SUPPORT BULLETIN

Positioning Services

Configuring Trimble SPS 855 and SPS 852 For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud on your Trimble SPS 855 and SPS 852. 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 SPS 855 and SPS 852

The following set of instructions will instruct you how to change the frequency on your Trimble SPS 855 and SPS 852.

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. Connect the SPS 855 or SPS 852 to a PC using an Ethernet cable.
   a. There is an adapter that goes into the 26pin port on the back of the receiver. This adapter has an Ethernet port on the other end and an Ethernet cable should be connected from that to a PC.
2. Once the receiver is connected to the computer via Ethernet, an IP address will appear on the front panel of the receiver. If the front panel is displaying other information, press either the up or down arrows on the front panel to scroll through different options until an IP address is displayed.
3. On the computer, open any modern web browser, such as Google Chrome, and type in the IP address from step (2).
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’
4. If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WiFi.
Changing the frequency and baud rate

1. Connect to the WebUI
2. Navigate to the OmniSTAR→Configuration page
3. Confirm the following settings
   a. **Preferred Source of Data**: External
   b. **External OmniSTAR Data**: Auto
   c. **Internal OmniSTAR Demodulator**: RTX
   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
Changing the Frequency and Baud Rate for OmniSTAR on the SPS 855 and SPS 852

The following set of instructions will instruct you how to change the frequency on your Trimble SPS 855 and SPS 852.

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. Connect the SPS 855 or SPS 852 to a PC using an Ethernet cable.
   a. There is an adapter that goes into the 26pin port on the back of the receiver. This adapter has an Ethernet port on the other end and an Ethernet cable should be connected from that to a PC.
2. Once the receiver is connected to the computer via Ethernet, an IP address will appear on the front panel of the receiver. If the front panel is displaying other information, press either the up or down arrows on the front panel to scroll through different options until an IP address is displayed.
3. On the computer, open any modern web browser, such as Google Chrome, and type in the IP address from step (2).
   a. If you are prompted for login credentials, the default username is ‘admin’ and the default password is ‘password’
4. If the Web UI asks for credentials, the default username is “admin” and the default password is “password”.

Note: If there are any issues with step (3), make sure all other network connections are turned off or disconnected; this includes disconnecting or turning off WIFI.

Changing the frequency and baud rate through the webUI

1. Connect to the WebUI
2. Navigate to the OmniSTAR ➔ 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 through the front panel of the receiver

1. From the main screen press the Enter key once to access the **Operation Mode** screen
2. Press the Down Arrow key until **OmniSTAR Config** is selected
3. Press the Enter key until the **Satellite screen** is shown
4. Press the Down Arrow key until **Manual/XXXX** is shown, where **XXXX** can be any satellite name
5. Press the Enter key to enter the **Manual Sv** screen
6. Press the Down Arrow key until **Custom** is shown
7. Press the Enter key until the **Freq** screen is shown
8. Use the Right Arrow and Left Arrow keys to move the cursor and select a digit. Use the Up Arrow and Down Arrow keys to change the digits to the correct Frequency for your area
9. Press Enter key once to set the Frequency, and once more to get to the **Bit Rate** screen
10. Use the Right Arrow and Left Arrow keys to move the cursor and select a digit. Use the Up Arrow and Down Arrow keys to change the digits to the correct baud rate (bit rate) for your area.

11. Press Enter until you return to the main screen.

Changing the Frequency and Baud Rate for xFill on the SPS 855 and SPS 852
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 antenna connected to 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 antenna connected to 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.

4. The **Position** field will display **RTX**.
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 antenna connected to 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

![OmniSTAR Summary](image)

**Verification through the SCS900 field software**

1. Make sure the antenna connected to 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**

![GPS Status](image)
For Additional Assistance
If you need additional assistance, please contact your regional Customer Care team.

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