



TRI-GLOBAL
TECHNOLOGIES



TECHNICAL SUPPORT DOCUMENTATION

Connecting to RTK Networks in Orbitas

How to Connect an RTK Network to Orbitas to
Collect with Asteri GNSS Receivers



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Related Resources

- [Introduction to the Asteri GNSS Receiver](#)
- [Pairing to an Asteri GNSS Receiver](#)
- [Pairing an Asteri Receiver to Orbitas](#)
- [Precise Point Positioning: A Blessing and a Curse](#)

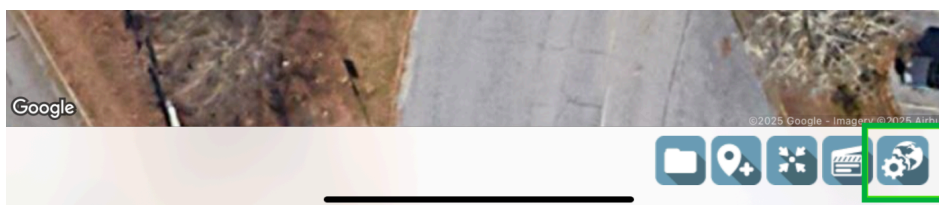


Important Information

- RTK corrections require an internet connection.
- Tri-Global recommends setting up RTK corrections within Orbitas before launching your preferred collection application.

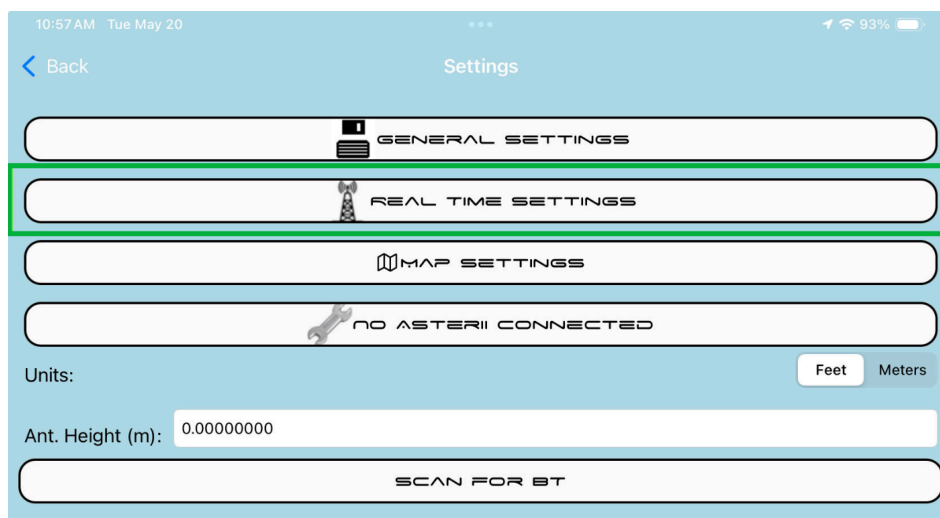
Connecting to RTK Networks in Orbitas (iOS)

1. Connect your device to your Asteri receiver. For complete instructions, please read [Pairing to an Asteri GNSS Receiver](#).
2. Launch the Orbitas application and ensure the Asteri is connected and tracking satellites.
3. Click **SETTINGS** from the map window.



Click Settings from the Map Window

4. Select **REAL-TIME SETTINGS**.



Select Real-Time Settings from the Settings Window



5. In the NTRIP Settings page, complete the following fields:
1. IP Address: The address of your RTK server given by your RTK provider.
 2. Port: The port number assigned by your RTK provider.
 3. User: The username assigned by your RTK provider.
 4. Password: The password assigned by your RTK provider.
 5. Mounting Point: The available list of mounting points. Refer to your RTK provider for more details.

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NTRIP Settings

IP: truerk.pointonnav.com

Port: 2101

User:

Password:

Enable NTRIP: ☐

Atlas Settings:

Mounting Point:

- AUTO
- LOCAL
- POLARIS_LOCAL
- POLARIS

Send Code

Select a Mounting Point



6. RTK Connection Status: This will display “Connected” once NTRIP is enabled.
 7. Enable NTRIP: Toggle once all of the information above has been completed.
 8. Atlas Settings: Enter your Atlas H10 activation code, if applicable.
6. The final field on the NTRIP Settings window is the RTK Log. This is where your NMEA data stream will appear once connected.

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NTRIP Settings

IP: truertk.pointonnav.com

Port: 2101

User: ●●●●

Password: ●●●●●●●●

AUTO

Connected

Enable NTRIP ☒

Atlas Settings:

Send Code

\$GPGGA,125725.00,3356.7154959,N,08328.2537389,W,4,24,0.7,224.0780,M,-30.627,M,1.0,0888*4C
\$GPGGA,125726.00,3356.7154957,N,08328.2537391,W,4,24,0.7,224.0771,M,-30.627,M,1.0,0888*46
\$GPGGA,125727.00,3356.7154959,N,08328.2537386,W,4,24,0.7,224.0799,M,-30.627,M,1.0,0888*49
\$GPGGA,125728.00,3356.7154961,N,08328.2537399,W,4,24,0.7,224.0789,M,-30.627,M,1.0,0888*42
\$GPGGA,125729.00,3356.7154948,N,08328.2537391,W,4,24,0.7,224.0818,M,-30.627,M,1.0,0888*47

