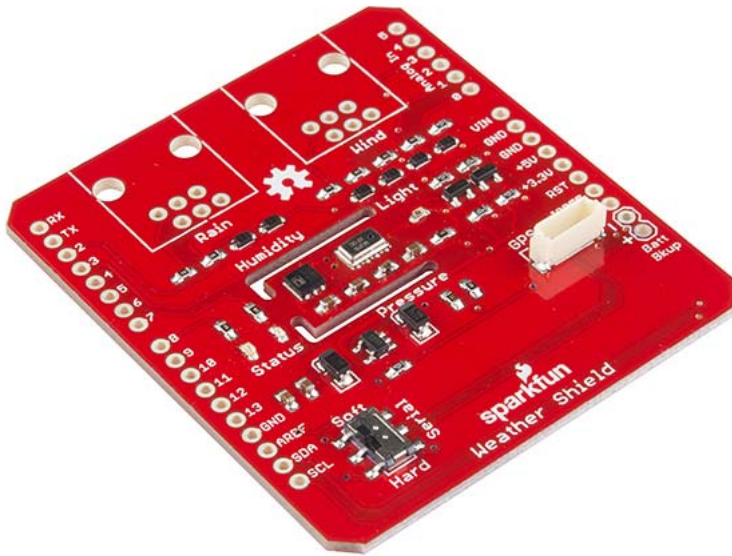




SparkFun Weather Shield

DEV-12081 ROHS ✓ #

★★★★☆ 17



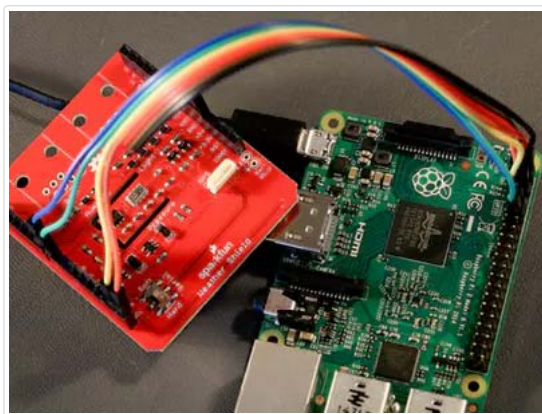
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SparkFun Weather Shield
project on



Hands-on-lab IoT Weather Station using Windows 10

by Windows IoT

Description: The Weather Shield is an easy to use Arduino shield that grants you access to barometric pressure, relative humidity, luminosity and temperature. There are also connections on this shield to optional sensors such as wind speed, direction, rain gauge and GPS for location and super accurate timing.

These Weather Shields utilize the HTU21D humidity, MPL3115A2 barometric pressure, and ALS-PT19 light sensors and relies on the HTU21D and MPL3115A2 Arduino libraries. Each shield comes with two unpopulated RJ11 connector spaces (for optional hook up of rain and wind sensors) and a 6-pin GPS connector (for optional hook up of a GP635T GPS module). Finally, each Weather Shield can operate from 3.3V up to 16V and has built in voltage regulators and signal translators.

Note: The Weather Shield comes as a stand-alone board. Headers, connectors, and additional sensors will need to be purchased separately, check the related items or wish list below!

Note: This shield was designed for the SparkFun Redboard and Arduino Uno and will not work with other boards (like the Arduino Yun, for example) without modification.

Features:

- Humidity/Temperature Sensor - HTU21D

- Barometric Pressure - MPL3115A2
- Light Sensor - ALS-PT19

Documents:

- Schematic
- Eagle Files
- Hookup Guide
- Weather Station Tutorial
- Hands-on-Lab IoT Weather Station
- Datasheets
 - HTU21D
 - MPL3115A2
 - ALS-PT19
- Wish List
- GitHub
- Product Video

Recommended Products



SPARKFUN RECOMMENDED
SparkFun RedBoard - Programmed with Arduino
DEV-12757
\$19.95
★★★★☆ 108



SPARKFUN RECOMMENDED
Arduino Uno - R3
DEV-11021
\$24.95
★★★★☆ 82



SPARKFUN RECOMMENDED
Weather Meters
SEN-08942
\$76.95
★★★★☆ 15



SPARKFUN RECOMMENDED
SparkFun Soil Moisture Sensor
SEN-13322
\$4.95
★★★★★ 3

COMMENTS 128

REVIEWS ★★★★★ 17

TUTORIALS 1

Customer Reviews

★★★★☆ 4.4 out of 5

Based on 17 ratings:

5 star	8
4 star	7
3 star	2
2 star	0
1 star	0

7 of 7 found this helpful:

★★★★☆ XBee compatibility

about 2 years ago by Vann verified purchaser

Note that if you plan to use this in conjunction with the XBee Shield there are some pin conflicts. The XBee Shield uses pins 2 and 3 for serial communication and the Weather Shield uses pins 2 and 3 for the rain and wind gauges. If you don't plan to use the rain and wind gauges then it "just works", but if you install the rain or wind gauges then you'll have to move the serial communication of the XBee to different unused pins.

1 of 1 found this helpful: