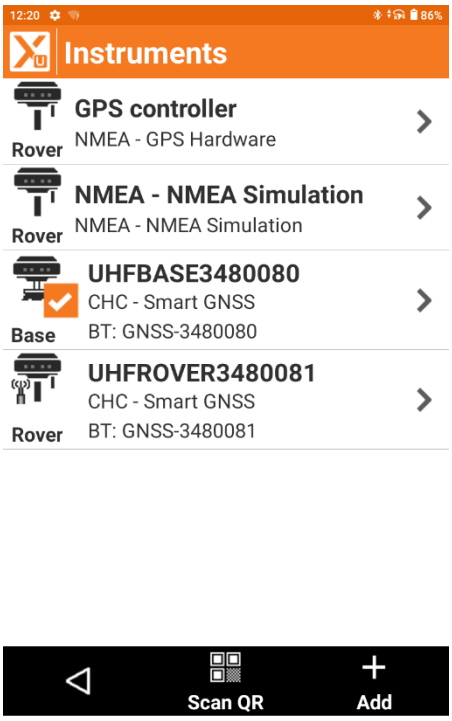
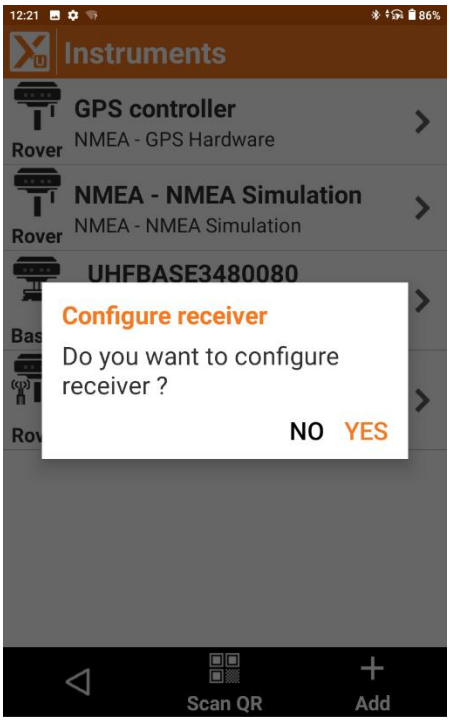
How to Make a Cellular and UHF Connection to the Base in XPAD

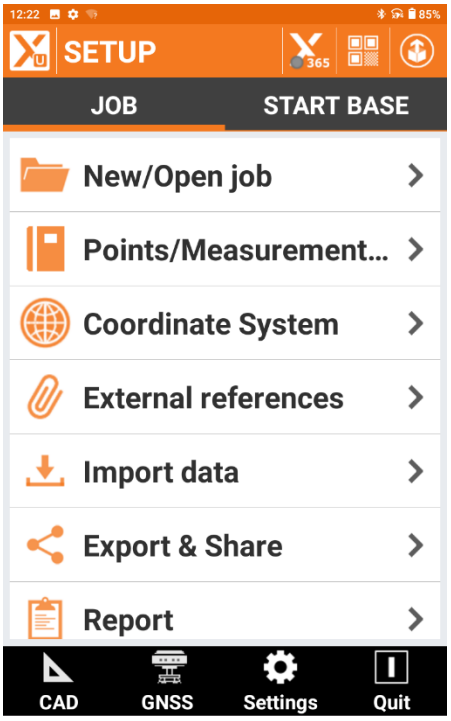
(For Use with Drones and Additional Rovers using NTRIP)



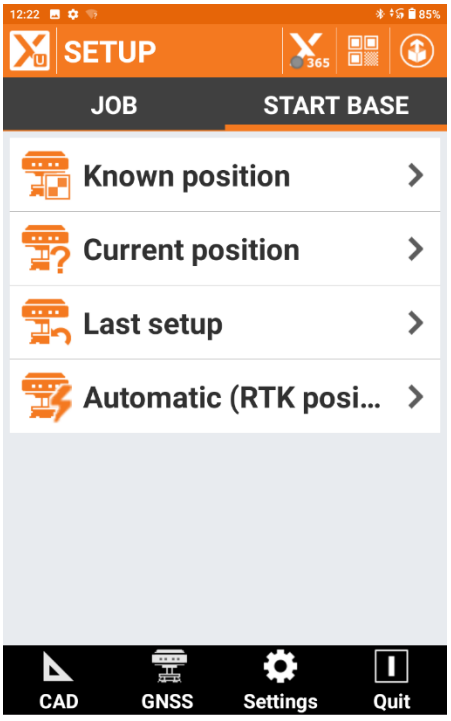

Once a Project has been created in XPAD select Base Receiver Profile.



