

How to achieve WIFI Client (Datalink) to receive RTK corrections from your Android or Windows device

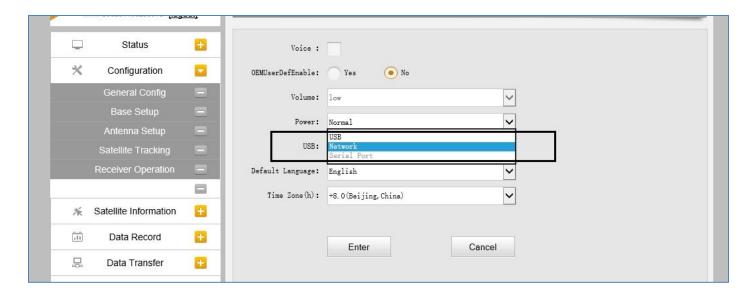
Note: Your device should be connected to cellular network

WIFI client means the WIFI function will work as a datalink for receiver that it is able to connect to the other hotspot, access to the internet, and captures corrections from CORS station. Here we will introduce how to setup the WIFI client by switching from WIFI AP (User Interface).

Since the WIFI hotspot (AP) is the default WIFI mode on SXBLUE PREMIER receiver, and the WIFI AP mode and WIFI client mode can't exist at the same time, therefore, WIFI client mode must be activated by switching from WIFI AP mode to the datalink WIFI Client mode.

On this mode, the micro USB port of SXBLUE PREMIER receiver must work as an Ethernet port (Linux USB Ethernet/Remote NDIS based Device), then internal web UI shall be accessed via micro USB cable connected to computer. Prior to connect receiver to a computer, a corresponding network driver is required and need to be installed on the computer, then this function could be activated.

For this setup, you need to make sure change the USB mode is set to Network use instead of USB. The USB is usually selected for user who are logging RAW data and transfer file with USB cable such as a memory device. Connect the receiver using WIFI (Web UI), then select *Configuration--System Setup--USB* and finally select *Network*.

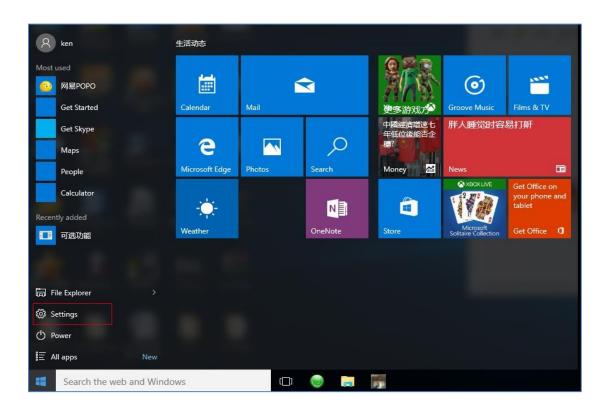


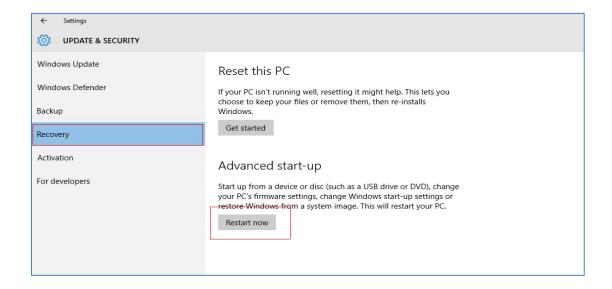
Disable driver signature enforcement.

Unsigned driver is not available in the WIN 10 system, which can lead to problems with some hardware, need to close the Windows default driver. Steps as shown below:



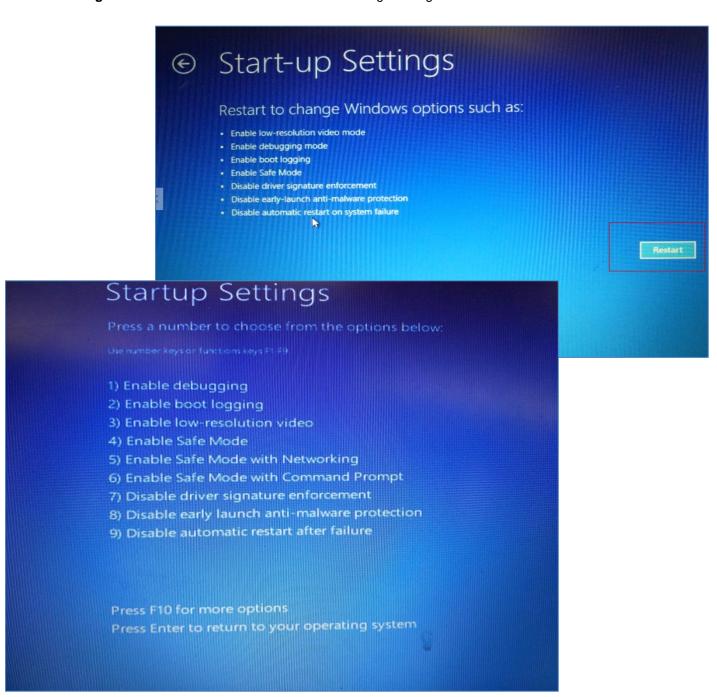
Press on up option.
Press on icon → Settings → Update& security → Recovery to choose Restart now in Advanced Start-up option.







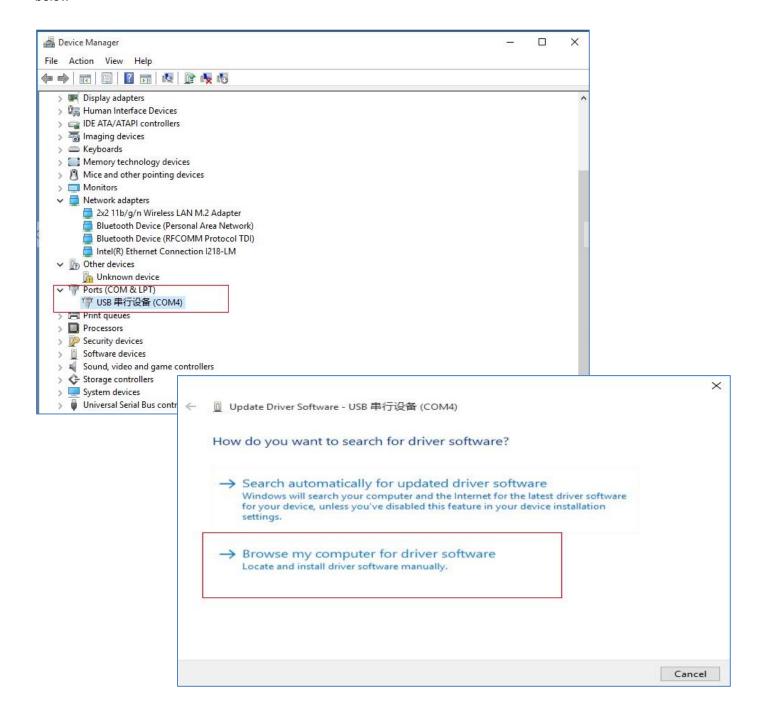
- 2. Enter Choose an option interface automatically. Select Troubleshoot → Advanced options → Start-up Settings press on Restart button to restart computer. See figure below.
- 3. Select **Start-up Settings** interface automatically after restarting, and press **F7** key on computer keyboard to choose **Disable driver signature enforcement**. Wait until finish restarting. See figure below.



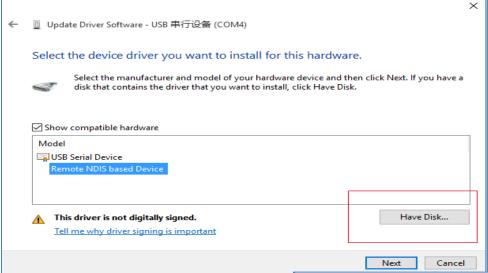


Update Driver Software

- 4. Connect the receiver to computer via a micro USB cable after restart-up. Then open the **Device Manager** in win 10 computer to choose **Ports(COM&LPT)** option. See figure below
- 5. Right click on the option under ports(COM&LPT) menu bar →Update Driver Software →Browse my computer for driver software →Let me pick from a list drivers on my computer → Have disk to choose the driver file . See figure below

