



JLink LTE

Radio Transceiver

User Manual
Version 1.0
February 2, 2026





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TERMS AND CONDITIONS

USE – JAVAD GNSS products are designed to be used by a professional. The user is expected to have a good knowledge and understanding of the user and safety instructions before operating, inspecting or adjusting. Always wear the required protectors (safety shoes, helmet, etc.) when operating the unit.

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USA

1. INTRODUCTION

JLink LTE is a family of devices designed for organizing a local network between different devices via WiFi, Ethernet, and Bluetooth, connecting to the Internet using 4G cellular digital communication services.

1.1. User Notices

1.1.1. CE Notices



JLink LTE complies with all applicable EU directives, including the Low Voltage Directive (2014/35/ EU), EMC Directive (2014/30/EU), and RoHS Directive (2011/65/EU).

1.1.2. Environmental Compliance



JLink LTE are fully compliant with the latest directives:

- WEEE (Waste Electrical and Electronic Equipment)
- RoHS (Restriction of Hazardous Substances)
- REACH (Registration, Evaluation, Authorization & Restriction of Chemicals).

These standards ensure that JLink LTE is manufactured and disposed of in an environmentally responsible manner.

1.1.3. Storage Precautions

1. Always clean the instrument after use. Wipe off dust with a cleaning brush, then wipe off dirt with a soft cloth.
2. Store in a location with a temperature of from -40° to $+85^{\circ}\text{C}$, and no exposure to direct sunlight.
3. Use a clean cloth, moistened with a neutral detergent or water, to clean the receiver. Never use an abrasive cleaner, ether, thinner benzene, or other solvents.
4. Always make sure the instrument is completely dry before storing. Dry the receiver with a soft, clean cloth.

1.1.4. General Warnings

JAVAD GNSS receivers are designed for measuring and measuring related uses (that is, measuring coordinates, distances, angles and depths, and recording such measurements). This product should never be used:

- Without the user thoroughly understanding operator's manual.
- After disabling safety systems or altering the product.
- With unauthorized accessories.
- Without proper safeguards at the measuring site.
- Contrary to applicable laws, rules, and regulations.

Warning: The JLink LTE receiver should never be used in dangerous environments. Use in rain or snow for a limited period is permitted.



1.2. Safety Warnings

Read these instructions.

Keep these instructions.

Heed all warnings.

Follow all instructions.

Clean only with a damp cloth.

Warning: Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.

Warning: Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Warning: Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

Warning: Only use attachments/accessories specified by the manufacturer.

Warning: Use only with a pole, cart, stand, or tripod, specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

Warning: Unplug this apparatus during lightning storms or when unused for long periods of time.

Warning: Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, or has been dropped.

Warning: Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, shall be placed on the apparatus.

1.3. Screen Captures

This manual includes sample screen captures. Your actual screen can look slightly different from the sample screen due to the unit you have connected, operating system used and settings you have specified. This is normal and not a cause for concern.

2. JLINK LTE OVERVIEW

JLINK LTE combines a 1 W UHF transceiver with cellular, Wi-Fi, and Bluetooth to ensure reliable communication in the field.

It delivers RTCM corrections through direct links or network connections and includes GNSS for location awareness.

Simple configuration and management make deployment quick, while the optional internal Li-Ion battery ensures uninterrupted operation. Compact and versatile, JLINK LTE is a practical solution for all-day fieldwork.

2.1. Hardware Specifications

2.1.1. Power Consumption and Operation Time

Power Input: +5.5...36V DC, 4Amax; +12...34V when the battery is charged, 3.6Amax

Typical Consumption: 2W

Internal Battery: 1 x embedded, 7.2V, 5.850 Ah

Operation Time: 7 hours

2.1.2. Key Features

- 1 W UHF Transceiver
- RTCM Corrections
- Cooling Fan
- Encoding Options
- Cellular, Wi-Fi, Bluetooth
- LAN & USB
- Internal Li-Ion Battery (optional)
- Integrated GNSS

2.1.3. Physical and Environmental

Dimensions	147 x 76 x 44 mm / 147 x 82 x 81 mm (with battery)
Weight	468 g / 970 g (with battery)
Temperature Range	-40°C to +70°C (Operating) -40°C to +85°C (Storage)
Humidity	100% Condensing
Ingress protection	IP68
Shock & Vibration	MIL-STD-810H; Survives 2 m drop
Material	Aluminum

2.1.4. Time to First Fix

Cold Start	< 42 s
Warm Start	< 30 s

2.2. JLink LTE design



2.3. LED's description

LED	Symbol	Device State								
POWER/BAT		External Power ON				External Power OFF				
		BAT Charged	BAT Half	BAT Empty		BAT Full	BAT Half	BAT Empty		
					BLINK	BLINK	BLINK			
UHF				Error	RX		TX			
		TR and RX	TX							
		SEARCH			LOW RSSI (< -90 dBm) (BLINK)		LOW OUTPUT POWER (<20dBm) (BLINK)			
					MIDDLE RSSII (-90 .. -50dBm) (BLINK)		MIDDLE OUTPUT POWER(20..27dBm) (BLINK)			
					HIGH RSSI (> -50 dBm) (BLINK)		HIGH OUTPUT POWER(27dBm) (BLINK)			
GSM				Error	Active					
		REGISTRATION			2G (BLINK)					
		2G			3G (BLINK)					
		3G			4G (BLINK)					
		4G								
BT/WIFI		BT		WIFI						
				Client			Access Point			
			Error	Active		Error	Active		Error	Active
				BLINK			BLINK			BLINK

3. SIM CARD INSTALLATION

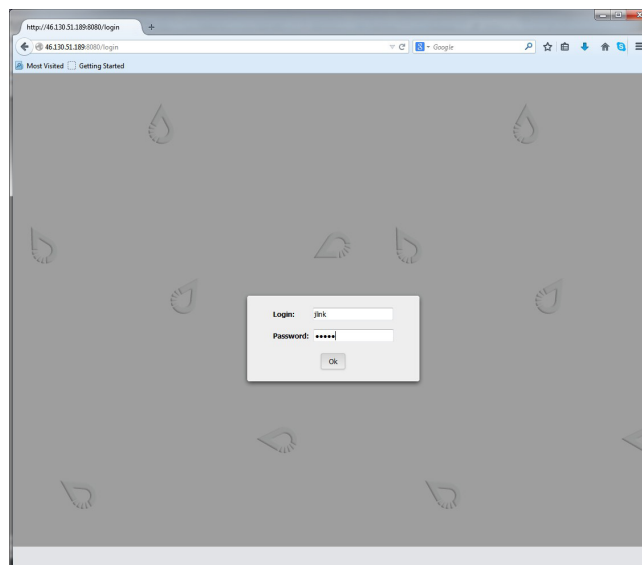
1. Connect Bluetooth and GSM antennas to JLink LTE as shown on the picture below.
2. Connect JLink LTE to external power supply (10...30 V).
3. Insert SIM card to the SIM card slot if you would like to use GSM connection to connect to Internet.
4. Plug in LAN cable if you would like to use Ethernet connection to connect to Internet.
5. Plug in COM PORT cable if you would like to use CLI interface to communicate with device.

4. SETUP AND CONFIGURATION

1. Turn on power of JLink LTE.
2. Wait for complete loading. When it is complete, Power LED will blink.
3. Connect to the device and configure it using web-browser.

Connection can be established in one o the following ways:

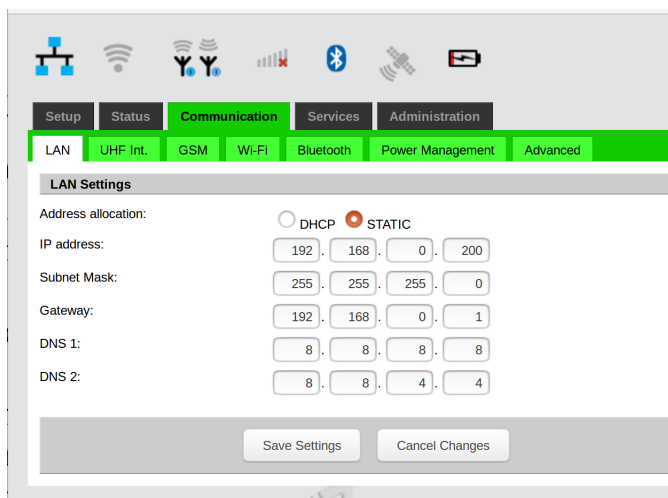
- **via Bluetooth interface:** the device (PC, handheld/pad) should be with Bluetooth interface with PAN profile support. JLink LTE Bluetooth-interface is in visibility mode, has the name “Jlink LTE” and PIN code 0000. When connection is established open the web-browser and enter the address 10.1.11.1:8080.
- **via WiFi interface:** The device (PC, handheld/pad) should be with WiFi interface. JLink LTE WiFi-interface has the name “Jlink LTE” and password “testtest”. When connection is established open the web-browser and enter the address 10.1.10.1:8080.
- **via Ethernet:** JLink LTE LAN static IP adress is 192.168.0.200 and network mask is 255.255.255.0. On the PC connected to the same LAN, open the web browser and enter the address 192.168.0.200:8080. The dialog window appears with login/password request. Enter login and password (jlink/jlink).



Login and password entering

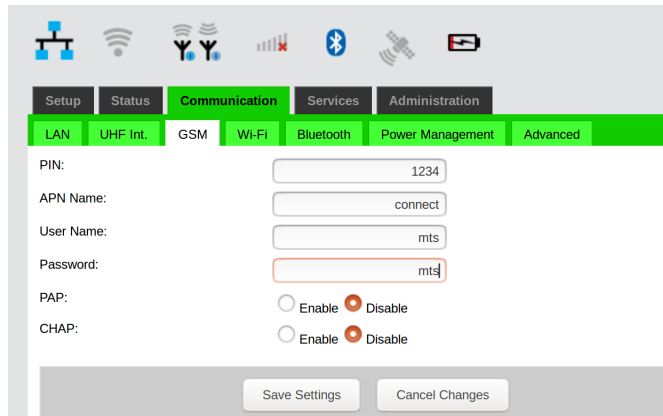
Thereafter the device is ready for setup and configuration.

4. Select the interface which will be used to connect to Internet and configure it. The following interfaces are available:
 - **Ethernet:** Configure Ethernet interface in the Communication/LAN tab. Set the network parameters and reboot the device using Reboot button in the Administration/Management tab see figure below.



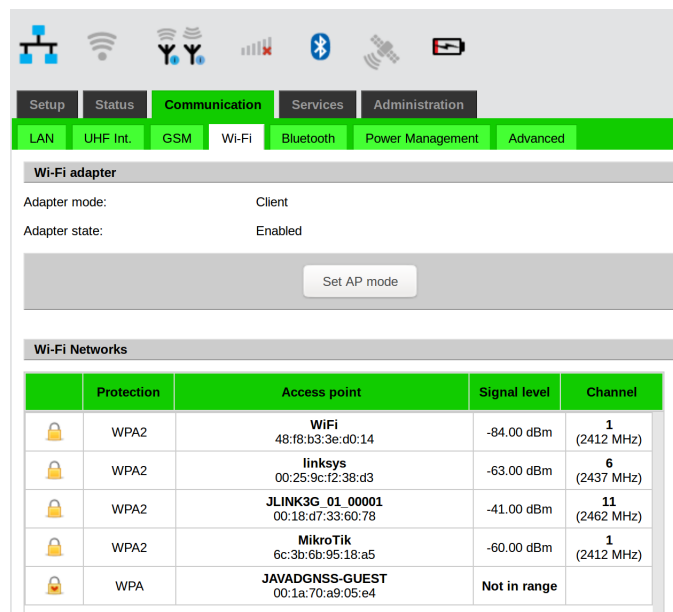
LAN configuration tab

GSM/LTE/4G: Configure this interface using Communication/GSM tab. Set the APN parameters (if necessary) and select the SIM-card slot. In the Communication/Power Management tab activate the interface and wait for registering in the network and Internet access availability. More detailed connection status you can check in Status/GSM tab see below.



GSM configuration tab

WiFi client: In the Communication/WiFi it is necessary to switch the interface to the client mode. In the Communication/Power Management tab turn the WiFi interface on. Select the network you would like to connect in the Communication/WiFi tab, enter password to get access and wait for the connection see below. More detailed connection status you can check in Status/WiFi tab.

