



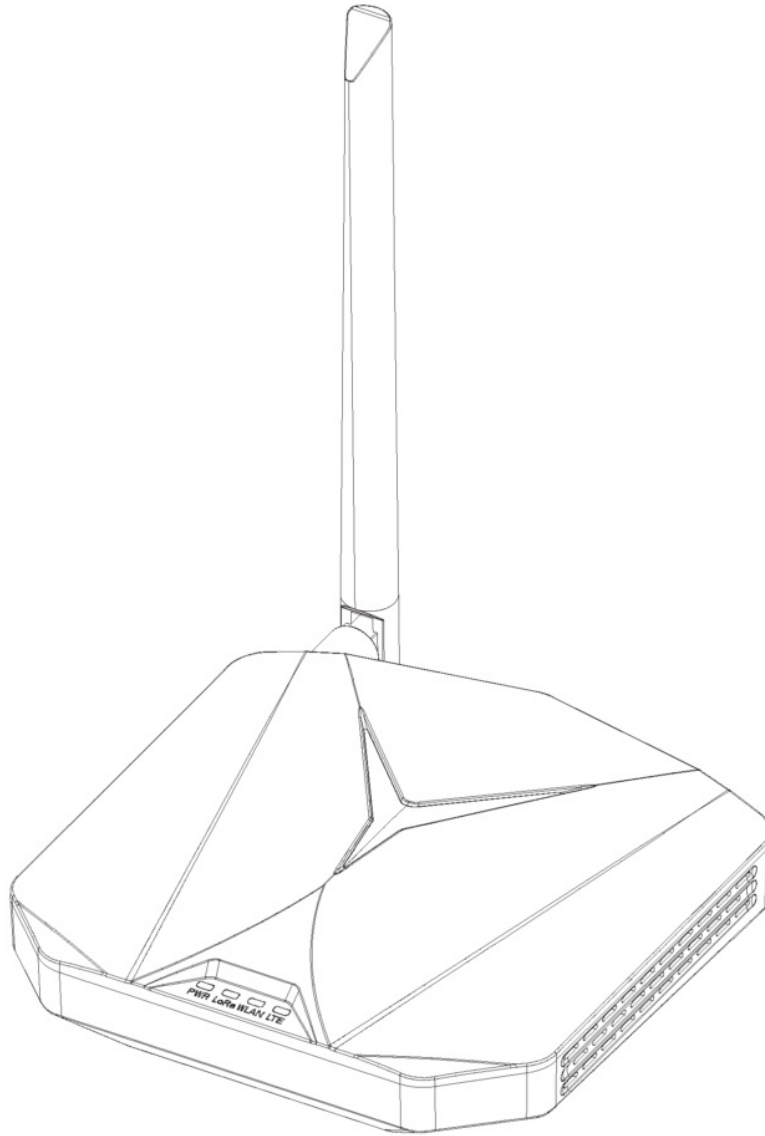
ThinkNode G1 Indoor Gateway For LoRaWAN User Manual

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ThinkNode G1 Indoor Gateway For LoRaWAN



USER MANUAL

ThinkNode-G1
Indoor Gateway For LoRaWAN

About ThinkNode-G1

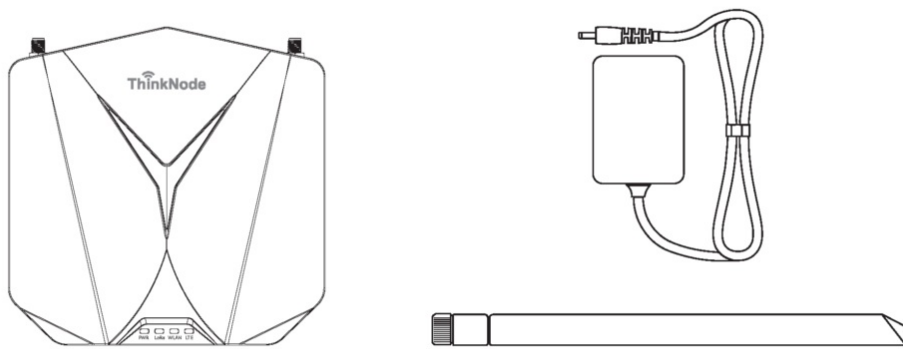
Thank you for selecting the ThinkNode-G1 for your impressive IoT project.

