Wireless Printer (WPR) BOM
Revision: D
Last Modified: 09/20/2010 (see change list below)

Outsite Networks, Inc. 2009
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Line Item	Quantity	Designator	Value	Footprint	Manufacturer	Part Number	Distributor	Distributor Part Number
1	71	C1, C2, C3, C4, C8, C9, C10, C11, C12, C14, C15, C16, C17, C18, C22, C44, C49, C51, C52, C53, C55, C56, C59, C70, C73, C78, C79, C80, C81, C82, C126, C127, C128, C129, C130, C131, C136, C138, C139, C140, C141, C142, C145, C146, C148, C149, C151, C152, C155, C157, C158, C160, C161, C162, C163, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C185, C186, C187	0.1uF	603	Panasonic	ECJ-1VB1E104K	Digikey	PCC2277CT-ND
2	14	C5, C13, C19, C20, C23, C33, C50, C54, C71, C75, C137, C150, C188, C190	10uF	603	Panasonic	ECJ-1VB0J106M	Digikey	PCC2395CT-ND
3	4	C6, C7, C67, C68	22pF	603	Panasonic	ECJ-1VC2A220J	Digikey	PCC1943CT-ND
4	11	C21, C34, C45, C46, C47, C48, C134, C135, C147, C156, C189	10uF	1206	Panasonic	ECJ-3YB1C106M	Digikey	PCC2227CT-ND
5	2	C24, C35	22uF	1210	Murata	GRM32ER61C226ME20L	Digikey	490-1881-1-ND
6	8	C25, C32, C36, C76, C77, C83, C84, C108	470pF	603	Murata	GRM188R71H471KA01D	Digikey	490-1489-1-ND
7	1	C26	470uF	CAP_FK_V	Panasonic	EEV-FK1V471Q	Digikey	PCE3464CT-ND
8	2	C27, C37	1.0uF	1210	Panasonic	ECJ-4YB1H105K	Digikey	PCC2303CT-ND
9	2	C28, C38	0.47uF	805	Murata	GRM21BR71H474KA88L	Digikey	490-3328-1-ND
10	6	C29, C39, C165, C166, C167, C168	10pF	603	Murata	GRM1885C1H100JA01D	Digikey	490-1403-1-ND
11	2	C30, C40	1000pF	603	Murata	GRM1885C1H102JA01D	Digikey	490-1451-1-ND
12	3	C31, C41, C43	10uF	1210	Murata	GRM32ER7YA106KA12L	Digikey	490-5314-1-ND
13	1	C42	0.1uF	805	Panasonic	ECJ-2FB1H104K	Digikey	PCC2452CT-ND
14	3	C57, C62, C65	15pF	805	Murata	ERB21B5C2E150JDX1L	Digikey	490-4886-1-ND
15	2	C58, C66	27pF	805	Panasonic	ECJ-2VC1H270J	Digikey	PCC270CGCT-ND
16	2	C60, C63	120pF	805	Murata	GRM2165C2A121JA01D	Digikey	490-1601-1-ND
17	2	C61, C64	47pF	805	Murata	GRM2195C2A470JZ01D	Digikey	490-1593-1-ND
18								
19	1	C69	330pF	603	Panasonic	ECJ-1VC1H331J	Digikey	PCC331ACVCT-ND
20	2	C72, C74	1.0uF	603	Panasonic	ECJ-1VB1A105K	Digikey	PCC2174CT-ND
21	10	C85, C88, C103, C114, C115, C117, C119, C120, C121, C122	10nF	402	Murata	GRM155R71C103KA01D	Digikey	490-1313-1-ND
22	21	C86, C87, C89, C90, C91, C92, C93, C94, C98, C99, C100, C101, C102, C104, C105, C106, C112, C113, C118, C123, L13	10pF	402	Murata	GRM1555C1H100JZ01D	Digikey	490-1278-1-ND
23	1	C107	1.0pF	402	Murata	GRM1555C1H1R0CA01D	Digikey	490-3199-1-ND
24	1	C96	1.6pF	402	Murata	GJM1555C1H1R6CB01D	Digikey	490-3088-1-ND
25	2	C97, C95	0.5pF	402	Panasonic	GRM1555C1HR50CZ01D	Digikey	490-1263-1-ND
26	1	C109	DNI	402	Murata			