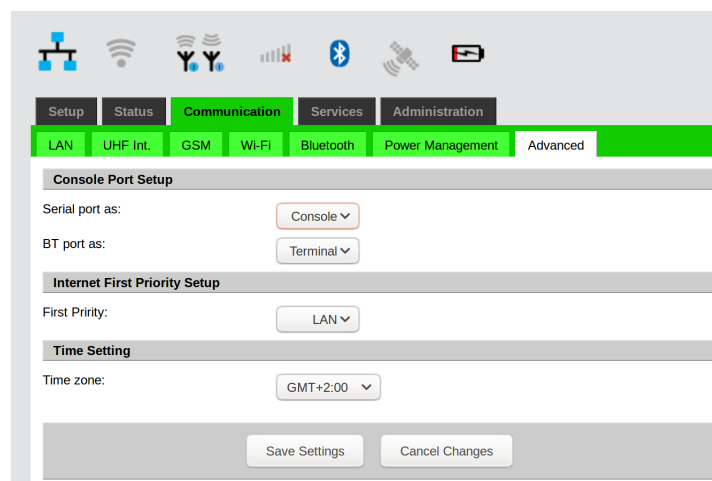


	Protection	Access point	Signal level	Channel
	WPA2	WiFi 48:f8:b3:3e:d0:14	-84.00 dBm	1 (2412 MHz)
	WPA2	linksys 00:25:9c:f2:38:d3	-63.00 dBm	6 (2437 MHz)
	WPA2	JLINK3G_01_00001 00:18:d7:33:60:78	-41.00 dBm	11 (2462 MHz)
	WPA2	MikroTik 6c:3b:6b:95:18:a5	-60.00 dBm	1 (2412 MHz)
	WPA	JAVADGNSS-GUEST 00:1a:70:a9:05:e4	Not in range	

WiFi client configuration tab

Access to Serial port via Network: In the Communication/Advanced tab it is necessary to select Serial port as Console (see figure below) and reboot device from Administration/Management or do power cycle. After reboot the device is ready for connection to serial port CLI interface with username “jlink” password “jLTExXXXXX” where “XXXXXX” is serial number of device which is written in device label. For connecting to JLink LTE serial port needed to setup with following parameters:

- Baudrate 115200
- Parity none
- Data Bits 8
- Stop Bits 1
- Handshake hardware



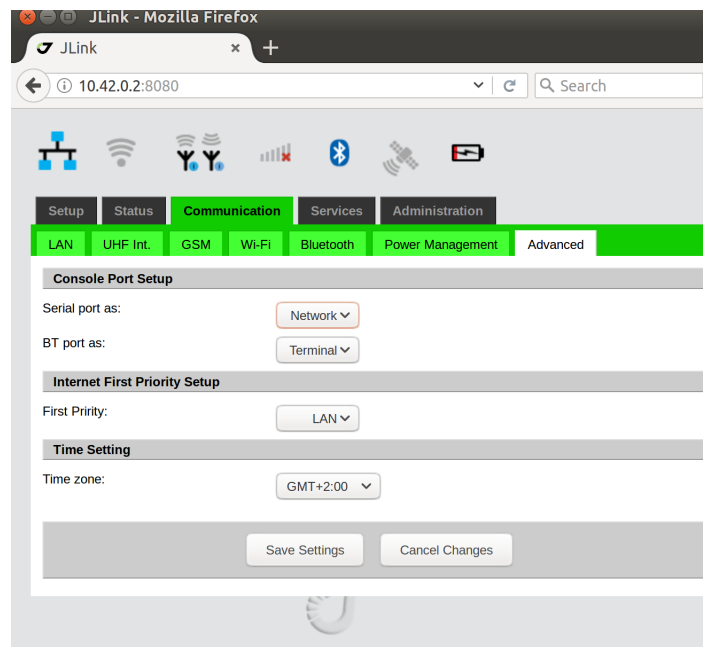
Advanced configuration tab

Access to Serial port via Network:

In the Communication/Advanced tab it is necessary to select Serial port as Network (see figure below) and reboot device from Administration/Management or do power cycle.

After reboot device is ready for telnet connection to serial port using “Ser2Net” as login and “jlink” as password. For connecting to JLink LTE serial port needed to setup with following parameters:

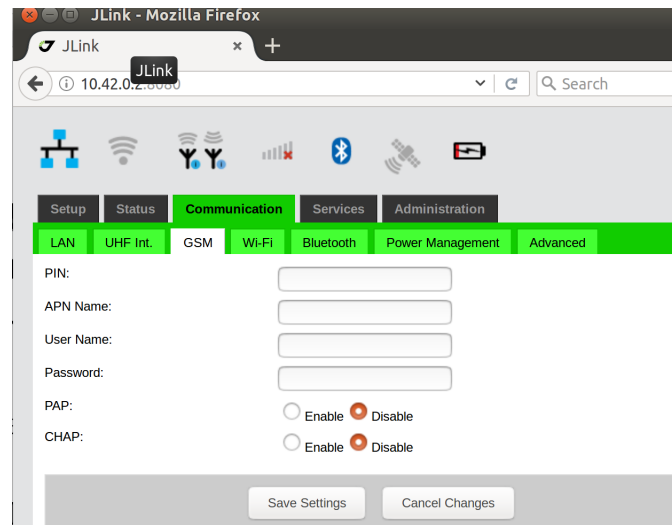
- Baudrate 115200
- Parity none
- Data Bits 8
- Stop Bits 1
- Handshake hardware



Advanced configuration tab

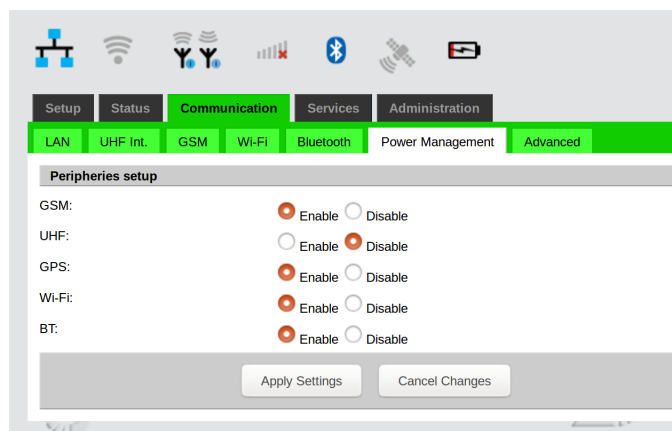
5. HOW TO SETUP JLINK LTE TO PROVIDE RTK DATA RECEIVED VIA NTRIP CLIENT TO SERIAL PORT

1. Connect to JLink LTE via web interface as described above.
2. Configure the Cellular (GSM):
 - In the Communication/GSM tab set the PIN code and APN parameters (if necessary);



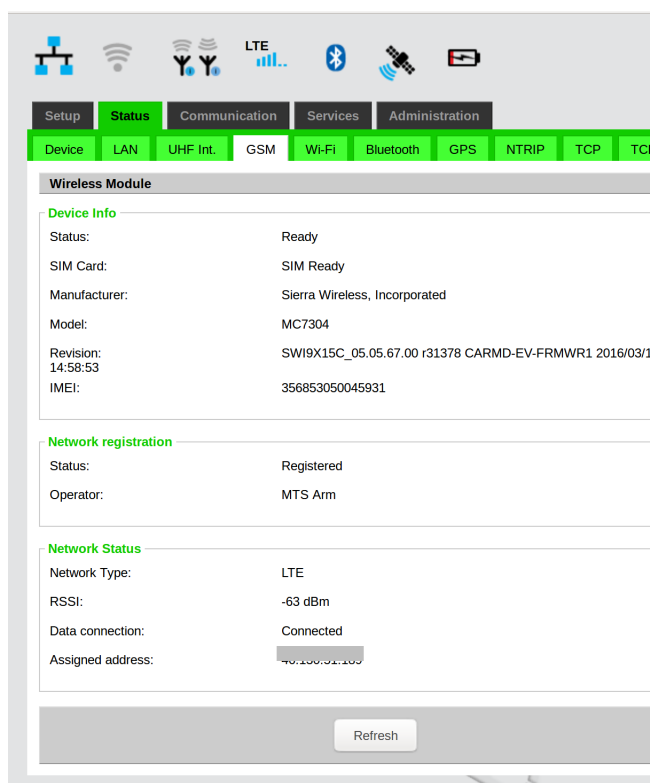
GSM configuration tab

- Use tweezers to install or remove the microSIM card.
- Insert the SIM card to its slot. The first slot from the green top cover is for microSIM, the second slot is for microSD card.
- In the Communication/Power Management tab activate the GSM interface.



Power Management tab

Wait for registering in the network and Internet access availability. The detailed connection status can be checked in the Status/GSM tab.



Wireless Module

Device Info

Status:	Ready
SIM Card:	SIM Ready
Manufacturer:	Sierra Wireless, Incorporated
Model:	MC7304
Revision:	SW19X15C_05.05.67.00 r31378 CARMD-EV-FRMWR1 2016/03/11
IMEI:	356853050045931

Network registration

Status:	Registered
Operator:	MTS Arm

Network Status

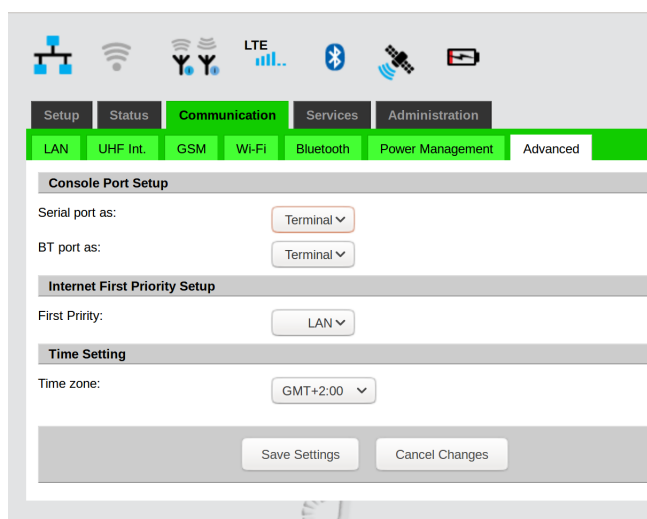
Network Type:	LTE
RSSI:	-63 dBm
Data connection:	Connected
Assigned address:	192.168.1.100

Refresh

GSM Status tab

It is possible also to connect JLink LTE to Internet via LAN or WiFi using any WiFi router, MiFi device or even smartphone configured in hot spot mode.

3. Set up the Serial Port. In the Communication/Advanced tab select “Serial port as” parameter as Terminal. Click Save Settings and wait until finish.



