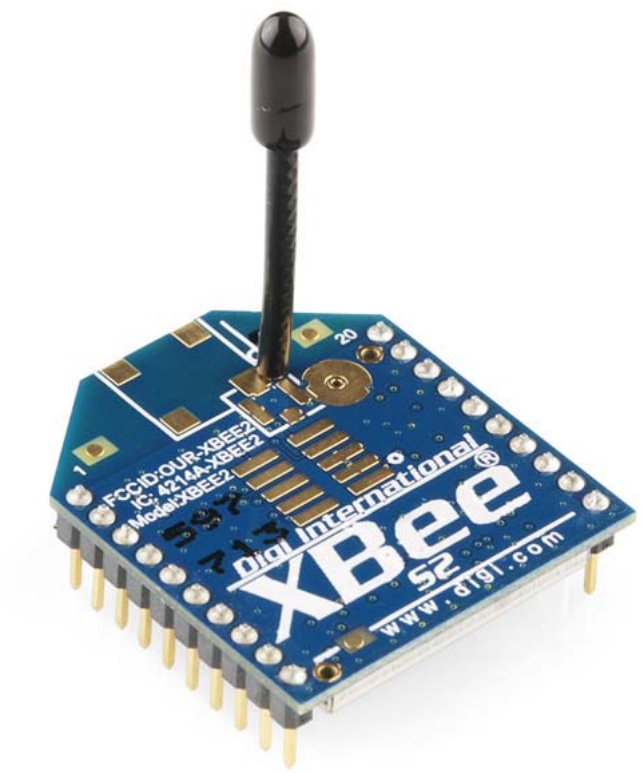
XBee 2mW Wire Antenna - Series 2 (ZigBee Mesh)

WRL-10414 ROHS

★★★★½ 8



$22.95

Shipping outside of the US?
Click here for info

NOTIFY ME

1	quantity
O	out of stock
$22.95	1+ units
$21.80	25+ units
$20.66	100+ units

We do not currently have an estimate of when this product will be back in stock.

Need larger quantities?
Check out our Volume Sales program

Description: This is the XBee XB24-Z7WIT-004 module from Digi. Series 2 improves on the power output and data protocol. Series 2 modules allow you to create complex mesh networks based on the XBee ZB ZigBee mesh firmware. These modules allow a very reliable and simple communication between microcontrollers, computers, systems, really anything with a serial port! Point to point and multi-point networks are supported.

These are essentially the same hardware as the older Series 2.5, but have updated firmware. They will work with Series 2.5 modules if you update the firmware through X-CTU.

Not sure which XBee module or accessory is right for you? Check out our XBee Buying Guide!

Note: If you are looking for a simple point-to-point configuration, you might want to try the Series 1 instead. The Series 2 requires considerable setup and configuration. We highly recommend *Building Wireless Sensor Networks* as a guide for setting up mesh networks.

Note: Series 1 and Series 2 XBee modules have the same pin-out. However, Series 1 modules cannot communicate with Series 2 modules.

Note: If you are using these outside of the United States, please check with your local laws regarding radio communication.

Features:

- 3.3V @ 40mA
- 250kbps Max data rate
- 2mW output (+3dBm)
- 400ft (120m) range
- Built-in antenna
- Fully FCC certified
- 6 10-bit ADC input pins
- 8 digital IO pins
- 128-bit encryption
- Local or over-air configuration
- AT or API command set

Documents:

- Digi XBee Series 2 Page
- Datasheet
- Dimensional Drawings
- Digi Examples and Guides
- X-CTU Software

Recommended Products

PAGE 1 OF 6

SPARKFUN RECOMMENDED
SparkFun XBee Explorer USB
WRL-11812
$24.95
★★★★½ 32

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

SPARKFUN RECOMMENDED
SparkFun XBee Explorer Regulated
WRL-11373
$9.95
★★★★½ 10

SPARKFUN RECOMMENDED
SparkFun XBee Explorer Serial
WRL-13225
$19.95

COMMENTS 54 | **REVIEWS ★★★★½ 8**

Customer Reviews

★★★★½ 4.6 out of 5

Based on 8 ratings:

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

5 of **5** found this helpful:

★★★★☆ Straightforward to use

about 2 years ago by Rob Purser ✔ verified purchaser

I used two of these to communicate between an Arduino and a Raspberry Pi in my Internet Connected Fundraising Signboard. They worked well, but it does take some configuration, soldering, and a lot of bits and pieces to get them running. You also need an XBee Explorer USB. I wasn't able to get them reliably working over the claimed 400' range, though they reliably worked outdoors at 200' line of sight in clear weather. When it's raining, the range is definitely reduced. You can connect them directly to a Raspberry Pi (if you disable console input/output, but you'll need the XBee shield to work with the Arduino, since the XBee operates at 3.3Volts, and needs the serial lines level shifted.

3 of **3** found this helpful:

★★★★★ awsome

about 2 years ago by Member #449644 ✔ verified purchaser

they take a little learning at first, but they are really quite easy to setup up once you get the hang of it. I was really impressed at how powerful their capabilities are. I wish i started using them a while ago.

4 of **4** found this helpful:

★★★★★ I/O Data Sample Rx Indicator

about 2 years ago by Member #405559 ✔ verified purchaser

I use my Xbees in combination with arduino mini pros to send digital data frames. A sensor is reading data, the arduino sets the power high or low on the Xbee digital inputs and the Xbee is sending the data frames to the coordinator. After this, the arduino puts himself and the xbee to sleep. On the oter side my raspberry pi reads the serial input with a java program and writes the received data in a database. Everything works fine and reliable. It took me a bit of time…

★★★★★ The bread & butter. The heart and soul.

about 2 months ago by pininfrna ✔ verified purchaser

Use these little badasses to power the IoT! They're incredible. The book Sparkfun recommends will teach you how to use them.

You will need the USB dongle and some Xbee-spaced headers. You will also need terminal software for your computer, and the XCTU software from Digi. (Free, Mac+Windows).

Contrary to what the description says, this is the module to get. Don't bother with Series 1 unless all you're doing is a Hello World.

Oh and get more than one, or else (as they say in the book): it's like getting one walkie talkie for Christmas!

★★★★★ Somewhat complicated to set up, but doable.

about 2 months ago by Member #855873 ✔ verified purchaser

Fun to play with and learn. Got to admit I haven't found a practical application yet. I found "Building Wireless Sensor Networks Using Arduino" by Matthijs Kooijman to be a valuable text for an Xbee novice like me, along with the docs from Digi.

★★★★☆ communication

about 10 months ago by Member #608163 ✔ verified purchaser

good device for sending data to a wireless building automation.

★★★★☆ Excellent product

about 11 months ago by Member #772281 ✔ verified purchaser

It takes a bit to understand how ZigBee works and how to configure it. I was trying to get this to connect to a ZigBee Home Automation device. The article below helped me. Once I followed it, it worked like a charm.

http://www.desert-home.com/2014/10/ok-back-to-zigbee-protocol-and-xbees.html

---

★★★★★ It's a radio!

about a year ago by Member #480106 ✔ verified purchaser

Once you learn how to set them up (YouTube: tunnelsup) and some programming via the Arduino IDE, they are the ducks guts!