27	1	C110	15nF	402	Murata	GRM155R71C153KA01D	Digikey	490-1314-1-ND
28	2	C124, C125	5.0pF	402	Murata	GRM1555C1H5R0CZ01D	Digikey	490-1274-1-ND
29	2	C132, C133	15pF	603	Murata	GRM1885C2A150JA01D	Digikey	490-1331-1-ND
30	4	C143, C144, C153, C154	47pF	603	Murata	GRM1885C1H470JA01D	Digikey	490-1419-1-ND
31	2	C159, C164	4.7uF	603	Murata	GRM185R60G475ME15D	Digikey	490-3891-1-ND
32	1	C169	22nF	603	Murata	GRM188R71H223KA01D	Digikey	490-1517-1-ND
33	2	C170, C171	33pF	603	Murata	GRM1885C1H330JA01D	Digikey	490-1415-1-ND
34	4	D1, D3, D7, D10	B340LB-13-F	SMB	Diodes	B340LB-13-F	Digikey	B340LB-FDICT-ND
35	5	D2, D4, D6, D8, D11	1N4148WS-7-F	SOD-323	Diodes Inc	1N4148WS-7-F	Digikey	1N4148WS-FDICT-ND
36	1	D5	2.5V	SOT23-3L	National	LM4040DIM3-2.5/NOPB	Digikey	LM4040DIM3-2.5CT-ND
37	1	D9	1SMB5927BT3G	SMB	ON Semi	1SMB5927BT3G	Digikey	1SMB5927BT3GOSCT-ND
38	5	D12, D13, D14, D15, D16	Red	LED_PLCC2	Avago	HSMZ-A100-R00J1	Digikey	516-1459-1-ND
39	1	F1	1.0A	NANO_FUSE	Littelfuse	0452001.MRL	Digikey	F2600CT-ND
40	2	F2, F3	500mA	1206	Bourns	MF-NSMF050-2	Digikey	MF-NSMF050-2CT-ND
41	1	J1	SBH21-NBPN-D08-SM-BK	HEADER_SMT_2MM_V16A	Sullins	SBH21-NBPN-D08-SM-BK	Digikey	S9038-ND
42	1	J2	TCS7960-4320177	TCS7960-4320177	Hosiden	TCS7960-4320177		
43	1	J3	26-48-1035	HDR156_V3	Molex	26-48-1035	Digikey	WM4601-ND
44	1	J4	TSM-110-01-T-SH	TSM-110-01-T-SH	Samtec	TSM-110-01-T-SH	www.samtec.com	TSM-110-01-T-SH
45	1	J5	XG4C-2631	XG4C-2631	Omron	XG4C-2631	Digikey	OR901-ND
46	1	J6			Kobiconn	154-2442-E	Mouser	154-2442-E
47	3	J7, J8, J11		TH_MOD8_8	Amp	5555164-1	Digikey	A31442-ND
48	1	J9			Kobiconn	154-UAR80-E	Mouser	154-UAR80-E
49	2	J10, J13	53261-1271	53261-1271	Molex	53261-1271	Digikey	WM7630CT-ND
50	1	J12			JST	B5B-PH-K-S(LF)(SN)	Digikey	455-1707-ND
51	1	J14		J00-0065NL	Pulse	J00-0065NL	Digikey	553-1345-ND
52	6	L1, L2, L6, L7, L22, L23	BEAD	603	Panasonic	EXC-3BP121H	Digikey	P10750CT-ND
53	1	L3	4.7uH	2525	Vishay	IHLP2525CZER4R7M01	Digikey	541-1010-1-ND
54	1	L4	8.2uH	2525	Vishay	IHLP2525CZER8R2M01	Digikey	541-1012-1-ND
55	1	L5	10uH	2525	Vishay	IHLP2525CZER100M01	Mouser	70-IHLP2525CZER100M1
56	2	L8, L9	1.0uH	1210	API Delevan	S1210R-102K	Digikey	DN7904CT-ND
57	2	L10, L17	5.6nH	402	Murata	LQG15HS5N6S02D	Digikey	490-2619-1-ND
58	1	L11	15nH	402	Murata	LQG15HS15NJ02D	Digikey	490-2625-1-ND
59	1	L12	1.5nH	402	Murata	LQG15HS1N5S02D	Digikey	490-2612-1-ND
60								
61	1	L14, L15, L21	2.2nH	402	Murata	LQG15HS2N2S02D	Digikey	490-2614-1-ND
62								
63	1	L16	8.2nH	402	Murata	LQP15MN8N2B02D	Digikey	490-1135-1-ND
64								
65	1	L18	4.7nH	402	Murata	LQG15HS4N7S02D	Digikey	490-2618-1-ND
66	2	L19, L20	82nH	402	Murata	LQG15HS82NJ02D	Digikey	490-2634-1-ND
67								
68	1	LS1	GC0286MAPX	SPEAKER_SMT_1100	Shogyo	GC0286MAPX		
