

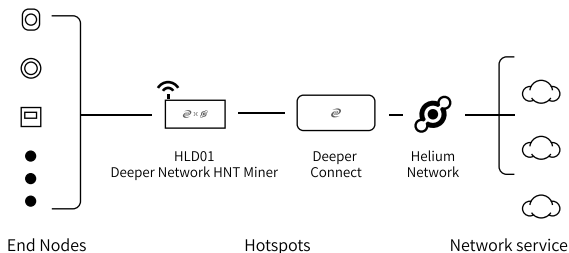
Deeper Network HNT Miner Helium LoRaWAN Dongle

Product Description

Deeper Network HNT Miner, Model HLD01 is an IoT device from Deeper Network that is compatible with Helium LongFi, combining the wireless LongFi protocol and Helium blockchain technology.

HLD01 operates with ultra-low power consumption (about 5W), the signal can cover more than 5 kilometers in an open environment, and it can be connected to thousands of LongFi terminal nodes detected within its range.

As a transmitting and receiving terminal, HLD01 must be equipped with Deeper Connect products. HLD01 sends the received LongFi terminal data packet to Deeper Connect via a USB connection, then to the Helium Miner via the Deeper Connect secure network. The Helium Miner will forward the data packet to the Helium Network Server, then the Network Server will push the packet to the application platform interface.



Instructions

1. Download the mobile APP

Android phone users can log in to the Google Play store, and iPhone users can log in to the App Store to download and install the Helium APP.



Helium Hotspot 4+
App for HNT and Hotspots
Helium, Inc.
★★★★ 3.4 • 267 Ratings
Free



Helium Hotspot
Helium Systems Inc Productivity
Everyone
You don't have any devices
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2. Deeper Connect device set-up

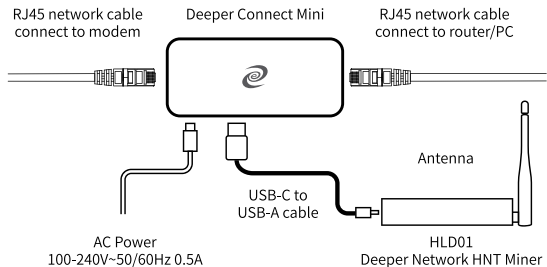
There are 3 ways to connect to the Deeper Connect devices. Please refer to the Deeper Connect instructions for details.

3. Network Connection Configuration

3.1 Device assembly

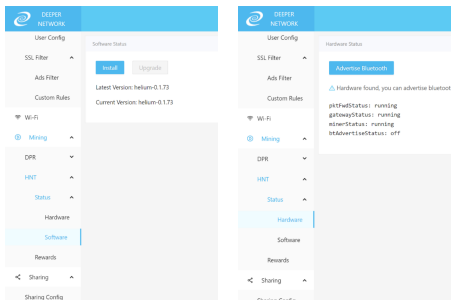
Unbox the package and take out the HLD01, a USB cable and an antenna, screw the SMA Female end of the antenna into the LongFi PR-SMA-K connector and tighten it. Use the USB cable to connect the HLD01 to the USB port of the Deeper Connect device, then the red light will turn on.

Note: For the Deeper Connect Mini with a Type-C port you will need a USBC to USB A cable. This cable is included in your Deeper Network HNT Miner order package.



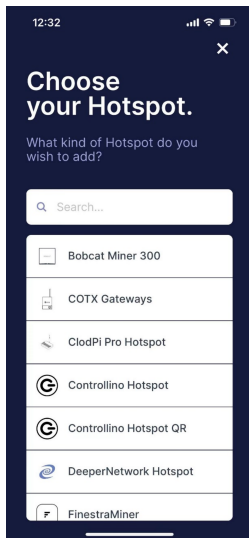
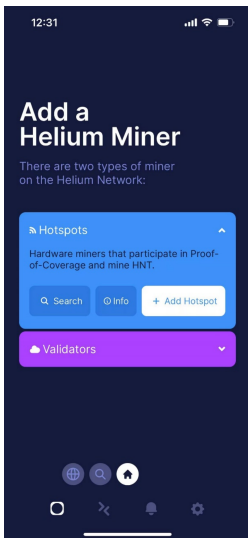
3.2 AtomOS Dashboard

Enter into the Deeper Connect dashboard (please refer to the Deeper Connect device instructions for details), find the HNT page in the navigation bar, go to the “Software” page and click “Install” , it will take about 5-20 minutes depending on the network environment. Please wait patiently for the Helium system installation to finish. After installation, the operating status of the device will be shown on the “Hardware” page. You can click “Advertise Bluetooth” to turn on Bluetooth broadcast then connect to the Helium Hotspot App on a mobile phone.

