

# JAVAD GNSS Inc.

## Configuring the HPTxxxBT Radio on Triumph-2 Triumph-3NR

Using NetView and Modem application

June, 2023



The **HPTxxxBT** radio modem and the **TRIUMPH** receiver ship from the factory already paired and ready to communicate with each other out of the box.

Once powered, both the radio modem and receiver will show their blue LEDs lit indicating their linked communications.

Usually this only takes a few seconds.

When you purchase a radio from Javad GNSS separately from the purchase of the receiver, the **NetView and Modem** application is available to establish their pairing.

NV&M can also be used in establishing a pairing with multiple radio modems in the HPT series which include:

HPT901BT\*, HPT401BT, HPT404BT and the HPT435BT

## Step 1

- Connect the **TRIUMPH** to your PC using the USB cable: USB Cable, A / micro B, (3.3 ft / 1.0 m) [14-578156-01].
- Power the **TRIUMPH** receiver on.

## Step 2

- Connect the **HPTxxxBT** to your PC via a Serial port or the USB port.  
\*\* Be sure to connect the antenna before powering the radio on \*\*
- Power the **HPTxxxBT** radio modem on.

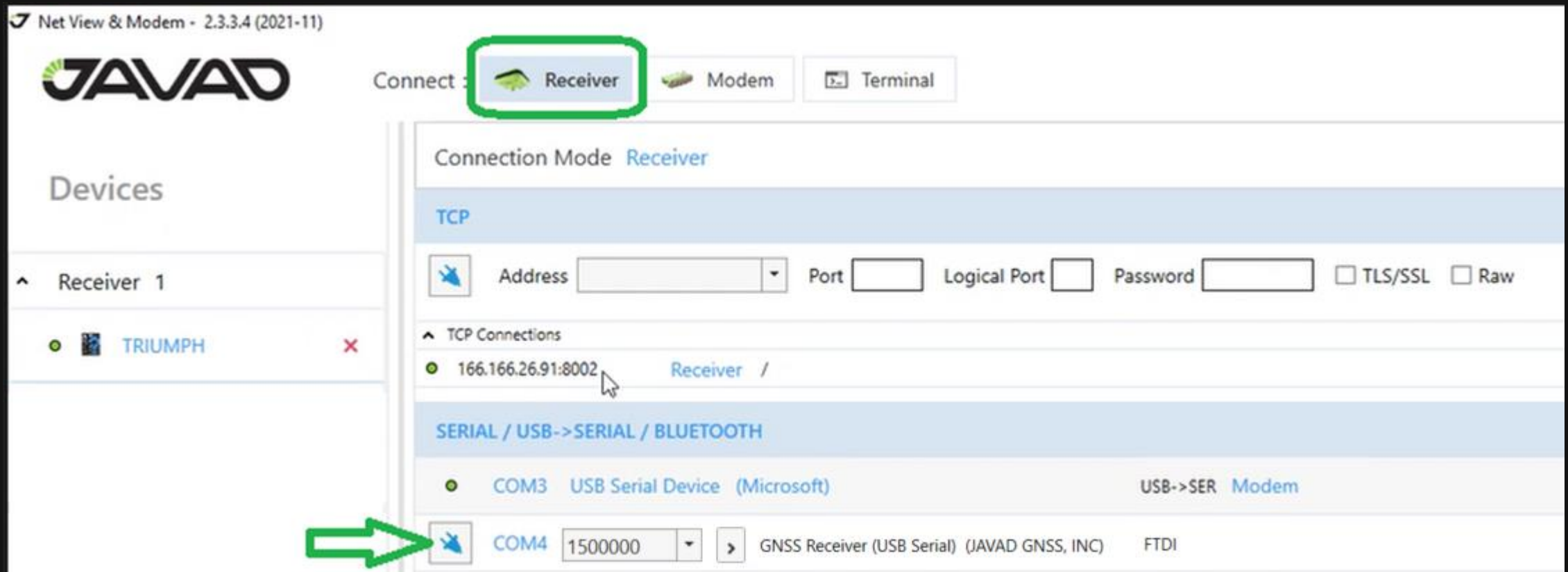
## Step 3

- Run the **Net View and Modem** (NV&M) application on your PC.

