

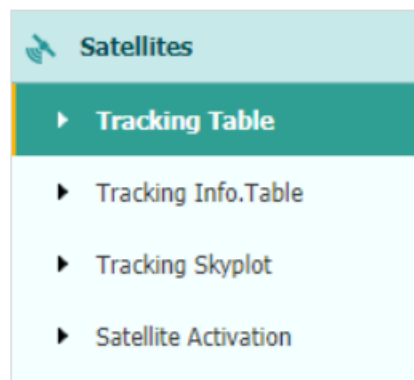
4.1.3 Google Map Submenu

Tap this submenu to show the location of the receiver on Google map.



4.2 Satellites Menu

Use the Satellites menu to view satellite tracking details and enable/disable GPS, GLONASS, BDS and Galileo constellations. These menus include tabular and graphical displays to provide all required information on satellite tracking status.



4.2.1 Tracking Table Submenu

Provides the status of satellites tracked in general, such as the satellite ID, satellite type, altitude angle, azimuth angle, L1 SNR, L2 SNR, L5 SNR and enable/disable status of each one.

Tracking Table ×									
All ☒ GPS ☐ GLONASS ☐ BDS ☐ GALILEO ☐ SBAS ☐ QZSS ☐									
SV	Type	Elevation Angle	Azimuth Angle	L1 SNR	L2 SNR	L5 SNR	B1C SNR	B2A SNR	Enabled
3	GPS	21	282	40.000	40.850	30.880	0.000	0.000	Yes
4	GPS	15	318	40.030	36.800	27.800	0.000	0.000	Yes
16	GPS	45	242	44.820	39.450	0.000	0.000	0.000	Yes
26	GPS	74	318	48.720	43.430	36.160	0.000	0.000	Yes
27	GPS	12	188	34.690	35.890	26.250	0.000	0.000	Yes
29	GPS	23	50	41.370	36.580	0.000	0.000	0.000	Yes
31	GPS	55	44	45.450	41.970	0.000	0.000	0.000	Yes
32	GPS	35	149	42.840	38.490	30.140	0.000	0.000	Yes
1	GLONASS	52	211	41.760	46.170	0.000	0.000	0.000	Yes
2	GLONASS	40	313	47.100	46.320	0.000	0.000	0.000	Yes
8	GLONASS	14	174	36.530	43.730	0.000	0.000	0.000	Yes
12	GLONASS	41	300	45.760	49.200	0.000	0.000	0.000	Yes
21	GLONASS	22	94	37.800	44.160	0.000	0.000	0.000	Yes
1	BDS	45	140	39.830	42.710	44.970	0.000	0.000	No
2	BDS	35	235	35.420	43.410	42.250	0.000	0.000	No
3	BDS	50	199	40.270	44.410	43.470	0.000	0.000	Yes

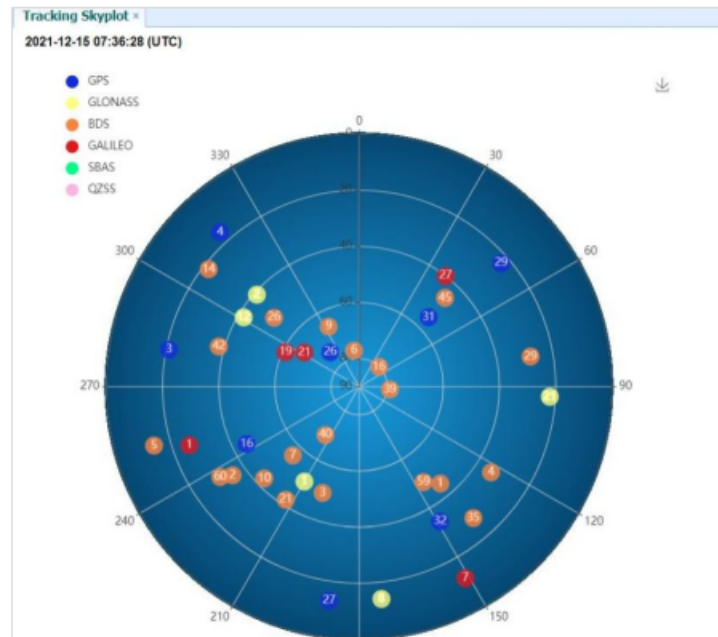
4.2.2 Tracking Info. Table Submenu

The following figure is an example of satellite track diagram page. Users can determine the satellite types and the corresponding SNR of L-band carriers to be displayed in any combination.



4.2.3 Tracking Skyplot Submenu

The following figure is an example of Skyplot page.



4.2.4 Satellite Activation Submenu

Use this menu to enable or disable satellites.

Satellite Activation

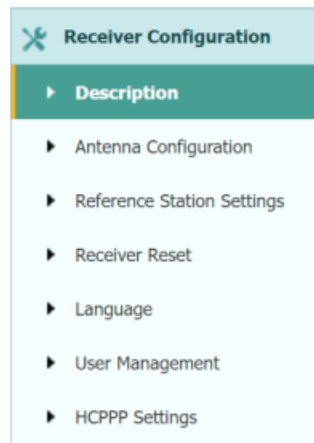
GPS GLONASS BDS GALILEO QZSS SBAS

Enable All Disable All

Satellite Id	Enable	Satellite Id	Enable
1	☒	2	☒
3	☒	4	☒
5	☒	6	☒
7	☒	8	☒
9	☒	10	☒
11	☒	12	☒
13	☒	14	☒
15	☒	16	☒
17	☒	18	☒
19	☒	20	☒
21	☒	22	☒
23	☒	24	☒
25	☒	26	☒
27	☒	28	☒

