

# 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
- D1
- C3
- U3
- D2
- C4
- REG1
- C1, C2
- R1
- R2
- JP1