# Pairing the Radio Modem

## Step 4

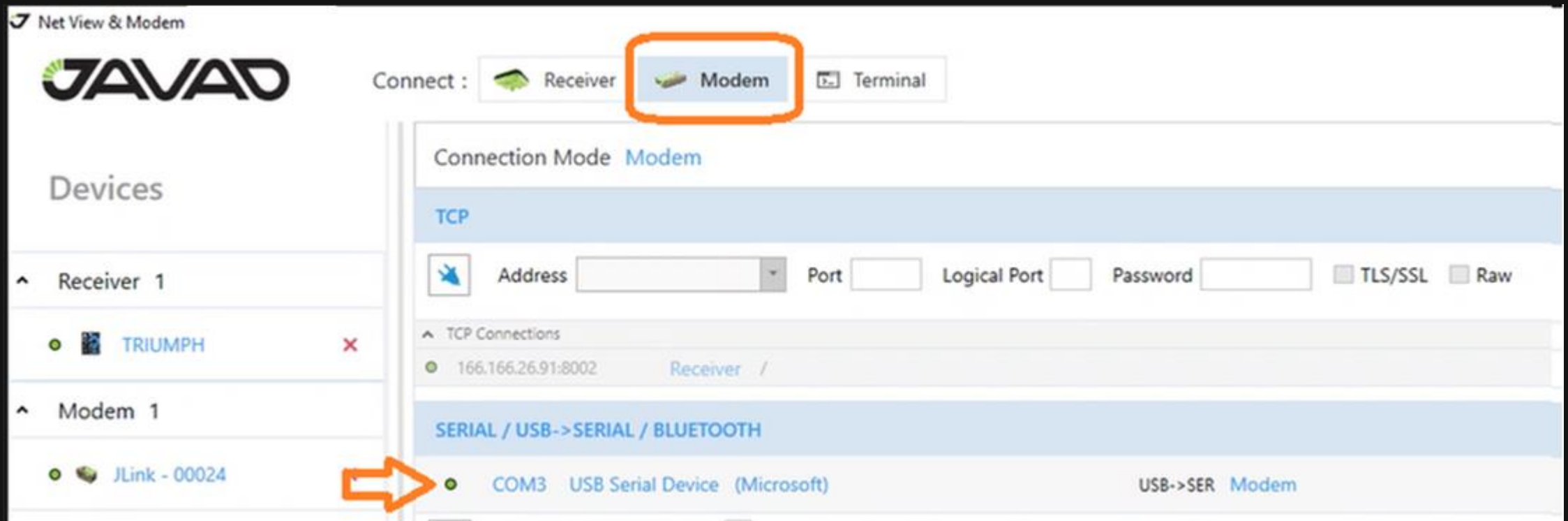
- Using NV&M, establish a connection to the **TRIUMPH** to your PC by using USB connection (or TCP).



