Category	Item	Part Number	Quantity	Vendor	Note
Electronics	PIR sensor	D203B	1	Ebay	
	SD card module	Daier 1.29	1	Amazon	
	SD card	B087JCL881	1	Amazon	
	GPS receiver	GPS-13670	1	Sparkfun	
	GPS jumper wires	PRT-10361	1	Sparkfun	
	Arduino UNO	A000066	1	Amazon	
	Op-amp	LF412ACN/NOPB	2	Digikey	
	Resistor - 10k	CF14JT10K0TR-ND	3	Digikey	
	Resistor - 100k	CF18JT100KTR-ND	1	Digikey	
	Resistor - 1M	VR68J1.0MCT-ND	3	Digikey	
	Resistor - 3.3M	CF14JT3M30TR-ND	1	Digikey	
	Capacitor - 0.1u	493-12784-1-ND	2	Digikey	
	Capacitor - 10u	493-7383-1-ND	3	Digikey	
	Male header	PBC36SADN	1	Digikey	
	Two-position female header	PPTC021LFBN-RC	1	Digikey	
	Three-position female header	PPPC031LFBN-RC	1	Digikey	
	Two-position terminal block	B08B3JP9QZ	1	Amazon	
	Three-position terminal block	B082QZ8Q3X	1	Amazon	
Enclosure	Waterproof box	WQ-55-02	1	Polycase	
	Pole mount kit for box	PK-083	1	Polycase	
	Screws	SCREWS-032-50	1	Polycase	
Power Supply	Battery	PS-1280-F1	1	TNR technical	
	Solar controller	SS-6L-12V	1	Morning Star	
	Female connection receptacle	298-10278-ND	2	Digikey	Used to connect the 12 AWG chord to the terminals of the battery
	12 AWG chords	B074GG48F2	3	Amazon	
	Solar panel	HY010-12M	1	Acopower	
	Pole mount kit for solar panel	SLB-0120	1	Solarland	
	Connection receptacle	889-1000-ND	1	Digikey	Used to create water-proof connection for the solar panel and the enclosure
	Connection plug	889-1012-ND	1	Digikey	
	Nickel crimp	889-1049-1-ND	1	Digikey	
	Cable	1897CSL002-ND	1	Digikey	
	Cable gland	AIO-CSM12-ND	1	Digikey	
Miscellaneous	Jumper wires	1988-1169-ND	5	Digikey	
	Zip ties	B08TBM621K	1	Amazon	
	Electrical tape	13717044	1	Target	
	Gorilla super glue	75575255	1	Target	
	Solder machine	MX 500S	1	Metcal	
	Solder wire	468-480	1	Jensen	
	Drill	B09SN6Y6TS	1	Amazon	The drill bit has 0.5" diameter

Note: This bill of materials is listed for one sensing node.