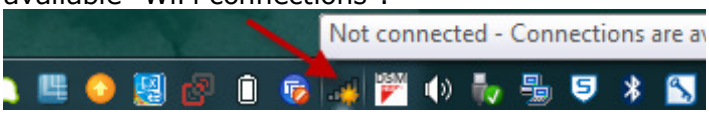
# Zenith35 OPUS Guide

Connect to the Zenith35 using the **Z35WEBMANAGER**

The GeoMax Z35WebManager (web application) is comparable to the conventional "GeoMax Assistant" that allows to configure and to modify multiple settings at the Zenith35 receiver. Furthermore data can be downloaded or receiver, radio, ME and/or GSM firmware can be uploaded.

## SEARCH FOR YOUR ZENITH35 RECEIVER

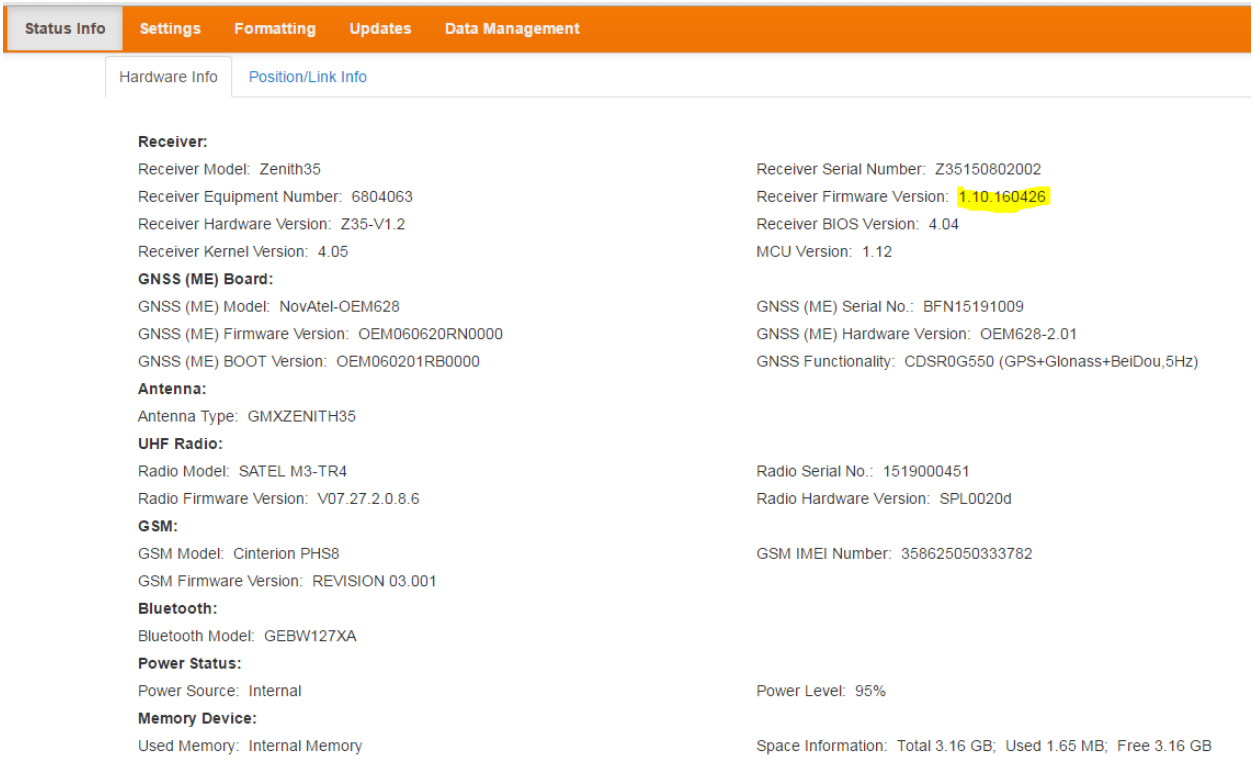
Make sure that the wireless modem on your PC is turned on and you are able to search for available "WiFi connections".




Now you can search the Zenith35 WiFi (with your PC or mobile phone) which is corresponding to the serial number of the Zenith35.

| Step | Description |
|---|---|
| 1. | Turn on the Zenith35 instrument. |
| 2. | Make sure your Wi-Fi on your PC/mobile device is turned on. Search for available connections. |
| 3. | When the instrument is found, connect it to your PC/mobile device. |
| 4. | As soon as the connection is established, start the web browser. Enter into the address bar the IP http://192.168.10.1. A login-window pops up. |
| 5. | Enter user name and password. The default values are:<br>• User name: admin<br>• Password: password |
| 6. | After a successful login the info start screen of the Z35WebManager will appear and the instrument can be accessed. |

Under Status Info-Hardware Info, check that your Receiver Firmware is 1.10.160426 or higher.

