How to start to work with JRadio

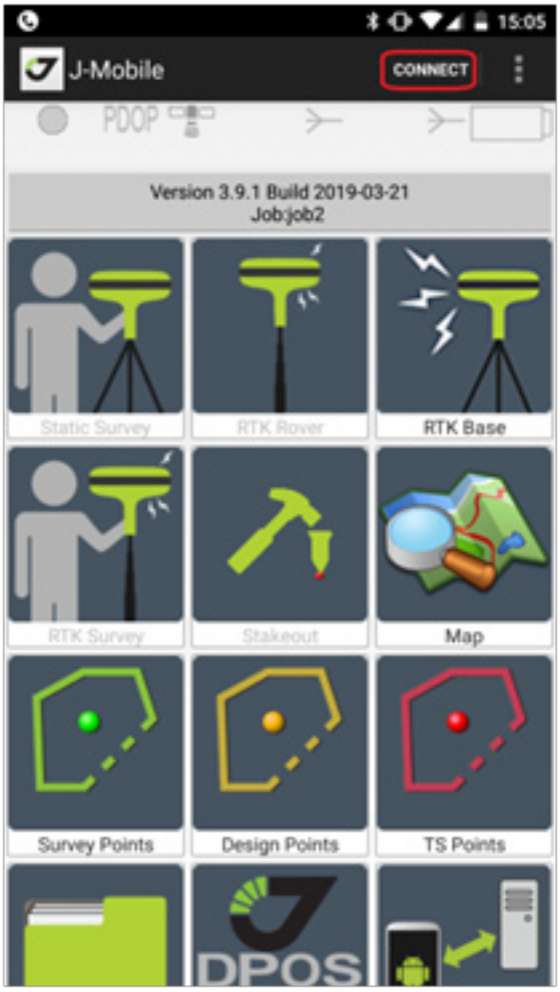
Version 1.1

Last Revised June 13, 2019

How to start using and setting up JRadio and JAVAD TRIUMPH-2 receiver via JMobile

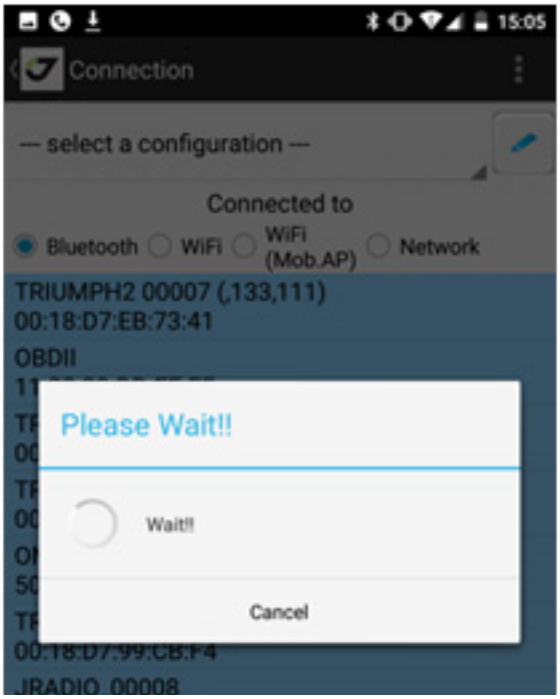
To set up the TRIUMPH-2 as a Rover with JRadio as an external modem, use the JMobile software.

Start JMobile on your device, then tap Connect:



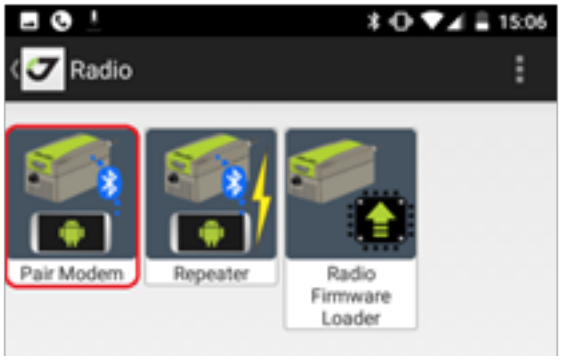
Tap on Bluetooth radio button to use the Bluetooth technology for connecting. Find in the list of available devices your TRIUMPH-2 and tap on it.

