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Serial Telemetry Radio Kit - 915MHz, 500mW WRL-17255

Retired Product This product has been retired from our catalog and is no longer for sale. This page is made available for those looking for datasheets and the simply curious. DESCRIPTION INCLUDES FEATURES DOCUMENTS

The Serial Radio Telemetry Kit is a small, lightweight, and inexpensive open source radio platform that can allow for ranges of better than 300m out of the box. The radio uses the very popular Si1000 chipset along with the open source SiK firmware. This firmware allows for a simple serial cable replacement to transmit any serial data including telemetry, RTK correction data (RTCM), or simple Serial.print() statements without any configuration required.

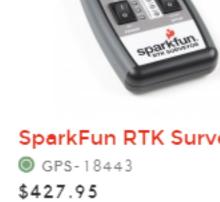
This telemetry kit includes two radio modules, a microB USB cable, microB OTG cable, two JST-GH cables, two right-angled RP-SMA connectors, and two 915MHz antennas. Each radio module in the kit features a transmit power of 500mW, a RX sensitivity of -117dB, a full duplex transparent serial link of 57600baud and are equipped with a microB USB and UART port for easy connectivity.

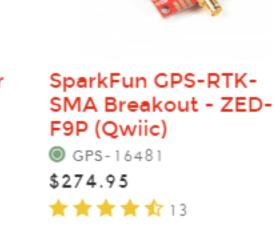
Both radios have a microB connector and use the FT23x USB to serial IC making it immensely easy to pass serial data from a remote radio to a base computer or cell phone. Radios are configured using simple AT commands. The provided JST-GH cables make connecting to the TX/RX pins of the radio a literal snap. In order to use the Serial Telemetry Radio Kit, you'll need to cut the one of the

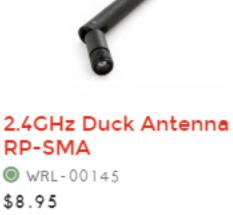
A getting started guide is included in the Documents tab to help you set up this radio link for the Pixhawk drone controller but this link can be used for any serial data transmission.

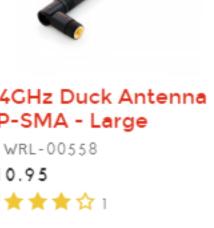
Tags 500MW

## Hookup Accessories for Serial Telemetry Radio Kit - 915MHz, 500mW









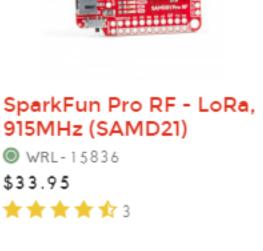
PAGE 1 OF 4

PAGE 1 OF 3

Similar Items for Serial Telemetry Radio Kit - 915MHz, 500mW



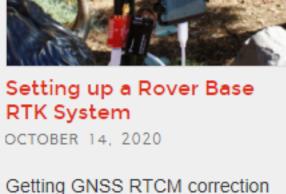






Serial Telemetry Radio Kit - 915MHz, 500mW Product Help and Resources

TUTORIALS



data from a base to a rover is

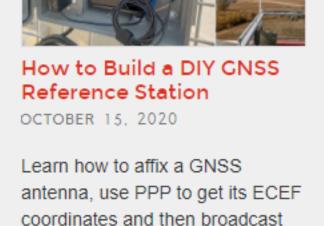
easy with a serial telemetry radio!

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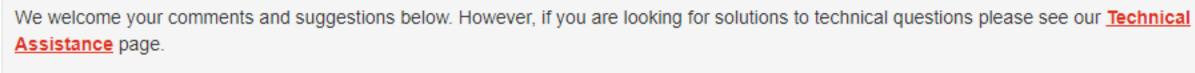
setup and running.



your own RTCM data over the

internet and cellular using NTRIP

to increase rover reception to 10km!



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COMMENTS 14

Comments

JB\_Remote / about 2 years ago / ★ 2

of both units at the same time. Great for testing antennas.

RocketGuy / about 3 years ago / 🖈 2

Is it 500mw or 100mw? Conflicting descriptions.

Member #1639689 / about 2 years ago \* / ★ 1

REVIEWS 0

Looking for answers to technical questions?

out to about 462mW. Close enough to 500mW for me. Although in the software reports on 100mW when you do an inquire.

**2** 

to send and receive RTK corrections between a Surveyor Rover and Surveyor Base when there was a mile between them. I was happy with that. I did put after-market antennas on both radios (Superbat 900MHz 3G 4G Antenna 9dBi through Amazon).

I'm using the RFD900 Tools and I also see the TXPOWER apparently limited to 20. Did you do anything to

lower than 20, but don't have a way to measure the actual power. I can confirm that these radios were able

get to 26.65? I wonder if it boots up set to 26.65 (27), but only reports 20. I was able to set it to numbers

I can confirm the Unit puts out 500mw. I measured it with a HP Spectral analyzer and got 26.65 dBm. This works

I have been very pleased with the product. It simple to use out of the box. Find the RFD900 tools on the internet

if you want to play with the unit. There mode were you can connect one unit to you computer and see how RSSI

RossRobotics //codlink / about 3 years ago \* / \* 1 I would go for 500, as the tags also state 500. More than likely that the guide covers more than one version. It would be nice if SF would clarify it though. SF has changed over the last couple of years and that's why I don't purchase from here anymore. It's obvious that they don't read comments and

reviews anymore. Even the spam is out of control.

understanding.

