SUPPORT BULLETIN
Positioning Services

Configuring Trimble R10 For New Frequency and Baud Rate

The following instructions will instruct you how to change the frequency and baud on your Trimble R10. 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 Trimble R10

The following set of instructions will instruct you how to change the frequency on your Trimble R10.

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

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 R10 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 R10 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→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 through the Trimble Access field software

1. Connect to the receiver
   a. Navigate to **Settings → Bluetooth** and select the appropriate receiver under **Connect to GNSS rover**
   b. Click Accept
2. Start an RTX survey
   a. From the General Survey main menu, click Measure

   ![Diagram of General Survey menu]

   ![Diagram of Measure menu]

   b. Select an RTX Survey Style
c. Click Measure points

3. Select the Satellite icon
4. Select **Options**

![Trimble RTX status screen with options circled](image)

5. Select **Custom** from the dropdown menu

![Trimble Configure screen with custom option circled](image)
6. Enter the new satellites settings for your region
   a. Enter the new frequency in the **Frequency** field
   b. Enter the new baud rate in the **Bit Rate** field

7. Click **Enter**, and then **Accept**

**Changing the Frequency and Baud Rate for OmniSTAR on the Trimble R10**

The following set of instructions will instruct you how to change the frequency on your Trimble R10.

You can change the frequency and baud rate for tracking the OmniSTAR 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.
3. Once connected to the GNSS receiver, open any modern web browser, such as Google Chrome, and type in [http://192.168.142.1](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 R10 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 R10 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 ➔ 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
Changing the Frequency and Baud Rate for xFill on the Trimble R10

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 Trimble Access field software

1. Make sure the receiver is outside with a clear and open view of the sky
2. Connect to the receiver
   a. Navigate to Settings → Bluetooth and select the appropriate receiver under Connect to GNSS rover
   b. Click Accept
3. Start an RTX survey
   a. From the General Survey main menu, click Measure

   ![Image of General Survey main menu](image)

   b. Select an RTX Survey Style

   ![Image of Measure menu](image)
4. Select the Satellite icon
5. The **Solution type** will display RTX

![RTX 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 Trimble Access field software

1. Make sure the receiver is outside with a clear and open view of the sky
2. Connect to the receiver
   a. Navigate to **Settings → Bluetooth** and select the appropriate receiver under **Connect to GNSS rover**
   b. Click Accept
3. Start an OmniSTAR survey
   a. From the **General Survey** main menu, click **Measure**

   ![Job: Test]

   ![Measure]

   b. Select an OmniSTAR Survey Style
c. Click Measure points

4. Click on Esc, and click Continue to start an OmniSTAR survey
5. Click Continue

**Waiting for radio link**

Cancel Survey, or continue and start OmniSTAR without waiting for RTK

6. Select the Satellite icon
7. The **System** will display **OmniSTAR**

System: **OmniSTAR**

Correction age: **6.0s**

Correction satellite name: ?

RTK: Omni VBS H:0.341m V:0.291m
For Additional Assistance
If you need additional assistance, please contact your regional Customer Care team.

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