Frequency and Baud Rate Configuration (For Trimble Receivers)

The following instructions will instruct you how to change the frequency and baud rate used for satellite-based (MSS / L-band) corrections. These instructions are applicable for Trimble branded receivers with a web user interface (webUI).

The document is split up into 3 sections:

1. Connecting to the WebUI,
2. Changing the frequency and baud rate, and
3. Verifying correction operation after the frequency and baud rate change

Please refer to the Trimble RTX or OmniSTAR coverage maps for the most current frequency and baud rate information.

News regarding satellite beam coverage, frequencies, and baud rates can be found at trimble.com/sat.

https://positioningservices.trimble.com/

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WebUI Access

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

Connecting to the web user interface (WebUI) of the receiver - via WiFi

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’

Connecting to the web user interface (WebUI) of the receiver - via Ethernet

Receivers without WiFi access will need to be connected to via Ethernet.

1. Connect the receiver to a PC using an Ethernet cable.
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 up any web browser 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’

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

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Trimble RTX and xFill - Changing The Frequency and Baud Rate

1. Connect to the WebUI
2. Navigate to the MSS Corrections → Configuration page
3. Select RTX/xFill
4. Change SV name to 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

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OmniSTAR - Changing The Frequency and Baud Rate

1. Connect to the WebUI
2. Navigate to the MSS Corrections → Configuration page
3. Select OmniSTAR
4. Confirm the following settings
   a. Preferred Source of Data: External
   b. External OmniSTAR Data: Auto
   c. Internal OmniSTAR Demodulator: Auto
   d. Max Data Outage: 90 Sec
5. Change SV name to Custom
6. 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
7. Click OK
Trimble RTX and xFill - Verifying Correct Operation After Frequency Change

Once you have configured 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.

1. Make sure the antenna connected to the receiver (or just the receiver for smart antennas) is outside with a clear and open view of the sky
2. Connect to the WebUI
3. Navigate to the MSS Corrections → Status page
4. The Mode field should display Tracking

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OmniSTAR - Verifying Correct Operation After Frequency Change

Once you have configured 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.

1. Make sure the antenna connected to the receiver (or just the receiver for smart antennas) is outside with a clear and open view of the sky
2. Connect to the WebUI
3. Navigate to the MSS Corrections → Status page
4. The Tracking Mode field should display Full Tracking

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More Information

If you need any assistance or have questions, our Customer Care team is standing by to help, 24 hours a day, 7 days a week. The most current contact information is available at https://positioningservices.trimble.com/contact/