

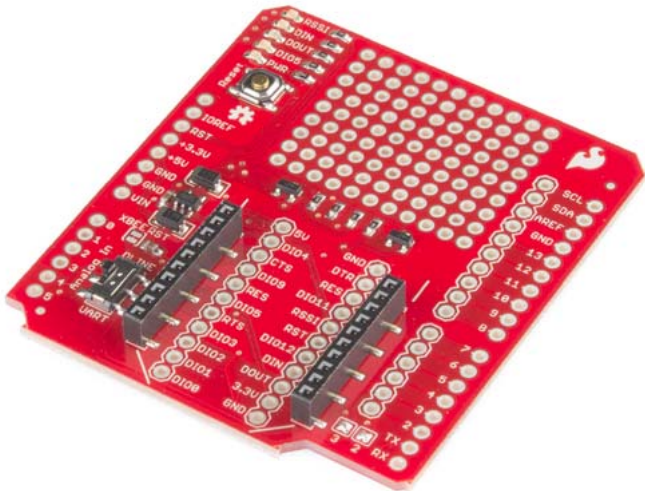
It is that time again! SparkFun Electronics will be closed Friday, January 13th for our annual inventory day. Please keep in mind that any orders placed after 2PM (Mountain Time) on Thursday, January 12th will not ship or be prepared for local pickup until we open for normal operations on Monday, January 16th. In addition, tours will resume on Friday, January 20th. Thank you for your patience!



SparkFun XBee Shield

WRL-12847 ROHS

★★★★☆ 17



\$14.95

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SparkFun XBee Shield
project on



Windows IOT - Automate your power outlets

by Syed Sanoor

Description: XBee radios are an awesome way to add wireless capability to your Arduino project and now it's even easier with the SparkFun XBee Shield. The shield form-factor mates directly with any dev board that has an Arduino standard footprint and equips it with wireless communication capabilities using the popular XBee module. This unit works with all XBee modules including the Series 1 and 2, standard and Pro versions.

The serial pins (DIN and DOUT) of the XBee are connected through an SPDT switch, which allows you to select a connection to either the UART pins (D0, D1) or any digital pins on the Arduino (D2 and D3 default). Power is taken from the 5V pin of the Arduino and regulated on-board to 3.3VDC before being supplied to the XBee. The shield also takes care of level shifting on the DIN and DOUT pins of the XBee. In the latest revision the diode level shifter is replaced with a more robust MOSFET level shifter.

The board also includes LEDs to indicate power and activity on DIN, DOUT, RSSI, and DIO5 pins of the XBee. The Arduino's reset button is brought out on the shield, and a 9x11 grid of 0.1" holes are available for prototyping. The shield does not come with headers installed; we recommend the Arduino Stackable Header Kit. The XBee module is also not included.

Features:

- Mounts directly onto your Arduino
- DIN and DOUT pins of XBee can be connected to either the UART pins or any digital pin on the Arduino (D2 and D3 default)
- 3.3V power regulation and MOSFET level shifting on-board
- 9x11 grid of 0.1" spaced prototyping holes
- Reset button brought out to shield
- Power, DIN, DOUT, RSSI and DIO5 indicator LEDs

Documents:

- Schematic
- Eagle Files
- Hookup Guide
- GitHub (Design Files)

Recommended Products



SPARKFUN RECOMMENDED
SparkFun XBee Explorer USB
WRL-11812
\$24.95
★★★★☆ 32



SPARKFUN RECOMMENDED
SparkFun XBee Explorer Dongle
WRL-11697
\$24.95
★★★★☆ 18



SPARKFUN RECOMMENDED
SparkFun XBee Explorer Regulated
WRL-11373
\$9.95
★★★★☆ 10



SPARKFUN RECOMMENDED
SparkFun XBee Explorer Serial
WRL-13225
\$19.95

COMMENTS 61 **REVIEWS ★★★★★ 17** TUTORIALS 2

Customer Reviews

★★★★☆ 3.7 out of 5

Based on 17 ratings:

5 star	4
4 star	8
3 star	1
2 star	4
1 star	0

2 of 2 found this helpful:

★★★★★ Very simple way to get up and running quickly with Arduino and Xbee
about 2 years ago by Chris Hennes ✓ verified purchaser

Five minutes of soldering (don't forget to buy header pins!) and you are up and running with XBee and Arduino. The board has a switch that lets you control where the XBee's data is sent as well as a reset button. It's a simple shield that does one thing very well and then gets out of the way. Do note that it will block the ISP pins on your Arduino, however.

1 of 1 found this helpful:

★★★★☆ works as advertized

last year by Member #763158 ✓ verified purchaser

Best option of all competition by far due to excellent documentation and tutorials.

Minor nitpick is I also find it a little annoying that it doesn't come with the headers preinstalled. even though i have headers and a soldering Iron, I would rather pay more money and have them preinstalled than spend time having to solder my own headers to it. I appreciate there is probably a good reason you don't have them installed.

