

1/18/2011, FINAL						Cost				
Description	Part Number	Ref Des	Size	Qty	Source	100 pc		1000pc	Other	Ext.
Costs are not current										
Shunt, jumper, zero ohm resistor	RMCF1/40R		1210	0	Stackpole/Digi			0.016	at 4000	0.00
header, jumper, 100 mil (there is FCI-Berg PN for this too.)	TSW-102-7-T-S	JP1		1	Samtec					
header, jumper, 100 mil (alt.)	22-03-2021	JP1			Molex					
Shunt, jumper, 100 mil	71363-102LF	X4		1	FCI					
SMA connector (ANT)	142-0711-821	X2,X3		0	Johanson			2.770		
Connector, 30 pos.	TSW-115-09-F-D-RA	X1		1	Samtec			1.120	at 834	#REF!
					Samtec			0.954	at 1667	0.95
IC, EEPROM, 8Kb, 10ms, 2.7V	AT25010AY6-10YH-1.8	U5	8-TSSOP	0	Atmel	0.45		0.374		0.00
IC, dual 2-input OR (alternate)	SN74AUP2G32DCK (note1)	U4	SC-70/6		TI					
IC, dual 2-input OR	NC7WP32K8X (note1)	U4	mo-187	1	Fairchild			0.186	at 3000	0.19
IC, RF Transceiver	AT86RF231-ZU	U3	MLF-32	1	Atmel	2.91		2.860	at 5000	2.91
IC, Dual inverter (alternate)	SN74AUP2G04DCK (note1)	U2,U6	SC-70/6		TI			0.168		
IC, Dual inverter	NC7WV04P6X (note1)	U2,U6	SC-70/6	2	Fairchild			0.129		0.26
IC, RF switch	AS222-92	U1	SC-70/6	1	SkyWorks	0.44				0.44
Resistor, 0 ohm, 0402 or 0603		R3	0603	0		0.015				0.00
Resistor, 0 ohm, smd	ERJ-3GEY0R00V	R10,R12	0603	2		0.015				0.03
Resistor, 470 ohm, smd	ERJ-2GEJ471X	R8	0402a	1	Panasonic/Digi			0.017		0.02
Resistor, 2.2k ohm, smd	ERJ-2RKF2201X	R5,R6	0402a	2	Panasonic/Digi			0.006		0.01
Resistor, 1.0M, 1/16W 1%	ERJ-2RKF1004X	R1,R2,R7	0402a	3	Panasonic/Digi			0.021		0.06
Crystal, 16MHz, 10 ppm, -40 to 85C (use this)	ABM9-16.000MHZ-10-D-1U	Q1	4x2_5	1	Abracon/Digi			1.148		1.15
Inductor, Ferrite, 220ohm@100MHz	74279263	L1	0603H0.8	1	Wuerth			0.054		0.05
Polyfuse	miniSMDC020	F1	1812	1	Raychem			0.279		0.28
Zener, 3.9V, 5%, 1.25W	BZG05C3V9	D1	DO-214ac	1	Vishay			0.100		0.10
Capacitor, 12pF, 5%	GRM1555C1H120JZ01D	C35	0402a	1	Murata/Mouser			0.004		0.00
Capacitor, 10pF, 5%	GRM1555C1H100JZ01D	C34	0402a	1	Murata/Mouser			0.003		0.00
Capacitor, 1uF, 10V, 20%,	GRM18R61A105MA61D	C28,29,32,33	0603H0.8	4	Murata/Mouser			0.017		0.07

Capacitor, 1uF, 10V, 20%, Alt.	C0603C105M8PACTU	C28,29,32,3 3	0603H0.8	0	Kemet/Mouser			0.050		0.00
Capacitor, 1uF, 10V, 20%, Alt.	C1608X5R1A105M	C28,29,32,3 3	0603H0.8	0	TDK/Mouser			0.015		0.00
Capacitor, 1uF, 10V, 20%, Alt.	VJ0603V105MXQCW1BC	C28,29,32,3 3	0603H0.8	0	Vishay/Mouser			0.025		0.00
Capacitor, 0.1uF	GRM155R61A104KA01D	C25,30,31,3 7	0402a	4	Murata/Mouser			0.006		0.02
Capacitor, 0.55pF, 25V, COG	ECD-G0ER559	C15,C22	0402a	2	Pana/Digi			0.101		0.20
Capacitor, 22pF, 5%, 16V, COG	C0402C220J4GACTU	C11,12,26,2 7,38,39	0402a	0	Kemet/Mouser			0.010		0.00
Capacitor, 22pF, 5%, 50V, COG	GRM1555C1H220JZ01D	C11,12,26,2 7,38,39	0402a	6	Murata/Mouser			0.007		0.04
Capacitor, 22pF, 5%, 50V, COG	VJ0402A220JXACW1BC	C11,12,26,2 7,38,39	0402a	0	Vishay/Mouser			0.013		0.00
Capacitor, 22pF, 5%, 50V, COG	C1005C0G1H220J	C11,12,26,2 7,38,39	0402a	0	TDK/Mouser			0.011		0.00
Capacitor, Ant. Tuning Line, 8 pos.		C3-C10	0402a 0603H0.4	0						
Capacitor, Ant. Tuning Line		C13,14,16,1 7,20,21,23,2 4	0402a 0603H0.4	0						
Capacitor, Ant. Tuning Line		C16-C22	0402a 0603H0.4	0						
Capacitor, 2.2pF, +/-0.1pf,25V, COG	GRM1555C1H2R2BZ01D	C1,C2,C36	0402a	3	Murata/Mouser			0.007		0.02
Balun	2500BL14M050T	B1	0805-6	0	Johanson			0.406		0.00
Balun, 2.45GHz, 50/50, .9db ins	LDB212G4005C-001	B1	0805-6	1	Murata/Digi			0.189		0.19
Ceramic Antenna	2450AT45A100 or equivalent	A1,A2		2	Johanson			0.386		0.77
Printed Circuit, Bare Board				1						0.00
RF Shield, metal	? getting estimate			1	Laird			0.270		0.27
				46						#REF!
Printed Circuit, Assembly & Test				1						0.00
changed U5, 4/1/10										
changed X1, later 4/1/10\										#REF!
Assembly Note: The 30 position Right Angle connector, TSW-115-09-F-D-RA, should be placed with pins 29 & 30 in the 39 & 40 pin board location. This leaves board pin locations 1 through 10 vacant. 1/27/2011										