Console Port Setup

Serial port as: Terminal

BT port as: Terminal

Internet First Priority Setup

First Priority: LAN

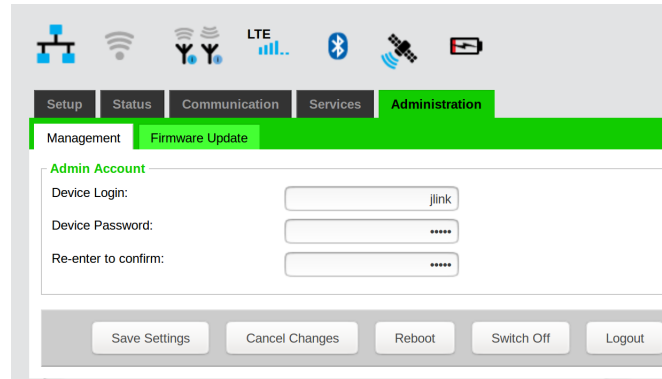
Time Setting

Time zone: GMT+2:00

Save Settings Cancel Changes

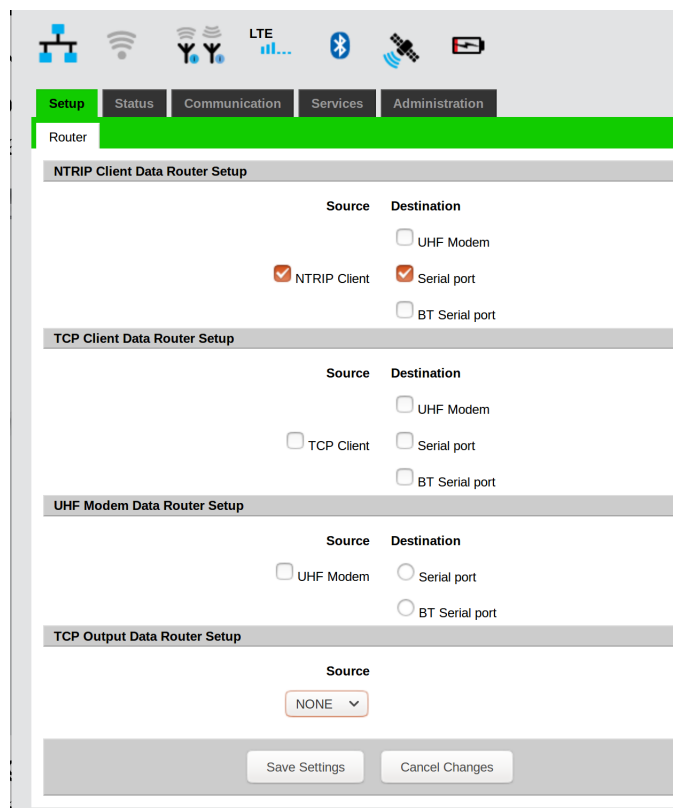
Advanced tab

4. Reboot the device by clicking **Reboot** in the **Administration/Management** tab.



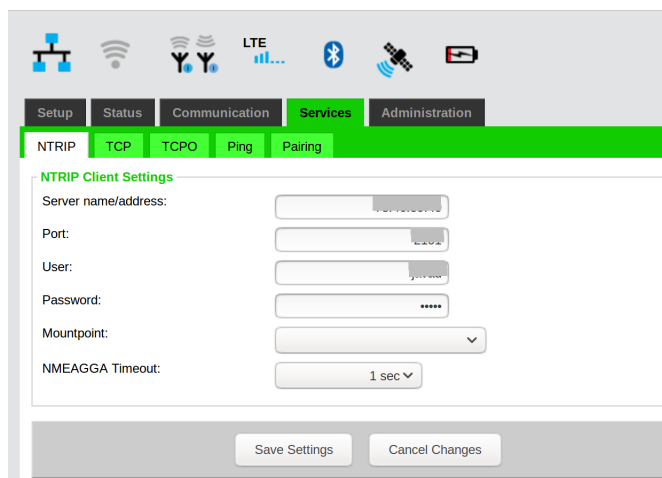
Administration Management tab

5. Set up the Router. In the **Setup/Router** tab select following parameters “NTRIP Client” as Source and “Serial port” as Destination. Click “Save Setting” button and wait until finish.



NTRIP Data Router tab

6. Setup NTRIP Client. In the **Services/NTRIP** tab set following parameters: “Server name/address”, “Port”, “User”, “Password”.



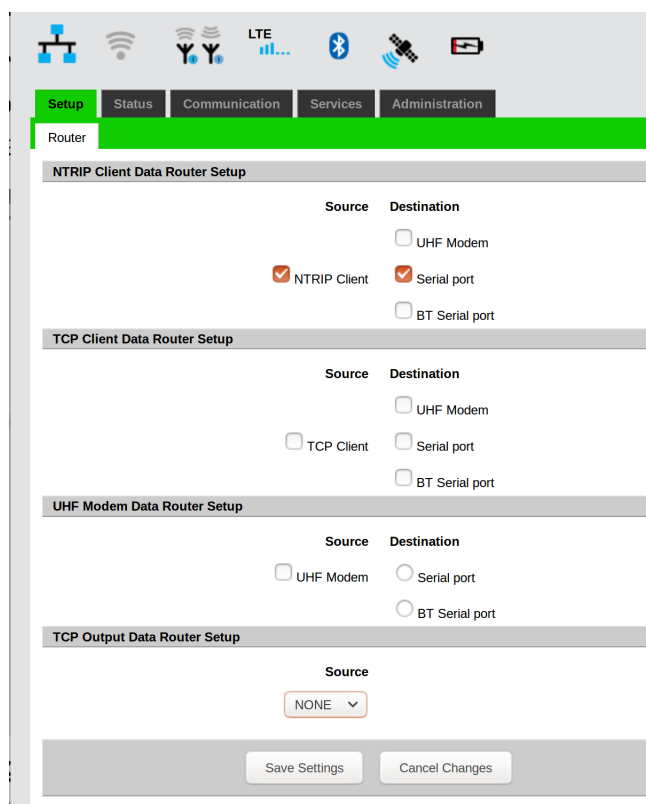
The screenshot shows the 'NTRIP Client Settings' configuration tab. At the top, there are icons for various communication methods: Ethernet, Wi-Fi, UHF, LTE, Bluetooth, and Satellite. Below these are tabs for 'Setup', 'Status', 'Communication', 'Services', and 'Administration'. The 'Services' tab is active, and within it, the 'NTRIP' sub-tab is selected. The 'NTRIP Client Settings' section contains the following fields:

- Server name/address: [Text input field]
- Port: [Text input field]
- User: [Text input field]
- Password: [Text input field with masked characters]
- Mountpoint: [Dropdown menu]
- NMEAGGA Timeout: [Text input field with '1 sec' selected]

At the bottom of the form are two buttons: 'Save Settings' and 'Cancel Changes'.

NTRIP configuration tab

- Click Save Settings and wait until finish.
- Click Update and select Mountpoint .
- Click Save Settings and wait until finish. The detailed connection status can be checked in Status/NTRIP tab:



The screenshot shows the 'Status NTRIP' tab. At the top, there are the same communication method icons as in the previous screenshot. Below them are tabs for 'Setup', 'Status', 'Communication', 'Services', and 'Administration'. The 'Status' tab is active, and within it, the 'Router' sub-tab is selected. The 'NTRIP Client Data Router Setup' section is highlighted. It contains a table with 'Source' and 'Destination' columns:

Source	Destination
☒ NTRIP Client	☐ UHF Modem
	☒ Serial port
	☐ BT Serial port

Below this table are three other sections, each with a 'Source' and 'Destination' column:

- TCP Client Data Router Setup:**
 - Source: ☐ TCP Client
 - Destination: ☐ UHF Modem, ☐ Serial port, ☐ BT Serial port
- UHF Modem Data Router Setup:**
 - Source: ☐ UHF Modem
 - Destination: ☐ Serial port, ☐ BT Serial port
- TCP Output Data Router Setup:**
 - Source:

At the bottom of the form are two buttons: 'Save Settings' and 'Cancel Changes'.

Status NTRIP tab

7. Connect the Serial Port. Use any application to connect serial port of JLink LTE with following parameters:

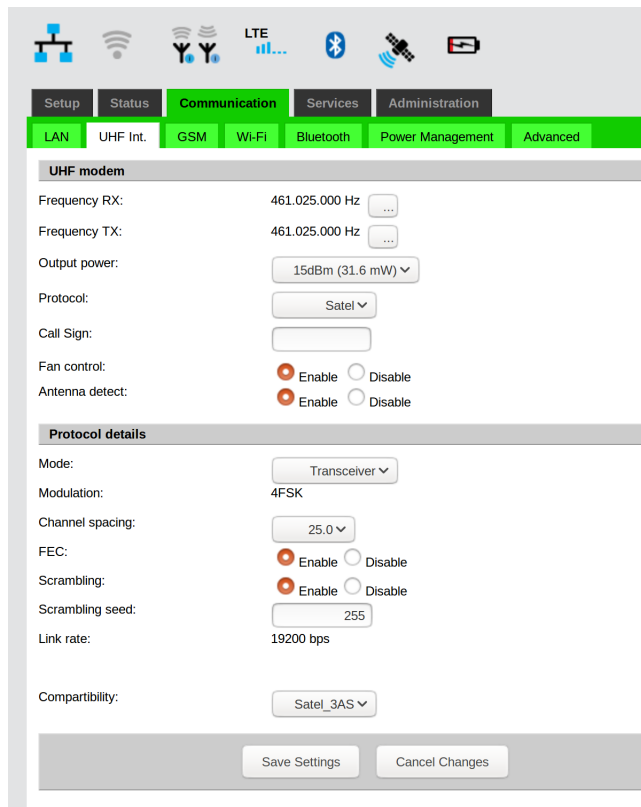
- Baudrate 115200
- Parity none
- Data Bits 8
- Stop Bits 1
- Handshake hardware

6. HOW TO SETUP JLINK LTE TO PROVIDE RTK DATA RECEIVED VIA UHF CHANNEL (IN SATEL MODE) TO SERIAL PORT

1. Connect to JLink LTE via web interface as described above.

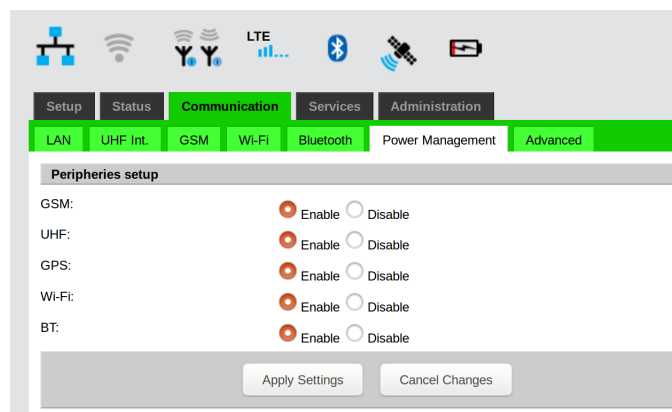
2. UHF configuration in Satel mode:

- In the Communication/UHF Int. tab:
 - select operating frequency or add new frequency to the list
 - select Protocol type Satel
 - select channel bandwidth (spacing) either 25.0 or, 20.0, or 12.5 kHz
 - verify FEC (Forward Error Correction) state is correct



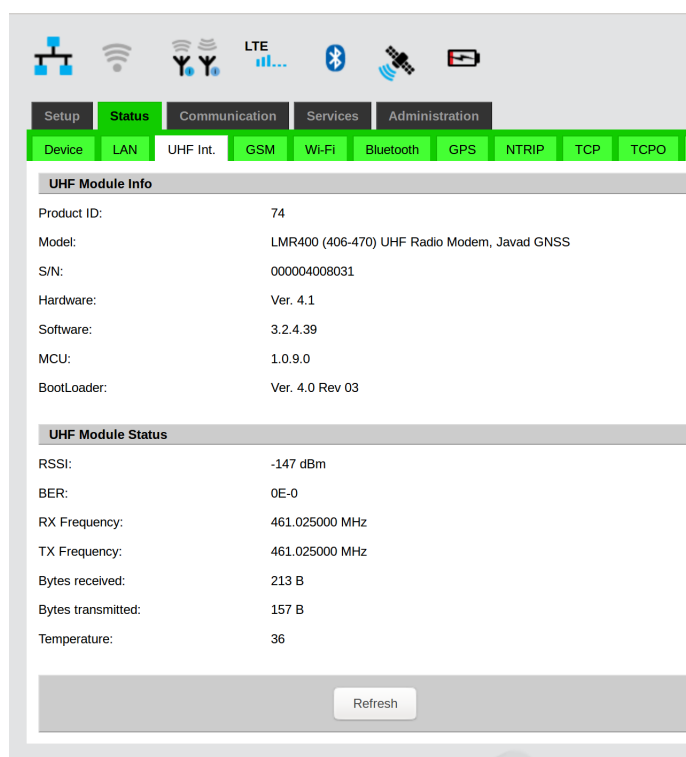
UHF parameters configuration tab

In the Communication/Power Management tab activate the UHF interface:



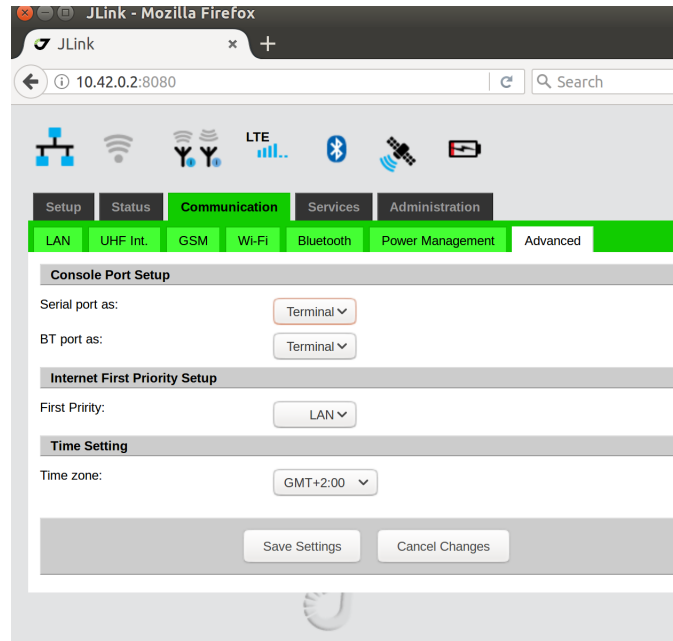
Power Management tab

The detailed connection status can be checked in the Status/UHF int. tab



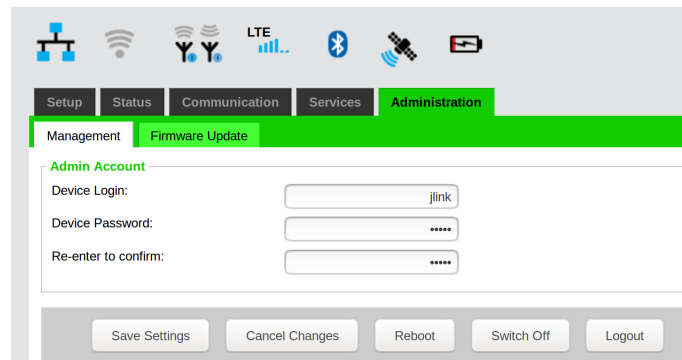
UHF Int. Status tab

3. Setup the Serial Port. In the Communication/Advanced tab select Serial port as parameter as Terminal. Click Save Settings and wait until finish.