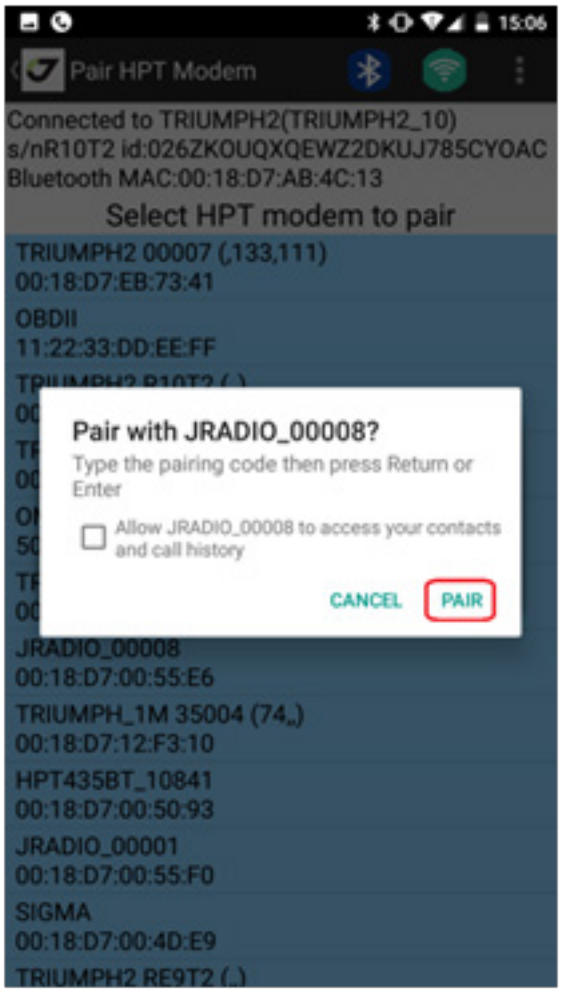
Wait till the connection is established.



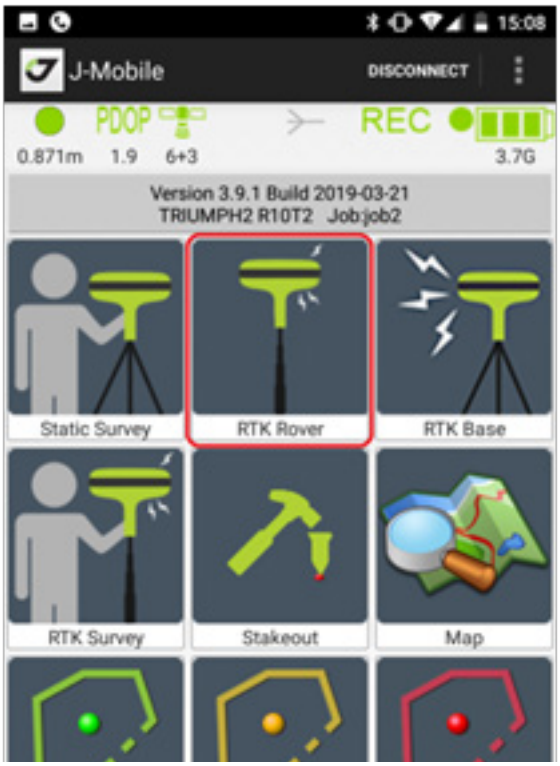
When the connection with TRIUMPH-2 is successfully established, you can connect to the JRadio. Tap on the Radio icon.