Asteri: RTK

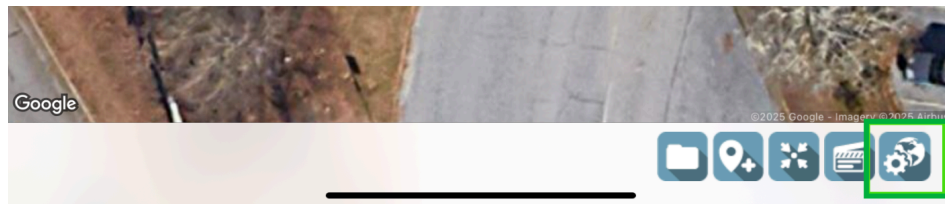
NTRIP Settings Page: Connected to RTK



Connecting to Orbitas Correct in Orbitas

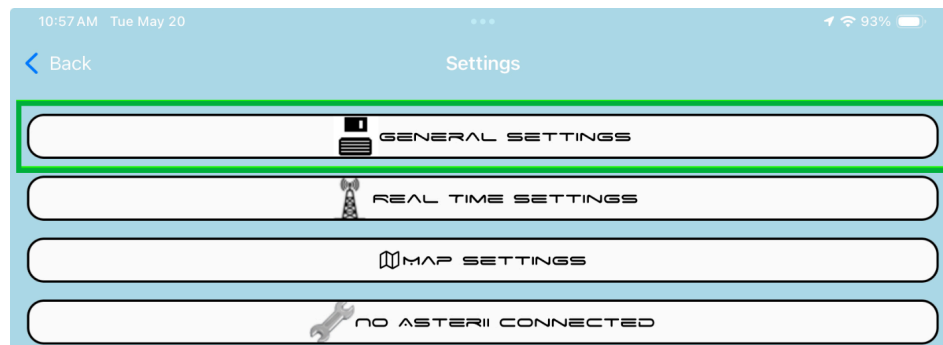
Selecting a Reference Frame for Orbitas Correct

1. Log in to Orbitas. If you have an active Orbitas Correct subscription, it will automatically be applied upon logging in to Orbitas.
2. Navigate to **SETTINGS** from the map window.



Navigate to Settings from the Map Window

3. Select **GENERAL SETTINGS** from the Settings window.



Select General Settings from the Settings Window

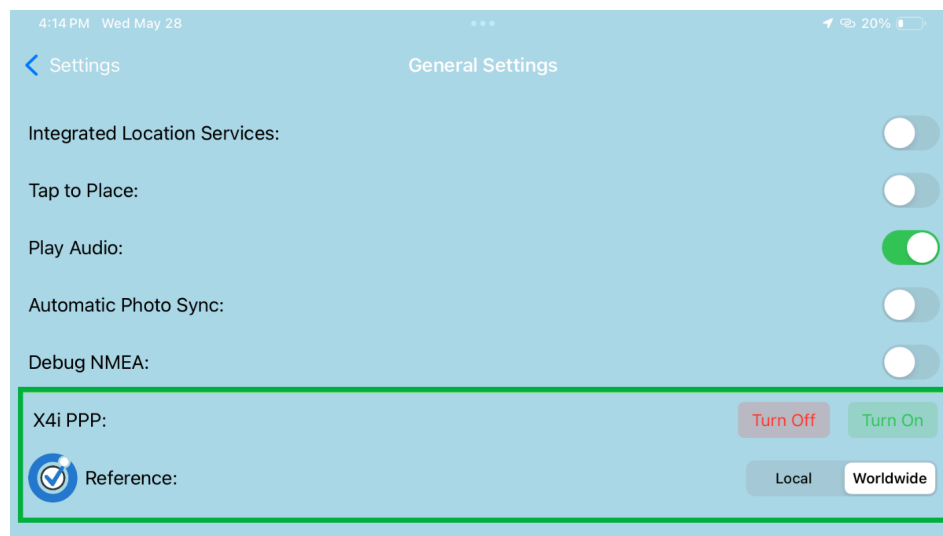
4. **Toggle PPP** (Precise Point Positioning) service on or off.
 - a. PPP is an exclusive service for the Asteri X4i. If you're not sure what Asteri model you have, please refer to our support documentation, [Introduction to the Asteri GNSS Receiver](#).
 - b. PPP is a satellite-based service that does not require an internet connection.
 - c. Tri-Global does not recommend enabling PPP for most users as the time to fix can be quite long, especially for users around sources of multipath.



- d. For more information about the PPP service, we recommend reading our article [Precise Point Positioning: A Blessing and a Curse](#).

5. Select your reference frame.

- a. The default and recommended reference frame while using Orbitas Correct is WORLDWIDE (WGS84).
- b. The Local (NAD83 2011) reference frame is recommended for use to align data that has been collected using NAD83 2011 datum. If you're unsure what datum your collected data is in, we may be able to help. Please reach out to our support team at support@triglobal.net.



Toggle PPP On or Off and Select a Reference Frame (General Settings Window)

Using Orbitas Correct with Third-Party Collection Software

If you're using our Orbitas Correct RTK service with any of our integration partners (Futura FieldPro, Milsoft FieldSyte, ArcGIS Field Maps, et al.), please continue reading.

1. Complete all steps from the section titled [Connecting to Orbitas Correct in Orbitas](#).



2. With Orbitas still running in the background, launch your preferred data collection software. Orbitas Correct RTK corrections should be automatically applied as you collect.