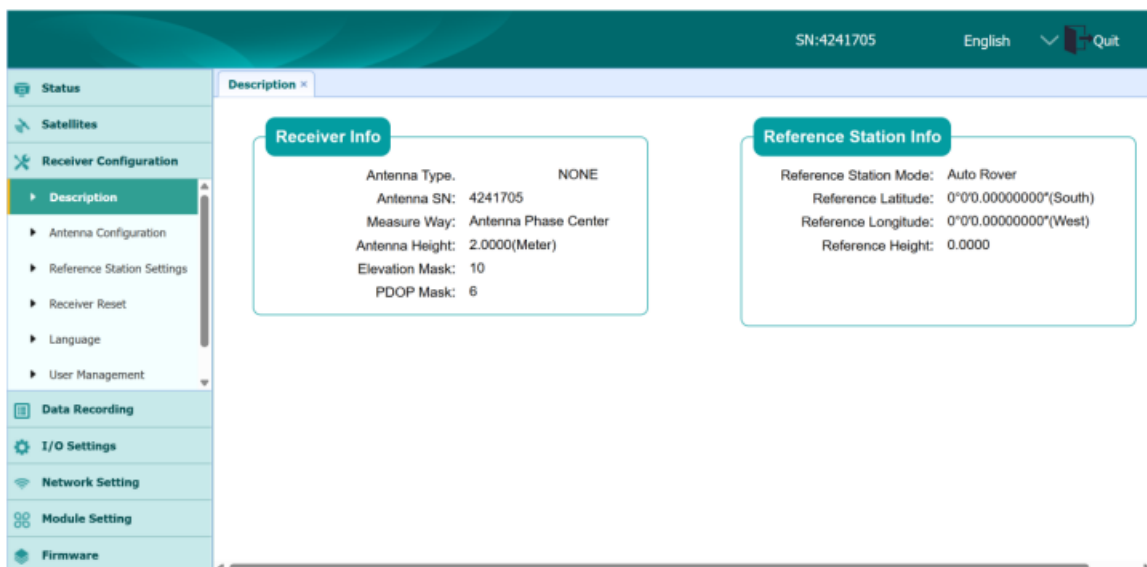
4.3 Receiver Configuration Menu

Use this menu to configure settings such as the antenna type and height, elevation mask and PDOP setting, the reference station coordinates, receiver resetting and web interface language:



4.3.1 Description

This submenu shows the receiver information and reference station information, including antenna related information, elevation mask angle, reference station work mode and position, etc.



4.3.2 Antenna Configuration Submenu

Use this screen to configure all the items related to the GNSS antenna. You must enter the correct values for all antenna-related fields, because the choices you make affect the accuracy for logged data and broadcast correction data significantly:

The screenshot shows the 'Antenna Configuration' submenu. The left sidebar contains a list of menu items: Status, Satellites, Receiver Configuration (expanded), Description, Antenna Configuration (selected), Reference Station Settings, Receiver Reset, Language, User Management, Data Recording, I/O Settings, Network Setting, Module Setting, and Firmware. The main area displays the 'Antenna Configuration' form with the following fields:

- Measure Way: Antenna Phase Center (dropdown)
- Antenna manufacturer: GEOMATE (dropdown)
- Antenna Type: (dropdown)
- Antenna SN: 4241705 (text input)
- Antenna Height: 2.0000 (text input) (Meter)
- Elevation Mask: 10 (text input)
- PDOP Mask: 6 (text input)

A 'Save' button is located at the bottom right of the form.

4.3.3 Reference Station Settings Submenu

Use this screen to configure settings such as the station coordinates and the broadcast station identifiers. You must enter accurate information in these fields, as this data affects the accuracy of logged data files and broadcast correction data significantly:

For Reference Station Mode:

There are three modes available:

- (1) **Auto Rover:** The receiver will serve as a rover after this mode is enabled, and then receive correction data through the working mode set last time.

Reference Station Settings x

Reference Station Mode: Auto Rover

Save

Sample for Average

Positioning Constraint: ☒ Single Solution Coordinates ☐ Fixed Solution Coordinates

Sampling Amount: 300 0%

Start Stop

(2) **Auto Base:** The receiver will serve as a base after this mode is enabled, and then broadcast correction data based on coordinate inputted by user or obtained through autonomous positioning automatically.

Status

Satellite

Receiver Configuration

Antenna Configuration

Reference Station Settings

Receiver Reset

Language

User Management

ICPPP Settings

Reference Station Settings

Reference Station Mode: Auto Base

Base Station Name: 9999999

Base Station ID: 9999999

Reference Latitude: 31 9 34.59536444 N S

Reference Longitude: 121 10 42.49352449 E W

Reference Height: 50.4336

Save

Sample for Average

Positioning Constraint: ☒ Single Solution Coordinates ☐ Fixed Solution Coordinates

Sampling Amount: 300 0%

Start Stop

Coordinates transfer threshold value(Meter): 0

Save

Base list

Add Save Delete Modify

ID	Height	Latitude	Longitude
1	15.8100	31 9 58.23544000 N	121 17 15.28542028 E W

(3) **Manual Base:** The receiver will serve neither as a base nor a rover after this mode is enabled. Users need to configure the receiver manually.

For Reference Latitude and Reference Longitude:

The screenshot shows the 'Manual Base' configuration screen. At the top, 'Reference Station Mode' is set to 'Manual Base'. Below this are input fields for 'Base Station Name' (9999999), 'Base Station ID' (9999999), 'Reference Latitude' (31° 0' 34.5636444" N), 'Reference Longitude' (121° 10' 42.4932449" E), and 'Reference Height' (50.4336). There are 'Use Current Position' and 'Save' buttons. Below the main form is a 'Sample for Average' section with 'Positioning Constraint' (Single Solution Coordinates selected), 'Sampling Amount' (300 and 0% inputs), and 'Start' and 'Stop' buttons.

There are mainly three methods to enter the reference coordinates and shown as follows:

Acquire Current Position: Click this button to acquire current position obtained through autonomous positioning automatically.

Manual Input: Manually input the coordinate of a control point.