69	1	P1	SMA R/A	RF_SMA	Linx	CONREVSMA002	Digikey	CONREVSMA002-ND
70	5	Q1, Q2, Q3, Q4, Q5, Q7	2N7002	SOT23-3L	Fairchild	2N7002	Digikey	2N7002NCT-ND
71	1	Q6	NE662M04-A	SOT343	CEL	NE662M04-A	Digikey	NE662M04-A-ND
72	8	R1, R2, R3, R46, R47, R48, R49, R50	1.0k	603	Panasonic	ERJ-3GEYJ102V	Digikey	P1.0KGCT-ND
73	4	R4, R5, R6, R7	30k	603	Panasonic	ERJ-3GEYJ303V	Digikey	P30KGCT-ND
74	7	R8, R56, R57, R59, R60, R61, R62	27	603	Panasonic	ERJ-3GEYJ270V	Digikey	P27GCT-ND
75	1	R9	4.99k	603	Panasonic	ERJ-3EKF4991V	Digikey	P4.99KHCT-ND
76	1	R10	24.9k	603	Panasonic	ERJ-3EKF2492V	Digikey	P24.9KHCT-ND
77	2	R11, R25	40.2k	603	Panasonic	ERJ-3EKF4022V	Digikey	P40.2KHCT-ND
78	4	R12, R23, R27, R77	1.00k	603	Panasonic	ERJ-3EKF1001V	Digikey	P1.00KHCT-ND
79	1	R13	0	603	Panasonic	ERJ-3GEY0R00V	Digikey	P0.0GCT-ND
80	3	R14, R28, R30	8.06k	603	Panasonic	ERJ-3EKF8061V	Digikey	P8.06KHCT-ND
81	4	R15, R26, R73, R74	174k	603	Panasonic	ERJ-3EKF1743V	Digikey	P174KHCT-ND
82	1	R16	61.9k	603	Panasonic	ERJ-3EKF6192V	Digikey	P61.9KHCT-ND
83	1	R19	20.0k	603	Panasonic	ERJ-3EKF2002V	Digikey	P20.0KHCT-ND
84	4	R18, R21, R32, R44	10k	603	Panasonic	ERJ-3GEYJ103V	Digikey	P10KGCT-ND
85	2	R40, R41	2.00k	603	Panasonic	ERJ-3EKF2001V	Digikey	P2.00KHCT-ND
86	1	R20	13.3k	603	Panasonic	ERJ-3EKF1332V	Digikey	P13.3KHCT-ND
87	1	R22	1.0M	603	Panasonic	ERJ-3EKF1004V	Digikey	P1.00MHCT-ND
88	1	R24	42.2k	603	Panasonic	ERJ-3EKF4222V	Digikey	P42.2KHCT-ND
89	1	R17	24.3k	603	Panasonic	ERJ-3EKF2432V	Digikey	P24.3KHCT-ND
90	1	R29	71.5k	603	Panasonic	ERJ-3EKF7152V	Digikey	P71.5KHCT-ND
91	1	R31	768	603	Panasonic	ERJ-3EKF7680V	Digikey	P768HCT-ND
92	1	R33	127	603	Panasonic	ERJ-3EKF1270V	Digikey	P127HCT-ND
93	1	R34	820	603	Panasonic	ERJ-6GEYJ821V	Digikey	P820ACT-ND
94	1	R35	3.3k	805	Panasonic	ERJ-6GEYJ332V	Digikey	P3.3KACT-ND
95	2	R36, R38	1.5	805	Panasonic	ERJ-6GEYJ1R5V	Digikey	P1.5ACT-ND
96	5	R37, R39, R42, R45, R51	150	805	Panasonic	ERJ-6GEYJ151V	Digikey	P150ACT-ND
97	1	R43	20k	603	Panasonic	ERJ-3GEYJ203V	Digikey	P20KGCT-ND
98	1	R52	200	402	Panasonic	ERJ-2RKF2000X	Digikey	P200LCT-ND
99	1	R53	16.5k	402	Panasonic	ERJ-2RKF1652X	Digikey	P16.5KLCT-ND
100	1	R54	150k	402	Panasonic	ERJ-2RKF1503X	Digikey	P150KLCT-ND
101	1	R55	15k	603	Panasonic	ERJ-3GEYJ153V	Digikey	P15KGCT-ND

102	1	R58	22k	603	Panasonic	ERJ-3GEYJ223V	Digikey	P22KGCT-ND
103	1	R63	1.5k	603	Panasonic	ERJ-3GEYJ152V	Digikey	P1.5KGCT-ND
104	4	R64, R65, R66, R67	49.9	603	Panasonic	ERJ-3EKF49R9V	Digikey	P49.9HCT-ND
105	1	R68	10	603	Panasonic	ERJ-3EKF10R0V	Digikey	P10.0HCT-ND
106	1	R69	1.0M	603	Panasonic	ERJ-3GEYJ105V	Digikey	P1.0MGCT-ND
107	2	R70, R71	270	603	Panasonic	ERJ-3GEYJ271V	Digikey	P270GCT-ND
108	1	R72	12.4k	603	Panasonic	ERJ-3EKF1242V	Digikey	P12.4KHCT-ND
