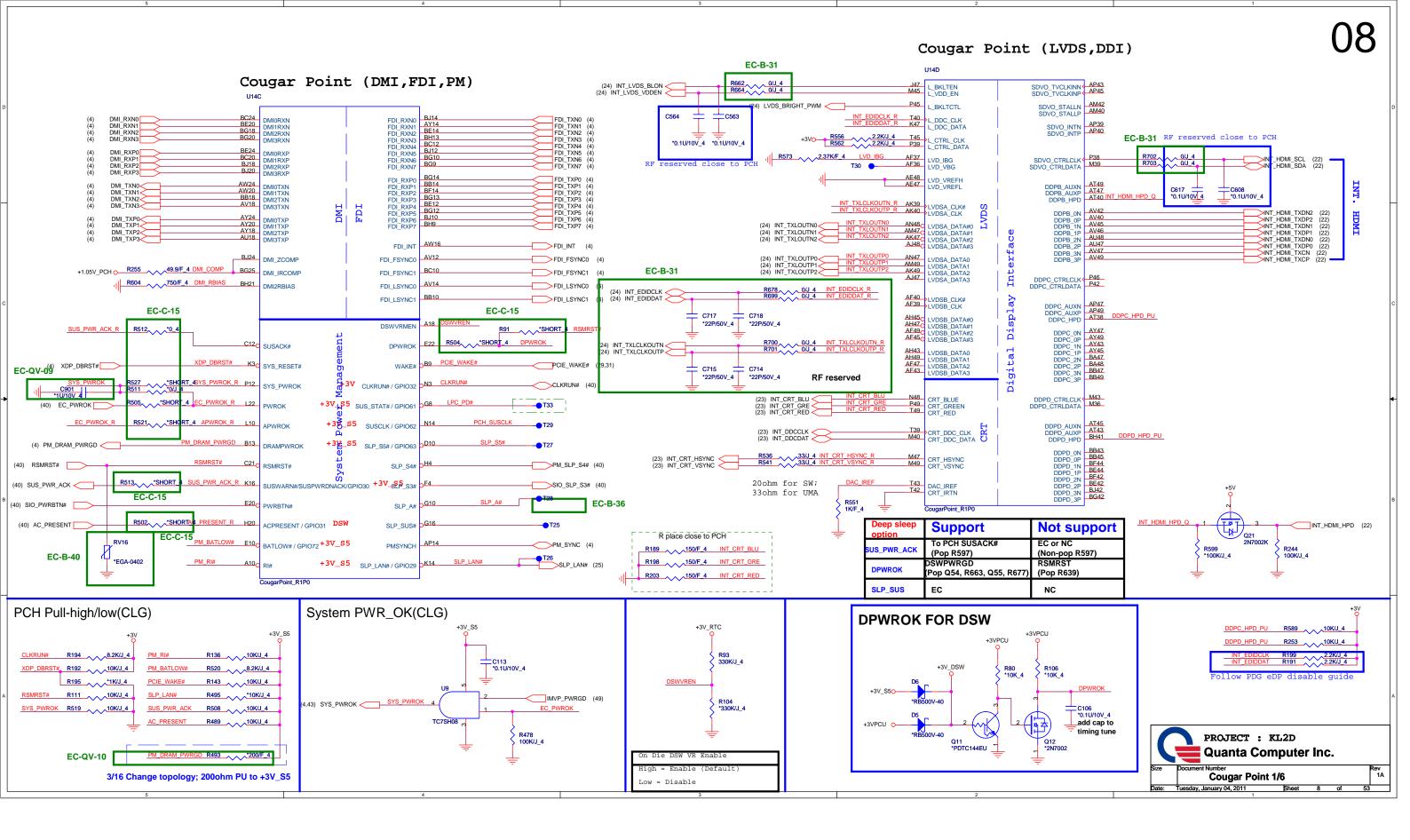


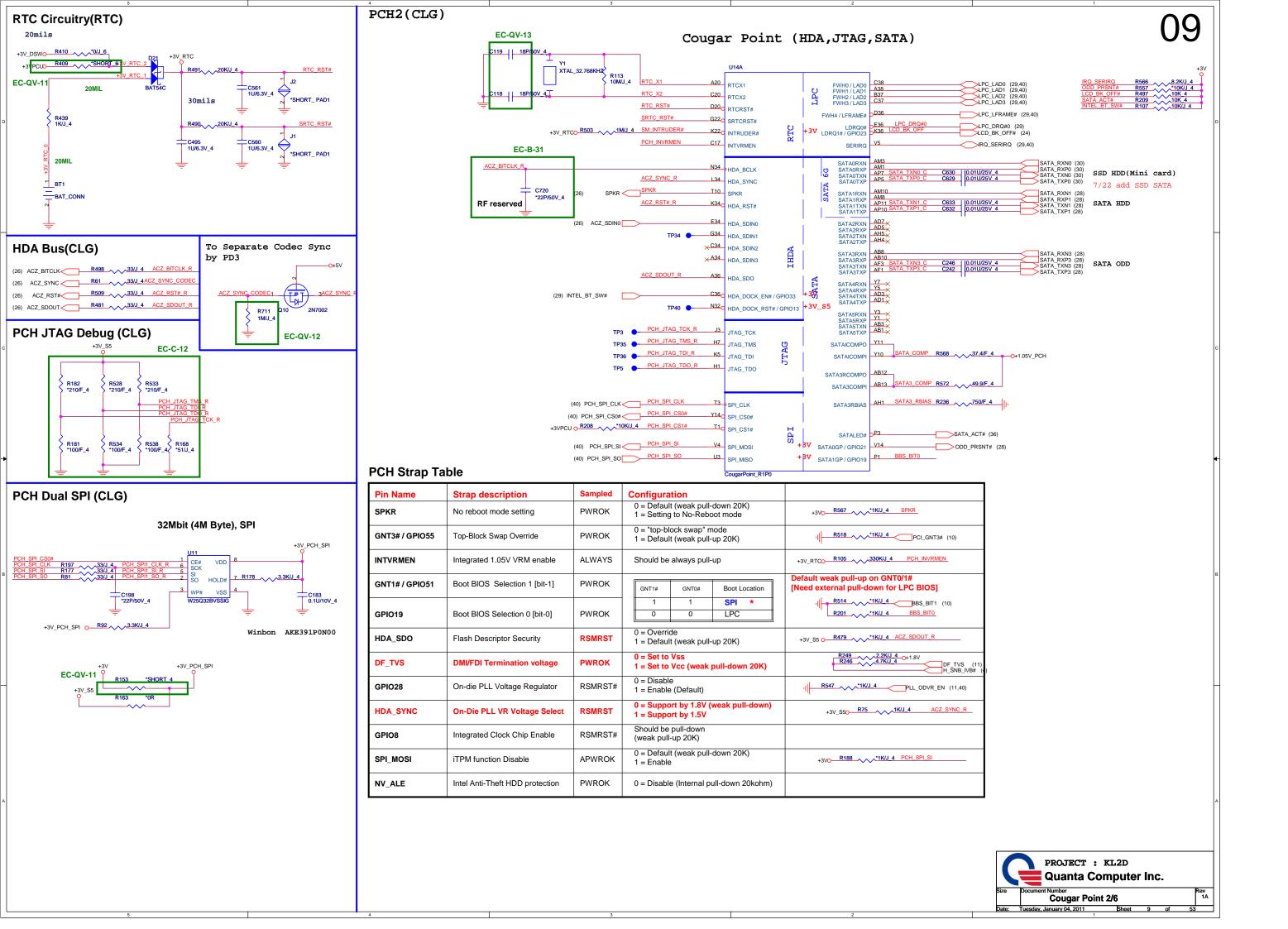


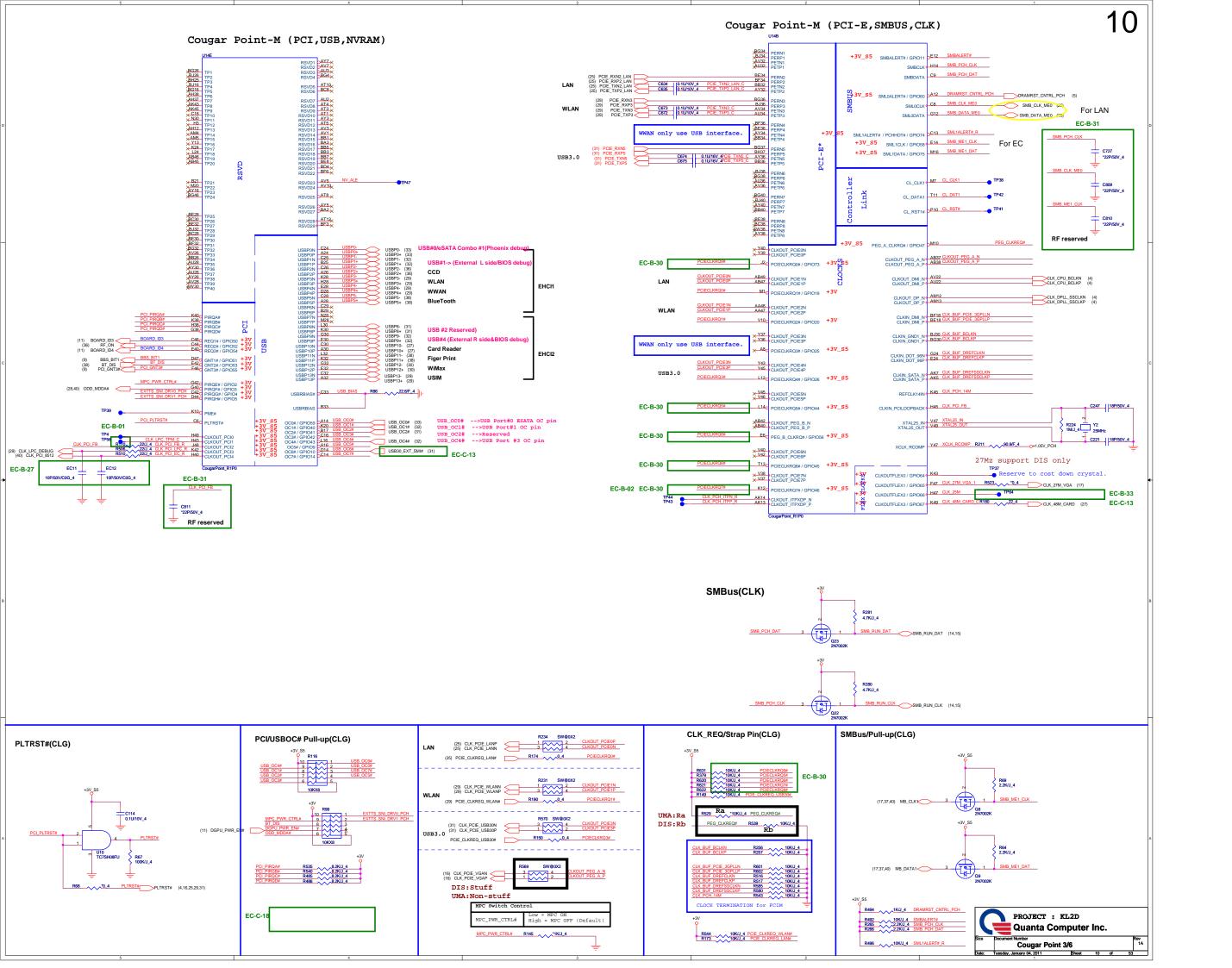


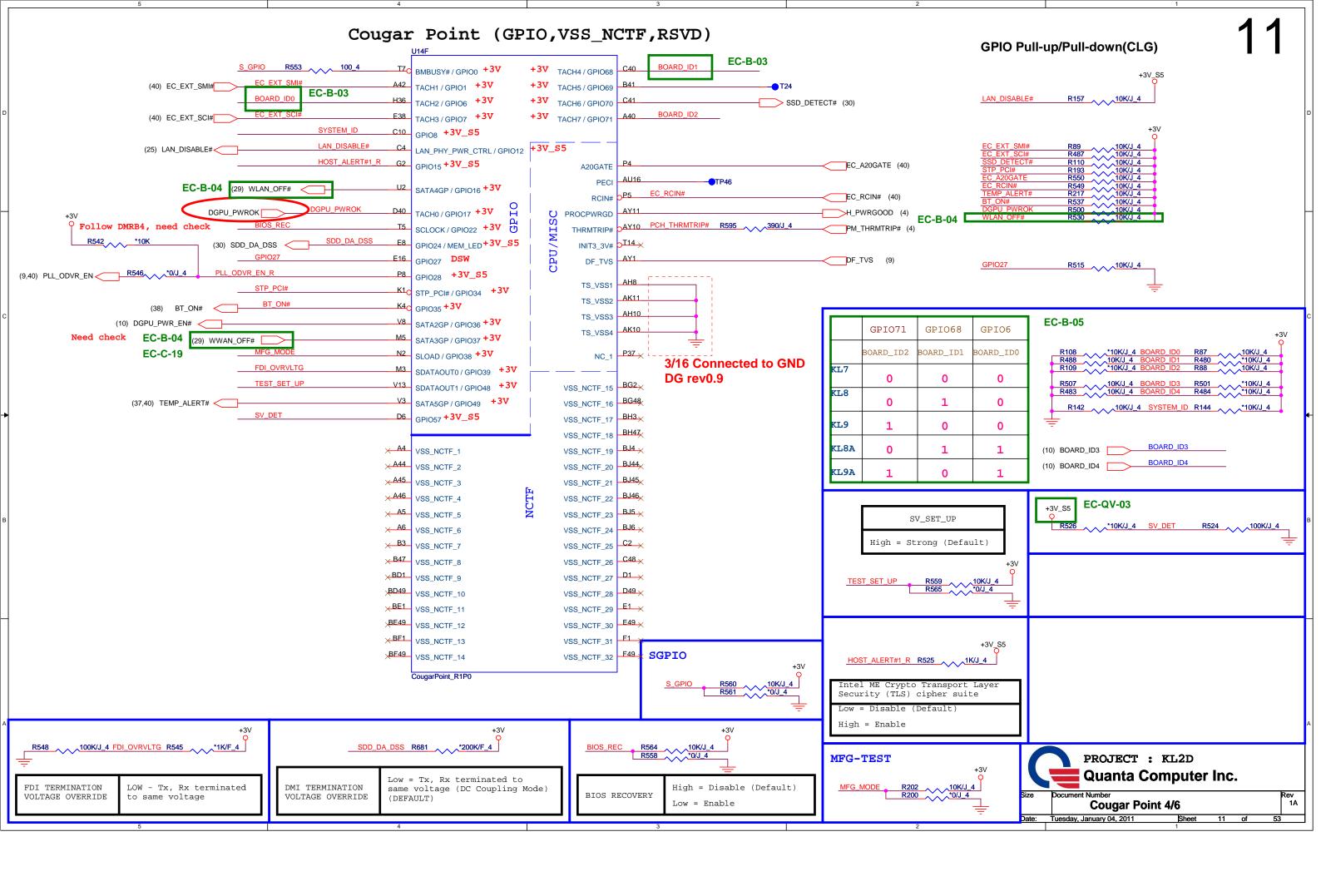


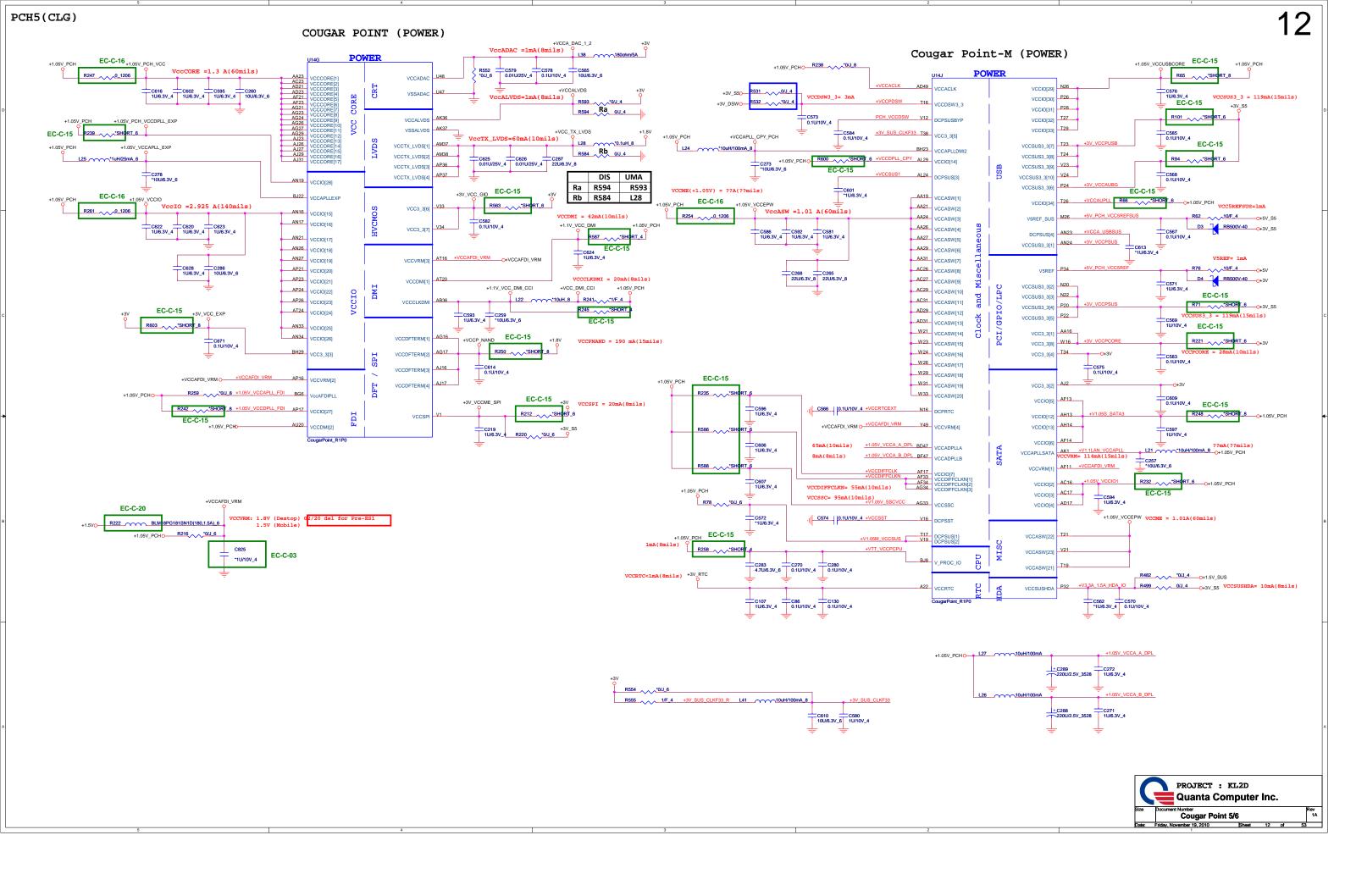


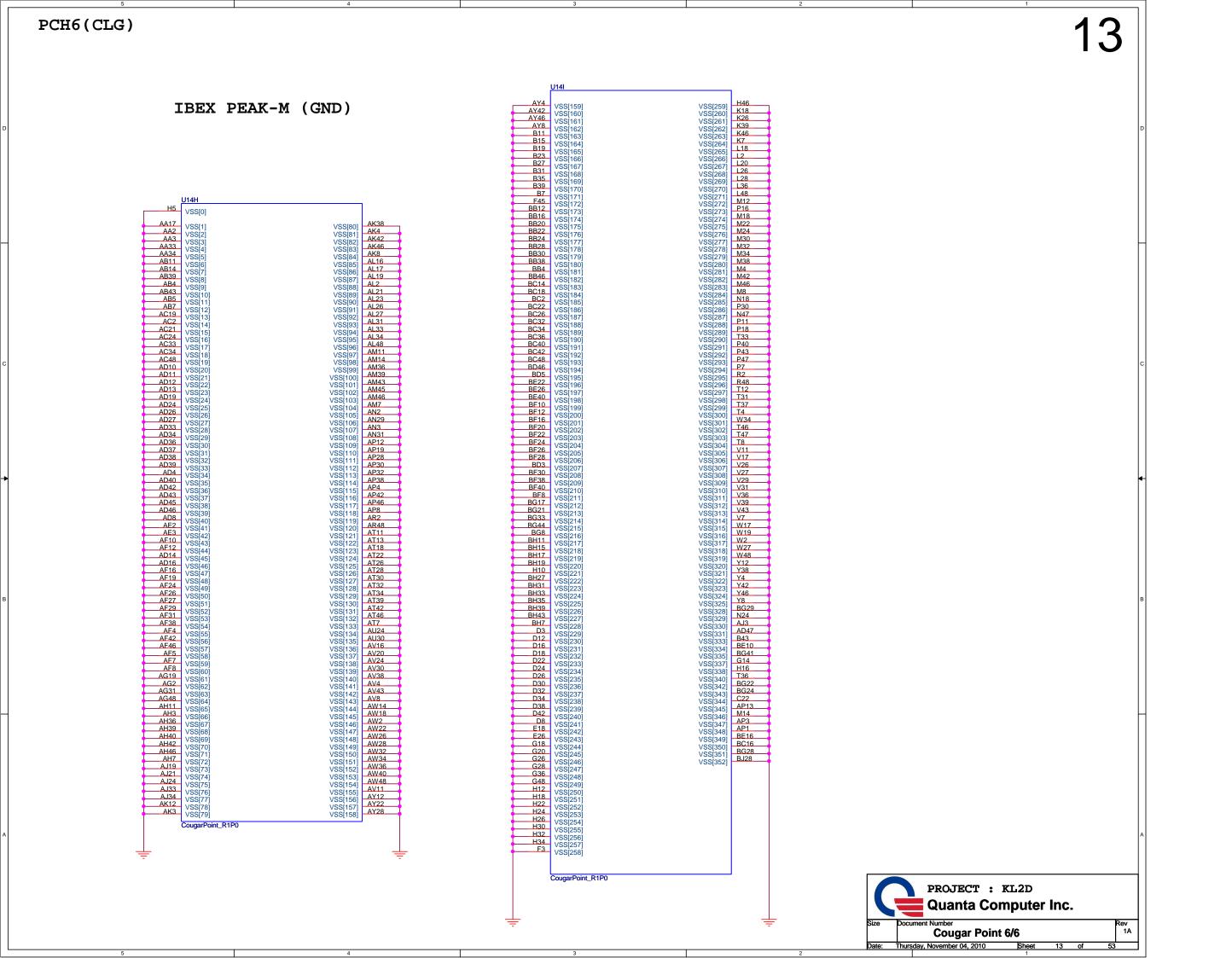


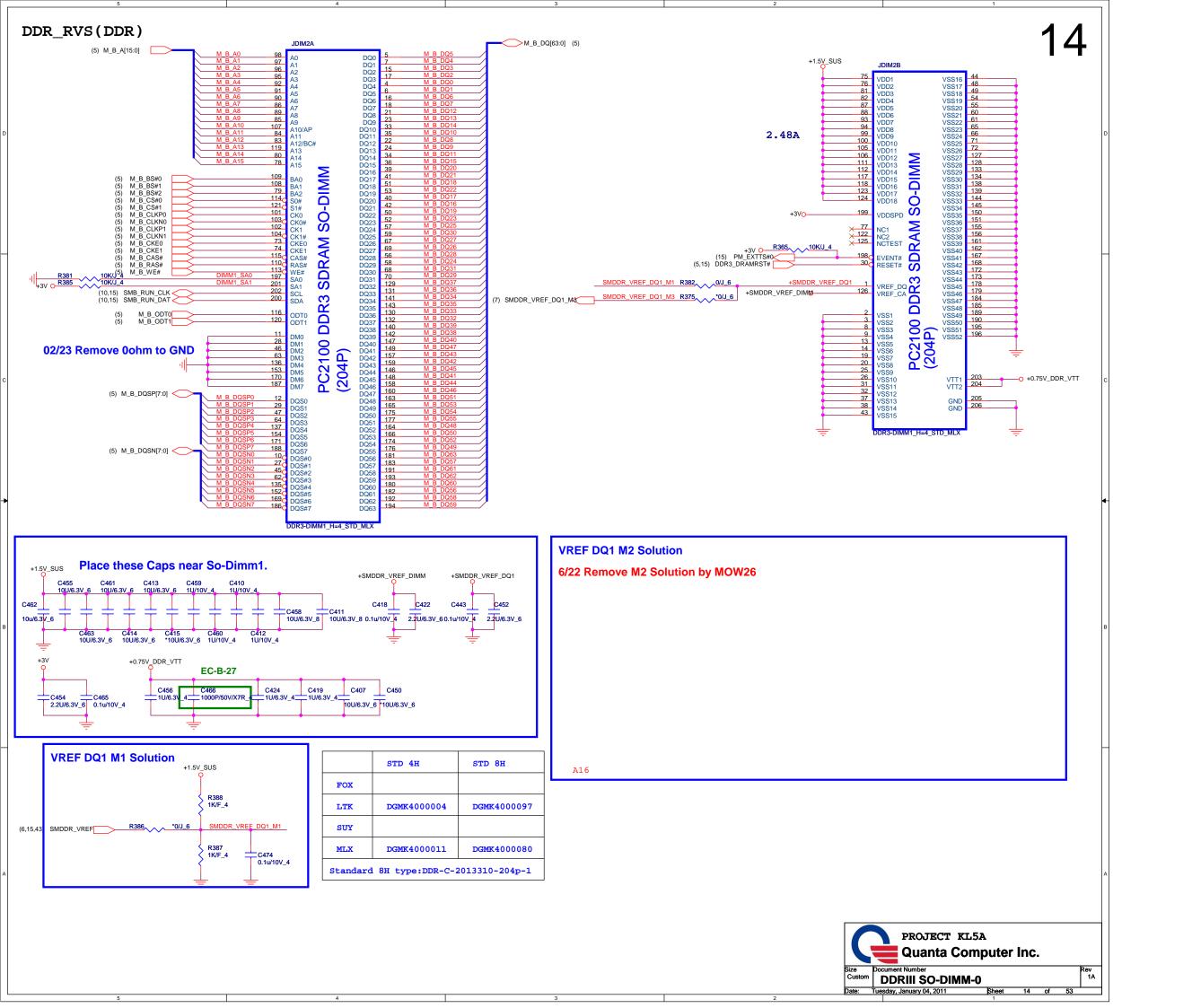


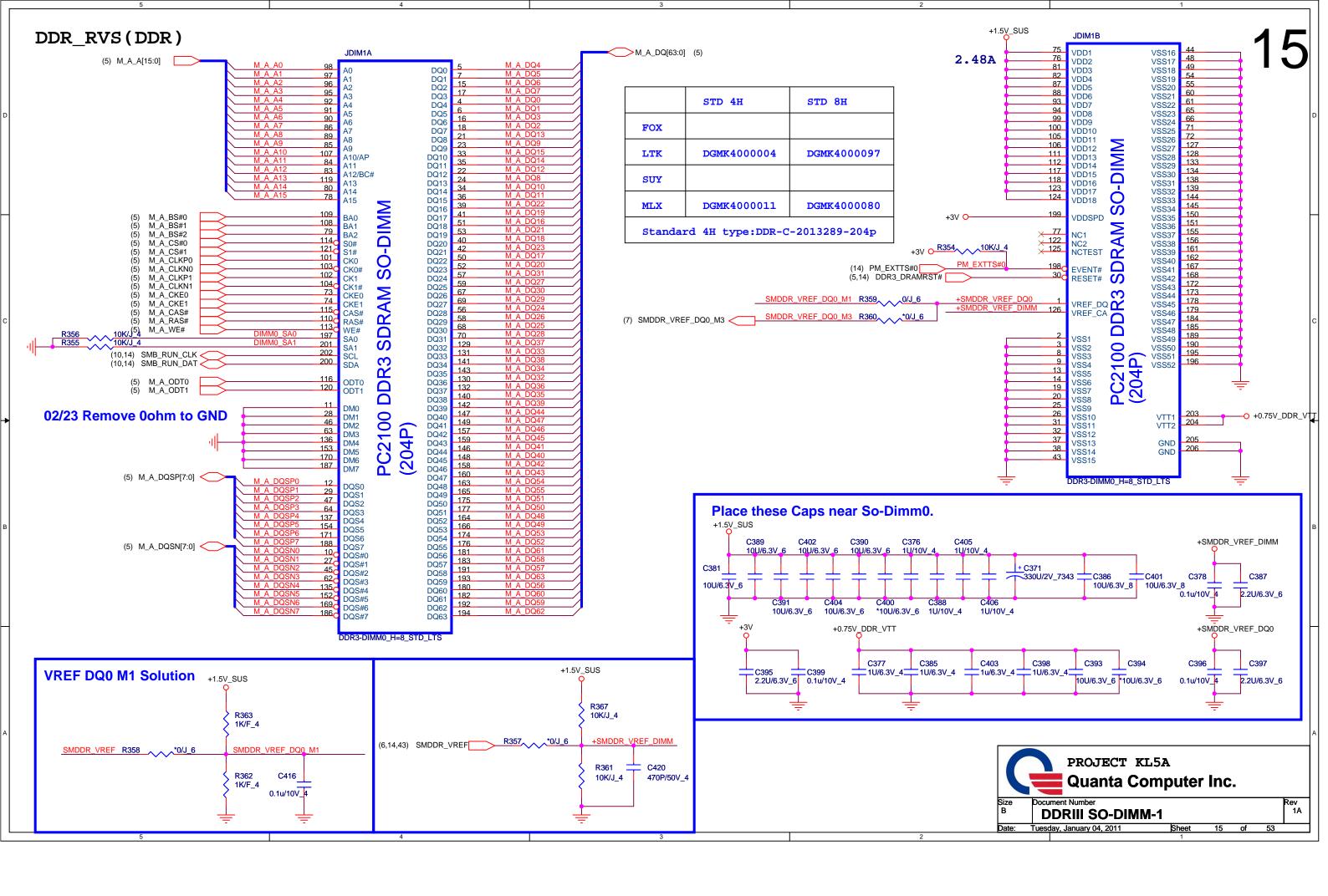


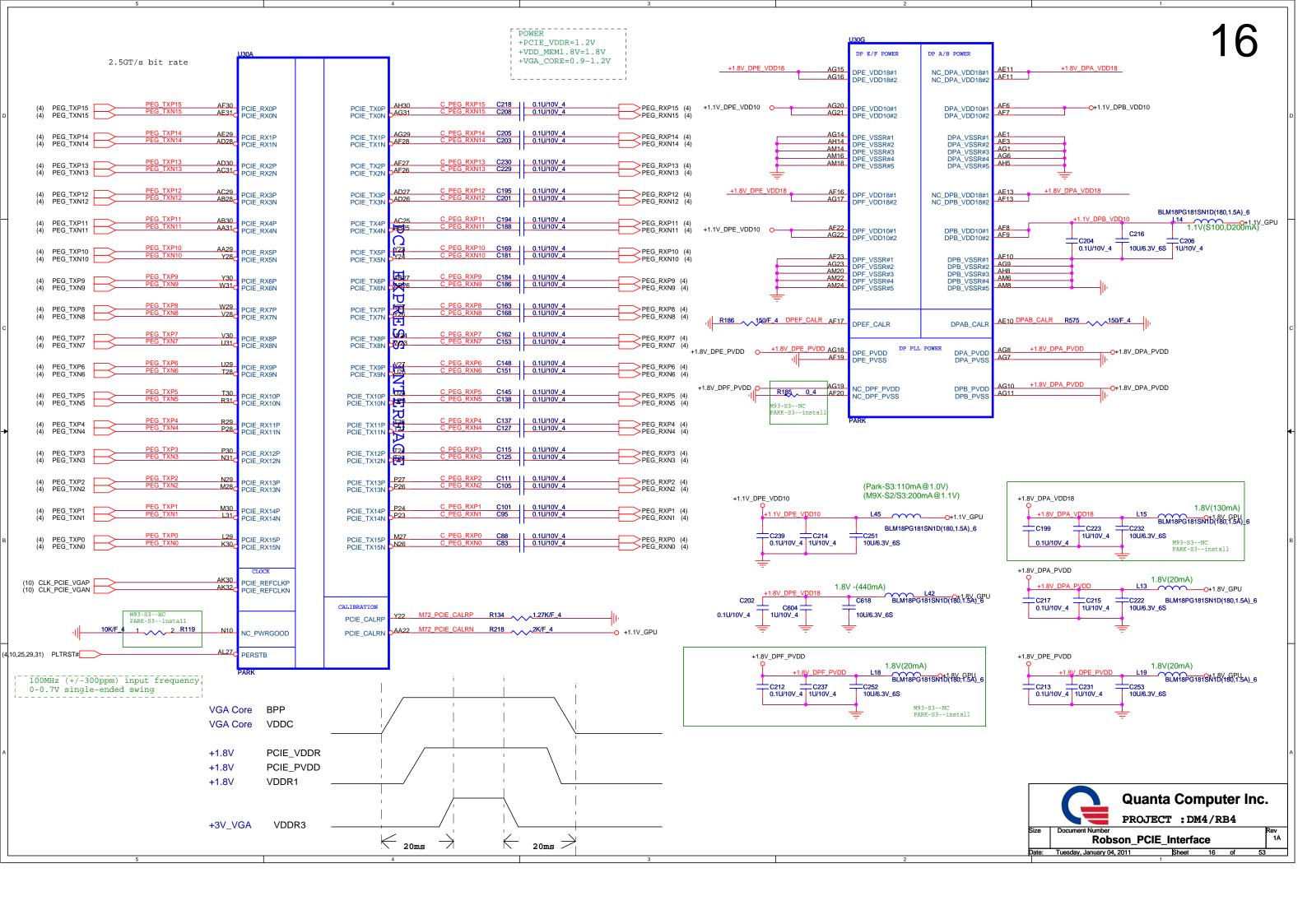


