







Partlist

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Part Sheet	Val ue	Devi ce	Package	Li brary	
ANT1 ANT2 BALUN C1 C2 C3 C4 C5 C6 C7 C8 C10 C11 C12 C13 C19 C20 C21 C22 C23 C24 C25 C27 J1 LED0 LED1 LED2 LED3 LED4 LED5 PROC R1 R2 R3 R4 R5 R6 R7 R8 R9 U1 U2 U3 U4 U5 U1 U1 U1 U1 U1 U1 U1 U1 U1 U1 U1 U1 U1	ANTENNA ANTENNA-CHIP HHM1710D1 10nF 0. 1uF 1uF 1uF 1uF 1uF 1uF 22pF 22pF 22pF 22pF 22pF 22pF 22pF 22	ANTENNA ANTENNA-CHI P BALUNA CAP0402-CAP C	R0402 R0402 R0402 R0402 R0402 R0402 R0402 R0402 MLF-6 SS0P28 QFN-32 SC-70-6 CRYSTAL-SMD OSCI LLATOR-SMD	led led led led led led stan rcl rcl rcl rcl rcl rcl rcl rstan ftdi chi p stan stan stan stan	111111111111111111111111111111111111
X2	USB-A-H	USB-A-H	USB-A-H	SparkFun	1

Antenna diversity

If you have implementation of antenna diversity with AT86RF231, you need to populate an RF switch (U4). For this case, you should leave J2 and J3 open. You also need to populate R7, R8, C10, and C11. The values for R7 and R8 do not have to be exactly 2k. You can pick any resistors between 1.7k and 2.3k.

If you do not have implementation of antenna diversity, you **must not** populate an RF switch (U4). You do not have to populate R7, R8, C10, and C11. If you would like to use a whip antenna (ANT1), you have to populate J3 with a zero ohm resistor. If you would like to use a chip Antenna (ANT2), you have to populate J2 with a zero ohm resistor.

Do not populate both J2 and J3 for any cases.

If you have any questions, please ask Stan Baek (stanbaek@eecs.berkeley.edu).