This LoRaWAN indoor gateway is designed to connect to a diverse range of network servers, supporting both WiFi and Ethernet connections, as well as an optional LTE module for 3G/4G cellular network bridging. Utilizing LoRa wireless technology, the G1 gateway enables long-distance data transmission at low data rates.

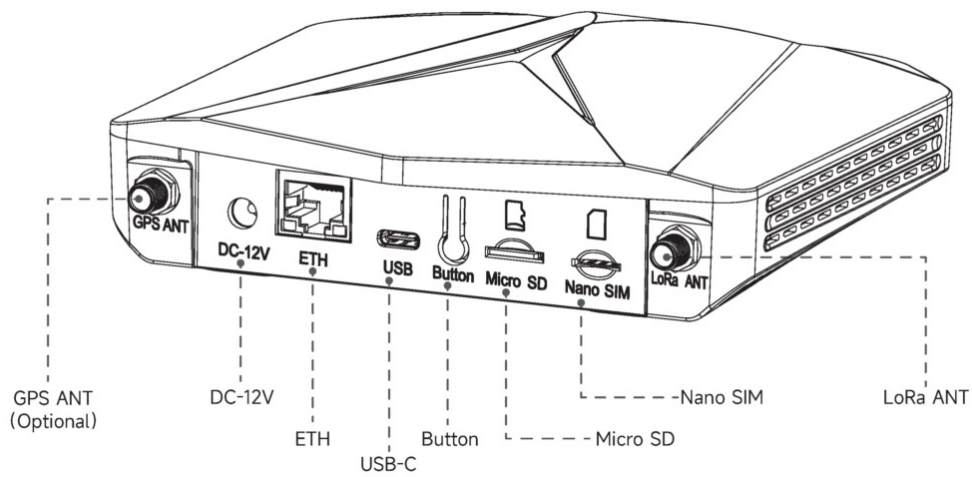
Part List

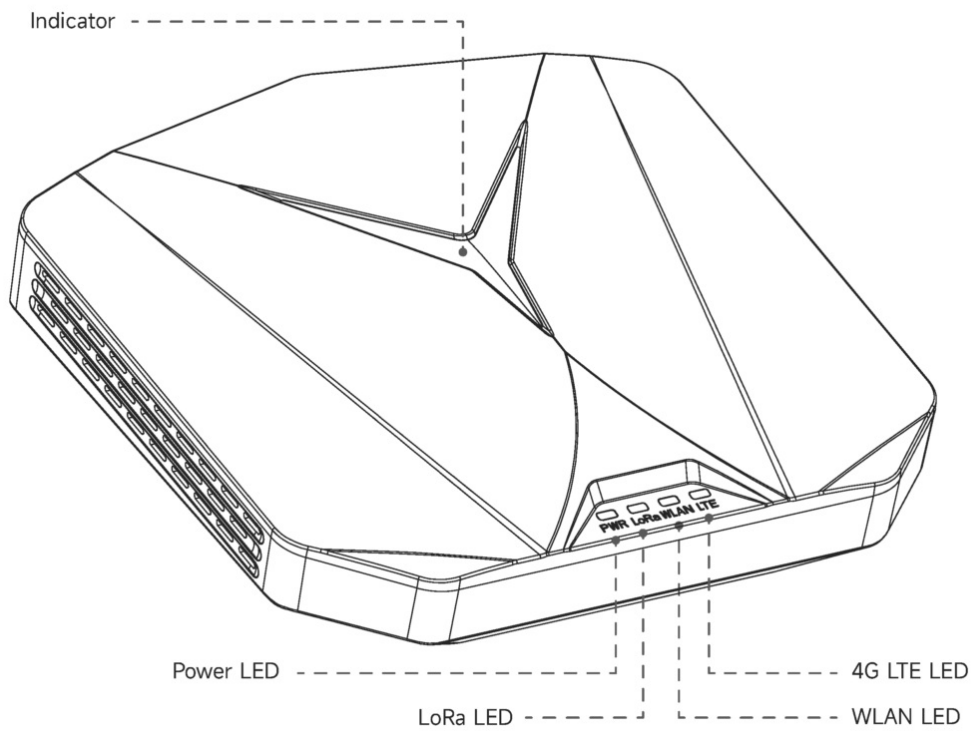
- ThinkNode-G1*1
- Power Adapter(12V-2A)*1

