## 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.	<ul><li>Enter user name and password. The default values are:</li><li>User name: admin</li><li>Password: password</li></ul>
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.

Status Info Set	ettings Formatting Updates Data Management	
Hardw	ware Info Position/Link Info	
Rec	aceiver:	
Rec	eceiver Model: Zenith35	Receiver Serial Number: Z35150802002
Rec	eceiver Equipment Number: 6804063	Receiver Firmware Version: 1.10.160426
Rec	eceiver Hardware Version: Z35-V1.2	Receiver BIOS Version: 4.04
Rec	eceiver Kernel Version: 4.05	MCU Version: 1.12
GN	NSS (ME) Board:	
GN	NSS (ME) Model: NovAtel-OEM628	GNSS (ME) Serial No.: BFN15191009
GN	NSS (ME) Firmware Version: OEM060620RN0000	GNSS (ME) Hardware Version: OEM628-2.01
GN	NSS (ME) BOOT Version: OEM060201RB0000	GNSS Functionality: CDSR0G550 (GPS+Glonass+BeiDou,5Hz)
Ant	ntenna:	
Ante	itenna Type: GMXZENITH35	
UHF	HF Radio:	
Rad	adio Model: SATEL M3-TR4	Radio Serial No.: 1519000451
Rad	adio Firmware Version: V07.27.2.0.8.6	Radio Hardware Version: SPL0020d
GS	SM:	
GSI	SM Model: Cinterion PHS8	GSM IMEI Number: 358625050333782
GSI	SM Firmware Version: REVISION 03.001	
Blu	uetooth:	
Blue	uetooth Model: GEBW127XA	
Pov	ower Status:	
Pow	ower Source: Internal	Power Level: 95%
Mer	emory Device:	
Use	sed Memory: Internal Memory	Space Information: Total 3.16 GB; Used 1.65 MB; Free 3.16 GB

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 IDA four digit alphanumeric ID of your choicePDOP ThresholdLeave at default value of 99.0Logging Interval1HZLog Rinex FileSet to Rinex2.1Observer and AgencyCan leave blankAutomatic LoggingNoThen press "Save Settings"

Zenith35 z35160701009	Status Info	Settings	Formatting	Updates	Data Management	
	53	Sensor Setting	s▼ Satellite S	Settings •		
			Working Mod	de 💿 Static	RTK Rover RTK	Base
		Anter	nna Height to AR	2.000		m
			Point I	D 0870		
			PDOP Thresho	ld 99.0		[1-99]
			Logging Interv	al <mark>1</mark> Hz	•	
			Log Rinex Fi	le 🔘 NO	Rinex2.1	2
			Observ	er		
			Ageno	сy		
		N	lovAtel Debug Lo	og 💿 NO	VES	
		ł	Automatic Loggir	ng 🖲 NO	VES	
						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.

Hardware Info Position/Link Info	Status Info	Settings	Formatting	Updates	Data Management	
		Hardware Info	Position/Link	Info		

- Current Position (lat, long, height): 36.265790826 °, -94.128852869 °, 403.393 m
- GNSS Time: 01.07.2016, 12:58:44
- Tracked Satellites: SUM: 11 (GPS: 7, Glonass: 3, BeiDou: 1)
- Working Mode: Static
- RTK Status: Navigated
- Correction Format Type: RTCM3
- Base ID: 0
- DOP Values: PDOP: 2.159, HDOP:1.185, TDOP:1.261, GDOP:3.295
- Position Quality: 3.008 m
- Height Quality: 4.438 m
- Datalink Status: Disconnected
- Datalink: -
- Default Storage: Internal Memory
  - Raw Data Logging Status: No Start Recording
- Output NMEA Messages:

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

- Default Storage: Internal Memory
  - Raw Data Logging Status: Yes Stop Recording
- Output NMEA Messages:

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 .160 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.

Organize 🔻 📗 Open 🔻	Burn New folder			
🛛 🔆 Favorites	Name	Date modified	Туре	Size
	V26L139r27.16G	05/18/16 6:09 PM	16G File	10 KB
🛛 詞 Libraries	V26L139r27.16N	05/18/16 6:09 PM	16N File	11 KB
	V26L139r27.16O	05/18/16 6:09 PM	160 File	174 KB
<ul> <li>Computer</li> <li>Local Disk (C:)</li> <li>ZENITH35 (F:)</li> <li>T23F153o18</li> <li>723F153o19</li> <li>723F153o17</li> <li>car1139s20</li> <li>V26L139r27</li> <li>update</li> </ul>	V26L139r27.dat	05/18/16 6:09 PM	DAT File	136 KB

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.