From CORS: After the receiver logging in CORS, the software can record the coordinate of current position based on fix solution.

For Sample for Average:

Users can determine the positioning limit and sampling amount. The positioning limit falls into two types:

Single Solution Coordinates: Collect the coordinates of receiver obtained through autonomous positioning.

Fixed Solution Coordinates: Only collect coordinates of receiver with a fixed solution.

After the configuration of positioning limit and sampling amount, click **Start** to carry out sampling and averaging → the progress bar will show the progress → the result will be served as the coordinate of current position.

If users need to save the changes, please tap **Save** button.

4.3.4 Receiver Reset Submenu

Use this screen to reset the receiver completely or partially:

Receiver Reset x

Reboot Receiver:	☒ Confirm
Return to Factory Defaults:	☒ Confirm
Clear Satellite Data:	☒ Confirm
Turn Off Receiver:	☒ Confirm

4.3.5 Languages Submenu

Use this screen to select the web interface language:

Language x



English
中文
Nederland
English
Русский
Türkçe
Español

☒ Confirm

4.3.6 User Management Submenu

User Management ×

User Management

Add
Save
Delete
Modify Anti-theft password

ID	User Name	Password
1	admin	*****
2	admin1	*****
3	admin2	*****

4.4 Data Recording Menu

Use the Data Logging menu to set up the receiver to log static GNSS data and to view the logging settings. You can configure settings such as observable rate, recording rate, continuous logging limit, and whether to auto delete old files when memory is low. This menu also provides the controls for the FTP push feature:

Data Recording

Log Settings
FTP Push Settings
FTP Push Log

4.4.1 Log Settings Submenu

Here shows the data logging status, including internal and external storage usage and data logging status of each session. Also, users can configure the data logging settings for each session, including recording name, store location, storage limit, store formats, start time, etc.

Log Settings ×

Store Info

	Position	Total Storage	Storage Available
1	Internal Storage	6425MB	6425MB
2	External Storage	0MB	0MB

Attention: Total assigned storage size should be less than 6GB. It will stop recording when the storage is full.

Record Info

Clear All

Recording N	File Name	Activated	Log Status	Setting Parameter	Switch	Clear Data
1	record1	No	Not Recordin	Modify Detail	ON OFF	Clear

To edit the settings of each session, click the Modify button to the right of the required session, and then the Recording Edit screen appears:

Recording Edit ×

Auto Record: ☐ Yes ☒ No

Sample Interval: 1Hz

Elevation Mask: 10 (°)

Duration Time: 1440 (Minute)

Site Name:

Antenna Height: 0.0000

Measure Way: Antenna Phase Ce

RINEX Version: 3.0x

Compress Rinex Data: ☐ Yes ☒ No

Advanced

Save

Back

Click advanced to see more settings.

Recording Edit

Auto Record: ☐ Yes ☒ No

Sample Interval: 1Hz

Elevation Mask: 10 (*)

Duration Time: 1440 (Minute)

Site Name:

Antenna Height: 0.0000

Measure Way: Antenna Phase Ce

RINEX Version: OFF

Advanced

Start Date: ☐ Yes ☒ No

Apply Time: ☐ Yes ☒ No

Integral Point Store: ☐ Yes ☒ No

Circulating Memory: ☒ Yes ☐ No

the data overwritten first file after storage space is full

Single Observations: ☒ Yes ☐ No

Turn on to record a single observation. Turn off to record repeated observations.

Store Location: Internal Storage

Assigned Storage: 6000 (MB)

Observer: GEOMATE

Observe Agency: GEOMATE

FTP Push: ☒ Close ☐ 1:ftp server 1 ☐ 2:ftp server 2 ☐ 3:ftp server 3

Save Back

In this screen, you can configure all the data logging parameters, and determine whether the recording files will be affected by the FTP Push. The parameters are mainly as follows:

Auto Record: on or off.

Sample Interval: Select the observable rate from the dropdown list.

Elevation Mask: Enter the elevation mask.

Duration Time: Set the duration of data logging.

Site Name: Enter the name of the site.

Antenna Height: the measured height value.

Measure way: Antenna Phase Center, Vertical Height, Slant Height

Storage Format: Select the format of the data store.

RINEX Version: OFF, 3.02, 2.11

Start Date: Select **Yes** or **No** option to determine whether to auto record start date.

Apply Time: Select **Yes** or **No** option to determine whether to auto record apply time.

Integral Point Store: Select **Yes** or **No** option to determine whether to allow receiver to save data every hour.

Circulating Memory: Select **Yes** or **No** option to determine whether to auto delete old files if the storage space is full.

Repeat Observations: Select **Yes** or **No** option to determine whether to turn on to record a single observation.

Store Location: Internal Storage, External Storage.

Assigned Storage: The assigned memory size of current thread (for example, Record 1) is 10000MB.

Observer: Enter the name of observer.

Observer Agency: Enter the name of observer agency.

FTP Push: Decide whether to push the stored files to the FTP server of your choice.

Tap  **Save** button to save the settings and back to the Log Settings screen. Also, users can click  **Back** to abandon the changed settings and back to Log Settings screen.

Note – To modify data logging parameters, make sure the data logging session is switched off.

To switch on or off ANY data logging session, tap the ON or OFF button on the right of the required session.

To delete the recorded files of ANY data logging session, tap the Clear button on the right of the required session.

To delete the recorded files of ALL data logging sessions, tap the Clear ALL Accounts button.

4.4.2 FTP Push Settings Submenu

Use this screen to configure the receiver to push stored files to the FTP server of your choice. Only files that are configured to use FTP push are transmitted.

