Zenith35
First Steps

Video
https://youtu.be/M6D_NgtS8EU

Topics

- **Introduction**
- **Z35 first steps**
  - Web interface connection
  - Firmware upgrade
  - UHF Settings
  - License installation
  - Antenna file upload
- **Z35 field sw configuration**
- **Z35 safe mode feature**

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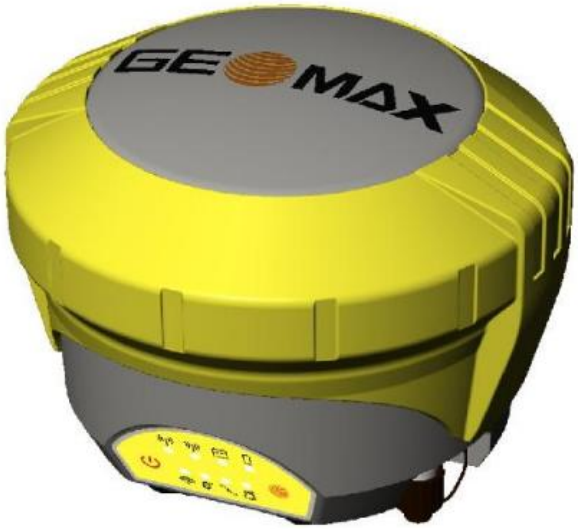
Needed equipment

- Zenith35 GNSS receiver
- Device with Wi-Fi connection (PC, smartphone, etc..) to access web interface
- Web browser (IE, Chrome, Firefox, etc..)
- GeoMax Partner area login



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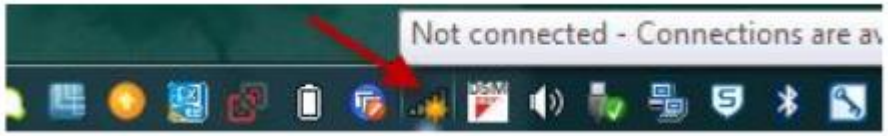
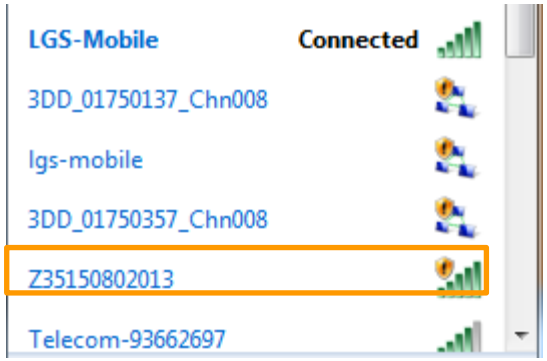
Web interface

- To access to the web interface the device (PC, smartphone, controller, etc..) must connect to the Z35 Wi-Fi network
- Search for Z35 Wi-Fi network (it is named with Z35 serial number)





- Connect to the Wi-Fi network and open an internet browser

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Web interface

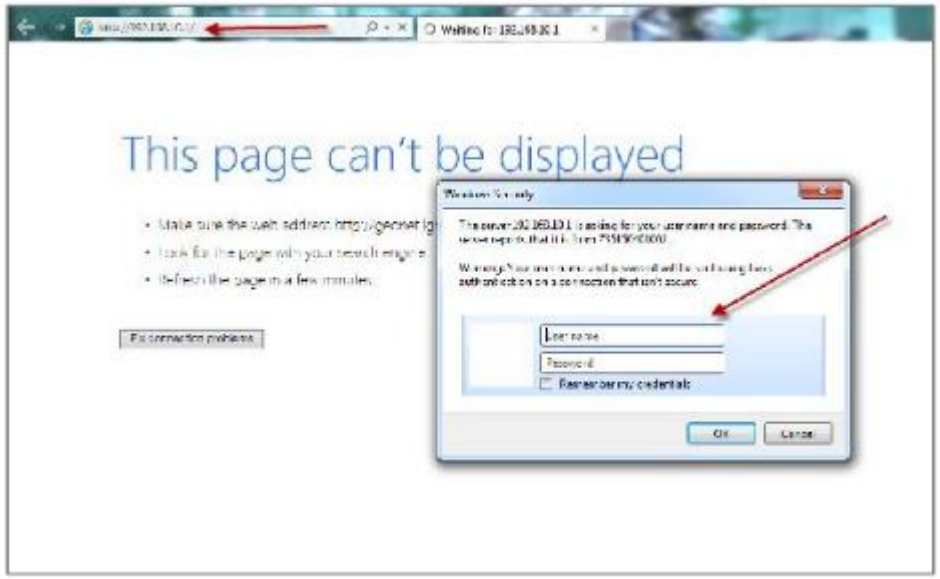
- Connect to the Wi-Fi network and open an internet browser

