



UC11-N1

Quick Start Guide



Welcome

Thank you for choosing Ursalink UC11-N1.

This guide describes how to install the UC11-N1 and how to connect to Ursalink Cloud. Once you complete the installation, refer to the Ursalink UC11-N1 User Manual for instructions on how to perform configurations on the device.

Related Documents

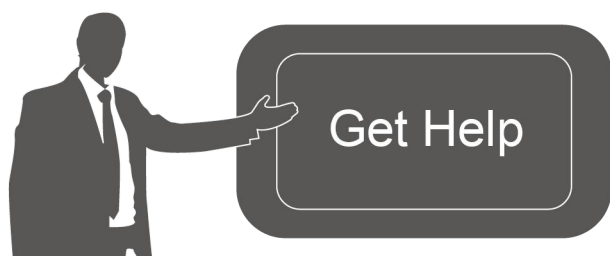
This Start Guide only explains the installation of Ursalink UC11-N1. For more functionality and advanced settings, please refer to the relevant documents as below.

Document	Description
Ursalink UC11-N1 Datasheet	Datasheet for the Ursalink UC11-N1.
Ursalink UC11-N1 User Guide	Users could refer to the guide for instruction on how to configure all the settings.

The related documents are available on Ursalink website: <http://www.ursalink.com>.

Declaration of Conformity

Ursalink UC11-N1 is in conformity with the essential requirements and other relevant provisions of the CE, FCC, and RoHS.

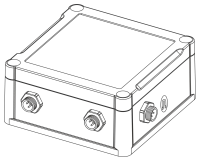


For assistance, please contact
Ursalink technical support:
Email: support@ursalink.com
Tel: 86-592-5023060
Fax: 86-592-5023065

1. Packing List

Before you begin to install the UC11-N1, please check the package contents to verify that you have received the items below.

1.1 Package Contents



1 × UC11-N1 Device



2 × Data Cable



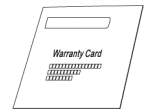
1 × USB Cable



1 × Magnet

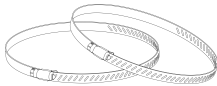


Setscrews



1 × Warranty Card

Optional Accessories



2 × Pole Mounting Kit

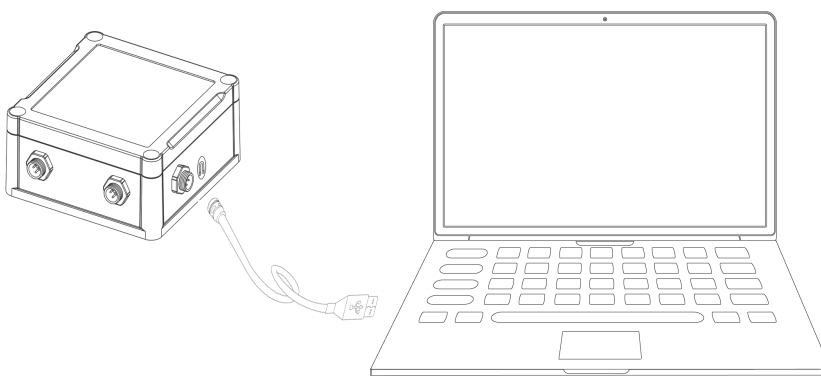


If any of the above items is missing or damaged, please contact your Ursalink sales Representative.

2. Hardware Installation

2.1 USB Configuration

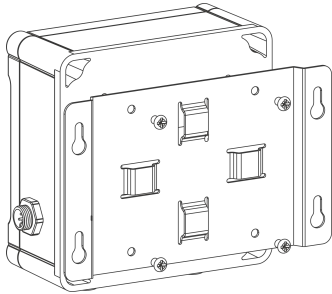
Connect UC11-N1 with laptop via USB cable.