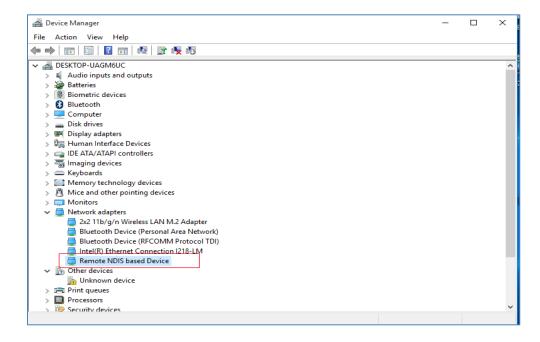






6. Press **Next** button to install the driver. If the driver has been successfully installed, the micro USB port of the receiver will be recognized as **Linux USB Ethernet/Remote NDIS based Device** in Network adapters, and a local area connection will generate in Network Connections on the computer. See figure below







Login the Web UI of SXBLUE PREMIER via micro USB cable, input IP 192.168.155.155 into address bar of IE browser, then input username and password for login to the server.

Go to Configuration—General Config, switch the working mode into Rover, and datalink as WIFI, press on

Enter

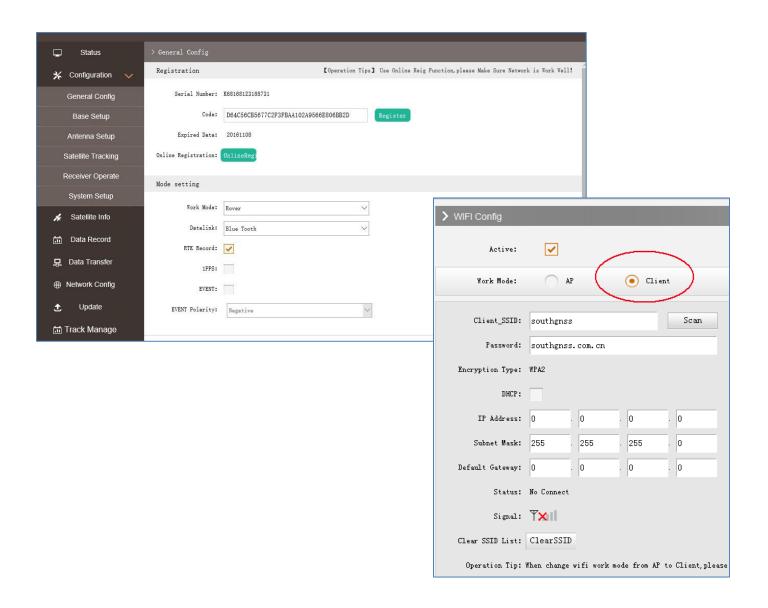
button (bottom of the page) to confirm the settings.

Unfold the sub-menus under Network Config, and go to WIFI Config, switch the WIFI Work Mode from AP into Client,

then click on



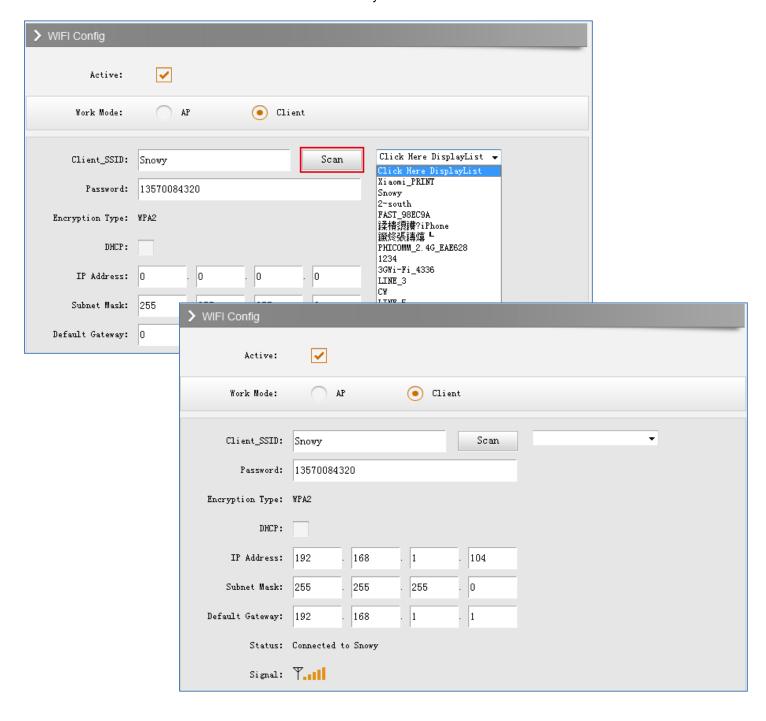
button (bottom of the page) to make sure the WIFI working mode is successfully switched.