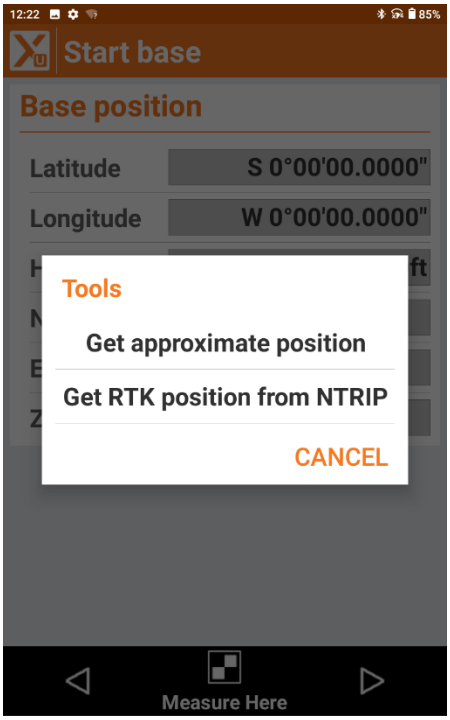

Configure The Base Receiver



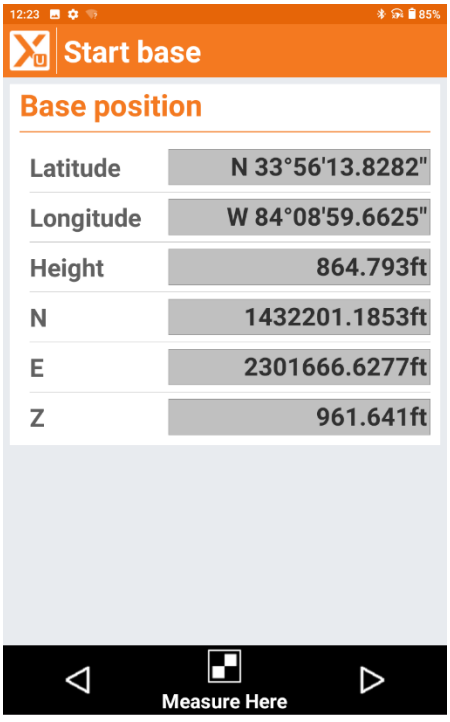

Select Start Base



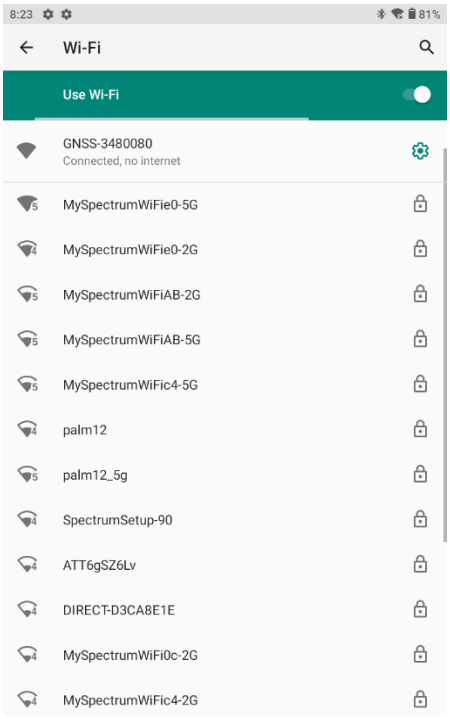

Select Either Known Position or Current Position in Coordinates are not known.



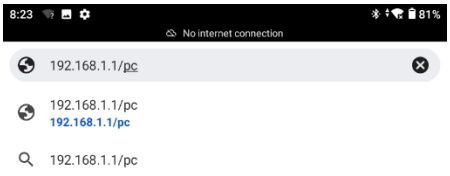

In this Example I have selected Approximate position



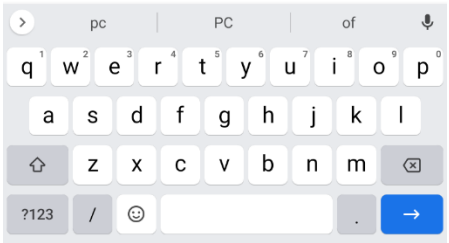

Tap Measure on the bottom of the screen and the Lat/Long, Ellipsoid Height, Northing, Easting, and Orthometric Height will be displayed. Select Next to advance to the Start Base Screen.