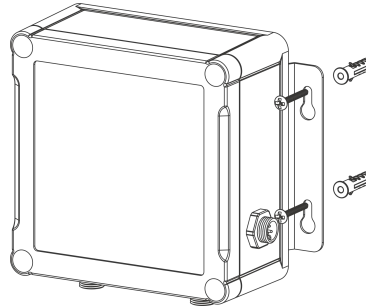
2.2 Mount the UC11-N1

Wall Mounting

A. Mount the enclosure to the mounting bracket with the bracket mounting screws.

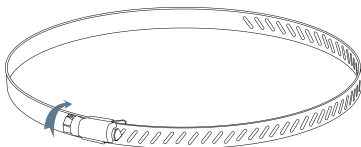


B. Mount the mounting bracket horizontally to the wall by fixing the wall mounting screws into the wall plugs.

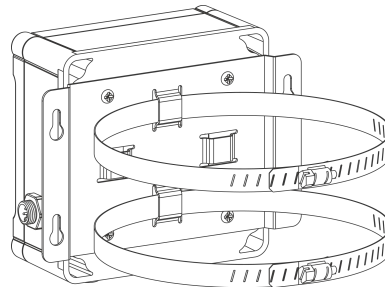


Pole Mounting

A. Mount the enclosure to the mounting bracket with the bracket mounting screws.

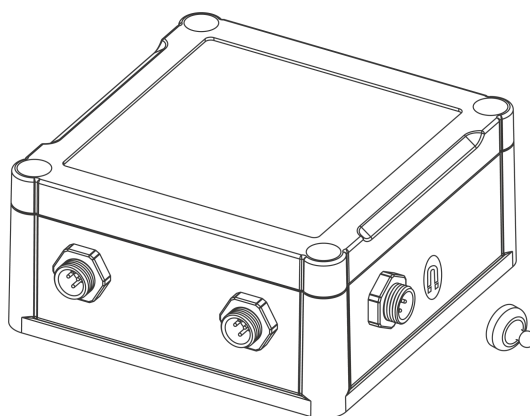


B. Straighten out the hose clamp and slide it through the rectangular holes in the mounting bracket, wrap the hose clamp around the pole.



2.3 Turn ON/OFF UC11-N1

Place the magnet on the sign “U” to turn on/off UC11-N1. Beep 2 seconds ON, beep last 6 seconds OFF.



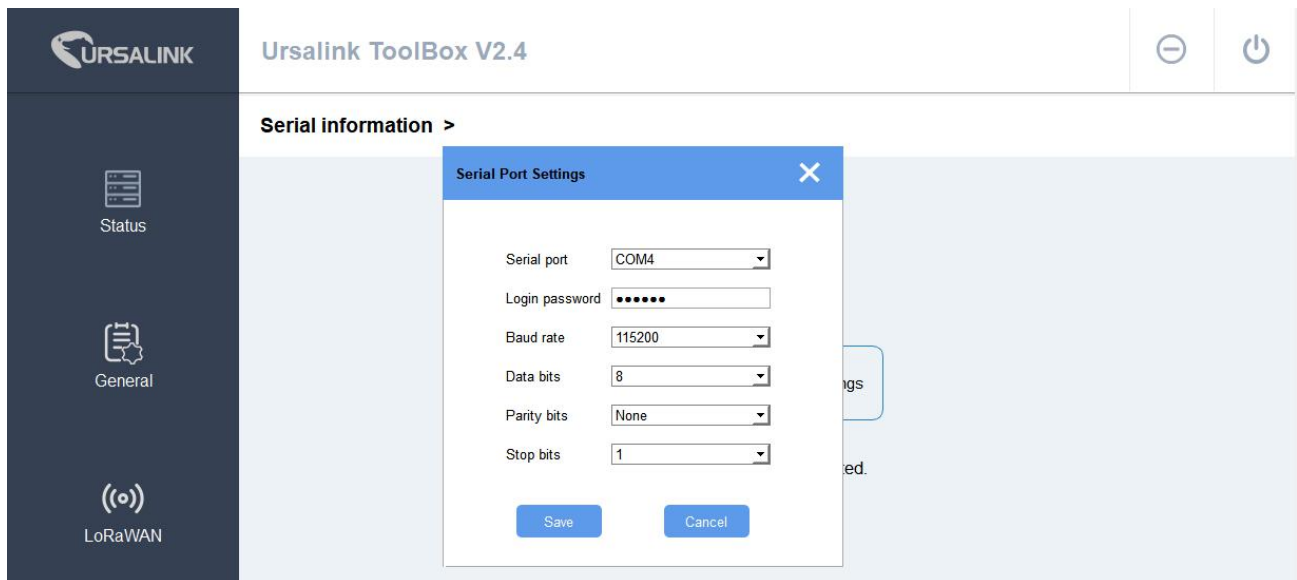
Getting Started

4. Connect to Ursalink Cloud

4.1 Configure UC11-T1 via Toolbox

Please connect PC USB port to micro USB port of UC3x series remote cellular I/O directly, PC Setup the Toolbox.

