



# COTX X3 Intelligent IoT Gateway User Guide

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## COTX X3 Intelligent IoT Gateway



## Package Contents

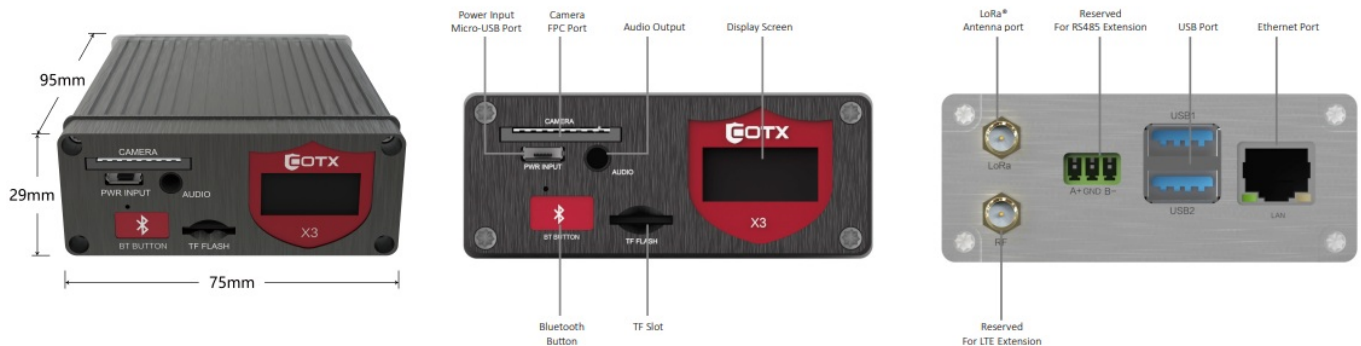
Your COTX-X3 Indoor Gateway comes with the following items:



- COTX-X3 Indoor Hotspot\*1pcs
- Power Adapter\*1pcs
- Power Cable\*1pcs
- Ethernet Cable\*1pcs
- LoRa® Antenna\*1pcs

## Size

The MCO (Maximum outline dimension) of COTX-X3 is 75 x 95 x 29 mm, as shown below:



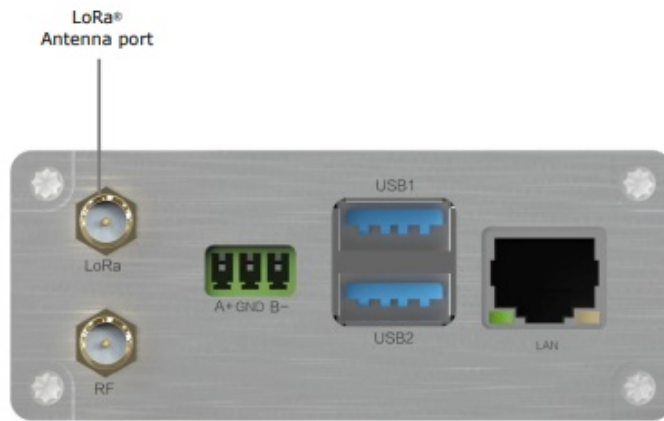
## LED and Screen Indicator Description



Type	Status	Description
LED Light	OFF	No Power
	Blink	System Start
	ON	System Operate
Display Screen	ON/OFF	Short press BT BUTTON, turn on/off the screen
	192.168.1.XX IP Address	Display unit IP address With multiple Internet options. IP displays in the order ETH 4G Wi-Fi
	4G USB Dongle	4G Internet connected 4G Internet not connected
	Bluetooth	Long press BT 5s to turn on Bluetooth Bluetooth on Bluetooth off
	Internet	Internet connected Internet not connected
	Ethernet	ETH Cable connected ETH Cable not connected
	Wi-Fi Network	Wi-Fi connected Wi-Fi not connected

## Preparing COTX-X3 Gateway

- **Step 1:** Install the LoRa antenna on the LoRa Antenna port.



- **Step 2:** Place the gateway in a proper location (e.g. near a window) to have the optimum coverage and signal reception.
- **Step 3:** For Ethernet access to WAN/Internet scenario, please connect Ethernet port on the gateway to an existing router with an Ethernet cable.



- **Step 4:** Power supply connection- plug the power adapter to a 110~220V AC power source(socket), connect the micro USB connector to the PWR INPUT port on the gateway.



After the power connection, the LED would light up and turn green when it's ready for further configuration. IP address would show on the screen for Ethernet cable connect to WAN/Internet scenario. Click the BT button and the screen will display the Ethernet IP and device status.