- LoRa Antenna(3dBi)*1



Specifications

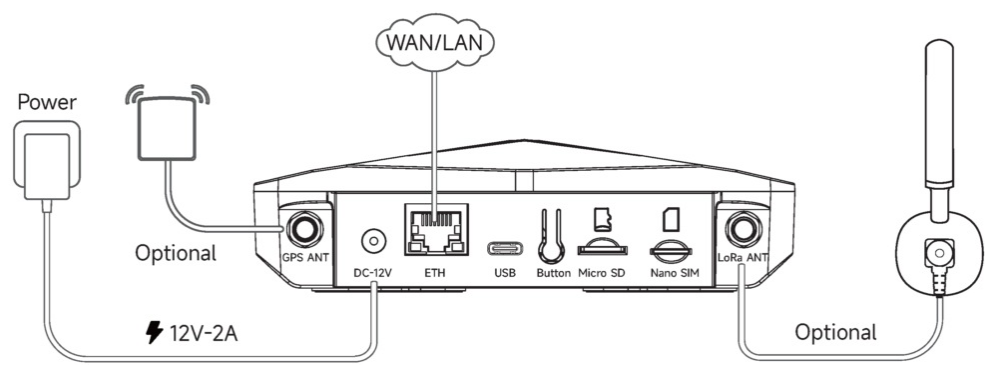


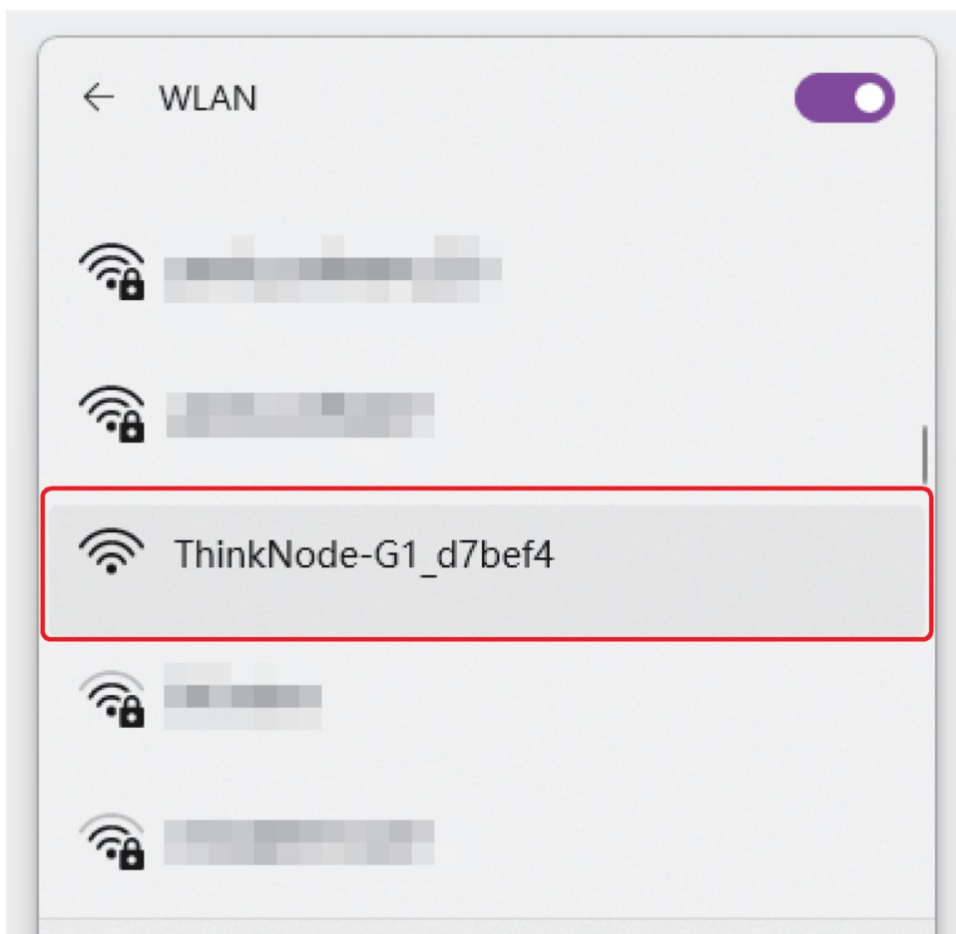
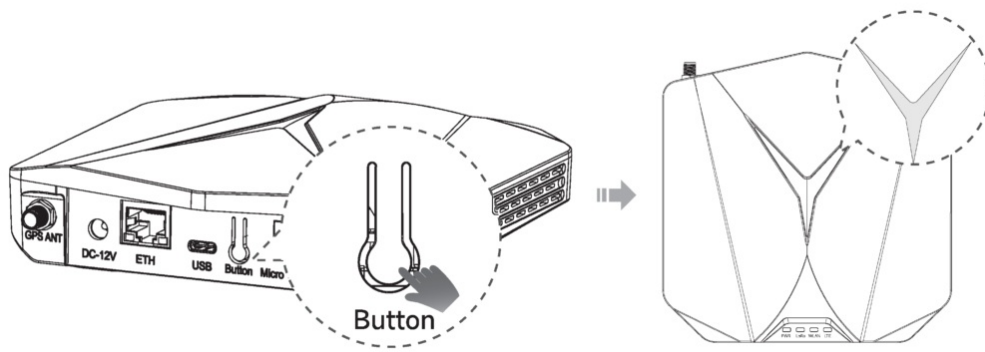


