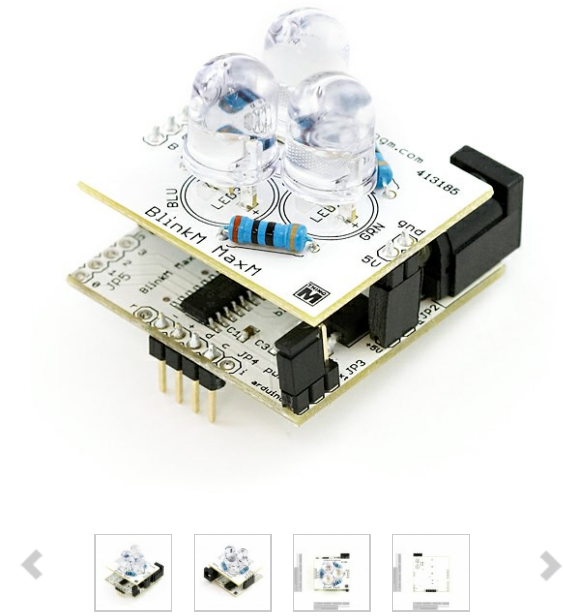

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BlinkM MaxM - I2C Controlled RGB LED

COM-09000 ROHS

2

DESCRIPTION DOCUMENTS

If you used BlinkM and you thought it was good, but needed something to temporarily blind your enemy, the MaxM is what you need. Three large 10mm LEDs combine the forces of 15 individual LED cores to create a flood of RGB light.

BlinkM MaxM is an intensely-bright smart LED for prototyping that comes as a package of two components, a control module (MaxM Master) and a daughter board with three ultrabright LEDs (MaxM Blaster).

MaxM Master runs a unique firmware that creates virtually any RGB color, fades smoothly between two colors, and blinks in virtually any pattern. Like its smaller sibling, it requires almost no knowledge of electronics. Its powerful 1 amp MOSFET transistors can control the industry's most power-hungry LEDs, while its 12 volt power supply lets it be run from a wide variety of power sources, making it perfect for prototyping automotive applications and low-voltage track lighting systems.

MaxM Blaster's trio of LEDs are 50 times as bright as a standard BlinkM and more than 1000 times as bright as a standard LED. They're so amazingly bright they kind of freak us out (and should absolutely not be looked at directly, under any circumstances!).

Finally, it includes four analog input lines, which means that its behavior can be changed without requiring an external controller. We have expanded the BlinkM control language to make this powerful capability available without affecting backward compatibility. All existing BlinkM software should run on the MaxM without requiring any changes.

BlinkM MaxM - I2C Controlled RGB LED Product Help and Resources

SKILLS NEEDED

Core Skill: **Programming**

If a board needs code or communicates somehow, you're going to need to know how to program or interface with it. The programming skill is all about communication and code.

3

Skill Level: Competent - The toolchain for programming is a bit more complex and will examples may not be explicitly provided for you. You will be required to have a fundamental knowledge of programming and be required to provide your own code. You may need to modify existing libraries or code to work with your specific hardware. Sensor and hardware interfaces will be SPI or I2C.
See all skill levels

Core Skill: **Electrical Prototyping**

If it requires power, you need to know how much, what all the pins do, and how to hook it up. You may need to reference datasheets, schematics, and know the ins and outs of electronics.

2

Skill Level: Rookie - You may be required to know a bit more about the component, such as orientation, or how to hook it up, in addition to power requirements. You will need to understand polarized components.
See all skill levels

COMMENTS 14 | REVIEWS ★★★★☆ 2

Customer Reviews

★★★★☆ 4 out of 5

Based on 2 ratings:

5 star	0
4 star	2
3 star	0
2 star	0
1 star	0

Currently viewing all customer reviews.

1 of **1** found this helpful:

★★★★☆ great for decorative projects

about 2 years ago by Member #244547 ✔ verified purchaser

i used this for a color changing gazing ball i made out of an old lamp post base by my driveway. it sits inside a 10" white acrylic globe, and i used a ping pong ball as a diffuser on the led's. the neighbors all love it!!

as stated earlier, the software is pretty buggy, but it works. the ping pong diffuser made it a nice blended color under the white acrylic.

the only reason i didn't give it 5 stars is because within a year the blue LED burned out and i had to replace it.

★★★★☆ Works well, though the LEDs are almost too big.

about 3 years ago by Member #235923 ✔ verified purchaser

Functionality was good, and just as expected. I was able to load up the programming Arduino sketch, and get it working quickly. The open-source BlinkM Communicator programmer software is functional, but pretty much garbage (in Windows it has lots of flukey errors, causes screen problems, doesn't put a button on the task bar to access the open window, etc.). Also, these LEDs are so large, that it's easy to see the discreet red, blue, and green LEDs inside… you'll either need to be using them for something that will be viewed very far away, or need a good diffuser in front of them (otherwise it just looks like you've got 3 different color LEDs behind the diffuser, which you do).

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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