	Sneeti						
REF	VALUE	DESC	PRICE/1000	ASSY_STATUS	SUPLIER_1	SUPPLIER_2	
B1	3.3V	HOLDER BATT CR2032	0.230	Y	Mouser 712-BAT-HLD-001	Digikey BAT-HLD-001-ND	
C1	22 pF	CAP CER SMD 0402 22 5 NPO	0.040	Υ	Mouser 581-04023U220JAT2A		
C2	22 pF	CAP CER SMD 0402 22 5 NPO	0.040	Υ	Mouser 581-04023U220JAT2A		
C3	12 pF	CAP CER SMD 0603 12 5 NPO	0.010	Υ	Mouser 81-GRM39C120J50	Digikey 490-1405-1-ND	
C4	12 pF	CAP CER SMD 0603 12 5 NPO	0.010	Υ	Mouser 81-GRM39C120J50	Digikey 490-1405-1-ND	
C5	12 pF	CAP CER SMD 0603 12 5 NPO	0.010	Ϋ́	Mouser 81-GRM39C120J50	Digikey 490-1405-1-ND	
C6	12 pF	CAP CER SMD 0603 12 5 NPO	0.010	Ϋ́	Mouser 81-GRM39C120J50	Digikey 490-1405-1-ND	
C8	.01 uF	CAP CER SMD .01 10 X7R 16V	0.015	Ϋ́	Mouser 81-GRM18R71C103KA01D	Digikey 490-1525-1-ND	
C9	4.7 uF	CAP CER SMD 4.7uF 10% X7R 25V	0.110	Ϋ́	Mouser 81-GRM31CR71E475KA88	Digikey 490-1809-1-ND	
C10	4.7 uF	CAP CER SMD 4.7uF 10% X7R 25V	0.110	Ϋ́	Mouser 81-GRM31CR71E475KA88	Digikey 490-1809-1-ND	
				Ϋ́		Digikey 450-1005-1-ND	
C11	22 pF	CAR CER SMD 0402 22 5 NPO	0.040	Ϋ́Υ	Mouser 581-04023U220JAT2A	Di-il 400 0000 4 ND	
C12	100 uF	CAP LYTIC 100u 20% 6.3V	0.210		Mouser 647-UWX0J101MCL1	Digikey 493-2088-1-ND	
D1	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D2	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D3	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D4	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D5	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D6	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D7	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D8	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D9	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D10	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D11	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D12	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D12	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D13	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D14 D15	RED			Ϋ́			
D15	RED	DIODE LED RED 1206	0.050	Ϋ́Υ	Mouser 604-APTL3216SURCK Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
		DIODE LED RED 1206	0.050			Digi 754-1165-1-ND	
D17	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D18	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D19	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D20	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D21	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D22	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D23	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D24	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D25	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D26	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D27	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D28	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D29	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D30	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D31	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D32	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D33	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D34	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D35	RED	DIODE LED RED 1206	0.050	Ϋ́	Mouser 604-APTL3216SURCK		
				Ϋ́Υ		Digi 754-1165-1-ND	
D36	RED	DIODE LED RED 1206	0.050		Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D37	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D38	RED	DIODE LED RED 1206	0.050	Y	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D39	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D40	RED	DIODE LED RED 1206	0.050	Υ	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND	
D45	S01575	DIODE SIG SMD 75V 1206	0.040	Y	Mouser 652-CD1206-S01575	Digi CD1206-S01575CT-ND	
R1	120	RES CER SMD 0603 120 5 1/10	0.003	Y	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R2	120	RES CER SMD 0603 120 5 1/10	0.003	Y	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R3	120	RES CER SMD 0603 120 5 1/10	0.003	Υ	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R4	120	RES CER SMD 0603 120 5 1/10	0.003	Y	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R5	120	RES CER SMD 0603 120 5 1/10	0.003	Ϋ́	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R6	10K	RES CER SMD 0603 10K 5 1/10	0.003	Ϋ́	Mouser 667-ERJ-3GEYJ103V	Digikey P10KGCT-ND	
R10	120	RES CER SMD 0603 120 5 1/10	0.003	Ý	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND	
R12	0	RES CER SMD 0603 0	0.003	Ϋ́	Mouser 667-ERJ-3GEY0R00V	Digikey P0.0GCT-ND	
R12	10K	RES CER SMD 0603 0 RES CER SMD 0603 10K 5 1/10	0.003	Ϋ́Υ	Mouser 667-ERJ-3GEYJ103V	Digikey P10KGCT-ND	
R14	0	RES CER SMD 0603 10K 5 1/10	0.003	Ϋ́Υ	Mouser 667-ERJ-3GEY0R00V	Digikey P0.0GCT-ND	
IX 14	U	NEG CER SIVID 0003 0	0.003	ī	MODEL OUT-FLO-SOETUROUV	Digitey FU.UGCT-ND	

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Sheet1

S1 U1 Y1 Y2	RESET ATMEGA128RFA1 16.000 MHz 32.768 KHz	SW PB SMD N.O. IC MICROCONT RF 2450 XTAL 16 MHZ XTAL RTC 32768 TOTAL ACTIVE PART COST	0.250 5.280 0.500 0.800 9.7322	Y Y Y Y (500 pc. Estimate)	Mouser 667-EVQQ2P02W Mouser 556-ATMEGA128RFA1-ZU Mouser 815-ABMM-16-B2-T Mouser 520-ECS327-12.5-17X-TR	Digikey P12943SCT-ND Digi ATMEGA128RFA1-ZU-ND DigiKey 535-9155-1-ND DigiKey XC1195CT-ND
NON-ITEMIZ	ED DADTO					
NON-ITEMIZ	BATTERY, CR-2032	2 BATTERY, CR-2032	0.280	Υ		Diigikey P189-ND
	BAOARD, PC, THO		3.000	. Y	Engineer's 500 pc. Estamate.	