Record Info				
Server ID	Server IP	Remote Directory	Server Description	Modify
1	192.168.3.72	/repo/first	ftp server 1	
2	192.168.3.72	/repo/second	ftp server 2	
3	192.168.3.72	/repo/third	ftp server 3	

Tap Modify button on the right of the required FTP server and the FTP Push Settings screen appears:

FTP Push Settings

Server IP: 192.168.3.72

Port: 21

Remote Directory: /repo/first

Local directory: /mnt/repo_

Server Description: ftp server 1

User Name: ftpuser1

Password:

Save **Back**

4.4.3 FTP Push Log Submenu

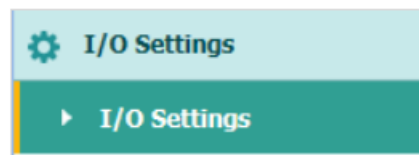
Shows the related information about the recorded files that will be pushed. And users can tap **Clear Ftp Push Log** button in the upper right corner to clear the log of FTP Push operations.

Record Info					
					Clear FTP Push Log
Server ID	Push File	File Size	Push Time	Push Successful Or Not	
20					

Page 1 of 1

Displaying 0 to 0 of 0 items

4.5 IO Settings Menu



Use the IO Settings menu to set up all receiver outputs and inputs. The receiver can output CMR, RTCM, Raw data, Ephemeris data, GPGLGA, GPGLSV, on TCP/IP, UDP, serial port, or Bluetooth ports.

The following figure shows an example of the screen that appears when you select this submenu.

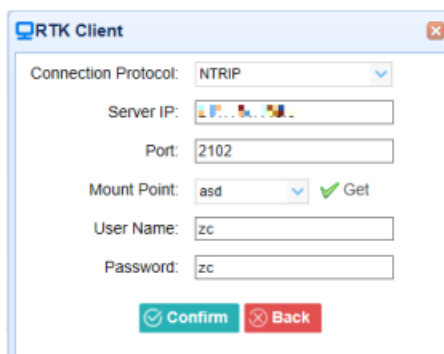
I/O Settings *					
	Type	Description	Output	Connection Status	Modify
1	RTK Client	211.144.118.5:2102	---	Unconnected	Connect Disconnecting De
2	TCP/UDP_Client1/NTRIP Serv	192.168.3.18:9900	---	Unconnected	Connect Disconnecting De
3	TCP/UDP_Client2/NTRIP Serv	192.168.3.18:9901	---	Unconnected	Connect Disconnecting De
4	TCP/UDP_Client3/NTRIP Serv	192.168.3.18:9902	---	Unconnected	Connect Disconnecting De
5	TCP/UDP_Client4/NTRIP Serv	192.168.3.18:9903	---	Unconnected	Connect Disconnecting De
6	TCP/UDP_Client5/NTRIP Serv	192.168.3.18:9904	---	Unconnected	Connect Disconnecting De
7	TCP/UDP_Client8/NTRIP Serv	192.168.3.18:9905	---	Unconnected	Connect Disconnecting De
8	TCP Server/NTRIP Caster1	9901	---	Closed	Connect Disconnecting De
9	TCP Server/NTRIP Caster2	9902	---	Closed	Connect Disconnecting De
10	TCP Server/NTRIP Caster3	9903	---	Closed	Connect Disconnecting De
11	TCP Server/NTRIP Caster4	9904	---	Closed	Connect Disconnecting De
12	Serial Port	115200	---	---	Settings
13	Bluetooth	GNSS-3411955	GPGLGA 5s,	---	Settings
14	Radio	462.5500MHz	---	---	Settings

In this submenu, users can configure 6 types of input and output settings.

1.RTK Client

After configuring the settings of RTK client, users can log on CORS or APIS. Tap the Connect button to the right → the IO Settings screen will appear → choose one of the connection protocols among the NTRIP, APIS_BASE and APIS_ROVER → configure the related parameters→ click **Confirm** to log on CORS or APIS.

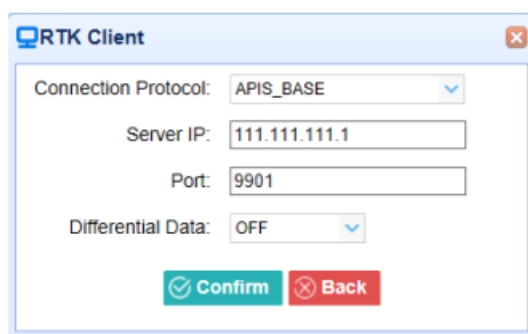
➤Connection Protocol: NTRIP



The screenshot shows the 'RTK Client' dialog box with the 'Connection Protocol' set to 'NTRIP'. The fields are as follows:

- Connection Protocol: NTRIP (dropdown menu)
- Server IP: [IP address icon]
- Port: 2102
- Mount Point: asd (dropdown menu) with a green checkmark and 'Get' button
- User Name: zc
- Password: zc
- Buttons: Confirm (green) and Back (red)

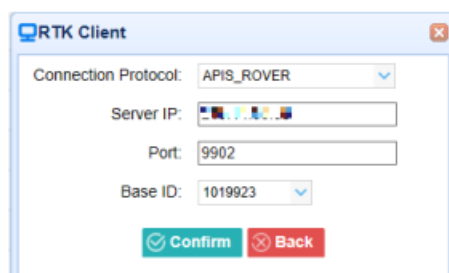
➤Connection Protocol: APIS_BASE



The screenshot shows the 'RTK Client' dialog box with the 'Connection Protocol' set to 'APIS_BASE'. The fields are as follows:

- Connection Protocol: APIS_BASE (dropdown menu)
- Server IP: 111.111.111.1
- Port: 9901
- Differential Data: OFF (dropdown menu)
- Buttons: Confirm (green) and Back (red)

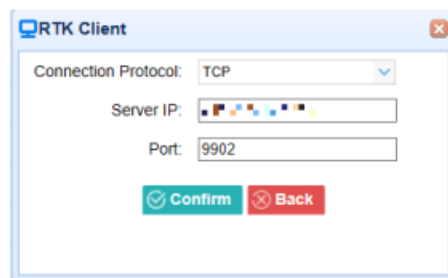
➤Connection Protocol: APIS_ROVER



The screenshot shows the 'RTK Client' dialog box with the 'Connection Protocol' set to 'APIS_ROVER'. The fields are as follows:

- Connection Protocol: APIS_ROVER (dropdown menu)
- Server IP: [IP address icon]
- Port: 9902
- Base ID: 1019923 (dropdown menu)
- Buttons: Confirm (green) and Back (red)

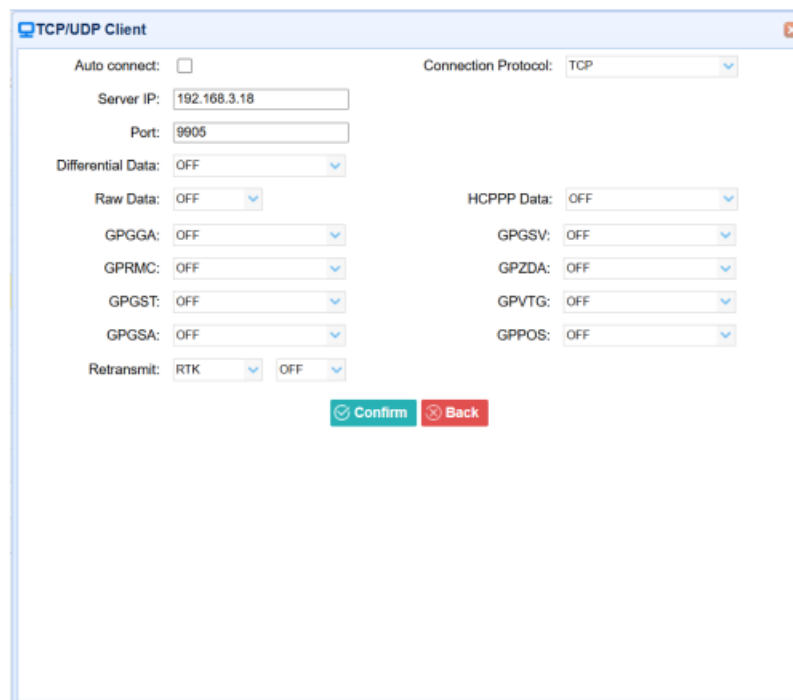
➤ Connection Protocol: TCP



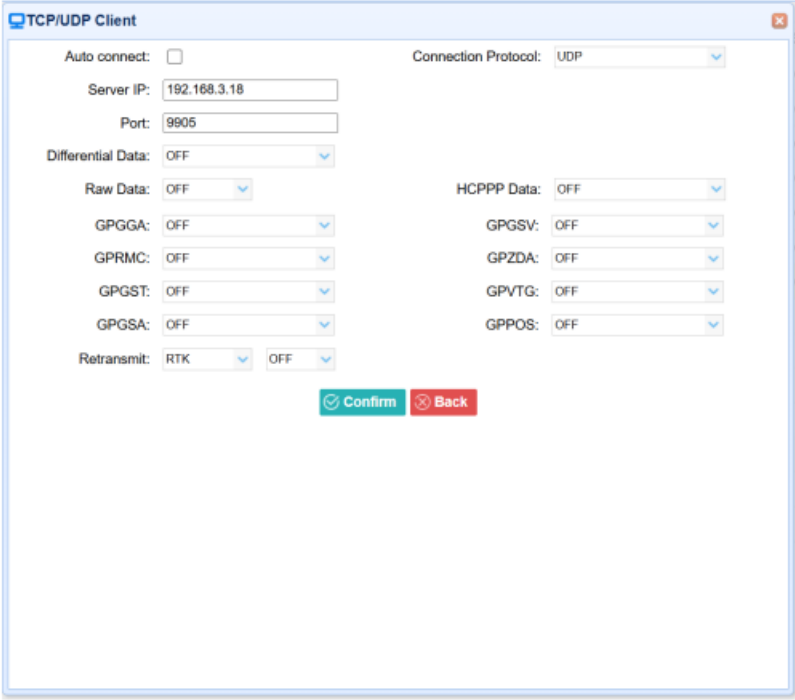
2. TCP/UDP Client/NTRIP Server

Tap the **Connect** button on the right of required TCP/UDP Client → the IO Settings screen will appear → select the connection protocol from TCP, UDP, NTRIP1.0 and NTRIP2.0 → enter the IP and Port of the target server → configure messages that you want to output to the target server → click **Confirm** to save and complete the connection.