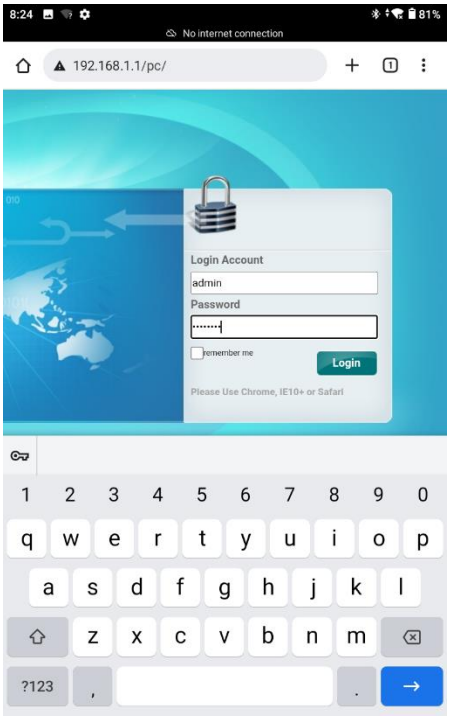



Minimize XPAD and Return to the Device Home Screen. Select Settings and WIFI. Select the Base Receiver (Serial Number will be Displayed). Connect to Receiver as by using the passcode of 1,2,3,4,5,6,7,8.




Open a Browser and Type in the IP Address: 192.168.1.1/pc

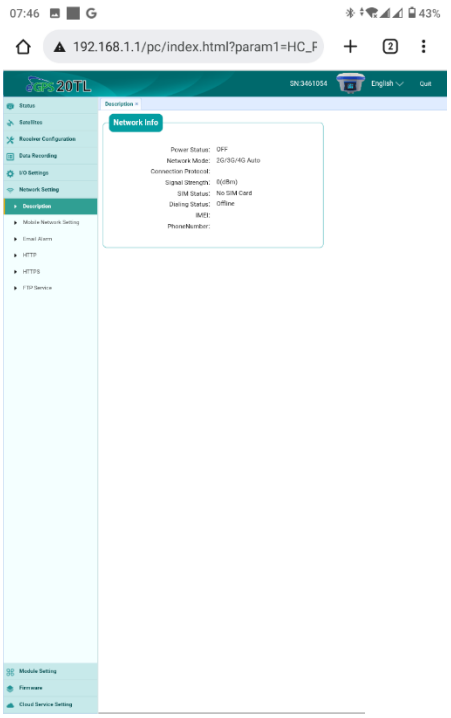





You will now see the Receiver Log in Page.

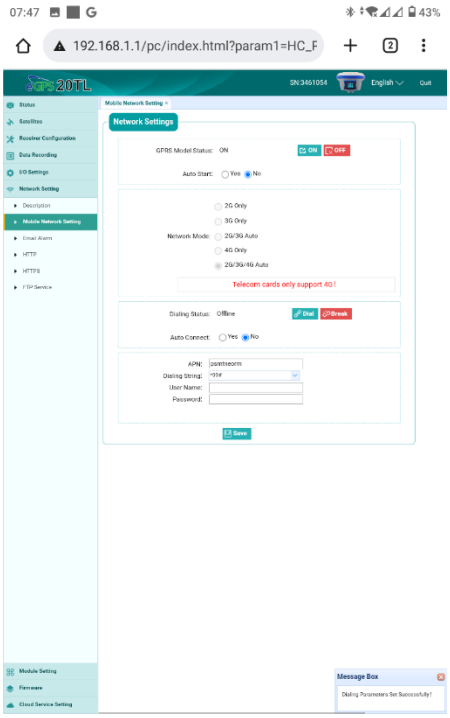
Log In Account: admin

Password: password



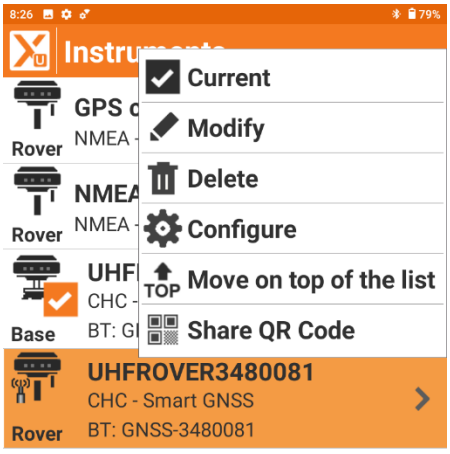

Next Go to Network Setting/Description.