# Pairing the Radio Modem

## Step 5

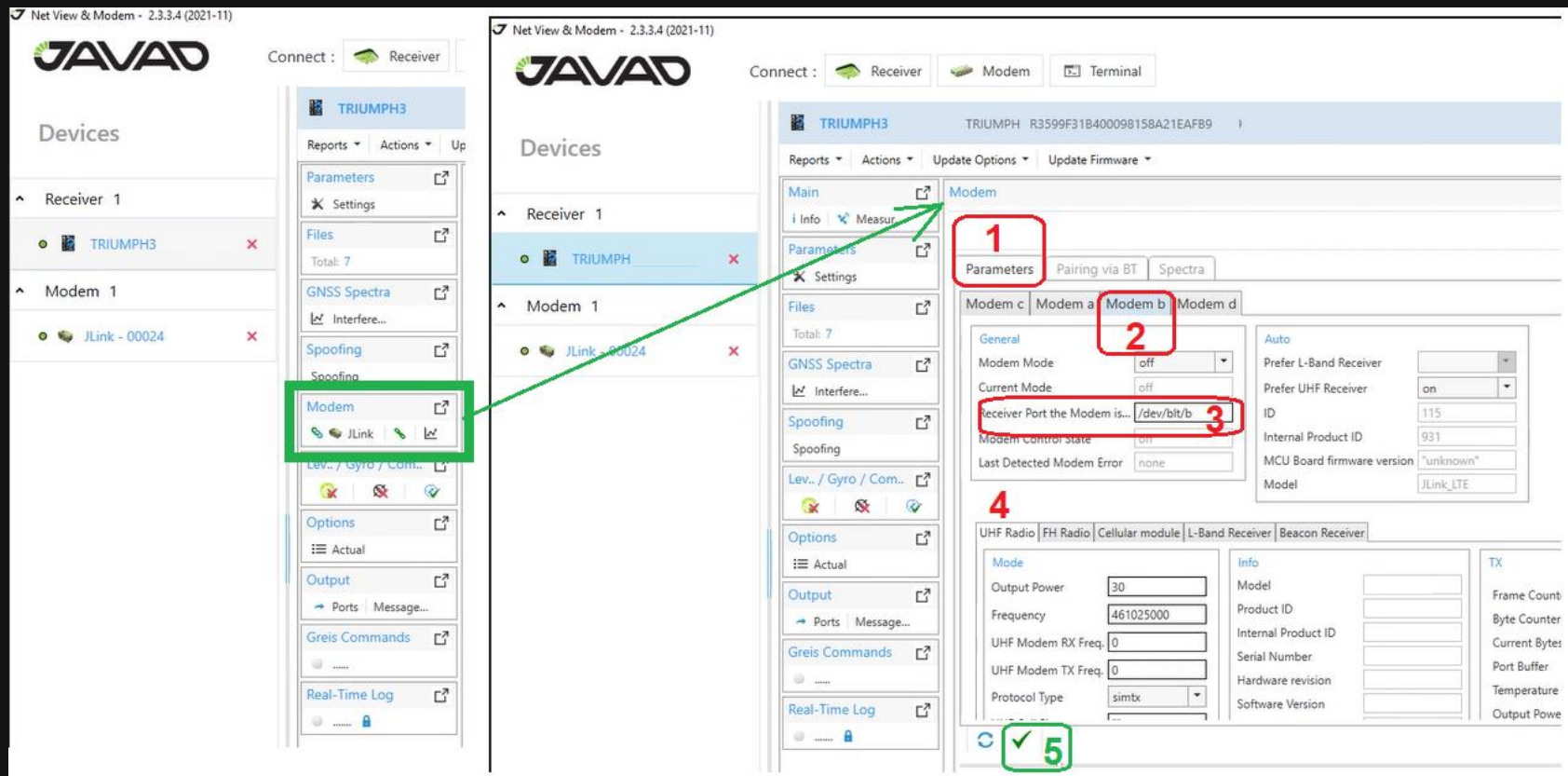
- Using NV&M, establish a connection to the **HPTxxxBT** to your PC by using either Serial or USB



# Pairing the Radio Modem

## Step 6

- Select Modem Option on the Receiver menu and then select the Modem Parameters 'tab' & the Modem b 'tab'.
- Select `'/dev/blt/b'` for the **Triumph** Receiver Port *Radio* Modem.
- Select the UHF Radio 'tab'.
- and Select the Confirm 'Icon'.



The image displays two screenshots of the JAVAD Net View & Modem software interface, version 2.3.3.4 (2021-11).

