

# Using the NTRIP Caster on an iG9 Receiver

Date: 8 October 2021

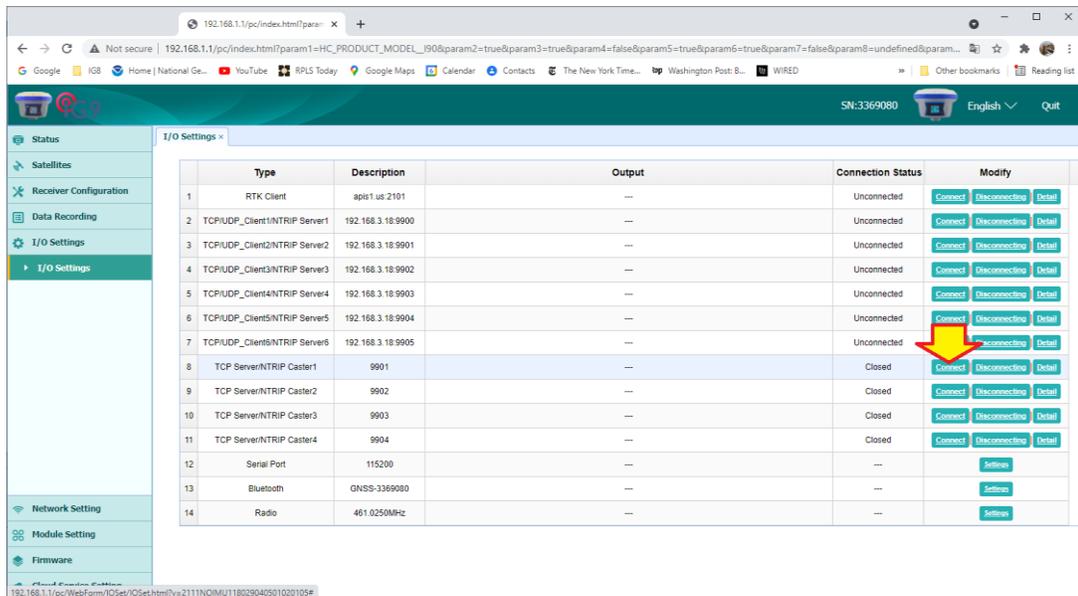
## Thesis

Configure the internal NTRIP caster on an iG9 to broadcast corrections via a Wi-Fi connection.

## Setup

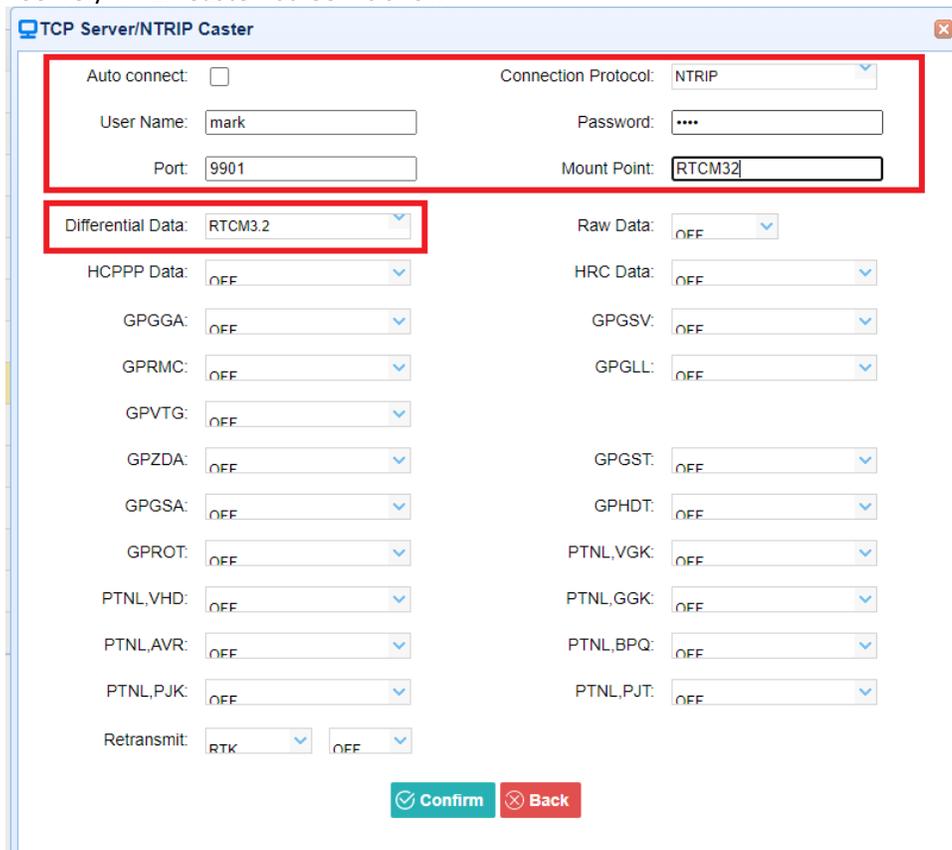
Connect to the iG9 using the Wi-Fi interface using the instructions in the iG9 User Manual. After you log in it will look like this:

1



Click on the 'Connect' button for one of the NTRIP Casters as shown above.

The 'TCP Server/NTRIP Caster' screen is shown:



2

Set:

- Connection Protocol                      NTRIP
- User Name and Password                (something clever, I used 'mark' for both above)
- Port    unused, 9901 is a reasonable choice
- Mount Point                                 name the mount point to match the correction message type
- Differential Data:                         usually RTCM3.2

Click on Confirm.