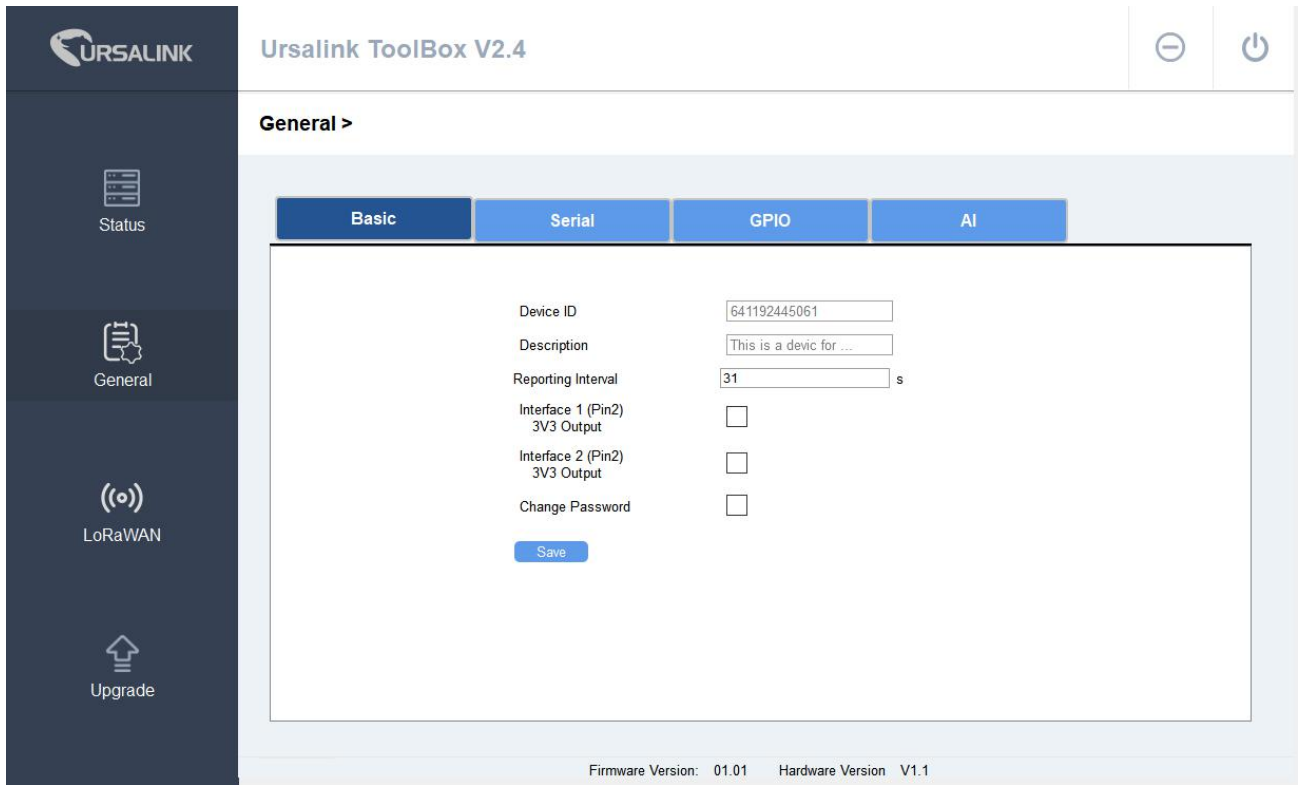
- ① Select Serial port and fill in the login password, default "123456", then click "Save"



- ② Click "Status" to check property of UC11-N1



- ③ Click "General/Basic" configure the "Reporting Interval"



Ursalink ToolBox V2.4

General >

Basic | **Serial** | **GPIO** | **AI**

Device ID: 641192445061

Description: This is a devic for ...

