



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



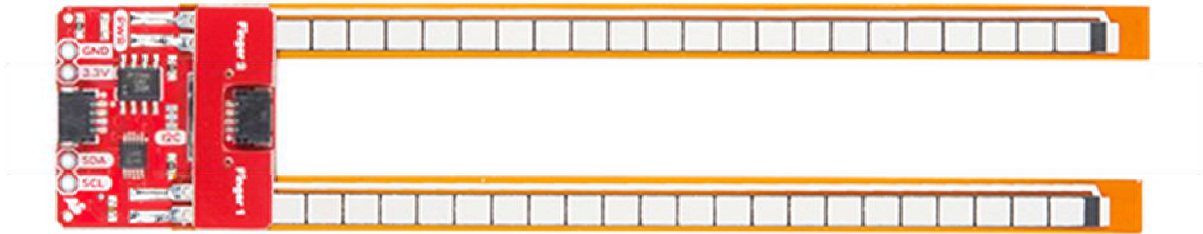
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SparkFun Qwiic Flex Glove Controller

SEN-14666 ROHS

Flex sensors are great for telling how bent something is in a project, but we've been running into issues with durability when using them in wearable applications like gloves. The SparkFun Qwiic Flex Glove Controller isolates the weak point on each flex sensor to allow for more permanent applications. Essentially, this board allows you to incorporate flex sensors into a glove to control lighting, sound, and other effects making it perfect for wearable and e-textile applications! To make it even easier to use this controller, all communication is enacted exclusively via I²C, utilizing our handy Qwiic system. However, we still have broken out 0.1" spaced pins in case you prefer to use a breadboard.

The Qwiic Flex Glove Controller has been equipped with an on-board ADS1015 ADC to I²C chip, that way you will be able to get a multitude of analog inputs without needing to touch the microcontroller's ADC pins. If you plan to incorporate this controller board into gloves (since that is what it was originally designed for) to get sensors on eight fingers (thumbs not included), you will need four Qwiic Flex Glove Controllers. With two gloves equipped with these boards you can even begin making your own VR glove controllers! If you have four controllers on the same I²C bus, you'll need to use every address available to the ADS1015, luckily there are four available!

The SparkFun Qwiic Connect System is an ecosystem of I²C sensors, actuators, shields and cables that make prototyping faster and less prone to error. All Qwiic-enabled boards use a common 1mm pitch, 4-pin JST connector. This reduces the amount of required PCB space, and polarized connections mean you can't hook it up wrong.

Features

- Operating Voltage: 2.0V - 5.5V
- Operating Temperature: -40°C - 125°C
- Resolution: 12 bit
- Sample Rate: 128Hz - 3.3kHz
- Current Consumption: 150µA (Typ.)
- I²C Address: 0x48 (default), 0x49, 0x4A, 0x4B
- 2x Sewing Holes
- 2x Qwiic connectors

