

Item Qty Reference		Value	Description	Placed
1	1 B1	9V BATTERY	BATTERY STRAP, 9 VOLT, SNAP ON, 6" LEADS	NP
2	2 C5,C29	10pF	CAP. CERAMIC, .0603	NP
3	2 D1,D7	SMA,J12CA	DIODE, TRANSIENT VOLTAGE SUPPRESSOR, SMC	NP
6	1 J5	3M 251C-6002 (2x5 PIN VERT)	CONNECTOR, 10 PIN, 2 ROW, VERT	NP
7	1 L2	4700uH	INDUCTOR, SMD, WIRE WOUND	NP
4	1 J3	4 PIN	CONNECTOR, LEADED, 4 PIN, VERT	NP
5	1 J4	3M 252C-6002 (2x10 PIN VERT)	CONN, 20 PIN, 2 ROW, VERT	NP
8	33 TP1,1TP2,TP4,TP5,TP9,TP11,TP12,TP13,TP15,TP16,TP19,TP20,TP21,TP22,TP25,TP26,TP27,TP31,TP32,TP33,TP34,TP36,TP36,TP37,TP38,TP39,	TEST POINT, SMD PAD, .045 DIA	TESTPOINT, SMD PAD, .040 DIA	NP
9	29 C1,C3,C6,C7,C9,C10,	1uF	CAP. CERAMIC, .0603	
10	6 C2,C4,C8,C16,C31,C43	10uF	X5R CAP. CERAMIC, .0805	
11	2 C11,C13	30pF	C0G CAP. CERAMIC, .0603	
12	1 C14	.01uF	X7R CAP. CERAMIC, .0603	
13	2 C18,C41	1000pF	X7R CAP. CERAMIC, .0603	
14	1 C36	10uF	ELEC CAP, ELEC, SMD 5MM	
15	1 C38	100uF	ELEC CAP, ELEC, SMD 6.3MM	
16	3 D2,D5,D6	MBR0520LT1	DIODE, SCHOTTKY BARRIER	
20	1 D9	BAV99	DIODE, SERIES SWITCHING, SOT23	
21	1 J1	PULSE J00-0045 (RJ45 W/LED5)	CONN, INTEGRATED MAGNETICS	
22	1 J2	2.5mm	CONNECTOR, DC POWER JACK 2.5MM	
23	1 J6	HIROSE DF3-2P-2V (2 PIN SMD)	CONN, 2 PIN, 2MM HEADER	
24	1 L1	2000 ohm @ 100MHz	INDUCTOR, SMD, FERRITE	
25	1 PCB1	XFC285 Rev.3	PCB 4 LAYER, .062" FR4	
26	4 Q1,Q2,Q8,Q14	MMBT4401	TRANSISTOR, NPN, SMD	
27	3 Q3,Q6,Q8	FON352AP	MOSFET, P-TYPE	
28	3 Q4,Q5,Q7	ND531AN	MOSFET, N-TYPE	
29	9 R1,R2,R7,R8,R10, R31,R37,R42,R43	1k	RES. CERAMIC, .1W, .0603	
30	2 R4,R5	160	RES. CERAMIC, .1W, .0603	
31	2 R6,R23	0	RES. CERAMIC, .1W, .0603	
32	2 R13,R16	6.81k	RES. CERAMIC, .1W, .0603	
33	1 R14	2.49k	RES. CERAMIC, .1W, .0603	
34	4 R15,R19,R21,R22	49.9	RES. CERAMIC, .125W, .0805	
35	3 R17,R20,R26	10k	RES. CERAMIC, .1W, .0603	
36	1 R18	1.5k	RES. CERAMIC, .1W, .0603	
37	8 R24,R27,R28,R29, R30,R36,R38,R45	100k	RES. CERAMIC, .1W, .0603	
38	2 R32,R35	3.3k	RES. CERAMIC, .1W, .0603	
39	1 R33	1M	RES. CERAMIC, .1W, .0603	
40	1 R34	10	RES. CERAMIC, .125W, .0805	
41	1 R40	220	RES. CERAMIC, .1W, .0603	
42	1 R44	430	RES. CERAMIC, .1W, .0603	
43	1 R46	100	RES. CERAMIC, .1W, .2512	
44	2 SW1,SW2	ALPS SKHHLNA010	SWITCH, RA WOM, LEADED W/GND TAB	
45	1 U1	DM9161AEP	TRANSCEIVER, ETHERNET	
46	1 U2	AT91SAM7X256	IC, MICROCONTROLLER	
47	1 U3	MCP121	IC, VOLTAGE, SUPERVISOR	
48	1 U4	TLV1117	IC, REG, 3.3V, SMD	
49	1 U5	AT75128A	IC, SPI/SERIAL EEPROM 128K	
50	1 U6	ZW3102	MODULE, Z-WAVE TRANSCEIVER	
51	1 UB	AT45DB041B	IC, SERIAL RAM, 4 MEG	
52	1 Y1	25 MHz	CRYSTAL, 25MHz, 20pF, SMD	
53	1 Y2	18.432 MHz	CRYSTAL, 18.432MHz, 20pF, SMD	

TITLE

PCB ASSEMBLY

DESIGNED BY: J. J. JONES

DATE: 05/05/08

SCALE: 2/1

SHEET: 5 OF 5

PROJECT LEADER

DESIGNER

ELECT. ENGINEER

TEST ENGINEER

PROJECT MANAGER

DATE

REVISION

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