Advanced tab

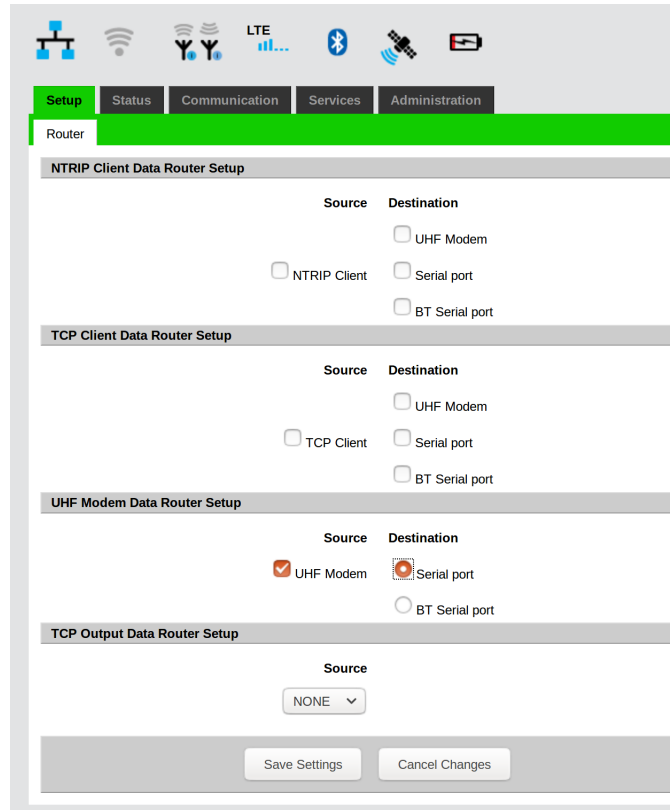
4. Reboot the device by clicking Reboot in the Administration/Management tab.



Administration Management tab

5. Setup the Router. In the Setup/Router tab select the following parameters:

- “UHF Modem” as Source
- “Serial port” as Destination.
- Click Save Settings and wait until finish.



The screenshot displays the 'Router' configuration page in the JAVAD software. The 'Setup' tab is selected, and the 'UHF Modem Data Router Setup' section is active. The 'Source' is set to 'UHF Modem' (checked) and the 'Destination' is set to 'Serial port' (checked). The 'TCP Output Data Router Setup' section shows the 'Source' set to 'NONE'.

Section	Source	Destination
NTRIP Client Data Router Setup	☐ NTRIP Client	☐ UHF Modem ☐ Serial port ☐ BT Serial port
TCP Client Data Router Setup	☐ TCP Client	☐ UHF Modem ☐ Serial port ☐ BT Serial port
UHF Modem Data Router Setup	☒ UHF Modem	☒ Serial port ☐ BT Serial port
TCP Output Data Router Setup	NONE	

Buttons at the bottom: Save Settings, Cancel Changes

UHF Modem Router tab

6. Connect the Serial Port. Use any application to connect serial port of JLink LTE with following parameters:
 Baudrate 115200
 Parity none
 Data Bits 8
 Stop Bits 1
 Handshake hardware

7. HOW TO CONFIGURE TRIUMPH-2 AND JLINK LTE TO PROVIDE TRIUMPH-2 SERVICES THROUGH INTERNET

In this configuration JLink LTE will share its Internet connection (established using the GSM interface) with the TRIUMPH-2 receiver connected to JLink LTE as a WiFi client.

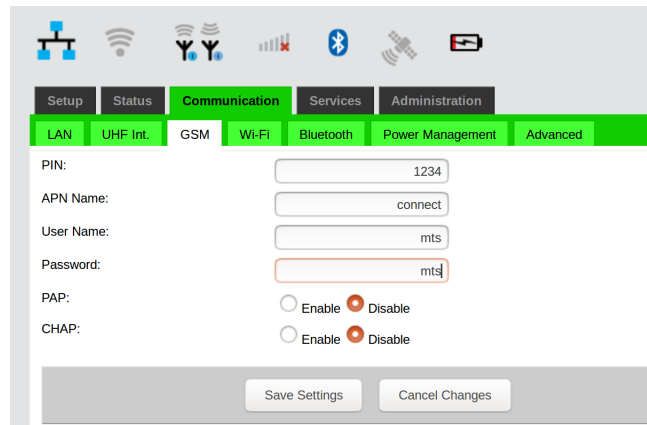
1. Connect to Jlink LTE via web interface.

2. GSM configuration:

- In the Communication/GSM tab set the APN parameters (if necessary) and insert the SIM card to its slot.

NOTE: Ensure the SIM card provides the Static IP.

- In the Communication/Power Management tab activate the GSM interface and wait for registering in the network and Internet access availability. The detailed connection status can be checked in the Status/GSM tab.



GSM configuration tab

3. Setup WiFi configuration:

- In the Communication/WiFi tab click on Set AP mode to switch the interface to the AP mode and set following AP parameters: SSID(WiFi Access point name), Protection (WPA2) and Security passphrase ("password").
- In the Communication/Power Management tab turn the WiFi on.

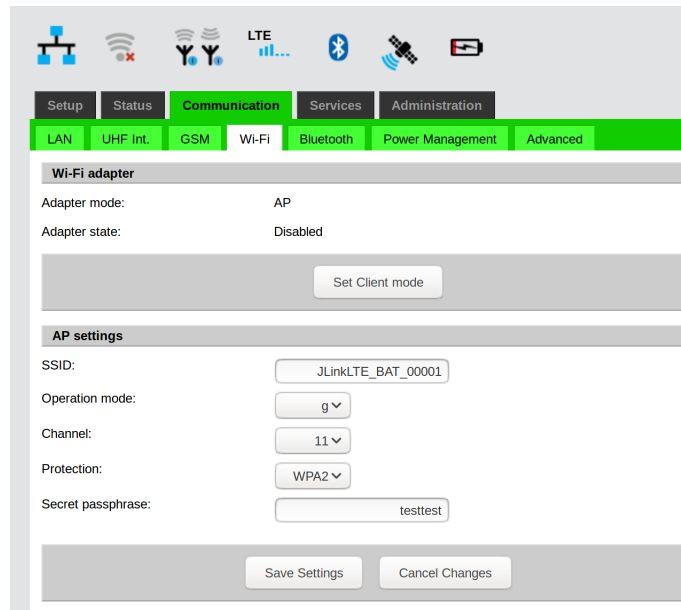
The detailed connection status can be checked in the Status/WiFi tab.

The JLink LTE provides the port forwarding mechanism from internet (GSM interface) to WiFi clients.

Port forwarding mechanism works in a following way: JLink LTE receives data from internet and redirects it to its WiFi clients. Data packets received by 1110-1119 ports will be redirected to Wi-Fi client which IP address is 10.1.10.110.

Data packets received by 1120-1129 ports will be redirected to WiFi client which IP address is 10.1.10.120. To receive the redirected data of JLink LTE the TRIUMPH-2 receiver should be connected to JLink LTE through WiFi interface and TRIUMPH-2's IP address should be set 10.1.10.110 or 10.1.10.120.

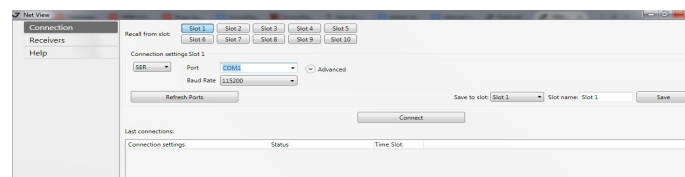
NOTE: The default gateway is 10.1.10.1.



WiFi configuration tab

The TRIUMPH-2 configuration steps are the following:

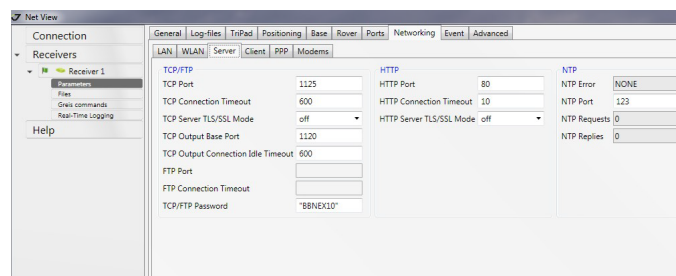
1. Connect TRIUMPH-2 to PC via USB or Bluetooth interface and start NetView.
2. Click Connection, select the connection using port, specify the COM port the receiver is connected to. Click Connect to connect to the receiver.



NetView connection tab

3. Select the receiver from the list of the connected receivers and click Parameters/Networking/Server, to set up the Service port.

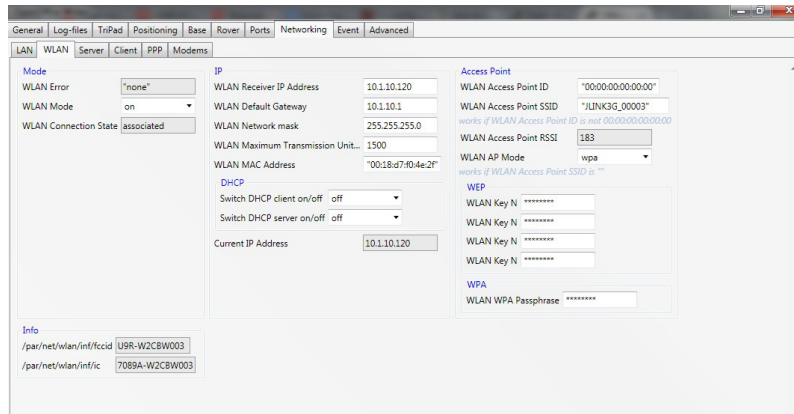
- Set the TCP/FTP parameter: TCP Port (1125).
- Set the TCP/FTP parameter: TCP Output Base Port (1120).
- Click Apply.



NetView Server tab

Select the receiver from the list of the connected receivers and click Parameters/Networking/WLAN, to setup the WiFi connection.

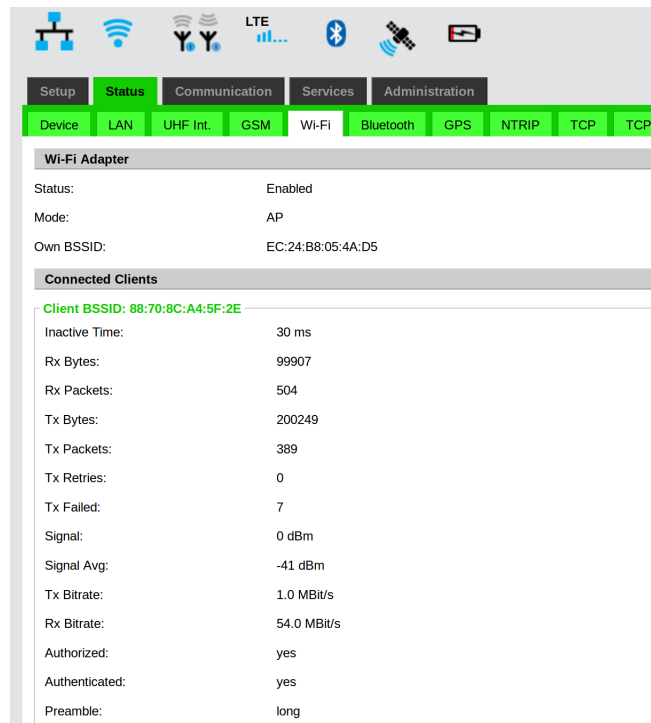
- Set the following IP parameters: WLAN Receiver IP Address (10.1.10.120), WLAN Default Gateway (e.g, 10.1.10.1), and WLAN Network Mask (e.g, 255.255.255.0).
- Set the AccessPoint parameters: WLAN Access Point ID (enter SSID of JLink LTE), WLAN AP mode(wpa).
- Set the WPA parameter: WLAN WPA Passphrase (enter passphrase of JLink LTE).
- Set the WLAN Mode to on
- Click Apply.