**Left Screenshot:** The 'Devices' panel on the left shows 'Receiver 1' and 'Modem 1'. The 'Modem 1' section is expanded, and the 'Modem' option is highlighted with a green box. A green arrow points from this box to the 'Modem' tab in the right screenshot.

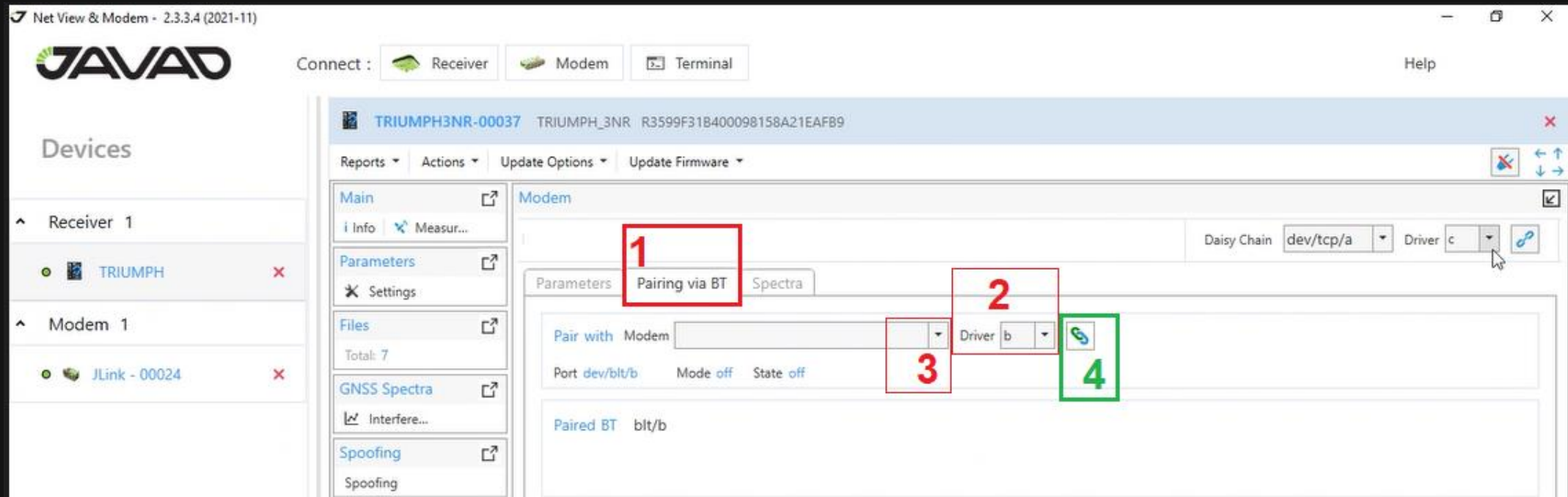
**Right Screenshot:** The 'Modem' tab is selected. The 'Parameters' sub-tab is active. The 'Modem b' tab is highlighted with a red box and labeled '2'. The 'Receiver Port the Modem is...' field is set to `/dev/blt/b` and is highlighted with a red box and labeled '3'. The 'UHF Radio' tab is selected at the bottom, and a green checkmark icon is highlighted with a green box and labeled '5'.

Red numbers 1, 2, 3, and 4 are also present in the right screenshot, indicating specific steps in the pairing process.

# Pairing the Radio Modem

## Step 7

- Select the Pairing via BT 'tab'.
- Select Driver 'b' for the 'Pair with Modem'.
- Select the Modem type from the dropdown box selection and Select the confirm 'Icon'.
- then Click the Pair 'Icon'.