Reporting Interval: 31 s

Interface 1 (Pin2) 3V3 Output: ☐

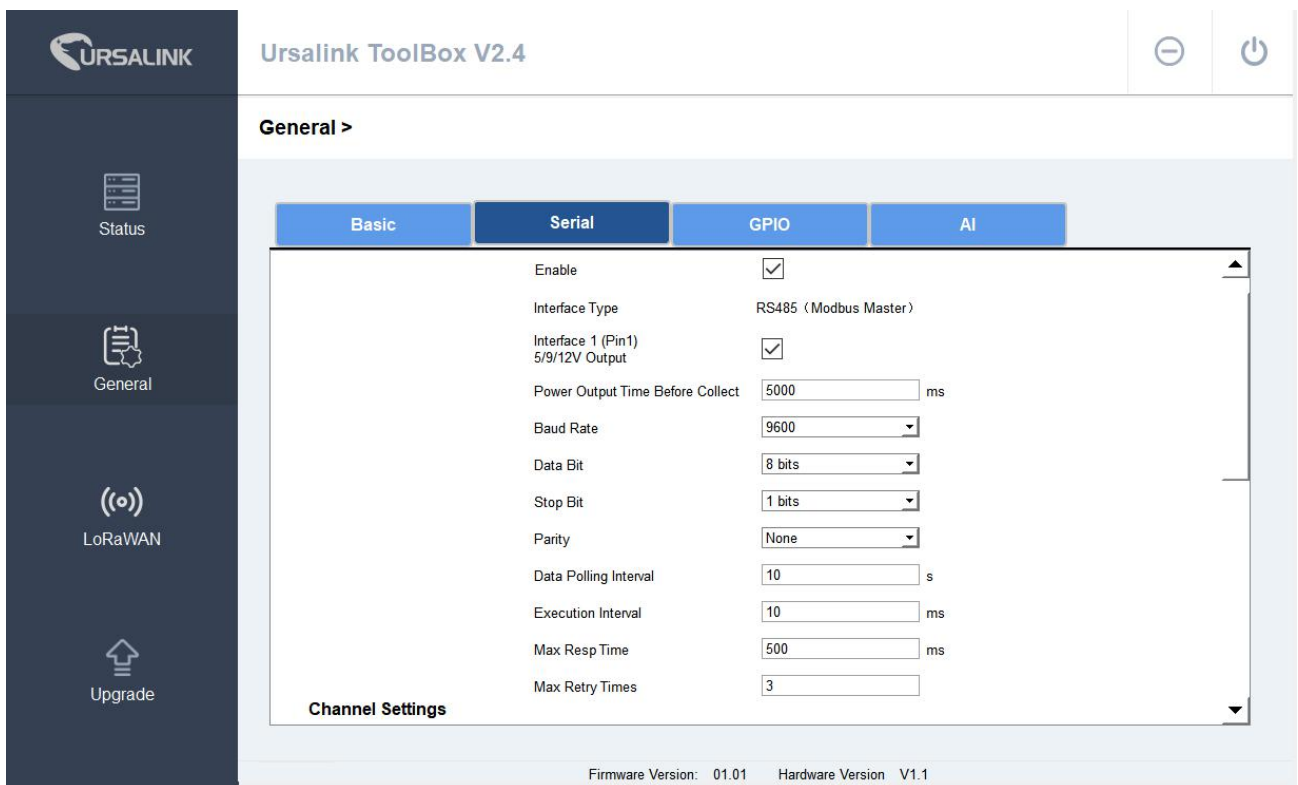
Interface 2 (Pin2) 3V3 Output: ☐

Change Password: ☐

Save

Firmware Version: 01.01 Hardware Version V1.1

④ Click “General/Serial” to configure RS485 property and channel



Ursalink ToolBox V2.4

General >

Basic | **Serial** | **GPIO** | **AI**

Enable: ☒

Interface Type: RS485 (Modbus Master)

Interface 1 (Pin1) 5/9/12V Output: ☒

Power Output Time Before Collect: 5000 ms

Baud Rate: 9600

Data Bit: 8 bits

Stop Bit: 1 bits

Parity: None

Data Polling Interval: 10 s

Execution Interval: 10 ms

Max Resp Time: 500 ms

Max Retry Times: 3

Channel Settings

Firmware Version: 01.01 Hardware Version V1.1



Ursalink ToolBox V2.4

General >

Basic Serial GPIO AI

Parity: None

Data Polling Interval: 10 s

Execution Interval: 10 ms

Max Resp Time: 500 ms

Max Retry Times: 3

Channel Settings

Channel ID	Name	Slave ID	Address	Quantity	Type	Sign	Value
1	Light	1	6	1	Holding Register(INT16)		0
2	Wind	2	0	1	Holding Register(INT16)		0

Save Up to 8 channels

In this quick guide, UC11-T1 connect with two equipment (Light sensor and wind speed sensor), both of the two sensors use Modbus RS485.

Sensor property

Sensor	Serial Port	Slave ID	Register	Type
Light Sensor	9600 8N1	1	6	Holding Register(INT16)
Wind speed sensor	9600 8N1	2	0	Holding Register(INT16)

Wiring

UC11-N1	Orange(12V/9V/5V)	Brown (V+)	Sensors
	Black (GND)	Brown (V-)	
	Green (A)	Green (A)	
	Yellow (B)	Blue(B)	

Note: The two sensor is powered up by UC11-N1, need configure “power output before collect”, default 5 seconds.

⑤Click “General/GPIO” to configure digital input and output.



Ursalink ToolBox V2.4




General >

Basic
Serial
GPIO
AI

Interface Name
GPIO 1

Enable
☒

Interface Type
Digital Input1

Pull Down

Status
Low
Fetch

Interface Name
GPIO 2

Enable
☒

Interface Type
Digital Input2

Pull Down

Status
Low
Fetch

Save

⑥Click “General/AI” to configure analog input.



