

03/28/14	ISSUE P1	PRINTED 032814			ISSUE P1			ISSUE P1			ISSUE P1	
REF.	VALUE	QTY.	DESCRIPTION	MFR	MFR_PN	PRICE EA @100	EXT.	ASSY_STATUS	VENDOR 1	VENDOR 2	NOTES	
B1,B2	BATTERY	2	HOLDER BATT 2032	LINX	BAT-HLD-001-THM	0.27	0.54	Y	Mous 712-BAT-HLD-001-THM	Digi BAT-HLD-001-THM-ND	Thru Hole	
C2,C9,C11,C14,C15,C16	1 uF	6	CAP CER 0603 1uF 10% X7R	MURATA	GRM188R71E105KA12	0.061	0.366	Y	TTI GRM188R71E105KA12	Digi 490-5307-1-ND	25 Volt	
C3,C5,C7	4.7 uF	3	CAP CER 1206 4.7u 10% X7R	MURATA	GRM31CR71E475KA88L	0.11	0.33	Y	Mous 81-GRM31CR71E475KA88	Digi 490-1809-1-ND	25 Volt	
C4,C6	.01 uF	2	CAP CER 0603 .01 10% X7R	MURATA	GRM188R71C103KA01D	0.02	0.04	Y	Mous 81-GRM18R71C103KA01D	Digi 490-1525-1-ND	16 Volt	
C8,C17,C18,C19,C20	.1 uF	5	CAP CER 0603 .1 10% X7R	MURATA	GRM188R71H104KA93	0.07	0.35	Y	Mous 81-GRM188R71H104KA93	Digi 490-1519-1-ND	50 Volt	
C12,C13	18 pF	2	CAP CER 0603 18 5% NPO	MURATA	GRM1885C1H180JA01D	0.01	0.02	Y	Mous 81-GRM39C180J50	Digi 490-1409-1-ND	25 Volt	
D2,D4,D5	MBR0530	3	DIODE SCHTKY 20V	ON SEMI	MBR0530T1G	0.06	0.18	Y	NWK 83H7280	Mous 863-MBR0530T1G		
D6	S01575	1	DIODE SIG 75V SMD1206	BOURNS	CD1206-S01575	0.04	0.04	Y	Mous 652-CD1206-S01575	Digi CD1206-S01575CT-ND		
DS1	LC DISPLAY	1	LCD GRPHIC 102x64 WHT	ELECT ASMBYS	DOGS102W-6	6.73	6.73	Y	Mous 790-EADOGS102W-6			
DS2	"PARTY"	1	DIODE LED RED 1206 REV	KINGBRIGHT	APTR3216SURCK	0.09	0.09	Y		Digi 754-1173-1-ND		
F1	.5 A	1	FUSE POLY 1206 .5A 15V	Littelfuse	1206L050/15YR	0.21	0.21	Y	Mous 576-1206L050/15YR	Digi F3733CT-ND		
J6	USB_IN	1	CONN USB MICRO B THM	TE CONN / AMP	2040002-1	1.29	1.29	Y	Mous 604-APTR3216SURCK	Digi A108263CT-ND	Thru hole	
R1	1K	1	RES CER 0603 1K 5% 1/10	PANASONIC	ERJ3GEYJ102V	0.006	0.01	Y	Mous 667-ERJ-3GEYJ102V	Digi P1.0KGCT-ND		
R2,R3	5V	2	VRSTR ESD 0603 LO-CAP	BOURNS	CG0603MLC-05E	0.09	0.18	Y	Mous 652-CG0603MLC-05E	Digi CG0603MLC-05ECT-ND		
R4,R5	22	2	RES CER 0603 22 5% 1/10	PANASONIC	ERJ-3GEYJ220V	0.003	0.005	Y	Mous 667-ERJ-3GEYJ220V	Digi P220GCT-ND		
