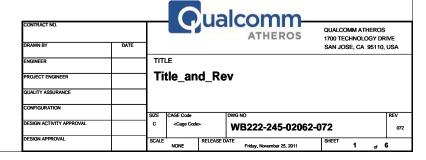
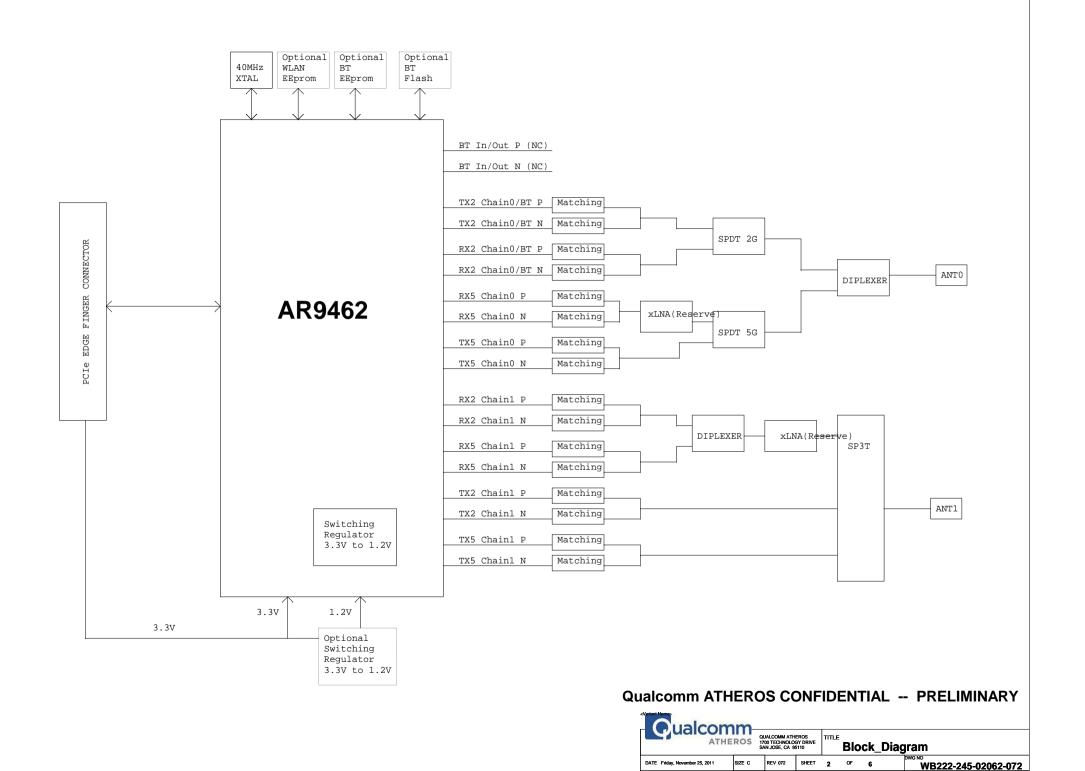
WB222