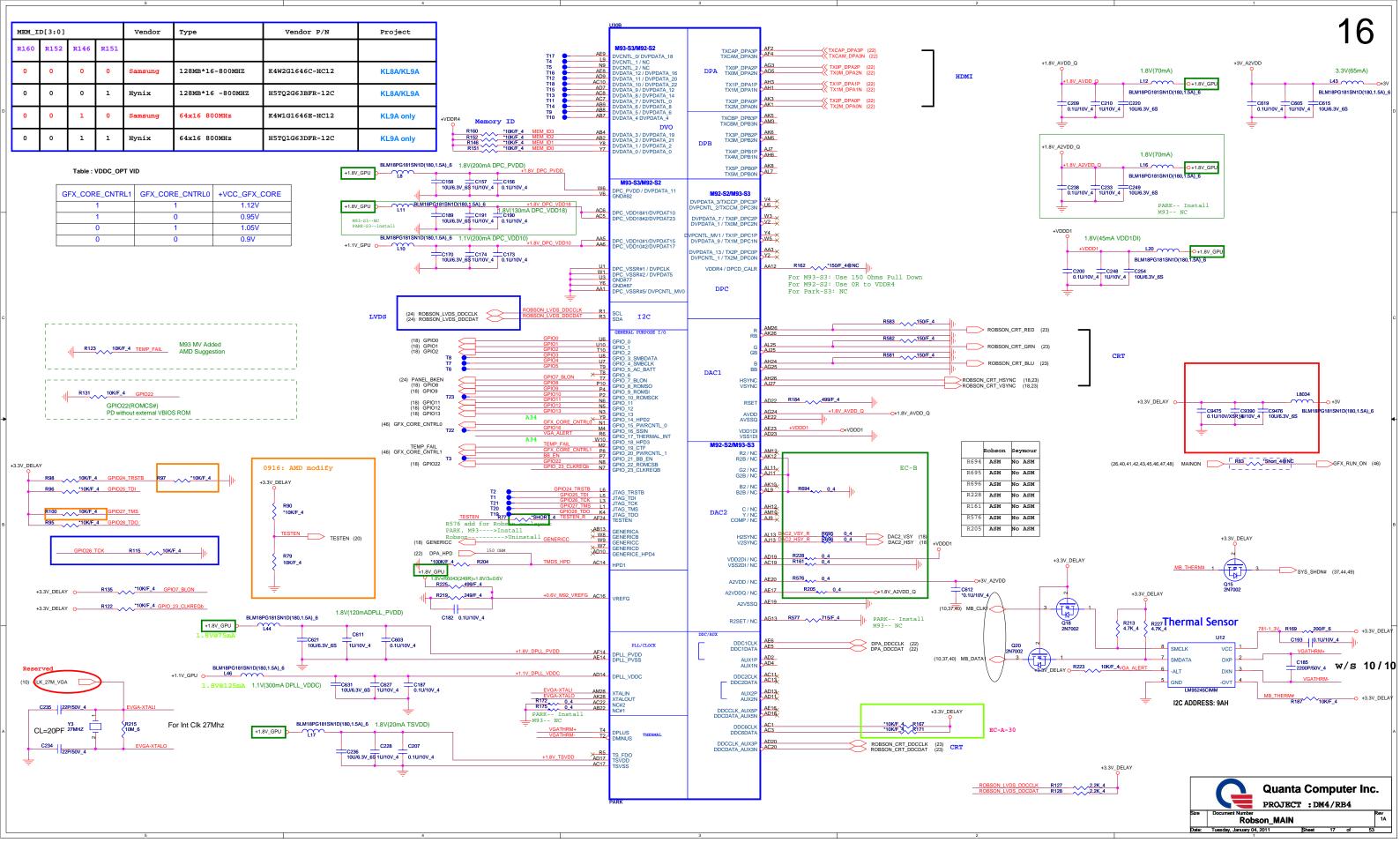


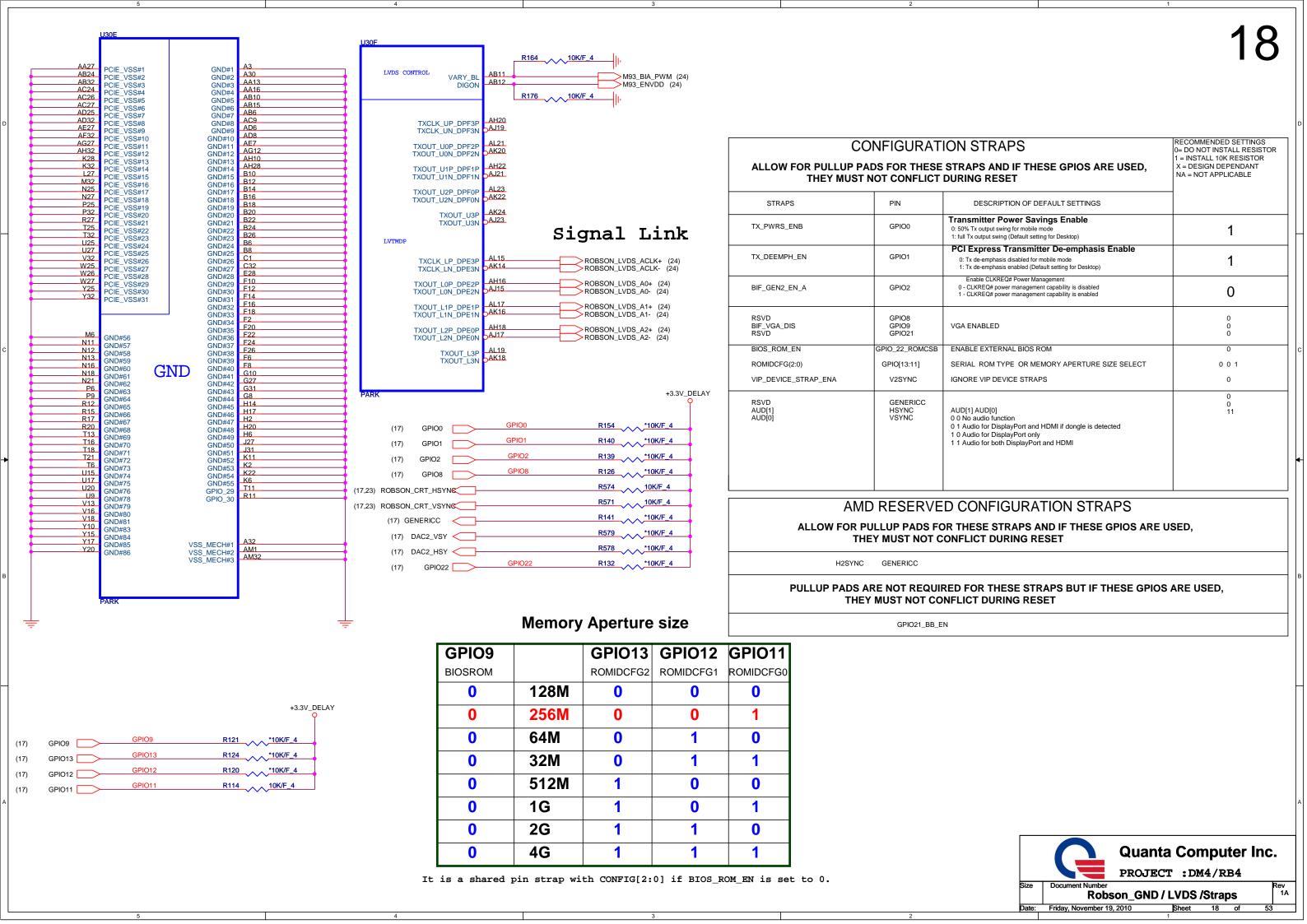


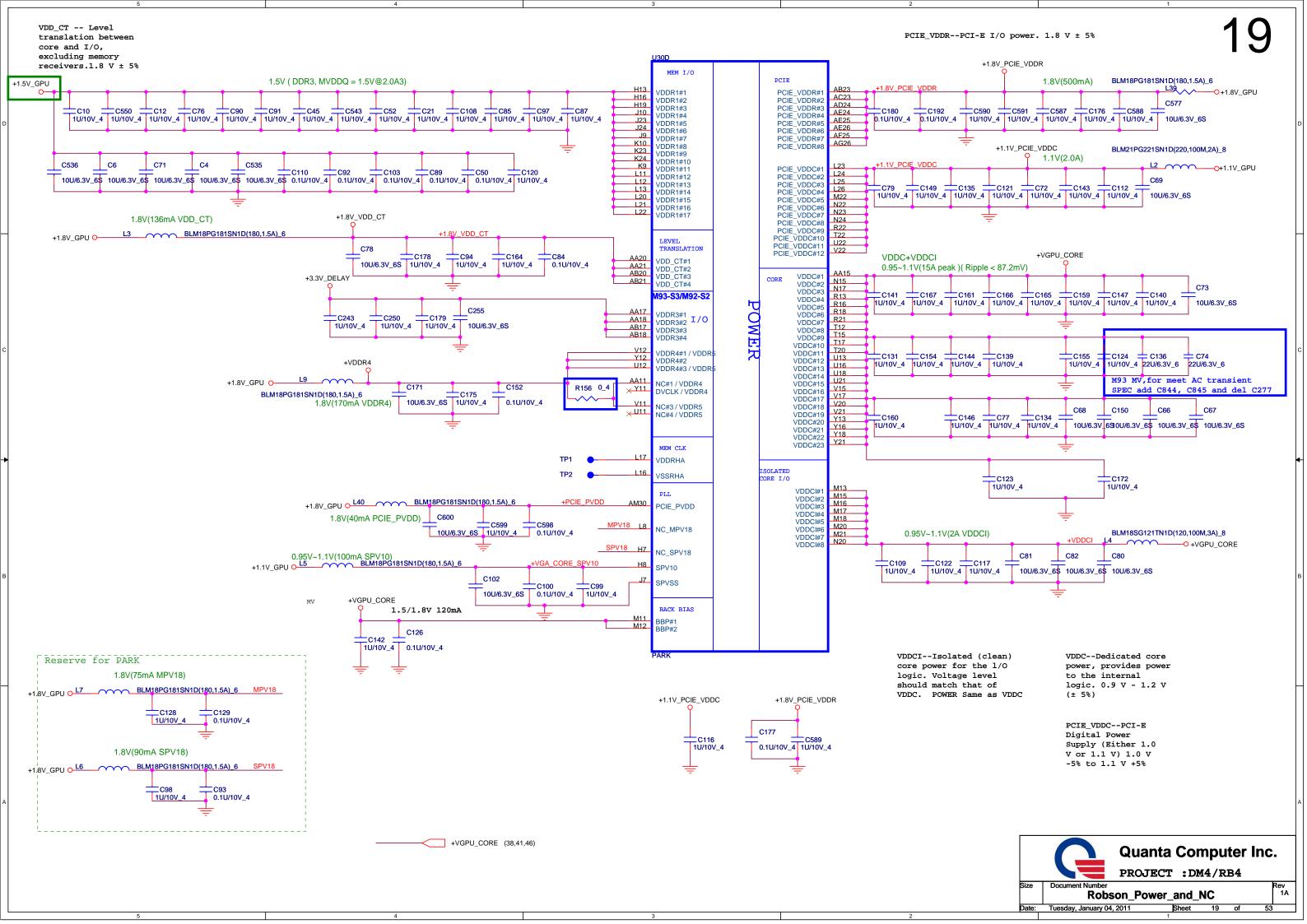


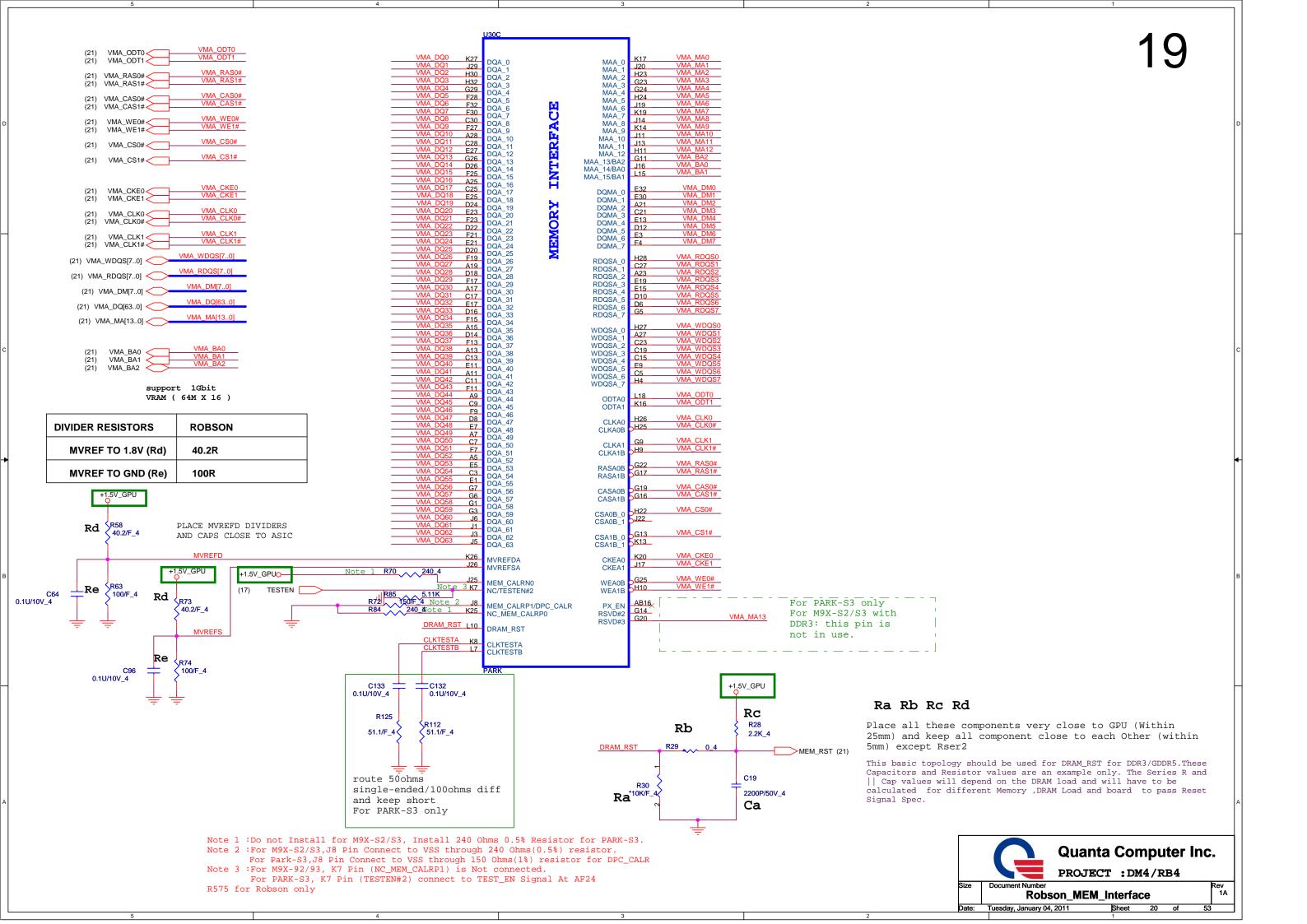


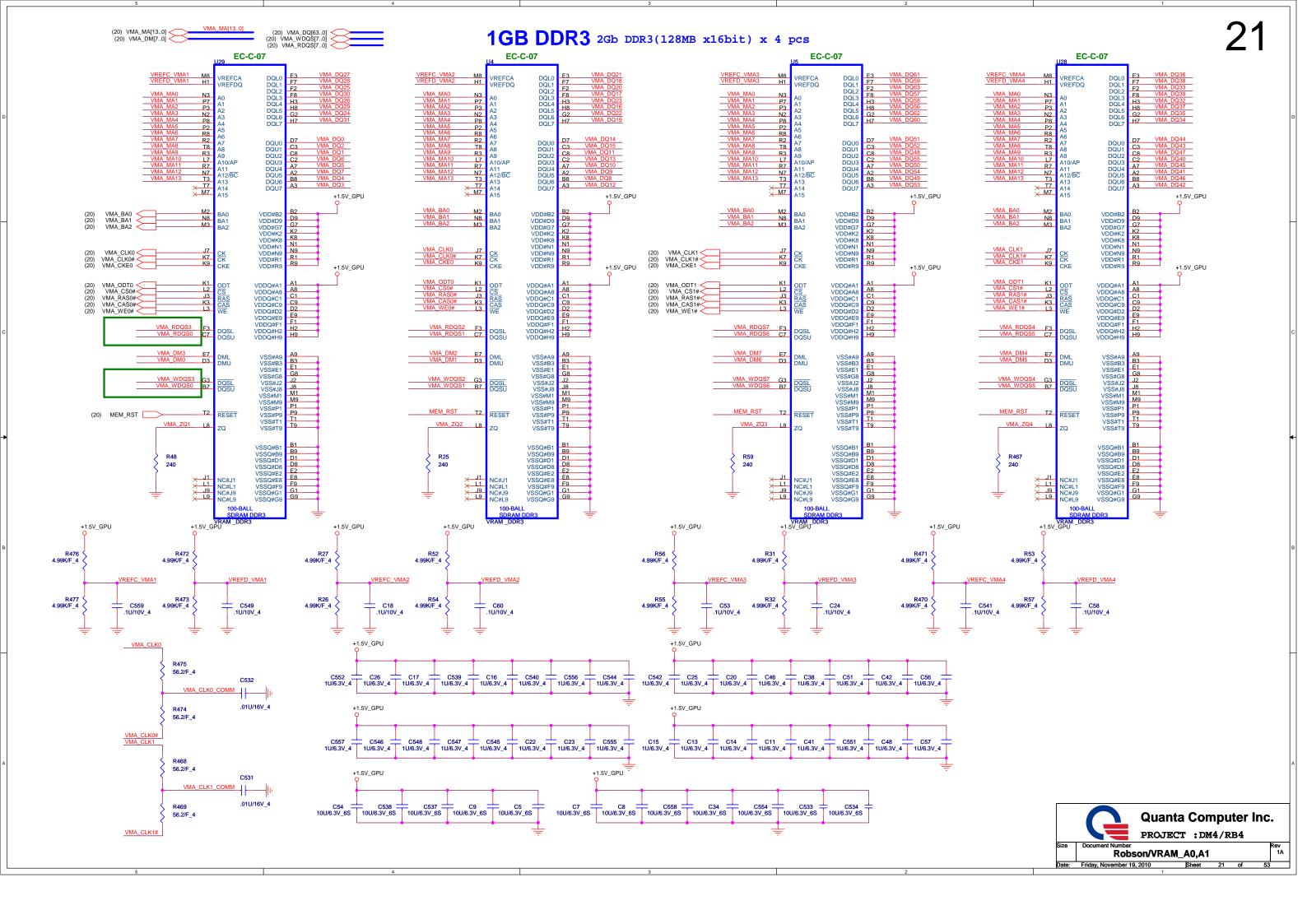




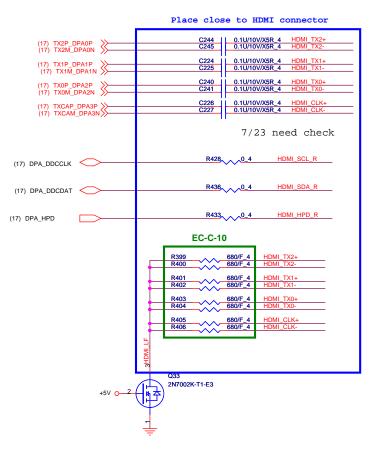




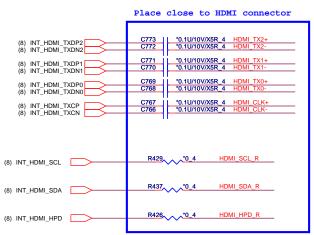


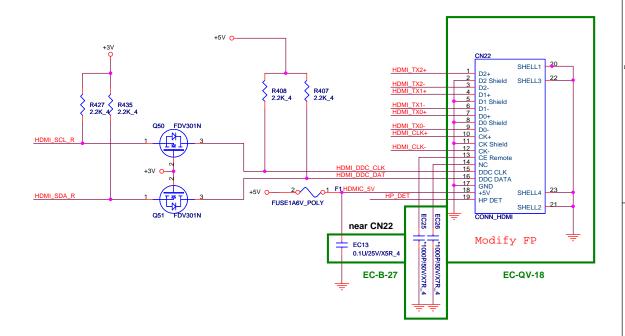




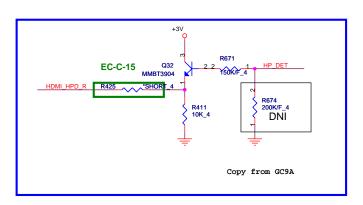


