

P1000 BILL OF MATERIALS

Name	ID	Package	Reel Width	Qty	Layout Name
<i>MCU Section</i>					
Microcontroller	ATmega256RFR2-ZU	QFN-64	16mm	1	U4
Microcontroller	ATmega16U2-MU	QFN-32	12mm	1	U3
Crystal 16MHz	Tellurian 3960A 16MHz	4-SMD, No Lead (DFN, LCC)	8mm	2	X1,X3
Crystal 32.768kHz	Tellurian 3960B 32.768k	2-SMD	8mm	1	X2
<i>RF Section</i>					
Balun	2450BM15A0015E	0805	8mm	1	B1
Chip antenna	2450AT43A100E	SMT	10mm	1	Y1
<i>Power Section</i>					
3.3v regulator	TPS78233DDCT	SOT 23-5	8mm	1	U2
Li-Ion/Li-Poly charger	MCP73832	SOT 23-5	8mm	1	U1
Fuel Gauge	MAX17048G+	TDFN-8	8mm	1	U5
Ferrite chip	MPZ1608S221A	0603	8mm	1	L1
Varistor	CG0402MLC-05LG	0402	8mm	2	R2,R13
SPDT power switch	AYZ0102AGRLC	SMT	16mm	1	S1
USB micro B jack	UB-MC5BR3-SD204-4S-1	SMT right-angle, horizontal	16mm	1	USB-JACK
Single load switch	SIP32431DNP3-T1GE4TR-ND	TDFN4	8mm	2	U6,U7
JST SFH male battery jack	SM02B-SFHRS-TF(LF)(SN)	SMT right-angle	12mm	1	JST
Schottky diode	CDBU0520	0603	8mm	1	D3
MOSFET P-Channel	SI2305CDS	SOT 23-3	8mm	1	Q1
<i>Miscellaneous</i>					
0 ohm resistor	ERJ-2GE0R00X	0402	8mm	1	R24
22 ohm resistor	ERJ-2GEJ220X	0402	8mm	2	R9,R10
470 ohm resistor	ERJ-2GEJ471X	0402	8mm	6	R3,R6,R11,R12,R14,R18
1k ohm resistor	ERJ-2GEJ102X	0402	8mm	4	R7,R8,R15,R17,
2k ohm resistor	ERJ-2GEJ202X	0402	8mm	5	R1,R4,R16,R22,R23
100k ohm resistor	ERJ-2GEJ104X	0402	8mm	3	R5,R19,R20
4.7nH inductor	LQG15HS4N7S02D	0402	8mm	1	L2
1.0 pf capacitor	C1005C0G1H010C	0402	8mm	2	C9,C23
10 pf capacitor	C1005C0G1H100D050BA	0402	8mm	4	C12,C13,C16,C17
12 pf capacitor	C1005C0G1H120J	0402	8mm	2	C14,C15
0.1 uf capacitor	C1005X5R1A104K	0402	8mm	2	C3,C19
1.0 uf capacitor	C1005X5R0J105M	0402	8mm	4	C6,C7,C8,C18
2.2 uf capacitor	C1005X5R0J225M	0402	8mm	2	C2,C11
4.7 uf capacitor	C1005X5R0J475K	0402	8mm	2	C4,C5
LED green	HSMG-C190	0603	8mm	1	D1
LED yellow	HSMY-C190	0603	8mm	1	D2
LED RGB	CLVBA-FKA-CAEDH8BBB7A363	4-PLCC	8mm	1	U8
Female headers 2mm - low profile	BCSS-216-S-02-GT-LF	Through-hole		2	JP-L,JP-R