109	16	RN1, RN2, RN3, RN4, RN5, RN6, RN7, RN8, RN9, RN10, RN11, RN12, RN13, RN14, RN15, RN16		0402-4	Panasonic	EXB-28V270JX	Digikey	Y7270CT-ND
110	1	U1		LFBGA-217	Atmel	AT91SAM9G20B-CU	Nu Horizons	AT91SAM9G20B-CU
111	2	U2, U3		TSOP-54	Micron	MT48LC16M16A2P-7E:D	Nu Horizons	MT48LC16M16A2P-7E:D
112	1	U4		TSOP-48	Micron	MT29F32G08CBABAWP:B	Nu Horizons	MT29F32G08CBABAWP:B
113	1	U5		SO8	Atmel	AT45DB161D-SU	Nu Horizons	AT45DB161D-SU-ND
114	3	U6, U8, U29		SO8	Semtech	SC4215ASTRT	Digikey	SC4215ASCT-ND
115	1	U7		TSSOP-20TH	Linear	LT3510EFE#PBF	Nu Horizons	LT3510EFE#PBF
116	1	U9		SO14	TI	LM339AD	Digikey	296-6604-5-ND
117	1	U10	CS51413ED8G	SO8	ON Semi	CS51413EDR8G	Digikey	CS51413ED8GOS-ND
118	1	U11	MFRC530	SO32	NXP	MFRC53001T/0FE,112	Digikey	568-2223-5-ND
119	1	U12	MAX5556ESA+	SO8	Maxim	MAX5556ESA+	Digikey	MAX5556ESA+-ND
120	1	U13		TSOT23-8	Analog Devices	AD5228BUJZ10-RL7	Digikey	AD5228BUJZ10RL7CT-ND
121	1	U14		SOT23-5	TI	LMV321IDBVRQ1	Digikey	296-20922-1-ND
122	1	U15	LM4876M/NOPB	SO8	National	LM4876M/NOPB	Digikey	LM4876M-ND
123	1	U16			TI	SN74LVC125ANSR	Digikey	296-13234-1-ND
124	2	U17, U18	UPG2179TB	SOT-363	CEL	UPG2179TB	Nu Horizons	UPG2179TB-A-ND
125	1	U19	HHM1517	HHM1517	TDK	HHM1517	Digikey	445-1233-1-ND
126	1	U20	ZIC2410QN48	QFN-48	CEL	ZIC2410QN48	Nu Horizons	ZIC2410QN48
127	1	U21		6-TSON	CEL	µPG2250T5N		µPG2250T5N
128	1	U22			Johanson	2450LP15A050E	Digikey	712-1132-1-ND
129	3	U23, U24, U25	SP3232EBCN	SO16	Exar	SP3232EBCN	Nu Horizons	SP3232EBCN
130	2	U26, U27	SN74LVC14ADR	D014_N	TI	SN74LVC14ADR	Digikey	296-1699-1-ND
131	1	U28		QFN-36	SMSC	LAN8700C-AEZG	Nu Horizons	LAN8700C-AEZG
132	1	Y1	18.432MHz	HC49US	Abracon	ABLS-18.432MHZ-B2-T	Digikey	535-9072-1-ND
133	1	Y2	13.56MHz	HC49US	Abracon	ABLS-13.560MHZ-B2-T		
134	1	Y3	16.000MHz	ABM8	Abracon	ABM8-16.000MHZ-6-R70-C-1-X-P		
135	1	Y4	25.000MHz	HC49US	Abracon	ABLS-25.000MHZ-B2F-T	Digikey	535-9078-1-ND
136	2	C111, C116	10uF	3216-18	Kemet	T491A106K006AT	Digikey	399-3683-1-ND
137	1	Q8		SOT23-3L	Diodes	ZXM41N10FTA	Digikey	ZXM41N10FCT-ND
138	1	R75	215k	603	Panasonic	ERJ-3EKF2153V	Digikey	P215KHCT-ND
139	1	R76	5.60k	603	Panasonic	ERJ-3EKF5601V	Digikey	P5.60KHCT-ND
140	2	R78, R79	2.00k	402	Panasonic	ERJ-2RKF2001X	Digikey	P2.00KLCT-ND
141	1	WirelessPrinter_RevD_Gerbers.zip			Outsite Networks	WirelessPrinter_RevD_Gerbers.zip		
142	1	WirelessPrinter_PickNPlace_RevD.txt			Outsite Networks	WirelessPrinter_PickNPlace_RevD.txt		
143	1	R73	240	603	Panasonic	ERJ-3EKF2400V	Digikey	P240HCT-ND
144	1	R74	3.60k	603	Panasonic	ERJ-3EKF3601V	Digikey	P3.60KHCT-ND
145	1	U30	LM317KTTR	TO263-3	TI	LM317KTTR	Digikey	296-21390-1-ND
146	1	U31	DNI					

Summary of Changes

