



Product Info

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Bluetooth Modem - BlueSMiRF Silver

sku: WRL-10269

Description: The BlueSMiRF Silver is the latest Bluetooth wireless serial cable replacement from SparkFun Electronics! This version of the popular BlueSMiRF uses the RN-42 module which has a bit less range than the RN-41 module used in the BlueSMiRF Gold. These modems work as a serial (RX/TX) pipe. Any serial stream from 9600 to 115200bps can be passed seamlessly from your computer to your target.

The remote unit can be powered from 3.3V up to 6V for easy battery attachment. All signal pins on the remote unit are 3V-6V tolerant. No level shifting is required. **Do not** attach this device directly to a serial port. You will need an [RS232 to TTL converter circuit](#) if you need to attach this to a computer.

Unit comes without a connector. Please see related male and female pins below.

Specifications:

- FCC Approved Class 2 Bluetooth Radio Modem
- Extremely small radio - 0.15x0.6x1.9"
- Very robust link both in integrity and transmission distance (18m)
- Hardy frequency hopping scheme - operates in harsh RF environments like WiFi, 802.11g, and Zigbee
- Encrypted connection
- Frequency: 2.4~2.524 GHz
- Operating Voltage: 3.3V-6V
- Serial communications: 2400-115200bps
- Operating Temperature: -40 ~ +70C
- Built-in antenna

Dimensions: 51.5x15.8x5.6mm

Documents:

- [Schematic](#)
- [RN-42 AT Command Set](#)
- [Roving Networks Bluetooth® module datasheet](#)
- [Check out our Bluetooth Tutorial](#)
- [Wiring Example](#)
- [Connecting to a SSC-32 Robot](#)

This is a single unit only. We recommend the purchase a USB dongle to interface to a computer if you do not already have access to a computer with Bluetooth connectivity.

Pricing



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SlyVixsky | December 15, 2010 at 11:35 PM ★ 1

it has "a bit less range" than the gold but by how much?



SlyVixsky | December 15, 2010 at 11:37 PM ★ 1

Strike that, the range is listed on the RN-42 product page as 50-60 feet

TheMoog | December 15, 2010 at 2:14 PM ★ 1

why not have the pins be compatible with the Bluetooth Mate? or the uart adapters you sell?

Kroony | December 16, 2010 at 9:20 PM ★ 1

This is significantly cheaper than the BlueSMiRF Gold. Since it's the same breakout board design, are we likely to see a price drop on the BlueSMiRF Gold in the near future? Question is based on the price difference between the RN-41 and RN-42 modules.

RogueBoticist | December 17, 2010 at 11:08 PM ★ 1

It is nice to see you have added this design to your catalog, I believe it will make a through-hole Bluetooth (BT)

solution possible for more inventors with low budgets [mad props SFE].

I highly recommend this module to anyone starting out (and not requiring the 100 meter range of class 1 BT) because this baby is configurable via wireless BT link using a rich command set.

youngmatt | **December 17, 2010 at 9:58 PM** ★ 1

will you be brining out a Bluetooth Mate Version?

miahp | **January 17, 2011 at 7:06 AM** ★ 1

does anyone have the basic set up code for this device? I am using a Mac and have established a connection, however i cant seem to locate a simple Arduino Sketch to make a light blink. Any help on this? i have looked at the Wiring tutorial and still nothing...

Thnx!

MindWalker | **January 24, 2011 at 9:25 AM** ★ 1

Is there any way to get an Eagle part of this? I don't see it in the SparkFun library. Or, should I just re-create the given schematic in my schematic?

unexpected62 | **January 26, 2011 at 1:13 PM** ★ 1

Do we jump CTS and RTS by dropping a little solder on the back jumper? The datasheet says there's a label J1 to do it... but I'm assuming its outdated because I don't see that..



Travis G | **February 27, 2011 at 11:51 AM** ★ 1

Yep. It's a solder jumper so you just put a dab of solder on the pads and you're good!

Member201632 | **February 25, 2011 at 12:34 PM** ★ 1

Could you tell me what is the difference between Bluetooth Modem - BlueSMiRF Silver and Bluetooth Mate Silver? what can you recommended me for to communicate with cellphones Nokia S60? Nokia uses RFCOMM protocol and SPP service profile. Please someone can help me



Travis G | **March 23, 2011 at 7:30 AM** ★ 1

It's somewhat elusive, but to get this device working set your baud rate to 115,200 bps! Took me forever to figure this out.

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