



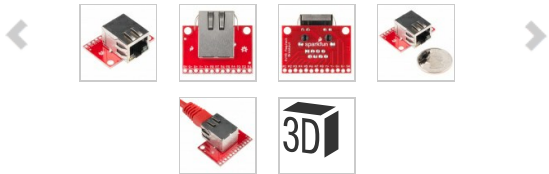
## SparkFun RJ45 MagJack Breakout

BOB-13021 ROHS ✓ ✱

★★★★☆ 1

DESCRIPTION

DOCUMENTS



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3D Download: [Sketchup](#), [STL](#), [Blender](#)

This is the SparkFun RJ45 MagJack Breakout, a simple board that will provide you with a way to put an ethernet port into your breadboard. The SparkFun RJ45 MagJack Breakout is the same one found in our very own mbed Starter Kit and breaks out each pin from the ethernet jack. This rev of the breakout is equipped with the RJ45 MagJack connector already soldered to the board which mean you no longer need to solder the connector to the board yourself or worrying about buying them separately!

The on-board RJ45 ethernet jack has a built in transformer (magnetics), status LEDs, and shielding all for better reliability when you use it. As stated before, each pin from the RJ45 MagJack has been broken out, including: P1-P8 (Pins 1-8), Y+ (Yellow LED Positive), Y- (Yellow LED Negative), G+ (Green LED Positive), G- (Green LED Negative), and SH (Shield).

**Note:** Please keep in mind that this RJ45 MagJack Breakout is for Ethernet networks only. If all you need is a simple RJ45 breakout, we recommend soldering an [RJ45 8-Pin Connector](#) to our [SparkFun RJ45 Breakout](#) as a solution.

### Tags

BREAKOUT

ETHERNET

MAGJACK

RJ45

## SparkFun RJ45 MagJack Breakout Product Help and Resources

TUTORIALS

SKILLS NEEDED



### mbed Starter Kit Experiment Guide

NOVEMBER 27, 2014

This Experiment Guide will get you started with the wonderful world of mbed microcontrollers. Need to find that next step after mastering the Arduino? This a great place to take those skills to the next level.

# Customer Reviews

★★★★☆ 4 out of 5

Based on 1 ratings:

5 star	<div></div>	0
4 star	<div></div>	1
3 star	<div></div>	0
2 star	<div></div>	0
1 star	<div></div>	0

Currently viewing all customer reviews.

1 of 1 found this helpful:

★★★★☆ Good product -- nice and small

about 2 years ago by **Member #733792**  verified purchaser

This product is a single RJ45 jack breakout PCB. I will not comment on its MagJack properties - including the transformers which I presume are for Power over Ethernet applications. I did not buy it for that feature which others may find useful. I wanted a small RJ45 breakout PCB that I could mount and that would allow me access to the 8 standard RJ45 pins. This product achieves smallness and offers access to each of these 8 primary RJ45 pins. That satisfied my use. it has other solder pins which I assume are for the transformer and LEDs and that may interest others with more sophisticated needs.

What I like about this product: 1. small 2. 2 clearance holes for mounting this PCB 3. Breakout solder pad access to all internal RJ45 jack pins.  
4. well labeled.  
5. attractive red PCB color. (just kidding. don't care about the color). 6. Build quality looks good.

I looked around and this was one of the smallest RJ45 breakout PCBs I found. So, good for them. I will buy them for my application.

I would like to see them make PCBs with 2, 3, and 4 RJ45 jacks with solder pad breakouts in which the RJ45 jacks are NOT in parallel but in which each Jack is individually addressable. That I could not yet find.

Overall, seems like a good example of a RJ45 breakout PCB.





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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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