

Image Reference	Schematic Reference Designator	Component Type	Description	Manufacturer	Manufacturer Part Number	Source	Source Part Number	Cost	Notes
1	U2	GPS Module	Low Power GPS Module	uBlox	LEA-4S	uBlox	LEA-4S	\$ 99.00	Sample, QTY 1 cost
2	R1	Resistor	180 Ohm 0805		ERJ-6GEYJ181V	Digikey	P180ACT-ND	\$ 0.01	
3	C1	Capacitor	4.7uF 16v Tant		TCA1C475M8R	Digikey	511-1471-1-ND	\$ 0.33	
4	C2	Capacitor	4.7uF 16v Tant		TCA1C475M8R	Digikey	511-1471-1-ND	\$ 0.33	
5	C3	Capacitor	Supercap .2F 3.3v	Panasonic	EEC-EN0F204J1	Digikey	P11070CT-ND	\$ 2.50	
6	D1	Diode	Schottky 30V SOD-123 Package	ON Semi	BAT54T1G	Digikey	BAT54T1GOSCT-ND	\$ 0.25	
7	U1	Voltage Regulator	Low Dropout 3.3V 100ma SOT23-5	Texas Instruments	LP2981A-33DBVR	Digikey	296-17361-1-ND	\$ 0.88	
8	U3	Level Translator	Level Translator 2Mbps SC70-6	Maxim	MAX3371EXT+T	Digikey	MAX3371EXT+TCT-ND	\$ 2.20	
9	P1	GPS Antenna	18mm Ceramic GPS Patch Antenna (1580 to 1595 Center Frequency)	Sangshin	KSA-ST1580MS18	RFMW		\$ 5.00	http://webhome.bizmeka.com/~xgtc/p-gps-1.html
10		Enclosure	Black Plastic Enclosure 50x35x15mm	Hammond	1551FBK	Digikey	HM907-ND	\$ 1.56	
11		Hot Shoe Mount	Composite hot shoe adapter	The B.E.C. Group	BEC-HAS	B&H Photo	BEHAS	\$ 19.00	http://www.bhphotovideo.com/c/product/283995-REG/BEC_HAS_HSA_Hot_Shoe_Adapter.html
12		CBA	Custom PCB - Peter Miller					\$ 15.00	A PCB I laid out from my schematic and had fabed
13		Cable	Nikon MC-23 10-pin cable (cut in half - each end can be used separately - cost shown is for full cable)	Nikon	4653	B&H Photo	NIMC23	\$ 64.95	http://www.bhphotovideo.com/c/product/37721-REG/Nikon_4653_MC_23_Connecting_Cord.html
14		Cable	2.5mm Stereo cable (3-conductor) - one end male, one end female - use both ends					\$ 6.00	
15		Cable Release	Aftermarket Cable Release - ebay					\$ 7.00	

Total Parts Cost: **\$ 224.01**