The screenshot shows the 'WLAN' configuration tab in the NetView interface. It includes sections for Mode, IP, DHCP, Access Point, WEP, and WPA. The IP section is configured with 10.1.10.120 for the receiver IP, 10.1.10.1 for the default gateway, and 255.255.255.0 for the network mask. The Access Point section shows the SSID as 'JLINK3G_00003' and the mode as 'wpa'. The WPA section has a passphrase field.

NetView WLAN configuration tab

After restating the device you can check WiFi connection using Status/WiFi tab of web interface of JLink LTE.



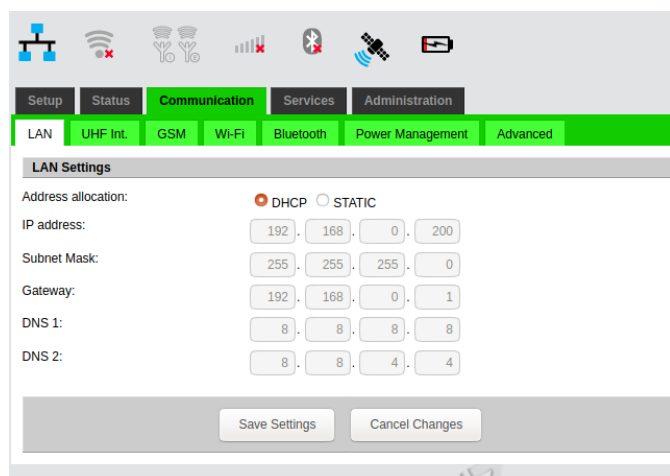
The screenshot shows the 'Status' tab with the 'Wi-Fi' sub-tab selected. It displays the 'Wi-Fi Adapter' status as 'Enabled' and 'Mode' as 'AP'. Below this, it shows 'Connected Clients' with a list of client statistics for the BSSID 88:70:8C:A4:5F:2E, including Inactive Time, Rx/Tx Bytes/Packets, Retries, Failed, Signal, and Bitrate.

WiFi status tab

Now TRIUMPH-2 can provide services trough Internet by 1120-1125 port.

8. HOW TO UPDATE FIRMWARE OF HPT435BT JL

1. Connect to HPT435BT JL via web interface..
2. DHCP configuration:
 - In the Communication/LAN tab. Select the “Address allocation” parameter to DHCP (see Picture 1).
 - Apply settings clicking “save settings” button.



LAN Settings

Address allocation: ☒ DHCP ☐ STATIC

IP address: 192 . 168 . 0 . 200

Subnet Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 0 . 1

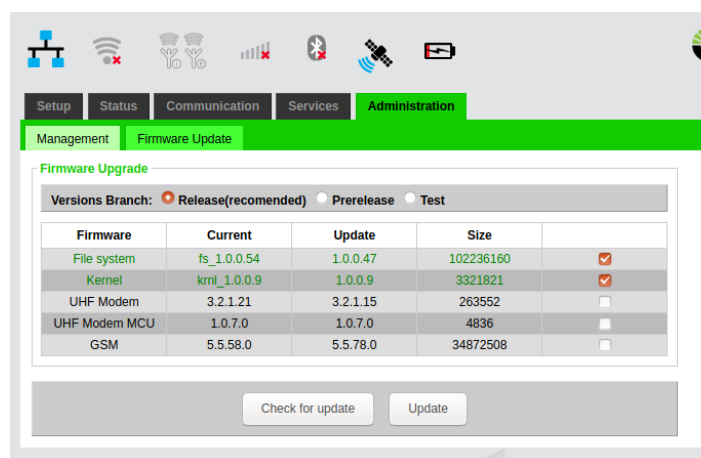
DNS 1: 8 . 8 . 8 . 8

DNS 2: 8 . 8 . 4 . 4

Save Settings Cancel Changes

LAN configuration tab

3. FW Update:
 - In the /Administration/Firmware Update tab select Versions Branch and Firmware's for update.
 - Click “Check for update” button to see version of FW.
 - Click “Update” button and wait until process will finished.



Firmware Upgrade

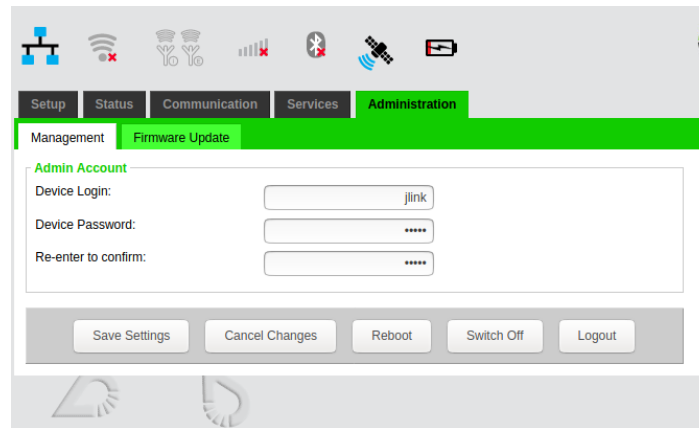
Versions Branch: ☒ Release(recommended) ☐ Prerelease ☐ Test

Firmware	Current	Update	Size	
File system	fs_1.0.0.54	1.0.0.47	102236160	☒
Kernel	kernel_1.0.0.9	1.0.0.9	3321821	☒
UHF Modem	3.2.1.21	3.2.1.15	263552	☐
UHF Modem MCU	1.0.7.0	1.0.7.0	4836	☐
GSM	5.5.58.0	5.5.78.0	34872508	☐

Check for update Update

FW update tab

4. Reboot the Modem: in the /Administration/Management tab click “Reboot” . After the reboot is complete, the device is ready for use.



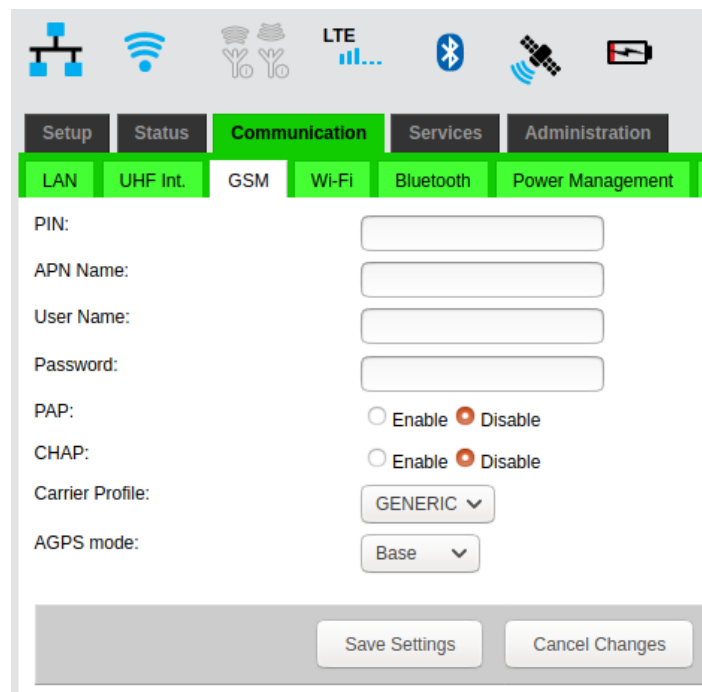
The screenshot shows the JAVAD web interface with the 'Administration' tab selected. Under the 'Management' sub-tab, the 'Admin Account' section is visible. It contains three input fields: 'Device Login' (with 'jlink' entered), 'Device Password' (with '****' entered), and 'Re-enter to confirm' (with '****' entered). Below these fields are five buttons: 'Save Settings', 'Cancel Changes', 'Reboot', 'Switch Off', and 'Logout'.

Management tab

9. HOW TO SETUP JLINK LTE INTERNAL GNSS MODULE

1. Connect to Jlink LTE via web interface.
2. If using GNSS “Base” or “Assisted” modes is necessary to insert the SIM card.
3. GSM/GNSS configuration in the Communication/GSM tab (see picture below):
 - Set up the AGPS mode if needed.
 - Set up the GSM network configuration parameters if needed.

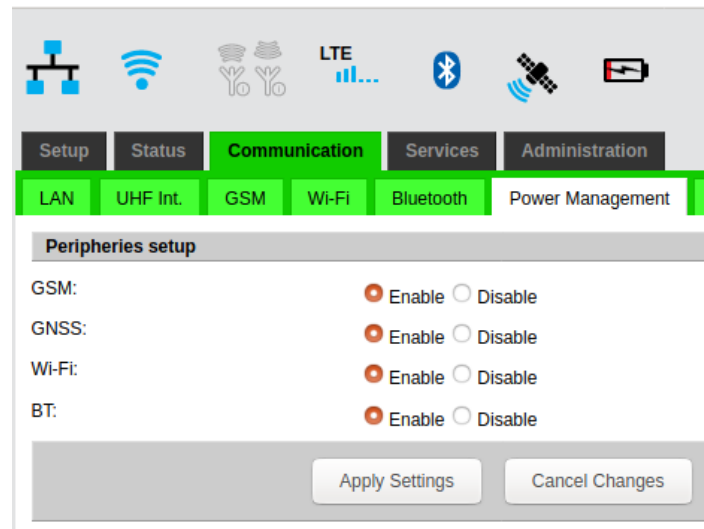
NOTE: These steps are not needed if the GNSS mode is Standalone.



The screenshot shows the JAVAD web interface with the 'Communication' tab selected. Under the 'GSM' sub-tab, the configuration fields are visible. These include: 'PIN:', 'APN Name:', 'User Name:', 'Password:', 'PAP:' (with radio buttons for 'Enable' and 'Disable', where 'Disable' is selected), 'CHAP:' (with radio buttons for 'Enable' and 'Disable', where 'Disable' is selected), 'Carrier Profile:' (with a dropdown menu showing 'GENERIC'), and 'AGPS mode:' (with a dropdown menu showing 'Base'). At the bottom of the form are two buttons: 'Save Settings' and 'Cancel Changes'.

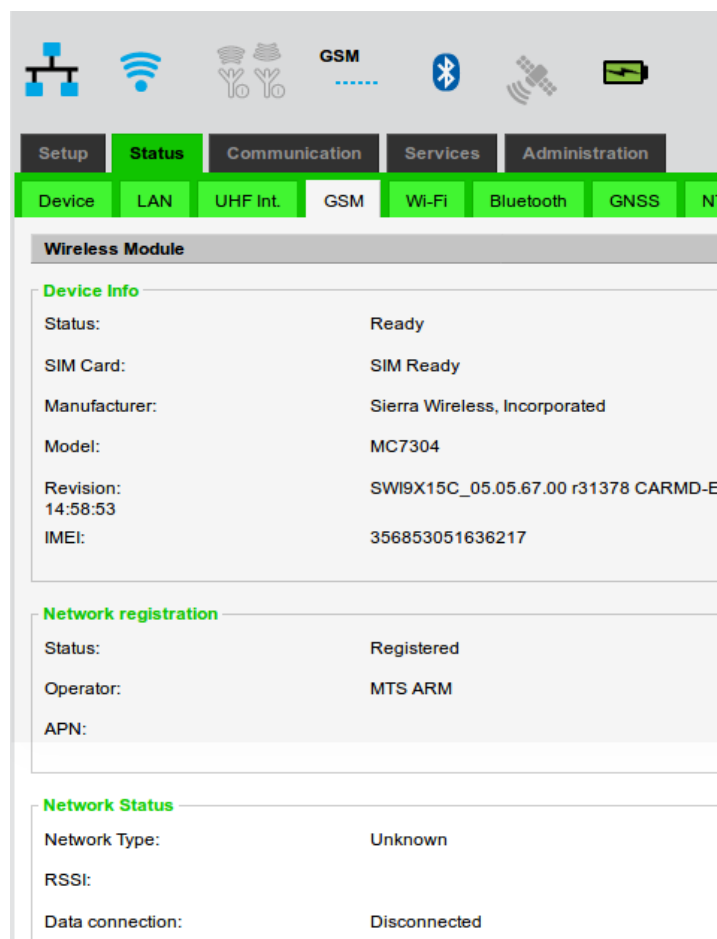
GSM parameters configuration tab

In the Communication/Power Management tab activate the GSM/GNSS module (see picture below):



