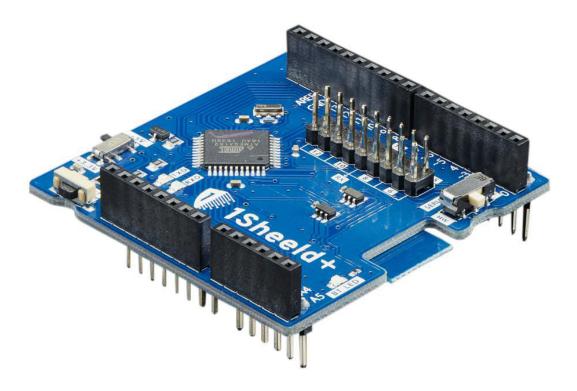1Sheeld+ is a "Bluetooth LE Tethered" shield for Arduino. Plug it into your Arduino and then run the matching mobile app on your tablet or phone. Once paired, the mobile app that allows the usage of all your smartphones' capabilities such as LCD Screen, Gyroscope, Switches, LEDs, Accelerometer, Magnetometer, GSM, Wi-Fi, GPS, etc. into your Arduino sketch. The 1Sheeld+ works with iOS as well as Android!

The first part is a shield that is physically connected to your Arduino board and acts as a wireless middle-man, piping data between Arduino and any Android/iOS smartphone via Bluetooth. The second part is a software platform and app on Android smartphones that manages the communication between the shield and your smartphone and lets your choose between different available virtual shields.

By doing that, you can use 1Sheeld+ as input or output from Arduino and make use of all of the sensors and peripherals already available on your smartphone instead of buying the actual shields. You can use it to control an RC car using the phone's gyroscope, or even tweet when someone enters the room!

The objective of this product is to provide faster and cheaper ways of prototyping your Arduino projects.

1Sheeld have already developed a variety of virtual shields for 1Sheeld+ like LED, Toggle Button, Buzzer, Slider, LCD, 7-Segment, Keypad, Music Player, Game Pad, Notifications, Twitter, Facebook, Foursquare, Gyroscope, SMS, Flashlight and Mic. There are currently more than 40 shields available in 1Sheeld+.

- Uses Bluetooth LE with range up to 30 feet
- Running on an Atmel ATMega162 @ 7.37 MHz
- Communicates with Arduino using UART
- Communication baud rate 115,200 b/s

Product Dimensions: 57.0mm x 55.0mm x 19.0mm / 2.2" x 2.2" x 0.7"

Product Weight: 19.0g / 0.7oz