Web interface

- Once an internet browser has been opened, digit the following internet page

  http://192.168.10.1

- A login window pops--up



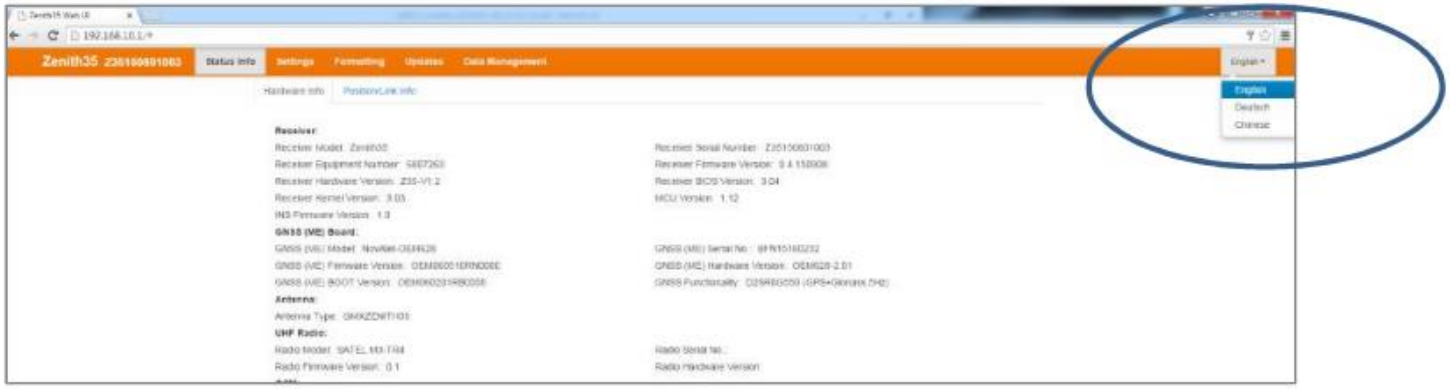
Web interface

- Default values for login are

User: admin

Password: password

- After a succesful login the web interface happear
- Click on top right of the screen to change the interface language