Ursalink ToolBox V2.4




General >

Basic
Serial
GPIO
AI

Interface 2 (Pin1)
5/9/12V Output
☐

Data Polling Interval
10 s

Interface Name
Analog Input 1

Enable
☒

Status
0.00mA
Fetch

Interface Name
Analog Input 2

Enable
☒

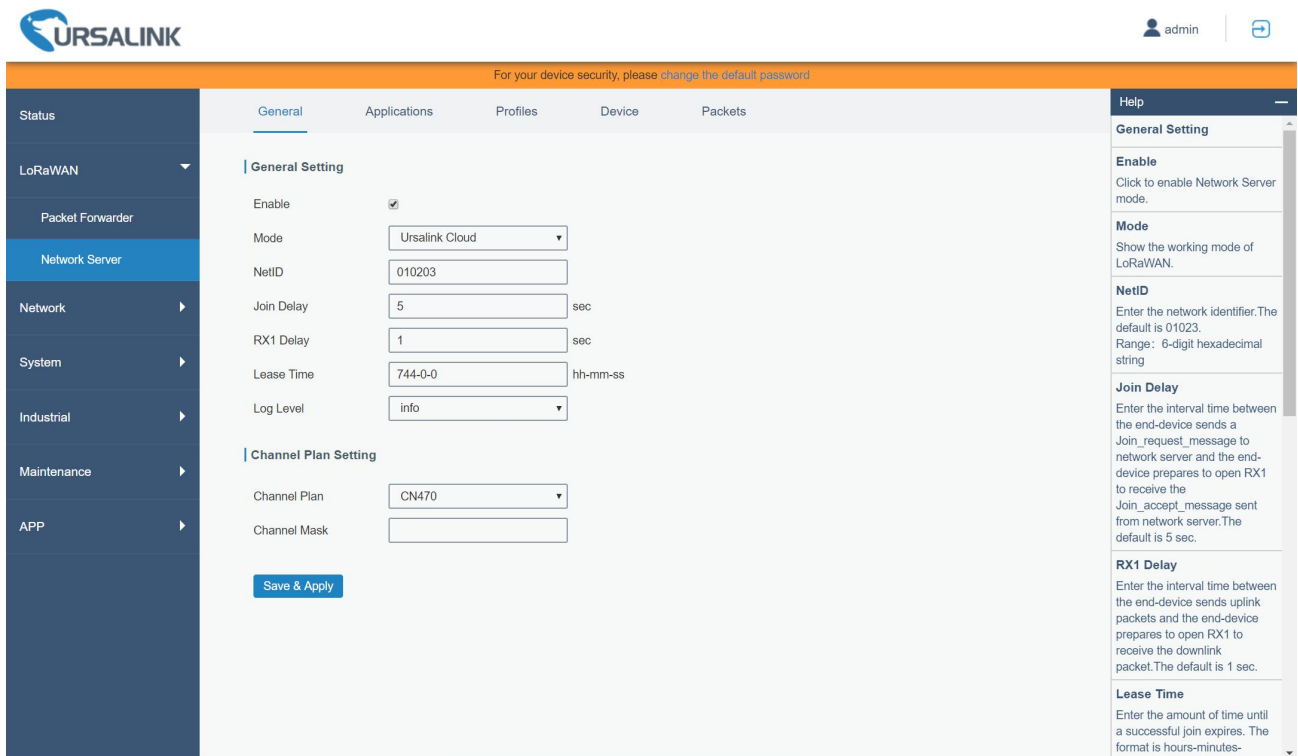
Status
0.00mA
Fetch

Save

Firmware Version: 01.01 Hardware Version V1.1

4.2 Ursalink Gateway Configuration

Enable network server and mode configure as “Ursalink Cloud”.



The screenshot shows the Ursalink Gateway configuration interface. The left sidebar contains a navigation menu with options: Status, LoRaWAN, Packet Forwarder, Network Server (selected), Network, System, Industrial, Maintenance, and APP. The main content area is titled 'General Setting' and includes the following fields:

- Enable:** A checkbox that is checked.
- Mode:** A dropdown menu set to 'Ursalink Cloud'.
- NetID:** A text input field containing '010203'.
- Join Delay:** A text input field containing '5' with a unit of 'sec'.
- RX1 Delay:** A text input field containing '1' with a unit of 'sec'.
- Lease Time:** A text input field containing '744-0-0' with a unit of 'hh-mm-ss'.
- Log Level:** A dropdown menu set to 'info'.

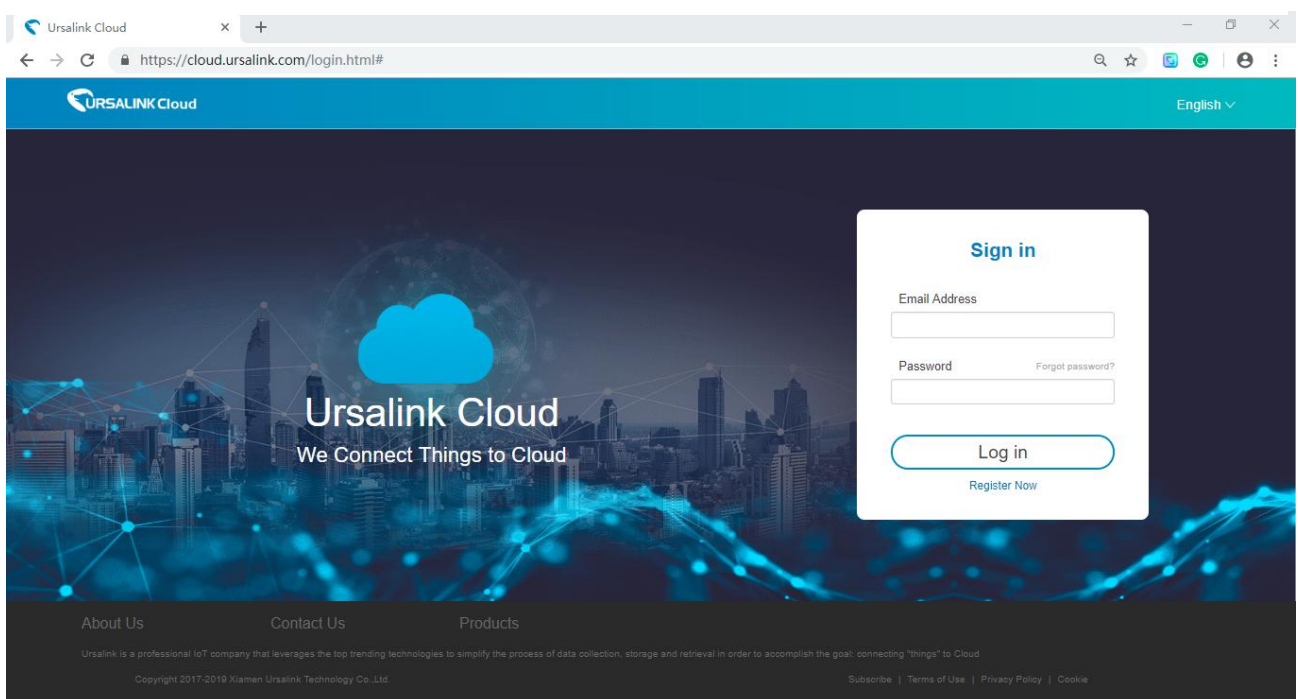
Below these fields is a 'Channel Plan Setting' section with:

- Channel Plan:** A dropdown menu set to 'CN470'.
- Channel Mask:** An empty text input field.

A 'Save & Apply' button is located at the bottom of the configuration area. On the right side, there is a 'Help' sidebar with a 'General Setting' section containing detailed explanations for the configuration options.

4.3 Ursalink Cloud Configuration

① Register an account of the Ursalink cloud



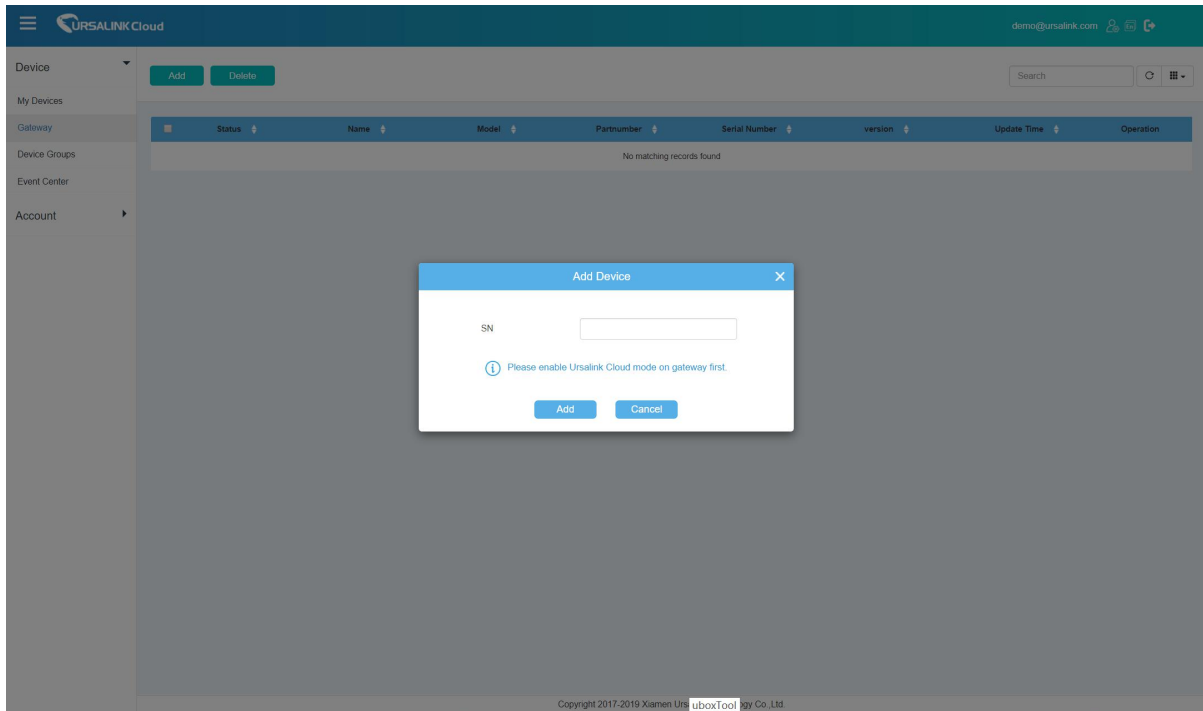
The screenshot shows the Ursalink Cloud login and registration page. The page has a dark blue header with the 'Ursalink Cloud' logo and a language selector set to 'English'. The main content area features a cityscape background with a large blue cloud icon and the text 'Ursalink Cloud We Connect Things to Cloud'. On the right side, there is a white 'Sign in' form with the following fields:

- Email Address:** A text input field.
- Password:** A text input field with a 'Forgot password?' link next to it.

Below the password field are two buttons: 'Log in' and 'Register Now'.