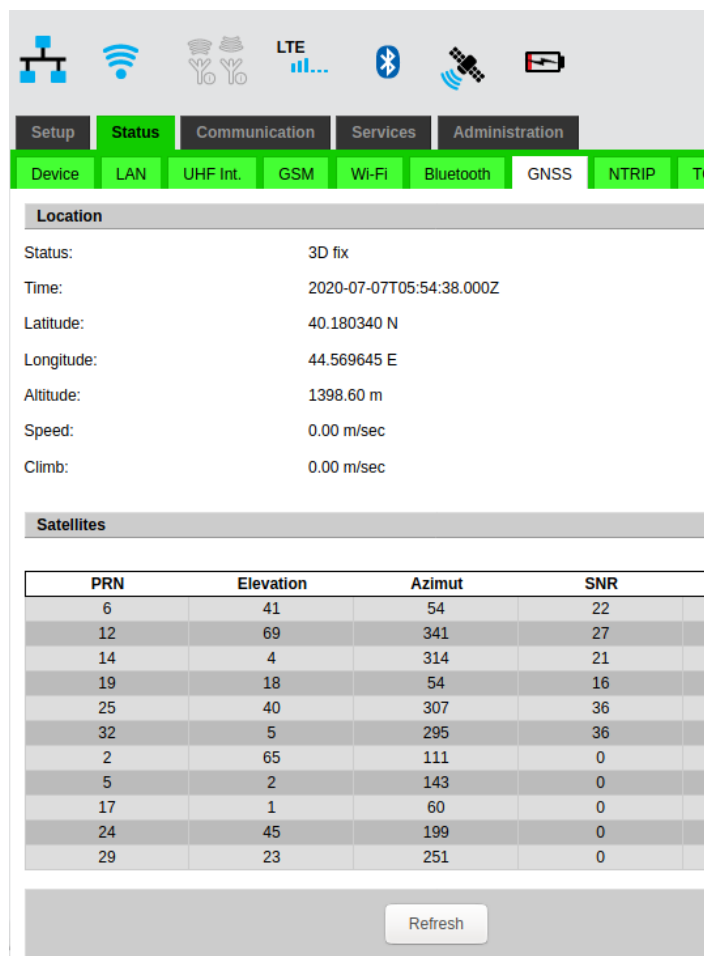
Power Management tab

The detailed connection status can be checked in the Status/GSM tab (see picture below):



JLink LTE GSM. Status tab

The detailed status of the GNSS module can be checked in Status/GNSS tab (see picture below):



The screenshot shows the JAVAD Status/GNSS tab. At the top, there are icons for various communication and status features: a network diagram, Wi-Fi, UHF, LTE, Bluetooth, GNSS, and a battery level indicator. Below these icons are five main tabs: Setup, Status (highlighted), Communication, Services, and Administration. Under the Status tab, there are sub-tabs: Device, LAN, UHF Int., GSM, Wi-Fi, Bluetooth, GNSS (highlighted), NTRIP, and TC. The GNSS sub-tab is active, displaying location data and a table of satellites.

Location

Status: 3D fix
Time: 2020-07-07T05:54:38.000Z
Latitude: 40.180340 N
Longitude: 44.569645 E
Altitude: 1398.60 m
Speed: 0.00 m/sec
Climb: 0.00 m/sec

Satellites

PRN	Elevation	Azimuth	SNR
6	41	54	22
12	69	341	27
14	4	314	21
19	18	54	16
25	40	307	36
32	5	295	36
2	65	111	0
5	2	143	0
17	1	60	0
24	45	199	0
29	23	251	0

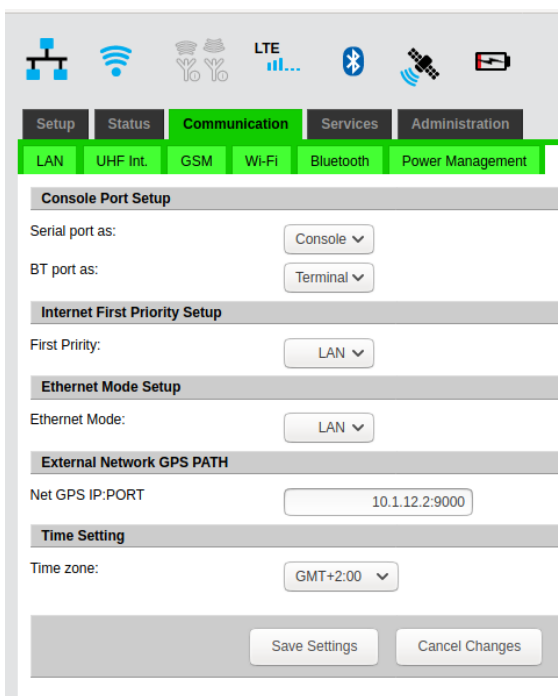
Refresh

GNSS Status tab

10. HOW TO SETUP JLINK LTE WITH EXTERNAL GNSS VIA NETWORK

1. Connect to Jlink LTE via web interface.
2. Setup the External GNSS path (IP address and PORT).
 - In the Communication/Advanced tab set the correct path of the GNSS module (parameter Net GPS IP: PORT see at the picture below.)
 - Reboot the device from Administration/Management tab.

The detailed status of GNSS module can be checked in the Status/GNSS tab (see picture below).



Communication | Setup | Status | Services | Administration

LAN | UHF Int. | GSM | Wi-Fi | Bluetooth | Power Management

Console Port Setup

Serial port as:

BT port as:

Internet First Priority Setup

First Priority:

Ethernet Mode Setup

Ethernet Mode:

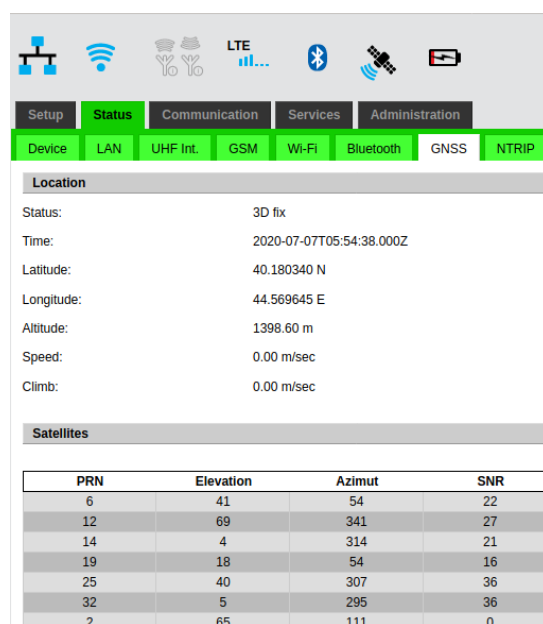
External Network GPS PATH

Net GPS IP:PORT

Time Setting

Time zone:

Advanced configuration tab



Status | Setup | Communication | Services | Administration

Device | LAN | UHF Int. | GSM | Wi-Fi | Bluetooth | GNSS | NTRIP

Location

Status: 3D fix

Time: 2020-07-07T05:54:38.000Z

Latitude: 40.180340 N

Longitude: 44.569645 E

Altitude: 1398.60 m

Speed: 0.00 m/sec

Climb: 0.00 m/sec

Satellites

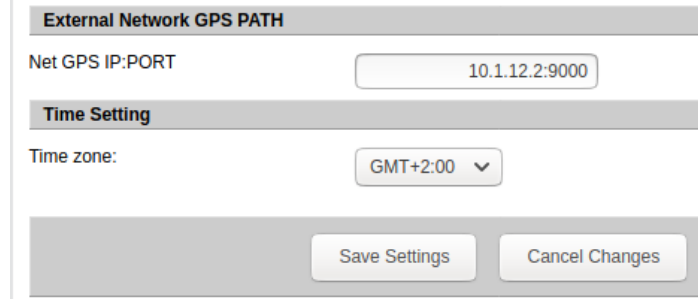
PRN	Elevation	Azimuth	SNR
6	41	54	22
12	69	341	27
14	4	314	21
19	18	54	16
25	40	307	36
32	5	295	36
2	65	111	0

GNSS Status tab

11. HOW TO SETUP JLINK LTE ETHERNET BRIDGE

1. Connect to Jlink LTE via a web interface.
2. Setup the Ethernet as a Bridge.

Reboot the device from Administration/Management tab.



External Network GPS PATH

Net GPS IP:PORT

Time Setting

Time zone:

Advanced configuration tab

3. After the reboot, the device can be connected to JlinkLTE via LAN cable. The LAN configuration of the device needs the DHCP or static IP.
 - If the static IP will be used, the IP address must be 10.1.12.2.
 - In case when configured the DHCP, the JlinkLTE will provide the IP address 10.1.12.2 to the device.
- In the Bridge mode the port forwarding mechanism also is enabled (port from 1160 to 1169 will forward to device's IP).

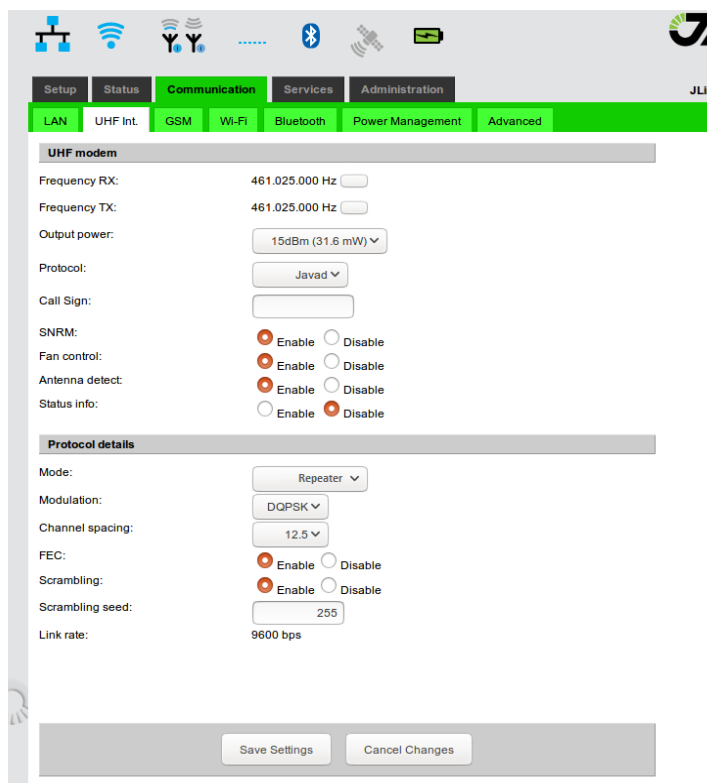
12. HOW TO SETUP JLINK LTE TO PROVIDE UHF REPEATER FUNCTIONALITY

1. Connect to Jlink LTE via a web interface.
2. UHF configuration in Javad protocol:

In the Communication/UHF Int. tab. :

- select rx and tx frequencies (add new frequency if needed)
- select Output Power
- select Protocol type Javad
- select protocol mode as Repeater
- select Modulation
- select channel bandwidth (spacing)
- select FEC
- select Scrambling with seed

All configuration parameters must be according to Base and Rover.



UHF modem

Frequency RX: 461.025.000 Hz

Frequency TX: 461.025.000 Hz

Output power: 15dBm (31.6 mW)

Protocol: Javad

Call Sign:

SNRM: ☒ Enable ☐ Disable

Fan control: ☒ Enable ☐ Disable

Antenna detect: ☒ Enable ☐ Disable

Status info: ☐ Enable ☒ Disable

Protocol details

Mode: Repeater

Modulation: DQPSK

Channel spacing: 12.5

FEC: ☒ Enable ☐ Disable

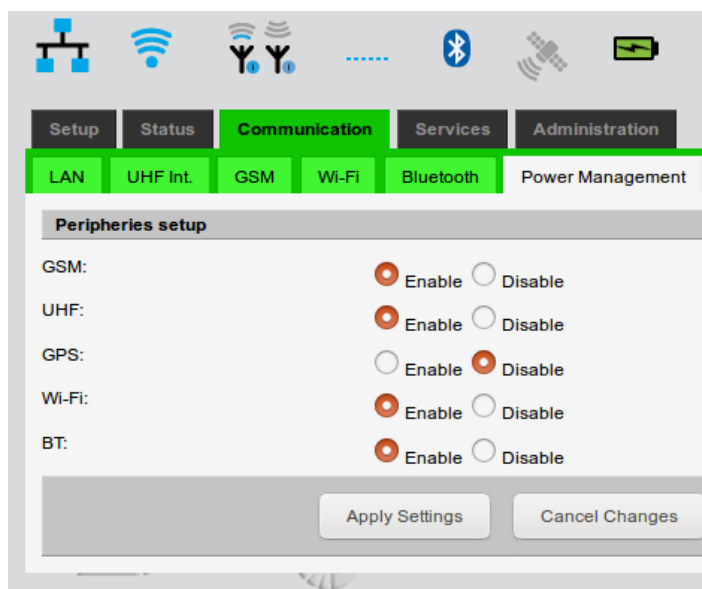
Scrambling: ☒ Enable ☐ Disable

Scrambling seed: 255

Link rate: 9600 bps

UHF parameters configuration tab

In the Communication/Power Management tab activate the UHF interface. Click Apply Settings.



