

BILL OF MATERIAL (BOM)**RECEIVER:**

Component	Description	Manufacturer	Manuf. p/n	Qty.
Antenna	1/4-wave Antenna with RPSMA connection.	Linx Tech.	ANT-418-CW-QW or ANT-418-CW-RH	1
Antenna Connector	RPSMA Female Edge Multi-Mount	Linx Tech.	CONREVSMA006.062	
Battery Snap	9V battery Snap, 26 AWG, 6" leads	Eagle	123-6006	1
Cap, 22uF, Tantalum	C5,C7,C8,C9,C10; 10%, 16V, "B" Case	AVX	TAJB226K016R	5
Cap, 0.1uF, X7R	C1,C4,C6,C11,C15,C16,C17,C18,C24; 10%, 50V, 0805	Kemet	C0805C104K5RACTU	9
Cap, 2.2uF, Tantalum	C19,C21,10%, 16V, "A" case	Kemet	T491A225K016AS	2
Cap, 4.7uF, Tantalum	C2,C12,C20,C23; 10%, 16V, "B" Case	Kemet	T491B475K016AS	4
Cap, 100pF, NPO	C3; 5%, 50V, 0805	Panasonic	ECJ-2VC1H101J	1
Cap, .047uF, X7R	C13; 10%, 50V, 1206	Xicom	140-CC502B473K	1
Cap, .022uF, X7R	C14; 10%, 50V, 1206	Xicom	140-CC502B223K	1
LED (RED)	D2,D5,D4,D10, Channel LED, T1 package	Kingbright	L934IT	4
DIODE	D3,D6,D7,D8,D9,D11,D15,D16,D17,D18,D19	Vishay	LL4148	11
RECT	D1, Power LED, T1 package	MICROSEM1	1N4001MSCT	1
LED (GREEN)	D13,D14, Power LED, T1 package	Kingbright	L934GT	2
1206 RES 15	R43	Xicon	263-15	1
1206 RES 100	R29,R31	Xicon	263-100	2
1206 RES 470K 1%	R4,R11,R12,R13,R14,R26	Xicon	290-470K	4
1206 RES 47K	R1,R39	Xicon	263-47K	2
1206 RES 390K	R27	Xicon	263-390K	1
1206 RES 1K	R3,R5,R6,R15	Xicon	263-1K	4
1206 RES 2.2K	R35,R36	Xicon	263-2.2K	2
1206 RES 10K	R25,R40	Xicon	263-10K	1
1206 RES 100K, 1%	R24,R28,R38,R45	Xicon	290-100K	4
1206 RES 332K, 1%	R2	Xicon	290-332K	1
1206 RES 20K	R7,R8,R9,R10	Xicon	263-20K	4
1206 RES 1M	R30,R32,R33,R34,R37,R41,R42,R44	Xicon	263-1M	8
RES Array, 100K	RN1; 8TERM 4RES SMD (R20,R21,R22,R23)	CTS Corp.	744C083104JTR	1
RES Array, 47K	RN2; 8TERM 4RES SMD (R16,R17,R18,R19)	CTS Corp.	744C083473JCT	1
220nH Inductor	L1, 220nH Inductor, 0805	Panasonic	ELJ-NDR22JF	1

56nH Inductor	L2, 56nH Inductor, 0805	Bourns Inc.	CI201210-56NJ	1
IC	U1, 418.0 MHz Receiver	RF Monolithics	RX5002	1
IC	U2, DECODER, 20 PIN SOP	Holtek	HT614	1
IC	U3,NAND GATE, 14 PIN SOIC	Fairchild Semi.	CD4011BCM	1
IC	U4, Voltage Regulator, 8-SOP	Texas Instr.	TPS76550D	1
IC	U5, NAND W/SCHMITT INPUTS, 14 PIN SOIC	Fairchild Semi.	CD4093BCM	1
IC	U6, Voltage Regulator, SOT-23-5	Texas Instr.	TPS77030DBVT	1
IC	U7,U8; Flip Flop Dual, 14 Pin SOIC	Fairchild Semi.	CD4013BCM	2
Transistor	Q6 PNP, SOT-23	Fairchild Semi.	MMBT3906	1
Transistor	Q1,Q2,Q3,Q4,Q5, NPN, SOT-23	STM Transistors	MMBT3904	5
Transistor	Q7, NPN, SOT-223	STM Transistors	PZT3904	1
Header	3 pos. Rt. Angle header for keypad	Molex	22-28-8030	1
Vib Motor	Vibration motor	Jinlong Mach.	6SH-0608B	1
PCB	Receiver PCB bare board	Imagineering, Inc.	3001	1
Case	Enclosure	Hammond Manufacturing	1599BBKBAT	1
Keypad	Keypad/overlay assembly	Xymox Technologies, Inc.	14904	1
screw	#4 philips head, 1/4" long screw	McMaster-Carr	90190A106	4
Legend	Nameplate / FCC legend	Brady Labels	THT-6-423	1

SENSOR:

Component	Description	Manufacture	Manuf. P/N	Qty.
Antenna	ANT1, LP Series, 1/4-wave whip Ant.	Linx Tech.	ANT-418-PW-LP	1
Battery Snap	9V battery Snap, 26 AWG, 6" leads	Eagle	123-6006	1
Cap, 0.1uF, X7R	C1,C3,C5,C9,C10,C11,C12; 10%, 50V, 0805	Kemet	C0805C104K5RACTU	7
Cap, 22uF, Tantalum	C2; 10%, 16V, "B" Case	AVX	TAJB226K016R	1
Cap, .01uF, X7R	C15, 10%, 50V, 0805	Kemet	C0805C103K5RACTU	1
Cap, 4.7 uF, Tantalum	C16, C17; 10%, 16V, "B" Case	Kemet	T491B475K016AS	2
Cap, 1.0 uF, Tantalum	C14; 10%, 16V, "A" Case	Kemet	T491A105K016AS	1
Cap, 10uF, Tantalum	C4,C7,C8,C13; 10%, 16V, "B" Case	Kemet	T491B106K016AS	4
Cap, 100pF, NPO	C6,C18,C19; 5%, 50V, 0805	Panasonic	ECJ-2VC1H101J	3
RECT	D7	MICROSEM1	1N4001MSCT	1
DIODE	D2,D3,D4,D6	Vishay	LL4148	4

Transistor	Q1, NPN, SOT-23	Fairchild Semi.	MMBT3904	1
1206 RES 1K	R27	Panasonic	ERJ-8GEYJ102V	1
1206 RES 2.2K	R15	Panasonic	ERJ-8GEYJ222V	1
1206 RES 28K	R28	Panasonic	ERJ-8GEYJ283V	1
1206 RES 10K	R3, R9, R11	Panasonic	ERJ-8GEYJ103V	3
1206 RES 47K	R19, R25, R30, R31	Panasonic	ERJ-8GEYJ473V	4
1206 RES 1M	R2, R10, R12, R13, R16, R17, R22, R29	Panasonic	ERJ-8GEYJ105V	8
1206 RES 4.7M	R24	Panasonic	ERJ-8GEYJ476V	1
1206 RES 100K	R5	Panasonic	ERJ-8GEYJ104V	1
1206 RES 180K	R14	Panasonic	ERJ-8GEYJ184V	1
1206 RES 200K	R8	Panasonic	ERJ-8GEYJ204V	1
1206 RES 680K	R20	Panasonic	ERJ-8GEYJ684V	1
1206 RES 470K, 1%	R6,R18	Panasonic	ERJ-8GEYJ474V	1
1206 RES 270K	R23	Panasonic	ERJ-8GEYJ274V	1
1206 RES 39K	R21	Panasonic	ERJ-8GEYJ393V	1
DIP SWITCH	SW1, SPST 8 POS. DIP	CTS Corp.	206-8RAST	1
TO-5 MOUNT	MOUNT FOR U2	BIVAR	505-120	1
LED (yellow)	D1, Low Battery LED, T1 3/4 package	AGILENT Tech.	HLMP-3401	1
LED (red)	D5, Detector LED, T1 3/4 package	AGILENT Tech.	HLMP-3301	1
INDUCTOR	L1, 220nH, 0805	Panasonic	ELJ-NDR22JF	1
INDUCTOR	L2, 56nH, 0805	Bourns Inc.	C1201210-56NJ	1
INDUCTOR	L3, 120 IMP. DCR, 1206 package	Fair-Rite	2512061217YO	1
IC	U1, 418Mhz Transmitter	RF Monolithics	TX5002	1
PIR Detector	U2 Pyroelectric IR Detector	Murata	IRA-E710STO	1
IC	U3, ENCODER, 20 pin SOP	Holtek	HT600	1
IC	U4, DUAL OP AMP, 8 pin SO8	ST Micro.	TS942AID	1
IC	U5 DUAL COMPARATOR, 8 pin SOIC	Linear Tech.	LTC1441IS8	1
IC	U6, Voltage Regulator, SOT- 23-5	TEXAS Instr.	TPS77030DBVT	1
IC	U7, Voltage Regulator, 8- SOP	TEXAS Instr.	TPS76550D	1
PCB	Sensor PCB bare board	Imagineering, Inc.	3002	1
PIR Lens	Fresnel lens	Fresnel Technologies	AA 1.2 GI V1	1
Case	Enclosure, S-series	Serpac Elec. Encl.	231	1
Gasket	Gasket for enclosure	Serpac Elec. Encl.	PS-13	1
Washer	Nylon flat washer	Micro Plastics, Inc.	17W02502	4
Power Switch	SW2, SPST, TOGGLE, Panel Mounted	Eswitch	EG2358-ND	1
Switch Seal	Black boot switch seal	Alcoswitch	506-B14400	1

Bracket	Mounting Bracket	Engineered Metal Prod.	2015	1
Rivet	Pop-rivet, 1/8" dia. X 1/4" grip	McMaster-Carr	97519A025	2
Rivet backer	washer, 1/8" O.D	McMaster-Carr	90183A212	2
Screw	#4 Philips pan head, 3/8" long screw	McMaster-Carr	90190A108	8
legend	Nameplate / FCC legend	Brady Labels	THT-6-423	1