Landscape Futurist / about 2 years ago / 🖈 1

version?

🏓 Ell C / about 3 years ago \* / 🖈 2

AlexWaller / about 3 years ago / \* 1

Sorry it took so long guys - we just missed this comment. We've been busy!

The spam is definitely annoying. I zap it every morning, first thing.

RossRobotics //codlink / about 2 years ago / \*1

CF / about 2 years ago / ★2

Ell C / about 2 years ago / \* 2

working on it, but those buggers are persistent.

Can pairs of these devices be mixed and matched between the pairs that ship in each box, without any

Pair1RadioB Pair2RadioA Pair2RadioB), can Pair1RadioA communicate with Pair2RadioA without

reconfiguration? I am not asking about one-to-many, only about mixing one-to-one pairs. Thanks!

reconfiguration? In other words, if I buy two pairs of these radios (four in total, let's call them Pair1RadioA

Says 500 on device, says 100 in quick start guide. Would also like clarity.

hours a day and we don't work on holidays and weekends so you might see some spam for a bit until it gets deleted. Sometimes one or two spam comments might get missed as well, flagging them helps but some might get missed, just let us know and we can zap them. We're just a small collection of humans against an army of spam bots, than you for your patience and

SparkFun receives thousands of spam comments 24 hours a day, 7 days a week,

365.25 days a year. We do the best we can to catch them all but we don't work 24

To your issue - the attached quick start lists 100 mW maximum output power. That said, you are

correct that there are multiple versions and our internal datasheet for this one says 500mW.

Is that why there is spam under this comment that states "2 weeks ago"?

Assuming the 300m range in the description is for the 100mw version (https://www.sparkfun.com/products/15007), does anybody have an updated Tx/Rx range for the 500mw John Pilgrim / about 2 years ago / 🛊 1

Entirely possible. I just recently got involved. It's dependent on whatever else I have

going on, so while I do try to check in every day, I sometimes miss things. We're

MLH / about 2 years ago / ★ 1 Not likely at 500mW or even 100mW. A ham license would be required to operate legally, sparkfun should mention this in the description.

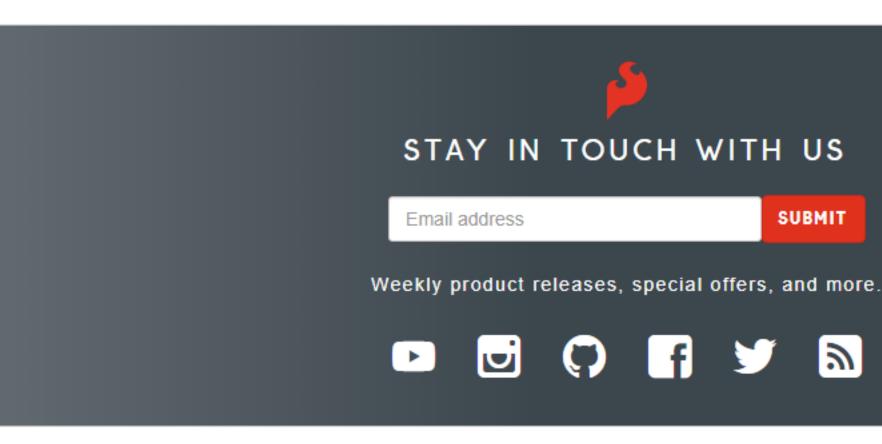
Kuhny1 / about 2 years ago \* / ★ 1

chip / about 3 years ago / 🛊 1

Do these radios have an FCC ID? If so what is it?

I understand that this reply is really late. In the US, the FCC states on their site, that the maximum unlicensed transmit power for ISM bands is 1W with max radiated output of 4W. So this should (I said "should", use at your own risk I'm not accountable for any legal trouble you get into...) be completely legal to use without FCC device registration or licensing. As long as it is part 15 certified. Its not specified if it is or not.

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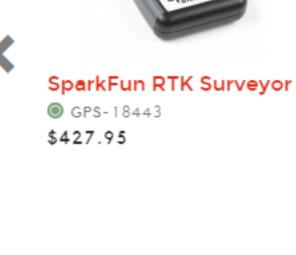
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SITE INFORMATION

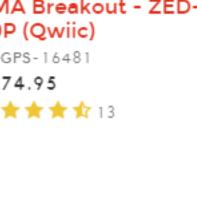
SparkFun Electronics ® / 6333 Dry Creek Parkway, Niwot, Colorado 80503

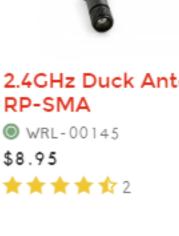
provided JST-GH cables in half and tin the ends (for insertion into Arduino headers) or solder the connections to your remote unit (rover, weather station, Arduino, etc). Plug the other module into the USB port on your base station, computer, or cell phone.

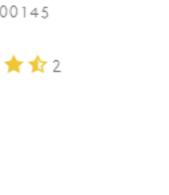
915MHZ KIT PIXHAWK RADIO CONTROLLED RADIO TELEMETRY ROBOTICS RP-SMA WIRELESS

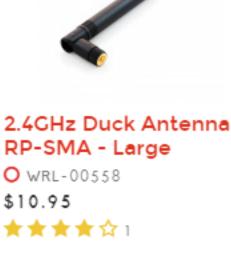


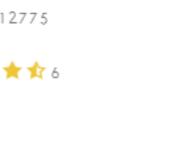












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