

Bill-of-Material
Outsite Networks Inc. - All Points Beacon 4 (APB4)

Assembly:
Version: R202 Generated: May 15, 2015

*** This BOM is RoHS compliant ***

Items changed from previous revision (R201)

NOTE: Packaging specification fields (e.g. reel, tube, bulk pack ...) have been replaced by '-' in Mfg Part Number

ITEM	QTY	Ref-Des	NEOVENTUS P/N	VALUE	DESCRIPTION	PACKAGE	MANUFACTURER 1	MFG#1 PART NUMBER	MANUFACTURER 2	MFG#2 PART NUMBER
1	1	R5	1112-0002	1.00K	RES, 0402, 1%, 1/16W, 1.00K	402	PANASONIC	ERJ-2RKF1001	ROHM	MCR01--F1001
2	2	R2,R10	1112-0005	2.21K	RES, 0402, 1%, 1/16W, 2.21K	402	PANASONIC	ERJ-2RKF2211	ROHM	MCR01--F2211
3	1	R1	1112-0067	56.2K	RES, 0402, 1%, 1/16W, 56.2K	402	PANASONIC	ERJ-2RKF5622	ROHM	MCR01--F5622
4	5	R6,R12,R13,R14,R15	1113-0001	0	JUMPER	402	PANASONIC	ERJ-2SG0800	ROHM	MCR01--000
5	2	C1,C2	2104-0002	220PF	CAP, CERAMIC, NPO, 0402, 220pf, 5%, 50V	402	MURATA	GRM1555C1H221JA01	TDK	C1005C0G1H221J050BA
6	2	C4,C6	2104-0011	15PF	CAP, CERAMIC, NPO, 0402, 15pf, 5%, 50V	402	AVX	04025A150JAT-A	MURATA	GRM1555C1H150J01
7	6	C14,C15,C16,C17,C18,C19	2134-0011	0.1UF	CAP, CERAMIC, X7R, 0402, 0.1uF, 10%, 16V	402	MURATA	GRM155R71C104KAB8	TDK	C1005X7R1C104K
8	2	C7,C8	2164-0008	1.0UF	CAP, CERAMIC, X5R, 0402, 1.0uF, 10%, 16V	402	TDK	C1005X5R1C105K	TAIYO YUDEN	EMK105B1105KV-F
9	2	C11,C21	2167-0006	10UF	CAP, CERAMIC, X5R, 0603, 10uF, 20%, 6.3V	603	TAIYO YUDEN	JMK107B106MAA	AVX	0603G0106MAT-A
10	1	F81	3101-0002	0.25A BEAD	FERRITE BEAD, 0402, 0.25A, 1000 OHM	402	MURATA	BLM15SH1025N1D		
11	1	T1	3420-0002	2450BM15A00002	TRANSFORMER, BALLUN, 2400-2500MHz, BAL IN/UNBAL OUT	805	JOHANSON TECHNOLOGIES	2450BM15A00002		
12	1	ANT1	3900-0001	2450AT42A100	ANTENNA, 2400 - 2500 Mhz, -1 dBi typ. (XZ-V) GAIN, 9.5 dB R-LOSS	SM	JOHANSON TECHNOLOGIES	2450AT42A100		
13	1	F2	4142-0012	32.000MHZ	XTAL, 32.000 MHz, 10ppm, 10pf, -40 to +85C, 2.0K1 6MM, No Pb	2.0x1.5MM	EPSON	FA-128 32.000MHZ0K-K		
14	1	U1	4421-0001	CC2541	IC, WIRELESS BLUETOOTH LOW ENERGY, 8051 up, 256KB FLASH, 8MB RAM	QFN41	TI	CC2541F256RHAT		
15	0	-	5120-0003	GREEN	LED, GREEN, SM, 0805	805	CML	7012X5		
16	1	Q1	5410-0006	FDV301N	TRANSISTOR, N-CHAN FET, 25V, 220mA	SOT-23	FAIRCHILD SEMICONDUCTOR	FDV301N		
17	1	Q2	5411-0009	DMP2100J	TRANSISTOR, P-CHAN FET, 20V, 1.4A, 0.075 RDS	SOT-23	DIODES INC	DMP2100J-7		
18	1	J2	6512-0004	SOCKET, BATT, 2 AA	SOCKET, BATTERY HOLDER, 2 AA, IN SERIES, NICKEL, TH	TH	KEYSTONE ELECTRONICS	2462		
19	1	-	-	PCB	2-Layer, RoHS, Beacon 4 R02					
20	1	F1	4140-0006	32.768KHZ	XTAL, 32.768KHZ, 20PPM, 12.5pf, -40-85C, 3.2X1.5MM, No Pb	3.2x1.5MM	NDK	NX32155A-32.768K-STD-MUA-8		
21	2	C9,C10	2104-0016	18PF	CAP, CERAMIC, NPO, 0402, 18pf, 5%, 50V	402	MURATA	GRM1555C1H180J01	AVX	04025A180JAT-A