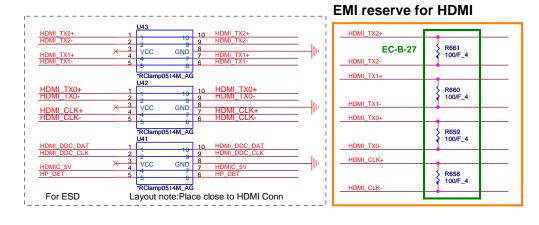
UMA Only

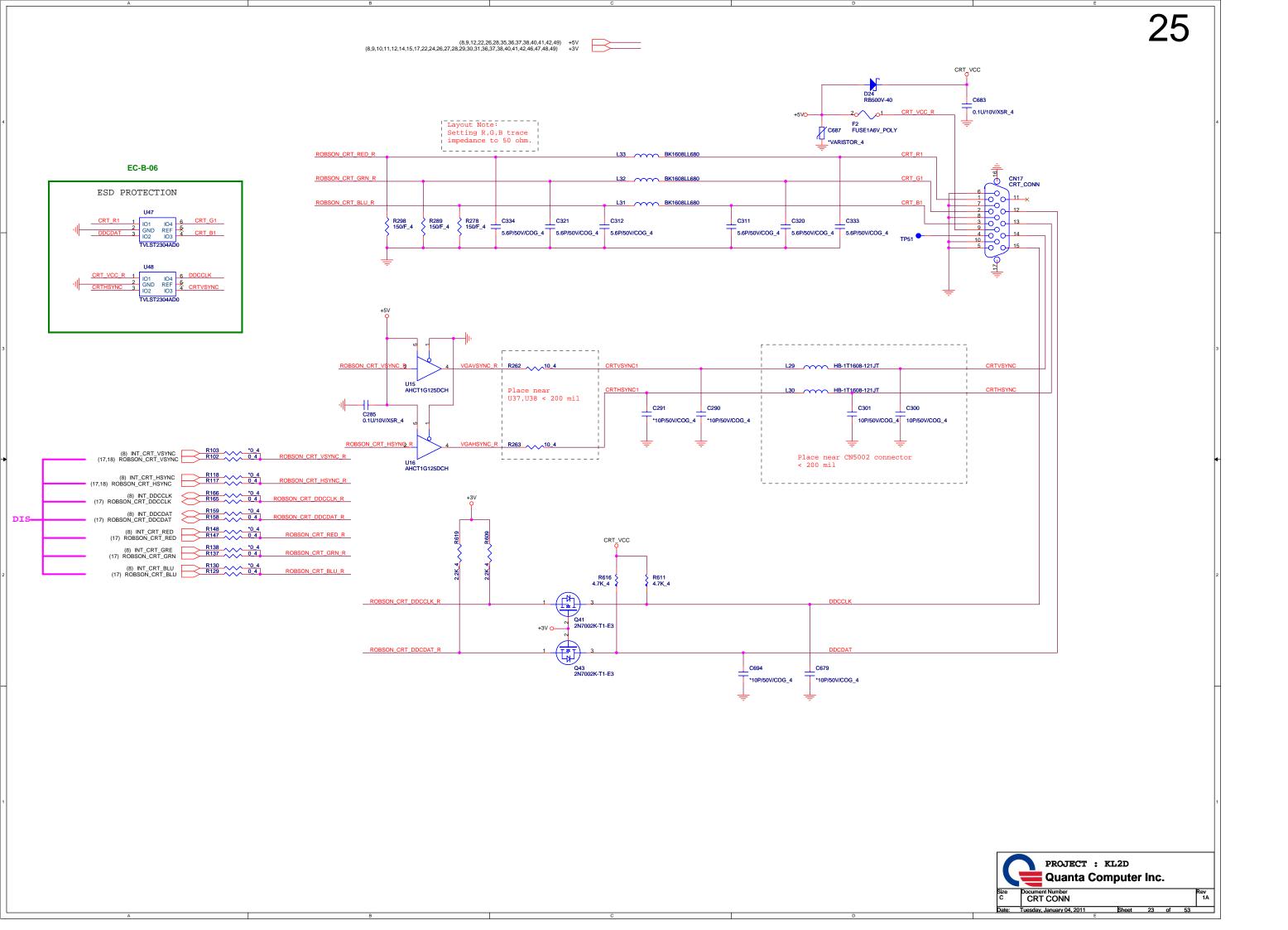


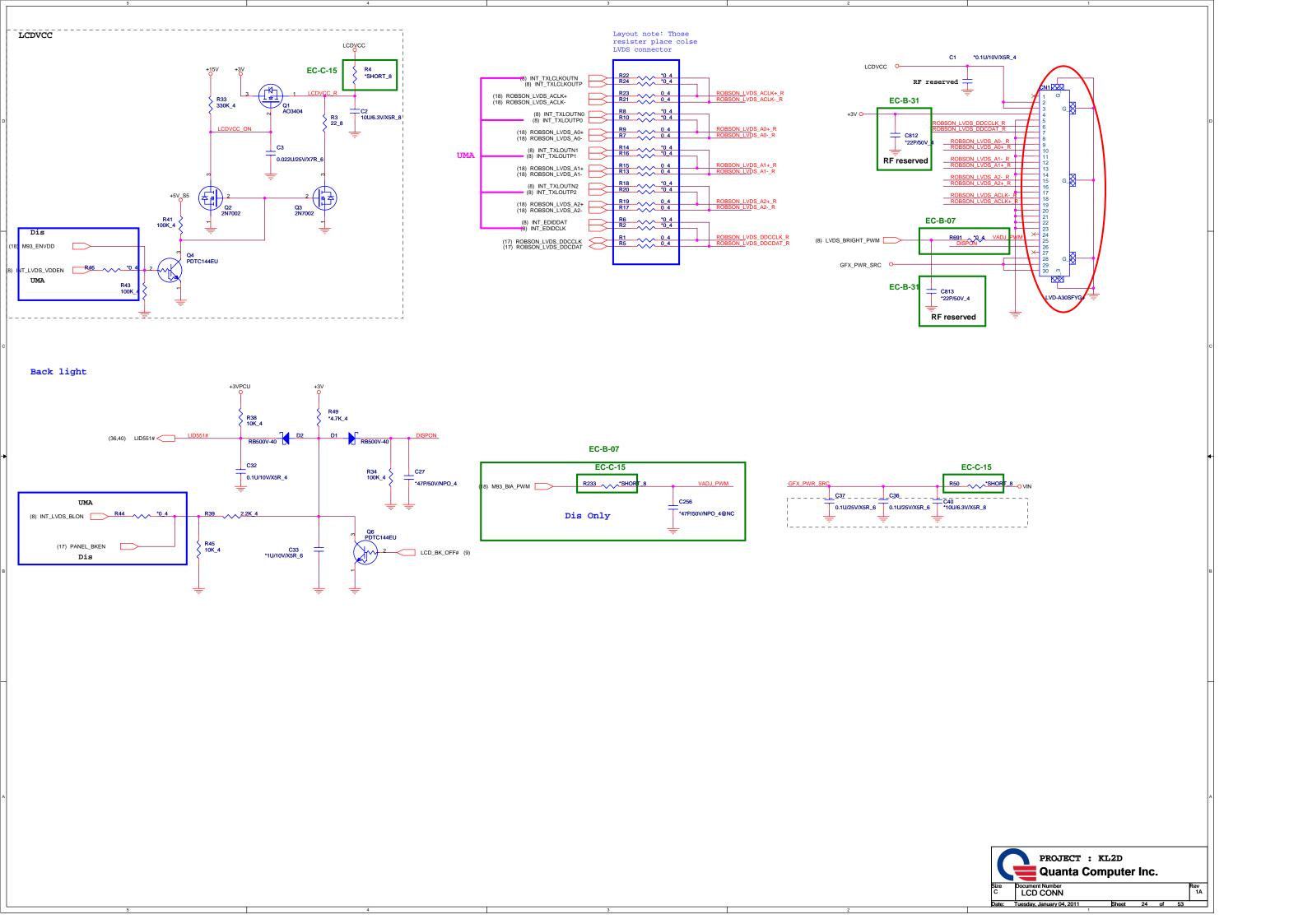


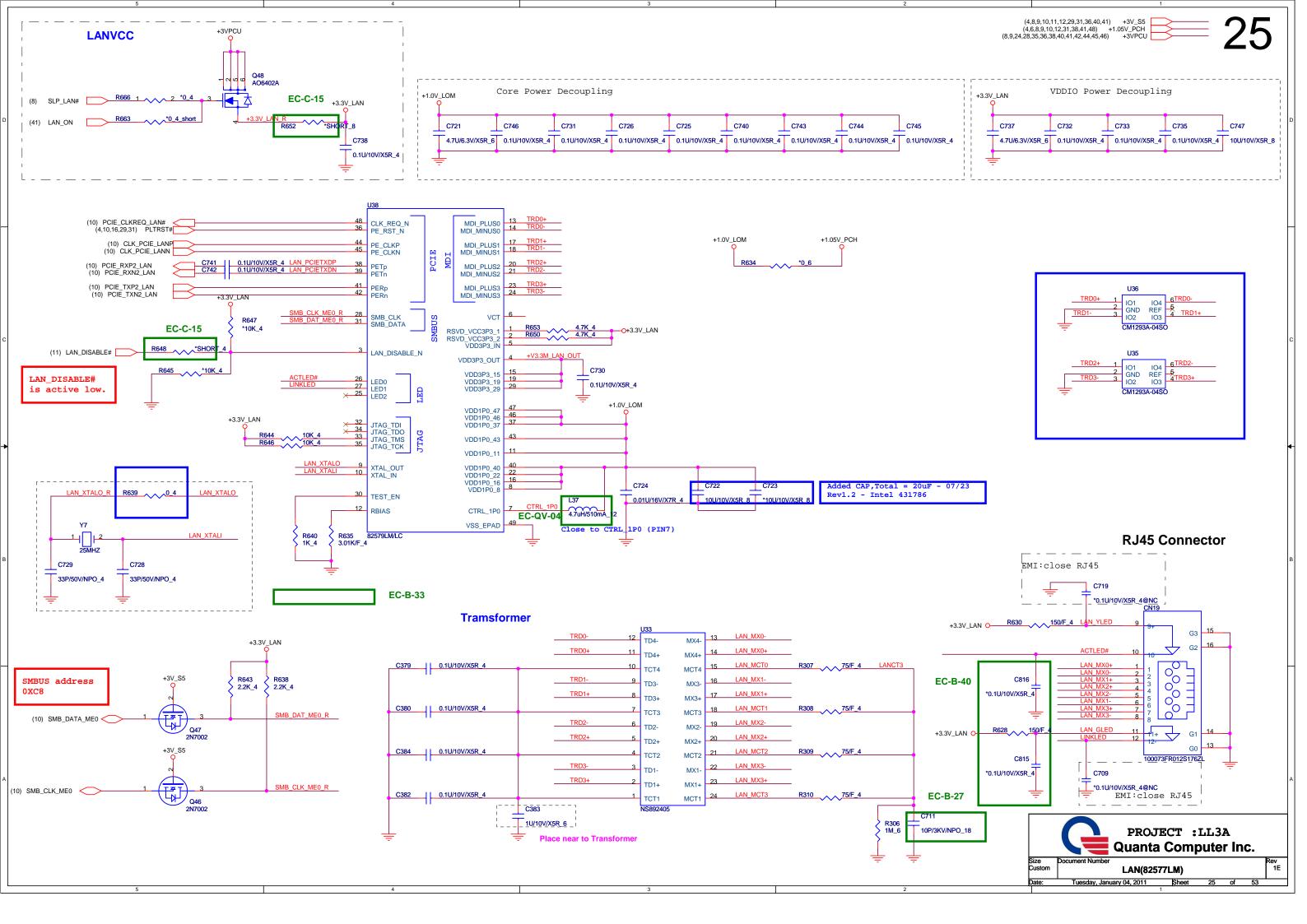
HDMI Hot-PLUG to EC and GPU

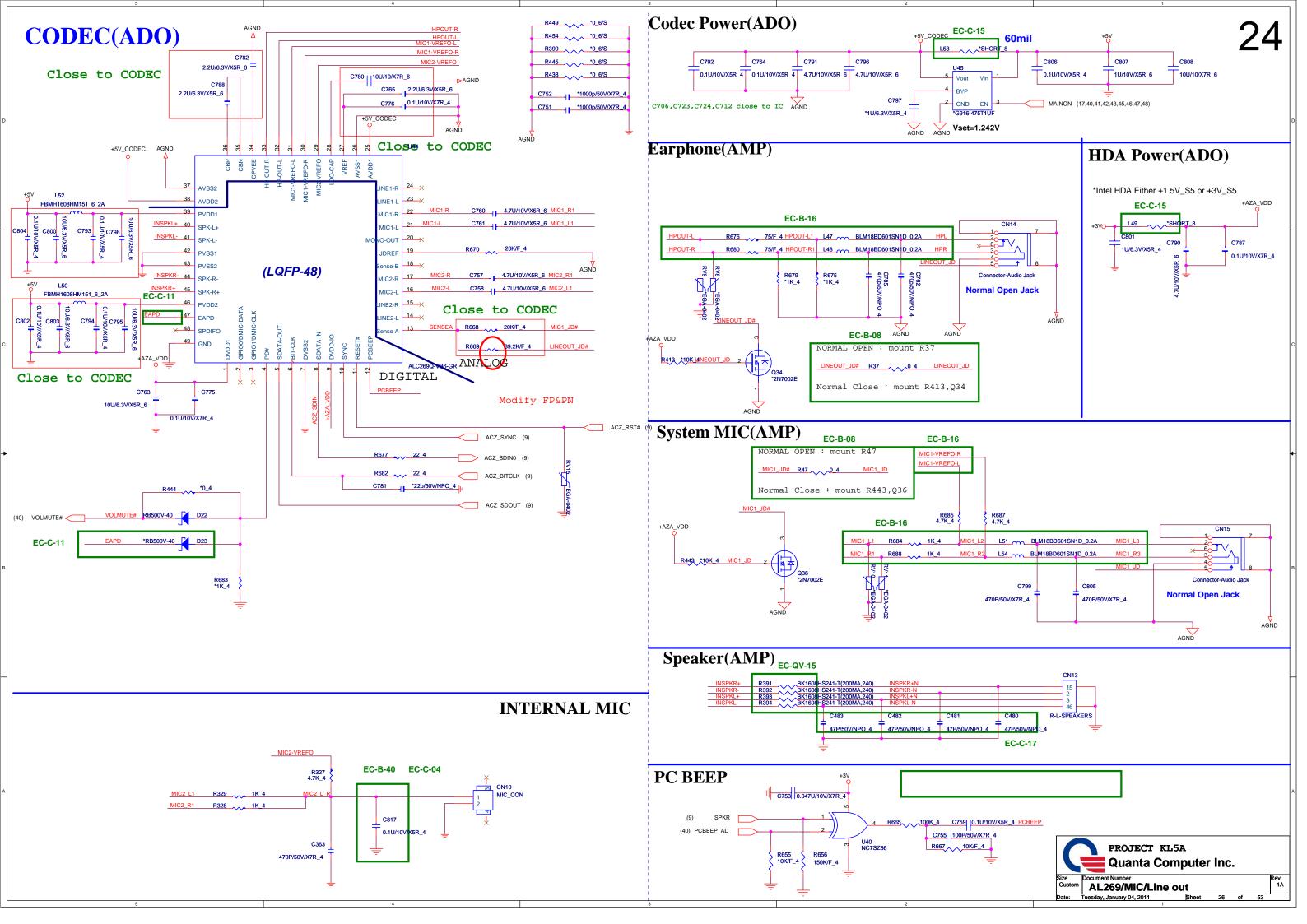


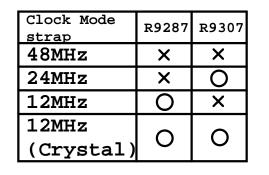


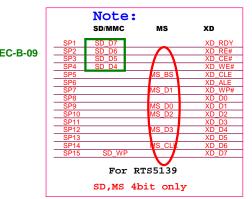


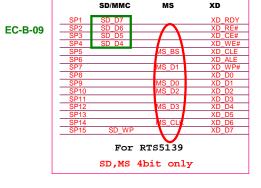