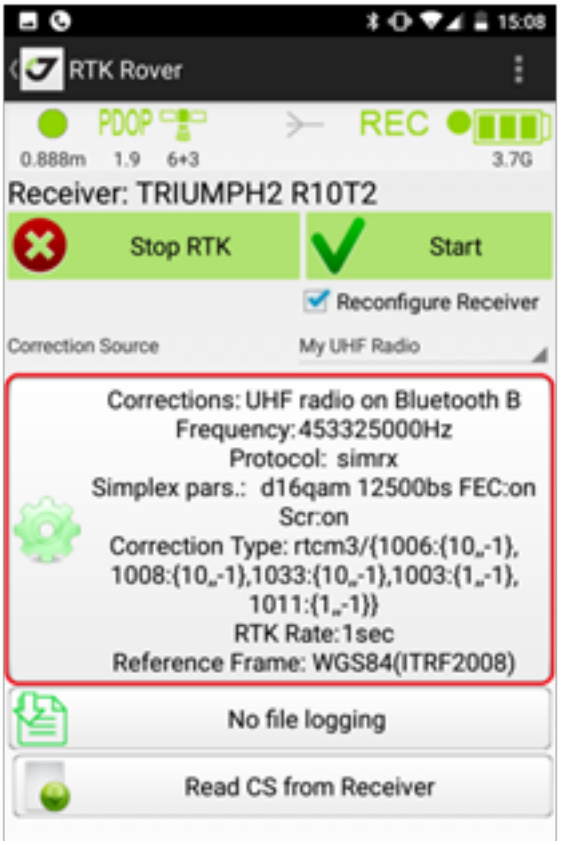
To work with the JRadio, you need firstly to pair it with your TRIUMPH-2. Tap on the Pair Modem icon, select from the available devices the JRadio and then tap PAIR.



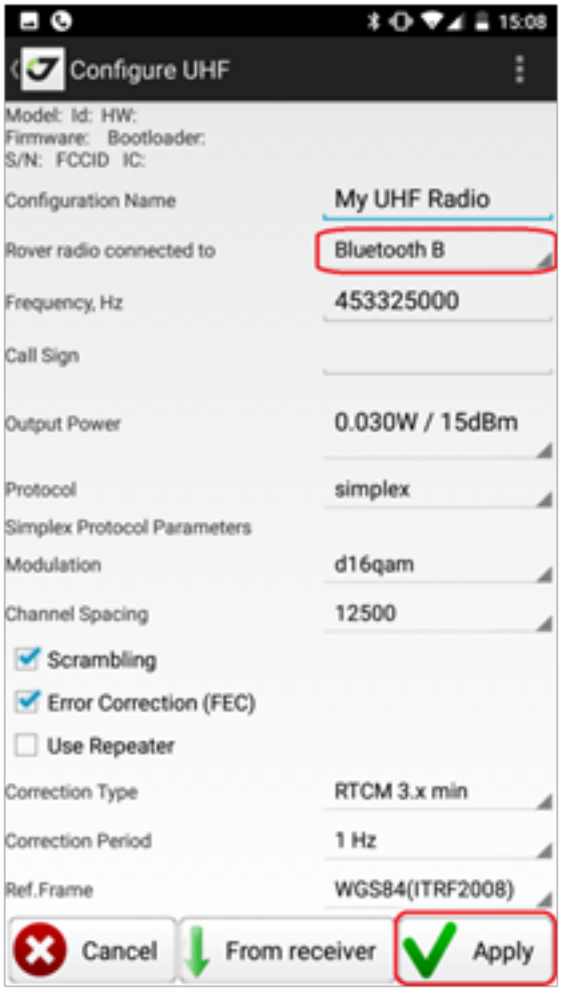


To set up the TRIUMPH-2 as Rover, tap on the RTK Rover icon.