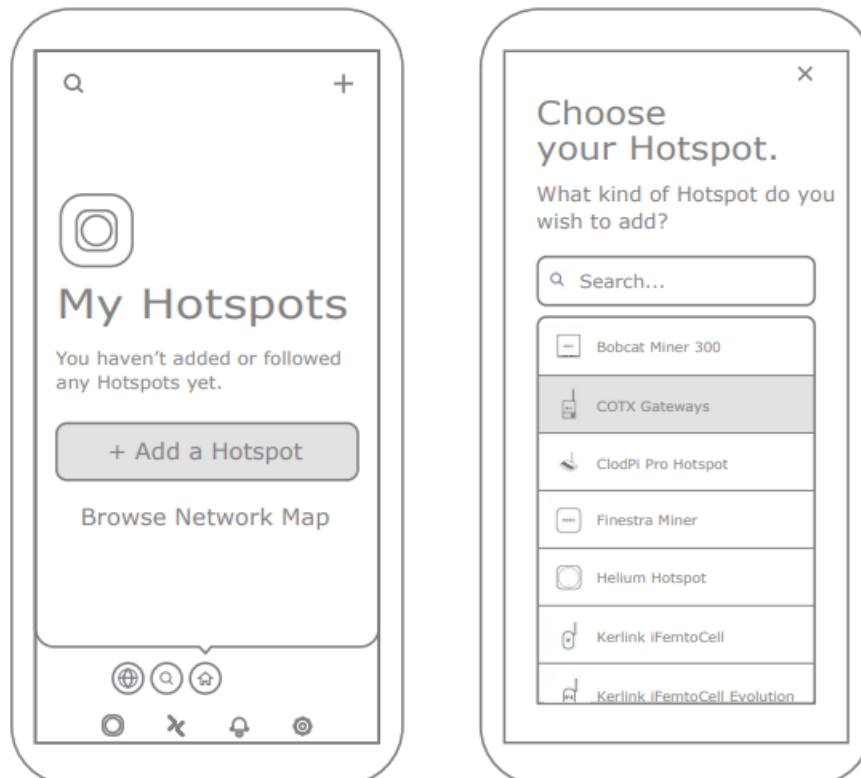
## Configuring Gateway by Helium APP

To configure the gateway, please download the Helium APP from Apple APP store or Google Play directly by searching "Helium". Please create a Helium wallet account first and then continue to the next step shown below:

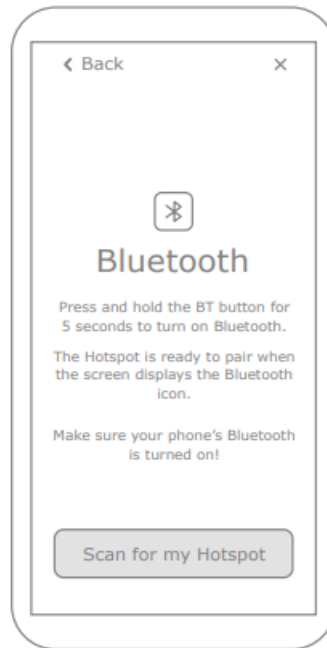
- **Step 1:** Turn on COTX Gateway's BT, so the Helium APP can detect the gateway to further configuration. Press the BT button for 5 seconds to turn on Bluetooth, the screen will indicate that the BLE status is on



- **Step 2:** Open Helium application and login
- **Step 3:** Tap "Add a Hotspot" and Gateways" from the list.



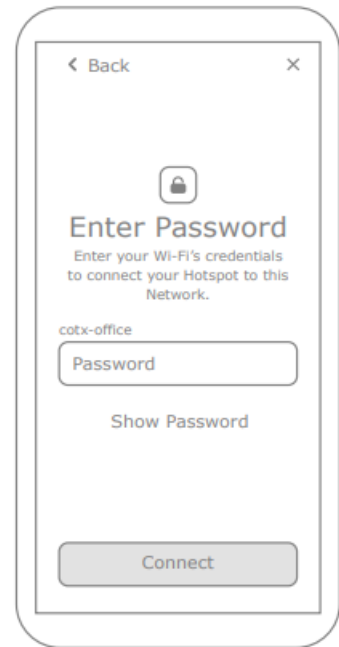
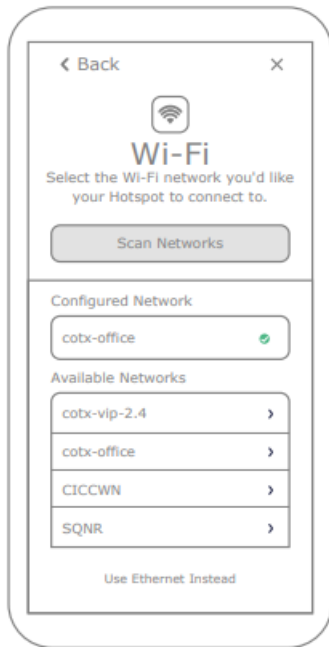
- **Step 4:** Following the App operation steps to reach below user interface, then press the BT button 5 seconds to turn on the gateway BT for pairing and then click "Scan for my Hotspot".