Peripherals setup

GSM: ☒ Enable ☐ Disable

UHF: ☒ Enable ☐ Disable

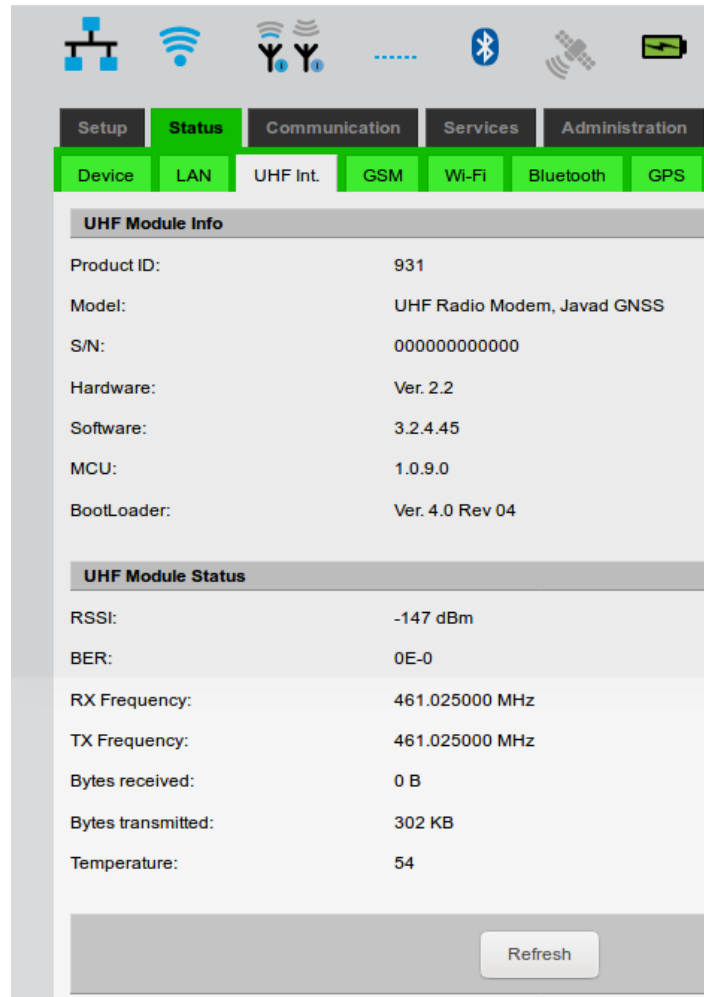
GPS: ☐ Enable ☒ Disable

Wi-Fi: ☒ Enable ☐ Disable

BT: ☒ Enable ☐ Disable

Power Management tab

The detailed connection status can be checked in the Status/UHF tab (see picture below):



The screenshot shows the JAVAD web interface with the 'Status' tab selected. Under the 'Status' tab, the 'UHF Int.' sub-tab is active. The interface displays two sections: 'UHF Module Info' and 'UHF Module Status'.

UHF Module Info	
Product ID:	931
Model:	UHF Radio Modem, Javad GNSS
S/N:	000000000000
Hardware:	Ver. 2.2
Software:	3.2.4.45
MCU:	1.0.9.0
BootLoader:	Ver. 4.0 Rev 04

UHF Module Status	
RSSI:	-147 dBm
BER:	0E-0
RX Frequency:	461.025000 MHz
TX Frequency:	461.025000 MHz
Bytes received:	0 B
Bytes transmitted:	302 KB
Temperature:	54

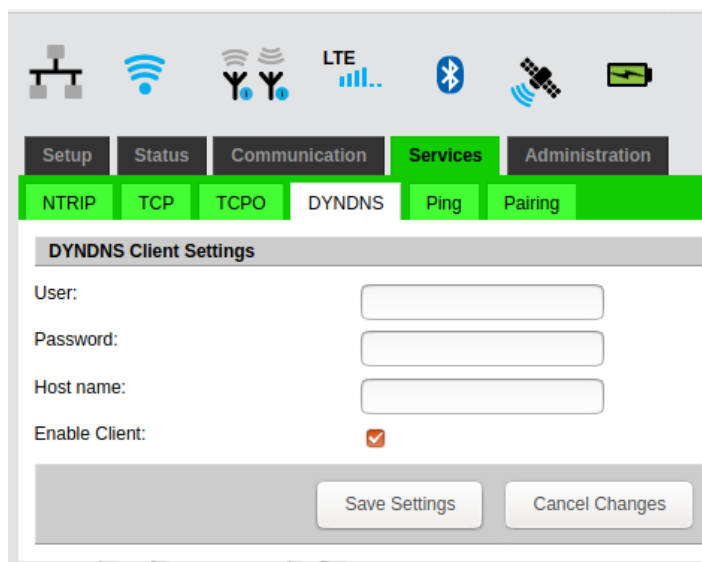
A 'Refresh' button is located at the bottom right of the status section.

UHF Int. Status tab

Make sure, UHF is not used on Setup/Routing tab.

13. HOW TO SETUP JLINK LTE WITH GYNDNS CLIENT

1. Connect to Jlink LTE via web interface (For more detail see document “JLink LTE User Manual”).
2. Setup DYNDNS Client:
 - In the Services/DYNDNS tab set correct configuration parameters (parameters are user, password and host name see picture 1.)
 - After filling client parameters, make “Enable Client” flag and click “Save settings” to save it.



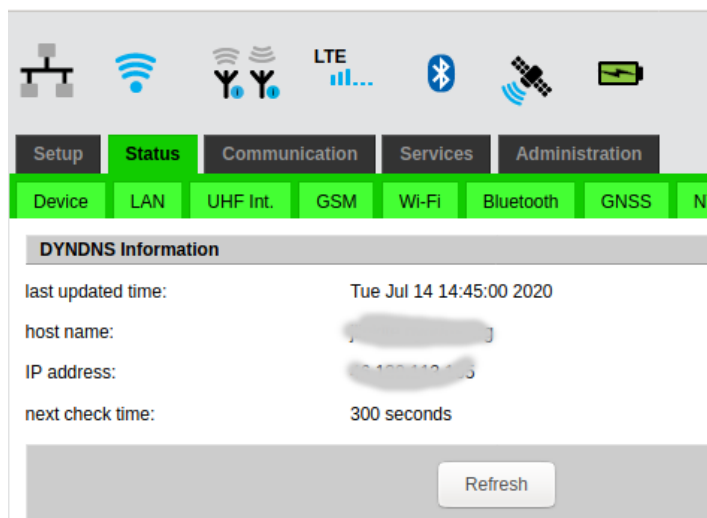
The screenshot shows the 'Services' tab selected in the top navigation bar. Under 'Services', the 'DYNDNS' sub-tab is active. The 'DYNDNS Client Settings' section contains the following fields:

- User:
- Password:
- Host name:
- Enable Client: ☒

At the bottom of the form are two buttons: 'Save Settings' and 'Cancel Changes'.

DYNDNS configuration tab

The detailed connection status can be checked in Status/DYNDNS. tab (see below)



The screenshot shows the 'Status' tab selected in the top navigation bar. Under 'Status', the 'DYNDNS' sub-tab is active. The 'DYNDNS Information' section displays the following status information:

- last updated time: Tue Jul 14 14:45:00 2020
- host name:
- IP address:
- next check time: 300 seconds

At the bottom of the form is a 'Refresh' button.

Status tab

14. SPECIFICATIONS

4.1. 4G cellular module

4G LTE Mini Card (option 1)	LTE, DC-HSPA+, HSPA+, EDGE, GPRS, GSM and CDMA networks
Technology:	
LTE	Bands: 1 (2100 MHz), 3 (1800MHz), 7 (2600 MHz), 8 (900 MHz), 20 (800 MHz) Data Rates: Category 3 Downlink 100 Mbps (20 MHz bandwidth), 50 Mbps (10 MHz bandwidth) Uplink 50 Mbps (20 MHz bandwidth), 25 Mbps (10 MHz bandwidth)
UMTS (WCDMA), HSDPA, HSUPA, HSPA+,DC-HSPA+	Bands: 1 (2100 MHz), 2 (1900 MHz), 5 (850 MHz), 6 (800 MHz), 8 (900 MHz) Data Rates: HSPA+ rates Downlink up to 42 Mbps (category 24) Uplink up to 5.76 Mbps (category 6)
GSM, GPRS, EDGE	GSM 850 (850 MHz), EGSM 900 (900 MHz), DCS 1800 (1800 MHz), PCS 1900 (1900 MHz) Data Rates: EDGE throughput up to 236 kbps
4G LTE Mini Card (option 2)	LTE, DC-HSPA+, HSPA+, EDGE, GPRS, GSM and CDMA networks
Technology:	
LTE	Bands: 2 (1900 MHz), 4 (AWS) (1700/2100MHz), 5 (850 MHz), 13 (700 MHz), 17 (700 MHz), 25 (1900 MHz G Block) Data Rates: Category 3 Downlink 100 Mbps (20 MHz bandwidth), 50 Mbps (10 MHz bandwidth) Uplink 50 Mbps (20 MHz bandwidth), 25 Mbps (10 MHz bandwidth)
CDMA (EVDO Rel. 0 and Rel.A)	Bands: BC0 (Cellular 800 MHz), BC1 (PCS 1900 MHz), BC10 (Secondary 800 MHz) Data Rates: CDMA IS-856 (1xEV-DO Release A) Up to 3.1 Mbps forward channel Up to 1.8 Mbps reverse channel CDMA IS-2000 Up to 153 kbps, simultaneous forward and reverse channels
UMTS (WCDMA), HSDPA, HSUPA, HSPA+,DC-HSPA+	Bands: 1 (2100 MHz), 2 (1900 MHz), 4 (AWS 1700/2100 MHz), 5 (850 MHz),8 (900 MHz) Data Rates: HSPA+ rates Downlink up to 42 Mbps (category 24) Uplink up to 5.76 Mbps (category 6)
GSM, GPRS, EDGE	GSM 850 (850 MHz), EGSM 900 (900 MHz), DCS 1800 (1800 MHz), PCS 1900 (1900 MHz) Data Rates: EDGE throughput up to 236 kbps

4.2. UHF/VHF Radio (optional)

Frequency Range	406-470 MHz/138-174 MHz
Channel Bandwidth	25/20/12.5/6.25 kHz
Modulation	DBPSK/DQPSK/D8PSK/D16QAM/4FSK/GMSK
Transmitter Output Power	1W (+30 dBm)
Communication Mode	Half duplex, simplex, repeater

4.2. ISM Radio (optional)

Frequency Range	902-928 MHz (USA)/ 915-928 MHz (Australia)/ 868-870 MHz (EU) with 25/12.5 kHz CS
Modulation	GMSK
Data Rate of Radio Interface (USA/Australia)	64000 bps
Data Rate Radio Interface (EU)	9600 bps
Transmitter Output Power	1W (+30 dBm)
Communication Mode	Half duplex, simplex, repeater

4.3. Beacon Receiver (optional)

Frequency Range	283.5- 325 kHz
User Data Rates	50, 100, 200 bps (manual or Auto selection)
Sensitivity	1.5 mV/m for 6 dB SNR (200 bps)

4.4. GNSS Receiver

Tracking Channels	GPS/GLONASS L1
Signals Tracked	C/A Code
Cold / Warm Start	42 / 30 seconds
Sensitivity for Reacquisition	- 161dBm

4.5. Communication Ports

Wi-Fi 2.4 and 5 GHz (IEEE 802.11 a, b, g, n, d,e,i)
Full-duplex 10BASE-T/100BASE-TX Ethernet port
Bluetooth 4.1 Compliance and CSA2 Support Dual-Mode Bluetooth and Bluetooth LE
High Speed USB 2.0 configurable as Device or Host port
MicroSD card slot (fully sealed)
Serial port configurable as RS232/RS422/RS485

4.6. Pinout of JLink LTE power and communication port

Pin #	Signal Name	I/O	Description	Pin #	Signal Name	I/O	Description
1	TX+/RTS_OUT	O	Transmit Data positive line (RS-422) / Request to Send (RS-232)	14	USB0_VBUS	PWR	Power line (USB)
2	RX+/CTS_IN	I	Receive Data positive line (RS-422) / Clear to Send (RS-232)	15	USB0_ID	I	USB0 ID line
3	DTR_OUT	O	Data Terminal Ready (RS-232)	16	ETD-	O	Transmit Data negative line (LAN)
4	USB0_DP	I/O	Data Positive line (USB)	17	ERD-	I	Receive Data negative line (LAN)
5	USB0_DM	I/O	Data Negative line (USB)	18	PWR_IN	PWR	+5.5 to +36 VDC Power Input
6	ELED+	O	LED line (LAN)	19	GND	PWR	Power Ground
7	ETD+	O	Transmit Data positive line (LAN)	20	GND	PWR	Power Ground
8	ERD+	I	Receive Data positive line (LAN)	21	GND	PWR	Power Ground
9	PWR_IN	PWR	+5.5 to +36 VDC Power Input	22	RESERVE	-	Not used. Reserve
10	TX-/TX_OUT	O	Transmit Data negative line (RS-422) / Transmit Data (RS-232)	23	RESERVE	-	Not used. Reserve
11	RX-/RX_IN	I	Receive Data negative line (RS-422) / Receive Data (RS-232)	24	RESERVE	-	Not used. Reserve
12	DSR_IN	I	Data Set Ready (RS-232)	25	RESERVE	-	Not used. Reserve
13	DCD_OUT	O	Data Carrier Detect (RS-232)	26	PWR_IN	PWR	+5.5 to +36 VDC Power Input

15. FAQ

The following are some of the most encountered receiver problems.