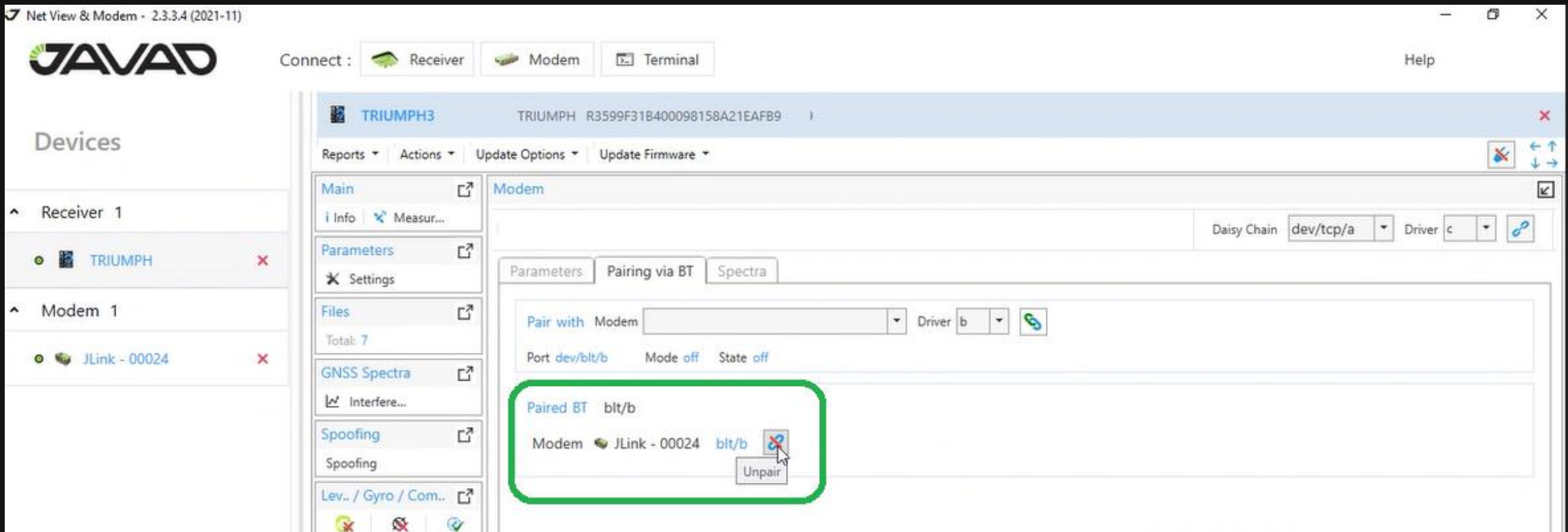


# Pairing the Radio Modem

## Step 8

- Check that the **Triumph** and **HPTxxBT** radio are 'paired' using '**blt/b**' (Bluetooth Port b).