You should see the Modem Turned Off and Not Connected.

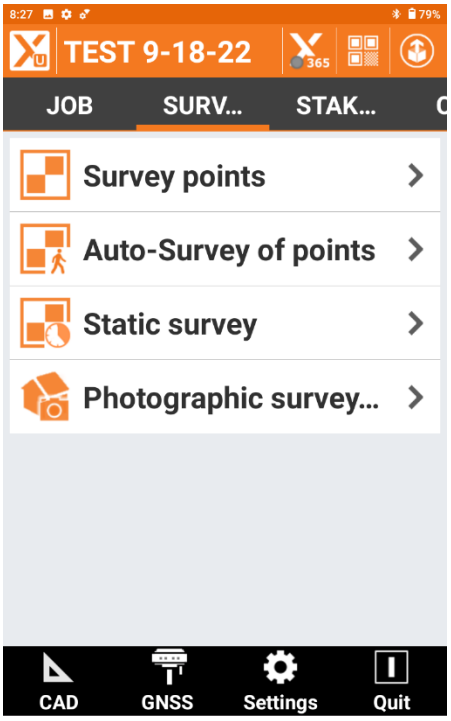



Go to Mobile Network Setting. Turn GPRS On. You will see a message in the lower right corner of the screen when Modem is Active.

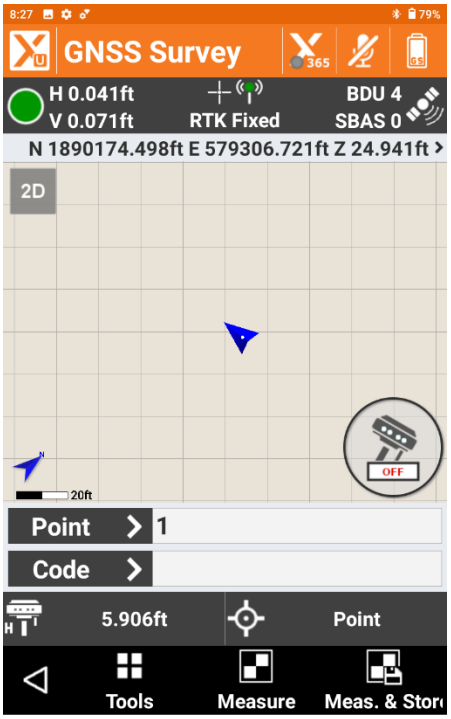
Next Select Dial. You will see the message “Connected” when the cellular Connection is made and you can now close the Web Browser.




Return to XPAD Software and Select the UHF Rover and the Configure.

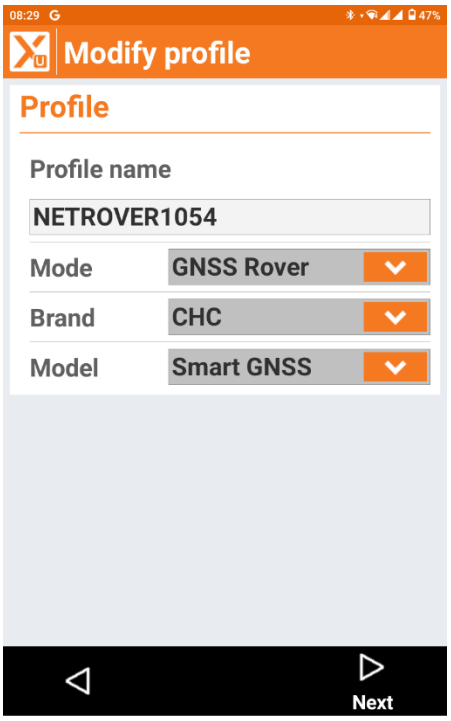



Once the Rover is configured go to Survey and Survey Points.

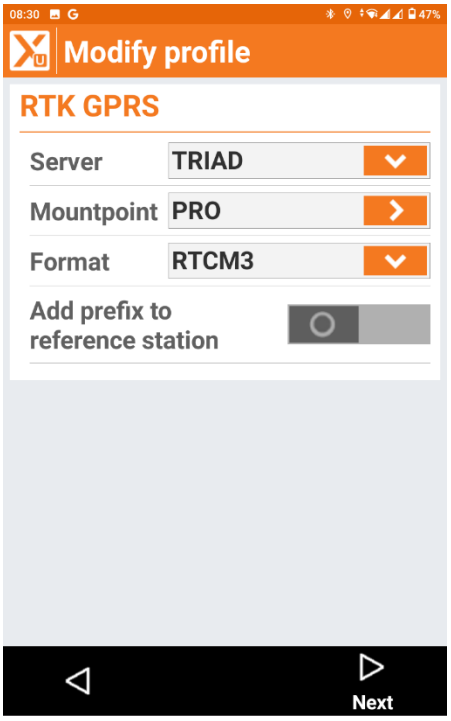



Now you will see the RTK Fixed with Residuals at the top of the Screen signifying the UHF Base and Rover Connection is successful.