The port will now display as 'opened':

7	TCP/UDP_Client6/NTRIP Server6	192.168.3.18:9905	---	Unconnected	<a href="#">Connect</a> <a href="#">Disconnecting</a> <a href="#">Detail</a>
8	TCP Server/NTRIP Caster1	9901	Differential Data:RTCM3.2	Opened	<a href="#">Connect</a> <a href="#">Disconnecting</a> <a href="#">Detail</a>
9	TCP Server/NTRIP Caster2	9902	---	Unconnected	<a href="#">Connect</a> <a href="#">Disconnecting</a> <a href="#">Detail</a>

Configuration is complete and will remain available/active until you change it or do a factory reset on the head.

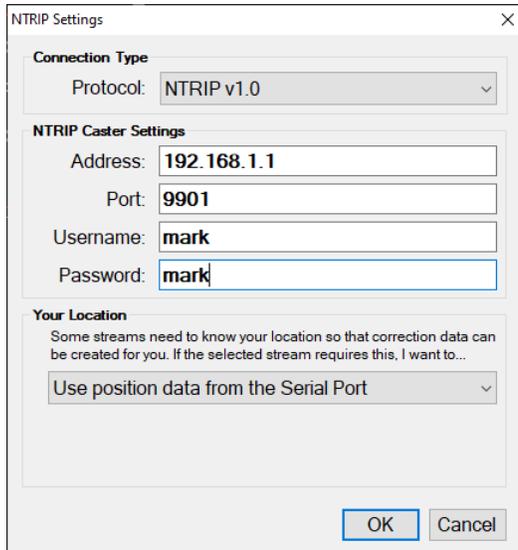
## Configure the Receiver as a Base

Setup the head as a Base using Carlson SurvCE/SurvPC, X-PAD, Field Genius, LandStar7 or the Web interface directly.

The Base position that you enter when configuring the receiver as a Base must be within 500 meters of it's true location and it would be best if it is correct if you don't want to have to correct the UAV positions later.

## Check Configuration

I like to use the *LaFebure NTRIP Client* to test the connection. Here is how to setup the client to connect to the head, here is the configuration for the setup above:



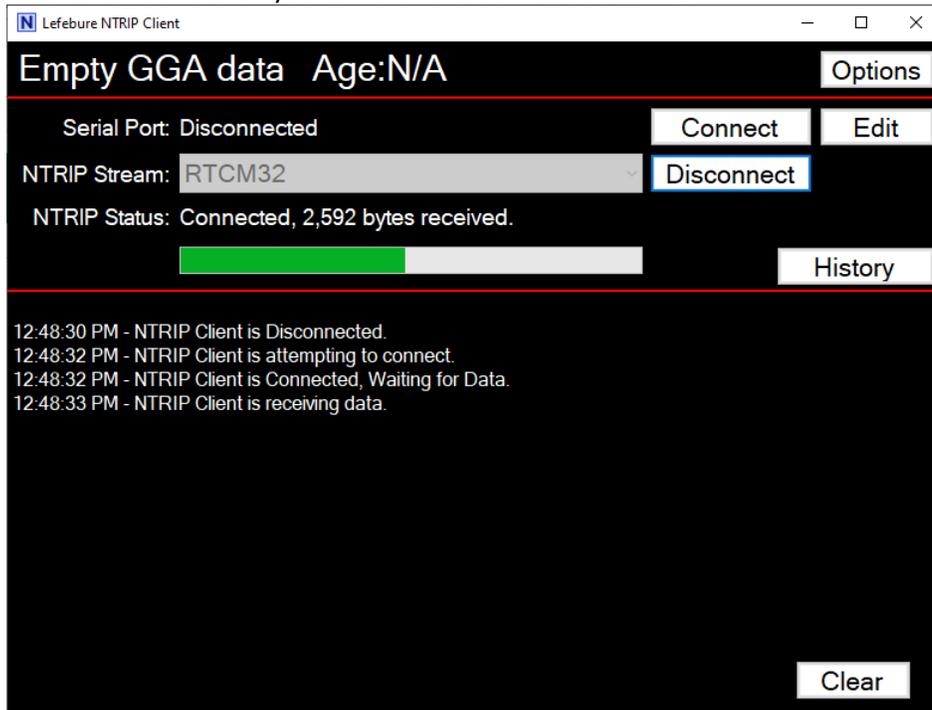
The screenshot shows the 'NTRIP Settings' dialog box with the following configuration:

- Connection Type:** Protocol: NTRIP v1.0
- NTRIP Caster Settings:**
  - Address: 192.168.1.1
  - Port: 9901
  - Username: mark
  - Password: mark
- Your Location:** Use position data from the Serial Port

Buttons: OK, Cancel



Once configured download the mount table (the only entry will be 'RTCM32'), select the NTRIP Stream Mount Point and then you can click the Connect button:



The screenshot shows the 'Lefebure NTRIP Client' interface with the following information:

- Empty GGA data Age:N/A
- Serial Port: Disconnected (Buttons: Connect, Edit)
- NTRIP Stream: RTCM32 (Buttons: Disconnect)
- NTRIP Status: Connected, 2,592 bytes received.
- Progress bar: A green bar indicates data reception.
- History: 12:48:30 PM - NTRIP Client is Disconnected.  
12:48:32 PM - NTRIP Client is attempting to connect.  
12:48:32 PM - NTRIP Client is Connected, Waiting for Data.  
12:48:33 PM - NTRIP Client is receiving data.
- Buttons: Options, History, Clear



Correction data will begin streaming. Congratulations, any device that connects to the head will have access to the correction stream.