From Rev B (Preliminary - Not for build) to Rev B (Ready for build)
1) Added line item column
2) Line item 1: added C172,C173,C174,C175,C176,C177,C178,C179,C180,C181,C182,C183,C184,C185,C186,C187
3) Line item 1: removed C76,C77,C83,C84, moved to Line item 6
4) Line item 52: added L23
5) Line item 112: changed part number
6) Line item 131: changed part number
7) Added color coding for substitutable line items

From Rev B to Rev C
1) Moved C40 from line item 1 to 11
2) Moved C37 from line item 2 to 8
3) Moved C111,C116 from line item 2 to 136
4) Moved C108 from line item 22 to 6
5) Moved C95 from line item 23 to 25
6) Moved L13 from line item 60 to 22
7) Moved C62,C65 from line item 18 to 14
8) Moved L17 from line item 64 to 57
9) Moved L15 from line item 62 to 61
10) Moved L21 from line item 67 to 61
11) Moved R17 from line item 83 to 81
12) Moved R26 from line item 89 to 81
13) Line item 2: added C188,C190
14) Line item 4: added C189
15) Line item 11: changed part number
16) Line item 14: part number now specified
17) Line item 17: part number now specified
18) Line item 18: deleted
19) Line item 23: changed part number
20) Line item 24: changed part number
21) Line item 28: changed part number
22) Line item 43: changed part number
23) Line item 57: part number now specified
24) Line item 58: part number now specified
25) Line item 59: part number now specified
26) Line item 60: deleted
27) Line item 61: part number now specified
28) Line item 62: deleted
29) Line item 64: deleted
30) Line item 65: part number now specified
31) Line item 67: deleted
32) Line item 78: added R77
33) Line item 81: changed part number
34) Line item 82: changed part number
35) Line item 83: deleted
36) Line item 86: changed part number
37) Line item 87: changed part number
38) Line item 89: deleted
39) Line item 94: changed part number
40) Line item 95: part number now specified
41) Line item 98: changed part number
42) Line item 99: changed part number
43) Line item 114: added U29
44) Line item 116: changed part number
45) Line item 137: added Q8
46) Line item 138: added R75
47) Line item 139: added R76
48) Line item 140: added R78,R79
49) Line item 141: 'WirelessPrinter_RevC_Gerbers03102010.zip
50) Line item 142: 'WirelessPrinter_PickNPlace_RevC.txt

From Rev C to Rev D
1) Line item 86: changed part number
2) Moved R19 from line item 85 to 83
3) Moved R17 from line item 81 to 89
4) Line item 137: changed part number
5) Moved R73 from line item 81 to 143
6) Moved R74 from line item 81 to 144
7) Line item 145: U30 added
8) Line item 146: U31 added (DNI)
9) Line item 141: changed part number
10) Line item 142: changed part number (U5,U16 pads fixed. R73,R74,C8 moved. U30,U31 added)