R6,R16	120	2	RES CER 0603 120 5% 1/10	PANASONIC	ERJ-3GEYJ121V	0.003	0.005	Y	Mous 667-ERJ-3GEYJ121V	Digi P120GCT-ND		
R7-R13	10K	7	RES CER 0603 10K 5% 1/10	PANASONIC	ERJ-3GEYJ103V	0.003	0.018	Y	Mous 667-ERJ-3GEYJ103V	Digi P10KGCT-ND		
R14	2.2K	1	RES CF AXIAL 2.2K 5% 1/8	STACKPOLE	CF18JT2K20	0.02	0.02	Y	Digi CF18JT2K20CT-ND			
S1,S2	RED	2	SW PB N.O. RED	TE CONN / AMP	1825910-7	0.08	0.16	Y		Digi 450-1804-ND	RED	
S3,S4,S5,S6,S7	BLACK	5	SW PB N.O. BLACK	TE CONN / AMP	FSM4JH	0.08	0.40	Y	Mous 506-FSM4JH	Digi 450-1650-ND	BLACK	
U1	ATMEGA32U4	1	IC MICROP AVR	ATMEL	ATMEGA32U4-AU	3.67	3.67	Y	NWK 68T2838	Digi 535-11697-1-ND		
U2	5V	1	IC VREG LDO 5V SOT23	TI	LP2985-50DBVR	0.23	0.23	Y	Mous 595-LP2985-50DBVR	Digi 296-20717-1-ND		
U3	3.3V	1	IC VREG LDO 3.3V SOT23	TI	LP2985-33DBVR	0.28	0.28	Y	Mous 595-LP2985-33DBVR	Digi 296-18476-1-ND		
U4	MC14050	1	IC LVL SHFTR HEX SOIC	ON SEMI	MC14050BDR2G	0.15	0.15	Y	Mous 863-MC14050BDR2G	Digi MC14050BDR2GOSCT-ND		
Y1	8.000 MHz	1	XTAL 8 MHZ SMT	ABRACON	ABC2-8.000MHZ-4-T	1.13	1.13	Y	Mous 815-ABMM-16-B2-T	Digi 535-9155-1-ND		
Z1,Z2	300	2	IND FE 300 OHM	TDK	MMZ1608-B-301C	0.02	0.04	Y	Mous 810-MMZ1608B301C	Digi 445-2165-1-ND		
						SUB-TOTAL	16.481					
NON-ITEMIZED												
B1, B2	CR2032	2	BATTERY LI COIN 2032	PANASONIC	CR2032	0.16	0.32	Y				
BOARD, PC	---	1	DOUBLE SIDE	***** ESTIMATED	COST *****	4.00	4.00	Y				
						PRODUCTION TOTAL	20.80					
ADD-ON KIT												
C1,C10	10 uF	2	CAP LYTIC RADIAL 10uF 20%	PANASONIC	ECEA1VKS100	0.06	0.12	DO NOT PLACE	Mous 667-ECE-A1VKS100	Digi P980-ND	35 Volt	
J1,J3	8 PIN	2	SOCKET STRP .1 1X8	HARWIN	M20-7820842	0.55	1.10	DO NOT PLACE	Mous 855-M20-7820842	Digi 952-1823-ND		
J2	6 PIN	1	SOCKET STRP .1 1X6	HARWIN	M20-7820646	0.48	0.48	DO NOT PLACE	Mous 855-M20-7820646	Digi 952-1809-ND		
J4	10PIN	1	SOCKET STRP .1 1X10	HARWIN	M20-7821042	1.10	1.10	DO NOT PLACE	Mous 855-M20-7821042	Digi 952-1846-ND		
J5	EXT_POWER	1	JACK 2MM TAPER PIN	CUI	PJ-102A	0.45	0.45	DO NOT PLACE	Digi CP-102A-ND	FUTURE PJ-102A	Suffix H OK	
						Add-on SUBTOTAL	3.25					
						WS88 BADGE TOTAL	24.06					