1 of 1 found this helpful:

★★★★★ simple to use

about 2 years ago by Gizmoguy ✓ verified purchaser

I was breadboarding my Xbee before getting this and also doing my logic conversions on the breadboard. This cleaned up my project and the logic converter works great. I used it on an Arduino mega and the switch to change the serial lines made this easy.

3 of 4 found this helpful:

★★★☆☆ Headers not included

about 2 years ago by Member #308965 ✓ verified purchaser

Would it kill you, SparkFun, to include a set of headers with the shield? Now I got the shield only to realize that I need to order \$1.50 headers, pay \$5 for shipping, and wait another week before I can start using it.

👤 Single T replied on July 6, 2015:

Sorry, but unless the shield explicitly is listed to include headers, they generally are listed without headers. It's good to keep some extra headers in your workbench in case you need them. <https://www.sparkfun.com/products/11417>

1 of 3 found this helpful:

★★☆☆☆ Product ok, tutorials are ancient and outdated!

about 2 years ago by phamilton ✓ verified purchaser

If you plan to use this product with wifi Xbee, don't rely on Sparkfun tutorials, they are ancient, outdated and DO NOT WORK. Go to github...

👤 Single T replied on May 15, 2015:

I'm sorry, but that tutorial is for series 1 xbees. It's actually not outdated or broken. But it doesn't cover Xbee WIFI. So you would want to use a different tutorial if that is your goal.

1 of 3 found this helpful:

★★★★☆ Appears to work

about 2 years ago by Member #59463 ✓ verified purchaser

Limited range

👤 Single T replied on June 26, 2015:

Range is related to your Xbee module. The shield does not have relation to range.

★★★★☆ can't stack

about 8 months ago by Member #369149 ✓ verified purchaser

Would be nice to have the stacking mounting holes in this PCB. They can be drilled after the fact, but why are they not there in the first place?

0 of 1 found this helpful:

★★☆☆☆ Can't get it to work yet...

about 2 years ago by Member #687484 ✓ verified purchaser

Maybe my office wifi is too secure to use this...

Will update if I can get it working.

★★★★☆ Perfect sheild

about a year ago by Member #483152 ✓ verified purchaser

Perfect choice to add X Bee to an Arduino Uno . This board has everything you need and then some for future use . Clearly laid out and labeled . Simply perfect.

★★★★☆ Well made, works great, should come with headers

about 10 months ago by Member #534326 ✓ verified purchaser

Title says it all. Excellent accessory to help make the XBee more useful, but it really should come with headers. That being said, would definitely buy again.

0 of 1 found this helpful:

☆☆☆☆ Failure to communicate

about 2 years ago by rnowell ✓ verified purchaser

The XBee shield was mounted on an Arduino Uno. It will send data to another XBee on a PC running XCTU but I have been unable to get data back to the Uno. Have read and re-read the various tutorials about the shield and XBees but nothing I can find explains the problem. The problem lies with either the shield, the Uno or the sample sketches found in the tutorial. The shield itself is very simple so I doubt it is defective but who knows?

★★★★★ Sparkfun definitely stands behind their product

about 6 months ago by Member #398446 ✓ verified purchaser

I bought two XBee shields, soldered on the headers, but found that one was dead on arrival. I requested a replacement and quickly received just that. Both boards work fantastically well! I've never received a faulty board before but they certainly stand behind their products. I know how rare an event such as this is, and thank them for their support. I buy most of my components from them and will continue to do just that.

★★★★☆ Blew up in smoke

about 2 years ago by Member #356669 ✓ verified purchaser

Bought two of these, soldered on headers and connected them both up to an Arduino, first worked great and the second one sparked, started smoking. Both were connected identically, no solder joining two pins together or anything like that. Other than that the board seems great, only improvement I would make is include a set of stacking headers. Also thanks to the Sparkfun team for resolving my issue with the faulty board, I guess with any product, good or bad, there will be the odd one or two bad ones.

It looks like the (diode?) closest to the wee switch may have blown, it appears to have a wee bubble in the top of it.

👤 Single T replied on June 29, 2015:

Glad we could get you taken care of with a replacement!

★★★★★ A good way to add wireless

about 3 months ago by Member #807645 ✓ verified purchaser

The shield needs headers (purchased separately) and some assembly, but this was obvious from the description when I bought it. It worked perfectly and left some room on the board for the rest of my project, so it was an ideal solution for me. So much so that I've bought more of them for additional projects.

☆☆☆☆ Failure to communicate

about 2 years ago by rnowell ✓ verified purchaser

The XBee shield was mounted on an Arduino Uno. It will send data to another XBee on a PC running XCTU but I have been unable to get data back to the Uno. Have read and re-read the various tutorials about the shield and XBees but nothing I can find explains the problem. The problem lies with either the shield, the Uno or the sample sketches found in the tutorial. The shield itself is very simple so I doubt it is defective but who knows?

★★★★☆ Great product

about 10 months ago by Member #717443 ✓ verified purchaser

First one I bought was buggy, but customer service was great and replaced it for me. The item works great!