Mode		Description
Green	Solid	Operating normally, good internet connection.
	Slow Blink	Device/hotspot is starting up.
Blue	Solid	Device is ready to connect to the network and requires further configuration.
	Slow Blink	Configuration mode, will automatically exit if there is no activity in 5 minutes.
	Rapid Blink	Device reset indication, press the button for 20 seconds, the light will flash rapidly.
White	Slow Blink	Firmware update indication, do not disconnect the device from the internet.
Red	Solid	Hardware issue or internet connection failure.
White	Solid	Device currently only has factory firmware, will automatically update to the latest firmware when connected to the internet.

Mode		Description
PWR	On	Device powered on.
	Off	Not connected to power.
LoRa	On	Connected to LoRa wireless network.
	Off	Not connected.
WLAN	On	Connected to WLAN Ethernet network.
	Off	Not connected.
LTE	On	Connected to 4G cellular network.
	Off	Not connected.

Mode	Description
Double Click	Software reboot.
Press for 5s	Slow blue light blink, entering configuration mode, will automatically exit if there is no activity in 5 minutes.
Press for 20s	Rapid blue light flash, triggering factory reset and software reboot.







Username: root Password: root



http://192.168.1.1



Authorization Required

Username

Password



Login



Status System Network LoRaWAN Logout

Status

System

Hostname	
Model	ThinkNode-G1
Architecture	armv7
Target Platform	ramips/mt76x8
Firmware Version	ThinkNode-G1 1.0 2024-10-07-151955 / LuCI branch git-24.080.57117-0468eeb
Kernel Version	5.4.238
Local Time	2024-04-09 10:09:49

Interfaces

Wireless

Switch

DHCP and DNS

Hostnames

Static Routes

Firewall

Diagnostics



Status System Network LoRaWAN Logout

REFRESHING

Wireless Overview

radio0

MediaTek MT76x8 802.11bgn
Channel: 6 (2.437 GHz) | Bitrate: 144.4 Mbit/s

Restart Scan Add

-32 dBm

SSID: ThinkNode-G1_d7bef4 | Mode: Master
BSSID: 40:D6:3C:D7:BE:F4 | Encryption: None

