

# Humidity / Temp / Solar v3.2 Parts List

ID	Description	DigiKey Part#	Mouser Part#
X1	3-pin screw term block 3.5mm	ED1515-ND	
X2	RJ-45 Jack 2 Port	A9013-ND	
U1	DS2438Z	Available from Dallas	
U2	DS18S20	Available from Dallas	
U3	HIH-4000-001	Available from Online Components	
REG1	L78L05		511-L78L05ABU
D1	BAT54S	BAT54SWT1OSCT-ND	625-BAT54S
D2	Clairex CLD140		
C1,C2	4.7 uF Electrolytic	PCE3011CT-ND	661-MKA35VC4R7M
C3, C4	0.1 uF Ceramic	311-1141-1-ND	80-C0805C104K3R
R1	100K 1/4W 1%	311-100kFCT-ND	71-CRCW1206-100K
R2	390 1/4W 1%	311-390FCT-ND	71-CRCW1206-390
JP1	2 pin header	WM6707-ND	571-1029727

## Construction Tips

- Place all surface mount components first.
- Observe the polarity of C1 and C2
- R1 is marked 1003
- R2 is marked 3900
- If a water resistant coating (like liquid electrical tape) is going to be used make sure to not apply it to the HIH-4000-001 humidity sensor.
- U3 (HIH-4000-001) should be installed with the open side facing up. See if image on the website for more details.

## Kit Differences

This board is offered in a number of different configurations.

### Without Humidity the Following Parts Will *Not* Be Included

- U3
- R1

### Without Temperature the Following Parts Will *Not* Be Included

- U2

### Without Solar the Following Parts Will *Not* Be Included

- R2
- D2

### With Only Temperature the Following Parts Will *Not* Be Included

- |      |      |          |       |
|------|------|----------|-------|
| • U1 | • U3 | • REG1   | • R2  |
| • D1 | • D2 | • C1, C2 | • JP1 |
| • C3 | • C4 | • R1     |       |