The footer contains links for 'About Us', 'Contact Us', and 'Products', along with a copyright notice: 'Copyright 2017-2019 Xiamen Ursalink Technology Co., Ltd.' and links for 'Subscribe', 'Terms of Use', 'Privacy Policy', and 'Cookie'.

- ② Login Ursalink Cloud and go to “Gateway/Add” and fill in the gateway SN, click add.



Device

My Devices

Gateway

Device Groups

Event Center

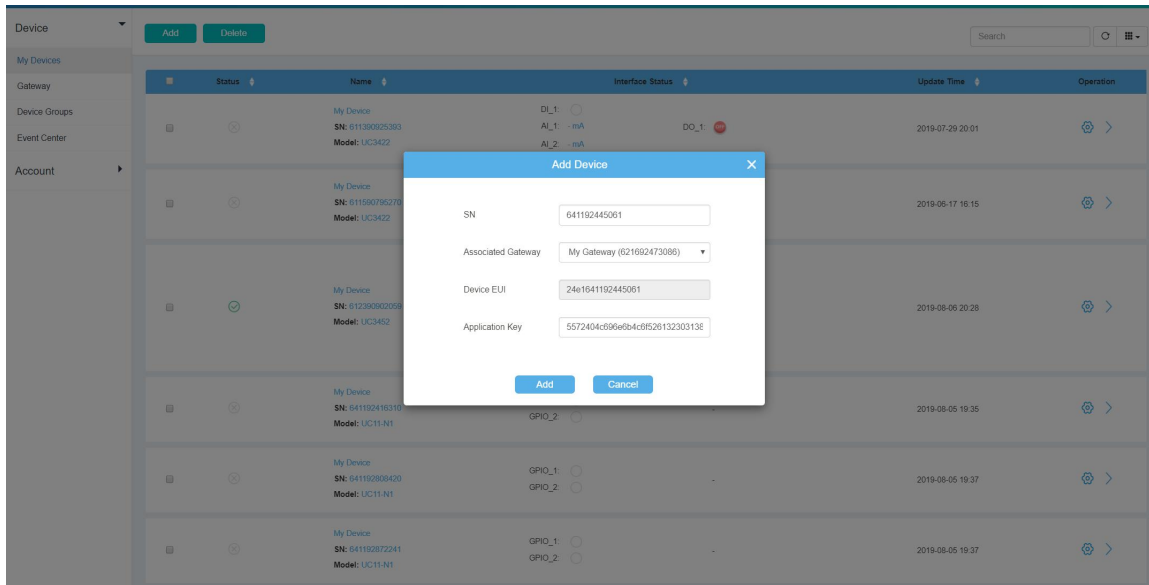
Account

AddDelete

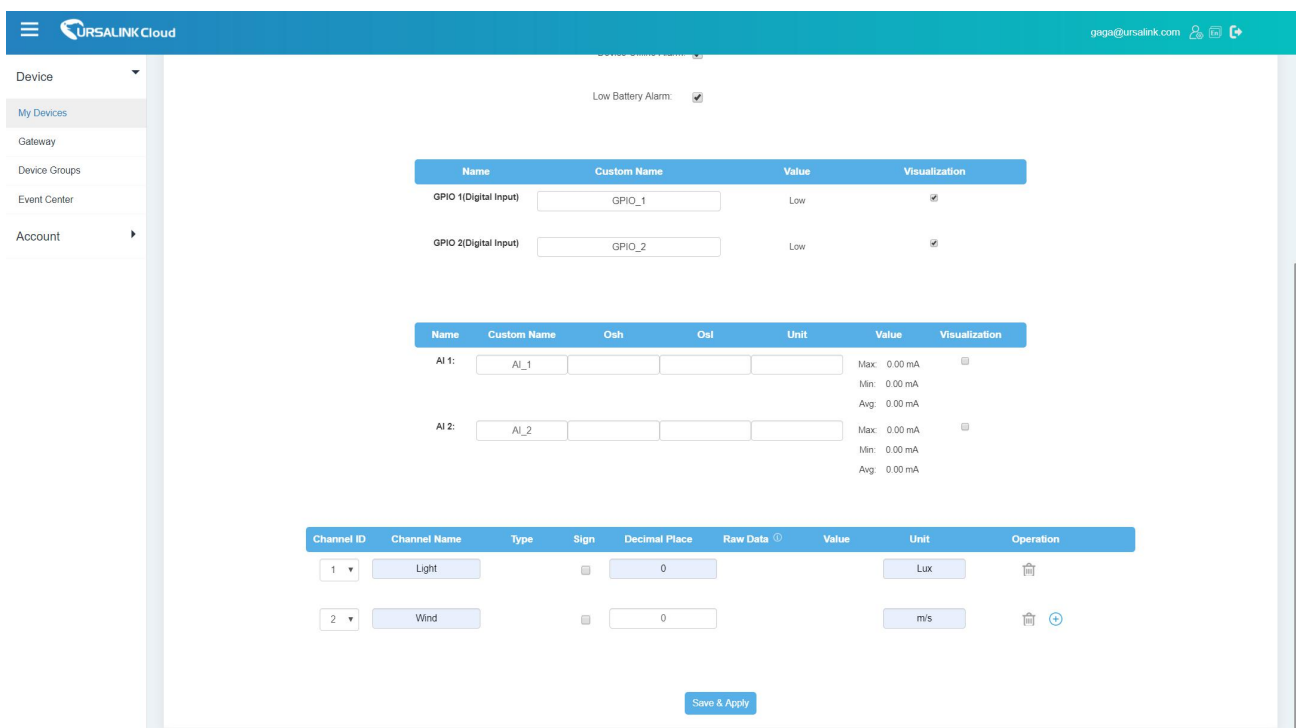
Search

	Status	Name	Model	Partnumber	Serial Number	version	Update Time	Operation
		My Gateway	UG87-L00E-W-G-EU868	L00E-W-G-EU868	621692473086	Firmware:80.0.0.24 Hardware:V2.0	2019-08-05 19:37	