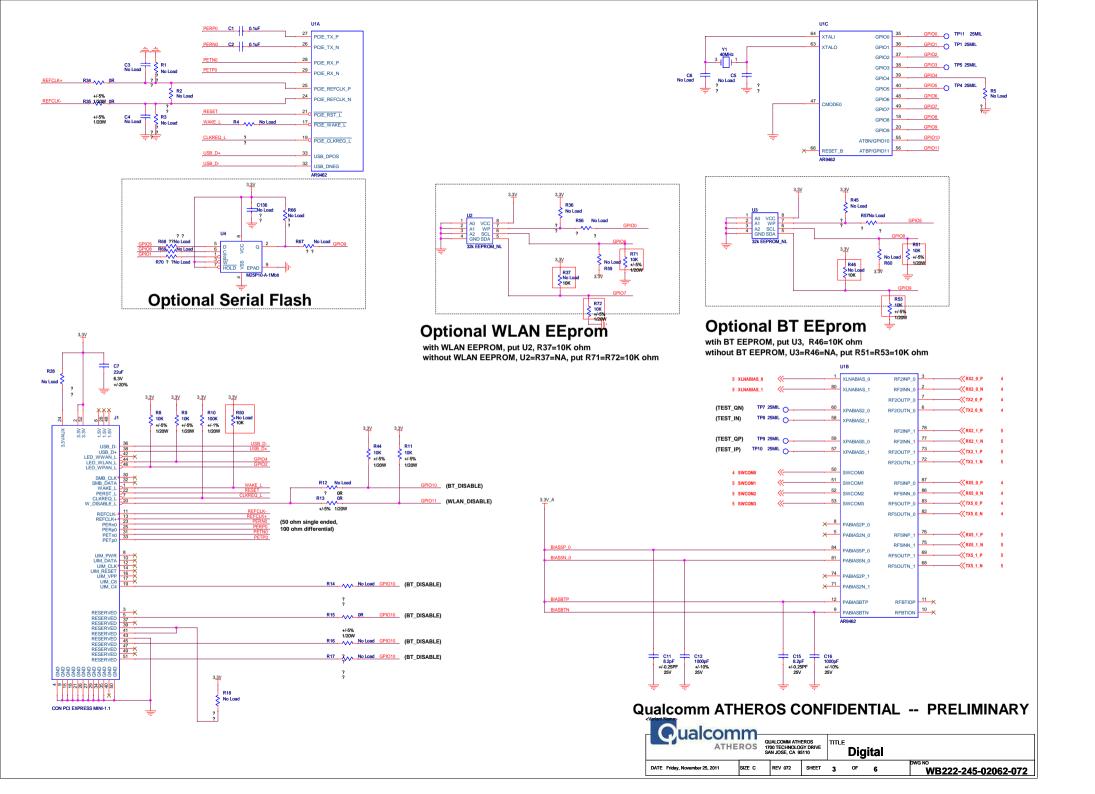
AR9462 based WLAN 2 x 2 802.11 a/b/g/n + BT Combo Reference Design PCle Half-Mini Form Factor