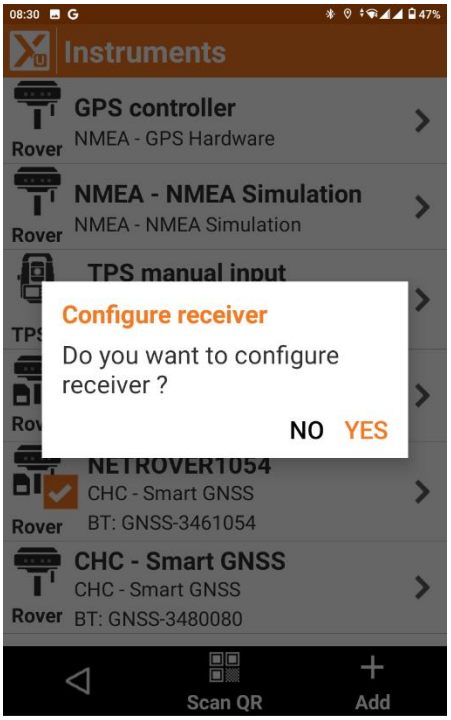
Configuring the Second Rover or Drone Controller Using NTRIP



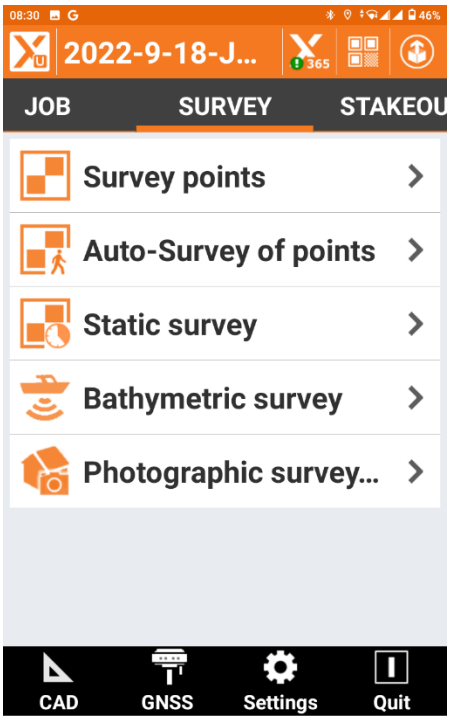

On a second device running XPAD Software or an UAV Controller we will now make an NTRIP Connection. In this example I am using a GNSS Receiver. I have selected my Network Rover.



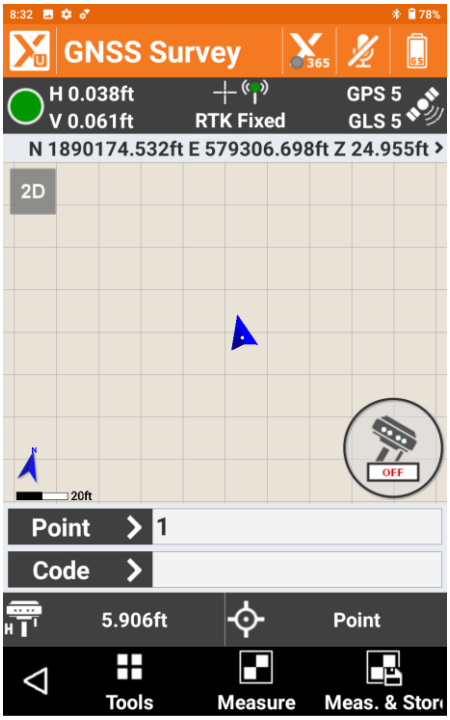

I have created a Server using the IP Address of the Static Sim card in the Base Receiver, Selected the Mount Point, and the Message Type (Format).




I then Scroll using the Next Command until I see the Configure Receiver Screen and select Yes.




I then Select Survey and Survey Points.




I then see the Survey Screen showing RTK Fixed and my Residuals on the Top of the Screen.

We have now made a UHF Connection with a Base and Rover and also made a Rover Connection to the same Base receiver using a Cellular Modem Connection.