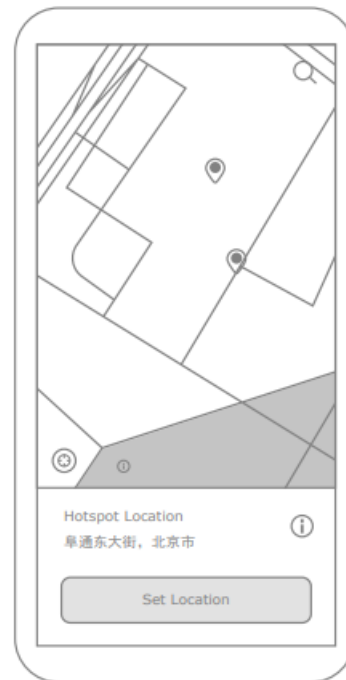
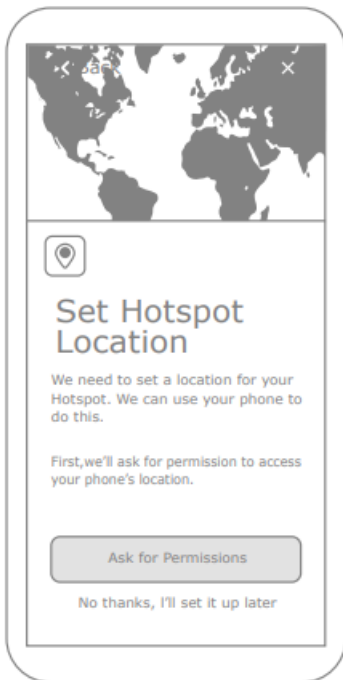
- **Step 5:** Tap the corresponding icon to enter the correct gateway in the App through matching the last 4 characters(e.g.0B:99) shown in the application with the last 4 characters of the MAC address sticker on the bottom of the gateway(e.g. XX:XX:0B:99).



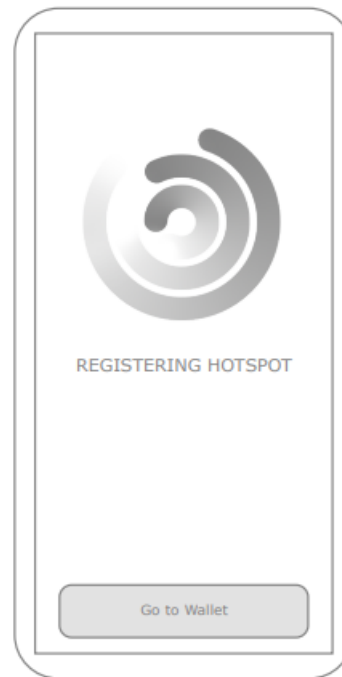
- **Step 6:** The App will show all the available Wi-Fi networks listed as below screenshot.
  - For Wi-Fi access to WAN/Internet scenario, tap on the corresponding Wi-Fi network on the App which will bring you to the following user interface. Key in the correct Wi-Fi password then tap “Connect” to access Internet.
  - For Ethernet access to WAN/Internet scenario, tap “Use Ethernet Instead” and skip to Step 7.



- **Step 7:** Follow the App's instructions to position the gateway's location.



- **Step 8:** Tap "Register Hotspots" to register the gateway in the Helium Network. It will take you approximately 15 minutes to join the Helium network. Then the whole setup process is done.





## Quick Specifications



Product Weight	203g	Fixing Way	Desktop
Operating Temperature	0°C~50°C	Power Supply	5V DC input power supply
Maximum Power Consumption	<10W	Frequency	CN470,EU433,US915, AS923, AS920, AU915,EU868, IN865, KR920
RAM	2GB LPDDR4-3200 SDRAM (4G/8G Optional)	CPU	Quad-core Cortex-A72 @1.5GHz
OS	Ubuntu20.04	Main-board	Raspberry Pi 4B
Ethernet	1* 10/100/1000M Ethernet interface (RJ-45)	Wi-Fi	2.4 / 5GHz 802.11AC
BLE	1* Bluetooth5.0	BT Button	Press and hold for 5 seconds to turn on Bluetooth.
Micro SD Card Slot	1* Micro SD card (32G capacity as standard configuration)	LoRa®Antenna	1* External LoRa antenna, RP-SMA interface
LED Light	OFF (No Power) / Blink (System Start) / On (System Operate)	LED Display Screen	IP address & the status of 4G, BLE, Internet, Ethernet and Wi-Fi

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## Documents / Resources

	<a href="#">COTX X3 Intelligent IoT Gateway</a> [pdf] User Guide X3, Intelligent IoT Gateway
	<a href="#">COTX X3 Intelligent IoT Gateway</a> [pdf] User Guide X3, Intelligent IoT Gateway, X3 Intelligent IoT Gateway

References

- [cotxnetworks.com](https://cotxnetworks.com)