		My Gateway	UG85-L00E-G-US915	L00E-G-US915	621791878976	Firmware:80.0.0.24 Hardware:V1.0	2019-08-05 19:37	
		My Gateway	UG85-L00E-G-EU868	L00E-G-EU868	621791898699	Firmware:80.0.0.20 Hardware:V1.0	2019-07-24 10:23	

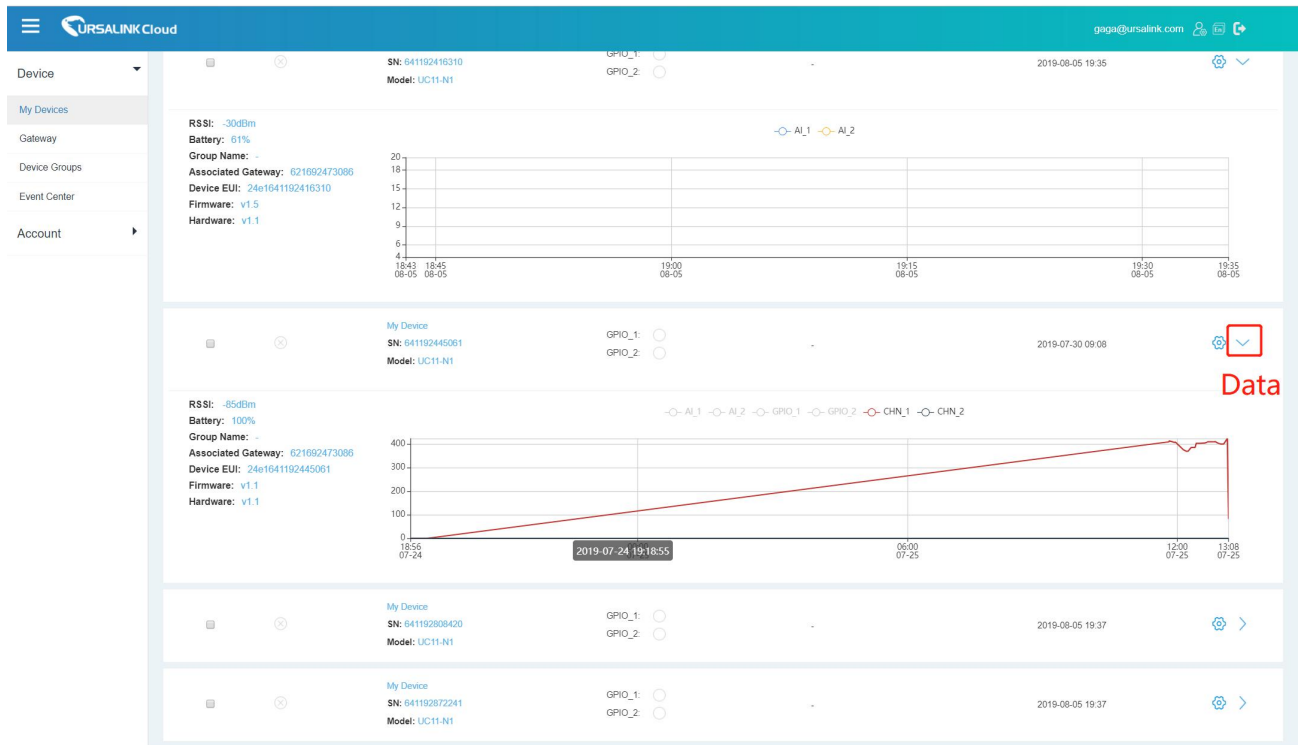
- ③ Go to “My Devices” click add. Fill in the SN of the UC11-N1 and select associated gateway.



- ④ Click  to configure the UC11-N1 from Ursalink cloud, add channel for the Modbus.
- Note:** Channel name should be same as the one configure in UC11-N1



- ⑤ Check the data of the sensors that connect with UC11-N1



Note: For More details, please refer to the UC11-N1 user guide.

[END]