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SparkFun Bluetooth Mate Gold

WRL-12580 ROHS✔ ★★★★☆1



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Description: The Bluetooth Mate Gold is very similar to our BlueSMiRF modem, but it is designed specifically to be used with our Arduino Pros and LilyPad Arduinos. These modems work as a serial (RX/TX) pipe, and are a great wireless replacement for serial cables. Any serial stream from 2400 to 115200bps can be passed seamlessly from your computer to your target. We've tested these units successfully over open air at 350ft (106m)!

Bluetooth Mate has the same pin out as the FTDI Basic, and is meant to plug directly into an Arduino Pro, Pro Mini, or LilyPad Mainboard. Because we've arranged the pins to do this, you cannot directly plug the Bluetooth Mate to an FTDI Basic board (you'll have to swap TX and RX).

This unit ships with an RN-41 class 1 bluetooth module, a very easy-to-use and well documented bluetooth module. Make sure you check out the datasheet and command set links below. If you don't need the extra range, check out the Bluetooth Mate Silver which uses a Class 2 module which has less range.

Unit comes without a connector; if you want to connect it to an Arduino Pro, we'd suggest the 6-pin right-angle female header.

Note: If you are looking for the ability to use the FTDI directly with your Bluetooth Mate check out our Crossover Breakout for FTDI!

Note: The hardware reset pin of the RN-41 module is broken out on the bottom side of the board. This pin is mislabeled as 'PIO6', it is actually PIO4. Should you need to reset the Mate, pull this pin high upon power-up, and then toggle it 3 times.

Features:

- v6.15 Firmware
- · Designed to work directly with Arduino Pro's and LilyPad main boards
- FCC Approved Class 1 Bluetooth[®] Radio Modem
- Very robust link both in integrity and transmission distance (100m) no more buffer overruns!
- · Low power consumption : 25mA avg
- Hardy frequency hopping scheme operates in harsh RF environments like WiFi, 802.11g, and Zigbee
- · Encrypted connection
- Frequency: 2.402~2.480 GHz
- Operating Voltage: 3.3V-6V
- Serial communications: 2400-115200bps
- Operating Temperature: -40 ~ +70C
- · Built-in antenna

Dimensions:

• Board: 1.75x0.65"