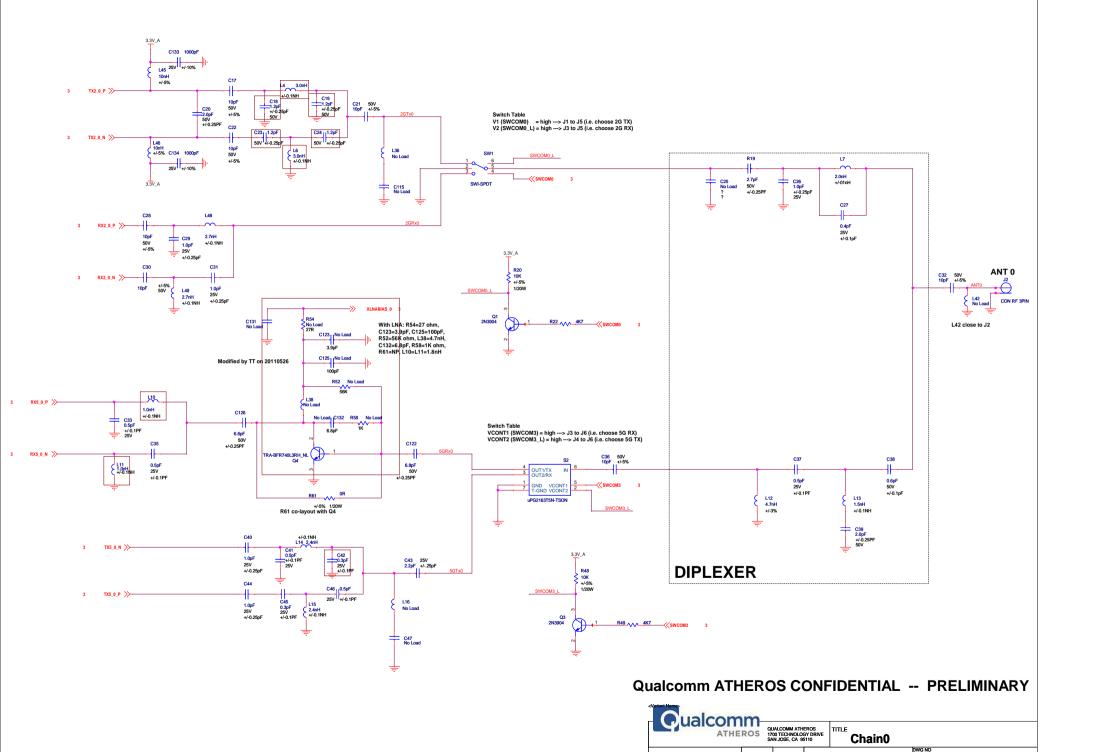
09/14/2011	250-02062-070	RL	Page 3, Reserve R51, R53 for case of without BT EEPROM Page 3, Reserve R71, R72 for case of without WLAN EEPROM Page 3, Reserve one serial Flash Page 3, Reserve R50 for WOW function	
11/02/2011	250-02062-071	RL	1. Page 3, Remove: U2,U3,R37,R46; Put R51=R53=R71=R72=10K ohm for Non-EEPROM 2. Page 5, Modify: L22=1.8nH,C135=1.3pF,C52=1.5pF,C51=1.8pF,L27=3.3nH 3. Page 6, Remove: C65,C88	
11/25/2011	250-02062-072	RL	Page 4: Modify C42=0.3pF to fix Tx mask Page 5: Modify C71=0.5pF to fix Tx mask	