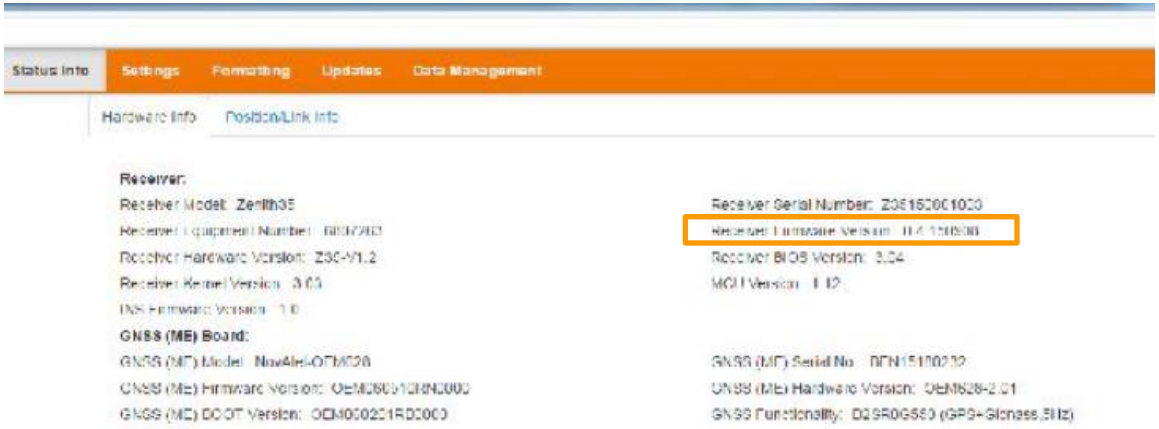
Firmware upgrade

- Login in geomax partner area and open the folder

GeoMax > GNSS > Zenith35 Series > **Firmware**

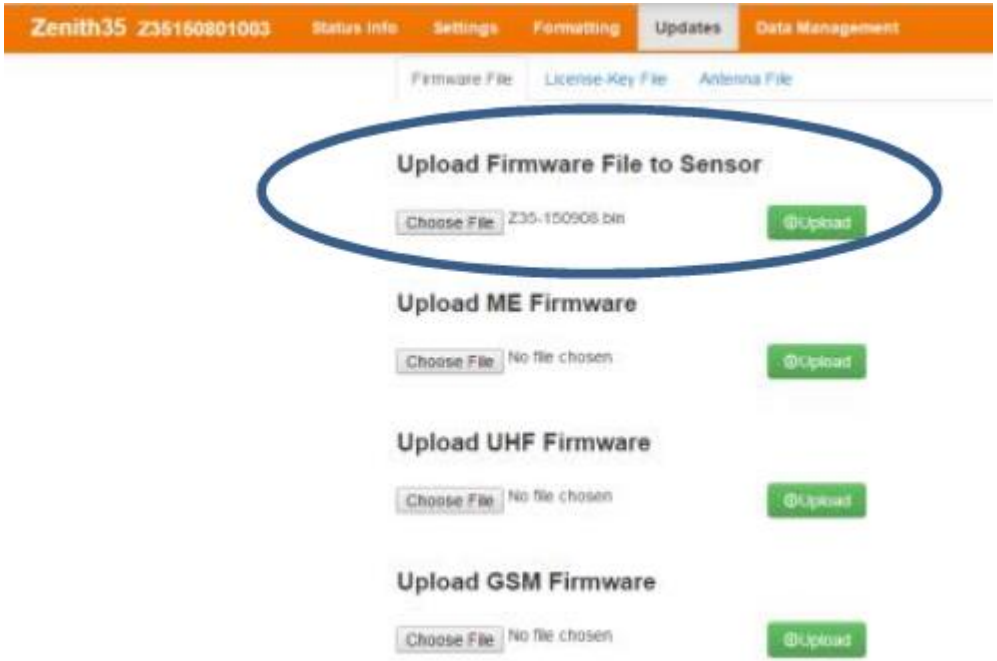
- Download the Z35 firmware file

- Before to upload the new one check in *Status info – Device info* that the firmware need to be upgraded