Disable Edit Remove

disabled

SSID: yanfa1 | Mode: Client
Interface has 7 pending changes

Disable Edit Remove

ELCROW

StatusSystemNetworkLoRaWANLogout

REFRESHING

Wireless Overview

radio0

MediaTek MT76x8 802.11bgn
Channel: 6 (2.437 GHz) | Bitrate: 144.4 Mbit/s

RestartScanAdd

-32 dBm

SSID: ThinkNode-G1_d7bef4 | Mode: Master
BSSID: 40:D6:3C:D7:BE:F4 | Encryption: None

DisableEditRemove

Associated Stations

Network	MAC address	Host	Signal / Noise	RX Rate / TX Rate
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ELCROW

StatusSystemNetworkLoRaWANLogout

REFRESHINGUNSAVED CHANGES: 10

Join Network: Wireless Scan

Signal	SSID	Channel	Mode	BSSID	Encryption	
-24 dBm	papier	1	Master		WPA2 PSK (CCMP)	Join Network
-13 dBm	yanfa1	2	Master		mixed WPA/WPA2 PSK (TKIP, CCMP)	Join Network
-45 dBm	CMCC-dDgb	8	Master		mixed WPA/WPA2 PSK (CCMP)	Join Network
-45 dBm	CMCC-Trkq	11	Master		mixed WPA/WPA2 PSK (CCMP)	Join Network
-45 dBm	hidden	11	Master		mixed WPA/WPA2 PSK (CCMP)	Join Network

Joining Network: "yanfa1"

Replace wireless configuration

Check this option to delete the existing networks from this radio.

☐

Name of the new network

wlan

The allowed characters are: a-z, A-Z, 0-9 and _

WPA passphrase

LOVEThinkNodeG1

Specify the secret encryption key here.

Lock to BSSID

☐

Instead of joining any network with a matching SSID, only connect to the BSSID 40:D6:3C:D7:BE:F4

Create / Assign firewall-zone

wanwanwan6

Choose the firewall zone you want to assign to this interface. Select unspecified to remove the interface from the associated zone or fill out the custom field to define a new zone and attach the interface to it.

Cancel

Submit

ELCROW

StatusSystemNetworkLoRaWANLogout


REFRESHINGUNSAVED CHANGES: 30

LoRa Gateway

Status

System

Hostname	ThinkNode-G1
Model	HILINK HLK-7628N
Architecture	MediaTek MT7628AN ver:1 eco.2

Status ▾System ▾Network ▾LoRaWAN ▾Logout

UNSAVED CHANGES: 30

LoRa Gateway

Here you can configure the LoRa gateway

Global Parameters

Lora Interface

WIFI

Frequency plan

ETH

WIFI

LTE

Lora Mode

Packet Forwarder

Gateway Parameters

LoRa Gateway

Here you can configure the LoRa gateway

Global Parameters

Lora Interface

WIFI

Frequency plan

US915

EU868

US915

Lora Mode

US915

Gateway Parameters

General SettingsForward RulesBasics Station

Gateway ID

40d63cfffed5ed23

?

 Gateway ID size must be 16

Server Address

eu1.cloud.thethings.network

Server Port (Down)

