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SparkFun Ludus ProtoShield Wireless

DEV-13295 ROHS ✓ ⚡

DESCRIPTION

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The SparkFun Ludus ProtoShield Wireless is a motor driver shield for your Arduino that is designed to make connecting motors, sensors and other components to your Arduino-based project as fast and easy as possible. The heart of the Ludus ProtoShield Wireless is the Toshiba TB6612FNG H-Bridge Motor Driver. This allows the ProtoShield to control two DC motors at once, both CW and CCW, and brake electronically. The TB6612FNG H-Bridge Driver is rated up to 1.2A per channel at 13V, which means it will drive a fair variety of hobby motors ranging in power. Each of the GPIO pins is broken out on a "servo-style" header field with PWR and GND to allow you to easily connect devices using a 3-pin servo cable.

When powered using the barrel jack connector, the PWR rail can even be switched between 5V (from the Arduino's voltage regulator) and Vin using the onboard slide switches. This feature makes the SparkFun Ludus ProtoShield ideal if you are connecting multiple servos and need more than 5V to your robotics project!

This specific Ludus ProtoShield also includes an I²C pin-out and a built-in XBee socket, making the Ludus ProtoShield Wireless perfect for setting up an XBee-based remote control. Simply plug an XBee module into the socket on the shield, and you have the control system for a simple remote control rover or small autonomous robots!

The SparkFun Ludus ProtoShield Wireless was developed by SparkFun Education to help teach any interested individual the dynamics of wireless motor control through the Arduino IDE, and it was lovingly named after our very own mascot.

[GET STARTED WITH THE LUDUS PROTOSHIELD GUIDE](#)

Tags

ARDUINO DEVELOPMENT DRIVER LUDUS MOTOR DRIVER PROTOSHIELD SHIELD TB6612FNG WIRELESS XBEE

SparkFun Ludus ProtoShield Wireless Product Help and Resources

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SKILLS NEEDED



Ludus ProtoShield Hookup Guide

JULY 30, 2015

Get started with the SparkFun Ludus ProtoShield and Ludus ProtoShield Wireless!



Wireless Motor Driver Shield Hookup Guide

AUGUST 17, 2017

Get started with the SparkFun Wireless Motor Driver Shield!

Customer Comments

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Member #748963 / about 2 years ago / ★ 1

Can i connect 5 servo using this shield?

Thank you



Member #590914 / about 3 years ago / ★ 1

i was wondering, would this work with the most recent Photon redshield? that looks cool and the pinouts look compatible... just double-checking w the experts.



Jimbo / about 3 years ago / ★ 1

It'll just about work with the Photon RedBoard. Everything on the motor driver lines up except the PWM signal on D6, which controls speed on the B motor. You could, potentially, re-wire D6 on the shield to an unused PWM Photon RedBoard pin – re-wiring it to D10 or D11 would work.

If you want to use an XBee with it, make sure you set the UART switch to HW_SER to use the Photon's hardware serial port.



Member #528294 / about 3 years ago / ★ 1

Is one of these shields coming for the Mega?



bri_huang / about 3 years ago / ★ 1

We currently do not have any plans to design / build a Mega version of this shield, but if there is enough interest, we can bring this up in our next new product proposal discussions. Please let us know if this is something you think would benefit you as well as other builders / makers / hackers out there!



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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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