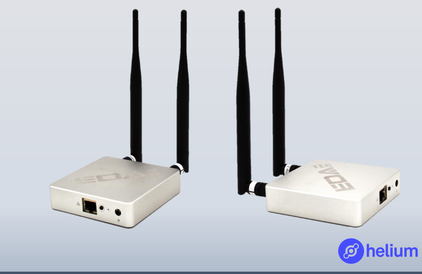
EDA-IoT Indoor Hotspot

Supporting the Growth of People-Powered-Networks



Helium LongFi™
Compatible with Helium LongFi™ to earn HNT

Wider Coverage
Semtech SX1302 + SX1250 concentrator with wide range of coverage and low-power consumption

High Performance
Quad-core, 1.5GHz ARM Cortex-A72 64-bit CPU, 2GB LPDDR4, 32GB storage

Connectivity
Gig-Ethernet, Dual-band WiFi and Bluetooth 5.0 with external antenna

Frequency Plans
model 868 MHz (EU868, RU864)
model 915 MHz (US915, AS923-1/2/3, AU915)

Multi Antenna Options
Standard 2.5dBi antenna
Optional 3dBi / 5dBi / 8dBi antenna

Remote Management
Easily manage with Helium app on iOS and Android
Managing & diagnosing from Remote Access Dashboard in LAN

Self Diagnostic & Repair
OTA support enable automatic online upgrades, without any activation or monitoring operation

Silent and Efficient
Efficient, low-power design that uses as much power as a broadband router(12W)

Powered by Helium LongFi™

Helium LongFi™ is a technology architecture that combines a leading wireless technology, LoRaWAN, and the Helium Blockchain. LongFi™ is optimised for miles of range, and long battery life for IoT devices.

Remote Management and Diagnostic

- Easily manage Hotspots and tokens from the Helium official mobile app
- Built-in Dashboard for remote management, remote diagnostic, firmware upgrades accessed in LAN
- OTA support – Automatic OTA upgrades to do self diagnostic and make the firmware always latest to miner more HNT

Optimized for Indoor Use

- Dual-Band WiFi with external antenna for better network access
- Multiple Optional LoRa antenna - 2.5dBi / 3dBi / 5dBi / 8dBi
- Silent - A big heatsink and entire aluminum enclosure to make an efficient cooling system. No fan needed
- Low power - Uses as much power as a broadband router(12W)

Frequency Selection

The EDA-IoT Indoor Hotspot comes in 2 different frequency variants:

- 868 MHz (EU868, IN865, RU864) - this is suitable for EU, India, Russia and a variety of other countries.
- 915 MHz (US915, AU915, KR920, AS923-1/2/3) - this is suitable for USA, Australia, New Zealand and lots of countries in South America and Asia.

Packaging List

This kit comes with:

- 1x EDA-IoT Hotspot machine
- 1x Wi-Fi antenna
- 1x 2.5dBi LoRa antenna
- 1x 12V@1A universal power supply (EU, UK, US, AU)
- 1x network cable

Optional LoRa antenna:

- 3dBi | 5dBi | 8dBi

2.5dBi 3dBi 5dBi 8dBi

Ordering Code

Code	Product Description
ED-IoTHotspot-Pi4-EU	868 ~ 870 MHz (EU868, IN865, RU864)
ED-IoTHotspot-Pi4-US	902 ~ 928 MHz (US915, AU915, KR920, AS923-1/2/3)

Specification

Feature	Parameters
CPU	Boradcom BCM2711 quad-core, ARM Cortex-A72(ARM v8), 1.5GHz, 64-bit CPU
RAM	LPDDR4-3200, 2GB
Storage	32GB micro SDCard
Ethernet	1x 10 / 100 / 1000M Ethernet
WiFi / Bluetooth	2.4G / 5.8G Dual-band WiFi, Bluetooth 5.0
LoRa Concentrator	Semtech SX1302 + SX1250
Security	Built-in ATECC608A crypto device
Frequency Band Support	868 ~ 870 MHz (EU868, IN865, RU864) 902 ~ 928 MHz (US915, AU915, KR920, AS923-1/2/3)
Sensitivity	-125dBm @125KHz/SF7 -139dBm @125KHz/SF12
TX Power	Up to 25dBm
Antenna	1x WiFi / BT external Antenna 1x 2.5dBi LoRa Antenna Optional 3dBi / 5dBi / 8dBi LoRa Antenna
LED Indicator	1x RGB LED
Button	1x Button for Hotspot Configuration
Power In	DC 7.5 V ~ 18V
Operating Temperature	0 ° C to 50 ° C
Relative Humidity	0% - 90%
Heat Dissipation	Aluminum enclosure with heatsink
Dimension	95mm(L) x 95mm(W) x 26mm(H)
Certification	CE / FCC
Helium Official App Support	Yes
Remote Management Dashboard	Yes, Dashboard developed by EDATEC
OTA Support	Yes

Contact Information

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About EDATEC

EDA Technology Co.,Ltd is located in Shanghai, it is one of Raspberry Pi's Global Design Partners. Our vision is to offer the hardware solutions for IoT, Industrial Control, Automation, Green Energy & Artificial Intelligence solutions based on Raspberry Pi Technology platform.
We provide the standard hardware solution, custom design & manufacturing services that accelerate the electronic product development and time to market.