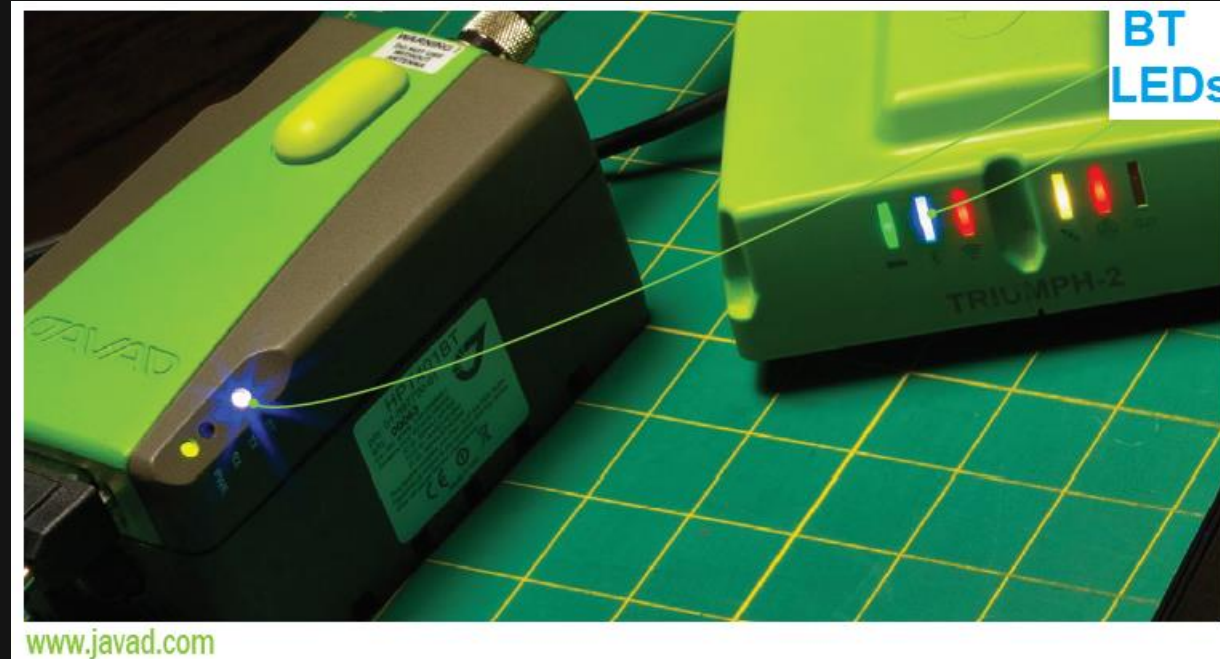
*Note: The BT link can be 'un-paired' by selecting the Unpair 'Icon'*



# Pairing the Radio Modem

## Step 9

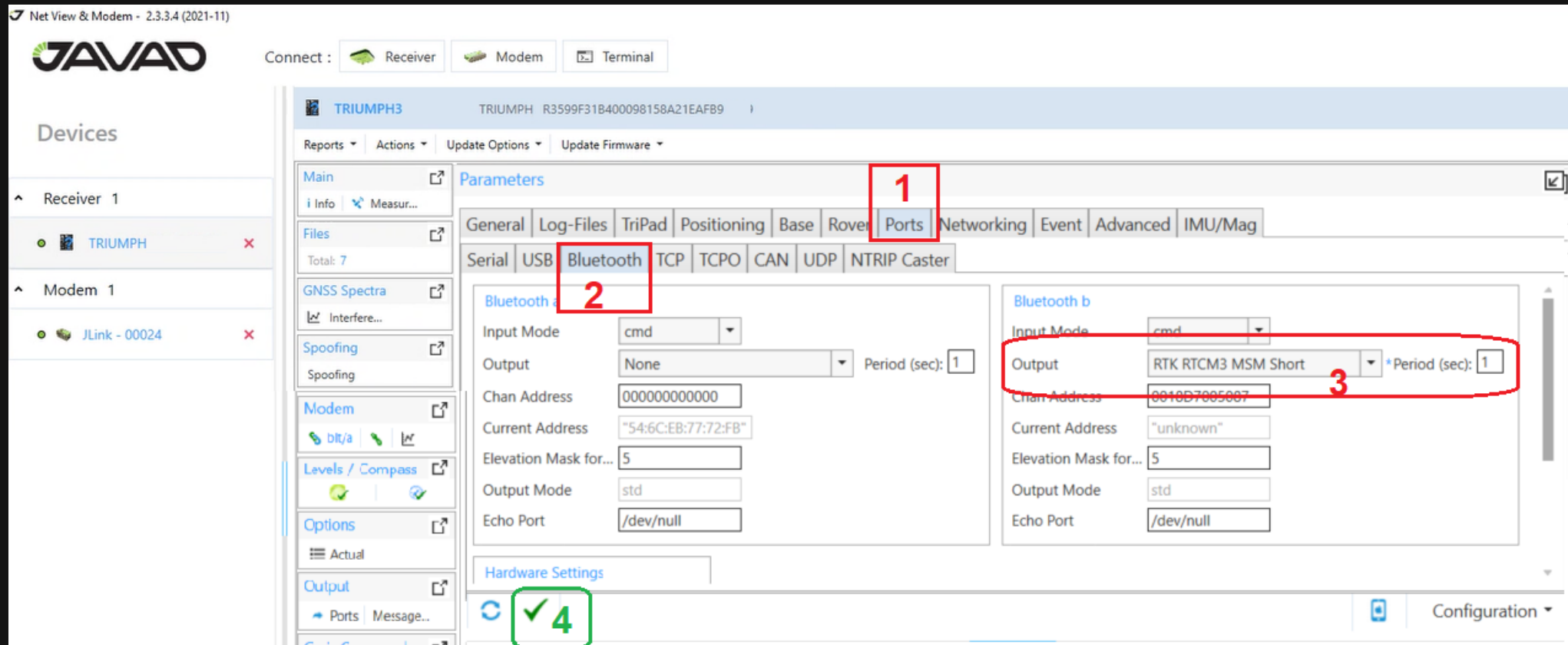
- The Bluetooth LED on both the **TRIUMPH** and **HPTxxxBT** should now both be blue.