	DATE	REVISION NUMBER	INITIALS	DESCRIPTION
	8/1/2010	250-02062-010	нт	Initial release; based on 8675_245-02010-010-sch.dsn
	11/24/2010	250-02062-011	нт	BOM Changes: 1) R31=NL. R43=0ohm. (Rework6 - configure to use internal switcher). 2) C61=C66=8.2pF; C64=1.5pF;C62=C63=C67=C68=1.0pF;L25=L27=2.7nH. (Rework10 - 2G TX Chain1 matching improvements). 3) C17=C22=8.2pF; C20=0.5pF;C18=C19=2.2pF; C23=C24=2.7pF;L4=2.7nH;L6=3.3nH. (Rework11 - 2G TX Chain1 matching improvements). 4) L30=L28=10nH. (Rework12 - 5G TX Chain1 matching improvements). 5) C27=0.4pF;C38=0.6pF. (Rework13 - Chain0 Diplexer improvements).
	01/06/2011	250-02062-012	нт	BOM Changes: 1) R19=2.7pF. (Rework14 - Chain0 Diplexer tuning). 2) C52=C53=L19=NL;L18=4.7nH;C48=2.2pF;C49=2.7pF;L17=2.0nH (Rework17 - Chain1 RX tuning). 3) L12=4.7nH;C39=2.0pF. (Rework21 - Chain0 Diplexer tuning).
	02/07/2011	250-02062-013	нт	BOM Changes: 1) C17=C22=2.2pF. (Rework22 - Chain0 2G TX).
	05/19/2011	250-02062-021	FM	BOM Changes: 1) C20=1.5pF, C17=C22=10pF, C23=C24=3pF, L4=3.3nH. (Chain0 2G TX). 2) C67=C68=2pF (Chain1 2G TX). 3) C41=C45=C42=C46=0.3pF, L14=L15=2.1nH (Chain0 5G TX).
	05/24/2011	250-02062-022	FM	BOM Changes: 1) C67=C68=1.8pF, C116=0ohm, L37=C119=1.8pF, R50=2.7nH (Chain1 2G TX).
	05/27/2011	250-02062-040	FM,TH	1) Add R56 and R57 for Jupiter 1.0 or Juipter 2.0 selection. 2) Add L42 and L43 for ESD protection. 3) Add R55, C65 for isolation. Add R59/R60 (EEPROM SCL pull up Res backup). 4) Del C34 5) Chain#0 xLNA refer from Chain#1 and HB112/116.
	06/21/2011	250-02062-041	TH	1) Manually add the C45, C46, C133, C134 and cut U1 pin5, 8 to solve 2G Tx Chain#0 oscillation. Its matching also changed.
	06/24/2011	250-02062-050	ТН	1) Del C58. Change 2G Rx chain#0,1 structure. 2) Add R61, R62 to bypass xLNA.
	07/15/2011	250-02062-051.betaA	TH	1) L20=22nH, L23=1.6nH for better Rx performance. 2) C130=NL, L44=2nH, C119=1pF for Chain#1 2G Tx EVM.
	08/04/2011	250-02062-052	RL	Page 5, Fix Chain1, 2.4G, TX EVM and 2-nd Harmonic: L44=2.2nH, C130=1.0pF, C119=1.0pF,L27=1.8nH Page 6, Fix PCle Interface: C104=C105=100nF Results 1, Page 3, Fix BT bring up: R44=10K ohm
	08/14/2011	250-02062-053	RL	1. Page 5, Fix 2.4G TX: L27=2.2nH
	09/01/2011	250-02062-060	RL	Page 3, fix chain1 2.4G Tx: Remove C13,C14 Page 4, 5G Rx: Non-deposit LNA and relative components Page 4, 5G Rx without LNA: Modify L10=L11=InH Page 4, Fix 5G Tx: Modify L14=L15=2.4nH,C41=C46=0.5pF,C42=0.2pF Page 4, Fix 2.4G Tx: Modify L4=L6=3nH, C18=C19=C23=C24=1.2pF Page 5, Non-deposit LNA and relative components Page 5, Son-deposit LNA and relative components Page 5, 2.4G Rx without LNA: Modify L9=L47=3.0nH,C135=1pF, C53=1.5pF,L17=2.4nH,C51=1.2pF Page 5, 5G Rx without LNA: Modify L21=L23=1nH,C59=0.3pF Page 5, Fix chain1 2.4G Tx: Add L52=L53=10nH, Modify L27=2.7nH,C67=C68=1pF,L44=2.4nH,C130=C119=1.5pF Near 1 Near 1
	09/13/2011	250-02062-061	RL	1. Page 3, Modify R11=10K ohm, R13=0 ohm and R12=NA
_	1			1