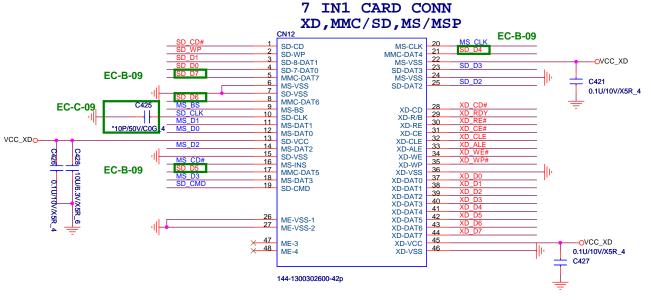


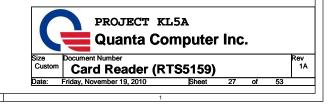


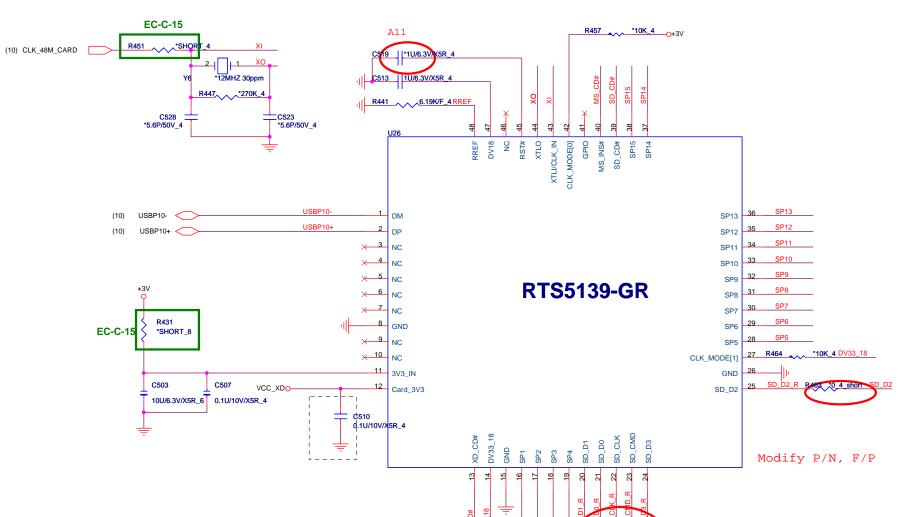








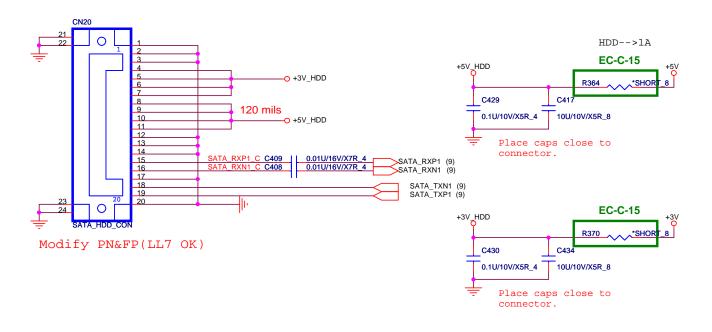




C520 C522

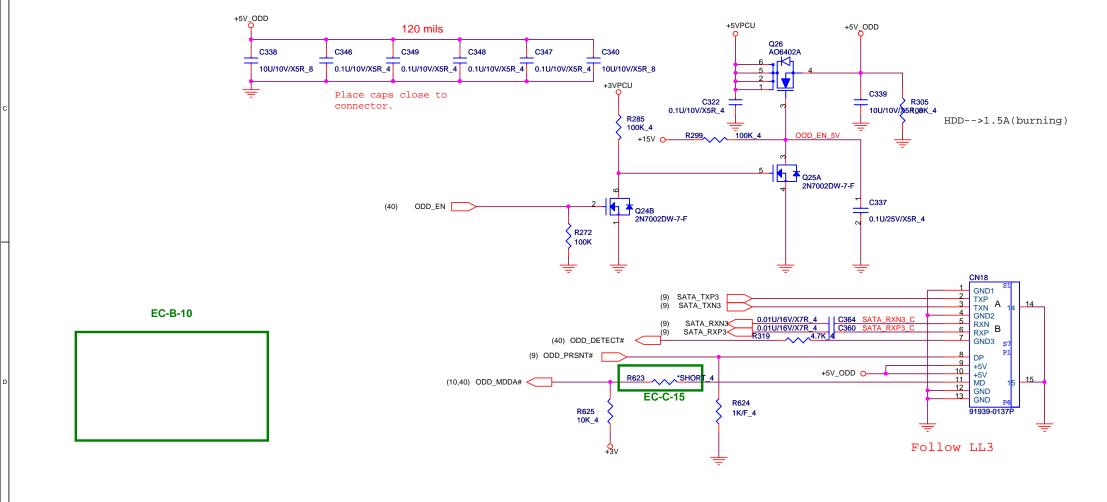
*4.7U/6 3\0/X\5\R166V/X5R 4

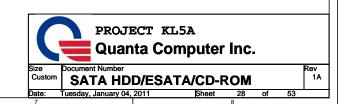


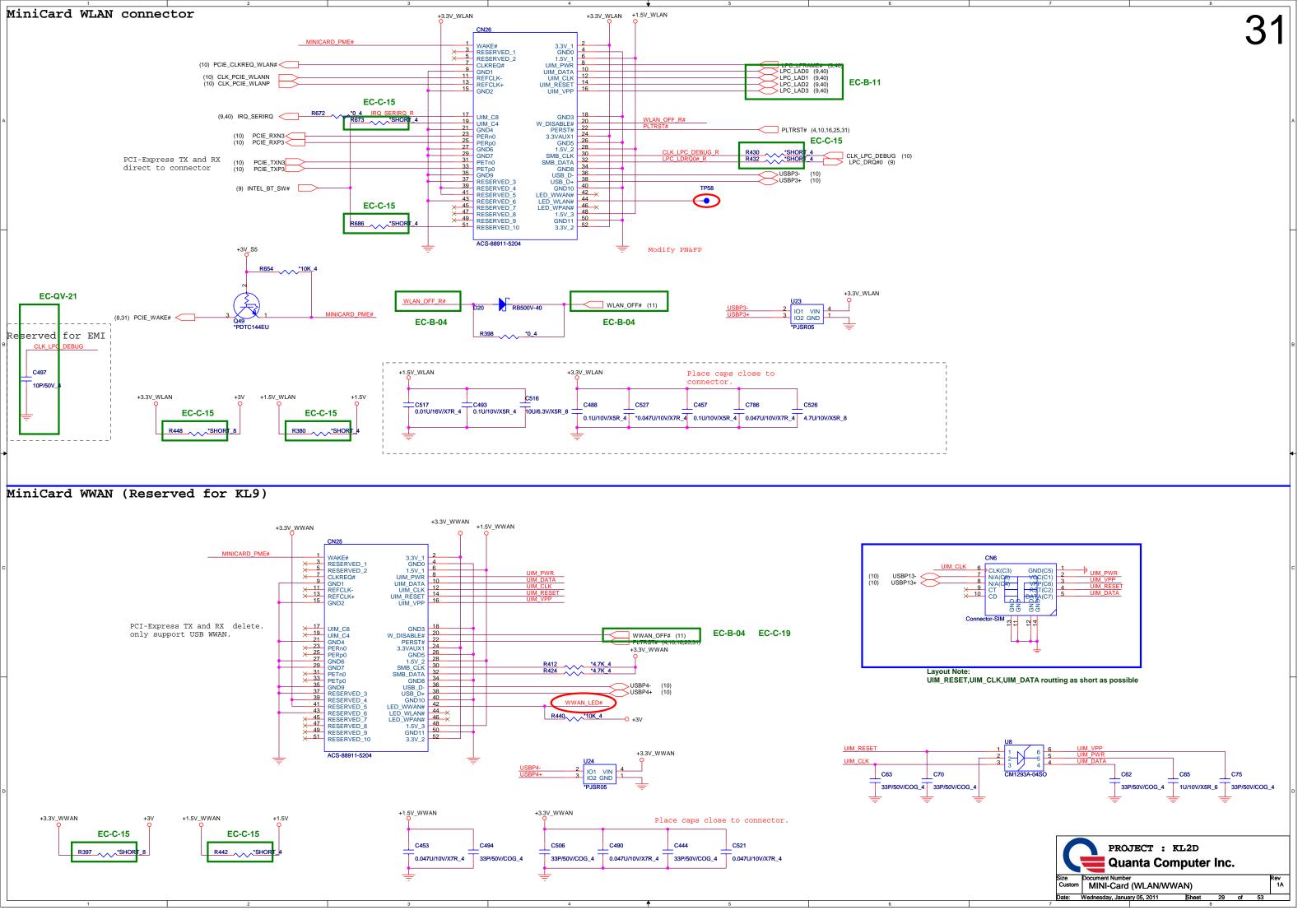


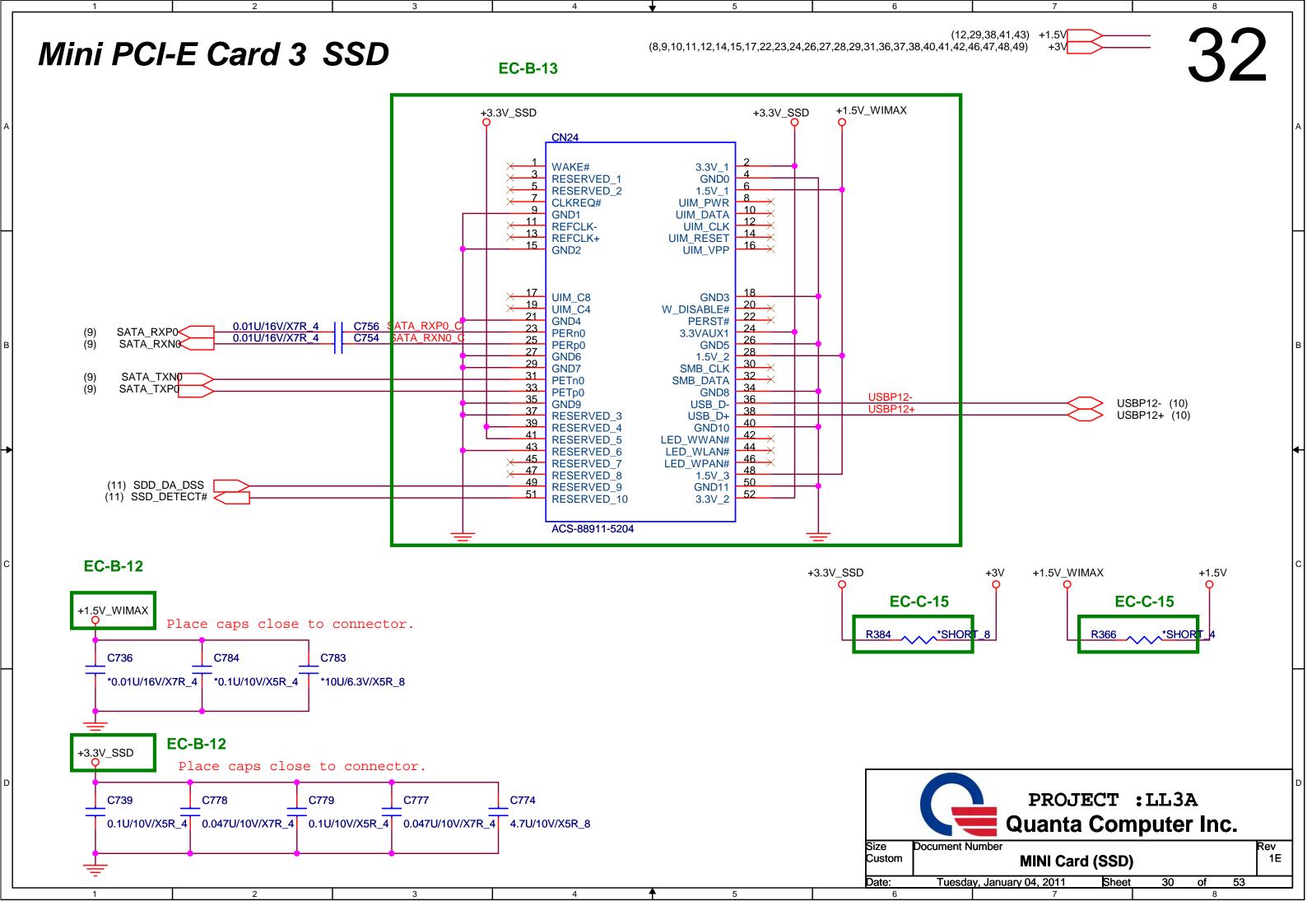
SATA ODD Connector.