# Pairing the Radio Modem

## Step 10

- Configure Base station RTK RTCM3 correction data output using the Ports 'tab' & Bluetooth 'tab'.
- and Select the Confirm 'Icon'.



# Pairing the Radio Modem



## Step 11

- Base station RTK RTCM3 correction data output can also be configured using the Receiver Output menu option, then select the Ports '*tab*'.
- Locate the Port '**/dev/blt/b**'.
- Select the Message Set from the 'drop down menu'.



# Pairing the Radio Modem



## Step 12

- Return to the Main screen and you can check the system.

The screenshot displays the JAVAD Net View & Modem software interface. The top bar shows the JAVAD logo and connection options: Receiver, Modem, and Terminal. The left sidebar lists 'Devices' with 'Receiver 1' (TRIUMPH3) and 'Modem 1' (JLink - 00024). The main panel shows the 'Main' screen for the TRIUMPH3 device, displaying various parameters and a satellite table.

**Device Information:**

- ID: R3599F31B400098158A21EAFB9
- Model: TRIUMPH3
- Vendor: JAVAD GNSS
- Serial No: 00037
- Firmware: 4.3.00
- Board: TRIUMPH3

**System Status:**

- UpTime: 0d01h41m49s
- Memory (Used/Total): 27.09 MB / 52.27 GB
- Number of files: 7
- Communication Interfaces: B, W, G, U, C
- Spooing Mode: Off

**Satellites Table:**

Sys	Num	EI	Az	SNR	CA	P1	P2	L2C	L5	L1C	Track Time	Status	Health
<b>GPS : (3)</b>													
GPS	13	48	136	28							00:00:00	23	✓
GPS	25	15	236	33							00:00:15	0	✓
GPS	29	61	298	29							00:00:02	23	✓
<b>GLO : (1)</b>													
GLO	17/4	67	24	27							00:00:04	23	✓
<b>GAL : (3)</b>													
GAL	4	56	150	25							00:00:00	23	✓
GAL	9	17	194						35		00:02:12	45	✓
GAL	25	17	266	30			33		27		00:01:49	23	✓
<b>BDS : (1)</b>													
BDS	11	33	128				31				00:05:35	2	✓

**Real-Time Log:**

- Link Id: /bit/a
- Decoder Id: RTCM 3.0
- Station Id: 0000
- Time elapsed si...: 999
- Received messa...: 0000
- Corrupt messag...: 0000
- Link quality (%): 100.00

**Summary:** Satellites 8 (3) | GPS - 3 (1) | GLO - 1 (0) | GAL - 3 (1) | QZSS - 0 (0) | BDS - 1 (1) | SBAS - 0 (0) | IRNSS - 0 (0) | L BAND - 0 (0)