		TOTAL NON-ITEMIZED COST	3.280			
	ACE/UNUSED PARTS					
C13	4.7 uF	CAP CER SMD 4.7u 10% X7R 25V	0.110	DO NOT PLACE	Mouser 81-GRM31CR71E475KA88	Digikey 490-1809-1-ND
C14	.01 uF	CAP CER SMD .01 10 X7R 16V	0.015	DO NOT PLACE	Mouser 81-GRM18R71C103KA01D	Digikey 490-1525-1-ND
C15	10 uF	CAP LYTIC SMD 10uF 20% 16V	0.100	DO NOT PLACE	Mouser 647-UWF1C100MCL1GB	
D41	RED	DIODE LED RED 1206	0.050	DO NOT PLACE	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND
D42	RED	DIODE LED RED 1206	0.050	DO NOT PLACE	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND
D43	RED	DIODE LED RED 1206	0.050	DO NOT PLACE	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND
D44	RED	DIODE LED RED 1206	0.050	DO NOT PLACE	Mouser 604-APTL3216SURCK	Digi 754-1165-1-ND
F1	.5 A	FUSE POLY .5A 15V	0.210	DO NOT PLACE	Mouser 576-1206L050/15YR	Digikey F3733CT-ND
J1	POWER	06-WAY SIL VERT SOCKET	0.480	DO NOT PLACE	Mouser 855-M20-7820646	DigiKey 952-1809-ND
J2	ANALOG	06-WAY SIL VERT SOCKET	0.480	DO NOT PLACE	Mouser 855-M20-7820646	DigiKey 952-1809-ND
J3	DIGITAL_0	SOCKET STRP .1 1X8	0.550	DO NOT PLACE	Mouser 855-M20-7820842	Digikey 952-1823-ND
J4	DIGITAL_1	SOCKET STRP .1 1X8	0.550	DO NOT PLACE	Mouser 855-M20-7820842	Digikey 952-1823-ND
P1	USB_2_MALE	CONN USB PCB M	0.000	DO NOT PLACE		
P2	AVR-ISP-6A	CONN SPI AVR	0.480	DO NOT PLACE	Mouser 649-75869-131LF	Digikey 609-2845-ND
R7	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R8	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R9	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R11	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R15	0	RES CER SMD 0603 0	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEY0R00V	Digikey P0.0GCT-ND
R16	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R17	5V	VRSTR ESD 0603 LO-CAP	0.090	DO NOT PLACE	Mouser 652-CG0603MLC-05E	Digi CG0603MLC-05ECT-ND
R18	5V	VRSTR ESD 0603 LO-CAP	0.090	DO NOT PLACE	Mouser 652-CG0603MLC-05E	Digi CG0603MLC-05ECT-ND
R19	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R20	1K	RES CER SMD 0603 1K 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ102V	DigiKey P1.0KGCT-ND
R21	0	RES CER SMD 0603 0	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEY0R00V	Digikey P0.0GCT-ND
R22	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R23	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R24	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R25	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R26	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
R27	120	RES CER SMD 0603 120 5 1/10	0.003	DO NOT PLACE	Mouser 667-ERJ-3GEYJ121V	DigiKey P120GCT-ND
S2	PF1	SW PB SMD N.O.	0.250	DO NOT PLACE	Mouser 667-EVQQ2P02W	Digikey P12943SCT-ND
S3	PF2	SW PB SMD N.O.	0.250	DO NOT PLACE	Mouser 667-EVQQ2P02W	
TP1	USB D-	TEST POINT	0.000	DO NOT PLACE	Wousel 667-EVQQZF02VV	Digikey P12943SCT-ND
TP2	USB D+	TEST POINT	0.000	DO NOT PLACE		
U2	LP2985-33	IC REG 3.3V LDO SOT5	0.360	DO NOT PLACE	Mouser 595-LP2985-33DBVR	Digi 296-18476-1-ND
Z1	ANTENNA	ANTENNA PRINTED	0.000	DO NOT PLACE	Wodser 393-LF 2903-33DBVK	Digi 290-10470-1-ND
Z1 Z2	100 OHM BAL	LINE TRANS 100 OHM	0.000	DO NOT PLACE		
	100 UTIVI DAL	TOTAL DO NOT PLACE/UNUSED**	4.254	DO NOT PLACE		
		TOTAL DO NOT FLACE/GNUSED	7.204			
		GRAND TOTAL DEFAULT CONFIG.	13.012			
		BACKWARD COMPAT CONFIG	17.266	**NOTE: Not all re	quired compatibility parts have been desi	gned in at this time.