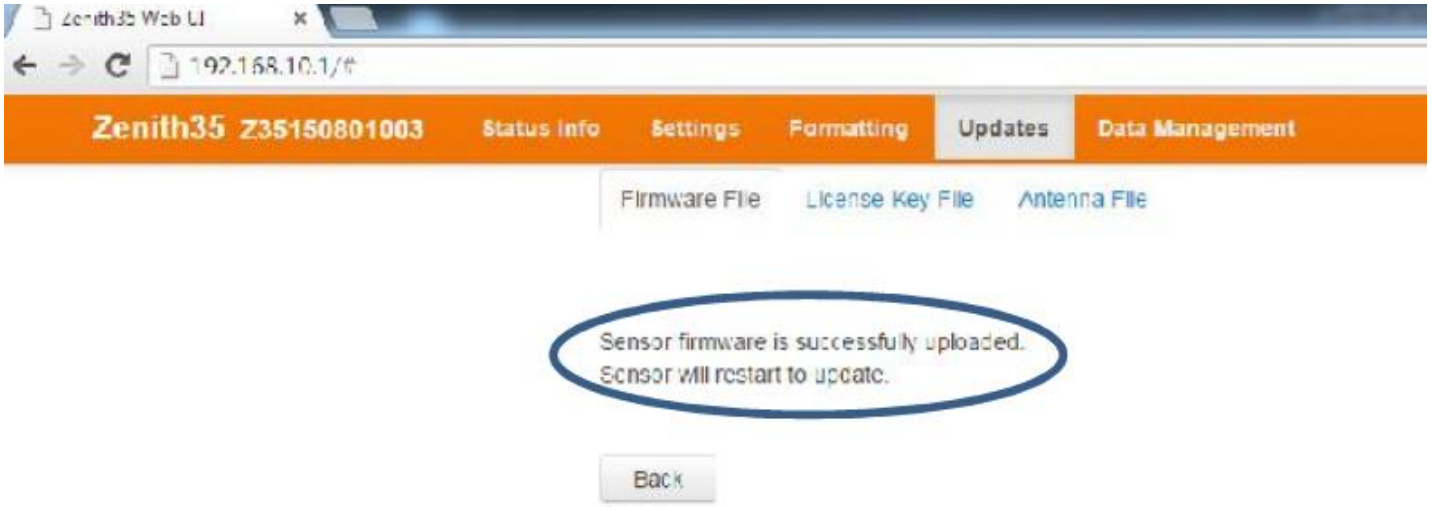
Firmware upgrade

- If you need to upgrade the firmware in web interface go to Updates
- Choose the downloaded firmware from the PC and click on Upload



Firmware upgrade

- Accept the warning message and wait for confirmation message
- Then unit will restart



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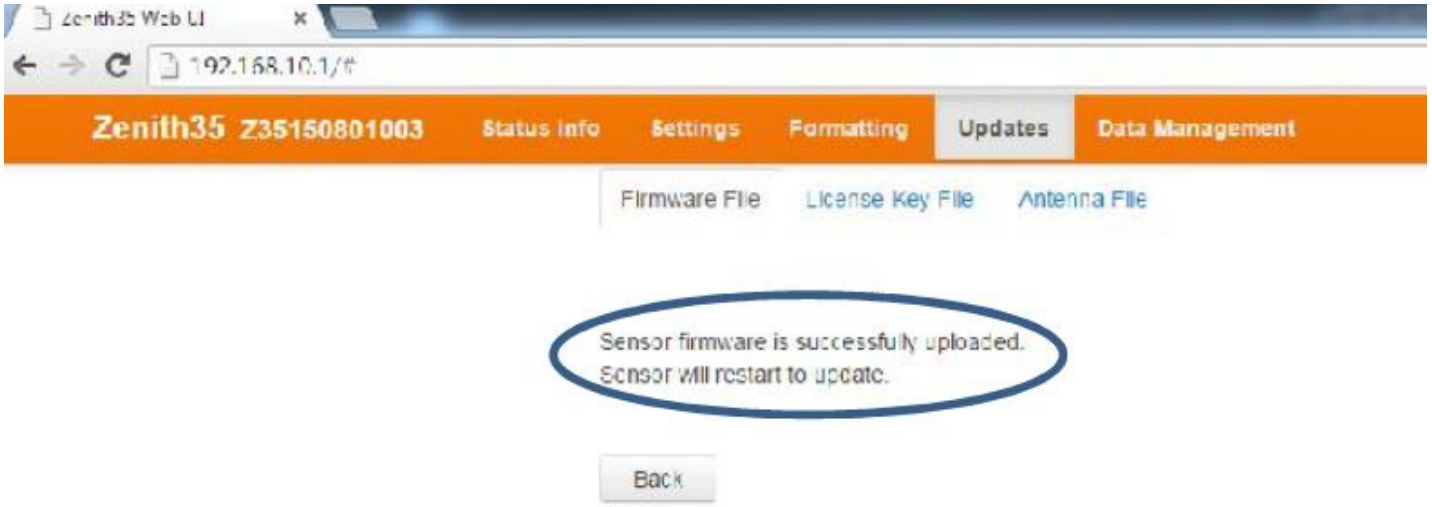

UHF Settings

- To define the UHF settings you can use the web interface
- Open the UHF settings in Settings and select UHF as real time datalink
- When you click on Advanced UHF settings you are asked to enter a password