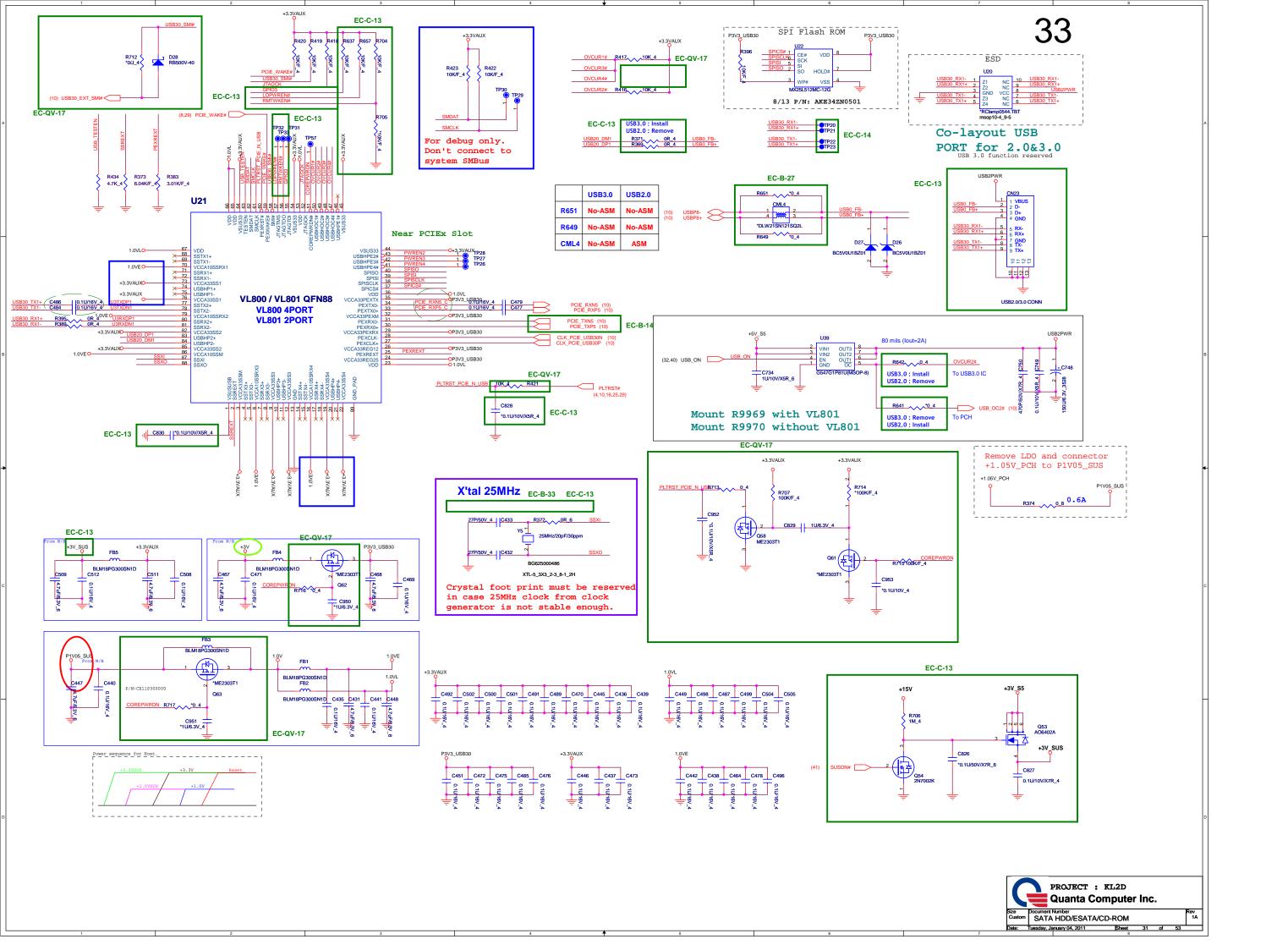
SATA HDD Connector.