➤ Connection Protocol: TCP



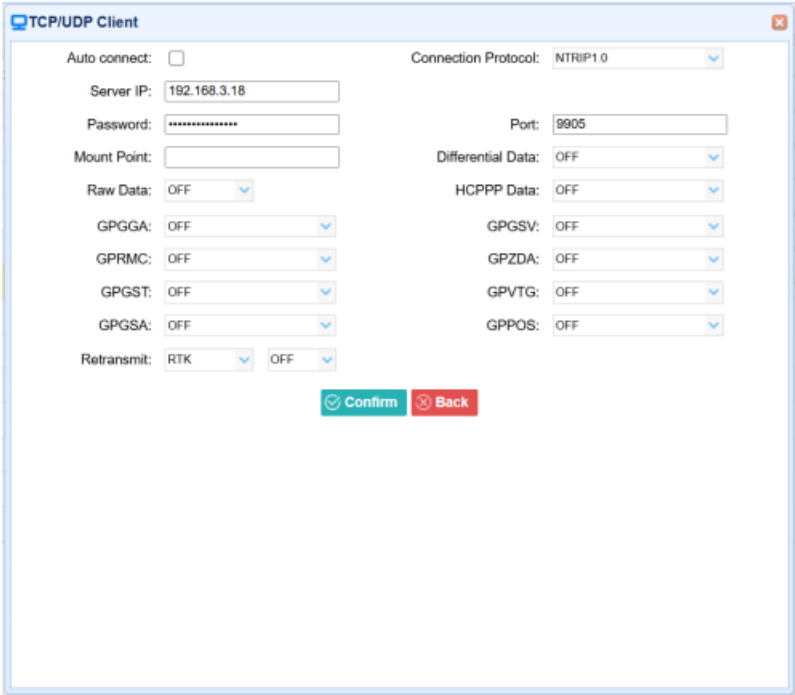
➤ Connection Protocol: UDP



The screenshot shows the 'TCP/UDP Client' configuration window. The 'Connection Protocol' is set to 'UDP'. The 'Auto connect' checkbox is unchecked. The 'Server IP' is '192.168.3.18' and the 'Port' is '9905'. The 'Differential Data' is set to 'OFF'. The 'Raw Data' is set to 'OFF'. The 'HCPPP Data' is set to 'OFF'. The 'GPGLA', 'GPRMC', 'GPGST', 'GPGSA', and 'Retransmit' (RTK) are all set to 'OFF'. The 'GPGLA', 'GPRMC', 'GPGST', 'GPGSA', 'GPGLS', 'GPZDA', 'GPVTG', and 'GPPOS' are all set to 'OFF'. The 'Confirm' and 'Back' buttons are at the bottom.

Field	Value
Auto connect	☐
Connection Protocol	UDP
Server IP	192.168.3.18
Port	9905
Differential Data	OFF
Raw Data	OFF
HCPPP Data	OFF
GPGLA	OFF
GPRMC	OFF
GPGST	OFF
GPGSA	OFF
Retransmit	RTK
GPGLS	OFF
GPZDA	OFF
GPVTG	OFF
GPPOS	OFF

➤ Connection Protocol: NTRIP1.0



The screenshot shows the 'TCP/UDP Client' configuration window. The 'Connection Protocol' is set to 'NTRIP1.0'. The 'Auto connect' checkbox is unchecked. The 'Server IP' is '192.168.3.18' and the 'Port' is '9905'. The 'Password' is masked with asterisks. The 'Mount Point' is empty. The 'Differential Data' is set to 'OFF'. The 'Raw Data' is set to 'OFF'. The 'HCPPP Data' is set to 'OFF'. The 'GPGLA', 'GPRMC', 'GPGST', 'GPGSA', and 'Retransmit' (RTK) are all set to 'OFF'. The 'GPGLS', 'GPZDA', 'GPVTG', and 'GPPOS' are all set to 'OFF'. The 'Confirm' and 'Back' buttons are at the bottom.

Field	Value
Auto connect	☐
Connection Protocol	NTRIP1.0
Server IP	192.168.3.18
Password	*****
Port	9905
Mount Point	
Differential Data	OFF
Raw Data	OFF
HCPPP Data	OFF
GPGLA	OFF
GPRMC	OFF
GPGST	OFF
GPGSA	OFF
Retransmit	RTK
GPGLS	OFF
GPZDA	OFF
GPVTG	OFF
GPPOS	OFF

➤ Connection Protocol: NTRIP2.0

The screenshot shows the 'TCP/UDP Client' configuration window. The 'Connection Protocol' is set to 'NTRIP2.0'. The 'Server IP' is '192.168.3.18', 'User Name' is 'link_c', and 'Port' is '9905'. The 'Auto connect' checkbox is unchecked. The 'Mount Point' field is empty. The 'Raw Data' dropdown is set to 'OFF'. The 'Differential Data' dropdown is set to 'OFF'. The 'HCPPP Data' dropdown is set to 'OFF'. The 'Retransmit' dropdown is set to 'RTK'. The 'Confirm' button is highlighted in green, and the 'Back' button is highlighted in red.

Parameter	Value
Auto connect	☐
Connection Protocol	NTRIP2.0
Server IP	192.168.3.18
User Name	link_c
Password	*****
Port	9905
Mount Point	
Raw Data	OFF
Differential Data	OFF
HCPPP Data	OFF
Retransmit	RTK
GPGLA	OFF
GPRMC	OFF
GPST	OFF
GPGLA	OFF
GPGLS	OFF
GPGLT	OFF
GPGLP	OFF
GPGLD	OFF
GPGLV	OFF
GPGLZ	OFF
GPGLT	OFF
GPGLP	OFF
GPGLD	OFF
GPGLV	OFF
GPGLZ	OFF

3. TCP Server/NTRIP Caster

Tap the Connect button to the right of required TCP Server/NTRIP Caster → the IO Settings screen will appear → select one of the connection protocols between NTRIP and TCP → configure the other related parameters → click **Confirm** to save the settings and open the server.

➤ Connection Protocol: TCP

TCP Server/NTRIP Caster

Auto connect: ☐ Connection Protocol: TCP

Port: 9901

Differential Data: OFF
 HCPPP Data: OFF
 GPGGA: OFF
 GPRMC: OFF
 GPGST: OFF
 GPGSA: OFF
 Retransmit: RTK OFF

Raw Data: OFF
 GPGSV: OFF
 GPZDA: OFF
 GPVTG: OFF
 GPPOS: OFF

Confirm **Back**

➤ Connection Protocol: NTRIP

TCP Server/NTRIP Caster

Auto connect: ☐ Connection Protocol: NTRIP

User Name: Password:

Port: 9901 Mount Point:

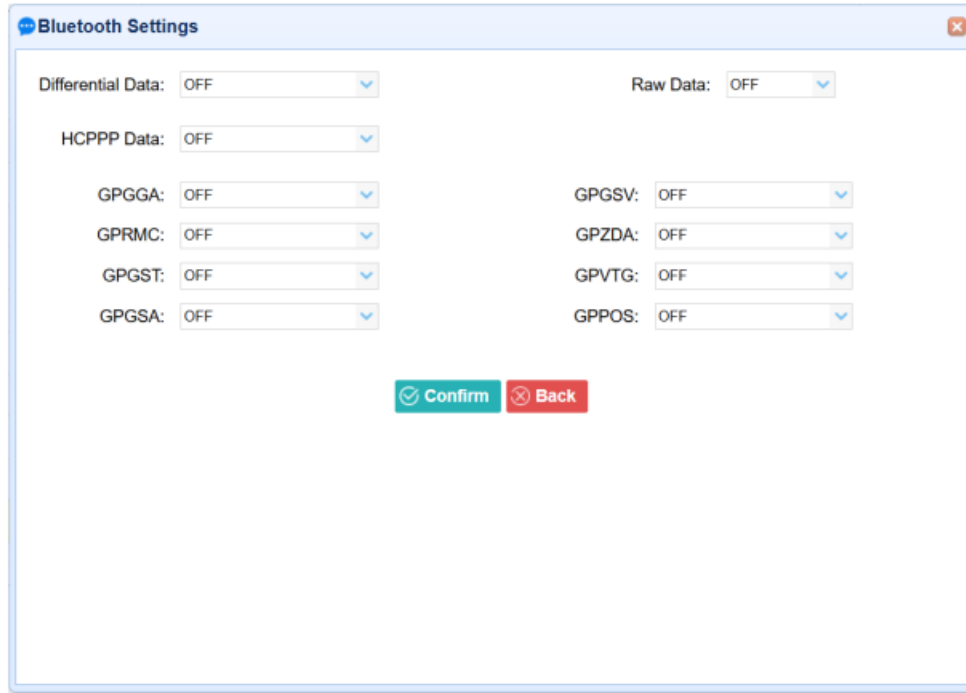
Differential Data: OFF
 HCPPP Data: OFF
 GPGGA: OFF
 GPRMC: OFF
 GPGST: OFF
 GPGSA: OFF
 Retransmit: RTK OFF

Raw Data: OFF
 GPGSV: OFF
 GPZDA: OFF
 GPVTG: OFF
 GPPOS: OFF

Confirm **Back**

4. Bluetooth

Tap the Settings button to the right of Bluetooth → the Bluetooth Set screen will appear → configure the messages that you want to transmit through Bluetooth → click  to save the settings and start to transmit.



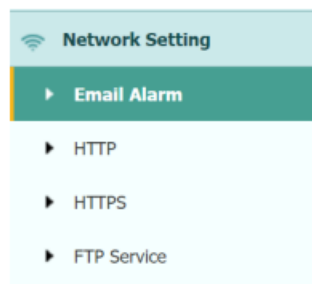
Bluetooth Settings

Differential Data:	OFF	Raw Data:	OFF
HCPPP Data:	OFF		
GPGBA:	OFF	GPGBV:	OFF
GPRMC:	OFF	GPZDA:	OFF
GPGST:	OFF	GPVTG:	OFF
GPGBA:	OFF	GPPOS:	OFF

4.6 Network Setting Menu

Use this menu to set email alert for specific situation, configure HTTP or HTTPS port, and the username and password of internal FTP site:



4.6.1 HTTP Submenu

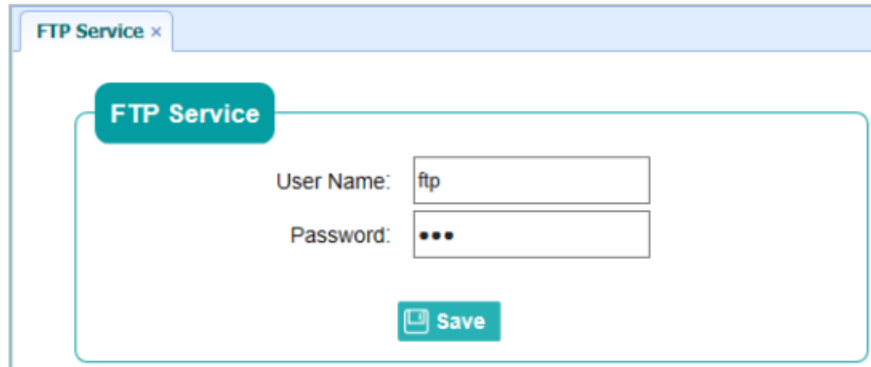
Use this submenu to configure HTTP port.

4.6.2 HTTPS Submenu

Use this submenu to configure HTTPS port.

4.6.3 FTP Service Submenu

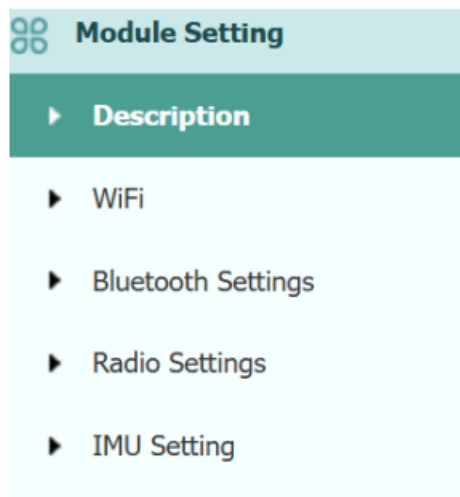
Use this submenu to configure the user name and password of internal FTP site.



The screenshot shows a web interface for configuring the FTP Service. At the top, there is a tab labeled "FTP Service x". Below the tab, there is a teal header with the text "FTP Service". Underneath the header, there are two input fields: "User Name:" with the value "ftp" and "Password:" with three dots indicating a masked password. At the bottom right of the form, there is a teal button with a floppy disk icon and the text "Save".

4.7 Module Setting Menu

Use this menu to check module information, configure WiFi, Bluetooth, radio related settings, and turn on/off static voice of buzzer:



4.7.1 Description Submenu

Use this submenu to check the information of WiFi module and radio module.