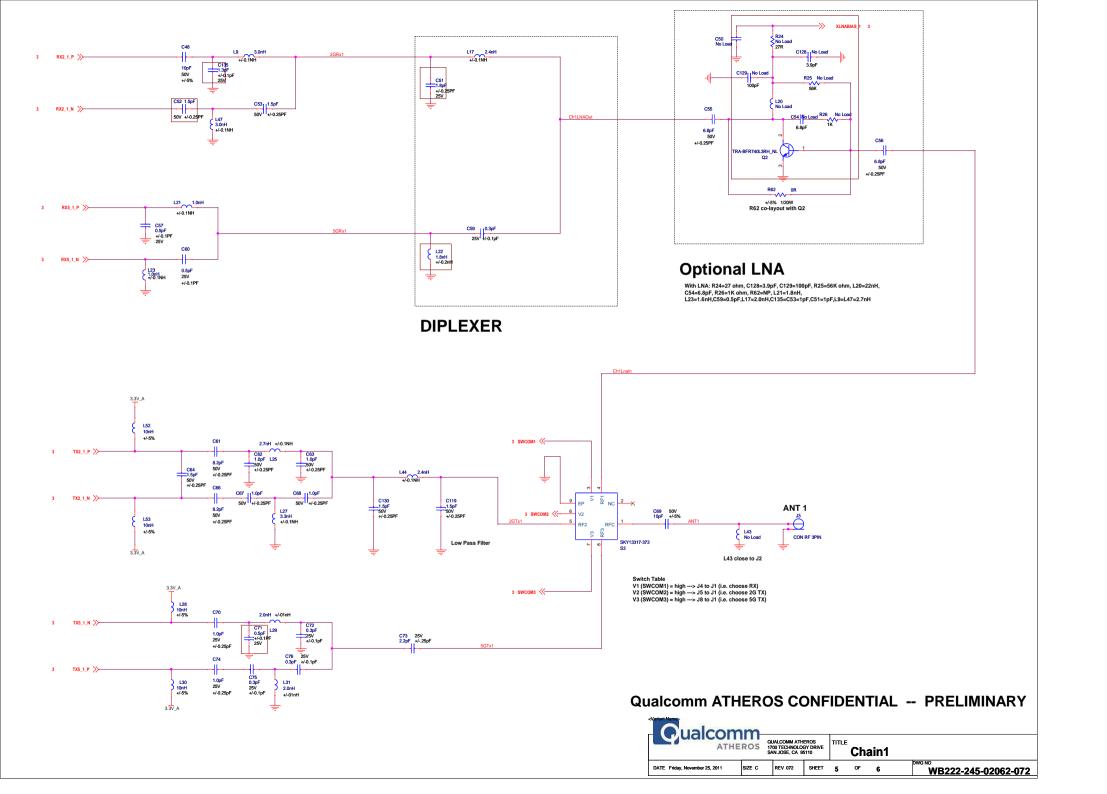


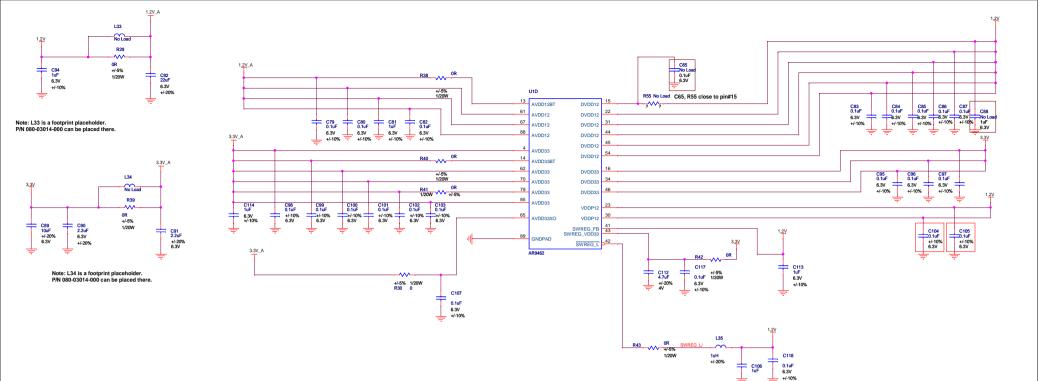


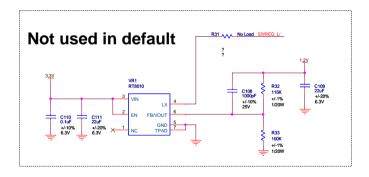
Chain0

WB222-245-02062-072

DATE Friday, November 25, 2011







Optional "External" Switching Regulator

Notes: To enable the Switching Regulator, R31=00hm. R43=NL. To bypass the Switching Regulator, P31=NL.

R31=NL. R43=Oohm. Do not unload C110, C111, or C109.

For Production, VR1=C108=R31=R32=R33=NL. R43=Oohm. Do not unload C110, C111, or C109.

As shown, the switching regulator is loaded but bypassed.

PANEL







HOL1 O-X HOL2 O-X HOL3 O-X HOL4 O-X

Qualcomm ATHEROS CONFIDENTIAL -- PRELIMINARY

