

Bill Of Materials - Sensor Station -27AUG2011-V1.0

	Qty	Value	Device	Marking	Parts	Remarks
SEMI	1	LED3MM	3mm red		LED1	
	1	1N5819-B	Schottky diode		D1	
	1	AVR-MEGA8-PPTH	ATMEGA8L-8PU		IC1	
	2	BSS138-SOT23	BSS138 / SOT23		Q1, Q2	
	1	LP2950Z	LP2950-3.3		IC2	3.3V Voltage Regulator
RES	1	680	Resistor carbon 1/8W 5%	blue-gray-brown (gold)	R2	
	5	1k	Resistor carbon 1/8W 5%	brown-black-red (gold)	R3, R4, R5,R6	+ 1 extra / application dependent
	1	4k7	Resistor carbon 1/8W 5%	yellow-violet-red (gold)	R1	
	5	10k	Resistor metalfilm 1%	brown-black-black-red (brown)	R7, R9, R10	+ 2 extra / application dependent
	2	1k	Resistor metalfilm 1%	brown-black-black-brown (brown)		+ 2 extra / application dependent
	1	10k	Resistor carbon 1/8W 5%	brown-black-orange (gold)		+ 1 extra / application dependent
CAP	3	100n	smdcap 1206		C1, C2, C3	
	1	1uF	pol. cap		C5	
	1	2.2uF	pol. cap		C4	
HDR	1	HDR	3x2 pin header 0.1"		ISP	In Circuit Programming header
	1	HDR	2x4 pin header 0.1"		I/O	Optional I/O connector
	4	HDR	3x1 pin header 0.1"		ANA, CUR, I2C, PWR	
	1	CON-JST2_SM06B-SRSS-TB	CON-JST2_SM06B-SRSS-TB		GPS	DIYDrones GPS connector. Farnell order code:1679122
MISC	1	RESONATORPTH	8MHz resonator		Y1	
	1	DIP28	Socket		IC1-SOCK	(Optional) socket for ATMega8L.
	1	PCB			PCB. 3011	
NON	4	MOUNTING HOLE3.0	Mounting holes 3.0mm		H1, H2, H3, H4	Not an actual component, fits M3
	2	HDR	1x1 pin header 0.1"		JP1, JP2	GPS breakout if not using diydrones GPS / Not actual component, wire connect
	1	SOLDER JUMPER	solder jumper		SJ2	Not an actual component. Located on solderside of the PCB
	1	SOLDER JUMPER	Solder jumper		SJ1	Not an actual component. Located on solderside of the PCB