SUPPORT BULLETIN
Positioning Services

Configuring Trimble SPS98x For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud on your Trimble SPS985, Trimble SPS985L, and Trimble SPS986. To determine what new frequency and baud rate should be used in your region, please refer to
www.trimble.com/sat.

Changing the Frequency and Baud Rate for RTX on the SPS98x

The following set of instructions will instruct you how to change the frequency on your Trimble SPS98x.

You can change the frequency and baud rate for tracking the Trimble RTX satellite by using the web user interface (WebUI).

Connecting to the web user interface (WebUI) of the receiver

1. Make sure the receiver is on and in close proximity to your PC.
2. Connect to the receiver via WiFi – it should be listed as Trimble GNSS XXXX, where XXXX is the last 4 digits of the receiver’s serial number.
   a. If you are prompted for a password, the default password is abcdeabcde
3. Once connected to the GNSS receiver, open any modern web browser, such as Google Chrome, and type in http://192.168.142.1
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’
Note: If the SPS98x is not listed under WiFi connections, verify that the Wi-Fi icon on the front panel of the receiver is on and blinking; if it is not blinking, hold down the power button for 30 seconds, until you see all the lights on the front panel light up, and then release the power button. This will reset the SPS98x receiver to default settings, which will turn WiFi on again.

Changing the frequency and baud rate

1. Connect to the WebUI
2. Navigate to the MSS Corrections ➔ Configuration page
3. Select the RTX/xFill radio button
4. Select SV name: Custom
5. Enter the new satellites settings for your region
   a. Enter the new frequency in the Frequency [Mhz] field
   b. Enter the new baud rate in the Bit Rate [Hz] field
6. Click OK
Changing the Frequency and Baud Rate for OmniSTAR on the SPS98x

The following set of instructions will instruct you how to change the frequency on your Trimble SPS98x.

You can change the frequency and baud rate for tracking the OmniSTAR satellite by using either the web user interface (WebUI) or the front panel of the receiver.

Connecting to the web user interface (WebUI) of the receiver

1. Make sure the receiver is on and in close proximity to your PC.
2. Connect to the receiver via WiFi – it should be listed as Trimble GNSS XXXX, where XXXX is the last 4 digits of the receiver’s serial number.
3. Once connected to the GNSS receiver, open any modern web browser, such as Google Chrome, and type in http://192.168.142.1
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’

Note: If the SPS98x is not listed under WiFi connections, verify that the Wi-Fi icon on the front panel of the receiver is on and blinking; if it is not blinking, hold down the power button for 30 seconds, until you see all the lights on the front panel light up, and then release the power button. This will reset the SPS98x receiver to default settings, which will turn WiFi on again.

Changing the frequency and baud rate through the webUI

1. Connect to the WebUI
2. Navigate to the OmniSTAR \rightarrow Configuration page
3. Confirm the following settings
   a. Preferred Source of Data: External
b. **External OmniSTAR Data:** Auto  
c. **Internal OmniSTAR Demodulator:** Auto  
d. **SV name:** Custom  
e. **Max Data Outage:** 90 Sec

4. Enter the new satellites settings for your region  
a. Enter the new frequency in the **Frequency [Mhz]** field  
b. Enter the new baud rate in the **Bit Rate [Hz]** field

5. Click OK

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**Changing the Frequency and Baud Rate for xFill on the SPS98x**

Trimble xFill utilizes the same satellite beams as Trimble RTX; you can follow the same directions presented in **Changing the Frequency and Baud Rate for RTX** and xFill will automatically use the new satellite beam settings.

**Verifying Correct Operation for Trimble RTX**

Once you have reconfigured your receiver to the correct new satellite settings for your region, you can confirm that you are receiving the signal by following the steps below.

**Verification through the webUI**

1. Make sure the receiver is outside with a clear and open view of the sky  
2. Connect to the WebUI  
3. Navigate to the **OmniSTAR ➔ Summary** page  
4. The **Mode** field should display **Tracking**
Verification through the SCS900 field software

1. Make sure the receiver is outside with a clear and open view of the sky
2. Connect to the receiver from the SCS900 field software and select CenterPoint RTX as your Correction method
3. Navigate to **GPS Status** by clicking on the satellite icon from the main view

![GPS Status](image)

4. The **Position** field will display **RTX**

![GPS Status](image)

**Verifying Correct Operation for OmniSTAR**

Once you have reconfigured your receiver to the correct new satellite settings for your region, you can confirm that you are receiving the signal by following the steps below.

**Verification through the webUI**

1. Make sure the receiver is outside with a clear and open view of the sky
2. Connect to the WebUI
3. Navigate to the **OmniSTAR→Summary** page
4. The **Mode** field should display **Tracking**
Verification through the SCS900 field software

1. Make sure the receiver is outside with a clear and open view of the sky
2. Connect to the receiver from the SCS900 field software and select **OmniSTAR** as your **Correction method**
3. Navigate to **GPS Status** by clicking on the satellite icon from the main view

4. The **Position** field will display **OmniSTAR**
For Additional Assistance

For more information contact Correction Services Customer Care or your local Trimble reseller. The most up to date contact information is available at www.trimble.com/Positioning-Services/contact-us