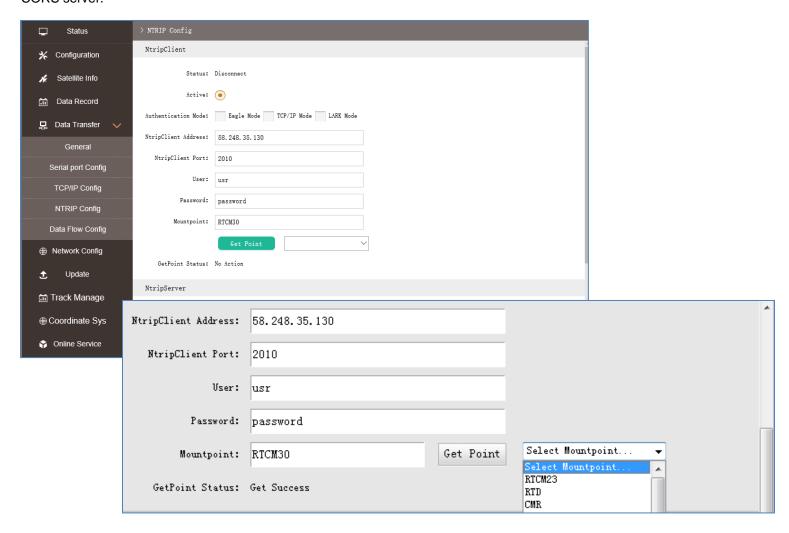
At this point, press on Scan button to search the surrounding WIFI hotspot, once finish searching the hotspots, choose one of the proper access point and enter the access password if required, then press on button (bottom of the page) to confirm the settings on this page.

After a while, the WIFI signal bar appears and a LAN IP address is obtained, that indicates that SXBLUE PREMIER has connected to the WIFI and had an access to internet already.





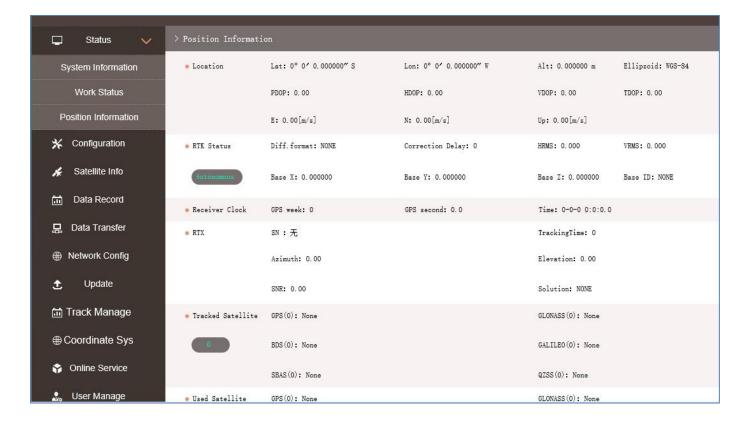
After that, move steps to *Data Transfer—NTRIP Config*. At this moment, make sure NtripClient is activated, then input the CORS access information into corresponding fields, click on CORS server.



List out the mount points and choose a proper one, then click on Enter button to confirm all settings, and the receiver begins to connect and logon server, receive correction from CORS station.

Return to **Status—Position Information** page, check on the displayed information including coordinates, solution, correction format, as well as to the correction delay. If the receiver has connected to internet and obtained correction from CORS server, there will be Fixed displays for the solution. See figure next page





At this time, connect receiver to controller software, you don't need to do anything for configuration, then use the receiver to work with RTK solution directly. The receiver will keep this configuration for the next working sessions.