

Parts	Qty	Name	Manufacturer	Part Number	Package	Unit Cost	Total Cost
C1	1	Cap, Ceramic, 0.33uF, 25V, 10%	TDK	C1005X5R1E334K050BB	0402	0.15	0.15
C2	1	Cap, Ceramic, 33nF, 16V, 10%	SMTZone	SMT KIT	0402		0
C3,C6-C8,C17, C18,C20-C24	11	Cap, Ceramic, 0.1uF, 10V, 10%	SMTZone	SMT KIT	0402		0
C4	1	Cap, Ceramic, 10uF, 10V, 10%	Samsung	CL05A106MP5NUNC	0402	0.68	0.68
C5	1	Cap, Aluminum, 47uF, 25V, 10%	Panasonic	EEE-1EA470WP	RADCAN	0.55	0.55
C9	1	Cap, Ceramic, 10nF, 50V, 10%	SMTZone	SMT KIT	0402		0
C10,C14,C15	3	Cap, Ceramic, 2.2uF, 10V, 20%	Kemet	C0402C225M8PACTU	0402	0.2	0.6
C11	1	Cap, Ceramic, 4.7uF, 10V, 20%	Samsung	CL05A475MP5NRNC	0402	0.34	0.34
C12,C13	2	Cap, Ceramic, 0.22uF, 6.3V, 10%	SMTZone	SMT KIT	0402		0
C16,C19	1	Cap, Ceramic, 15pF, 50V, 5%	SMTZone	SMT KIT	0402		0
CTS1	1	Crystal, 25MHz, 18pF	CTS	406I35D25M00000	CTS406		1.09
D1	1	Diode, 20V, 1A	Diodes Inc	B120-13-F	SMA	0.49	0.49
J1	1	Conn, microSD, Push-Push	3M	2908-05WB-MG	microSD	3.09	3.09
J2	1	Header, XBee Pro	Sparkfun	PRT-08272	Header	2	2
J3	1	Conn, Micro-USB B, SMD	TE Connectivity	1981568-1	microUSB-B	1.63	1.63
JP1	1	Term Block, 2pin, R/A, 5mm	On Shore	OSTTH020160	Header	0.54	0.54
JP2	1	Term Block, 4pin, R/A, 5mm	On Shore	OSTTH040160	Header	0.99	0.99
JP3-JP7	5	Header, 1x3	--	On Hand			0
JP8-JP12	Lots	Headers, 0.1"	--	On Hand			0
LED1-5	5	LED, Green, 568nm	Kingbright	APT1608SGC	0603	0.0936	0.468
Q1	1	MOSFET, NPN, 30V, 80A	Infineon	IPP034NE7N3 G	TO-220-3	3.7	3.7
R1,R7,R16	3	Resistor, 10k, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
R2-R6,R9	6	Resistor, 1k, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
R8,R10	2	Resistor, 4.7k, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
R11	1	Resistor, 270, 5%, 1/4W	Rohm	ESR03EZPJ271	0603	0.1	0.1
R12,R17-R19	4	Resistor, 49.9, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
R13	1	Resistor, 100, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
R14-R15	2	Resistor 1.5k, 1%, 1/10W	SMTZone	SMT KIT	0402	0	0
U1	1	IC, Volt Reg, LDO, 3.3V, 3A	STMicroelectronics	SPX29300	TO263-5	1.58	1.58
U2	1	IC, Motor Driver	STMicroelectronics	VNH5019	MULTIPOWER-SO-16	8.58	8.58
U3	1	IC, Gyro/Accel, 6-Axis, SPI	InvenSense	MPU6000	24QFN	10.72	10.72
U4	1	IC, Compass, 3-Axis, I2C	Honeywell	HMC5883L	16LPCC	3.3	3.3
U5	1	IC, MCU, 32bit, 1MB Flash	STMicroelectronics	STM32F407VGT6	LQFP100	12.78	12.78
							<b>53.378</b>
					Digikey order done		
					Sparkfun order done		