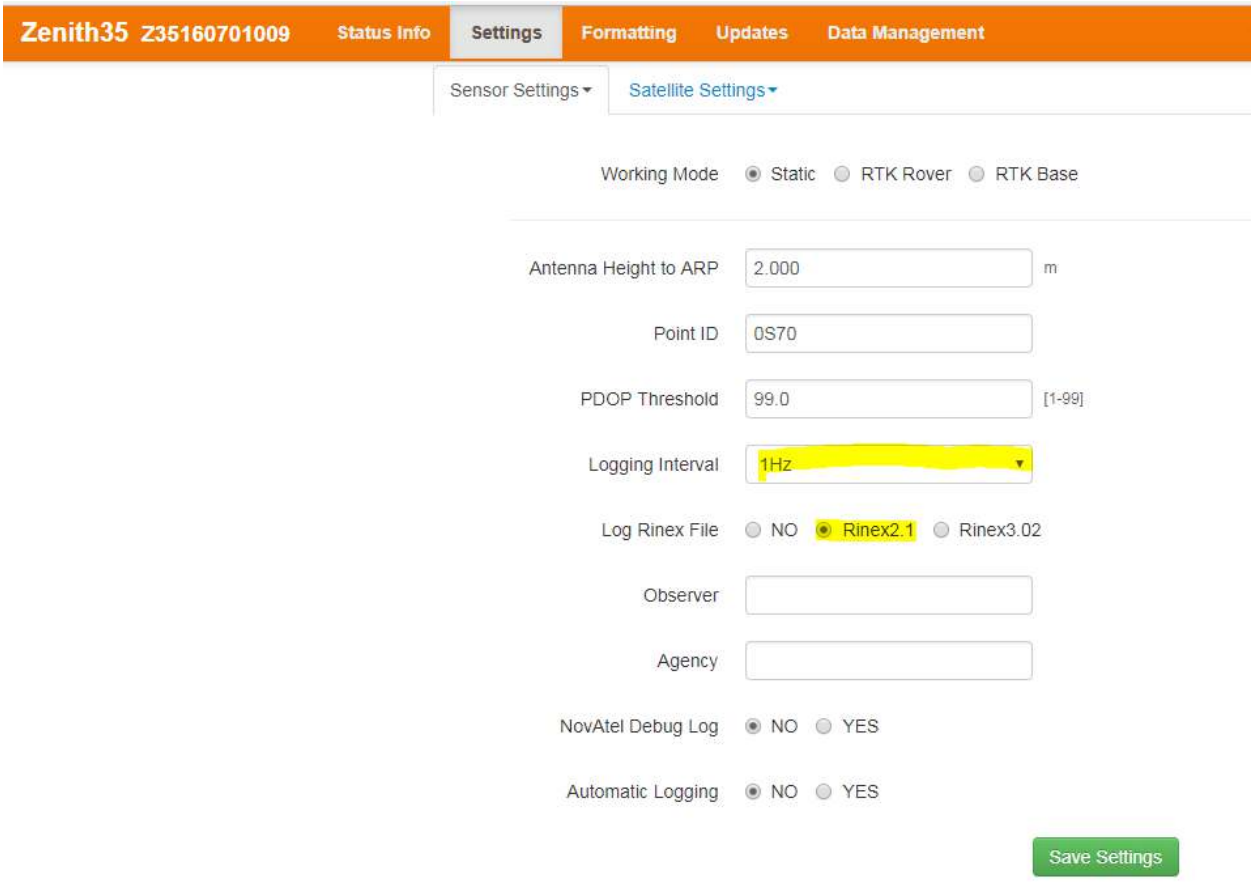



Under Settings-Sensor Settings, verify the following settings:

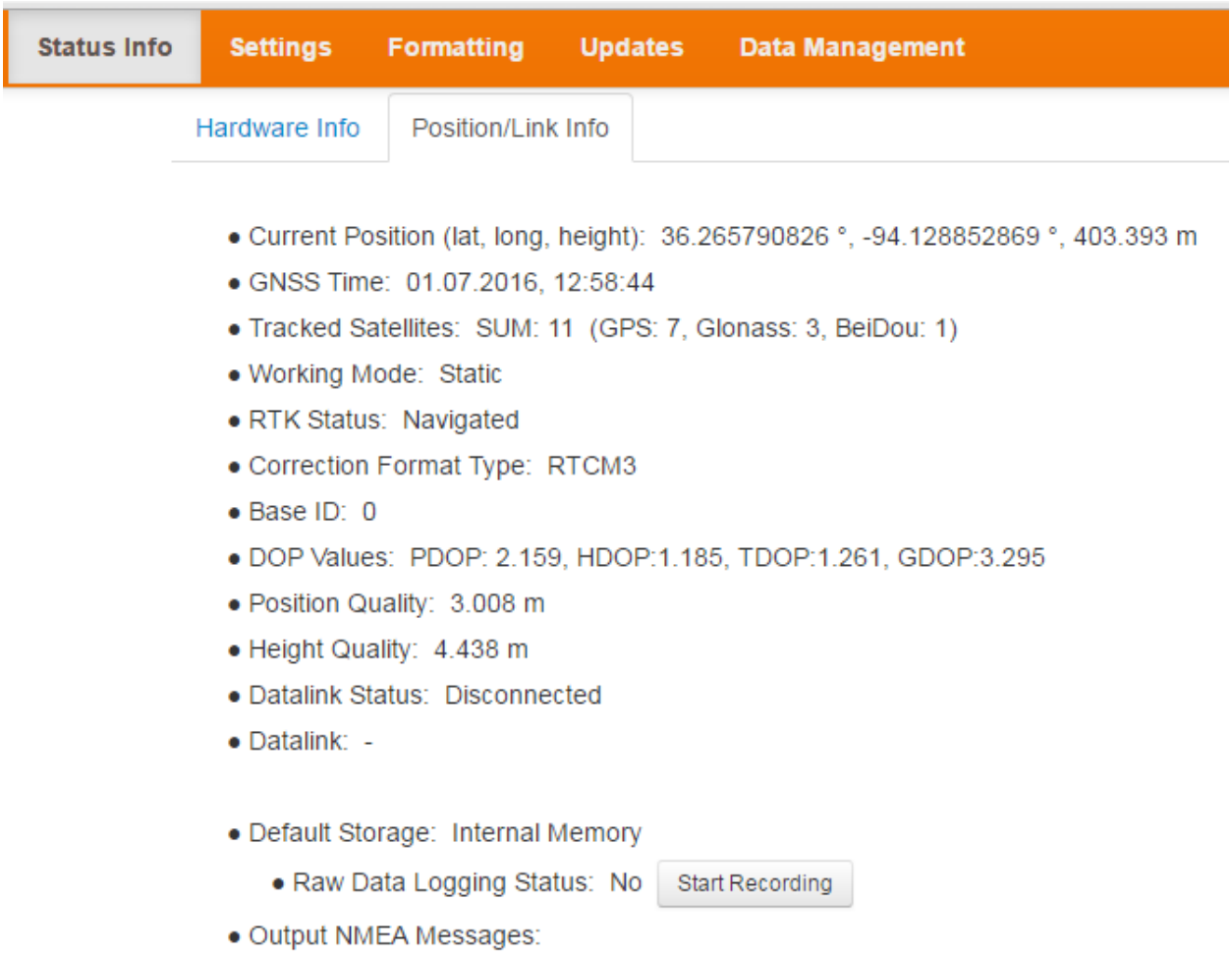
Working Mode Static

Antenna Height to ARP Your measured height in meters to the base of the Zenith35 threaded mount

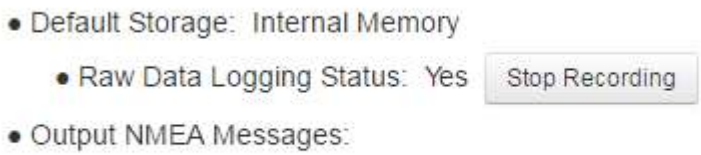
Point ID A four digit alphanumeric ID of your choice
PDOP Threshold Leave at default value of 99.0
Logging Interval 1HZ
Log Rinex File Set to Rinex2.1
Observer and Agency Can leave blank
Automatic Logging No
Then press "Save Settings"