The receiver port used for connection is not in Command mode.

- Connect your receiver and computer using a free port and start NetView.
- Change the Input for the port used for connection to “Command”.

The receiver does not lock on to satellites for a long period of time.

- See “Managing Receiver Options” for details on how to check current options.
- Order a new OAF with the desired options activated to enable or extend validity of the corresponding receiver options. Contact your dealer or visit the JAVAD GNSS website for details.
- Refer to the NetView Software Manual for a detailed description of options.

The receiver tracks too few satellites.

- The elevation mask value is too high (above 15 degrees).
- Lower the elevation mask. See “TriPad Configuration” for information on setting the elevation mask.

The measuring is conducted near obstructions (tree canopy, tall buildings, etc.).

- Check that the Multipath Reduction boxes have been enabled.
- Connect your receiver to a PC using a free port and start NetView.
- Click enable Multipath reduction and click Apply.
- Move to an area free of obstructions, if applicable.

The receiver cannot obtain Code Differential and/or RTK solutions.

- Incorrect Base coordinates entered.
- Specify the correct coordinates for the Base station using NetView or another suitable field data collection software.

The receiver is not configured as a Base or Rover.

- If the receiver should function as a Base, ensure it has the proper configuration.
- If the receiver should function as a Rover, ensure it has the proper configuration.
- The corresponding receiver options may be disabled or expired.
- See “Managing Receiver Options” for details on how to check current options.
- Order a new OAF with the desired options activated to enable or extend validity of the corresponding receiver options. Contact your dealer or visit the JAVAD GNSS website for details.
- Refer to the NetView Software Manual for a detailed description of options.

There are not enough common satellites.

- To obtain a fixed solution, the Base and Rover should track at least five common satellites.
- Ensure that both the Rover and Base receivers use the same, and updated, almanac.
- Check the elevation masks of the Rover and Base receivers; they should be the same. See “TriPad Configuration” for information on setting the elevation mask.

A discrepancy exists between the differential standards used at the Base and Rover receivers.

- Ensure the Base and Rover receivers use the same corrections input/output format:
- Connect your receiver to a PC and start NetView&Modem.
- Click the Ports tab. Use the same input/output format for both receivers.

Poor satellite geometry (PDOP/GDOP values are too high).

- Conduct your measuring when PDOP values are low.

The elevation mask is above 15 degrees.

- Lower the elevation mask.

The transmitting and/or receiving antenna may be improperly connected.

- Check that the radio modem's antenna is securely and properly connected to the antenna connector.
- Check that the radio modem's antenna is undamaged. If damaged, contact your JAVAD GNSS dealer to replace the antenna.

The specified baud rate is incompatible with the baud rates the receiver supports.

- The baud rate is the rate at which the receiver transmits differential messages to the receiver and vice versa. Change the baud rate to that which your receiver supports.

The Base and Rover receivers use different radio link parameters.

- Configure the Base and Rover radio receivers according to the procedures listed in the applicable section.

The distance between the Base and Rover is too far.

- Close the distance between the Base and Rover.
- Use repeaters to increase radio coverage.
- There may be a source of radio interference that disrupts radio communications.
- Change the RF channel (if possible).
- Use a spectrum analyzer to detect the radio characteristics of the interfering signal and change your system's configuration accordingly.
- Remove the source of jamming signal or relocate your radio antennas (if possible).

The receiver does not start data logging.

- The memory option is disabled or expired.
- Check that the memory option is enabled. For details, see "Checking an OAF".
- The receiver's memory has no free space.
- Download and/or delete data files to free up space for new files. Use the AFRM feature.



JAVAD GNSS, Inc.
900 Rock Ave, San Jose, CA 95131, USA

LIMITED WARRANTY TERMS AND CONDITION

Last updated on February 1, 2026

PRODUCT LIMITED WARRANTY

Subject to the following terms and conditions, JAVAD GNSS, Inc. ("JAVAD") warrants that the **GNSS OEM, radio, survey and geospatial equipment** purchased from JAVAD ("Covered Product") are designed and manufactured to conform to JAVAD published specifications and that all parts are free from defects in material and workmanship under normal uses for a period of time from the date of shipment directly to the buyer or if through a dealer, then the date of shipment to the dealer. The warranty periods are as follows: **one (1) year for all OEM, radio and geospatial equipment. Accessories**, such as but not limited to, batteries, chargers, SIM cards, USB devices and cables **have a ninety (90) day warranty**. This warranty extends only to the original buyer and not to any successive buyer, even if a later buyer purchases it from the original owner within the warranty period.

Within the warranty period, JAVAD will repair or replace (up to a total cost limited to the total value of the Covered Product) free of charge, any part proving to be defective in material or workmanship or issue a credit for the Covered Product, so long as the Covered Product is returned to JAVAD under an RMA and qualifies for such, under these warranty terms. All warranty repairs and services must be performed by JAVAD or a designated affiliated JAVAD entity (authorized repair).

A repaired or replaced Covered Product is warranted for 90 days from the date of return shipment to the buyer or for the balance of the original warranty period, whichever is longer. These remedies are the buyer's exclusive remedies for breach of warranty.

All expenses up to the value of the Covered Product which are related to replacing or repairing a defective part under this warranty will be assumed by JAVAD except for the following expenses, which shall be the sole responsibility of buyer:

WARRANTY EXCLUSIONS:

This warranty **does not apply** to any costs, repairs or services for the following:

1. Service calls to correct the set-up or to explain usage of the Covered Product.
2. Repairs necessary due to use that is other than normal use or as described by JAVAD.
3. Damages resulting from misuse, abuse, accidents, alterations, or improper set-up.
4. Corrective work necessary because of unauthorized repairs.
5. Operation outside environmental and other specifications of the Covered Product.

PRODUCT SOFTWARE

Covered Product software, whether built into hardware circuitry as firmware, provided as a standalone computer software product, embedded in flash memory, or stored on magnetic or other media, is licensed solely for use with or as an integral part of the Product and is not sold.



If accompanied by a separate end-user license agreement (“EULA”), use of any such software will be subject to the terms of such end-user license agreement (including any differing limited warranty terms, exclusions, and limitations), which shall control the terms and conditions set forth in this limited warranty. All capitalized terms in this paragraph are defined in the applicable EULA. During the limited warranty period, you will be entitled to receive such updates or Fixes to the Covered Product software that JAVAD releases and makes commercially available and for which it does not charge separately, subject to the procedures for delivery to purchasers of JAVAD products generally. If you have purchased the Covered Product from a JAVAD Authorized dealer rather than from JAVAD directly, JAVAD may, at its option, forward the software Fix to the JAVAD Authorized dealer for final distribution to you. Minor Updates, Major Upgrades, new products, or substantially new software releases, as identified by JAVAD, are expressly excluded from this update process and limited warranty. Receipt of software Fixes or other enhancements shall not serve to extend the limited warranty period.

HOW TO OBTAIN WARRANTY SERVICE

In the event repairs are needed, the buyer must contact JAVAD support within 10 calendar days upon discovery of defect, malfunction, or nonconformity.

If JAVAD determines the Covered Product is under warranty and qualifies for repair or replacement, then an RMA is issued for shipment to JAVAD at the buyer’s expense. A return shipment of the repaired or replaced Covered Product will be at JAVAD’s expense. If the warranty does not apply, then the return shipment of the repaired product will be at the buyer’s expense.

All returns should be insured, properly packaged and shipped in a manner that prevents further damages. JAVAD is not liable for lost or misplaced shipments. If the Covered Product is under warranty and no warranty exclusions apply, then JAVAD will loan an equivalent product, if available, free of charge, for the period of time that the repairs are being made, subject to a required signed loan agreement. Otherwise, JAVAD may offer to rent equipment, if available, for use while the product is being assessed and/or repaired.

LIMITATION OF DAMAGES:

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, IF APPLICABLE, IMPLIED WARRANTIES UNDER ARTICLE 35 OF THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY OUT OF THE OWNERSHIP, USE, OR OPERATION OF THE PRODUCTS, REGARDLESS OF WHETHER SUCH DAMAGES ARE PREDICATED OR BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE BUT ARE NOT LIMITED TO LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, OR SERVICES, THE CLAIMS OF THIRD PARTIES, INCLUDING CUSTOMERS AND INJURY TO PROPERTY. THIS LIMITATION DOES NOT APPLY TO CLAIMS FOR PERSONAL INJURY. SOME STATES DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS. IN SUCH STATES, THE LIMITS IN THIS PARAGRAPH AND THE PRECEDING PARAGRAPH MAY NOT APPLY.

LIMITATION OF DAMAGES:

THE FOREGOING WARRANTIES ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, IF APPLICABLE, IMPLIED WARRANTIES UNDER ARTICLE 35 OF THE UNITED NATIONS CONVENTION ON CONTRACTS FOR THE INTERNATIONAL SALE OF GOODS. IN NO CASE SHALL THE COMPANY BE LIABLE FOR ANY SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING DIRECTLY OR INDIRECTLY OUT OF THE OWNERSHIP, USE, OR OPERATION OF THE PRODUCTS, REGARDLESS OF WHETHER SUCH DAMAGES ARE PREDICATED OR BASED UPON BREACH OF WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL THEORY. SUCH DAMAGES INCLUDE BUT ARE NOT LIMITED TO LOSS OF PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT, FACILITIES, OR SERVICES, THE CLAIMS OF THIRD PARTIES, INCLUDING CUSTOMERS AND INJURY TO PROPERTY. THIS LIMITATION DOES NOT APPLY TO CLAIMS FOR PERSONAL INJURY. SOME STATES DO NOT ALLOW LIMITS ON WARRANTIES OR ON REMEDIES FOR BREACH IN CERTAIN TRANSACTIONS. IN SUCH STATES, THE LIMITS IN THIS PARAGRAPH AND THE PRECEDING PARAGRAPH MAY NOT APPLY.

No employee of JAVAD, or any other party, is authorized to make any warranty in addition to those made in this document. This warranty allocates the risks of product failure between the Company and the buyer.

This allocation is recognized by both parties and is reflected in the price of the goods. The buyer acknowledges that it has read this warranty, understands it, and is bound by its terms. This limited warranty is governed by the laws of the State of California, without reference to its conflict of law provisions or the U.S. Convention on Contracts for the International Sale of Goods.

OFFICIAL LANGUAGE

THE OFFICIAL LANGUAGE OF THESE TERMS AND CONDITIONS IS ENGLISH. IN THE EVENT OF A CONFLICT BETWEEN ENGLISH AND OTHER LANGUAGE VERSIONS, THE ENGLISH LANGUAGE SHALL CONTROL.

THE AUSTRALIAN CONSUMER LAW

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. JAVAD's warranty (set out above) is in addition to any mandatory rights and remedies that you may have under the Australian Consumer Law



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