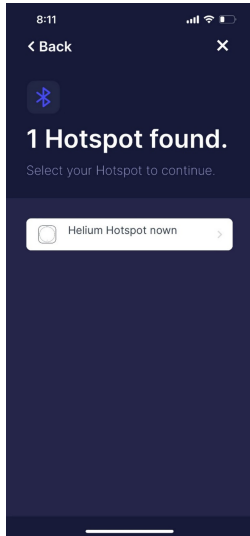
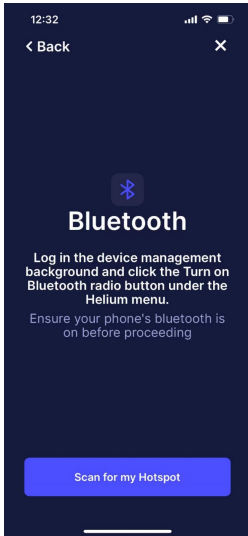


3.3 Establish App connection

Open the Helium Hotspot App on your mobile phone, create an account and finish the registration, then click "Set up Hotspot". Select "DeeperNetwork Hotspot device" then read the network configuration instructions, or you can select "Skip" to follow the instructions on the page step by step.



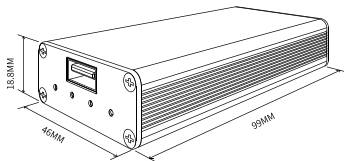
- 1) If no device is found on the search result, please click "Advertise Bluetooth" on the "Hardware" page then start scanning again. After you find the device, click the device's name to continue.



- 2) After a successful connection, follow the prompts to connect to the upstream network. Select the "Use Ethernet" connection at the bottom of the page. Now the network configuration is complete and you can click "Exit Settings".

On the "My Hotspot" page, you can check HNT earnings, nearby Hotspot users and other relevant information.

Size Description



Specifications

Model	HLD01
LongFi Specifications	
Frequency Plan	AS923/US915/AU915/EU868
Frequency Band	923MHz/915MHz/868MHz
Channel Capacity	8-channels uplink, 1-channel downlink
Operating Mode	Half-Duplex
Output Power	≤50mW
Connection Specifications	
Connection Cable	USB 2.0 power supply 5V/1A and data transmission
Antenna Connector	LongFi, RP-SMA-K
BT	BT4.0 /BLE
Button	
Physical Description	
Dimension	90*42*20MM
Chassis Type	Aluminum
Exterior	Anodized silver

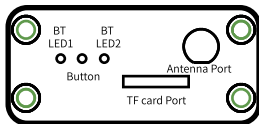
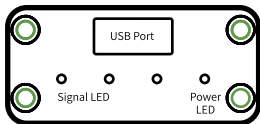
Working Environment	
Working Temperature	0° to + 60°C
Storage Temperature	-20 ° to + 85 °C
Relative Humidity	20% - 90%, non-condensing
Heat Dissipation	Aluminum Shell

LED Indicator Light Description

LEDs of different colors represent different working states of the gateway.

Indicator Color	Indicator Status	Instruction
Power Light - Red	Gateway power-on initialization status	Device boot
Semaphore - Blue * 3	The gateway is configured and operating normally.	Network connection is normal, signal strength
Bluetooth light - blue-green	Bluetooth is activated, scannable and connectable	Enable Bluetooth broadcast on HNT management page.

Interface Description



What's in the Box

Items	Description	Quantity
Device	HLD01 LoRaWAN Dongle	1
TF Card	32GB TF Card	1
Antenna	KX-860-928-11	1
Connection Cable	USB2.0 data cable	1
User Manual	Instructions	1

Precautions

- ※ The product must be handled with care during installation, and there must be no violent collisions or drops;
- ※ Try to place the device close to a window (not close to any metal mesh) or balcony, so that the LongFi antenna has a wider coverage;
- ※ The product needs to be installed on a flat wall/desktop with little dust, dry and well ventilated. Avoid a location that is humid or exposed to rain or water seepage.

Key Component Name	LongFi Antenna (1)
Model	KX-860-928-11
Specification	KX-RP-SMA-11-1
Antenna Type	External Antenna
dBi Rating	3dBi
Antenna impedance	50ohm