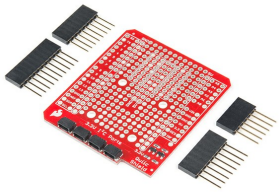

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Previous Versions

SparkFun Qwiic Shield for Arduino

DEV-14352 ROHS

DESCRIPTION INCLUDES FEATURES DOCUMENTS

The SparkFun Qwiic Shield is an easy-to-assemble board that provides a simple way to incorporate the Qwiic Connect System with your Arduino-based device. This shield connects the I²C bus on your Arduino to a series of SparkFun Qwiic connectors and provides the circuitry to convert the 5V given to the 3.3V required by I²C boards in our Qwiic system. As long as your devices are on different addresses, the Qwiic system allows for daisy chaining, meaning you can stack as many sensors as you'd like to create a tower of sensing power!

The Qwiic Shield has four Qwiic connection ports, all on the same I²C bus, as well as a large prototyping area to design and make your own unique circuits. The shield also has a few 3-by-1 rails to help with prototyping, as well as buses for ground, 5V and even 3.3V. We have included four mounting ports in the same design as our Qwiic sensors, allowing you to affix your small board to the top of the shield.

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.

Note: This includes R3 Arduino headers, but they are not pre-soldered onto the board, so some assembly will be required when putting the shield together.

GET STARTED WITH THE SPARKFUN QWIIC SHIELD FOR ARDUINO GUIDE

Tags

ARDUINO DEVELOPMENT I2C PROTOBOARD PROTOSHIELD PROTOTYPING QWIIC SHIELD

SparkFun Qwiic Shield for Arduino Product Help and Resources

TUTORIALS VIDEOS SKILLS NEEDED

Qwiic Shield for Arduino & Photon Hookup Guide
OCTOBER 19, 2017

Get started with our Qwiic ecosystem with the Qwiic shield for Arduino or Photon.

AS726X NIR/VIS Spectral Sensor Hookup Guide
OCTOBER 19, 2017

It's now easier than ever to measure and characterize how different materials absorb and reflect different wavelengths of light. The AS726X spectral sensors allow you to detect wavelengths in the visible range (VIS) and near infrared range (NIR)!

SparkFun GPS Breakout - XA1110 (Qwiic) Hookup Guide
OCTOBER 19, 2017

Figure out where in the world you are with the Qwiic SparkFun GPS Breakout - XA1110.

COMMENTS 1 REVIEWS 0

Customer Comments

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Member #355246 / about 2 months ago / ★ 2

Am I missing something? Why doesn't this use IOREF for the high-side voltage, which is put there specifically to allow shields to be used interchangeably with 3V3 an 5V Arduino varieties? Sure, I can rewire some things, but it makes no sense to do it this way.

START SOMETHING.

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In 2003, CU student Nate Seidle blew a power supply in his dorm room and, in lieu of a way to order easy replacements, decided to start his own company. Since then, SparkFun has been committed to sustainably helping our world achieve electronics literacy from our headquarters in Boulder, Colorado.

No matter your vision, SparkFun's products and resources are designed to make the world of electronics more accessible. In addition to over 2,000 open source components and widgets, SparkFun offers curriculum, training and online tutorials designed to help demystify the wonderful world of embedded electronics. We're here to help you start something.

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