



## Qwiic Button - Red

SPX-15584

Buttons are an easy, tactile way to interface with your project but why would you want to deal with debouncing, polling, and wiring up pull-up resistors? The Qwiic Button simplifies all of those nasty worries away into an easy to use I<sup>2</sup>C device! With our Qwiic system, no soldering is required, and using the button is as simple as calling `button.isPressed()`.

The button also has a built-in red LED that illuminates the button, which can be configured for your desired level of blinkiness!

If you need multiple buttons for your project, fear not! Each button has a configurable I<sup>2</sup>C address, so you can daisy-chain multiple buttons over Qwiic and still address each one individually. We've got an example in our Arduino Library that provides a super-easy way to configure your Qwiic Button to whatever I<sup>2</sup>C address you desire.

In addition to handling blinking and debouncing the Qwiic Button has configurable interrupts which can be configured to activate upon a button press or click. This means that code on your microcontroller need not waste valuable processing time checking the status of the button but instead can run a small function whenever the button is pressed or clicked! For more information on interrupts check out our guide here!

We've also taken the liberty of implementing a FIFO queue onboard the Qwiic Button where it keeps an internal record of when the button was pressed. This means that if you happen to be Alex Trebek and you have a network of Qwiic Buttons running your *Jeopardy* Game, you can determine who pushed their button first without polling them constantly! This saves your microcontroller time to do other, more important things - like winning the game itself.

We've written an Arduino library to help you get started quickly. You can download the library through the Arduino library manager by searching '**SparkFun Qwiic Button**' or you can get the GitHub repo as a .zip file and install the library from there.

This board is one of our many Qwiic compatible boards! Simply plug and go. No soldering, no figuring out which is SDA or SCL, and no voltage regulation or translation required!

We do not plan to regularly produce SparkX products, so get them while they're hot!

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