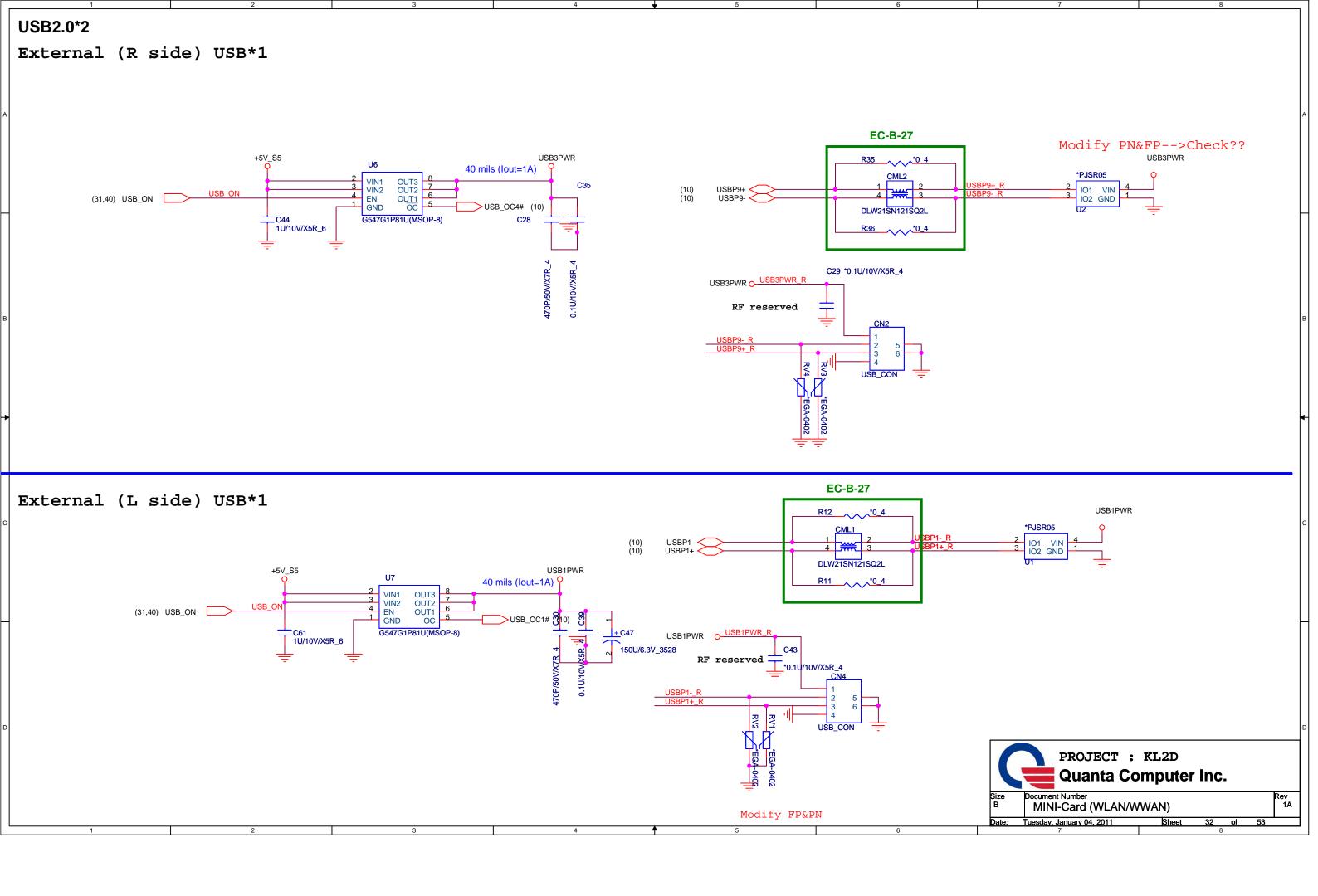


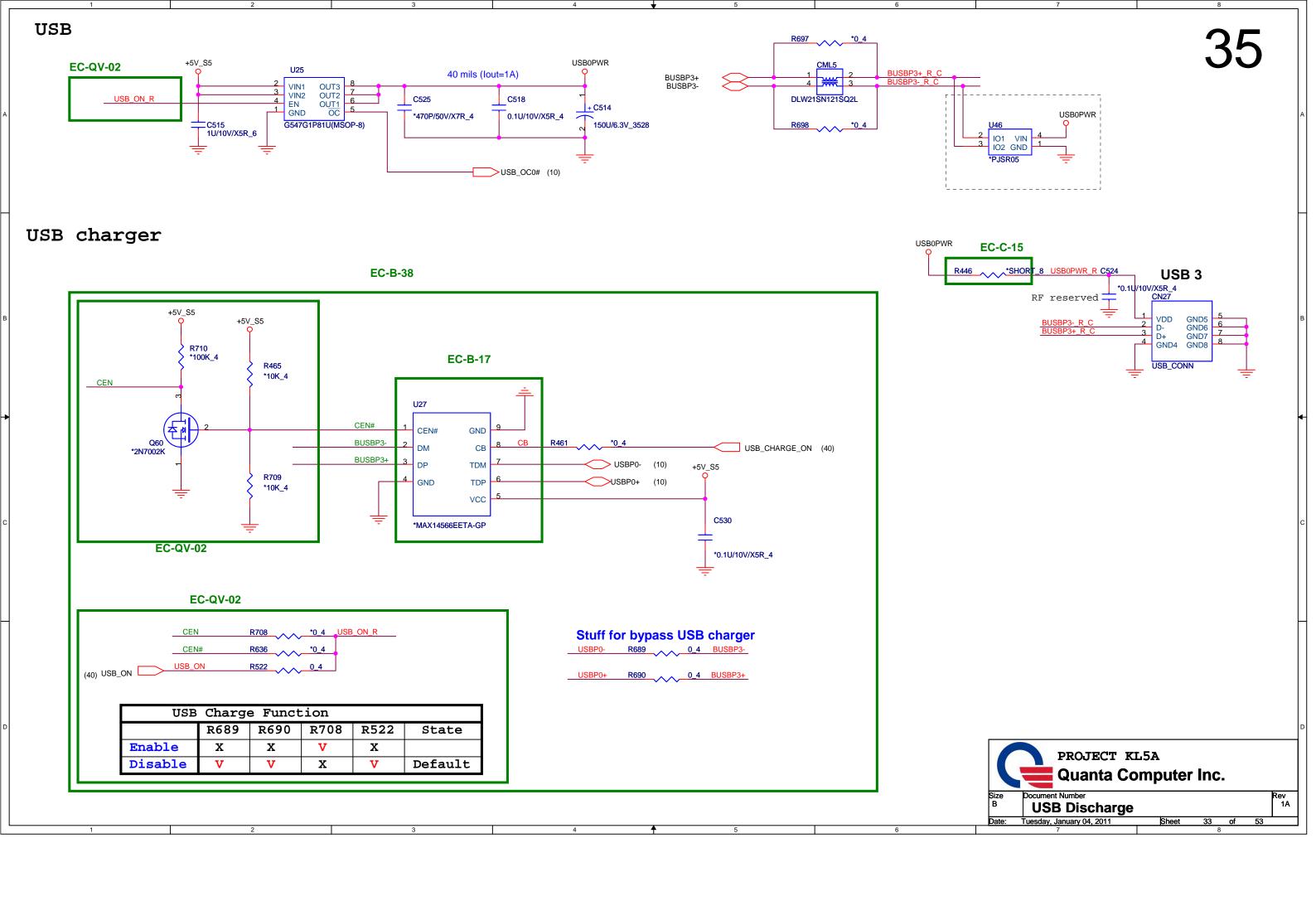


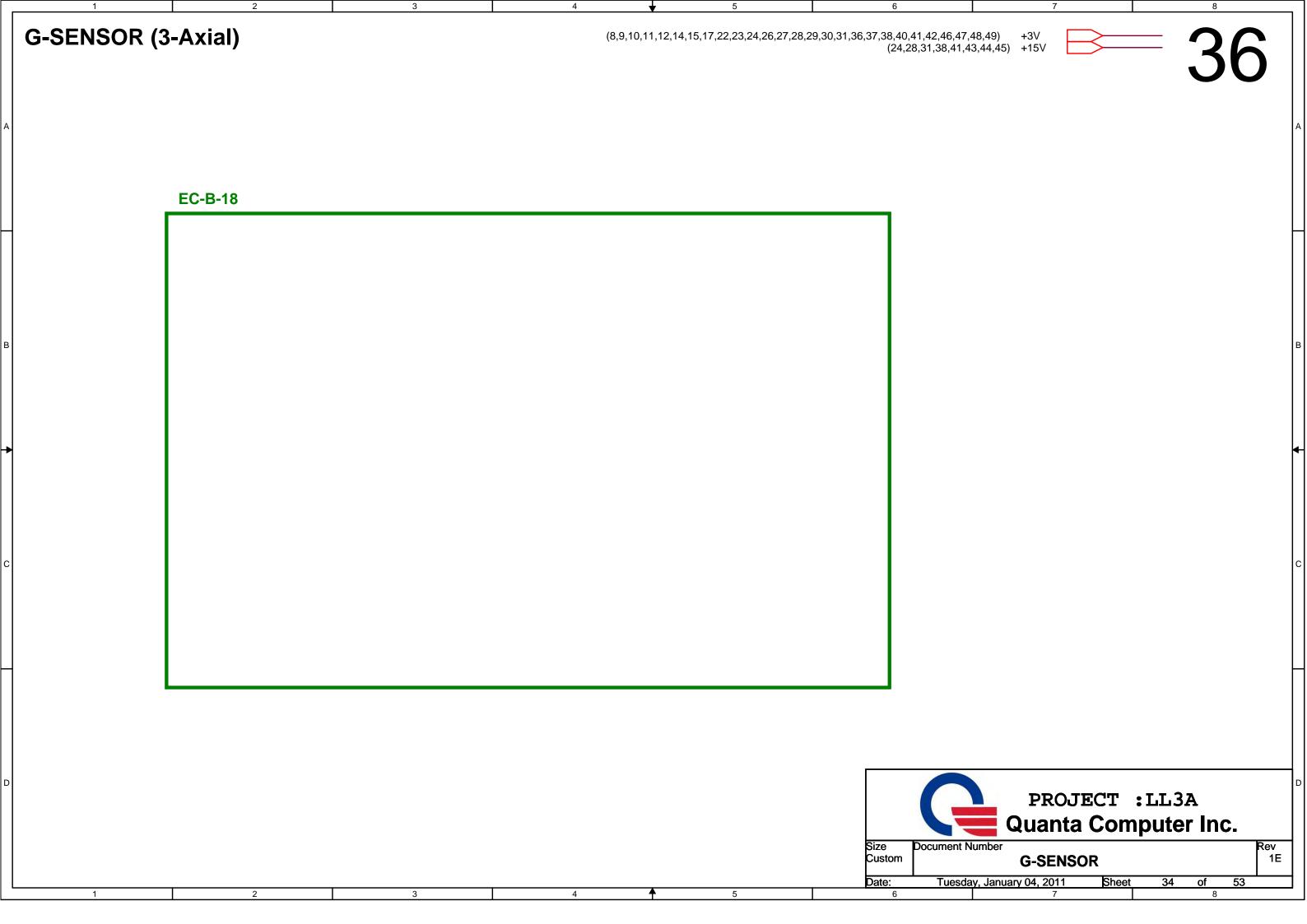


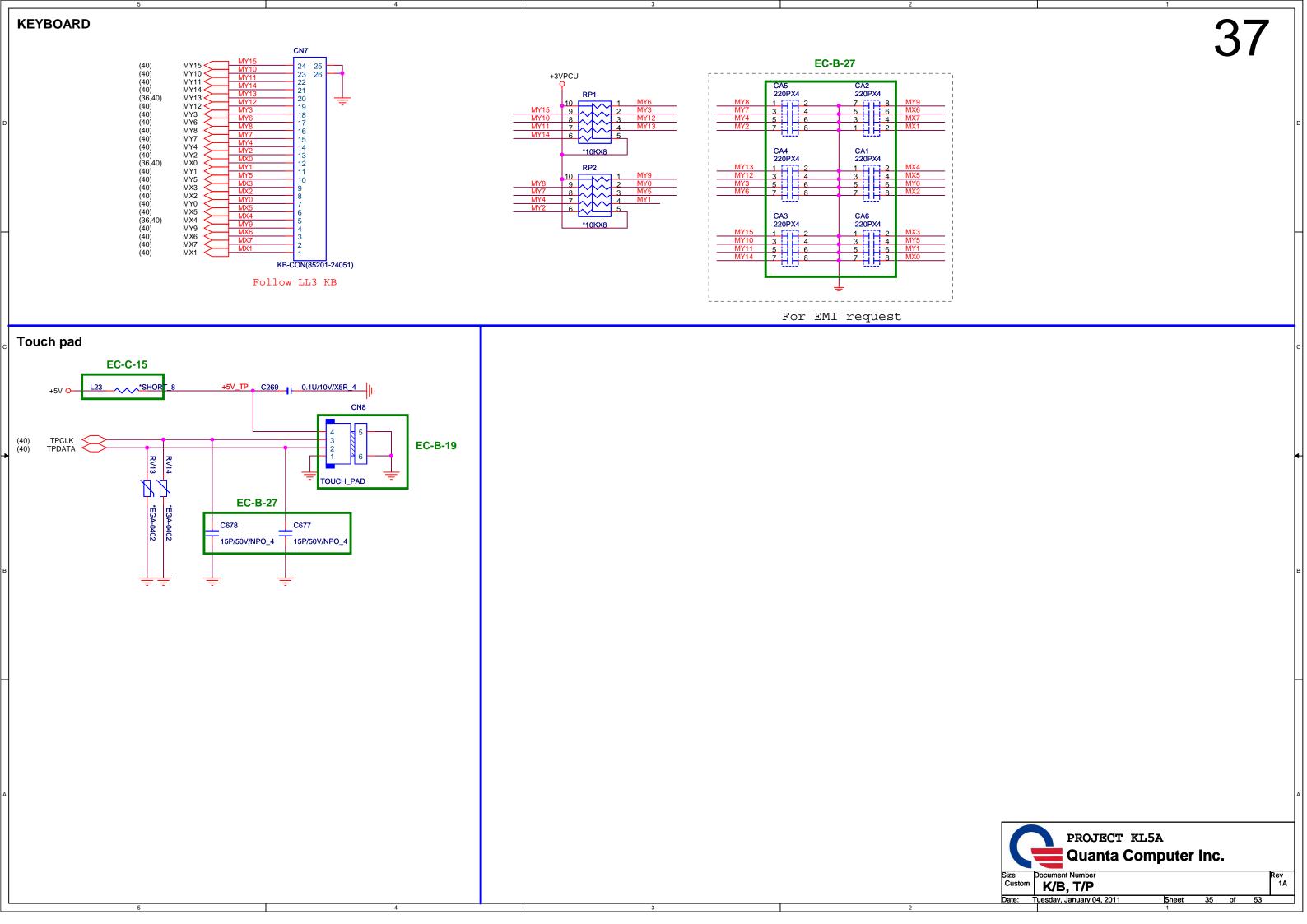


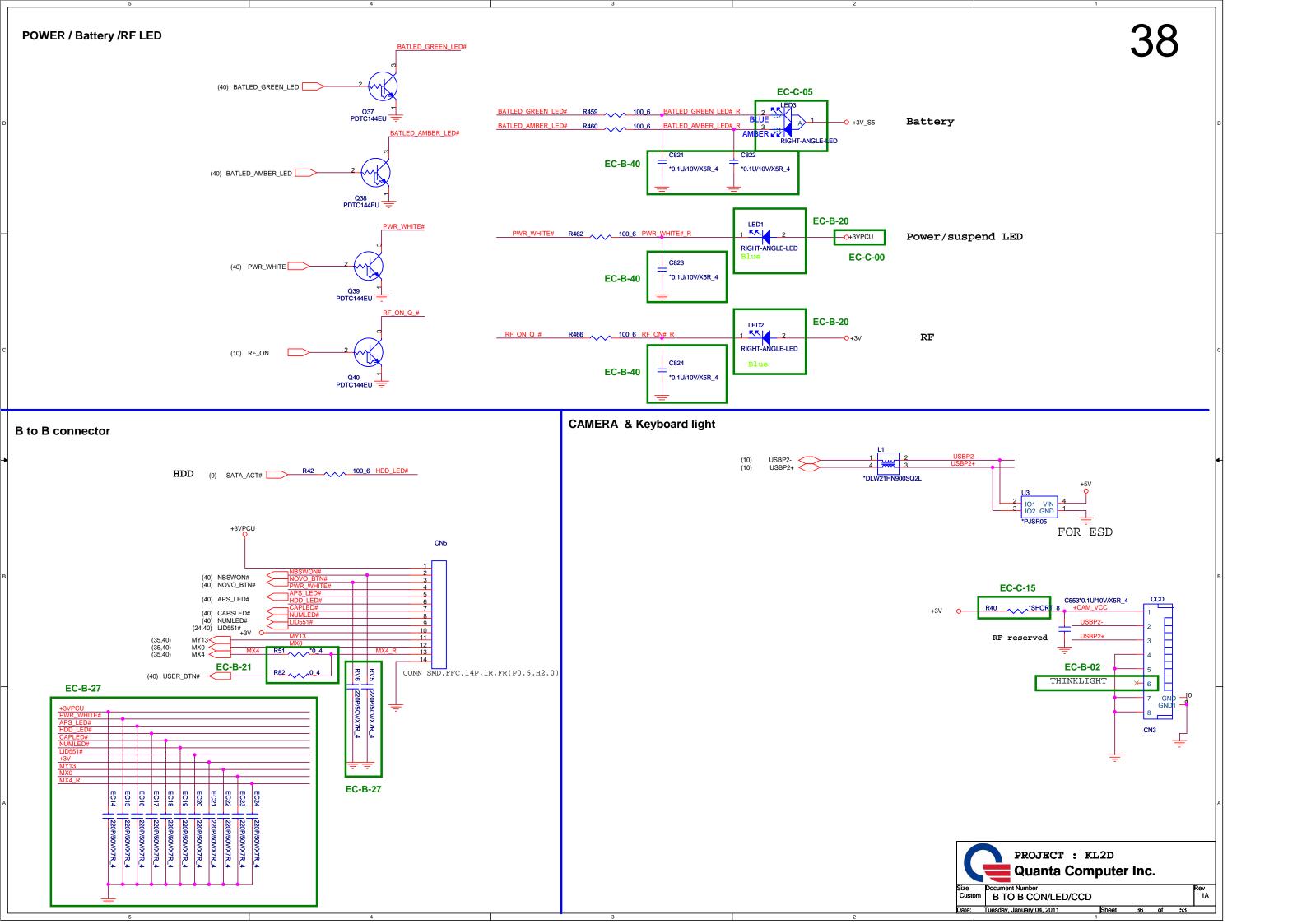


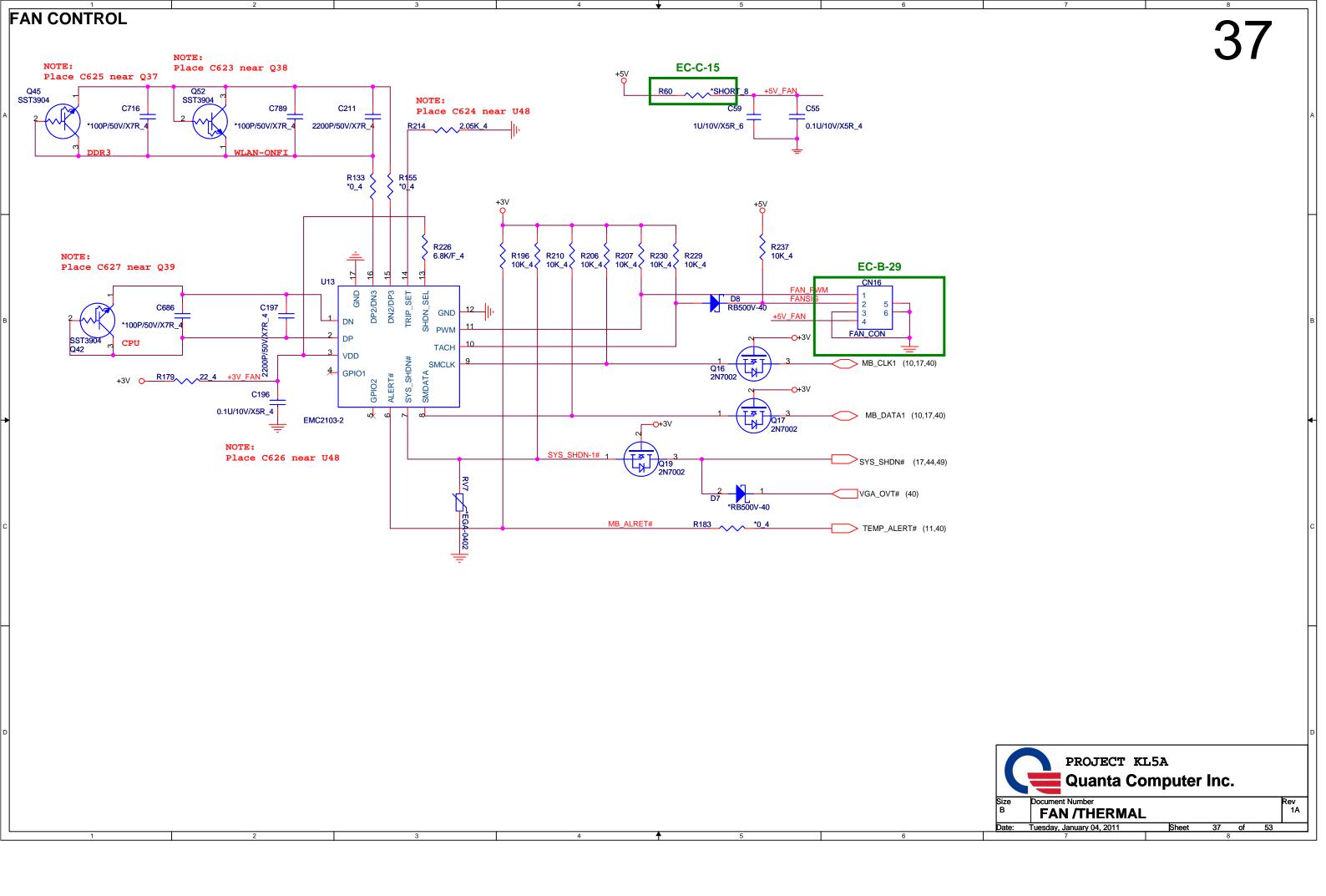


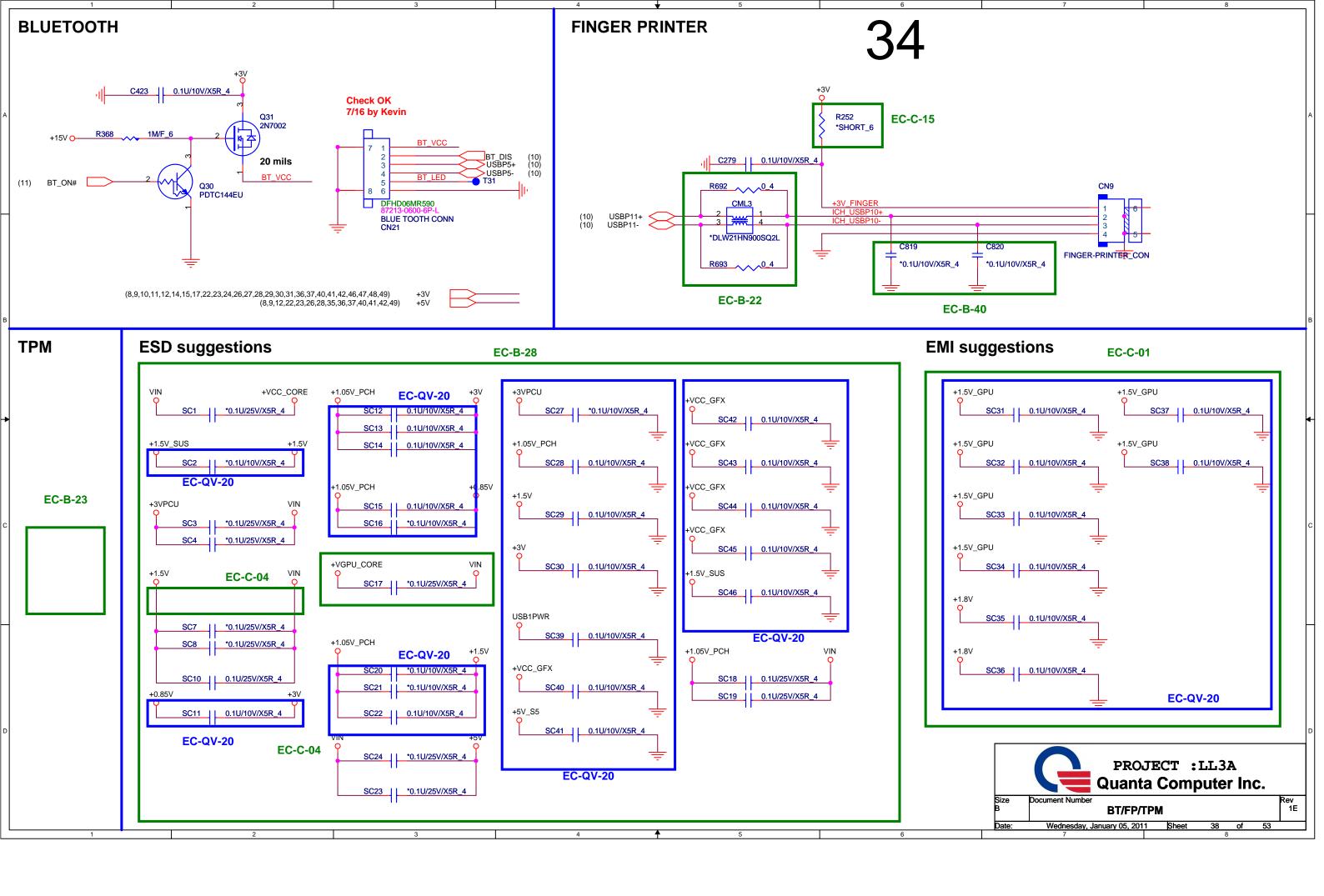


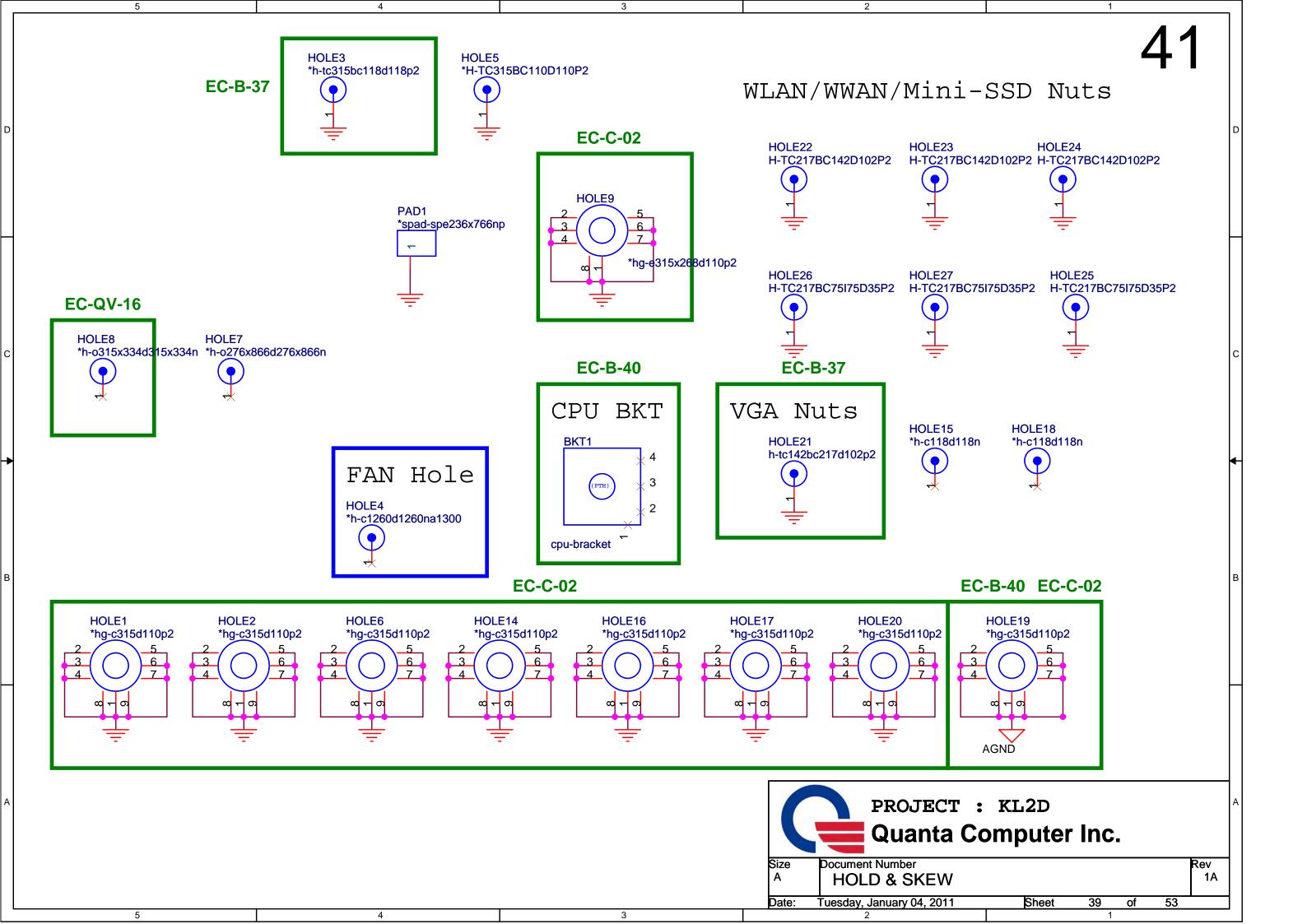


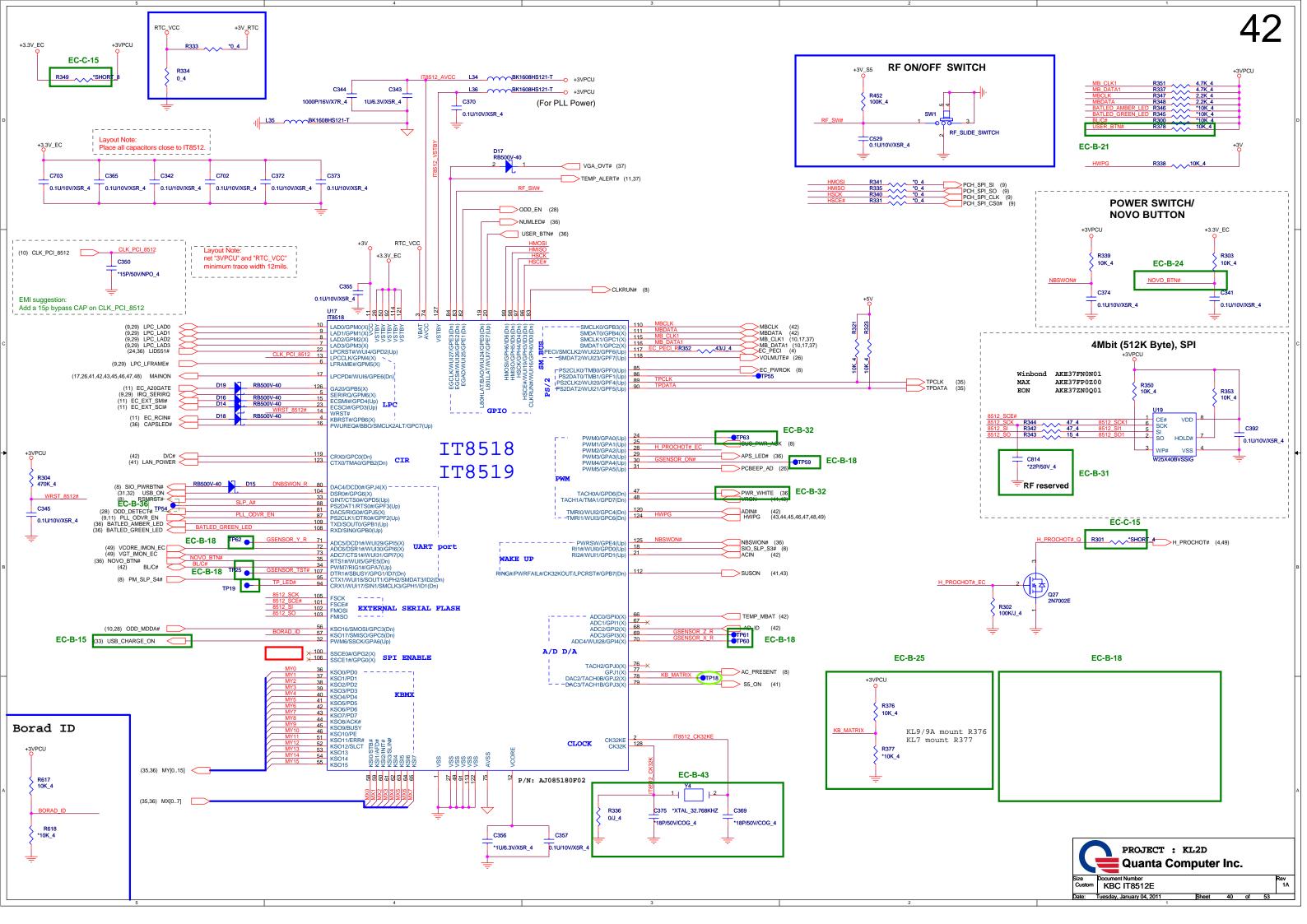


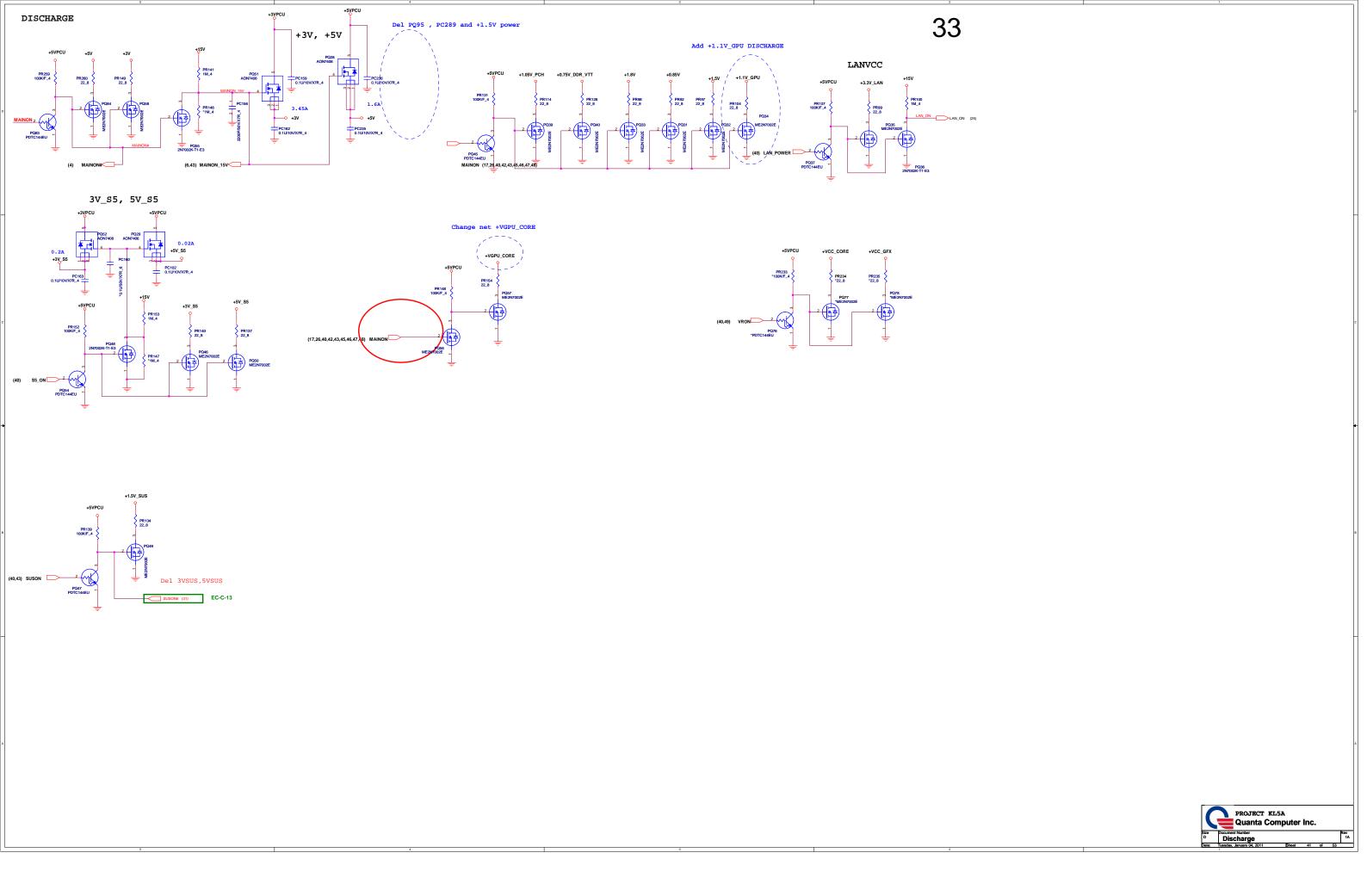


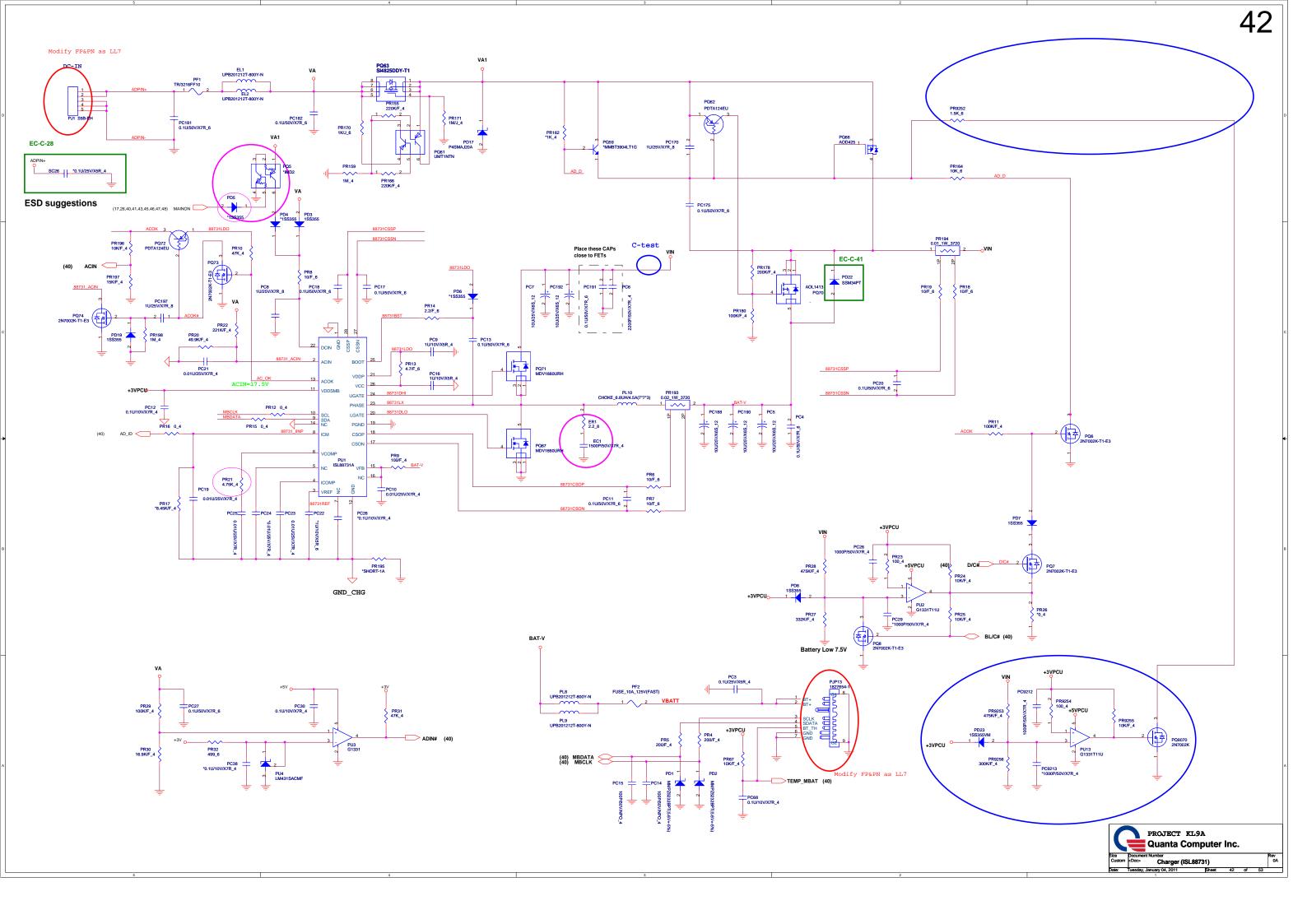


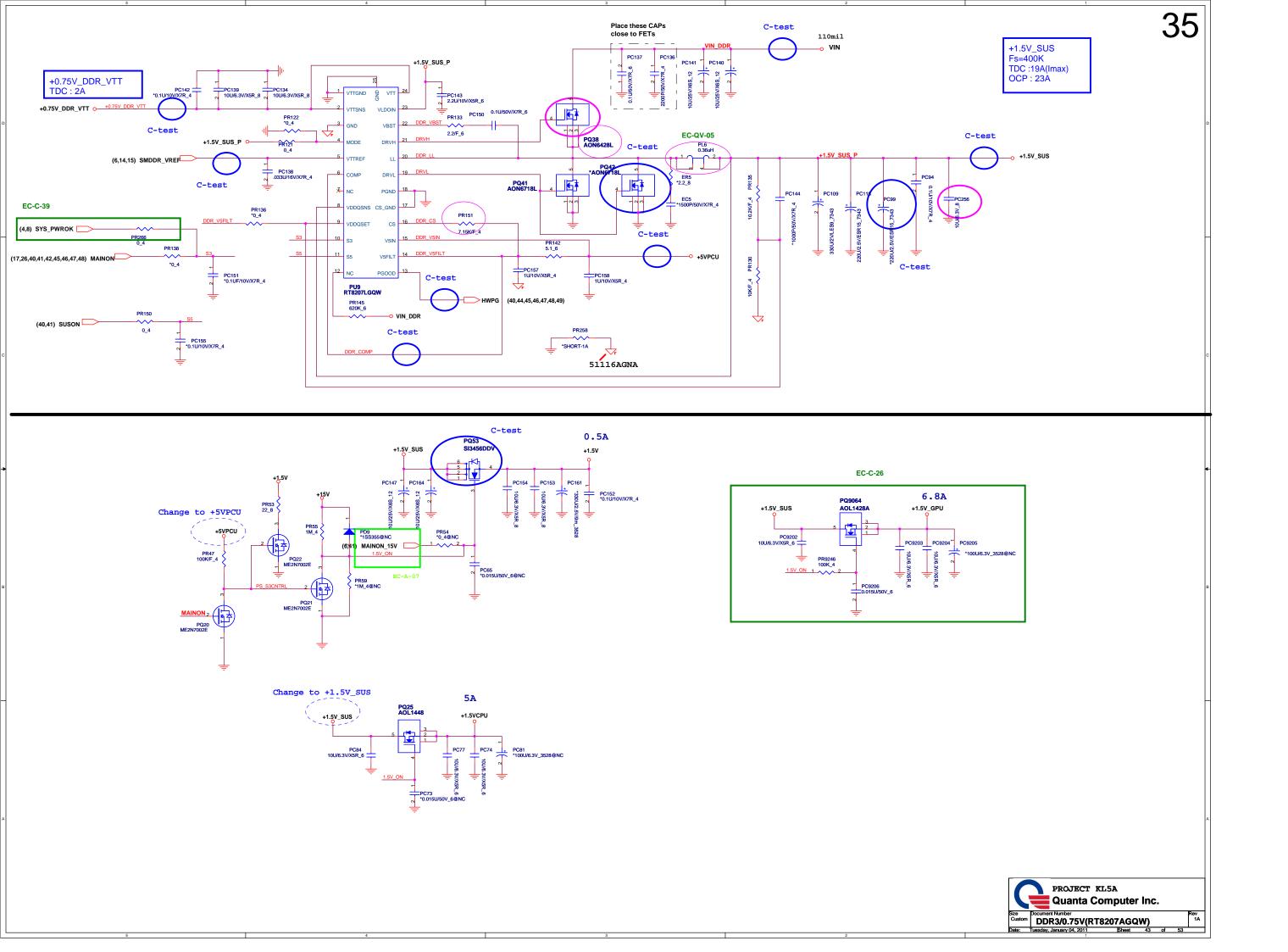


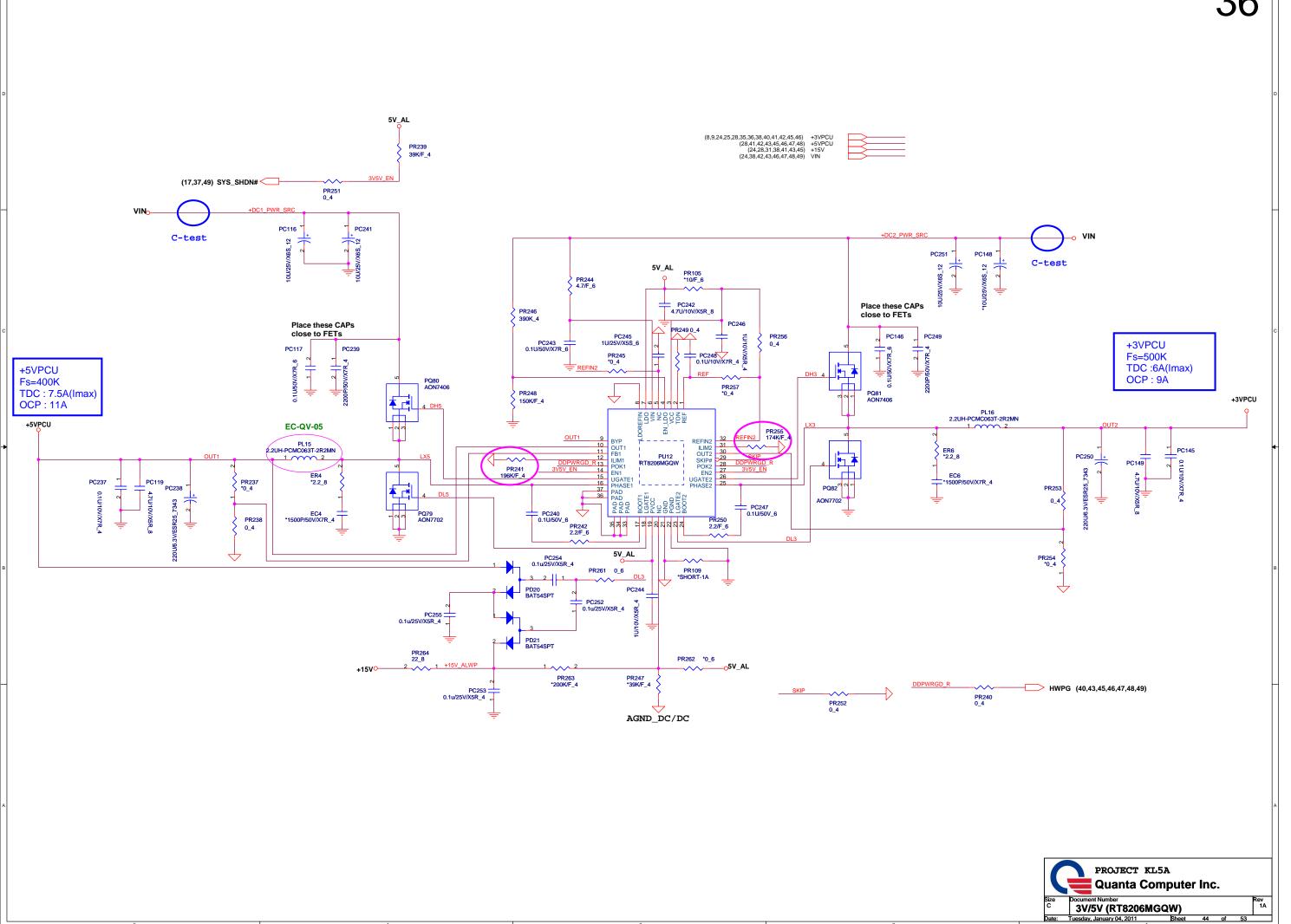


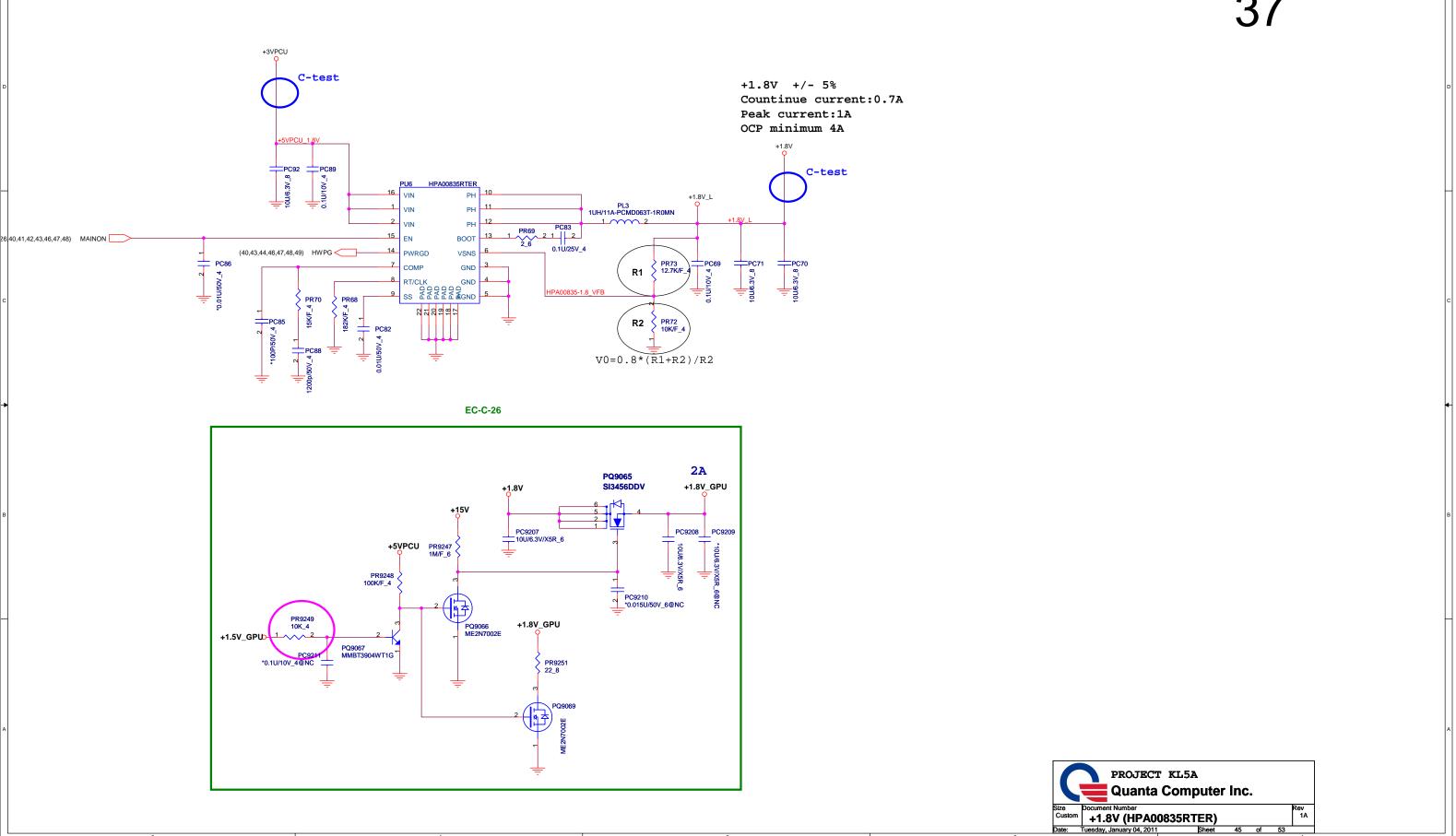


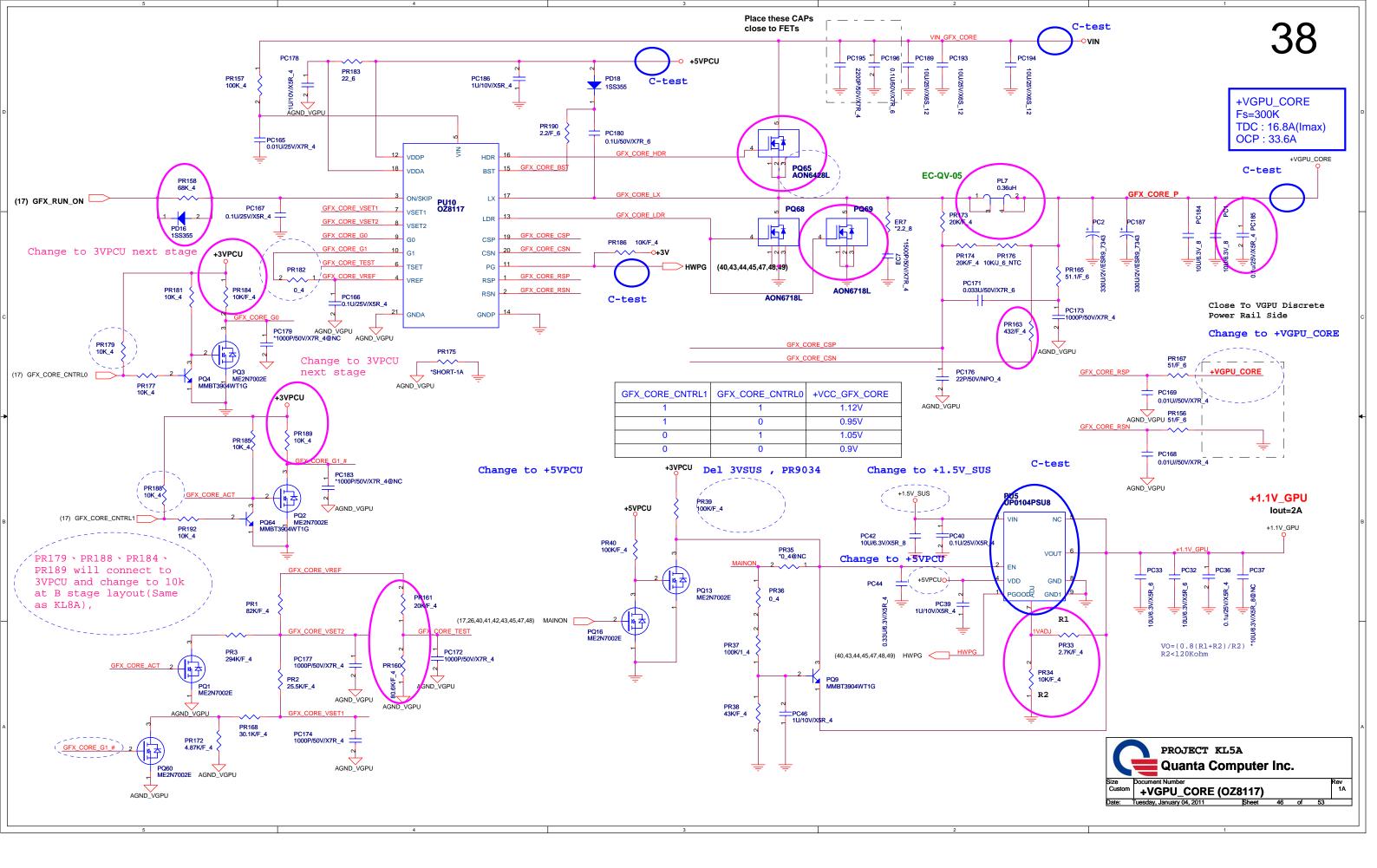


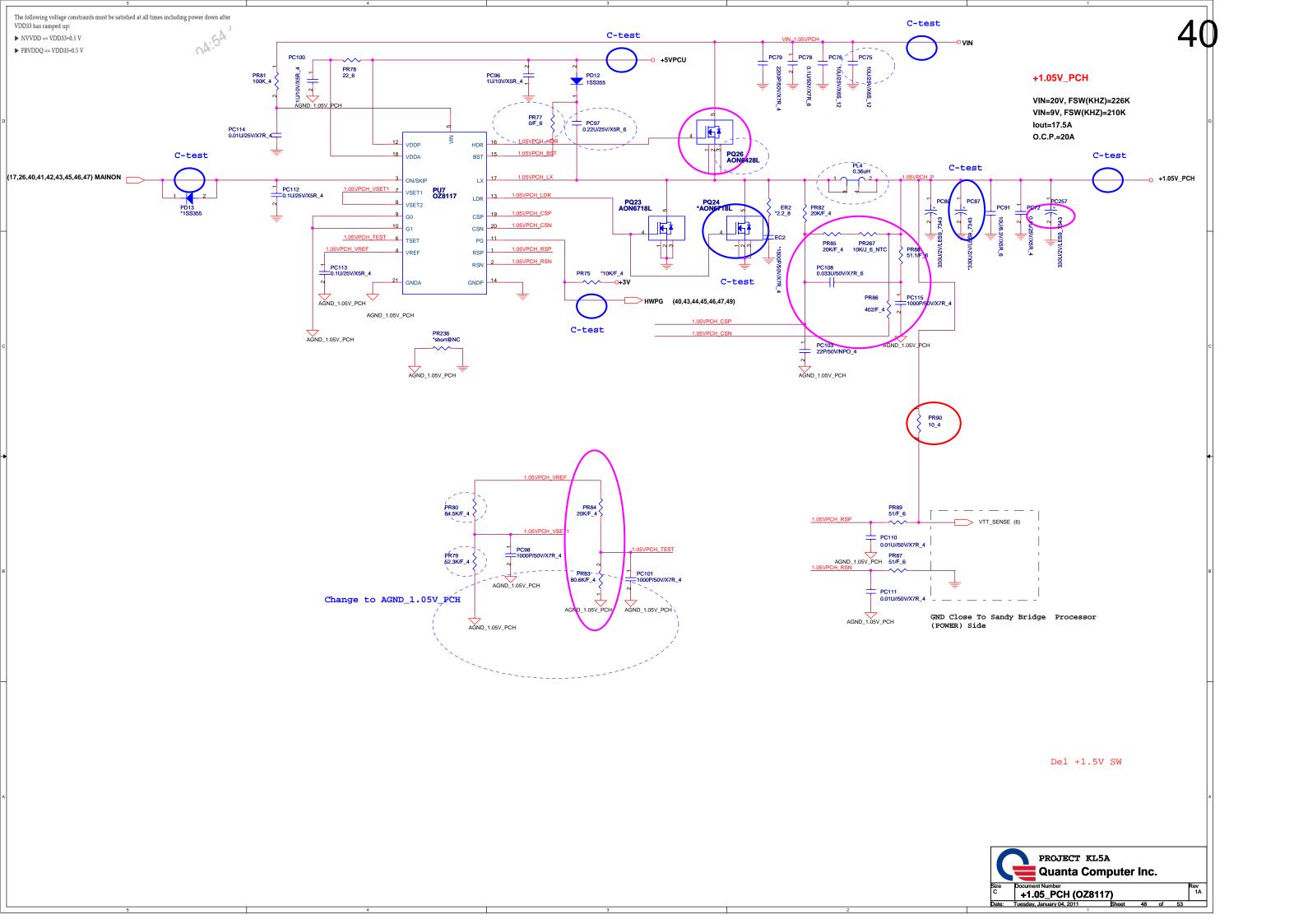


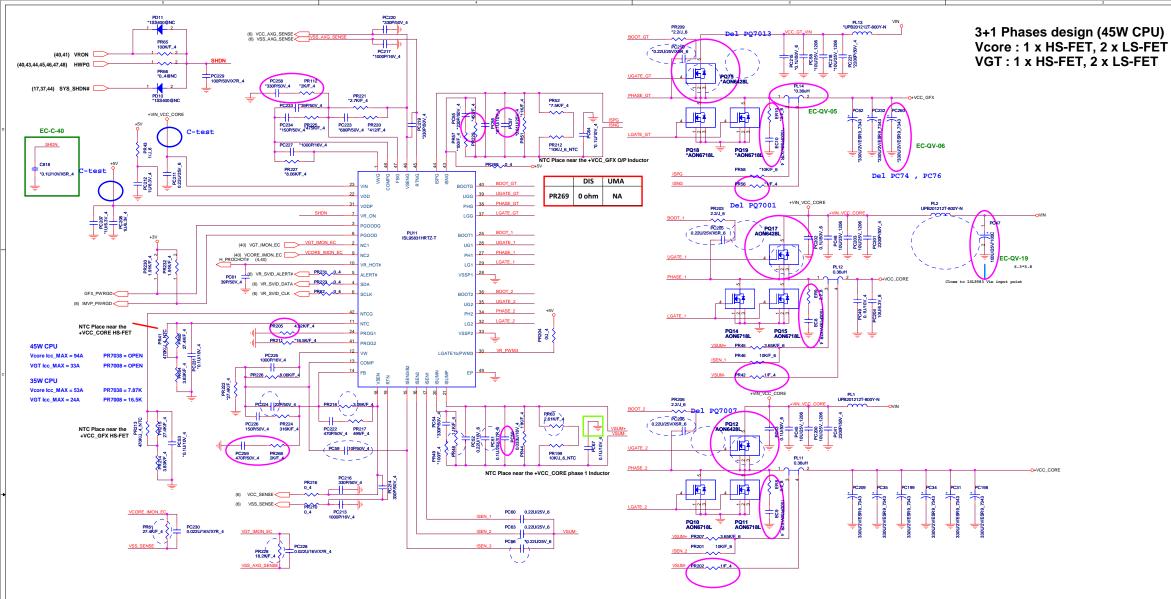








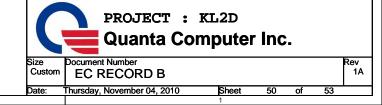






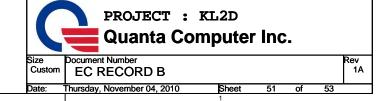
KL9A Schematic EC Tracking Record B (for A2 --> B)Sep. 27, 2010

TG "		De manda bila	Don't ACC 1 3
EC #	Page	Description	Part Affected
EC-B-00	4	Change U18 output type from coms to open-drain.	U18
EC-B-01	10	Remove TPM funtion. (LPC interface)	U14
EC-B-02	10,38	Remove keyboard light funtion.	U14,CN3
EC-B-03	11	Switch pins between BOARD_ID0 and BOARD_ID1.	U14
EC-B-04	11,31	Change net name from WIMAX_OFF# TO WLAN_OFF#, also add pull high 10K with GPIO16	U14,R530
EC-B-05	11	Add board id table.	
EC-B-06	25	Change ESD protection components.	U47,U48
EC-B-07	26	Modify the DIS backlight pin connecting to LVDS connector.	CN1
EC-B-08	28	Add R37 and R47 for normal-open audio jack.	R37,R47
EC-B-09	29	Add SD_4~SD_7 to support SD 3.0	CN12
EC-B-10	30	Remove 2nd battery switch.It is only for KL8/8A.	
EC-B-11	31	Correct the LPC connection for debug card.	CN26
EC-C-12	32	change capacitors connection from +3V to +3.3V_SSD,+1.5V to +1.5V_WIMAX	
EC-B-13	32	Remove unused nets in SSD connector.	CN24
EC-B-14	33	Switch the PCIE_TXN5 , PCIE_TXP5 for the right connection.	U21
EC-B-15	35	Change control signal of U25 enable pin from USB_ON to USB_CHARGE_ON for usb charge function.	U25
EC-B-16	28	Modify left & right sound reverse issue	
EC-B-17	35	Correct USB charge IC footprint.	U27
EC-B-18	36,42	Remove G-sensor circuits.	U17
EC-B-19	37	Correct the pin connection of CN8.	CN8
EC-B-20	38	Correct LED footprint.	LED1,LED2
EC-B-21	38	Add R51,R82 for user button defined as a power button function.	R51,R82,R378
EC-B-22	40	Add R692,R693 and disable EMI solution "CML3".	R692,R693,CML3
EC-B-23	40	Remove TPM circuits.	
EC-B-24	42	Correct connection and net name of NOVO_BTN#	
EC-B-25	42	Add KB_MATRIX signal for different keyboard matrix selection between KL7 and KL9.	R376,R377
EC-B-26	46,48	Add a +1.5V_GPU and +1.8V_GPU circuits for GPU power sequence tuning.	PQ9064,PC9202,PC9203,P9204,PC9205,PC9206,PR9246
EC-B-27	10,24,27 33,34,14 37,38	Add EMI solution	EC11,EC12,R658,R659,R660,R661,EC13,C711,CML1,R11,R12,CML2,R35,R36,CML4,R649,R651,C677,C678 CA1,CA2,CA3,CA4,CA5,CA6,EC14~EC26,C466
EC-B-28	40	Add ESD solution	SC1~SC30
EC-B-29	39	Follow PDC standard parts pin definition	CN16



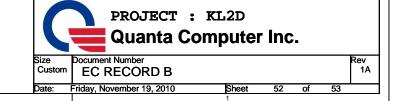
KL9A Schematic EC Tracking Record B (for A2 --> B)Sep. 27, 2010

EC #	Page	Description	Part Affected
EC-B-30	4,8	Add net PCIECLKRQ5~9#	U14
EC-B-31	4,8,9 10,26 42	Add RF solutions	R632,R633,C704,C705,C706,C713,R662,R664,R678,R699,R700,R701,R702,R703,C714,C715 C717,C718,C720,C727,C809,C810,C811,C812,C813,C814
EC-B-32	42	Change EC GPIO	U17
EC-B-33	10,33	Change PCH GPIO66 net name to PCH_CLK_25M and connect to USB3.0 XTAL	R636,R637
EC-B-34	4	Delete XDP_DBRST# pull high RES	U32,R598
EC-B-35	4	Add VCCSA_SEL pulli down RES	R598
EC-B-36	4	Disconnect SLP_A# from PCH to EC	
EC-B-37	41	Modify hole footprint	Hole21,Hole3
EC-B-38	35	Un-stuff USB charger schematic	R461,R465,C530,U27,R689,R690
EC-B-39	46	Modify power sequence to fix S3 issue	PR266
EC-B-40	8,27 28,53 40,38	Reserve ESD solution	RV16,C815,C816,C817,C818,C819,C820,C821,C822,C823,C824
EC-B-41	45	Power add discharge current solution	PD22
EC-B-42	9	Follow vendor XTAL CAP suggestion	C118,C119
EC-B-43	42	Change EC PN & un-stuff XTAL	Y4,C369,C375,R336,U17
EC-B-44	6 53	Del +VCC_GFX power	C684,C685,C690,C682,C302,C310,C313,C319,C314,C693,C323,C315,R597,R591 PL13,PC221,PC218,PC58,PC215,PQ75,PC232,PC62,PL14,PR56,PR58,ER10,EC10,PQ1,PQ19,PR209,PC210 PC64,PR52,PR212,PR51,PC57,PC56,PR229,PC220,PC217,PC219,PR221,PR220,PC223,PR112, PC258,PC233,PR225,PC234,PC227,PR227



KL9A Schematic EC Tracking Record C (for B --> C)Nov. 4, 2010

EC #	Page	Description	Part Affected
EC-C-00	36	Change power LED pull high power plane to +3VPCU to fix system enter S3 can't flicker issue	LED1
EC-C-01	38	Add EMI solution	SC31,SC32,SC33,SC34,SC35,SC36,SC37,SC38
EC-C-02	39	Modify Hole footprint	Hole1,Hole2,Hole6,Hole14,Hole16,Hole17,Hole20,Hole19,Hole9,Hole8
EC-C-03	12	Reserve CAP for +VCCAFDI_VRM	C825
EC-C-04	38	Delete ESD solution SC9 due to +1.5V power plane was deleted & change SC17 power plane bridge, add some component	SC9,SC17,SC25,SC39,SC40,SC41,SC42,SC43,SC44,SC45,SC14,SC18,SC19,SC28,SC29,SC30,SC10,SC11 SC12,SC13,SC15,SC22,SC46
EC-C-05	36	Modify LED footprint to fix SMT issue	LED3
EC-C-06	25	Modify bead footprint to fix SMT issue	L37
EC-C-07	21	Modify VRAM footprint to fix SMT issue	U4,U5,U28,U29
EC-C-08	4	Un-stuff AND gate component	U18,C366,R314,R313
EC-C-09	27	Change SD_CLK CAP from 33p to 10p	C425
EC-C-10	22	Change RES value to fix HDMI test fail item	R399,R400,R401,R402,R403,R404,R405,R406
EC-C-11	26	Reserve diode for EAPD pin	D23