To meet some coutries restriction UHF frequencies are protected with a password

- To proceed with the UHF settings, enter the password

config1234

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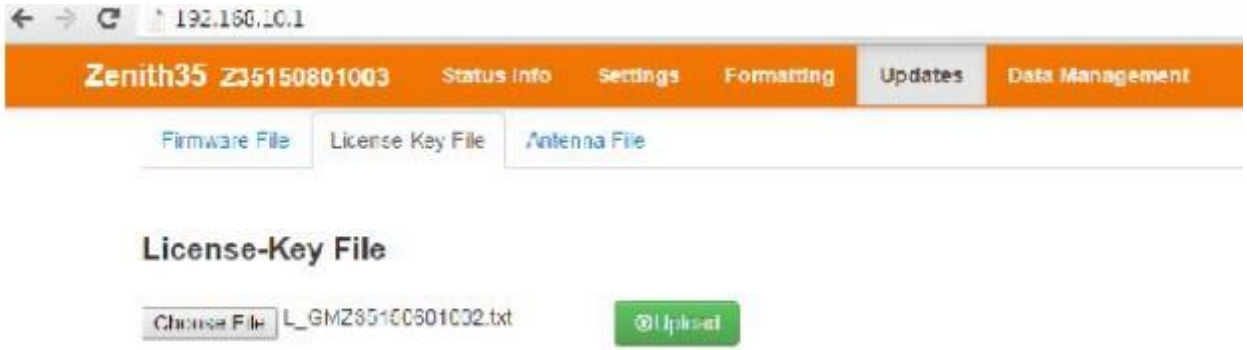
UHF Settings

- When logged, enter the desired settings
  - Frequency
  - Protocol (Satel, PacCrest, Trimtalk)
  - Spacing
  - Error checking
- Press Save Settings to confirm

License installation

- The following licenses are optional:
  - Beidou
  - 20Hz
  - GPS L5 frequency
- If you order an optional license you will receive a key file that need to be uploaded
- To update a license select Updates -> License key



License installation

- Select the .key file from the PC
- Click on Upload to load the license file to the receiver

A manual entry of the license is not permitted

Antenna file upload

- An antenna file is used in case you are working as rover and the base is not GeoMax.
- This don’t apply if you are working in a network; the network always use ADVNULLANTENNA
- If your Z35 works as rover and the base is not a Geomax antenna, you need to know the phase center offsets of the base
- The Z35 allow to import a file that includes all the phase center offsets for all the receiver brands

It is important to verify that the antenna file has been loaded to avoid errors in fields

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Antenna file upload

- Download from Geomax partner area the antenna file

- Click on Upload – Antenna file to upload the new antenna file you have downloaded

Field software Installation

- To configure the field controller and the field software, proceed in the standard way
- Verify that the field software is the last version available and the Zenith35 firmware is upgraded
- XPAD version 2.7.000

- GeoMax Fieldgenius 8.1.15.4 and Layout 2.4.15.3

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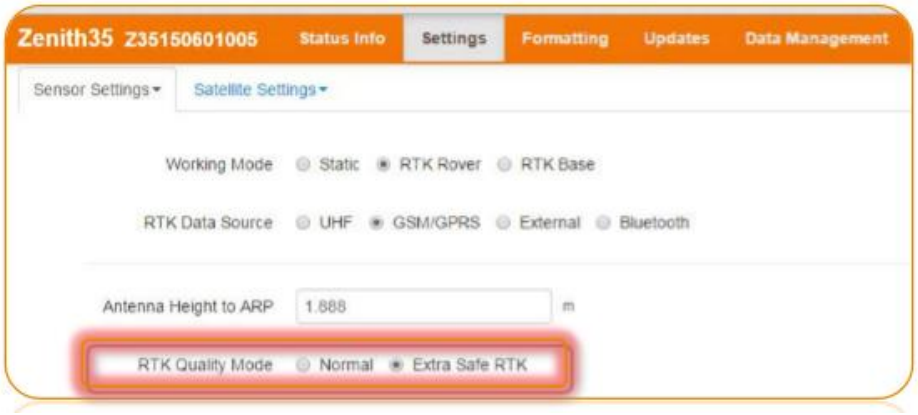
Focus on Safe mode

- With Zenith35 the user can configure the accuracy level
- On field software or on web interface is possible to activate/deactivate the **safe mode**
- When a point must be saved with maximum reliability is recommended to activate the safe mode
- Expecially in difficult enviroments, the safe mode garantee the best accuracy, but time to fix is increased



Focus on Safe mode

- Standard enviroment
  - SAFE MODE OFF and SAFE MODE ON the accuracy and the time to fix is the same
- Severe enviroment
  - SAFE MODE ON the accuracy is better but time to fix is increased

- In standard enviroment there is no different in accuracy and TTF using or not safe mode
- If working in difficult enviroment using safe mode I have a higher accuracy but the TTF is increased

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Thanks for your attentions

Any question?

For comment/suggestion please send an email to:

webinar@geomax-positioning.com

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