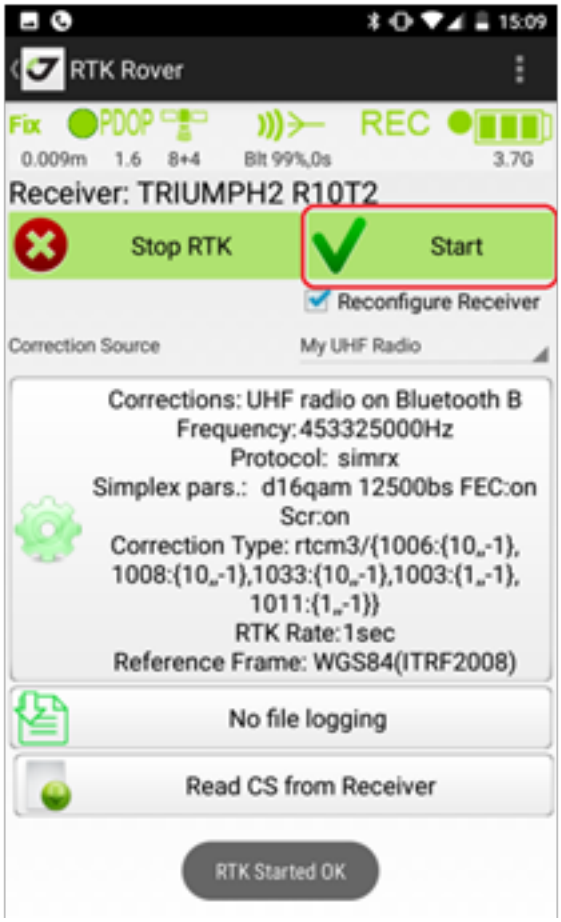




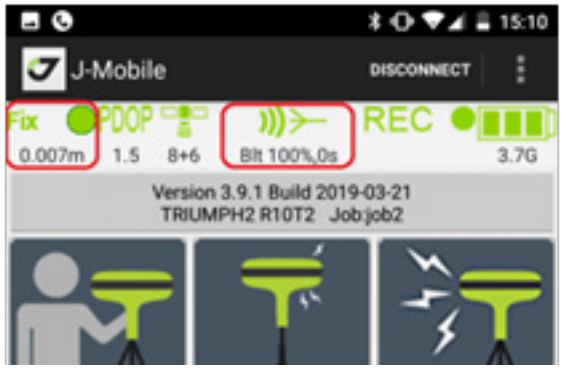
Check the UHF radio settings, and tap Apply to save them and apply.



Tap the Start button to start the RTK Survey.



Check the status of the solution.



Description of buttons and lights

- MicroUSB port is designed to charge the internal battery and communicate with the PC.
- The PWR button is used to turn on/off JRadio.
- The FN button is used to switch between UHF and FH radio, as well as to return the USB and Bluetooth settings to their default values.

Note: By the color of the FN LED you can determine which radio is currently selected. If it blinks green, then UHF radio is selected, if yellow, FH radio is selected.

Resetting the settings helps if JRadio is already connected to one receiver, and you need to pair with another one.

FN button description

The FN button is used to switch between UHF and FH radio and set the USB and Bluetooth settings to default values.

To switch between UHF and FH radio, you need to press the FN button and hold it for a second. At the same time, the FN LED will flash once a second, indicating that the process of switching between the radios has started. After the switching process is complete, JRadio will re-

boot automatically.

To return the USB and Bluetooth settings to the default values, you must: press the FN button and hold it down (approximately 10 seconds) until all the LEDs flash in yellow. After that, release the button and wait for JRadio to reboot automatically.

LEDs description

LED	Symbol	Device State	
PWR		**External Power ON**	**External Power OFF**
		Solid – the battery charger is off.	Blinking every 0.5 second – the battery is near to full discharge.
		Battery charged 100%.	Battery charge less 10%.
		Blinking every 1 second – the battery is being charged.	Blinking every 4 seconds – the battery is being used as power source.
		Battery charging more 75%.	Battery charge less 100%.
		Battery charging from 25% to 75%.	Battery charge from 75% to 25%.
		Battery charging less 25%.	Battery charge less 25%.
TX		**UHF Radio**	**FH Radio**
		Blinking – the radio transmits data.	Blinking – the radio transmits data.
		Output power more 500 mW.	For all output power range.
		Output power from 500 mW to 100 mW.	
		Output power less 100 mW.	
RX		**UHF Radio**	**FH Radio**
		Blinking – the radio receives data.	Blinking – the radio receives data.
		RSSI value from -90 dBm to -20 dBm.	For all RSSI values.
		RSSI value less -90 dBm.	
		RSSI value more -20 dBm.	
BT		Solid – Bluetooth is on.	Blinking – if radio receives or transmits data over Bluetooth.
FN	FN	**UHF Radio**	**FH Radio**
		Blinking every 15 seconds – indicates that UHF radio selected. Blinking every 0.5 second – the switching to FH radio.	Blinking every 15 seconds – indicates that FH radio selected. Blinking every 0.5 second – the switching to UHF radio.

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