1700

Keep Alive Interval

10

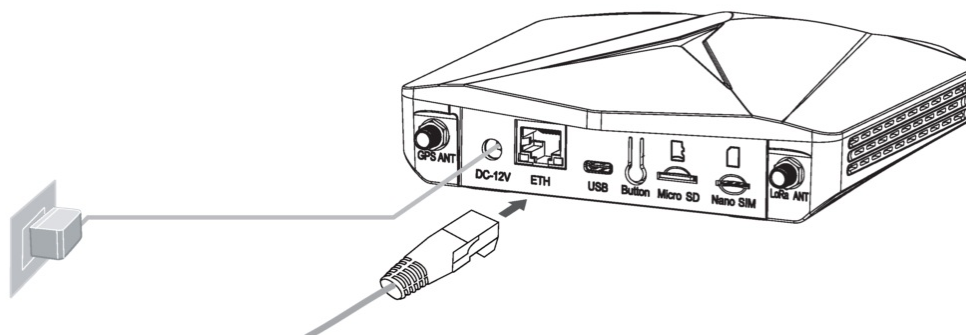
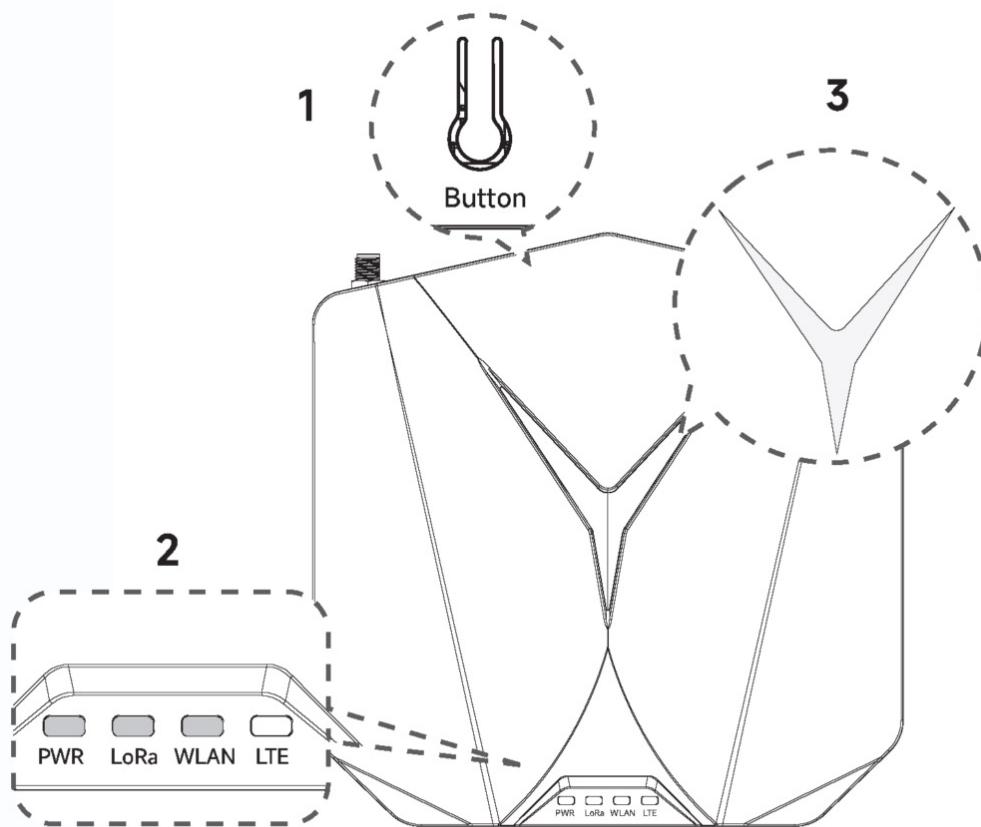
Push Timeout