EC-C-12	9	Un-stuff JTAG RES	R181,R182,R528,R534,R533,R538,R168
EC-C-13	31	Add USB3.0 schematic	CN23,R369,R371,CML4,R637,R657,R704,R705,Q53,Q54,C706,C826,C827,C828,R636,R155,R707,C829,Q58,C
EC-C-14	31	Modify TP footprint to 3050	TP20,TP21,TP22,TP23
EC-C-15		Modify 0 ohm RES to short pad	R592,R608,R326,R274,R287,R292,R502,R504,R505,R512,R513,R521,R527,R91,R245,R258,R587,R301 R648,R451,R380,R442,R366,R425,R623,R673,R686,R77,R430,R432,R101,R212,R221,R232,R235,R239 R563,R586,R588,R600,R66,R71,R94,R391,R392,R393,R394,R252,R242,R248,R250,R603,R65,R233 R4,R50,R652,L49,L53,R431,R364,R370,R397,R448,R384,R446,L23,R40,R60,R349
EC-C-16	12	Change 0.002 ohm RES to 0 ohm	R247,R261,R254
EC-C-17	26	Stuff ESD solution	C480,C481,C482,C483
EC-C-18	10	Remove RF_ON pull down RES	R522
EC-C-19	29	Add net WWAN_OFF# to disable WWAN function	
EC-C-20	12	Change 0 ohm RES to bead	R222
	4	For INTEL design guide definition and material shortage, will change to 25.5ohm	R315
EC-C-21			



	KL9A	KL9A Schematic EC Tracking Record QV (for C> QV)DEC. 20, 2010				
	EC #	Page	Description	Part Affected		
D	EC-QV-00	42	Add power circuit for charge issue.	PR9252,PR9253,PR9254,PR9255,PR9256,PC9212,PC9213,PD23,PU13,PQ9070		
	EC-QV-01	37	Add 0 Ohm for thermal sensor of DDR & WWAN	R133,R155		
	EC-QV-02	33	Modify the USB charge circuit(Add option and reverse circuit, change the USB switch EN to USB_ON_R)	R522,R636,R708,R709,R710,Q60		
	EC-QV-03	11	Change the SV_DET pull high to +3V_S5 from +3V			
	EC-QV-04	25	Change footprint of L37 for SMT request	L37		
	EC-QV-05	43	Change footprint of PL4, PL6, PL7, PL15, PL16	PL4, PL6, PL7, PL15, PL16		
	EC-QV-06	49	Add capacitor in +VCC_GFX	PC260		
	EC-QV-07	4	Add un-stuff capacitor on H_PWRGOOD_R	C900		
	EC-QV-08	4	Change to component stuff	R325,Q29		
_	EC-QV-09	8	Add un-stuff capacitor on SYS_PWROK	C901		
	EC-QV-10	8	Change R493 to un-stuff	R493		
	EC-QV-11	9	Change footprint to shortpad	R409,R153		
	EC-QV-12	9	Add 1M ohm on ACZ_SYNC_CODEC	R711		
	EC-QV-13	9	Change C119,C118 to 18p from 6p for RTC issue	C118,C119		
	EC-QV-14	30	Change component to un-stuff.	C783,C784,C736		
	EC-QV-15	26	Change the footprint for EMI solution stuff BEAD	R391,R392,R393,R394		
С	EC-QV-16	39	Change HOLE8 to NTPH			
	EC-QV-17	31	Modify USB3.0 circuit for power saving.	Q35,R414,R415,D28,R712,Q62,R716,C950,Q63,R717,C951,C952,R713,R714,Q61,C953,R715,R421		
	EC-QV-18	22	Change the footprint to 4 GND PIN for HDMI	CN22		
	EC-QV-19	49	Change PC47 to stuff	PC47		
	EC-QV-20	38	Change the P/N for cost saving	SC2,SC11,SC12,SC13,SC14,SC15,SC16,SC20,SC21,SC22,SC27,SC28,SC29,SC30,SC39,SC40,SC41,SC42,SC43,SC44,SC45,SC46,SC31,SC32,SC33,SC34,SC35,SC36,SC37,SC38		
•	EC-QV-21	29	Change C497 to stuff	C497		
В						