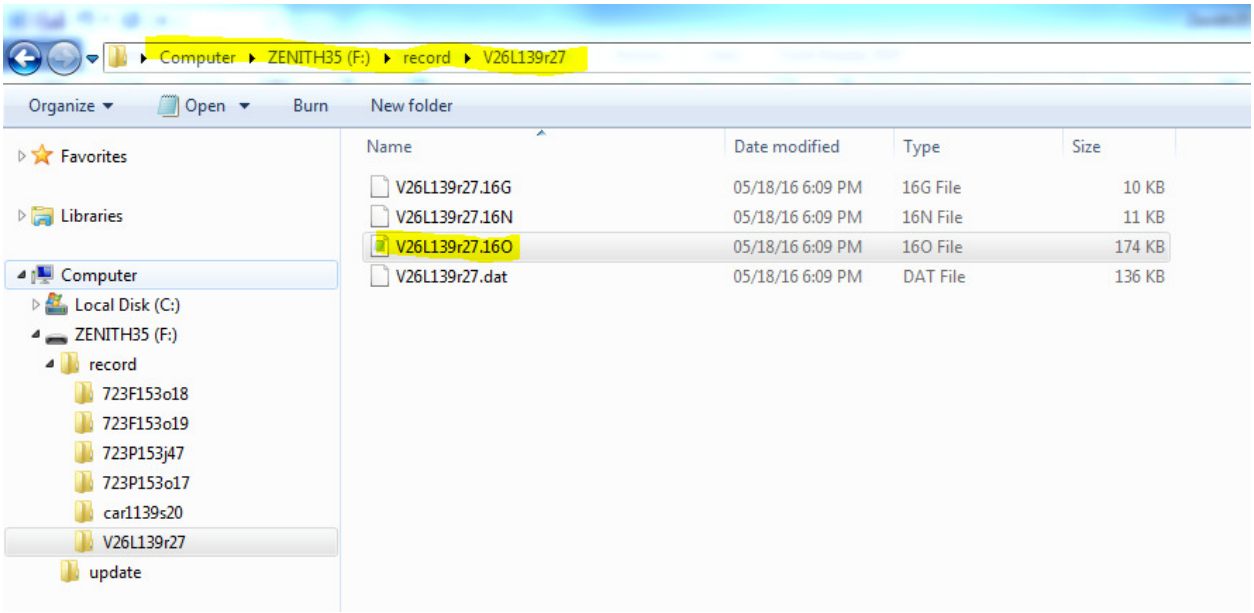

To start collecting static data, go to Status Info-Position/Link Info. Wait until receiver is tracking enough satellites, and then press "Start Recording" button and button will change to "Stop Recording". Wait 15 minutes to 2 hours for a rapid static file for OPUS, or 2 hours to 48 hours for static file for OPUS.




When sufficient time has passed, press the stop recording button.




Connect the Zenith35 to your computer with the part number 832482 ZDC509 USB cable and browse to the folder where you stored your data. Copy and paste the .16O file to your PC on your "C" drive in a location you can find it later. The number may be different, the file with the "O" ending is the RINEX file.




Open your internet browser on your PC and go to the NGS OPUS page.
Browse your PC for the file you stored.
Select the GMXZENITH35 antenna from the list.
Enter your Antenna Height in Meters
Enter your Email address that you want the report sent to.
Press either the Rapid-Static or Static button depending on the length of occupation for your file and wait for your results to be emailed to you.
Tips: Wait 24 hours or longer after collecting your data to send it to OPUS for better results.

Make sure your Email Spam filter doesn't block the report from getting back to you.

https://www.ngs.noaa.gov/OPUS/ | OPUS: the Online Positioni...

# OPUS: Online Positioning User Service

National Geodetic Survey

NGS Home | About NGS | Data & Imagery | Tools | Surveys | Science & Education

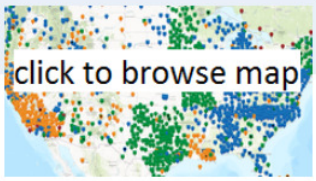
**OPUS menu**

- upload
- about OPUS
- projects
- shared solutions
- support / feedback

[ ✓ ] new shared solution map

Reminder, a **new map for shared solutions** is in BETA.

To learn more, **watch the webinar** & **give feedback**. (**about sharing**)




## Upload your data file.

Solve your GPS position & tie it to the National Spatial Reference System. **What is OPUS?** **FAQs**

Browse...

* **data file** of dual-frequency GPS observations. **sample**

GMXZENITH35 NONE Internal geodetic antenna,

**antenna** - choosing wrong may degrade your accuracy.

2.00 *meters above your mark.*

**antenna height** of your antenna's reference point.

SupportUS@geomax-positioning.com

* **email address** - your solution will be sent here.

Options to **customize** your solution.

Upload to Rapid-Static for data 15 min. - 2 hrs.

Upload to Static for data 2 hrs. - 48 hrs.

* required fields

We may use your data for internal evaluations of OPUS use, accuracy, or related research.