100

Save & Apply

Save

Reset

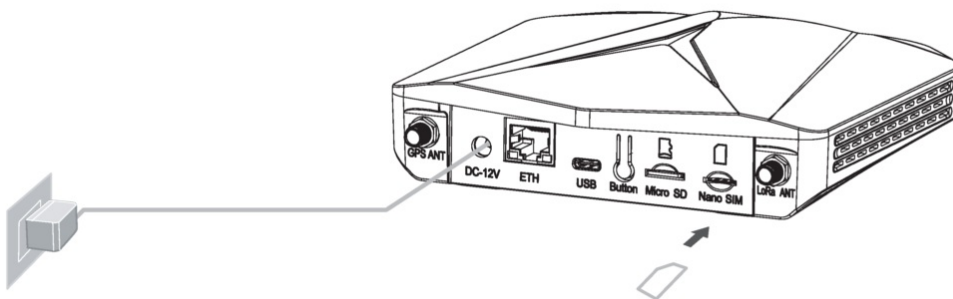


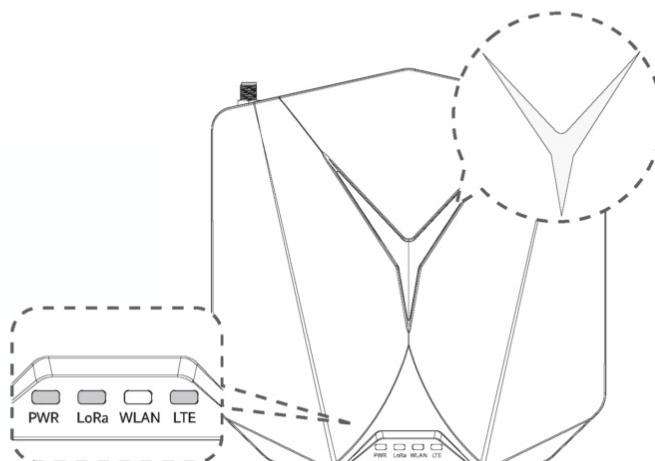
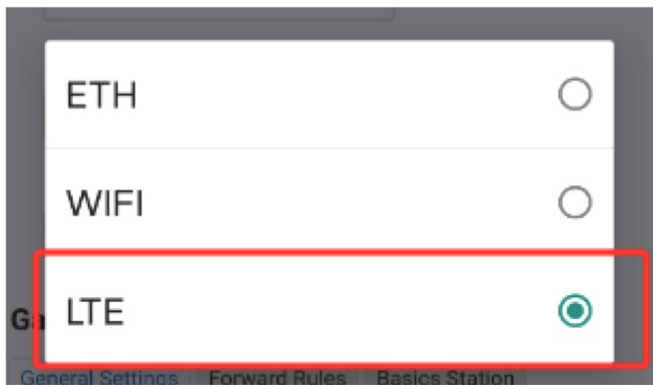
LoRa Gateway

Here you can configure the LoRa gateway

Global Parameters

Lora Interface	ETH
Frequency plan	ETH
	WIFI
	LTE
Lora Mode	Packet Forwarder





Specifications

- Model: ThinkNode-G1
- Type: Indoor Gateway for LoRaWAN
- Supported Networks: WiFi, Ethernet, LTE (optional)
- Wireless Technology: LoRa
- Data Transmission: Long-distance at low data rates

Product Usage Instructions

Step 1: Set up ThinkNode-G1

1. Connect the antenna, power adapter, and Ethernet cable (optional) to the gateway.
2. Turn on the power. The power LED will turn green.
3. After 15 seconds, the top indicator will flash green, indicating startup.
4. The status indicator will turn solid green if connected via Ethernet or blue while awaiting Wi-Fi setup.

Step 2: ThinkNode-G1 Internet Connection Configuration

(1) Setting up WiFi Connection Mode

Press and hold the gateway's setup button for 5 seconds to enter configuration mode. A slow blue flash indicates setup mode is active.

(2) Gateway ETH Internet Connection Configuration

Connect to the gateway's AP (Access Point) and log in to the Luci network configuration interface using a mobile device or computer/laptop with a wireless network interface, connecting to the gateway AP- ThinkNode-G1_XXXXXX.

(3) Gateway LTE (4G) Internet Connection Configuration

Additional instructions for configuring the LTE connection can be found in the user manual.

FAQ

Q: How do I reset the ThinkNode-G1 to factory settings?


A: Press and hold the gateway's setup button for 20 seconds to trigger a factory reset and software reboot.

Q: What do the different indicator lights on the ThinkNode-G1 mean?

A: The green light indicates normal operation and good internet connection, while the blue light signifies configuration mode.

Refer to the user manual for detailed explanations of other indicator light statuses.

Documents / Resources

	ThinkNode G1 Indoor Gateway For LoRaWAN [pdf] User Manual G1, G1 Indoor Gateway For LoRaWAN, Indoor Gateway For LoRaWAN, Gateway For LoRaWAN, LoRaWAN
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References

- [ThinkNode G1 Indoor 8 Channels LoRaWAN Gateway Powered By SX1302 Chip](#)
- [User Manual](#)

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