Note:

1. The following reference designators are NOT INSERTED

1	R9	1112-0003	10.0K	RES, 0402, 1%, 1/16W, 10.0K	402	PANASONIC	ERJ-2RKF1002	ROHM	MCR01--F1002
2	R3,R4	1113-0005	2.21K	RES, 0402, 1%, 1/16W, 2.21K	402	PANASONIC	ERJ-2RKF2211	ROHM	MCR01--F2211
2	R7,R8	1112-0098	174	RES, 0402, 1%, 1/16W, 174, THICK FILM	402	VISHAY	CRCW0402174RFR	PANASONIC	ERJ-50ZF1740
1	R11	1113-0001	0	JUMPER	402	PANASONIC	ERJ-2GJ0R0D	ROHM	MCR01--000
2	C3,C5	2104-0011	15PF	CAP, CERAMIC, NPO, 0402, 15pf, 5%, 50V	402	AVX	04025A150JAT-A	MURATA	GRM1555C1H150J01
0	-	2104-0016	18PF	CAP, CERAMIC, NPO, 0402, 18pf, 5%, 50V	402	MURATA	GRM1555C1H180J01	AVX	04025A180JAT-A
2	C12,C13	2134-0011	0.1UF	CAP, CERAMIC, X7R, 0402, 0.1uF, 10%, 16V	402	MURATA	GRM155R71C104KAB8	TDK	C1005X7R1C104K
2	C22,C23	2165-0004	2.2UF	CAP, CERAMIC, X5R, 0603, 2.2uF, 20%, 6.3V	402	TAIYO YUDEN	JMK107B1225MV	TDK	C1005X5R0J225M050BC
1	C20	2167-0006	10UF	CAP, CERAMIC, X5R, 0603, 10uF, 20%, 6.3V	603	TAIYO YUDEN	JMK107B106MAA	AVX	0603G0106MAT-A
1	L1	3153-0004	2.2UH	INDUCTOR, 2.2uH, 800mA, 25%, SM, 0805, RoHS	805	MURATA	LQM21PN2R2NMGCD		
1	U2	4120-0032	TPS62730	IC, SWITCH REG, BUCK, 3MHz, 2.1V, 100mA	SON6	TI	TPS62730RNT		
0	-	4140-0006	32.768KHZ	XTAL, 32.768KHZ, 20PPM, 12.5pf, -40-85C, 3.2X1.5MM, No Pb	3.2x1.5MM	NDK	NX32155A-32.768K-STD-MUA-8		
1	D1	5103-0008	SMA29V1	DIODE, ZENER, 9.1V, +/-5%, 1W, SMA	SMA	MICRO COMMERCIAL	SMA29V1-TP		
2	LD1,LD2	5120-0003	GREEN	LED, GREEN, SM, 0805	805	CML	7012X5		
1	J1	6101-0032	VERT MALE, SK2	CONN, SM, SK2, 0.05IN, VERT, MALE, POST HIGHT=0.120", FLSH GOLD	SM	SAMTEC	FTS-105-01-F-DV-P		
8	MP1,MP2,MP3,MP4,MP5,MP6,MP7,MP8	9996-0001	SM 1.0MM	NOZ POINT, SM, 1.0mm (39 mil) SQUARE PAD	SM				
4	FID1,FID2,FID3,FID4	9997-0001	FID 1.05MM	FIDUCIAL, SM, 1.05mm PAD, 1.8mm MASK	SM				
8	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8	9998-0003	SM 1.0MM	TEST POINT, SM, 1.0mm (39 mil) PAD	SM				
4	MT1,MT2,MT3,MT4	9999-0021	3.175MM	MOUNT HOLE, NON-PLATED, 3.175mm (125mil) HOLE	TH				