

BOM

#	RefDes	Quantity	Value	Name	Manufacturer
1	BH100	1	3 x AAA Batt Holder	753-00008 : Battery Holder (3 AAA)	COMF : BH431-2P
2	C100, C101, C102, C206, C401, C403, C501	7	4.7uF 6.3V	200-01049 : CAP-CER,4.7uF,X5R,6.3V,0402	TDK : C1005X5R0J475M050BC
3	C103, C207, C303, C801	4	22uF 10V	200-11541 : CAP-CER,22uF,10V,X5R,0603	Samsung : CL10A226MPCNUBE
4	C104, C201, C202, C203, C204, C205, C402, C404, C405, C502, C701, C702, C703, C704, C803, C804	16	0.1uF 16V	200-11203 : CAP-CER,0.1uF,X7R,16V,0402	Murata : GRM155R71C104KA88J
5	C301, C302, C304	3	1uF 16V	200-11044 : CAP-CER,1uF,10%,16V,X7R	TDK : C1608X7R1C105K080AC
6	C305, C306, C307	3	2.2uF 16V	213-01220 : CAP-CERM,2.2uF,16V,20%,0603	Taiyo Yuden : EMK107F225ZA-T
7	D101	1	Green	350-10003 : LED 0603, Green Clear	LiteOn : LTST-C191KGKT
8	D401	1	PHOTODIODE IR	501-10025 : IR Photodiode 1206	Everlight : PD15-21B/TR8
9	D402	1	IR EMITTER 940NM	350-10024 : IR EMITTER 940NM 50MA 120deg	Kingbright : APT1608F3C
10	D701, D702, D703, D704	4	WS2812B	350-28085 : WS2812B RGB LED	World Semi : WS2812B
11	D705, D706	2	Yellow	350-10002 : LED 0603, Yellow Clear	LiteOn : LTST-C191KSKT
12	D801, D803	2	SCHOTTKY 30V 30mA	501-10008 : Diode,Schottky,40V,30mA	ON Semi : RB751S40T1G
13	D802	1	Blue	350-10004 : LED 0603, Blue Clear	LiteOn : LTST-C190TBKT
14	HW301, HW302, HW303, HW304	4	FIX-MAD-5	713-00029 : Polyamide Spacer Len 5mm/latch	TME : FIX-MAD-5
15	HW306	1	Lanyard, nylon-loop end	700-20000 : Lanyard, BLUE, Dbl end, NY loop	
16	J101	1	Header 2.54mm 6way	452-11003 : CON-HDR,1x6,0.1",LowPf,Bot,SMT	GradCann : BB02-KR062-KAB-000000
17	J201, J402, J701, TP102, TP202, TP203, TP801	7	User Breakout Header	Unpopulated	Unpopulated
18	J202	1	MicroSD Socket	452-10029 : CON-MICRO SD,RA,SMT	Maxx : 105162-0001
19	J301	1	30pin ZIF FPC Sacket	452-10027 : 30pin ZIF FPC-TOP Connector	ARS TEC : FC-0105XX-S/X
20	J401	1	AV 3.5mm 4 pole TRRS	452-10019 : CON-JACK,TRRS,RA,3.5mm	CUI : SJ-43514-SMT-TR
21	PAD601, PAD602	2	Capacitive TouchPad A	Unpopulated : PCB TouchPad	
22	Q100	1	P-Channel 30V 4A	500-10036 : MOSFET P-CH 30V 4A DFN3x2-A	Alpha & Omega : AON4807
23	R101, R102, R202, R406	4	470R	172-04720 : Res,470,0402	Yageo : RC0402JR-07470RL
24	R103, R201, R701, R702, R801, R805, R806, R807, R808	9	10K	150-11022 : RES,10K,5%,0402	Panasonic : ERJ-2GEJ103X
25	R104, R401, R404, R405, R603, R604, R703, R704, R802	9	1K	173-10002 : RES,1K,5%,0402	Stackpole : RMCF0402JTIK00
26	R200, R402, R800	3	100R	172-16004 : RES,100,1%,0402	Yageo : RC0402FR-07100RL
27	R203, R204, R205, R803	4	3K9	150-11051 : Res,3.9k,0402	Yageo : RC0402JR-073K9L
28	R301, R606, R607	3	470K	172-16011 : RES,470K,1%,0402	Yageo : RC0402JR-07470
29	R403	1	49.9R	150-14702 : RES-SMT, 49.9 1%, 0603	Yageo : RC0603FR-0749R9L
30	R407, R408, R601, R602	4	240R	150-12023 : RES,240,5%,0402	Yageo : RC0402JR-07240RL
31	R804	1	Empty	Empty	
32	RN202, RN301	2	10K x4	179-10010 : RES-NTWK,10K,5%,1206	Yageo : YC164-JR-0710KL
33	S101	1	Pushbutton 7 mm tall	400-10015 : SWITCH TACTILE SPST 7mm TALL	XMS : TS-025-7.0H-1.6N
34	S601, S602	2	Push-Lever 3 position	452-10032 : Push-Lever Switch,3 position	XMS : TS-003
35	U100	1	LDO 3.3V 600mA	601-10338 : IC REG LDO 3.3V 0.6A SOT23-5	Diodes Inc : AP2112K-3.3TRG1
36	U101	1	ATTINY10-TSHR	604-10046 : ATtiny10 8BIT 1KB FLASH SOT23	Atmel : ATTINY10-TSHR
37	U201	1	P8X32A-Q44	P8X32A-Q44 : IC-P8X32A-Q44 (QFP)	Parallax : P8X32A-Q44
38	U202	1	512KBIT 1MHZ	602-10001 : IC SRL EEPROM 512K 2.7V	STMicro : M24512-RDW6TP
39	U301	1	OLED 128x64 0.96"	603-00031 : OLED 128x64 0.96" 12mmFPC-T Wh	EastRising : ER-OLED0.96-1.1W
40	U401	1	IR transceiver	502-14005 : IR transceiver IC	Vishay : VSOP38336
41	U501	1	Accelerometer	604-00067 : MMA7660FC Accelerometer	NXP : MMA7660FCR1
42	U801	1	ESP8266 WiFi Module	604-32420 : ESP-WROOM-02 WiFi ESP8266 Mod	Espressif : ESP-WROOM-02
43	Y201	1	CRYSTAL 5.000 MHZ	251-15000 : CRYSTAL 5.000 MHZ 18PF SMD	Abracon : ABL5-5.000MHZ-B4-T
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