Description ×

Wi-Fi Information

Power Status: ON
Wifi Mode: Access Point
MAC: da:ad:be:46:91:40
Access Point Details
SSID: GNSS-3469140

Radio Information

Radio Type:
Radio Power: 1W
OTA Baud Rate: 9600
Radio Frequency: 456.0500MHz
Radio Protocol: Transparent
Radio Frequency Channel:
Frequency Range: undefinedMHz--
undefinedMHz

4.7.2 WiFi Submenu

Use this submenu to turn on/off WiFi function.

WiFi ×

WiFi

Power Status: ON OFF
Auto Start: ☒ Yes ☐ No
SSID:
Start

4.7.3 Bluetooth Settings Submenu

Use this submenu to turn on/off Bluetooth function and modify PIN number.

Bluetooth Settings ×

Bluetooth Settings

Local Name: [Redacted]

MAC Address: 81:D2:10:04:FF:D2

PIN:

Save

4.7.4 Radio Settings Submenu

Use this submenu to turn on/off radio function and configure radio parameters.

Now this receiver GNSS SG6L supports LongRun\Transparent\ TT450\Satel radio protocols.

Radio Settings ×

Radio Settings

Radio Status: ON

Auto Start: ☒ Yes ☐ No

Radio Protocol:

Radio Frequency: (410MHz---470MHz)

FEC: ☐

Save

4.7.5 IMU Settings Submenu

Use this submenu to turn on/off IMU function.

IMU Setting x

IMU Setting

IMU Status: ☐ ON ☒ OFF

Antenna Height:

Save

IMU Init Status:

Lat:

Lon:

Alt:

Vertical dip:

direction of dip:

4.8 Firmware Menu

Use this menu to check the current firmware information, download the system log, update the receiver firmware, download, or update the configuration file and register the receiver, and more:

Firmware

▶ Firmware Info.

- ▶ Hardware Version
- ▶ Config File
- ▶ System Log
- ▶ User Log
- ▶ Firmware Update
- ▶ GNSS Board Upgrade
- ▶ GNSS Registration

4.8.1 Firmware Info Submenu

Use this submenu to check the current firmware information. The following

figure shows an example of the firmware information.

Firmware Info. x

Firmware Version: 1.0.6

Firmware Release Time: 20211115_364c74b

4.8.2 Hardware Version Submenu

Use this submenu to check the hardware information, including main board version and core board version:

Hardware Version x

Main Board: 1.0.1

Core Board: 1.0.1

PN: A19318430901060002

Board Firmware Version Number: 21893

4.8.3 Config File Submenu

Use this submenu to update Configuration File.

Config File x

Download Configuration File : [Download](#)

Update Configuration File: [Browse](#)

[Confirm](#)

4.8.4 System Log Download Submenu

Use this submenu to download the system log of the receiver.

System Log x

System Log Type: Firmware Log

[Download](#)

4.8.5 User Log Submenu

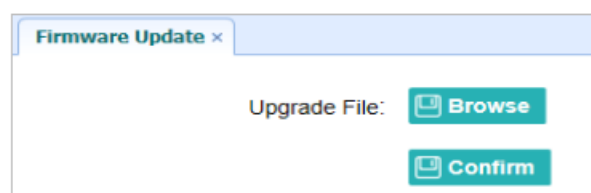
Use this submenu to download the user log. Tap Download to download current user log; Tick items that you want to see on the user log and tap confirm button to confirm selected user log.

The screenshot shows a web interface for the 'User Log' submenu. At the top, there is a tab labeled 'User Log x'. Below the tab, the text 'Download User Log:' is followed by a green 'Download' button with a download icon. Underneath, there is a section titled 'User Log settings' in a rounded rectangle. This section contains a list of 12 items, each with a checked checkbox and a label. The items are arranged in two columns. At the bottom of the 'User Log settings' section is a green 'Confirm' button with a checkmark icon.

User Log settings	
☒ System Starting Time	☒ Wi-Fi Status
☒ External Power Removed	☒ Bluetooth status
☒ Satellites Tracking Status Changed	☒ CORS and APIS states
☒ TCP Client Connection	☒ 3g Connection status
☒ TCP Client Disconnect	
☒ Observation Recording Start and End	
☒ FTP file pushed	
☒ Email alert time	

4.8.6 Firmware Update Submenu

Use this submenu to load new firmware to the receiver across the network. Tap the Browse button to locate the upgrade file → tap Confirm button to confirm the selected upgrading file and start upgrading.



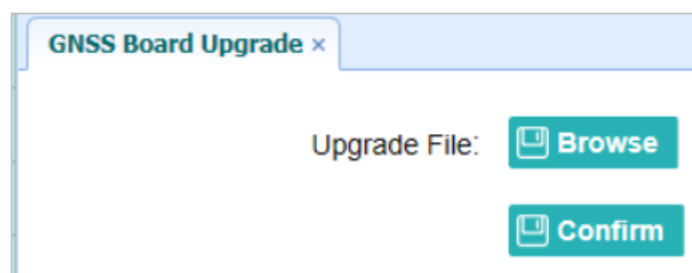
Notes

It may take about 3 or 4 minutes to complete the firmware upgrading. Do not touch the power button or unplug the power until the upgrading process finishes, or damage will be caused to the receiver.

The receiver will restart after the firmware upgrading is done, so users need to reconnect the receiver with your computer via Wi-Fi, and then log-in the receiver through a web browser to continue the configuration.

4.8.7 GNSS Board Upgrade Submenu

Use this submenu to upgrade GNSS Board. Use this submenu to load new board to the receiver across the network. Tap the Browse button to locate the upgrade file → tap Confirm button to confirm the selected upgrading file and start upgrading.



4.8.8 GNSS Registration Submenu

Use this submenu to register the receiver. Paste or enter the registration code to the Registration Code field → tap Registration button to complete the registration.

GNSS Registration ×

Serial Number:	4193474
Registration Limit:	2025-5-10
Registration Code:	PgU2RfuQcrV

 Registration



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